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ASSESSMENT REPORT

describing

DIAMOND DRILLING, SOIL AND ROCK GEOCHEMISTRY, BASELINE WATER QUALITY DATA, AND PRELIMINARY ECONOMIC ASSESSMENT

at the

KLAZA PROPERTY

Field work conducted between June 18 and October 24, 2020

Klaza, Dic, BBB, Etzel, Lone, Jon-Wedge, VG, Vic,
BBB, Bull, D, J. Bill, JBF, Eagle, Dade, Desk, Wedge,
JCS, Krast, Nor, Ox, Queen, Rat, Sked, and Val Claims

NTS 115I/3 and 115I/4
Latitude 62°08´N; Longitude 137°17´W
Whitehorse Mining District, Yukon

prepared by

Archer, Cathro & Associates (1981) Limited

for

ROCKHAVEN RESOURCES LTD.

by

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INTRODUCTION

The Klaza property lies within the Mount Nansen Gold Camp (MNGC), part of the Dawson Range Gold Belt (DRGB), in southwestern Yukon (Figure 1). It hosts several areas of gold-silver±lead±zinc mineralization, the best explored of which is an extensive system of subparallel vein and breccia zones, collectively called the Klaza Vein System (KVS). The KVS remains open to extension in all directions and to depth. Copper-molybdenum-gold porphyry mineralization and vein mineralization outside of the KVS on the property have seen little systematic exploration, but are attractive exploration targets.

The property is 100 % owned by Rockhaven Resources Ltd. It comprises 1,478 mineral claims and covers an area of 28,640 hectares (286.4 km²). For the purpose of this report, the property has been subdivided into six Work Areas in order to better describe historical exploration activities. Figure 3 shows the boundaries of the Work Areas, while Table 1 lists the claim groups within each Work Area.

Table 1: Work Area Claim Groups

Work Area	Claim Groups	Area (km^2)
1	BBB	78.5
2	Dic, Eagle, Etzel, JCS, Klaza, Tawa, VG, Vic, Lone and Wedge	117.0
3	Dade and Krast	21.0
4	Queen and Val	25.2
5	Nor	13.2
6	Bull, D, Desk, J. Bill, JBF, Jon-Wedge, Ox, Rat, and Sked	31.5

On July 13, 2020, Rockhaven announced an updated preliminary economic analysis (PEA) for the KVS.

From June 18 to October 24, 2020, Rockhaven conducted a property wide claim survey, soil geochemical sampling and a 6042.31 m diamond drilling program focused on assessing new, previously undrilled targets. Results from the 2020 work program will be used to plan additional drill campaigns with the goal of expanding mineral resources on the Property.

Archer, Cathro & Associates (1981) Limited (Archer Cathro) managed the exploration program. The authors participated in and supervised the program. Their Statements of Qualifications are located in Appendix I. A Statement of Expenditures is located in Appendix II.

LOCATION, CLAIM DATA AND ACCESS

The property is located in southwestern Yukon at latitude 62°08′ north and longitude 137°17′ west on NTS 115I/3 and 115I/4. It comprises 1,478 contiguous mineral claims, listed in Table 2. The claims are registered with the Whitehorse Mining Recorder in the names of Rockhaven or Archer Cathro, which holds them in trust for Rockhaven. A total of 132 claims (Dic, Eagle,

Etzel, VG, Vic, J. Bill, Jon-Wedge, Rat, Wedge, and Bull) are subject to a 1.5% Net Smelter Return (NSR) royalty payable to J. Dickson. The Desk claims are subject to two royalty agreements, each entailing a 1% NSR royalty on precious metals (total 2%) and 1/2% NSR royalty on other metals (total 1%), which are payable to R. Hulstein and the estate of R. Stroshein. The other 1,346 claims are not subject to any underlying royalties. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figures 2A and 2B.

Table 2: Claim Data

Claim Name	Claim Number	Grant Number	Expiry Date
BBB	1-96	YD56331- YD56426	Apr 15, 2039
	97-152	YD58527- YD58582	Apr 15, 2039
	153-172	YD62853- YD62872	Apr 15, 2039
	173-255	YD113413- YD113495	Apr 15, 2039
	256-384	YE60326- YE60454	Apr 15, 2039
BULL	1-2(1)	YA81420- YA81421	Dec 01, 2052
	12(1)	YA86291	Feb 29, 2044
	14(1)	YA86293	Feb 29, 2044
	16-20(1)	YA86295- YA86299	Feb 28, 2043
	21-28(1)	YA86300- YA86307	Feb 28, 2038
D	1-2	YB57373- YB57374	Jan 20, 2038
	3-4	YB57375- YB57376	Jan 20, 2046
DADE	1-16	YD07685- YD07700	Mar 23, 2043
	17-54	YD108507- YD108544	Mar 23, 2040
	77-90	YD108567- YD108580	Mar 23, 2036
	91-96	YC97716- YC97721	Mar 23, 2041
	97-106	YD07248- YD07257	Mar 23, 2037
DESK	1-6	YC47461- YC47466	Mar 23, 2036
DIC	1-7(1)	YA93470- YA93476	Jan 11, 2049
	101-106(1)	YB35470- YB35475	Jan 11, 2048
EAGLE	1-12(1)	YB35415- YB35426	Jan 11, 2048
ETZEL	1-12(1)	YA86336- YA86347	Dec 01, 2056
	13-17(1)	YA86348- YA86352	Dec 01, 2055
	18-20(1)	YA86353- YA86355	Dec 01, 2056
	21-28(1)	YA86356- YA86363	Dec 01, 2055
	29-32(1)	YA86364- YA86367	Dec 01, 2056
	33(1)	YA86368	Dec 01, 2052
	34(1)	YA86369	Dec 01, 2056
	35-44(1)	YA86370- YA86379	Dec 01, 2053
	45-50(1)	YA86380- YA86385	Dec 01, 2055
J. BILL #	1-2(1)	YA78049- YA78050	Feb 28, 2038
	3-4(1)	YA78051- YA78052	Feb 28, 2039
	5-8(1)	YA78053- YA78056	Feb 28, 2038
	9-12	YA78057- YA78060	Feb 02, 2038
	13(1)	YA78061	Feb 02, 2046
	14(1)	YA78062	Feb 02, 2050

	15-16[(1)]	YA78063- YA78064	Feb 02, 2046
	17-24[(1)]	YA78065- YA78072	Feb 02, 2038
	25-28	YA78073- YA78076	Feb 28, 2038
	29-30[(1)]	YA78077- YA78078	Feb 28, 2046
	31-32[(1)]	YA78079- YA78080	Feb 28, 2050
JBF	6	YB36958	Dec 01, 2044
	10	YB54543	Dec 05, 2045
JCS	1-3	YC25916- YC25918	Dec 01, 2040
JON-WEDGE	1[(1)]	YB35895	Dec 01, 2046
	2[(1)]	YB35896	Dec 01, 2044
	3[(1)]	YB35897	Dec 01, 2036
	4[(1)]	YB35898	Dec 01, 2037
	5-6[(1)]	YB35899- YB35900	Dec 01, 2036
KLAZA	1-17	YC37984- YC38000	Jan 11, 2052
	18-24	YC39051- YC39057	Jan 11, 2052
	25-40	YD09205- YD09220	Jan 07, 2052
	43-64	YD09223- YD09244	Jan 07, 2048
	68-129	YD07149- YD07210	Jan 11, 2052
	133-166	YD07214- YD07247	Jan 11, 2052
	167-308	YD119737- YD119878	Jan 11, 2048
	309	YD110502	Jan 11, 2048
	310-311	YC97706- YC97707	Jan 11, 2049
	314-316	YC97722- YC97724	Jan 11, 2049
	317-319	YC99801- YC99803	Jan 11, 2043
	320-357	YE66241- YE66278	Jan 11, 2040
KLAZA 65F	65F-66F	YC99541- YC99542	Jan 11, 2052
KRAST	1-32	YD74101- YD74070	Jan 11, 2036
LONE	1-161	YF59161- YF59321	Jan 11, 2031
NOR	1-74	YE60651- YE60724	Apr 24, 2036
OX	1-20[(1)]	YA86386- YA86405	Dec 20, 2036
QUEEN	1-121	YE60731- YE60851	Apr 24, 2036
RAT	1-8[(1)]	YA81428- YA81435	Feb 28, 2038
	9-24[(1)]	YA81436- YA81451	Feb 28, 2039
	25-40[(1)]	YA81452- YA81467	Feb 28, 2038
SKED	1-30	YD07655- YD07684	Mar 23, 2038
	31-36	YC99722- YC99727	Mar 23, 2036
VAL	1-9	YC25903- YC25911	Feb 24, 2042
	10-15	YE85801- YE85806	Feb 24, 2042
VG	1-4[(1)]	YA86406- YA86409	Dec 01, 2053
	5-8[(1)]	YA86410- YA86413	Dec 01, 2045
VIC	2[(1)]	YA86309	Dec 01, 2055
	75[(1)]	YC19429	Dec 01, 2053
	76-78[(1)]	YC19430- YC19432	Dec 01, 2056
WEDGE	11-14[(1)]	YA82177- YA82180	Dec 01, 2045

Notes: [(1)] Dickson Royalty 1.5% NSR on all production.
[(2)] R. Hulstein and R. Stroshein Estate each have 1% NSR on precious metals and 0.5% NSR on

non-precious metals.

The property is located approximately 50 km due west of Carmacks. It can be reached from Whitehorse by driving 180 km north on Highway #2 (the Klondike Highway) to Carmacks, and then 60 km west on the Mt. Nansen Road to the site of the former Mount Nansen Mine. The Mt. Nansen Road is a gravel road maintained by the Yukon Territorial Government and is suitable for two-wheel drive vehicles. From the mine-site, the road continues approximately 14 km north to the property and active placer operations located in the Klaza River valley.

By road, the property is 250 km from Whitehorse and 420 km from the year-round tidewater port at Skagway, Alaska.

The 2020 program was conducted from a tent frame camp located within the KVS. All of the areas of exploration interest on the property can be reached by a network of four-wheel drive roads and trails that connect to the Mt. Nansen Road (Figure 4).

HISTORY

The following exploration history was mostly compiled from the Yukon Minfile Database (Deklerk, 2004) and assessment reports submitted to the Whitehorse Mining Recorder.
The MNGC hosts more than 30 epithermal and porphyry mineral occurrences, including the former Brown-McDade, Huestis and Webber mines. The property covers most of the MNGC, except for an area in the southeastern part of the camp. This area contains claims that overlie Category "A" lands of the Little Salmon/Carmacks First Nations, and a 40 km^2 region that encompasses the former Mount Nansen mill and the Brown-McDade and Huestis mines. Some of the historical exploration activities described in various Work Areas overlap areas within the claim coverage hole.

From 1964 to 1966 Peso Silver Mines Ltd. owned Mount Nansen Mines Ltd. and explored the Webber and Huestis Veins with 2,107 m of underground development and 2,226 m of diamond drilling. In 1968, Canadawide Investments Ltd. (Swiss financing) acquired control of Mount Nansen Mines and, from September 1968 to April 1969, completed 976 m of drifting on the Huestis Vein and operated a 163 tonne per day mill. Production during this period totalled 85,133 grams of gold, 2,625 grams of silver and 49,207 kg of lead. Peso Silver reopened the mine in 1975 and, during 1976, mined 7,451 tonnes of rock and milled 5,844 tonnes of ore grading approximately 10.3 g/t gold, 240.1 g/t silver, 1.0% lead and 1.0% zinc. In 1979, Peso Silver changed its name to Rex Silver Mines Ltd. and, in 1980, it transferred the Mount Nansen property to Schweizerische Gesellschaft. In 1981, the property was acquired by Nansen Mining Corporation. Nansen Mining conducted a feasibility study in 1983 before selling the property to BYG Natural Resources Inc. in 1984 (YGS Minfile 115I 065). BYG optioned the property to Chevron Minerals Ltd. in late 1985 and, from 1986 to 1988, Chevron conducted a multi-faceted exploration program that included geochemical surveys, trenching, drilling and metallurgical studies. Following this work, from 1996 to 1999, BYG preformed open pit mining at the Brown-McDade Vein. It refurbished the mill and produced approximately 1,063,107 grams of gold and 4,025,632 grams of silver (Stroshein, 2001).

Mining and milling were shut down in spring 1999 due to a violation of the water licence. BYG went into receivership in May 1999. The Government of Canada took over mine-site maintenance in July 1999 and declared the property abandoned in August of the same year. The Yukon Territorial Government accepted responsibility of the site in 2003 and later sold off mineral claims surrounding the mine-site to a private company. The mill, tailings pond and Brown-McDade and Huestis mines were administrated by the Abandoned Mines Branch until 2019, when Alexco Resources Corp. (Alexco Environmental Group) and JDS Energy and Mining Inc. entered into a joint venture (Alexco-JDS JV) to purchase the mine-site for environmental remediation purposes (Alexco Resources, 2019).

Placer exploration and mining have been conducted intermittently on a number of creeks within the MNGC since 1899. Creeks that are currently being mined are shown on Figure 4.

Between 1899 and 2015, several operators conducted exploration work on various claim groups that now lie within one or more of the Work Areas on the property. Although strong geochemical and geophysical anomalies were identified by this work, follow-up trenching and drilling has mostly produced sporadic results, in part because of physical and technological limitations. The following tables and descriptions summarize historical exploration programs conducted on each Work Area located on the Klaza property.

Table 3: Work Area 1 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1969 (Cathro and Culbert, 1969)	Dawson Range Joint Venture	BBB area	Regional exploration and geochemical sampling.	A stream sediment sample returned 10 ppm Cu and 51 ppm Pb.
1974 (Cathro, 1974)	Klotassin Joint Venture	BBB area	Prospecting and mapping.	n/a
1975 (Cathro and Culbert, 1976)	Klotassin Joint Venture	BBB area	Soil and stream sampling	Highest samples ran at 114 ppm Cu, 48 ppm Pb, and 155 ppm Zn.
1980 (Archer and Onasick, 1980)	NAT Joint Venture	BBB area	Reanalysis of over 800 geochem samples	Cluster of seven soil samples anomalous for gold.
1985	Geological Survey of Canada	BBB area	Stream and water sampling	n/a
1986 (Main, 1987)	Chevron Minerals Ltd.	Toast	Toast claims staked - some overlap with current BBB claims	n/a
1987	Big Creek	Toast	Mapping,	Highest soil sample

(Main, 1987)	Joint Venture		prospecting, soil sampling	value was 55 ppb Au.
1987 (Curley, 1987)	E. Curley	Jam	Staked Jam claims	Failed to locate the source of previous stream anomaly.
2010 (Chung, 2011)	Strategic Metals Ltd.; Wolverine Metals Ltd.	BBB 1-16	Staked BBB 1-16, geochemical sampling. Optioned claims to Wolverine Minerals Ltd., which then staked BBB 17-255.	The best sample returned 43 ppb Au, 84 ppm As, 158 ppm Cu, 192 ppm Zn, and 16 ppm Pb.
2011	Wolverine Minerals Ltd.	BBB 1-255	Geochemical sampling (1,846 soil samples), prospecting, geophysical surveys	Maximum soil sample values graded 836 ppb Au, 82 ppm As, 32.9 g/t Ag, and 186 ppm Cu.
2012 (Mac Gearailt, 2012)	Goldstrike Resources Ltd.	BBB 1-255	Prospecting and mapping southeast and east of the BBB property	High grade samples returned 116.5 ppb Au, 1.7 g/t Ag, and 479.9 ppm As.
2013 (Burrell, 2013b)	Strategic Metals Ltd.	BBB 1-255	Prospecting, mapping.	Mapped linear lows that correlated with geophysical lows.
2014 (Burrell, 2014)	Strategic Metals Ltd.	BBB 1-384	Staked BBB 256-384 claims and ran a 987 sample soil grid.	Correlation between geophysical lows and soil anomalies was poor, possibly due to thick overburden and difficulties in locating geophysical trends.

In 1969, the Dawson Range Joint Venture performed regional exploration in the Dawson Range. During that program, 18 stream sediment samples were collected from what are now the BBB claims. Those samples returned up to 10 ppm copper and 51 ppm lead with negligible molybdenum (Cathro and Culbert, 1969).

In 1974, the Klotassin Joint Venture (KJV), made up of Newconex Canadian Exploration Ltd., Marietta Resources International Ltd. and Molybdenum Corporation of America, carried out regional exploration in the Dawson Range. Work performed included 1:50,000 scale reconnaissance-style prospecting, mapping and geochemical sampling (Cathro, 1974). No samples were collected on the current BBB claims during this program.

In 1975, KJV continued its exploration with geochemical soil and stream sediment sampling. Forty-four soil samples and three stream sediment samples were collected in the area of the BBB claims. These samples were analyzed for copper, molybdenum, lead and zinc. The samples returned weakly to moderately anomalous values for copper (up to 114 ppm), lead (up to 48 ppm) and zinc (up to 155 ppm) (Cathro, 1976).

In 1980, the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd., explored the Dawson Range. Part of the NAT JV program involved reanalyses of over 5,000 previously collected geochemical sample splits for gold, silver, arsenic and lead. A total of 21 soil samples and 37 stream sediment samples were reanalyzed from the area of the BBB claims. Three stream sediment samples from one drainage returned between 110 to 150 ppb gold while samples from two other nearby drainages yielded 500 ppb and 100 ppb gold (Archer and Onasick, 1980).

In 1985, the Geological Survey of Canada (GSC) conducted a low-density stream sediment and water sampling survey on NTS map sheet 115I (Friske et al., 1985). Twelve samples were taken from ten creeks draining the area of the BBB claims. These samples returned background values for all elements of interest.

In 1986, the Toast claims were staked by Freegold Venture (Chevron Minerals Limited) to cover the source area of a 122 ppb and 767 ppb gold-in-silt anomaly discovered by the GSC. Part of the historical Toast property overlaps the southeastern part of the current BBB claim area; however, the elevated gold-in-silt samples were collected from a creek northeast of it, within Work Area 2. A small amount of work was performed by Freegold Venture, but no results were reported (Main, 1987).

In 1987, the Toast claims were optioned by the Big Creek Joint Venture (BCJV), which comprised Big Creek Resources Ltd. and Rexford Minerals Ltd. A mapping, prospecting and geochemical sampling program was performed by Archer Cathro on behalf of BCJV. Twenty-five stream sediment samples were collected, the best of which returned 55 ppb gold. Thirty-seven soil samples were also collected at 100 m spacing, with two of those samples yielding 25 ppb and 20 ppb gold. The program was unable to reproduce the anomaly discovered by the GSC, and no further work was recommended (Main, 1987). According to Mann and Slack (1996), a sample of mineralized float collected from the Toast property by a private company assayed 27.2 g/t gold and a heavy mineral concentrate yielded 14,000 ppb gold.

In 1987, independent prospector E. Curley staked the Jam claims to cover a stream sediment gold anomaly located on the southeastern edge of the current BBB claim block. Soil sampling at approximately 90 m spacings failed to identify a source for the anomaly (Curley, 1987).

In 2010, Strategic staked the BBB 1-16 claims and performed widely spaced soil and silt sampling on them. A total of 59 soil and 72 silt samples were collected for analysis. Soil sampling yielded up to 22 ppb gold and 88 ppm copper values, but returned low values for other elements. The most anomalous silt samples returned peak values of 43 ppb gold, 84 ppm arsenic, 158 ppm copper, 192 ppm zinc and 16 ppm lead. In late 2010, Strategic optioned the BBB claims to Wolverine Minerals Ltd. Wolverine subsequently expanded the claim block to

adjoin the Klaza claim group (Work Area 2) and cover the probable source area of the reported mineralized float on the old Toast property (Chung, 2011).

In 2011, Wolverine conducted geochemical sampling, prospecting and geophysical surveys on the BBB claims. Rock sampling returned low values for gold, arsenic, silver and copper. One rock sample yielded an elevated value for silver (63.5 ppm). A total of 1,846 soil samples and 52 sieved silt samples were collected. Peak values from soil sampling were 836 ppb gold, 82 ppm arsenic, 32.9 ppm silver and 186 ppm copper (Smith, 2012). Sieve silt samples returned up to 424.6 ppb gold. A 396-line kilometre helicopter-borne magnetic and radiometric survey was completed by New-Sense Geophysics Ltd. over most of Work Area 1. First Vertical Derivative evaluation of the magnetic data delineated a number of northwest-trending lows, several of which show good correlation with strongly anomalous gold-in-soil values (Smith, 2012).

In 2012, Goldstrike Resources Ltd. conducted prospecting and geological mapping in an area immediately southwest and east of the BBB claims. Rock samples returned peak values of 116.5 ppb gold, 1.7 ppm silver and 479.9 ppm arsenic. No further work was conducted by the company and the ground was allowed to lapse (Mac Gearailt, 2012).

In 2013, Strategic conducted prospecting and geological mapping on the BBB 1-255 claims.

In early August 2014, Strategic staked the BBB 256-384 claims to cover an area identified by Goldstrike in 2012. A geochemical sampling program collected 987 soil samples, including 34 hand pit samples that were dug within areas of low magnetic susceptibility. Soil samples returned background values for all elements of interest; however, results may have been subdued by the presence of thick overburden horizons (Burrell, 2014).

In 2015, Rockhaven acquired the BBB claims from Strategic as part of a large property-swap transaction.

Table 4: Work Area 2 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1937 (none)	K. Paulson	n/a	Prospecting.	Rumour of high-grade silver-lead float (Eaton, 1986).
1948	G. Dickson	n/a	Bulldozer trenching.	n/a (Eaton, 1986).
1967 (none)	J. Smith	May	Soil sampling and bulldozer trenching.	Anomalous silver and lead soil geochemistry, but no vein was intersected by trenching (Campbell and Guardia, 1969).

1968 (Parker, 1968)	Esansee Explorations Ltd.	May	Geochemical and geophysical surveys and bulldozer trenching.	Peak soil values of 8,200 ppm lead, 125 ppm silver and 800 ppm arsenic. Specimen samples of "fissure" vein cut in a bulldozer trench returned up to 34.3 g/t gold, 2,057 g/t silver, 44% lead and less than 1% zinc.
1969 (Campbell and Guardia, 1969)	Esansee Explorations Ltd.	May	Bulldozer trenching and road building.	A chip sample returned 15.09 g/t gold and 483 g/t silver over 1.83 m. A 14 km road was built from the Mount Nansen Mine to the May claims.
1971 (McClintock, 1986)	Cyprus Mines Corporation	Wedge	Mapping, geochemical sampling, geophysical survey, trenching, 6 diamond drill holes, and 1 percussion hole (1,115 m drilled).	Drill logs were submitted to the Yukon Government, but were not discussed. No other results available.
1973 (Dickinson and Lewis, 1973)	Area Exploration Company	Betty, Bun, and Crow	Percussion (283.5 m) and diamond (776.1 m) drilling.	Two percussion drill holes and three diamond drill holes were completed to test a 700 by 900 m copper-in-soil geochemical anomaly.
1975 (Aho et al., 1975)	Kerr Addison Mines Ltd.	Dic	Geological, geochemical, and geophysical surveys.	A total of 216 soil and 45 rock samples were collected for analysis and 4.0 line kilometres of magnetic and 2.8 line kilometres of VLF-EM surveys were conducted.

1980 (Saunders, 1980a and 1980b)	BRX Mining & Petroleum Corp.	Tawa	Geochemical sampling, bulldozer trenching, and diamond drilling (447.3 m in 7 holes).	Soil sampling identified northwesterly trending linear anomalies. The best interval from diamond drilling returned 8.64 g/t gold and 25.68 g/t silver over 6.0 m including 24.5 g/t gold and 50.1 g/t silver over 1.5 m (80-6).
1981 (Brownlee, 1981)	BRX Mining & Petroleum Corp.	Tawa	Electromagnetic and proton magnetometer surveys.	Both surveys highlighted coincident, northwesterly trending anomalies.
1984 (McClintock, 1986)	G. Dickson	Wedge	Staked the Wedge claims.	n/a
1985 (McClintock, 1986)	G. Dickson	Wedge	Limited trenching.	n/a
1986 (McClintock, 1986)	Pearl Resources Ltd.	Wedge	222 soil geochemical samples.	Identified several NW trending soil anomalies (Au, Ag, Pb, and Zn).
1986 (Eaton, 1986)	Chevron Minerals Ltd.	Tawa	Mapping, prospecting, bulldozer trenching and an electromagnetic survey.	Deepening historical trenches returned 5.28 g/t gold and 132.0 g/t silver over 2 m. Geophysical and geochemical anomalies extended to 1,900 and 2,000 m, respectively.
1986 (McClintock, 1986)	Pearl Resources Ltd.	Etzel	Geological mapping and geochemical sampling	Soil sampling returned gold and silver values up to 310 ppb and 54.5 ppm, respectively. The best chip sample returned 0.99 g/t gold over 1 m.

1987 (Eaton and Walls, 1987)	Chevron Minerals Ltd.	Tawa	Road building, bulldozer trenching and claim staking.	Trench T-11 at the Klaza Zone returned 4.22 g/t gold and 47.3 g/t silver over 8.0 m including 4.27 g/t gold and 86.7 g/t silver over 1.0 m. Trenching at the BRX Zone intersected 3.12 g/t gold and 46.3 g/t silver over 7.0 m including 6.99 g/t gold and 41.1 g/t silver over 1.5 m (T-14) and 6.86 g/t gold and 160 g/t silver over 2.5 m (T-16).
1988 (Eaton and Walls, 1988)	Chevron Minerals Ltd.	Tawa	Excavator trenching (1,924 m) and six diamond drill holes (377 m).	Trenching exposed a vein in T-22 that returned 16.3 g/t gold and 1,289 g/t silver over 1.7 m. A drill hole testing the down-dip continuity of this interval returned 6.03 g/t gold and 129.9 g/t silver over 1.36 m (Hole 88-6).
1988 (Sutherland, 1988)	Chesbar Resources Inc.	Dic	Stream sediment sampling, prospecting and trenching.	Silt sampling returned values up to 1,050 ppb gold. Prospecting yielded a peak value of 220 ppb gold. Historical trenches (7.8 km) were deepened, but hindered by frozen ground.
1989 (Eaton, 1989)	BYG Natural Resources Inc.; Chevron Minerals Ltd.	Tawa	Road construction and excavator trenching (580 m).	n/a

1992 (Langdon, 1992)	Aurchem Exploration Ltd.	Wedge	RC drilling.	RC drilling confirmed anomalies identified by geophysics, trenching, and soil geochemistry. Some samples returned Cu-Mo anomalies, with minor Au and Ag.
1996 (Dujakovic et al., 1996)	BYG Natural Resources Inc.	Tawa, KR and Dic	Very low frequency electromagnetic, magnetic (VLF-EM) and geochemical surveys.	Northwesterly trending VLF-EM and magnetic anomalies and soil geochemical values up to 1,825 ppb gold and 1,049 ppm copper.
1999 (Stroshein, 1999)	BYG Natural Resources Inc.	Gerald and Tawa	Overburden stripping and diamond drilling (307.8 m in 3 holes).	Klaza Zone drilling returned 3.82 g/t gold and 84.7 g/t silver over 5.05 m (TA-98-8). BRX Zone drilling returned 0.24 g/t gold and 1.3 g/t silver over 55.75 m (TA-98-9).
2001 (Stroshein, 2001)	Aurchem Exploration Ltd.	Wedge	Mapping, soil sampling, and trenching collecting 42 chip samples.	Silicification was revealed in trenches. Chip samples have anomalous gold and silver.
2003 (Stroshein, 2004)	Aurchem Exploration Ltd.	Etzel	Excavator trenching	The best trench result was from a clay-rich zone that graded 6.05 g/t gold and 15.3 g/t silver over 6.0 m.
2005 (Wengzynowski, 2006)	ATAC Resources Ltd.	Klaza	Staked Klaza 1-24 claims before optioning them to Bannockburn Resources Limited.	n/a
2009 (Turner and Tarswell, 2011)	ATAC Resources Ltd.	Klaza	ATAC sold the Klaza 1-24 claims to Rockhaven Resources Ltd.	n/a

2010 (Turner and Tarswell, 2011)	Rockhaven Resources Ltd.	Klaza	Claim staking, geophysical surveying, diamond drilling (1,642 m), excavator trenching (8,000 m), and soil geochemical sampling.	Best drill intersect returned 3.23 g/t gold and 117.7 g/t silver over 36.50 m. Several additional coincident geochemical and geophysical anomalies were identified. Peak soil geochemical values were 856 ppb gold, 5.8 ppm silver, 494 ppm lead and 349 ppm arsenic.
2011 (Tarswell and Turner, 2012)	Rockhaven Resources Ltd.	Klaza	Geophysical surveying, diamond and reverse circulation drilling (14,068 m), excavator trenching (4,050 m), soil geochemical sampling, and air photo surveys.	Best drill intersect returned 5.43 g/t gold and 50 g/t silver over 14.80 m. Peak soil geochemical values were 320 ppb gold, 61.3 ppm silver, 606 ppm lead and 213 ppm arsenic.
2011 (Great Bear Resources, 2012a)	Great Bear Resources Ltd.	Etzel	Diamond drilling, excavator trenching, and soil geochemical sampling.	Best drill intersect returned 0.58 g/t gold and 2.4 g/t silver over 40.65 m.
2012 (Great Bear Resources, 2012b)	Great Bear Resources Ltd.	Etzel	Diamond drilling and soil geochemical sampling.	Best drill intersect returned 2.30 g/t gold and 7.0 g/t silver over 1.16 m.
2012	Rockhaven Resources Ltd.	Dic and Eagle	Purchased Dic and Eagle claims from J. Dickson	n/a
2012 (Tarswell and Turner, 2013)	Rockhaven Resources Ltd.	Klaza, Dic and Eagle	Diamond drilling (21,719 m), excavator trenching (4,000 m), and soil geochemical sampling.	Highlight drill result of 5.78 g/t gold and 111 g/t silver over 15.62 m. Peak soil values were 920 ppb gold, 21 ppm silver, 722 ppm lead and 1,750 ppm arsenic

2012	Rockhaven Resources Ltd.	Etzel	Purchased Etzel claims from Ansell Capital Corp.	n/a
2012	Rockhaven Resources Ltd.	Vic, VG, J. Bill#, D, Bull, JBF and Jon-Wedge	Purchased claims from Aurchem Exploration Ltd.	n/a
2013 (Tarswell and Turner, 2014)	Rockhaven Resources Ltd.	Klaza	Excavator trenching (5,000 m)	Best trench result was 5.61 g/t gold and 300 g/t silver over 18.8 m
2014 (Dumala, Tarswell and Turner, 2015)	Rockhaven Resources Ltd.	Klaza	Geophysical surveys, excavator trenching(880 m), diamond drilling (19,242 m), and metallurgical testing	Best drill intersect returned 16.29 g/t gold and 1,435 g/t silver over 1.37 m.
2015 (Tarswell, Walsh and Cruz, 2016)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical surveys, excavator trenching (436 m), diamond drilling (13,774 m), metallurgical testing and mineral resource estimation	Best drill intersect returned 9.46 g/t gold and 84.9 g/t silver over 6.09 m.
2016 (Turner and Willms, 2017)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical surveys, excavator trenching (1,270 m), diamond drilling (8,426 m), metallurgical testing and mineral resource estimation	Best drill intersect returned 17.01 g/t gold and 121 g/t silver over 4.32 m.

2017 (Turner and Cruz, 2018)	Rockhaven Resources Ltd.	Klaza	Soil geochemical sampling, geophysical survey, trenching (1,020 m), diamond drilling (15,921 m)	Best drill intersect returned 196 g/t gold and 608 g/t silver over 0.91 m. Soil sampling identified 1,600 by 1,500 m arsenic anomaly at Rusk target.
2019 (Turner and Willms, 2020)	Rockhaven Resources Ltd.	Klaza	Rock geochemical sampling, diamond drilling (5,752.14 m)	Best drill intercept returned 2.75 g/t gold and 495 g/t silver over 3.46 m

The main exploration programs and their results are described in more detail in the following paragraphs. Nearly all the work was done at the KVS, in the eastern third of the Work Area 2.

In 1968, Esansee Explorations Limited completed geophysical and geochemical surveys in an area covering some of the veins that now comprise the KVS. An electromagnetic (EM) survey covering approximately 5,000 m of grid lines identified three conductive zones. Bulldozer trenching across one of these zones reportedly cut a 6 m wide gold-silver-lead bearing fissure vein, which was traced for 760 m. Samples from this vein reportedly returned up to 34.3 g/t gold, 2,057 g/t silver and 44% lead, with less than 1% zinc. A total of 315 grid soil samples were collected, returning peak values of 8,200 ppm lead, 125 ppm silver and 800 ppm arsenic which showed strong positive correlation with conductive zones (Parker, 1968).

In 1969, Esansee conducted a trenching program to follow up geophysical and geochemical anomalies identified in 1968. Three bulldozer cuts were made along the 760 m length of the vein, and a fourth trench was dug on a weaker parallel structure to the northeast. All trenches across the primary structure intersected wide zones of shearing and alteration, which host irregular and discontinuous vein material with weakly disseminated galena, pyrite and arsenopyrite. Oxidation of sulphide minerals produced limonite, cerussite and anglesite. A chip sample collected from the most northwesterly trench returned 15.09 g/t gold and 483 g/t silver over 1.83 m (Campbell and Guardia, 1969). Following this work, all claims in the area were allowed to lapse.

In 1971, Cyprus Mines Corporation performed an exploration program in the western-most area of the Wedge claims (southeastern corner of Work Area 2), which consisted of geological mapping, geochemical surveys, geophysical surveys, trenching and a small drilling program (McClintock, 1986). The drill logs for six diamond drill holes and a single percussion hole were submitted to the Mining Recorder; however, the analytical results were not released.

Between 1971 and 1973, Area Exploration Company conducted an extensive percussion and diamond drilling program on claims belonging to Mount Nansen Mines. Area Exploration's drilling was done near the Cyprus Mines drilling area, on a porphyry copper target (Cyprus Zone). Most of Area Exploration's work was located on claims now owned by private

companies located immediately south and east of Work Area 2. Two of Area Exploration's percussion drill holes (283.5 m) and three of its diamond drill holes (776.1 m) tested a second porphyry target, the Kelly Zone, which lies between the KVS to the northwest and the Cyprus Zone to the southeast. These holes partially tested a 700 by 900 m copper-in-soil geochemical anomaly that coincides with a large, circular magnetic low (Dickinson and Jilson, 1973). The best result from diamond drilling within the Kelly Zone was 0.10% copper over 6.10 m (1973-CD-17), while the best percussion drilling result was 0.343 g/t gold, 9.94 g/t silver, 0.02% copper and 0.01% lead over 6.10 m (1971-CP-8).

In 1980, BRX Mining and Petroleum Corp. staked the Tawa claims to cover the area of the KVS where Esansee performed its work in the late 1960s. The Tawa claims are now mostly covered by Rockhaven's Klaza 1-24 claims. BRX's exploration program included geochemical sampling, bulldozer trenching and 447.3 m of diamond drilling in seven holes. Soil sampling identified linear, northwest-trending geochemical anomalies, which typically coincided with electromagnetic anomalies identified earlier by Esansee. The bulldozer trenching program involved re-opening trenches dug in 1968. The main mineralized structure exposed in the trenches was reported to strike 110º to 140° and dip steeply to the northeast. Highlight results from chip samples across vein exposures include 6.0 g/t gold and 54.2 g/t silver over 0.91 m and 33.0 g/t gold and 607.5 g/t silver over 0.3 m (Saunders, 1980a). Four diamond drill holes intersected fault and vein zones within granitic country rock. Highlight intervals from this drilling include: 8.64 g/t gold and 25.68 g/t silver over 6.0 m, including 24.5 g/t gold and 50.1 g/t silver over 1.5 m (80-6); 18.86 g/t gold and 32.0 g/t silver over 0.3 m (80-2); and 9.26 g/t gold and 65.1 g/t silver over 0.4 m (80-5). Core recovery was poor within areas of strong alteration and gouge, associated with the faults and veins. Three of the drill holes were collared subparallel to the veins and did not encounter significant mineralization.

In 1981, BRX conducted EM and proton magnetometer surveys on the Tawa claims. The EM survey identified a series of en-echelon, northwest-trending conductors, while the proton magnetometer survey delineated magnetic lows that correlate with the EM conductors (Brownlee, 1981).

In 1984, Gordon Dickson staked the Wedge claims, and in 1985 carried out a small trenching program (McClintock, 1986). Pearl Resources Ltd. optioned the Wedge claims from Dickson in 1986 and conducted a soil geochemical program. A total of 222 soil samples were collected, which identified northwest-trending anomalies for gold, silver, lead and zinc (McClintock, 1986).

In 1985, Kerr Addison Mines Limited staked the Dic 1-50 claims to cover an arsenic and antimony stream sediment anomaly on the north side of Mount Nansen, to the south-southwest of the Tawa claims. Kerr Addison also acquired the Vic and VG claims from G. Dickson. Kerr Addison performed geological mapping, geochemical sampling and geophysical surveys on the Dic claims. A total of 216 soil and 45 rock samples were collected for analysis and 4.0 line kilometres of magnetic and 2.8 line kilometres of VLF-EM surveys were conducted. The best rock sample returned 0.48 g/t gold, 88 g/t silver, 1,600 ppm arsenic and 180 ppm antimony, while soil sampling returned peak values of 400 ppb gold, 27 ppm silver, 2,000 ppm arsenic, and 46 ppm antimony (Heberlein, 1985).

In 1986, Pearl Resources performed geological mapping and geochemical sampling on the Etzel claims. Results from soil samples collected on three separate grids identified linear, northwesterly trending anomalies with maximum values of 310 ppb gold, 54.5 ppm silver, 1,980 ppm lead and 1,160 ppm zinc. A chip sample across a 1.0 m sheared vein zone returned 0.99 g/t gold (McClintock, 1986).

In 1986, Chevron Minerals Ltd. optioned the Tawa claims from BRX. Chevron performed geological mapping, prospecting, soil geochemical sampling and EM surveys before staking additional claims to cover projections of anomalous trends. A 43.2-line kilometre EM survey was conducted, which extended the strike lengths of known EM conductors to 1,900 m. Soil sampling outlined numerous northwesterly trending clusters of anomalous gold values (up to a 6258 ppb). Individual gold-in-soil clusters are continuous for lengths up to 2000 m. Almost 5000 m of pre-stripping was done using a bulldozer because permafrost hindered trenching in frozen soil (Eaton, 1986). Where previously stripped trenches were deepened to bedrock, chip samples returned numerous high values including: 5.55 g/t gold and 31.2 g/t silver over 1.4 m (T-4); 3.5 g/t gold and 15.1 g/t silver over 4 m (T-4); and 5.28 g/t gold and 132.0 g/t silver over 2 m (T-4). Trenching on virgin ground was largely hindered due to permafrost; however, two significant bedrock intersects were exposed, which returned 5.28 g/t gold and 242.4 g/t silver over 2.5 m (T-6/7) and 2.33 g/t gold and 3.77 g/t silver over 5.0 m (T-8).

In 1986, Kerr Addison added the Dic 51 to 63 claims to its claim block and conducted line cutting, ground geophysics, soil sampling and prospecting. Results from this work were encouraging and, in 1987, Kerr Addison granted Chesbar Resources Inc. the right to earn an interest in the Dic claims by contributing to exploration expenditures. Work in 1987 involved pre-stripping trenches of moss and the upper soil layer (Sutherland, 1988).

In 1986, Kerr Addison undertook exploration of the Vic and VG claims, most of which lie northeast of Work Area 2 and are now owned by a private company. The program included mapping, geochemical sampling, geophysical surveys, trenching and diamond drilling (Heberlein and Lyons, 1986). A total of 130 rock, 62 silt, 16 soil and 459 drill core samples were collected during this program (Heberlein and Lyons, 1986). High gold and silver results were obtained from rock samples taken from quartz veins and sheared wallrocks. Silt and soil samples returned few anomalous values (Heberlein and Lyons, 1986). Resistivity (300 line metres), self-potential (8.92 line kilometres), magnetometer (11.85 line kilometres), and VLF-EM (10.7 line kilometres) geophysical surveys were also conducted, with mixed results. Overall, east-west trending magnetic lows provided the best correlation to altered and mineralized zones (Heberlein and Lyons, 1986). Drilling results indicated discontinuous quartz veining within larger, better connected alteration zones. Some of the veins appeared to be cut off by porphyry dykes (Heberlein and Lyons, 1986).

In 1987, Chevron continued its exploration at the Tawa claims with pre-stripping, bulldozer trenching, road construction and claim staking. The pre-stripping and trenching program comprised 28 trenches totalling 6,385 m, of which 12 trenches totalling 1,939 m were wholly or partially excavated to bedrock. Continuous chip samples collected over 1 to 5 m intervals from trench ribs returned positive results from the Klaza and BRX zones (Eaton and Walls, 1987).

The most significant result from the Klaza Zone was 4.22 g/t gold and 47.3 g/t silver over 8.0 m (T-11). The best results from the BRX Zone were 3.12 g/t gold and 46.3 g/t silver over 7.0 m, including 6.99 g/t gold and 41.1 g/t silver over 1.5 m (T-14); and 6.86 g/t gold and 160.1 g/t silver over 2.5 m (T-16). Parallel vein structures were identified north and south of the two main zones. The best result from the new structure was 6.82 g/t gold and 17.1 g/t silver over 1 m (T-15). A 1.7 km four-by-four trail was constructed from the Mt. Nansen Road to the trenching area on the Tawa claims.

In 1988, Chevron sub-optioned the Tawa claims to BYG, under an agreement that allowed BYG to earn an interest in the claims by funding a program of road building, pre-stripping, excavator trenching and six diamond drill holes (377 m). All of the drilling was done at the BRX Zone, while the trenching was split between the BRX and Klaza zones (Eaton and Walls, 1988). Results from trenching better defined the two known veins and identified a third vein, the BYG Zone, between them. The best trench result from the BRX Zone was 16.3 g/t gold and 1,289.1 g/t silver over 1.7 m (T-22). The Klaza Zone was delineated over a strike length of 250 m, with the best trench exposures grading 43.06 g/t gold and 102 g/t silver over 1.1 m and 4.22 g/t gold and 92 g/t silver over 8.0 m. A trench testing the BYG Zone intersecting three veins spaced roughly 40 m apart. One of these veins returned 6.03 g/t gold and 24.0 g/t silver over 3.3 m (T-25). Drilling intersected numerous veins that were variably mineralized. The best drill result, targeting the down-dip extension of the BRX Vein exposure in T-22, was 6.03 g/t gold and 129.9 g/t silver over 1.36 m (Hole 88-6).

In 1988, Chesbar conducted stream sediment sampling, prospecting and excavator trenching on the Dic claims. Forty-four silt samples were collected at 100 m intervals along subparallel drainages. Gold values from this sampling were generally less than 10 ppb, but values up to 1050 ppb were reported. Rock sampling returned background to weakly elevated, with a peak value of 220 ppb gold. Although 7.8 km of trenches were pre-stripped, unseasonably high precipitation resulted in less than 20 cm of overburden being removed from each of them (Sutherland, 1988).

In 1989, BYG completed a work program on the Tawa claims comprised of road building and three excavator trenches, totalling 580 m. Due to frozen ground, none of these trenches reached bedrock (Eaton, 1989).

In 1992, Aurchem Exploration Ltd. carried out 3384.8 m of reverse circulation drilling in 32 holes on the Wedge claims, some of which are now part of Work Area 2. Drill assays returned sub-economic but geochemically anomalous copper and molybdenum values in all 32 holes (Langdon, 1992). Gold and silver were present in very low amounts in some of the holes.

In 1996, BYG conducted geochemical sampling and VLF-EM and magnetic surveys on the Tawa claims and KR claims located to the west. The magnetic survey identified northwest-trending linear magnetic highs and lows, which are associated with geological structures or contacts. These magnetic linears were found to be along trend with a large magnetic high in the eastern part of the claims (Dujakovic et al., 1996). The VLF-EM survey delineated three major structures offset by north-striking faults. In general, the VLF-EM highs and magnetic lows coincide. Four soil grids were sampled, with the strongest coincident gold and copper values

along the eastern side of the Tawa claims, where peak values were 1,825 ppb gold and 1,049 ppm copper.

In 1998, BYG performed an exploration program at the Tawa claims, which included stripping of overburden from the surface traces of VLF-EM and magnetic anomalies, and three diamond drill holes (307.8 m). Two holes (TA-98-7 and 98-8) targeted the Klaza Zone, while the third hole (TA-98-9) tested the BYG Zone. Hole TA-98-7 intersected a weakly altered porphyry dyke with widespread potassic alteration that graded up to 0.9 g/t gold. Hole TA-98-8 intersected an altered porphyry dyke with high-grade gold-silver veins in its footwall. Samples of vein, dyke and breccia averaged 3.82 g/t gold and 84.7 g/t silver over 5.05 m, including a vein that returned 17.1 g/t gold and 159.2 g/t silver over 1.05 m (Stroshein, 1999). Hole TA-98-9 intersected a quartz-sulphide stockwork that averaged 0.24 g/t gold and 1.3 g/t silver over 55.75 m. Subsequent to the 1998 drill program, BYG filed for bankruptcy and all of its claims went into receivership.

In 2001, Aurchem continued its exploration of the Vic and Wedge claims with prospecting, mapping, soil geochemistry and trenching. Trenching on the Vic claims revealed faulting that crosscut gold-bearing quartz veins, while chip samples from trenches on the Wedge claims returned anomalous silver and gold values from a zone of silicification (Stroshein, 2001).

In 2003, Aurchem performed limited excavator trenching on Etzel claims that now lie in the southeastern part of Work Area 2. These trenches tested altered granodiorite, feldspar porphyry dykes and shear zones. The best results were 1.0 g/t gold and 58 g/t silver over 2.5 m and 6.05 g/t gold and 15.3 g/t silver across 6.0 m. A 21.5 m wide, northwest-trending clay-rich zone returned 0.85 g/t gold and 4.5 g/t silver over 12.0 m (Stroshein, 2004).

Between 2004 and 2006, Aurchem completed deeper trenching, RC drilling and diamond drilling on claims partially covered by Work Area 2 (Stroshein, 2008).

In 2005, the core of the Tawa claims lapsed and ATAC Resources Ltd. immediately re-staked the area as the Klaza 1-24 claims. These claims encompass most of the KVS. ATAC subsequently optioned the claims to Bannockburn Resources Limited.

In 2006, Bannockburn performed line cutting and IP surveying on the Klaza claims. A 1,450 by 1,800 m area was surveyed, which covered most of the KVS. Two large chargeability highs with coincident resistivity lows were identified in the eastern part of the survey area. In the western part of the property, narrow linear chargeability anomalies were identified, which correspond with some of the known vein zones (Wengzynowski, 2006).

In 2007, Aurchem performed a soil geochemistry and trenching program on the Vic claims, to the northwest of Work Area 2 (Stroshein, 2008).

In 2008, Bannockburn relinquished its option on the Klaza claims.

In 2009, Rockhaven purchased the Klaza claims from ATAC.

In 2010, Rockhaven staked additional claims and conducted a program consisting of approximately 8,000 m of excavator trenching in 21 trenches, 1,642 m of diamond drilling in 11 holes, 326 line kilometres of helicopter-borne geophysical surveys and soil sampling (289 samples). Highlight drill intervals included 32.52 g/t gold and 34.3 g/t silver over 3.36 m (KL-10-06) and 3.23 g/t gold and 117.7 g/t silver over 36.50 m (KL-10-07) (Turner and Tarswell, 2011).

In 2011, Rockhaven completed 14,068.45 m of diamond drilling in 52 holes, 2,940 m of reverse circulation percussion drilling in 21 holes, 4,050 m of excavator trenching in 12 trenches, soil geochemical sampling (2,798 samples), a petrographic study and road building on the Klaza claims. Diamond drilling highlights included: 11.25 g/t gold and 72 g/t silver over 3.94 m (KL-11-17) and 4.24 g/t gold and 15 g/t silver over 10.46 m (KL-11-15) (Tarswell and Turner, 2012).

In 2011, Rockhaven purchased the Dic and Eagle claims from Aurchem. These claims adjoin the Klaza claims, which comprise the southern-most claims in Work Area 2.

In June 2011, Ansell Capital Corp. purchased the Etzel claims from Aurchem and then optioned them to Great Bear Resources Ltd. Great Bear completed a program of three diamond drill holes (696.17 m), four excavator trenches (255.70 m) and grid soil sampling (478 samples). Drilling identified multiple narrow, mineralized veins hosted within fresh to strongly limonite altered granodiorite. The best drill interval returned 1.94 g/t gold and 11.85 g/t silver over 2.60 m (ET-11-01). Trenching yielded a peak result of 2.80 g/t gold and 5.8 g/t silver over 10.4 m (Dadson and Amy, 2012).

In 2012, Great Bear completed another three hole diamond drill program (930.25 m) on the Etzel claims to test for an easterly extension of the Klaza Zone. The best result was from ET-2012-06, which returned 1.79 g/t gold, 50.0 g/t silver and 1.41% copper over 1.62 m (Great Bear Resources Ltd, 2012b). Great Bear subsequently relinquished its option.

In late 2012, Rockhaven purchased the Etzel claims from Ansell and some of the VG, Vic, J. Bill, D, Bull, JBF and Jon-Wedge claims from Aurchem. These claims currently form the eastern part of Work Area 2.

In 2012, Rockhaven conducted an exploration program that included 21,719.47 m of diamond drilling, 3964 m of excavator trenching, and soil geochemical sampling. Highlight drill results included 11.90 g/t gold and 5.23 g/t silver over 6.70 m (KL-12-133) and 5.78 g/t gold and 111 g/t silver over 15.62 m (KL-12-96) (Tarswell and Turner, 2013).

In 2013, Rockhaven undertook a 5,000 m excavator trenching program which included 38 trenches. Highlights from these trenches included 5.61 g/t gold and 300 g/t silver over 18.79 m in TR-13-51 and 16.20 g/t gold and 158 g/t silver over 6.84 m in TR-13-52 (Tarswell and Turner, 2014).

In 2014, Rockhaven performed a program of 880 m of excavator trenching in five trenches and 19,242 m of diamond drilling in 104 holes. Highlights from the 2014 trenches included 5.83 g/t gold and 390 g/t silver over 1.3 m (TR-14-13) and 1.13 g/t gold and 12.22 g/t silver over 5.9 m

(TR-14-79). Highlights from the drilling included KL-14-238, drilled in the Western BRX Zone, which intersected multiple veins within an 18.5 m interval that averaged 2.19 g/t gold and 120 g/t silver. The best vein within the interval graded 16.29 g/t gold and 1,435 g/t silver over 1.37 m (Dumala, Tarswell and Turner, 2015).

In January 2015, Rockhaven announced a maiden inferred resource estimate for the KVS. This estimate totalled 7,040,000 tonnes containing 948,348 oz gold and 21,780,313 oz silver, and averaging 4.19 g/t gold and 96.23 g/t silver at a 1.5 g/t gold cut-off (Wengzynowski et al., 2015).

Between June and August 2015, Rockhaven completed 436 m of excavator trenching and 13,774 m of diamond drilling in 104 holes. The program also included the installation of five groundwater monitoring wells and one downhole thermistor cable to collect ground water data within the KVS. Oriented core drilling was used to collect geotechnical information.

Metallurgical test work was carried out throughout the year on three zone specific and one project-wide composite. This work was successful at developing a process flow sheet that yielded good overall recoveries for gold, silver, lead and zinc.

In December 2015, Rockhaven announced an updated inferred resource estimate for some of the zones in the KVS. This estimate included both pit-constrained and underground resources, producing a total Inferred Mineral Resource estimate of 9,421,000 tonnes grading 4.48 g/t gold, 89.02 g/t silver, 0.75% lead and 0.95% zinc, and contains 1,358,000 oz gold, 26,962,000 oz silver, 155,417,000 lbs lead and 197,891,000 lbs zinc. Cut-off grades applied to the pit-constrained and underground resources are 1.3 g/t gold equivalent and 2.75 g/t gold equivalent, respectively (Ross, 2016).

Between June and August 2016, Rockhaven completed soil geochemical sampling, an induced polarization geophysical survey, 1,200 m of excavator trenching, 60 m of hand trenching and 8,426.84 m of diamond drilling in 44 holes, on the KVS. Diamond drilling identified two new zones: the Stroshein Zone, located between the BRX and Klaza veins; and the Rex Zone, located approximately 1000 m south of the Eastern BRX Zone. Drill results from the Stroshein Zone included 25.9 g/t gold over 0.51 m within a broader zone of 5.29 g/t gold over 3.09 m. Results from the Rex Zone included 10.55 g/t gold over 1.42 m (Turner and Willms, 2017). Additional ongoing metallurgical studies and test work was also completed.

In 2017, Rockhaven conducted a program of soil geochemical sampling, prospecting, an Induced Polarization geophysical survey, 595 m of excavator trenching, 425 m of hand trenching, and 15,921.55 m of diamond drilling (96 holes). Diamond drilling was focused towards infill resource definition, but included a small amount of exploration drilling. Highlight drill results included 94.09 g/t gold and 545 g/t silver over 2.63 m (KL-17-401) from the Western BRX Zone, while exploration drilling to the north of the Klaza Zone returned 1.16 g/t gold and 18.7 g/t silver over 10.12 m and 9.43 g/t gold and 180 g/t silver over 0.86 m (KL-17-403) from the Central Pearl Zone. Trenching at the newly discovered Victoria Target, located to the northeast of the KVS, returned 4.95 g/t gold and 135 g/t silver over 1.5 m. Prospecting at the Rusk Target, located five kilometres south of the current resource area returned up to 2.82 g/t gold and 2,070 g/t silver from samples of vein float (Turner and Cruz, 2018).

In June 2018, Rockhaven announced an upgraded resource estimate, containing both inferred and indicated categories, in the KVS. This estimate included both pit-constrained and underground resources, yielding a total Indicated Mineral Resource of 4.5 Mt containing 686,000 oz gold and 14,071,000 oz silver (grading 4.8 g/t gold and 98 g/t silver) and a total Inferred Mineral Resource of 5.7 Mt containing 507,000 oz gold and 13,901,000 oz silver (grading 2.8 g/t gold and 76 g/t silver). Cut-off grades applied to the pit-constrained and underground resource are 1.0 g/t and 2.3 g/t AuEQ respectively (Ross, 2018).

In 2019, Rockhaven completed rock geochemical sampling, and 5,752.14 m of diamond drilling in 33 holes. Diamond drilling was focused on expanding the recently discovered Pearl Zone along strike and infill drilling in the Eastern Zones. Highlight drill results included 5.28 g/t gold and 1,054 g/t silver over 1.60 m (KL-19-439) from the Pearl Zone while infill drilling returned 0.67 g/t gold and 8.7 g/t silver over 29.4 m (KL-19-450) and 3.43 g/t gold and 20.4 g/t silver over 2.72 m (KL-19-451) in the Eastern Zones (Willms and Turner, 2020).

Mining and exploration for placer gold has been done on small creeks draining Work Area 2 in recent years. Creeks on both the west and southeast sides of the KVS host active placer mines. A tributary of the Klaza River, located on the west side of the KVS, which drains the Western BRX and Western Klaza zones, has produced 2,692 oz. of gold between 1978 and 2014. East Fork and Nansen Creek, which lie immediately southeast of the KVS, have produced a combined 26,970 oz. of gold since 1978 (Bond, 2014). Chemical analyses of gold grains within hypogene-facies veins, eluvial material and placer gravels indicate that the gold on the placer creeks source from the KVS.

Table 5: Work Area 3 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1987 (Hulstein, 1988)	G. Dickson	Nulee, JS, Moon, and Robert	Mapping, trenching, and geochemical sampling.	The Bear Zone returned anomalous soil geochemistry. The source of Montgomery Creek Zone anomalous float was untraceable.
1989 (Brent, 1991)	E. Curley	Grizzly	Four bulldozer trenches, hand trenching, and rock samples.	Trench intervals of 7.2 g/t Au over 3.5 m and 15.4 g/t Au over 1.5 m.
1990 (Brent, 1991)	E. Curley	Grizzly	Eight trenches, chip sampling, and mapping.	Located felsic dykes associated with the Grizzly Vein (now the V1 vein). A grab sample graded 42.5 g/t Au, 57.9 g/t Ag, >3%

				As, 185 ppm Cu, 28 ppm Mo, 979 ppm Pb, 91 ppm Sb, 34 ppm W, and 410 ppb Hg.
1994 (Pautler, 1994)	E. Curley, Teck Corporation	Grizzly	Trench mapping and rock sampling.	Trench chip samples graded at 3.52 g/t Au and 8.8 g/t Ag over 1.5 m.
2003 (Hulstein, 2003)	J. Dickson	JRW	Prospecting, chip sampling, and soil sampling to explore V1.	Vein samples ran 1.24 g/t Au, 6,756 ppm As, 68.3 ppm Bi, and 51.2 ppm W over 2.2 m. Soil geochemistry revealed an anomaly containing 31.3 ppb Au, 53.1 ppm As, and 1.5 ppm Bi.
2009 (Smith, 2010)	Strategic Metals Ltd.	Dade	Staked the Dade 1-16 claims and ran a small soil geochemistry grid. Dade claims 17-96 were staked after assay results were returned.	Soil anomalies graded up to 113 ppb Au, while samples from trench floors ran 4,280 ppb Au.
2011 (Smith, 2011)	Wolverine Metals Ltd.	Dade	CanDig and excavator trenching, soil geochemistry, and geophysical surveys.	Trenching verified V1 and located V2 veining and stockwork.
2012 (Burrell, 2013a)	Strategic Metals Ltd.	Dade	23 diamond drill holes (2043.39 m) and 24 RC drill holes (1,426.47 m).	Diamond holes did not intersect quartz veining, but found some results in alteration zones such as 2.45 g/t Au over 1.37 m. RC drilling had several significant intervals, including 5.32 g/t Au over 1.53 m.

The first placer gold discovery in the Mount Nansen Camp was reported in 1899. Since that time, placer mining operations have been conducted on several streams in the area, including Victoria Creek, the headwaters of which lie within Work Area 3.

In the 1920s, prospecting led to a series of hand trenches that exposed a mineralized quartz vein, referred to as the Grizzly Vein, on what are now the Dade claims. Assays from this work were not reported (Deklerk and Traynor, 2005).

In 1989, Eugene Curley, an independent prospector staked the Grizzly 1-24 claims after he rediscovered the Grizzly Vein. Work in 1989 included bulldozer and hand trenching and rock sampling. Four bulldozer trenches were excavated, but only one reached bedrock. Based on this work, the vein was described as striking 010 to 040° and dipping 60° west, being up to six metres wide, and having been traced along strike for 140 m before disappearing beneath colluvium (Burrell, 2013a).

In 1990, eight more bulldozer trenches totalling 1,900 m^3 were excavated. Mapping identified a felsic porphyry dyke and a silicified rhyolite dyke, which are associated with an altered and brecciated quartz-sulphide vein that is likely the Grizzly Vein. The vein was described as white quartz with patchy arsenopyrite, honeycombed rusty cavities and stains of scorodite, limonite and manganese oxides. A vein sample from one of the trenches returned 42.5 g/t gold, 57.9 g/t silver, > 3% arsenic, 185 ppm copper, 28 ppm molybdenum, 979 ppm lead, 91 ppm antimony, 34 ppm tungsten, and 410 ppb mercury (Brent, 1991).

In 1994, a two-day trench mapping and rock sampling program was conducted at the Grizzly Vein by Eugene Curley and Teck Corporation. Sampling was done in two trenches located nine metres apart on a side hill. A chip sample from the upper trench returned 0.7 g/t gold with no reported silver over 1.5 m, while a chip sample from the lower trench returned 3.52 g/t gold and 8.8 g/t silver over 1.5 m (Pautler, 1994). Where exposed in these trenches, the Grizzly Vein reportedly strikes 025°and dips 55° west. Gold appears to be concentrated within the brecciated, pyrite-rich footwall side of the vein. Despite the encouraging results, the claims were allowed to lapse following this work.

In 2002, J. Dickson staked the JRW 1-4 claims to cover the Grizzly Vein, and conducted a work program consisting of prospecting, rock sampling from existing bulldozer trenches, and reconnaissance soil sampling. A sample of quartz vein situated adjacent to a porphyry dyke returned 1.64 g/t gold, > 1% arsenic, 97.9 ppm barium and > 200 ppm tungsten. A chip sample of white to milky white quartz with less than 0.5% pyrite, scorodite staining and limonitic fractures returned 1.24 g/t gold, 6,756 ppm arsenic, 68.3 ppm bismuth and 51.2 ppm tungsten across 2.2 m. Soil sampling 200 m northeast of the old trenching area identified an anomaly with values up to 31.3 ppb gold, 53.1 ppm arsenic and 1.5 ppm bismuth (Hulstein, 2003). Dickson's claims later expired after inactivity.

In 2009, Strategic staked the Dade 1-16 claims. In 2010, Strategic performed one day of soil sampling on its Dade claims. Samples were collected on a 100 x 100 m grid in the vicinity of the Grizzly Vein and at five metre intervals from the floors of old trenches. Results from this work were encouraging. Grid soil samples returned a few anomalous values up to 113 ppb gold, while trench floor soil samples yielded localized strong to very strong results up to 4,280 ppb gold (Smith, 2010). The Dade 17 to 96 claims were added in September 2010 after the results from

the 2010 exploration program were known. Wolverine signed an option purchase agreement with Strategic in September 2010. Based on the potential for discovery of additional veins on the Dade claims, the Grizzly Vein was renamed the V1 vein (Smith, 2011).

In 2011, Wolverine conducted soil sampling and mechanized trenching (CanDig and excavator), and contracted New-Sense Geophysics Limited to conduct helicopter-borne magnetic and radiometric surveys over the Dade claims (Smith, 2011). Mechanized trenches confirmed the presence of the V1 vein and identified a second sinusoidal zone of quartz veining and stockwork, which was named the V2 vein (Smith, 2011).

In 2012, Wolverine performed 2043.39 m of diamond drilling in 23 holes and 1,426.47 m of RC drilling in 24 holes. Most of the drilling was done beneath and directly along strike of veins exposed in the old trenches. The diamond holes intersected an extensive system of quartz-calcite veinlets, but assay results were disappointing, with a peak value of 2.45 g/t gold over 1.37 m. The best RC drill results (up to 5.32 g/t gold over 1.53 m) came from widely spaced step-out holes drilled 400 m west of the trenched area (Burrell, 2013a).

Table 6: Work Area 4 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1934 (none)	G. Dickson	Val	Staked the Billy claims (now called Val)	n/a
1958 (Robinson, 1959)	Asbestos Corporation Ltd.	Val	Optioned the Billy claims, mapping, trenching, packsack drilling.	Exposed a quartz-feldspar porphyry dyke; alteration with galena and pyrite.
1979	Rex Silver Mines Ltd. (formerly Peso Silver Mines Ltd.)	Val	Transferred the Val property to Schweizerische Geselleschaft.	n/a
1981	Mount Nansen Corporation	Val	Acquired the Val property.	n/a
1981	BYG Natural Resources	Val	Re-staked some of the Val area as DD claims.	n/a
1983	Mount Nansen Corporation	Val	Conducted a feasibility study.	n/a
1984	BYG Natural Resources	Val	Purchased the Val property.	n/a
1985	BYG	Val	Re-staked some	n/a

	Natural Resources		Val claims as ONT claims; Chevron Minerals Ltd optioned some claims.	
1986-88	Aurum Geological Consultants Inc./Graham Dickson	McDade	Ran an exploration program including mapping, soil geochemistry and bulldozer trenching	Discovered high grade float samples (up to 15.67 g/t gold) and conducted pre-stripping/bulldozer trenching
1988	Chevron Minerals Ltd.	Val	Dropped its options.	n/a
1995 (Carlyle, 1997)	E. Curley	Queen	Staked Ang claims 1-8. Prospecting and surface mapping.	Located quartz-feldspar porphyry dykes
1997 (Carlyle, 1997)	E. Curley	Queen	Staked Ang claims 9-20. Program of soil sampling and trenching.	Soil geochemistry and trench samples gave low Au values (138 ppb and 47 ppb, respectively)
2003	B. Trerice	Val	Staked the Val claims	n/a
2011	Rockhaven Resources Ltd.	Val	Signed an option agreement for the Val property.	n/a
2012	Rockhaven Resources Ltd.	Val	Carried out geochemical soil sampling.	n/a
2013	Rockhaven Resources Ltd.	Val	Ran a two trench program.	Collected 82 samples over 330 m of trenching, locating mineralized veins below soil anomalies. Trenches returned 3.09 g/t Au with 5.93 g/t Ag over 1.00 m and 1.91 g/t Au with 131 g/t Ag over 1.30 m
2015	Strategic Metals Ltd.	Queen	Staked the Queen claims.	n/a
2015	Rockhaven Resources	Queen	Rockhaven acquired Queen	n/a

	Ltd.		claims from Strategic.	
2015 (Tarswell, Walsh and Cruz, 2016)	Rockhaven Resources Ltd.	Queen	Soil geochemical sampling	The best soil sample returned 119 ppb gold
2017	Rockhaven Resources Ltd.	Val	Geophysical survey	n/a

Val Claim Area

The first recorded lode gold discovery in the MNGC was made by prospectors Brown and McDade in 1943 about two kilometres south of the Val claims, on lands that are now managed by the Alexco Joint Venture.

The area of the current Val claims was first staked as the Billy claims by G. Dickson, as part of a larger claim block. In 1958, Asbestos Corporation Exploration Ltd. optioned Dickson's claims and performed mapping, two bulldozer trenches and eight packsack drill holes totalling 122.8 m. Trenching exposed a quartz-feldspar porphyry dyke, located roughly 500 m southwest of the current Val claims, while the drill core contained zones of intense kaolinization and sericitization, hosting galena and pyrite (Robinson, 1959).

In 1981 and 1985, the southwestern part of Work Area 3 was re-staked as the DD claims and the ONT claims by BYG. In late 1985, Chevron optioned claims that covered much of the MNGC from BYG and, from 1986 to 1988, it completed exploration programs that comprised mapping, soil geochemistry, geophysical surveys, trenching and diamond drilling. These programs included a soil geochemical survey that identified a multi-element anomaly (gold, silver, zinc, antimony, arsenic, cadmium, bismuth, copper and molybdenum) trending north-northwest across the current Val claims. Chevron dropped its option in late 1988.

In 2003, B. Trerice staked the Val claims in conjunction with his placer activities along Back Creek.

In 2011, Rockhaven signed an option agreement with B. Trerice, acquiring the right to earn a 100% interest in the Val property.

In 2012, Rockhaven collected 392 soil samples from the claims. Soil results were highlighted three clusters of anomalous gold and silver values. Placer gold operations within Back Creek exposed a number of vein faults that were sampled by Rockhaven. The best chip sample returned 0.113 g/t gold and 1.66 g/t silver over 3.0 m.

In 2013, Rockhaven completed 330 m of excavator trenching in two trenches. These trenches exposed three mineralized veins emplaced along or near the footwall contact of a quartz-feldspar porphyry dyke. These veins strike between 135° to 155°, and dip steeply to the east. Trenches returned 3.09 g/t Au with 5.93 g/t Ag over 1.00 m and 1.91 g/t Au with 131 g/t Ag over 1.30 m.

In 2017, Rockhaven contracted SJ Geophysics to conduct a magnetic and induced polarization survey on the Val claim group. The Val grid surveys (Figures 23 and 24) show apparent northwest-southeast trending linears similar to those seen in the main Klaza Vein System.

Queen Claim Area

There is very little historical information available on the Queen claim block, which lies north and east of the lands that are under administration of the Alexco Joint Venture.

From 1986 to 1988, the historical McDade claim block (consisting of 354 contiguous mineral claims) covered much of the central and northern portions of the current Queen claims. Gold-bearing quartz float was discovered in five zones during the summer of 1986. In 1987 and 1988, some zones were evaluated by bulldozer trenching, mapping and geochemical sampling. Two of these zones are on the current Queen claims, and the rest lie immediately to the east, off the claims. Results from the two zones include grab samples from bulldozer trenches, which graded up to 8.74 g/t gold and 57.6 g/t silver, and an area of high grade float near Montgomery Creek, where samples returned up to 15.67 g/t gold.

A small portion of the current Queen claims was also staked by E. Curley as the Ang 1-8 claims in 1995 and the Ang 9-20 claims in 1997 (YGS Minfile 115I 123). Curley completed exploration programs on the Ang claims that included soil geochemistry and trenching. The trenches exposed quartz-feldspar porphyry dykes. No assays were reported.

In spring 2015, Strategic staked the Queen claims and later that year, Rockhaven acquired them from Strategic as part of a large property-swap transaction. Rockhaven collected 20 soil samples from the Queen claims, with the best sample returning 119 ppb gold.

Table 7: Work Area 5 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1996	Conquest Yellowknife Resources Ltd.	Cow	Geophysics VLF-EM, magnetometer	Delineated multiple VLF-EM and magnetic anomalies.
2015	Strategic Metals Ltd.	Nor	Staked Nor claims 1-74	n/a
2015	Rockhaven Resources Ltd.	Nor	Rockhaven acquired Nor claims from Strategic	n/a

In 1996, Conquest Yellowknife Resources Ltd. contracted SJ Geophysics Ltd. to conduct VLF-EM and magnetometer surveys over the Buffalo grid on its Cow claims (Dujakovic and Visser, 1996).

In early 2015, Strategic staked Nor 1-74 claims and, later that year, Rockhaven acquired those claims from Strategic as part of the property-swap transaction.

Table 8: Work Area 6 – Exploration History

Year of Work (Report)	Owner/ Operator	Claim Group/Target	Work Performed	Results
1965	Mount Nansen Mines Ltd.	Bit	Staked Bit claims 1-6	n/a
1966	Mount Nansen Mines Ltd.	Bit	Mapping and geochemical sampling	n/a
1971	Area Exploration Company Ltd.	Bit, Rusk	Optioned the Bit claims and staked Rusk claim 1-39.	n/a
1972	Area Exploration Company Ltd.	Rusk	Grid soil sampling	n/a
1973	Area Exploration Company Ltd.	Rusk	Drilled one diamond drill hole.	n/a
1974	J. Dickson	Lone	Staked around the Lonely porphyry	n/a
1976	G. Dickson	LD, Swiss	Restaked as LD cl 1-14	n/a
1979	G. Dickson	LD, Swiss	Restaked as Swiss cl 1-62	n/a
1980	G. Dickson	LD, Swiss	Trenching	n/a
1981	G. Dickson	LD, Swiss	Trenching	n/a
1983	G. Dickson	J. Bill	Restaked as J. Bill cl 1-32	n/a
1984	G. Dickson	Rat, Bull	Trenching, added Rat c1 1-24 and Bull cl 1-28	n/a
1984	Kerr Addison Mines Ltd.	Lone	Re-examined Lonely showing	Rock samples returned up to 1.65 g/t Au and 14.8 g/t Ag.
1985	Kerr Addison Mines Ltd.	Lone	Staked the Only claims around the Lonely showing	n/a
1986	Kerr Addison	Lone	Conducted geological	Maximum gold-in-soil was 150 ppb. VLF-EM

	Mines Ltd.		mapping, soil geochemistry, and a VLF survey.	outlined two north-northwest trending anomalies.
1987	E. Curley	Dows	Dows claims were staked. Hand trenching	n/a
1988	Noranda Exploration Company Ltd.	Dows	Optioned and expanded the Dows claims. Mapping, grid soil sampling, mechanized trenching, and geophysical surveys	The best soil sample returned 490 ppb gold, 4.4 ppm silver, 1,100 ppm arsenic and 13,200 ppm mercury.
1988	Kerr Addison Mines Ltd.	Lone	Completed 17 soil pits and one hand trench.	Best rock samples from pits returned 115 ppb Au, 555 ppm Cu, and 115 ppb Ag.
1989	Noranda Exploration Company Ltd.	Dows	One diamond drill hole.	Intersected a quartz breccia, which averaged 2.43 g/t gold over 7.5 m including 10.2 g/t gold over 1.5 m.
1995	Atna Resources Ltd.	Dows	Optioned Dows claims from E. Curley. Mapping, trenching, soil sampling, chip sampling.	n/a
1995	Conquest Yellowknife Resources Ltd.	Dows	Optioned the property from Atna. Staked the Dows 119-124 claims.	n/a
1995	Aurchem Exploration Ltd.	J. Bill, Rat, Bull	Aurchem acquired Dickson's claims J Bill, Rat, and Bull	n/a
1996	Conquest Yellowknife Resources Ltd.	Dows	Diamond drilling.	Anomalous drill intersects, 5.51 g/t gold and 13.13 g/t silver over 2.61 m (DDH-96-2); 6.64 g/t gold with low silver over 5.90 m

				(DDH-96-6); and 0.34 g/t gold with 5.09 g/t silver over 11.10 m (DDH-96-8)
2003	Aurchem Exploration Ltd.	J. Bill	Limited soil sample program. Pre-stripping for future trenching.	n/a
2006	R. Hulstein	Desk	Staked expired Dows claims as Desk.	n/a
2009	Strategic Metals Ltd.	Sked	Stakes Sked claims.	n/a
2010	Strategic Metals Ltd.	Sked	Grid soil sampling	The best results from soil sampling were strongly anomalous arsenic (up to 181 ppm) and copper (up to 140 ppm) and background to weakly anomalous gold (up to 23 ppb), lead (up to 14 ppm) and zinc (up to 85 ppm).
2010	Wolverine Minerals Corp.	Desk, Sked	Wolverine purchased Desk and Sked claims.	n/a
2010	Strategic Metals Ltd.	Desk	Strategic purchased the Desk claims.	n/a
2013	Strategic Metals Ltd.	Sked	The Sked claims reverted to Strategic.	n/a
2015	Rockhaven Resources Ltd.	Desk, Sked	Rockhaven acquired the Desk and Sked claims from Strategic.	n/a
2016	Rockhaven Resources Ltd.	Rusk	Contour soil sampling	Soil sampling highlighted a 1,800 by 1,500 m zone of elevated arsenic.
2017	Rockhaven Resources Ltd.	Rusk	Prospecting	Rock samples returned values up to 2.82 g/t gold and 2,070 g/t silver.

Work Area 6 is on the western edge of the MNGC. For discussion purposes, this Work Area is subdivided into two general claim areas, as described below.

J. Bill Claim Area

In 1965, Mount Nansen Mines staked the Bit 1-6 claims southeast of Mt. Nansen and, in 1996, it performed mapping and soil sampling on those claims.

In 1971, Area Exploration optioned the Bit claims and expanded the claim block by adding the Rusk 1-39 claims (Eaton and Walls, 1987). In 1972 and 1973, Area Exploration conducted a program that included grid soil sampling, mapping and one diamond drill hole (180 m).

G. Dickson restaked the Bit area as the LD 1-14 claims in 1976, and as the Swiss 1-62 claims in 1979 (YGS Minfile 115I 096).

In 1980 and 1981, G. Dickson conducted trenching.

In 1983, G. Dickson restaked the area again as J. Bill 1-32 claims.

In 1984, G. Dickson conducted trenching on the J. Bill claims and added the Rat 1-24 claims to the south and the Bull 1-8 claims to the east.

In 1986, part of Dickson's claims area was optioned to Chevron, which completed geological mapping, grid soil sampling, EM-16 surveys and bulldozer trenching in 1986 and 1987, before dropping the option.

In 1994, the J. Bill, Rat and Bull claims were transferred to J. Dickson and, in 1995, those claims were transferred to Aurchem.

From 1995 to 1998, the J Bill, Rat, and Bull claims were optioned to BYG by Aurchem. BYG carried out a drilling program near Tit Mountain, in an area that partially overlaps with the northeastern corner of Work Area 6.

In 1999, the J. Bill, Rat, and Bull claims reverted to Aurchem.

In 2003, Aurchem conducted a small soil sample program on the J. Bill 28 and 30 claims in the northeast corner of Work Area 6.

In 2016, Rockhaven re-excavated and sampled trenches from the historical Maniac Mining camp on the J.Bill and Rat claims, followed by contour soil geochemical sampling in the Rusk area. Soil sampling defined an 1,800 by 1,500 m area of strongly elevated arsenic (up to 1,900 ppm) values with locally elevated gold (up to 181 ppb) (Turner and Willms, 2017).

In 2017, Rockhaven completed a follow up prospecting program in the Rusk Area. Vein float from volcanic talus returned up to 2.82 g/t gold and 2,070 g/t silver (Turner and Cruz, 2018).

Sked/Desk Claim Area

In 1987, E. Curley staked the Dows claims after obtaining elevated gold values from float samples taken from hand trenches. Later that year, two back-hoe trenches were dug to bedrock near the hand trenches and exposed an area of silicification and clay alteration at a contact between quartz-feldspar porphyry dykes and schistose country rocks (Galambos, 1988). This area is on the current Desk claims.

In early 1988, Noranda optioned and expanded the Dows claims. That year, Noranda conducted mapping, grid soil sampling, mechanized trenching and geophysical surveys. Surface mapping was largely unsuccessful due to lack of bedrock exposures. A total of 673 soil samples, taken on a 25 x 100 m grid, identified a northeast-southwest trending anomaly with strongly enriched in arsenic and mercury, with spotty gold and silver values. The two best soil samples returned: 1,100 ppb gold, 2.0 ppm silver, 460 ppm arsenic and 1,100 ppb mercury; and, 490 ppb gold, 4.4 ppm silver, 1,100 ppm arsenic and 13,200 ppb mercury. A total of 39 rock and 134 chip samples were also collected during the 1988 program. The best specimen sample yielded 3.89 g/t gold and 6.9 g/t silver, while the trenching uncovered three zones of gold enrichment ranging from four to thirty metres wide. Geophysical surveys on the Dows claims included a 43 line kilometre magnetometer survey, a 4.6 line kilometre VLF survey and a four line kilometre induced polarization survey. A broad magnetic low coincides with the high soil geochemical values, but these features are cut off to the north by a zone of low resistivity (Galambos, 1988).

Later in 1988, Noranda conducted an additional soil geochemical sampling and a diamond drilling program that comprised five holes totalling 388.01 m. Due to strong clay alteration, core recovery was poor. No significant results were reported, and it was suggested that the mineralization might not follow the same orientation as the soil geochemical anomaly (Galambos, 1989).

In 1989, Noranda completed a single diamond drill hole (198 m). That hole intersected a section of quartz breccia, which averaged 2.43 g/t gold over 7.5 m including 10.2 g/t gold over 1.5 m. Despite this positive result, the claims were returned to E. Curley (Schmidt, 1996).

In 1992, E. Curley jointly funded a 761 m trenching program with Noranda. Sixty-three channel, two rock and six soil samples were taken, but no significant results were reported (Schmidt, 1996; Mann and Slack, 1996).

In 1995, Atna optioned the Dows claims from E. Curley. A limited trenching program comprising 59 chip samples, 17 rock samples, and 12 soil samples was completed. Trenching confirmed previous results, but failed to extend mineralization to the northwest. BYG also mapped and sampled the trenches in the same year (Mann and Slack, 1996).

In late 1995, Conquest sub-optioned the Dows claims from Atna and staked more claims.

In 1996, Conquest completed two diamond drill programs totalling 1,418 m in 11 holes. This drilling identified a wide zone of intense deformation, which hosts gold mineralization (Schmidt,

1996). Several anomalous intervals were intersected including: 5.51 g/t gold and 13.13 g/t silver over 2.61 m (DDH-96-2); 6.64 g/t gold over 5.90 m (DDH-96-6); and 0.34 g/t gold and 5.09 g/t silver over 11.10 m (DDH-96-8).

The various generations of Dows claims expired between 2001 and 2006. In 2006, R. Hulstein re-staked the area of Desk claims.

In winter 2009, Strategic staked the Sked claims to cover the along-strike projection of the mineralized zone on the Desk claims. In summer 2010, Strategic expanded its claim block to the northwest to cover a historical gold anomaly located on the west side of an unnamed tributary of Lonely Creek.

In 2010, Strategic conducted a geochemical sampling program comprising small grids to the northwest and southeast of the Desk claims (Chung, 2011). Results from this sampling returned values up to 23 ppb gold, 181 ppm arsenic, 140 ppm copper, 14 ppm lead and 85 ppm zinc.

In September 2010, Wolverine signed an optional purchase agreement with Strategic for the Sked claims and, in December 2010, it signed another optional purchase agreement with R. Hulstein for the Desk claims.

In 2013, the Sked claims reverted to Strategic, which later purchased the Desk claims.

In July 2015, Rockhaven acquired the Desk and Sked claims via a property-swap transaction with Strategic.

In 2017, a two-person team conducted a one day prospecting program of the previously trenched Sked/Desk claim area. The objective was to confirm the extent of limestone and marble units identified by Noranda, to follow up on grab samples taken in 2016, and to obtain further samples of the marble for whole rock analysis.

GEOMORPHOLOGY

The property is situated in the southern part of the Dawson Range, a belt of low mountains, hills and relatively mature river systems. It is drained by tributaries of the Klaza River, Nansen Creek and Victoria Creek, all of which flow into the Nisling River, part of the Yukon River watershed.

Elevations range from 1,200 to 1,800 m above sea level (asl), and tree-line is at about 1,450 m asl.

The property escaped Pleistocene continental glaciation but experienced some local Pleistocene to Holocene valley and alpine glaciation. Outcrop is rare throughout the property. Overburden consists of variable amounts of organics, 0 to 5 cm of volcanic ash and up to 200 cm of loess and immature soil mixed with locally derived rock fragments, over weathered bedrock. At lower elevations, thick layers of fluvial material, glacio-fluvial outwash and till blanket the valley floors. Permafrost is extensive, particularly on north- and west-facing slopes.

The property has a continental climate with low levels of precipitation and a wide temperature range. Summers are normally warm with extended daylight hours whereas winters are long and cold. Although summers are relatively warm, snowfall can occur in any month. The property is mostly snow free from late May to late September. Summer temperatures in the nearby community of Carmacks average approximately 18 ºC during the day and 5 ºC at night. Winter temperatures average -12 ºC during the daytime. Total annual precipitation recorded between 1961 to 1990 period averaged 277 mm, with about 92 cm of snow (Environment Canada, 2015).

GEOLOGICAL SETTING

The MNGC was visited by J.B. Tyrrell and D.D. Cairnes of the Geological Survey of Canada in 1898 and 1914, respectively, and has been mapped by H.S. Bostock (1936) and G.G. Carlson (1987). The geology was revised in a compilation by Gordey and Makepeace (2000). The following discussion is primarily based on maps prepared by Gordey and Makepeace and the Yukon Geological Survey (YGS).

The property lies within the Yukon-Tanana Terrane (YTT) approximately 100 km southwest of the Tintina Fault and 100 km northeast of the Denali Fault (Figure 5). YTT comprises a variety of Proterozoic and Paleozoic metavolcanic, metasedimentary and metaplutonic rocks, which represent both arc and back-arc environments (Colpron and Nelson, 2006; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that underwent approximately 450 km of dextral strike-slip movement during the Eocene. This movement offset an outlier of YTT in the Finlayson Lake District of southeastern Yukon from the main body of YTT, which lies southwest of the fault. The Denali Fault is another major transcurrent structure that has seen hundreds of kilometres of dextral strike-slip movement.

Regional lithologies in the area of the property are summarized in Table 9.

Table 9: Regional Lithologies

UPPER CRETACEOUS	
uKC	**uKC: CARMACKS** a volcanic succession dominated by basic volcanic strata (1), including felsic volcanic rocks dominantly (?) at the base of the succession (2) and locally, basal clastic strata (3) 1. augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks **(Carmacks Gp., Little Ridge Volcanics, Casino Volcanics)** 2. acid vitric crystal tuff, lapilli tuff and welded tuff (including feeder plugs and necks); felsic volcanic flow rocks and quartz feldspar porphyries; green and purple massive tuff-breccia with feldspar phyric fragments **(Carmacks Gp., Donjek Volcanics)**

	▪ Some rocks formerly mapped as Mount Nansen (mKN); the felsic component of the Carmacks Gp. is difficult to distinguish from similar Tertiary and Mid-Cretaceous felsic volcanic strata (Mount Nansen Gp.) 3. medium bedded, poorly sorted, coarse to fine grained sandstone, pebble conglomerate, shale, tuff, and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate **(Carmacks Gp.)**
LATE CRETACEOUS	
LKgP	**LKP: PROSPECTOR MOUNTAIN SUITE** grey, fine to coarse grained, massive, granitic rocks of felsic (q), intermediate (g) and rarely mafic (d) composition plus related felsic dykes (f) q. quartz monzonite, biotite quartz rich granite; porphyritic alaskite and granite with plagioclase and quartz-eye phenocrysts; biotite and hornblende quartz monzodiorite, granite, and leucocratic granodiorite with local alkali feldspar phenocrysts **(Prospector Mountain Suite, Carcross Pluton).** g. hornblende-biotite granodiorite, hornblende diorite, quartz diorite **(Wheaton Valley Granodiorite)** d. coarsely crystalline gabbro and diorite f. quartz-feldspar porphyry
LKgC	**LKC: CASINO SUITE** grey, fine to coarse-grained, massive, granitic rocks of intermediate (g) composition and related felsic dykes (f) g. hornblende-biotite granodiorite, hornblende diorite, quartz diorite **(Wheaton Valley Granodiorite)** f. quartz-feldspar porphyry
MID-CRETACEOUS	
mKN	**mKN: MOUNT NANSEN** massive aphyric or feldspar-phyric andesite to dacite flows, breccia and tuff; massive, heterolithic, quartz- and feldspar-phyric, felsic lapilli tuff; flow-banded quartz-phyric rhyolite and quartz-feldspar porphyry plugs, dykes, sills and breccia **(Mount Nansen Gp., Byng Creek Volcanics, Hutshi Gp.)**

mKdW	**mKW: WHITEHORSE SUITE** grey, medium to coarse grained, generally equigranular granitic rocks of felsic (q), intermediate (g), locally mafic (d) and rarely syenitic (y) composition: q. biotite quartz-monzonite, biotite granite and leucogranite, pink granophyric quartz monzonite, porphyritic biotite leucogranite, locally porphyritic (K-feldspar) hornblende monzonite to syenite, and locally porphyritic leucocratic quartz monzonite **(Whitehorse Suite, Casino Intrusions, Mount McIntyre Suite, Mount Ward Granite, Coffee Creek Granite)** g. biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts **(Whitehorse Suite, Casino Granodiorite, McClintock Granodiorite, Nisling Range Granodiorite)** d. hornblende diorite, biotite-hornblende quartz diorite and mesocratic, often strongly magnetic, hypersthene-hornblende diorite, quartz diorite and gabbro **(Whitehorse Suite, Coast Intrusions)** y. hornblende syenite, grading to granite or granodiorite

EARLY JURASSIC	
EJgL	**EJL: LONG LAKE SUITE** intermediate (g) to felsic (q) granitoid rocks: g. massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite, including abundant pegmatite and aplite phases; commonly K-feldspar megacrystic **(Long Lake Suite)** y. resistant, dark weathering, massive, coarse to very coarse grained and porphyritic, mesocratic hornblende syenite; locally sheared, commonly fractured and saussuritized; has well developed layering of aligned pink K-feldspar **(Big Creek Syenite)**
LATE TRIASSIC	

LTrS	**LTrS: STIKINE SUITE** coarse-grained, foliated, gabbroic hornblende orthogneiss; coarse-grained hornblende-biotite granite and granodiorite with K-feldspar megacrysts; foliated, fine to medium-grained hornblende quartz diorite to diorite with minor biotite **(Friday Creek diorite, King Lake granite)**:
UPPER DEVONIAN TO LOWER MISSISSIPPIAN	
DMF	**DMF: FINLAYSON** assemblage of mafic (1) to felsic (2) metavolcanic rocks of arc and back-arc affinities; carbonaceous pelite, metachert (3); minor quartzite, metavolcaniclastic rocks (4); marble (5); ultramafic rocks and metagabbro (6) 1. Medium to dark green intermediate to mafic volcanic and volcaniclastic rocks; fine-grained amphibolite and greenstone **(Little Kalzas, Ram Creek, Cleaver Lake, Tutchitua, Fire Lake fms; Big Salmon complex)** - DMFv 2. Felsic metavolcanic rocks, white quartz-muscovite schist, metaporphyry **(Kudz Ze Kayah, Wolverine, Waters Creek fms)** - DMFf 3. Dark grey to black carbonaceous metasedimentary rocks, metachert **(Nisana, Swift River, Grass Lakes, Wolverine fms)** - DMFbp 4. light green to grey, fine-grained siliciclastic and metavolcaniclastic rocks; arkosic grit and sandstone; chert and minor limestone **(Drury, Pelmac, Little Kalzas, Tutchitua fms; Big Salmon complex)** - DMFs 5. light grey to white marble, locally crinoidal **(Little Kalzas fm)** – DMFc 6. ultramafic rocks, serpentinite; metagabbro **(Fire Lake fm)** – DMFum
EARLY MISSISSIPPIAN	
MgSR	**MSR: SIMPSON RANGE SUITE** foliated granitoid of mainly granodiorite to tonalite composition (g), locally granite and augen granite (q), rare gabbro (gb) g. Foliated to strongly foliated, fine to medium-grained, hornblende-bearing metagranodiorite, metadiorite and metatonalite q. Foliated metagranite, quartz monzonite and granodiorite; augen granite gb. Locally, metagabbro

NEOPROTEROZOIC AND PALEOZOIC	
PDS	**PDS: SNOWCAP** assemblage of dominantly metasiliciclastic rocks (1); minor marble (2), mafic metavolcanic rocks (3) and ultramafic rocks (4); locally metamorphosed to blueschist and eclogite facies (5) 1. Polydeformed and metamorphosed quartzite, psammite, pelite and marble; minor greenstone and amphibolite **(Snowcap, Dorsey, part of Big Salmon complexes; North River fm)** – PDss 2. Light grey to buff weathering marble, generally lenticular and discontinuous - PDsc 3. Medium to coarse-grained amphibolite, commonly garnet-bearing; greenstone; minor marble **(Snowcap, Dorsey complexes)** – PDsv 4. ultramafic rocks, serpentinite; metagabbro; metapyroxenite **(Dorsey complex)** – PDsum 5. metasiliciclastic and mafic meta-igneous rocks locally metamorphosed to eclogite bluschist **(Quiet Lake, Faro-Ross River, Simpson Lake)** – PDse

Regionally, basement rocks are mainly comprised of metaplutonic, metasedimentary and metavolcanic schist and gneiss units belonging to the Simpson Range Suite and Snowcap and Finlayson Assemblages (Ryan et al., 2016). These rocks are cut by weakly foliated plutonic rocks from the Long Lake Suite, which were metamorphosed and uplifted in the Jurassic along with the schists and gneisses. The youngest rocks are represented by five plutonic and coeval volcanic units that were emplaced during the Cretaceous and Tertiary. Granite, granodiorite and monzonite units belong to the Whitehorse Suite, Prospector Mountain Suite and Casino Suite, while the volcanic units are a part of the Mount Nansen volcanic and Carmacks volcanic Groups (Sanchez et al., 2014).

Casino and Prospector Mountain Suite rocks are of particular significance, because they are associated with porphyry and epithermal deposits in the Dawson Range Gold Belt. Intrusions related to the Casino Suite and Prospector Mountain Suite were emplaced from 72 to 79 Ma and 68 to 72 Ma, respectively.

PROPERTY GEOLOGY

Detailed mapping on the property is generally limited by sparse outcrop and extensive vegetative cover. The geology map, shown on Figure 6, has been interpreted from regional mapping, trenching, drilling and geophysical surveys done on various parts of the property over the last 50 years.

The oldest exposed unit, comprised of Snowcap Assemblage schists, limestones and amphibolites, underlies a large region to the west and south of the property. In the southern and

eastern parts of the property, orthogneiss belonging to the Simpson Range Suite surrounds younger Finlayson Assemblage metavolcanics. These Paleozoic units are sporadically intruded by irregular bodies of Stikine Suite orthogneiss and granite.

The central, northern and western parts of the property are dominantly underlain by Mid-Cretaceous Whitehorse Suite granodiorite and coeval sub-aerial volcanic and volcaniclastic rocks of the Mount Nansen volcanics. Whitehorse Suite granodiorite is made up of coarse-grained, non-foliated granodiorite, which is comprised of approximately 30% hornblende and biotite. Mount Nansen volcanics are comprised of medium green to grey andesite flows and pyroclastic rocks with occasional buff to tan rhyolitic tuff.

A monzogranite to granodiorite stock intrudes Whitehorse Suite granodiorite in the southeastern corner of Work Area 2. This stock, which is part of the Mount Nansen Porphyry Complex (MNPC), is thought to be the main heat source that drove hydrothermal cells responsible for mineralization on the property. This pluton, along with associated feldspar porphyry dykes scattered throughout the property, consist of superimposed porphyry systems belonging to the Casino Suite and Prospector Mountain Suite. Geochronological work indicates that porphyry dykes, which are spatially associated with vein mineralization on the property, are Casino Suite (78.2-76.3 Ma) (Mortensen et al., 2016) and Prospector Mountain Suite (71.35 Ma) in age (Lee, 2021).

A series of northwesterly trending feldspar porphyry dykes emanate from the MNPC, cutting Whitehorse Suite granodiorite in the area of the KVS. These porphyry dykes, which are up to 30 m wide, are comprised of buff aphanitic groundmass containing up to 15% orthoclase phenocrysts (1 to 2 mm) with minor biotite and quartz phenocrysts. Commonly the dykes occupy the same structural zones as the mineralized veins, and are often strongly fractured. Some veins are found to cross-cut dykes, indicating these dykes are pre-mineralizing structures.

Two main fault trends, northwesterly and northeasterly, are present in the MNGC and are best documented where they are delineated by trenching and drilling at the KVS. The first set strikes northwesterly, dipping between 60° and 80° to the southwest. Although these faults lack strong topographic expression, they host mineralized veins, breccia zones and appear to control the distribution of porphyry dykes. The second set of faults strike northeasterly, almost perpendicular to the primary set, and dip sub-vertically. They form prominent topographic linears and offset mineralized zones in a number places, creating apparent left lateral displacements of up to 80 m in magnitude. The exact relationship between these structures and the mineralized northwesterly trending structures is still uncertain, but they appear to have been in part coeval and may have played an important role in ground preparation. A third set of structures are slightly oblique to the main mineralized faults, striking more westerly. They are less continuous and are considered to be Riedel shears. High-grade mineralization is sometimes localized at junctions between these shears and the northwesterly trending structures.

MINERALIZATION

The KVS lies within the northern part of the MNGC, a northwesterly elongated structural belt that hosts more than 30 known mineral occurrences (Figure 7). Gold- and silver-rich veins

within the MNGC dominantly occur in northwesterly trending structures. The MNGC is cored by porphyry copper-molybdenum centres, and ranges outward to epithermal vein systems that are comprised of sheeted vein and fracture complexes, and more distally to discrete base and precious metal veins. The mineralizing events within the MNGC are interpreted to be related to the emplacement of the Late Cretaceous Casino Suite and Prospector Mountain Suite intrusions. The generalized metal zonation model for the KVS is shown on Figure 8.

Two porphyry centres have been identified in the northern part of the MNGC, the Cyprus and Kelly porphyry systems, which are both related to the MNPC. The larger and better defined porphyry centre, the Cyprus Zone, is partly covered by the claims in the southeastern corner of Work Area 2. It was a focal point of exploration in the late 1960s and early 1970s, with approximately 26 drill holes totalling 4,500 m. Average hypogene grades of 0.12% copper and 0.01% molybdenum were reported at depths exceeding 60 to 90 m below surface. Hypogene copper grades are approximately double those in the overlying leached cap. There is no significant supergene enrichment zone. Locally higher grade zones (0.6% copper and 0.06% molybdenum) and elevated precious metal values are associated with intense fracturing found in weakly potassic altered areas within the dominantly phyllic altered porphyry system. The potassic altered areas often feature tourmaline breccias, abundant quartz veining and secondary biotite (Sawyer and Dickinson, 1976).

The western porphyry centre, the Kelly Zone, was explored as early as 1971. The Kelly Zone is defined by coincident geochemical and geophysical anomalies, which include: 1) strongly elevated gold, copper and molybdenum soil geochemical values; 2) high chargeability values with moderate resistivity; and 3) a large area of low magnetic susceptibility observed in both ground and airborne surveys. These coincident anomalies cover a semicircular area approximately 2,500 m in diameter. Trenching and diamond drilling conducted in 2012 by Rockhaven on the western edge of the Kelly Zone, identified minor chalcopyrite, chalcocite and molybdenum, with rare bornite. The mineralization is hosted in several, 25 to 100 m wide bands of strongly phyllic altered and heavily quartz veined granodiorite, which are separated by barren porphyry dykes. A drill hole from the 2012 program averaged 0.14 g/t gold, 2.7 g/t silver, 0.15% copper, and 0.010% molybdenum over 95.15 m, including 0.22 g/t gold, 0.20 % copper and 0.012 % molybdenum over 25.99 m (KL-12-134).

The majority of Rockhaven's exploration activities have been conducted in the KVS, in the distal part of the local hydrothermal system where copper-deficient, precious metal rich veins predominate. To date, twelve main mineralized structural zones have been identified to the northwest of the Kelly and Cyprus porphyry targets. The structural zones collectively form a three kilometre wide corridor that cuts northwesterly through Mid-Cretaceous granodiorite country rocks for a length of up to four kilometres. Individual zones exhibit exceptional lateral and down-dip continuity, and all of them remain open for extension along strike and to depth. From south to north, the zones are named Rex, Chevron, Dickson, AEX, BRX, Pika, Stroshein, Herc, BYG, Klaza, Pearl and Victoria. These zones are sub-divided into Western, Central and Eastern components, based on structural offsets that segment the main zones. Exploration work has focused mainly on the Klaza and BRX zones. The eastern segments of the AEX, BRX, Pika and Stroshein veins are collectively known as the Eastern Zones. The current mineral resource

estimate contains mineralization from parts of the Western BRX, Central BRX, Western Klaza, Central Klaza and Central BYG zones.

The main mineralized structural zones in the KVS range from 1 to 100 m wide and are generally associated with feldspar porphyry dykes. Mineralization occurs within veins, sheeted veinlets and tabular breccia bodies. The host granodiorite is magnetite-bearing, except in alteration halos and vein zones where hydrothermal destruction of magnetite occurs. The host granodiorite exhibits pervasive argillic and phyllic alteration immediately adjacent to and up to 30 m from mineralized structures, as well as discrete carbonate alteration up to 8 m from mineralized structures. Sericite and potassic alteration are developed directly adjacent to hydrothermal channel ways. Details of the alteration facies proximal to the structural zones are discussed in more detail later in this section.

The depth of surface oxidation in the KVS ranges from 5 to 100 m below surface, depending on fracture intensity, the type of mineralization and local geomorphology. The deepest weathering occurs in wide, pyritic vein complexes located along ridge tops or on south-facing slopes.

Measurements taken from oriented drill core and surface trench exposures have identified two main structural orientations that control mineralization in the KVS. The primary structural set strikes between 135˚ and 155˚ and dips 60˚ to 80˚ to the southwest. A second structural trend strikes between 110˚ and 130˚ and dips 60˚ to 70˚ to the south. These secondary structures may represent either Riedel shears of the primary structural set or a separate structural event. Strong gold mineralization is sometimes localized in areas where the two structural trends converge. The plunge of these structural intersections is towards the southeast.

Petrographic analysis completed in 2011 by John Payne, Ph.D., P.Geo., of Vancouver Petrographics found that veins, veinlets and breccia material from the KVS hosts disseminated to semi-massive pyrite, arsenopyrite, galena, sphalerite, stibnite and silver-bearing sulpohosalts (collectively referred to as Jamesonite) in quartz, carbonate and barite gangue (Payne, 2012). Metallurgical studies completed by Rockhaven indicate that tetrahedrite is also present and is a major host to high-grade silver mineralization. The sulphide minerals typically comprise 1 to 10% of secondary veins and altered wallrocks, often increasing to between 20 and 80% in veins that range from 25 to 200 cm wide. Petrographic and metallurgical work also identified native gold/electrum as inclusions and fracture-fill in pyrite and arsenopyrite (Dumala et al., 2015; Lee et al., 2021).

Quartz is the dominant gangue mineral in veins. It occurs in a variety of epithermal textures including chalcedonic, comb, banded, speckled and vuggy. Smoky quartz is the most common variation, but milky and clear quartz are locally abundant. Carbonate minerals occur mainly as ankerite, rhodochrosite and siderite, and typically range between 5 and 20% of the veins by volume.

Brecciation forms tabular bodies consisting of heterolithic wallrock clasts, which include granodiorite and various volcanic or sub-volcanic lithologies. Matrices are enriched with fine-grained, disseminated to blebby pyrite, arsenopyrite, sphalerite, and galena. Breccia zones are

found in most veins from the KVS, but are mostly observed within drill core from the Klaza Zone where they range up to 2 m in width.

Mineralization within most structures is spatially related to porphyry dykes, which strike northwesterly and dip steeply to moderately toward the south. The dykes pinch and swell in three dimensions and are generally unmineralized. Mineralization is usually found along the outer selvedges, and does occasionally crosscut the porphyry dykes, indicating both the veins and dykes have multiple fluid phases.

Two parallel, northeast-trending faults have been observed cutting across the northwestern portion of the Klaza and BRX zones. These northeasterly cross-faults appears to offset the western sections of the mineralized zones approximately 80 m to the south; however, the exact sense of motion is uncertain. Systematic detailed exploration work has not been conducted on the western side of the most westerly cross-fault, and displacement across this structure has not been determined. The western-most cross fault; however, appears to be the stronger of the two structures. The relative timing of movement on these faults has not yet been determined, but they are thought to be coeval to, or slightly younger than, the vein structures. Strongly mineralized sections of vein-hosting structures occur in what may be dilatant zones immediately east of the cross-faults. Drill holes and trenches are aligned subparallel to the orientation of the cross-faults; therefore, only a few holes have intersected them. Fragments and clasts of mineralized vein material are reported in holes that intersected the northeast trending faults, but the extent to which they are mineralized is not yet known.

At the Klaza Zone, the northeasterly trending cross-faults mark a sharp change in mineralogy, with increasing arsenopyrite and sulphosalt contents coupled with higher silver:gold ratios in the Western Klaza Zone relative to the Central Klaza Zone. At the BRX Zone, the same cross-fault separates bonanza-grade rhodochrosite-facies mineralization in the Western BRX Zone from lower-grade, iron-carbonate facies mineralization in the Central BRX Zone. Recent work shows that these Western segments have significant faulting and structural preparation, which allows for greater fluid transport and mineral precipitation. Syn- to post-mineralizing structures in these Western segments have also been found to readily remobilize and liberate gold from refractory pyrite, into bonanza-grade areas of mineralization (Lee et al., 2021).

Mineralization outside of the KVS

Historical work on the property has identified other mineralized trends that require further investigation. The most noteworthy of these veins are found in Work Areas 2, 3, 4, and 6, and are described below.

Work Area 2

Veining on the Vic, JCS, and VG claims consists of grey-white quartz veins ranging from 3 cm to 2 m wide. The dominant vein system trends east-west, dips to the south, and is hosted in a syenite porphyry (Ellemers and Stroshein, 2005). Geophysical and geochemical data suggests that more veins may be discovered to the northeast and southwest of the KVS, which is

discussed in further detail in the Soil Geochemical Sampling and Geophysical Surveys sections of this report.

Work Area 3

Mineralization on the Dade claims is hosted in two, sinusoidal zones of quartz veining and stockwork veinlets (V1 and V2 veins). These veins are believed to strike about 040° and dip 60°-75° to the north. They cut coarse-grained hornblende-quartz granodiorite and diorite gneiss (Burrell, 2013a). The V1 (formerly the Grizzly Vein) and V2 veins exhibit pervasive silicification, calcification and moderate to strong clay alteration. In 2011, trenching exposed the V1 vein over widths of 9 to 20 m along a 175 m strike length and the V2 vein over widths of 2 to 12 m along a 125 m strike length (Burrell, 2013a). Where mineralized, the veins comprise white to grey quartz with boxwork limonite and 1-3% disseminated arsenopyrite and pyrite. The best diamond drill intersect graded 2.44 g/t gold and 21.3 g/t silver over 1.2 m. The best RC drill result came from a hole located 400 m west of the known veins and assayed 5.32 g/t gold over 1.53 m.

Work Area 4

On the Val claims, mineralization is found in a fault-controlled zone hosting quartz veins and breccias (Turner, 2014). The zone ranges from 10 to 20 m wide and features sheeted veins and veinlets. Arsenopyrite, pyrite, galena and sphalerite occur as disseminations and stringers within quartz and carbonate gangue. Assays from trench exposures have mostly been disappointing.

Mineralization on the Queen claims is hosted by metamorphic rocks thought to be part of the Simpson Range Suite. Crystalline and chalcedonic quartz veins and veinlets containing disseminated pyrite and trace, fine-grained galena and arsenopyrite are reported in numerous locations. This type of mineralization is commonly accompanied by quartz-feldspar porphyry dykes. Quartz-chalcedony-stibnite breccia vein float has been discovered near old placer workings. Float samples taken near Montgomery Creek have graded up to 15.67 g/t gold. The source of this float is thought to be nearby but has not yet been discovered. Only limited bulldozer trenching has been done on targets on the Queen claims and none of the targets have been drilled. A rock sample of rusty fractured quartz float collected from a shallow (<1 m) trench returned 8.74 g/t gold and 57.6 g/t silver.

Work Area 6

Mineralization on the Sked/Desk claims occurs in three zones that range from four to thirty metres wide. These zones reportedly strike about 120° and dip between 60 and 65° to the southwest. The eastern extension of the mineralization may be truncated, or offset, by a small cross-fault, or could extend as a blind zone beneath Mount Nansen volcanic rocks. Quartz breccias and intense deformation have been reported in diamond drill holes. The best drill intersects graded 10.2 g/t gold over 1.5 m and 6.64 g/t gold over 5.9 m. The Sked claims also host limestone formations that may have economic implication for tailings treatment should mine development occur at the KVS deposit.

The J. Bill, Rat, and Bull claims host two types of vein mineralization that cut volcanic rocks near a silicified porphyry stock. One type consists of pyrite, arsenopyrite, galena and sphalerite in quartz, while the other type is finely disseminated molybdenite and chalcopyrite with minor pyrite and pyrrhotite. Drilling on the J. Bill claims in 2020 revealed an entirely new, previously undiscovered vein field that hosts veins that are very similar to those found at the KVS. Historic veins found elsewhere on the J. Bill, Rat and Bull claims have not been drilled, and limited bulldozer trenching was ineffective (YGS Minfile 115I 096).

Mineralization Paragenesis in the KVS

Interpretation of vein paragenesis is based on observations made from drill intersections from the area of the KVS (Lee et al., 2021). The general sequence of mineralizing events for the veins is postulated as follows:

Phase I: Early quartz±pyrite veining. This phase is associated with potassic (K-feldspar, biotite) and phyllic (quartz-pyrite-sericite) alteration of the host granodiorite.

Phase II a: High temperature milky quartz veining with semi-massive to massive pyrite, arsenopyrite and sphalerite ± electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase II b: Smoky and euhedral quartz veining hosting semi-massive to massive pyrite, arsenopyrite and sphalerite ± electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase II c: Lower temperature quartz veining hosting banded to semi-massive sphalerite, galena, tetrahedrite, silver-bearing sulphides and sulphosalts (acanthite, pyrargyrite, freibergite, busmuthinite) and chalcopyrite ± trace electrum. Veins associated with phyllic and muscovite-illite-pyrite±chlorite alteration, which overprints alteration of Phase I.

Phase III: Fe-, Mn- and Mg-rich carbonate (ankerite, rhodochrosite, siderite) and barite phase accompanied by galena mineralization. This phase is associated with carbonate (dolomite-siderite-calcite) alteration, which can overprint Phase I and Phase II alteration.

Phase IV: Single to multi-stage brecciation of veining by post-mineralizing hydrothermal fluids. Carbonate alteration can be present from this phase.

Mineral assemblages and precious metal abundance associated with the four phases varies based on the spatial relationships of each zone to the primary heat source and the localized structural controls involved in vein emplacement. The following paragraphs describe the paragenetic features observed in the Western and Central BRX and Klaza zones, which comprise the majority of the current mineral resource.

The Western BRX Zone hosts mineralization styles that appear to be relatively consistent over the entire 500 m strike length and 520 m of down-dip vertical extent. Mineralizing phases include grey to white quartz phase +/- pyrite (Phase I and Phase II a) followed by smoky quartz veining that hosts pyrite and arsenopyrite, with local sulphosalts and chalcopyrite (Phase II b, c). These phases are cut and locally brecciated by Phase III ankerite, rhodochrosite and associated galena. The final phase, Phase IV, commonly brecciates the sulphide veins, which produces breccia veinlets and micro-fractures. Paragenetic phases observed in drill core from the Western BRX Zone are shown in Plate 1.

KL-14-156, 114.20 m



Plate 1: Western BRX Zone. Milky quartz with disseminated pyrite (Phase II a) overprinted by smoky quartz hosting pyrite, arsenopyrite, sphalerite and minor galena (Phase II b and Phase II c). Ankerite with minor galena mineralization overprints previous phases (Phase III). All phases are crosscut by end phase brecciating fluids (Phase IV) and subsequent faulting.

Veins within the Central BRX Zone are mainly dominated by quartz and pyrite, with locally abundant sphalerite and galena. These veins host the same mineralizing phases observed in the Western BRX Zone, except that ankerite is the dominant carbonate facies mineral instead of rhodochrosite. Arsenopyrite and sulphosalts are also less abundant. Gold:silver ratios in this zone are generally lower than in the Western BRX Zone. A typical vein intersect from the Central BRX Zone is shown in Plate 2.

KL-14-197, 79.97 m

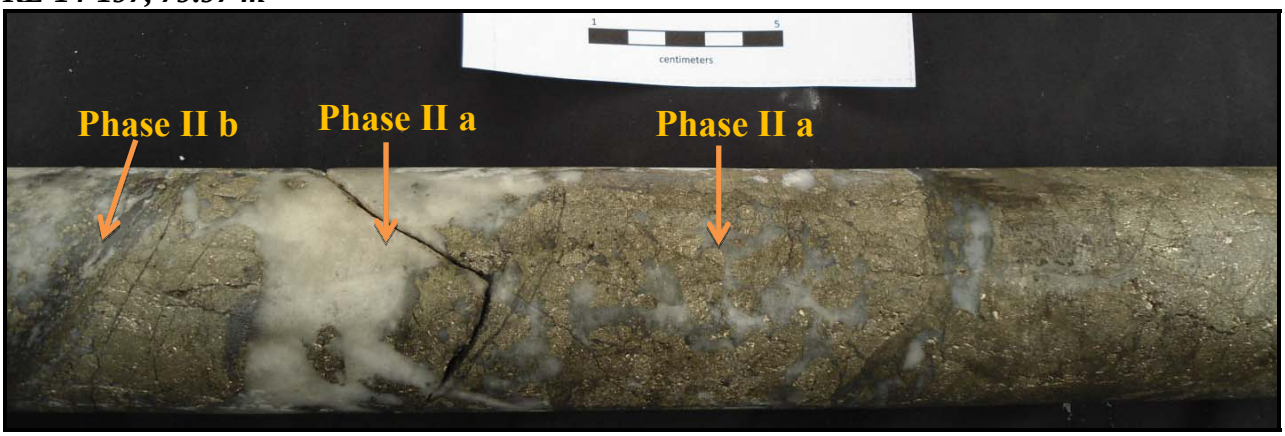


Plate 2: Central BRX Zone. Milky quartz hosting massive pyrite (Phase II a), with minor bands of smokey quartz hosting disseminated pyrite (Phase II b).

Veins in the Western Klaza Zone generally host the highest grade silver in the KVS. Initial alteration of the host granodiorite is a result of early grey to white quartz veining (Phase I). This is followed by up to two phases: smoky quartz veining hosting pyrite and arsenopyrite, and smoky quartz hosting acicular sulphosalt minerals (Phase II b and Phase II c). These two events are typically observed together in the Western Klaza Zone, but can occur individually. Ankerite and associated galena (Phase III) infill syn-mineralizing breccias and fractures cutting earlier phases. Representative vein intersects from the Western Klaza Zone are shown in Plates 3 and 4.

KL-14-182, 184.20 m

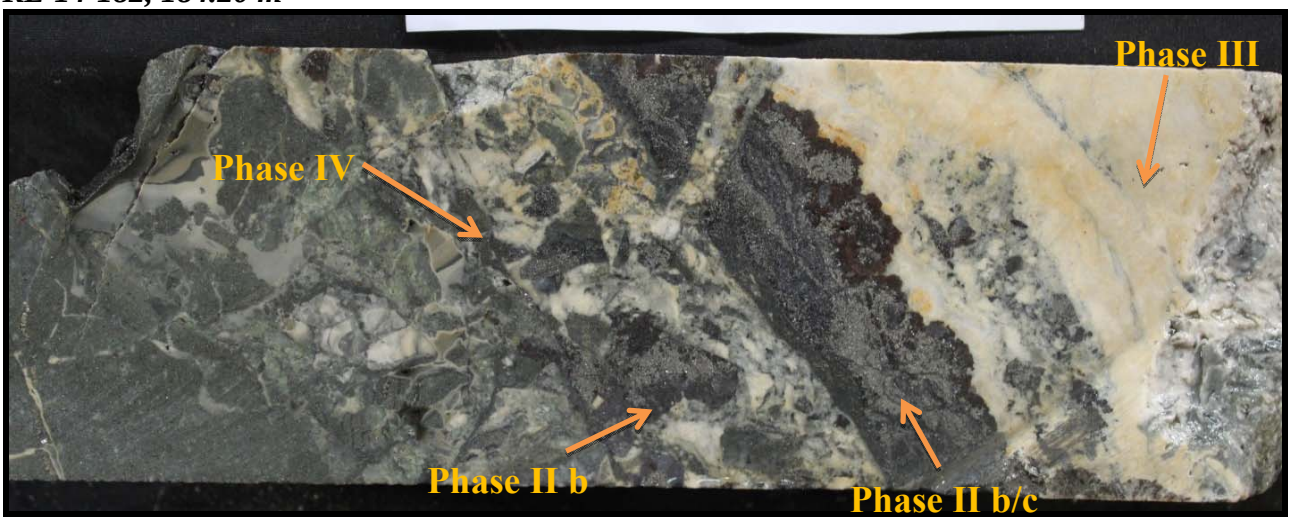


Plate 3: Western Klaza Zone. Banded, fine grained pyrite-arsenopyrite-sphalerite veining (Phase II b and c) crosscut by white to tan carbonate/ankerite (Phase III). End-phase hydrothermal brecciation occurs on left side, with fragments of Phase II b arsenopyrite-sphalerite±sulphosalts and Phase III ankerite in fragmental breccia matrix. Grey to brown laminated and banded chalcedony present as breccia infill.

KL-14-178, 96.50 m



Plate 4: Western Klaza Zone. Milky quartz (Phase II a) rimmed by ankerite-galena (Phase III) [left]. Milky quartz veining hosting pyrite (Phase II a) overprinted by smoky quartz hosting pyrite-arsenopyrite-sphalerite±sulphosalts (Phase II b, c) [right].

The Central Klaza Zone is a sheeted vein complex hosted in a feldspar porphyry dyke swarm. The strongest veins are often found along the selvedges of, but are not limited to, dyke contacts. Mineralized veins locally cross-cut these dykes, indicating multiple vein and dyke fluid phases. Typical vein composition in Central Klaza Zone consists of milky quartz veining (Phase II a), smoky quartz-pyrite-arsenopyrite-galena-sphalerite-sulphosalt veining (Phase II b and c) and subsequent brecciation by ankerite with associated galena (Phase III) and end-stage hydrothermal fluids (Phase IV), as shown on Plate 5.

KL-11-28, 254.05 m



Plate 5: Central Klaza Zone. Banded sphalerite-galena veins (Phase II c) with overprinting banded ankerite (Phase III), which is all crosscut by end-stage brecciation and faulting (Phase IV). Remnant pyrite-arsenopyrite (Phase II b) found in breccia matrix of Phase IV.

Alteration Facies in the KVS

Alteration facies described in this section are developed around veins in the KVS. Where only a few veins are present, or they are widely separated, the alteration zones can be discrete and are surrounded by unaltered granodiorite wallrock. Where a mineralized zone consists of multiple, closely spaced veins, the areas of alteration can coalesce. Extensive areas of pervasive alteration characterize the Central and Eastern Klaza zones and the Eastern Zones. This widespread, pervasive alteration appears to increase towards the southeast as the zones get increasingly closer to the porphyry centres of the MNPC.

Four significant alteration facies are observed in drill core and trench exposures. These phases are propylitic, argillic, phyllic and potassic alteration. The alteration facies and intensities vary, based principally on the spatial relationships of each zone with respect to the primary heat source. Further controls on alteration include proximity to feldspar porphyry dykes and the presence of multiple phases of mineralization. Generally, propylitic alteration represents the most distal alteration facies, followed by weak and advanced argillic alteration, phyllic alteration and finally, the most proximal, potassic alteration. The following paragraphs describe the alteration facies observed in drill core from the KVS.

Propylitic facies alteration in the host granodiorite is mainly represented by the presence of calcite, chlorite and sericite. Chloritization of feldspar grains imparts a dark greenish grey colour to the granodiorite. Calcite usually develops as coatings along microfractures. Chlorite content

is modest at about 3 to 5% of the rock. Epidote, another propylitic index mineral, is rarely observed. Representative alteration intersections from drill core are shown in Plates 6 and 7

KL-14-228, 144.00 m

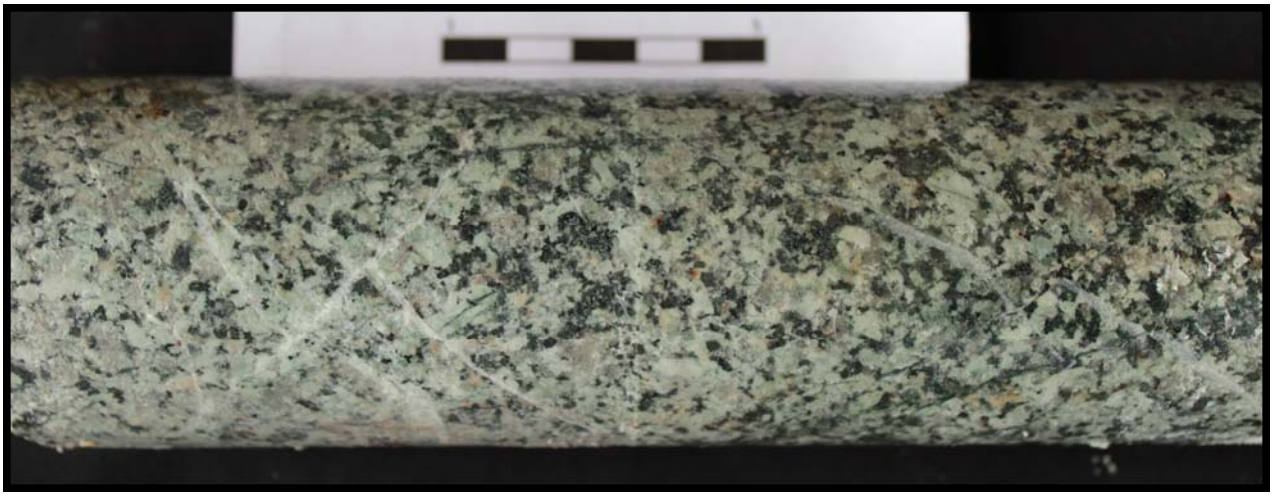


Plate 6: Moderate propylitic alteration.

KL-14-231, 190.6 m



Plate 7: Strong propylitic alteration with weak potassic overprinting.

Argillic facies alteration occurs more proximal to mineralized zones than the propylitic facies and can be present within 50 cm of mineralized veins. This alteration is divided into two sub-facies: argillic (montmorillonite) and advanced argillic (kaolinite). Each sub-facies is defined by the type of clay replacing plagioclase feldspar.

Argillic alteration is characterized by a pale green colour that develops when clay altered plagioclase oxidizes on exposure to air. Montmorillonite altered grains in the groundmass swell when the clays absorb water, making them highly friable, as seen in Plate 8. This sub-facies is generally less than 50 m wide and occurs outward of the advanced argillic sub-facies.

KL-14-138, 138.86 – 142 m

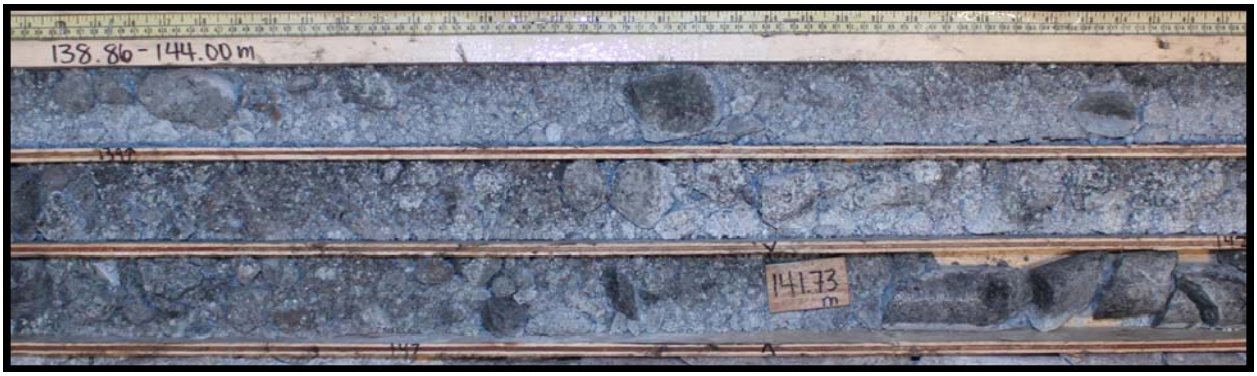


Plate 8: Highly friable montmorillonite alteration.

Advanced argillic alteration has a strong bleached appearance and is often cut by narrow sericite veinlets with minor overprinting alteration envelopes. Typical kaolinite alteration grades to phyllic alteration, as sericite dominates over kaolinite. The advanced argillic sub-facies has been classified into weak, moderate and strong, dependant on the presence or absence of biotite, K-feldspar, calcite, sericite, pyrite and hematite. The contacts of these three classifications are generally gradational. The classification of the three phases of advanced argillic alteration is described below.

Weak advanced argillic alteration is characterized by plagioclase feldspar and hornblende altering to chalky and/or dull white clay (Plate 9). Biotite is present as fresh to weakly altered grains. K-feldspar may also be present. Calcite is rarely observed. Magnetite is generally oxidized to hematite, and disseminated pyrite is usually absent.

KL-14-220, 182.30 m



Plate 9: Weak advanced argillic alteration.

Moderate advanced argillic alteration is characterized by the destruction of biotite, calcite and K-feldspar as the intensity of alteration increases (Plate 10). Pale green sericite becomes common; however, it is not pervasive. Hematite is locally present and chlorite, a relic of biotite alteration, may be present. Pyrite is generally absent or very weak.

KL-14-234, 63.10 m



Plate 10: Moderate advanced argillic alteration.

Strong advanced argillic alteration occurs where kaolinite is largely replaced by white to pale green sericite (Plate 11). Pyrite veinlets up to 1 mm are common and wider veinlets sometimes have narrow white, intense sericite envelopes. The presence of pyrite is a result of the sulphidization of hematite.

KL-14-235, 89.10 m



Plate 11: Strong advanced argillic alteration.

Phyllic facies alteration is characterized by sericite, quartz and pyrite and is seen immediately adjacent to mineralized zones inside the propylitic and argillic alteration halos (Plate 12). Typical phyllic alteration consists of quartz±sulphide veinlets enveloped by pervasive sericite and pyrite. In areas of increased vein density, the original rock texture is typically destroyed and replaced to a dark gray, very fine-grained mixture of sericite, pyrite and quartz. This quartz accumulates as blebs or migrates to form additional veinlets and veins. The strongest phyllic alteration observed to date is within the Klaza Zone. Breccias that are typically found in the Klaza Zone often contain strongly phyllic altered clasts.

KL-14-229, 310.70 m



Plate 12: Strong phyllic alteration.

Potassic facies alteration features fine-grained interstitial white to pink feldspars and euhedral books of biotite. Besides the diagnostic alteration minerals: biotite and K-feldspar, this facies may contain secondary magnetite, anhydrite or tourmaline. Representative alteration intersects from drill core are shown on Plates 13 and 14.

KL-14-220, 182.30 m



Plate 13: Moderate potassic alteration with secondary biotite.

KL-14-231, 191.55 m



Plate 14: Moderate potassic alteration in sharp contact with weak phyllic alteration.

Carbonate Gangue Facies in the KVS

Gold-silver mineralization within the KVS occurs in veins containing quartz, carbonate minerals (notably rhodochrosite, ankerite and siderite) and iron and base metal sulphide minerals. The gold-rich Western BRX Zone has the highest abundance of manganiferous carbonate (rhodochrosite) discovered to date on the property. Dominantly iron-rich carbonates (ankerite and siderite) with lesser rhodochrosite are found in the remainder of the BRX Zone and in the Klaza Zone.

Deposit Style Classification

Recent research shows the veins of the KVS overprint earlier phyllic alteration related to the emplacement of the Kelly and Cyprus porphyry systems, part of the MNPC (Lee et al., 2021). Based on the inferred location of the Kelly porphyry, the property encompasses the entire porphyry to epithermal transition system.

Textures and mineralogy observed in the KVS share a number of key characteristics with Intermediate Sulphidation (IS) epithermal deposits. IS epithermal deposits can occur in magmatic arc environments (and locally in extensional settings) and have mainly been discovered around the Pacific Rim (Circum Pacific Belt). This deposit type includes multi-million ounce gold deposits such as the Comstock Lode (Walker Lane, Nevada), Fruita Del Norte (Suarez pull-apart basin, Ecuador) and the Marmato (Middle Cauca Belt, Columbia Marmato) deposits.

IS epithermal deposits are formed from ascending hydrothermal fluids that undergo rapid boiling, liquid-vapour phase separation and rapid cooling, resulting in the precipitation of bisulphide-complexed metals (Wang, 2019). These deposits typically exhibit high Ag:Au ratios, have a significant base metal component, and are spatially related to porphyry copper-gold systems. Mineralization styles are highly zoned, depending on the crustal level of the system.

Characteristic zonation of carbonate compositions develop when upwelling mineralizing fluids are progressively cooled as they mix with descending groundwater. These carbonate compositions vary from proximal (hot) calcium-rich (calcite) and manganese-rich (rhodochrosite) to distal (cool) iron-rich (ankerite) facies. Gold mineralization can be preferentially distributed within veins containing Mn/Mg carbonate facies. Key diagnostic features of IS epithermal deposits are compared to features observed in the Klaza mineralized zones in Table 10:

Table 10: IS Epithermal Comparison with Klaza Vein System

Diagnostic Features of IS epithermal Deposits	Diagnostic Features of KVS Mineralization
Mineralization occurs as veins and breccias	Mineralization occurs as veins and breccias
Extent of veining up to several km long and up to 800 m depth	Large lateral (>2000 m) and vertical (520 m and open to depth) extent of mineralization
Vein textures: crustiform banding, symmetric banding, vugs, cockade and comb texture	Vein textures: crustiform banding, symmetric banding, vugs, cockade and comb texture
Multi-stage mineralizing phases	Four mineralizing phases identified to date on the KVS (Phase I to IV, see above)
Typical mineralogy: pyrite, sphalerite, galena, electrum, Ag sulphides (acanthite, argentite), Ag-sulphosalts, Ag tellurides, rare arsenopyrite	Typical mineralogy: pyrite, arsenopyrite, sphalerite, galena, acanthite, Ag-sulphosalts, tetrahedrite, electrum
Gangue minerals: quartz, local barite, Mn-carbonates (rhodochrosite), Fe-carbonates (ankerite)	Gangue minerals: quartz, local barite, Mn-carbonates (rhodochrosite), Fe-carbonates (ankerite)
Clay alteration assemblage transitions outwards to propylitic alteration	Clay alteration assemblage transitions outwards to propylitic alteration
Coeval or pre-mineralizing dykes present	Coeval or pre-mineralizing quartz-feldspar porphyry dykes present

Arsenopyrite, which is extensively present in veins from the KVS, is a mineral typically found in Low Sulphidation (LS) epithermal deposits rather than IS deposits. Many IS deposits, however, display transitional IS to LS characteristics due to the rapidly changing sulphidation state of hydrothermal fluids and vapours as they react with wallrock buffer material. This change in sulphidation state can introduce minerals, such as arsenopyrite, which are typically seen in LS systems into what are typically classified as IS systems, and vice versa.

SOIL GEOCHEMISTRY

From 1966 to 2020, both reconnaissance and grid soil geochemical samples were collected at varying densities within Work Areas 1 to 6. A total of 124 soil samples were collected in 2020. The following descriptions focus on Work Area 2, which encompasses the most important mineralization found to date on the property. Sample Handling and Analytical Procedures are described in Appendix III.

Work Area 2

Early soil sampling in Work Area 2 identified linear gold±silver±lead anomalies, which correspond to some of the known mineralized zones in the KVS, and a large (2,000 by 3,000 m) area of moderately to strongly anomalous copper-in-soil response, which partially defines the Kelly Zone porphyry.

From 2010 to 2013, Rockhaven expanded grid sample coverage to the west and north of the earlier grids, and collected samples on a few contour-controlled lines in the northwestern part of Work Area 2. No soil sampling was done in 2014. In 2015, 609 samples were collected on grid lines east and northeast of the KVS. These samples were analyzed in 2016. In 2016, 68 grid soil samples were taken to the west and east of the KVS. No soil sampling was completed in Work Area 2 from 2017 to 2020.

Effectiveness of soil sampling is often limited by thick layers of organic material, overburden, and in many areas, permafrost. Despite these limitations, soil sampling has been one of the most effective surface exploration techniques for identifying trenching or drilling targets.

Results for gold, silver, arsenic, lead and copper from historical programs and soil programs conducted by Rockhaven in the area of the KVS are illustrated in Figures 13 to 17, respectively. Table 11 lists the anomalous thresholds and peak values from soil surveys for these elements.

Table 11: Geochemical Data for Soil Samples

	Anomalous Thresholds			Peak Values
Element	**Weak**	**Moderate**	**Strong**	
Gold (ppb)	≥ 5 < 10	≥ 10 < 20	≥ 20	920
Silver (ppm)	≥ 0.5 < 1	≥ 1 < 2	≥ 2	61.3
Lead (ppm)	≥ 10 < 20	≥ 20 < 50	≥ 50	722
Copper (ppm)	≥ 20 < 50	≥ 50 < 100	≥ 100	1,870
Arsenic (ppm)	≥ 10 < 20	≥ 20 < 50	≥ 50	1,700

In general, gold, silver and arsenic soil geochemical results from samples taken in the area of the KVS show strong correlation with known veins in the area of the KVS. These elements also highlight strong linear trends in unexplored parts of Work Area 2.

Elevated gold, silver, lead and arsenic values form strong, typically northwesterly trending linears in the area of the KVS, which strongly correlate with the twelve known veins in the area. These geochemical anomalies also highlight strongly elevated, multi-element linear trends in unexplored parts of Work Area 2.

Soil geochemical results also highlight a distinct copper zonation in the KVS, from southeast to northwest, which is associated with proximity to the Kelly porphyry system. Response across the remainder of the gridded area is more subdued. The more southerly BRX, AEX, Dickson and Chevron zones have weakly elevated copper-in-soil signatures, while the other zones, further to the north, show only background copper response.

Along strike to the northwest of the known mineralized zones, elevated soil values occur as isolated samples or in small clusters. The lack of continuity in soil geochemical results to the northwest is likely due to increasing overburden and permafrost with decreasing elevation, resulting in poor soil sample quality.

Work Areas 1, 3, 4, 5 and 6

Reconnaissance-scale soil geochemical programs and localized grid soil sampling have been conducted intermittently in Work Areas 1, 3, 4, 5 and 6. To date, the most significant values have come from the BBB, Dade, Sked, Val and Rusk claim groups.

At Work Area 3, a total of 68 soil samples were collected in 2016 on two grids near the Dade and Grizzly occurrences. Samples taken from undrilled areas of the Dade claims returned values up to 166 ppb gold. Samples collected from soil near bedrock on trench floors yielded values up to 7,260 ppb gold. In 2020, 73 soil samples were collected east of the Dade occurrence along contour lines to assess an area of anomalous, historic soil samples. These samples outlined a zone highly anomalous in gold and arsenic with values up to 1,140 ppb and 820 ppm respectively. Figure 9 shows 2020 soil sample locations while Figures 10-12 show gold, arsenic and silver values for the soils collected.

At Work Area 4, a total of 20 soil samples were collected in 2015 to the east of the Bear occurrence. These samples were analyzed in 2016. In 2020, 51 soil samples were collected along contour lines east of the Dade Occurrence to assess an area of anomalous, historic soil sampling. Generally low values were returned with the most anomalous samples returning 40 ppb gold and 1.71 ppm silver.

At Work Area 6, a total of 186 contour soil samples were collected in 2016 to the north of the Rusk occurrence. These samples outlined a 1,500 by 1,800 m gold, arsenic and silver anomaly with values up to 147 ppb, 16 ppm and 1,900 ppm, respectively. In 2017 a total of 140 contour-style soil samples were taken. Figures 13 to 17 show gold, silver, arsenic, lead and copper values for the soils taken from the Rusk target.

Soil samples collected from the Sked/Desk claims returned anomalous gold, arsenic and silver values up to 1,100 ppb, 1,100 ppm and 4.4 ppm, respectively.

The Val claims host multiple anomalous zones containing elevated gold, silver, lead and zinc results, with peak values of 154 ppb, 13.9 ppm, 671 ppm, and 511 ppm, respectively.

Results from soil geochemical programs conducted by various operators are summarized in: Cathro and Culbert, 1969; Cathro, 1974 and 1976; Main, 1987; Mann and Slack, 1996; Chung, 2011; Burrell, 2014; Smith, 2010 and 2011; Galambos, 1988; Schmidt, 1996 and 1997; Carlyle, 1997; McClintock, 1986; Heberlein and Lyons, 1986; Stroshein, 2001, 2003, 2004, and 2008.

ROCK GEOCHEMISTRY AND HAND TRENCHING

Prospecting, rock sampling and hand trenching programs have been conducted by various operators throughout the MNGC since work originally began in the area. Prospecting on the property, however, is largely inhibited by lack of outcrop except for the uppermost portions of ridges and hilltops. Recent prospecting and hand trenching work on the property is summarized below. Sample Handling and Analytical Procedures are described in Appendix III. Certificates of Analysis are found in Appendix IV.

Rock sample locations from the 2020 program are shown in Figure 18 while sample descriptions are found in Appendix V.

Work Area 2

In 2016, six rock samples were collected to the east of the KVS, at the Victoria target, located approximately three kilometres to the east of the KVS. Samples from two separate areas returned up to 3.41 g/t gold, 537 g/t silver and 1.29% lead, and 4.09 g/t gold, 26.9 g/t silver, and 4.07% copper. Follow up hand trenching in the area was hindered by permafrost, but float samples from a trench, HTR-16-03, returned up to 10 g/t gold and 217 g/t silver.

In 2017, a total of 38 rock samples were collected to the east, west and south of the KVS. The best rock sample taken from the Victoria target returned 35.3 g/t gold and 1,145 g/t silver, with other samples returning up to 12.10 g/t gold, 2,360 g/t silver and 7.6% lead.

In 2019, a single rock sample was collected while constructing a drill pad targeting the Eastern Chevron Zone. This vein is likely the surface exposure of the Eastern Dickson Vein. The sample, a composite of mineralized vein and altered wallrock material, returned 4.07 g/t gold, 74.1 g/t silver, 1.7% lead and 3.38% zinc.

In 2020, a total of 7 rock samples were collected to the east and west of the KVS. The best rock sample was from the Victoria target and returned 1.70 g/t gold and 93.5 g/t silver.

Work Areas 3, 4 and 6

At Work Area 3, a rock sample taken from the Dade occurrence in 2017 returned 1.22 g/t gold and 6.4 g/t silver. In 2020, 7 rock samples were collected with the most anomalous one returning 0.16 g/t gold.

At Work Area 4, a single rock sample was collected in 2020 from an old dozer trench. No anomalous values were returned.

At Work Area 6, eight rock samples were collected in 2016 from the Sked occurrence. Eight samples were collected from historical trenches in order to evaluate a potential local limestone source for use during tailings treatment. Oxidized samples taken from these trenches returned

elevated values for arsenic (1,165 ppm), copper (244 ppm) and zinc (449 ppm). One additional rock sample was collected from the area in 2017. In 2020, 10 rock samples were collected to the south and east of the Rusk occurrence. Several samples were highly anomalous returning values up to 1.24 g/t gold and 499 g/t silver.

GEOPHYSICAL SURVEYS

Work Area 2

To date, four types of geophysical surveys have been completed within Work Area 2: (1) SJ Geophysics Ltd. (SJ Geophysics) of Delta, British Columbia conducted two ground-based VLF-EM and magnetic surveys on behalf of BYG Natural Resources in 1996 (Visser et al., 1996) and Rockhaven in 2014 and a Volterra 3D IP survey in 2016; (2) Aurora Geosciences Ltd. of Whitehorse, Yukon conducted a gradient array induced polarization survey on behalf of Bannockburn Resources in 2006 (Wengzynowski, 2006); (3) New-Sense Geophysics Ltd. (NSG) of Markham, Ontario conducted two high sensitivity helicopter-borne magnetic and gamma-ray spectrometric surveys for Rockhaven during the 2010 (Turner and Tarswell, 2011) and 2011 (Tarswell and Turner, 2012) field seasons; and (4) Ground Truth Exploration of Dawson City, Yukon conducted high resolution induced polarization surveys along two experimental lines in the Central Klaza and Central BRX zones for Rockhaven during the 2013 field season.

The **SJ Geophysics** VLF-EM and ground-based magnetic surveys were completed during two programs and covered a total of 330 line kilometres on a 4.5 by 8 km grid in the eastern and central parts of Work Area 2. The first survey was completed on behalf of BYG in 1996 and covered 250 line kilometres. In 2014, Rockhaven added another 80 line kilometres to the earlier survey. SJ Geophysics integrated and interpreted the data from both surveys and produced images relating to it. These surveys delineated numerous linear magnetic lows and VLF-EM conductors that coincide with known mineralized zones within the KVS. Northerly trending breaks in the VLF-EM conductors correspond to known or suspected cross-faults. Figure 19 shows the VLF-EM results overlain with the interpreted surface traces of the mineralized structural zones and their possible extensions along strike.

A Volterra-3D IP survey was completed by **SJ Geophysics** in 2016 to the east of the KVS. A total of 18.4 line kilometres were completed on a grid with seven survey lines spaced at 400 m. Survey stations along these lines were set up at 100 m intervals. The work was designed to better define the Kelly Zone, where porphyry-style mineralization had been inferred from a few widely-spaced drill holes, strong soil geochemistry and a broad magnetic low. Prior to 2016, only two trenches and one drill hole had tested the northern edge of this anomaly with the best result coming from hole KL-12-134, which averaged 0.14 g/t gold, 2.7 g/t silver, 0.15% copper, and 0.010% molybdenum over 95.15 m. This survey identified a 2,400 metre by 2,200 metre sub-circular chargeability anomaly containing greater than 40 millisecond (ms) values, as shown in Figure 20. Within this anomaly there is a 1,700 metre by 800 metre core with greater than 50 ms values. North-trending resistivity lows (less than 100 ohm-m) coincide with the core of the chargeability anomaly, as shown in Figure 21.

The gradient array and pole-dipole IP survey conducted by **Aurora Geosciences** covered a

1,800 by 1,450 m area in the eastern and central parts of the KVS. Readings were collected at 25 m intervals along lines spaced 100 m apart. This survey identified two main anomalies, both of which feature elevated chargeability with coincident low resistivity.

The most prominent IP anomaly is located in the southeastern corner of area tested by Aurora and was the focus of the more expansive SJ Geophysics survey completed in 2016. It is only partially defined and currently comprises a 1,000 m diameter, semicircular area characterized by moderate chargeability and low resistivity. This anomaly coincides with an area of elevated gold-in-soil geochemistry (25 to 100 ppb) and strong copper geochemistry (>200 ppm) as well as weak porphyry-style mineralization and alteration that are part of the Kelly Zone.

The second IP anomaly includes three northwesterly trending linear, chargeability features of weak to moderate intensity. These chargeability features are 710 to 1,200 m long and are offset 30 to 190 m to the south from parallel resistivity lows. These linear features correspond with parts of the BRX, AEX and BYG zones. The Aurora survey did not cover the Klaza Zone.

The **NSG** surveys resulted in 326 line kilometres being flown on a grid that covered most of Work Area 2. Condor Consulting, Inc. of Lakewood, Colorado was retained to ensure quality control and produced a 3D model of the total field magnetics as well as various vertical derivatives. The first vertical derivative of the magnetic results overlain with the interpreted surface traces of the eleven structural zones is shown on Figure 22.

Magnetic surveys identified several prominent, linear magnetic lows. Subsequent trenching and drilling have shown that many of the northwesterly trending lows coincide with mineralized structural zones in the KVS, while northeasterly trending breaks in the magnetic data correspond to cross-faults. These relationships are consistent with the low magnetic susceptibility results returned from core samples within the altered structural zones compared to higher values from surrounding unaltered wallrocks. Several of the magnetic lows extend outside the main areas of exploration and have not yet been tested by drilling or trenching.

Elevated potassic radioactivity is evident in the general area of the KVS, but does not specifically coincide with individual mineralized zones. Numerous porphyry dykes and frost boils containing porphyry fragments lie within this area and are the probable source of this radioactivity. The Klaza River valley, to the north of the KVS, has generally subdued radiometric response, which is likely due to thick vegetation and water saturation in the flats adjacent to the river. Elevated radioactivity that directly correlates with the river bed may be caused by exposed gravels, which include abundant potassium feldspar bearing, intrusive material.

The experimental IP survey conducted by **Ground Truth Exploration** collected dipole-dipole extended, inverse Schlumberger and strong gradient array data on section lines 10+050 mE and 10+600 mE across the Klaza and BRX zones. Each of these lines was 415 m long (a single spread length for the arrays). Transceivers were placed five metres apart along the lines, resulting in a very high signal to noise ratio and thus providing high quality resistivity data. The mineralized vein and breccia zones tested by the two lines show up as resistivity lows that coincide with chargeability highs.

Work Areas 1, 3, 4, 5 and 6

Geophysical surveys of various types have been conducted on Work Areas 1, 3, 4, 5, and 6. The surveys and their results are summarized in: Smith, 2011; Smith, 2012; Galambos, 1988; McClintock, 1986; Heberlein and Lyons, 1986; and, Dujakovic and Visser, 1996. The most recent data are magnetic and induced polarization surveys of the Rusk and Val areas, completed by SJ Geophysics in August 2017.

Magnetic data from the Dade claims has a strong northeasterly fabric, rather than the northwesterly orientation that characterizes the KVS. Although northwest-trending features are less common, a linear with this orientation appears to mark a fault that truncates or offsets veining identified in trenches.

The first vertical derivative evaluation of the magnetic data from the BBB claims delineates a number of northwest-trending magnetic lows akin to those that coincide with mineralized structures in the KVS.

In 2017, SJ Geophysics conducted magnetic and induced polarization surveys on the Rusk and Val claim groups. The Rusk grid surveys (seen in Figures 19-22 combined with historic Klaza Vein System geophysics) exhibit few poorly defined linears, best seen in the magnetic surveys. These linears show a weak apparent correlation with high arsenic-, gold-, and silver-in-soil values. The Val grid surveys (Figures 23 and 24) show apparent northwest-southeast trending linears similar to those seen in the main Klaza Vein System. The final report by SJ Geophysics from work completed in 2017 can be found in the 2017 Klaza Assessment Report.

EXCAVATOR TRENCHING

Rockhaven has completed 24,231 m of excavator trenching in 101 trenches between 2010 and 2020. Chip samples are typically taken along the west rib of each trench or where bedrock was the most stable. Where bedrock was not exposed, soil samples were typically collected along the floor of trenches and rock samples were taken if any mineralized float was observed. Trenching, Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis can be found in Appendix IV.

Table 12 lists the total number and combined lengths of trenches completed in the Klaza claim group by Rockhaven each year since 2010.

Table 12: 2010 to 2020 Excavator Trenching Summary

Year	Number of Trenches	Total Length (m)
2010	21	8,000
2011	12	4,050
2012	11	4,000
2013	38	5,000
2014	5	880

2015	2	436
2016	8	1,270
2017	4	595
2018	0	0
2019	0	0
2020	0	0
TOTAL	**101**	**24,231**

Work Area 2

Historically, excavator trenching in geochemically anomalous areas has been the most effective tool for identifying near surface but non-outcropping, mineralized zones. Overburden within the main areas of exploration generally consists of 5 to 20 cm of vegetation and soil organics overlying a discontinuous layer of white volcanic ash and 50 to 125 cm of loess and/or residual soil, capping decomposed bedrock.

Typical trench exposures within the mineralized vein zones exhibit strong limonite and clay alteration that is often water saturated and strongly weathered compared to surrounding wallrocks. These zones are intensely fractured and have high porosity as a result of near surface oxidation. Residual sulphide minerals are rarely present in trenches and, where seen, they are usually encapsulated in silica. The locations and orientations of lithological contacts in trenches correspond very well with those intersected in nearby drill holes, indicating little solifluction has occurred. Outside of the mineralized zones, trench exposures are dominated by blocky, weakly oxidized granodiorite.

The majority of trench locations were selected on the basis of previous trench, soil and drilling results. Where possible, trenches were excavated in areas that had previously been stripped of soil and vegetation. Trenches are typically aligned at about 030-037°, perpendicular to the trends of main veins and soil geochemical and geophysical anomalies.

Individual zones and their key historical trench results are discussed, from north to south, in the following paragraphs based on descriptions from Tarswell and Turner, 2014. All widths reported are sampled widths, which are considered to represent 80 to 90% of true widths.

The **Victoria Zone** is the northern-most zone of the KVS. A single excavator trench (275.56 m) was dug in 2017 following the discovery of high-grade gold- and silver-bearing rock samples. Chip sampling from these trenches returned 4.95 g/t gold and 135 g/t silver over 1.5 m and 5.43 g/t gold and 149 g/t silver over 1 m (TR-17-093).

The **Pearl Zone** was partially exposed in an excavator trench in 2011. The Central and Western Pearl Zone were delineated by drilling in 2019, but have not been exposed by trenching.

The **Klaza Zone** has been traced by closely spaced trenches for a strike length of 2,400 m, but is projected to another trenching area 1,300 m to the east, for a potential total strike length of 3,700 m. The zone is made up of numerous individual veins that range between 0.2 to 4.5 m wide. The Klaza Zone is divided into three sub-zones, which are described below.

Narrow, high-grade silver-gold enriched veins in the ***Western Klaza Zone*** are believed to represent distal mineralization. A strong vein and a nearby weaker vein, both with good lateral continuity, have been traced along this segment of the zone. These veins are not emplaced alongside a feldspar porphyry dyke, nor are they flanked by the type of sheeted veining seen elsewhere in the Klaza Zone. The Western Klaza Zone has higher proportions of arsenopyrite and sulphosalts, and higher silver:gold ratios than the Central and Eastern portions of the zone. The best trench result from the Western Klaza Zone was 16.76 g/t gold and 1,052 g/t silver over 3.03 m (TR-13-70).

Mineralization in the ***Central Klaza Zone*** is hosted within a laterally extensive complex of steeply dipping veins, breccias and sheeted veinlets that are associated with a swarm of feldspar porphyry dykes. The strongest veins are typically found along dyke margins. The best result from this part of the Klaza Zone was 5.61 g/t gold and 300 g/t silver over 18.79 m (TR-13-51).

Mineralization in the ***Eastern Klaza Zone*** comprises broad zones of quartz-pyrite stringers and veinlets hosting disseminated galena, sphalerite, chalcopyrite and rare molybdenum. Barren feldspar porphyry dykes up to 70 cm wide crosscut zones of mineralization. The strongest vein zones are typically associated with broad areas of phyllic and weak potassic alteration, which sometimes host disseminated pyrite and trace molybdenum. The best results from this part of the Klaza Zone include 0.69 g/t gold and 3.43 g/t silver over 53.95 m (TR-13-42), and 0.18 g/t gold and 2.69 g/t silver across 302.7 m (TR-12-08).

While individual mineralized exposures within the Klaza Zone are generally comparable to those at other zones in the KVS, the Central and Eastern Klaza Zones are distinguishable by the presence of multiple subparallel veins, which are relatively closely spaced within a structural corridor that is up to 100 m wide.

In 2013, two trenches tested the projected eastern extension of the Klaza Zone, 1,300 m east of the main trenching area. The best of these trenches (TR-13-41S) yielded multiple mineralized intervals, including 1.91 m grading 2.38 g/t gold and 18.25 g/t silver. The area between this trench and the known Klaza Zone has not yet been trenched and only a handful of holes have been drilled. The continuity between these areas has not yet been established.

The **BYG Zone** is a vein zone that splays to the south, off of the east-central part of the Klaza Zone. It has been traced by excavator trenches for 650 m and hosts veins developed along the selvages of two dyke swarms. An interval in TR-11-26 returned 2.13 g/t gold and 7.94 g/t silver across 14.68 m.

The **Herc Zone** also appears to splay off the Klaza Zone, approximately 300 m east of the BYG Zone. The Herc Zone was discovered in 2010 by following up historical soil geochemical results and has been traced over a 460 m strike length. The best exposure yielded 3.06 g/t gold and 48.66 g/t silver over 7.60 m (TR-10-12). Trenching along the projected strike to the west failed to identify significant mineralization, although strong alteration was exposed along the inferred trend.

The **Pika Zone** lies 650 m south of the Klaza Zone. It hosts up to two discrete veins that have been tested by four trenches along a 740 m strike length. This zone has a relatively weak soil geochemical signature compared to the other known zones. The best interval obtained from trenching yielded 2.94 g/t gold and 190.06 g/t silver over 3.20 m (TR-10-04).

The **BRX Zone** was the original historical discovery on KVS. The zone has been traced for a length of 2,400 m by 37 trenches. The total strike length comprises at least three fault offset segments. Mineralization within the BRX Zone is associated with a laterally extensive feldspar porphyry dykes. Veins occur on the margins of dyke and, where the dyke splays, the number of veins increases, which sometimes results in wider mineralized intervals. All of the vein exposures in this zone host abundant sulphide and quartz veinlets. The best results are from a 500 m long section, the ***Western BRX Zone***, which is situated between two northeast-trending cross-faults. Highlights from this section include 87.0 g/t gold and 768 g/t silver over 1.15 m (TR-13-47) and 71.4 g/t gold and 1,310 g/t silver over 2.25 m (TR-13-58). Highlight trench results from the ***Central BRX Zone*** include 11.65 g/t gold and 10,400 g/t silver over 1 m (TR-10-20) and 8.42 g/t gold, 548 g/t silver over 1.31 m (TR-13-49). Highlight trench results from the ***Eastern BRX Zone*** include 3.2 g/t gold and 190 g/t silver over 2.93m (TR-10-04)

The **AEX Zone**, discovered in 2012, lies 850 m south of the Klaza Zone and has been traced for 1,650 m. The best trench exposure was returned 10.90 g/t gold and 56.41 g/t silver over 1.25 m (TR-10-03).

The **Dickson Zone** was also discovered in 2012 and lies 1,050 m south of the BRX Zone. It has been exposed in two areas, located approximately 1,500 m apart within a 3,000 m long geophysical and multi-element soil geochemical anomaly. The best exposure from this zone returned 10.85 g/t gold and 93.60 g/t silver over 1.60 m (TR-12-02).

The **Chevron Zone** was another 2012 discovery, which is located approximately 850 m southwest of the BRX Zone. It hosts multiple vein structures that have only been tested by two trenches. The best trench results were 3.79 g/t gold and 190.48 g/t silver over 9.20 m and 6.25 g/t gold and 319 g/t silver over 4.80 m, both from TR-12-36.

The **Rex Zone** was discovered by a 2016 drill hole (KL-16-314). It has not been tested by trenching.

The **Stroshein Zone** lies approximately 100 m south of the Eastern Klaza Zone and 180 m north of the Pika Zone. Four trenches completed between 2010 and 2012 cross the zone, with the best result returning 8.41 g/t gold over 1.35 m (TR-12-39).

Table 13 lists the most significant mineralized intervals from trenching programs conducted since 2010 in the KVS.

Table 13: Significant Trench Results – Klaza Vein System

Trench	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone
TR-10-01	229.32	231.32	2.00	6.36	118.55	PIKA

TR-10-01	311.02	312.63	1.61	5.67	140.09	Eastern BRX
TR-10-01	323.89	328.89	5.00	2.91	0.60	Eastern BRX
TR-10-01	469.10	473.62	4.52	2.48	46.80	AEX
TR-10-02	92.45	97.45	5.00	1.39	28.30	Eastern BRX
TR-10-02	227.07	232.37	5.30	1.85	29.63	AEX
TR-10-02	377.20	379.09	1.89	2.78	81.88	Eastern BRX
TR-10-03	236.96	238.21	1.25	10.90	56.41	AEX
TR-10-03	356.26	356.96	0.70	5.39	88.40	Eastern BRX
TR-10-03	96.30	99.00	2.70	2.61	14.80	Eastern Klaza
TR-10-03	349.50	352.50	3.00	6.80	55.67	Eastern Klaza
TR-10-03	464.61	467.07	2.46	7.43	146.38	BYG
TR-10-03	485.91	495.91	10.00	4.22	7.90	HERC
TR-10-04	105.50	108.70	3.20	2.94	190.06	PIKA
TR-10-04	257.47	258.50	1.03	19.80	135.00	Central BRX
TR-10-04	267.17	268.45	1.28	2.26	46.00	Central BRX
TR-10-04	300.67	301.80	1.13	7.09	146.00	Central BRX
TR-10-04	314.50	316.00	1.50	12.50	237.00	Central BRX
TR-10-04	320.00	321.70	1.70	2.81	7.57	Central BRX
TR-10-06	37.90	41.90	4.00	6.40	27.48	Eastern BRX
TR-10-08	322.84	325.34	2.50	3.57	1.40	AEX
TR-10-08	441.80	446.80	5.00	1.70	1.10	Eastern BRX
TR-10-08	453.60	456.10	2.50	4.47	1.80	Eastern BRX
TR-10-09	220.67	235.52	14.85	2.55	37.83	Central Klaza
TR-10-09	346.42	347.34	0.92	1.18	178.00	BYG
TR-10-10	63.73	66.28	2.55	2.45	71.53	Central Klaza
TR-10-10	129.13	136.93	7.80	6.96	66.36	Central Klaza
TR-10-10	148.63	152.05	3.42	1.20	96.20	Central Klaza
TR-10-11	199.55	204.95	5.40	2.04	18.66	Central Klaza
TR-10-11	225.00	227.47	2.47	4.54	12.70	Central Klaza
TR-10-11	240.57	242.07	1.50	2.33	33.00	Central Klaza
TR-10-11	454.34	459.56	5.22	1.52	31.21	BYG
TR-10-12N	188.40	196.00	7.60	3.06	48.66	HERC
TR-10-12N	409.00	412.00	3.00	2.78	9.90	BYG
TR-10-12N	423.20	425.30	2.10	2.58	12.50	BYG
TR-10-12N	597.50	615.20	17.70	2.56	30.42	Central Klaza
TR-10-12N	711.00	715.00	4.00	1.01	27.20	Central Klaza
TR-10-12S	2.20	4.00	1.80	0.97	309.61	PIKA?
TR-10-12S	89.25	90.25	1.00	1.67	461.00	PIKA?
TR-10-13	301.58	303.58	2.00	2.44	5.80	Eastern Klaza
TR-10-14	240.00	241.50	1.50	2.53	133.00	AEX
TR-10-14	246.00	247.00	1.00	2.52	94.40	AEX

TR-10-14	252.00	253.50	1.50	5.60	56.90	AEX
TR-10-14	349.50	350.50	1.00	0.99	166.00	AEX
TR-10-14	361.70	362.70	1.00	9.31	996.00	Central BRX
TR-10-14	366.70	369.50	2.80	1.90	17.52	Central BRX
TR-10-15	38.90	39.90	1.00	2.32	1162.28	AEX
TR-10-15	50.40	53.45	3.05	1.96	14.02	AEX
TR-10-15	69.32	70.32	1.00	3.76	26.00	AEX
TR-10-15	121.50	126.00	4.50	2.92	140.01	Central BRX
TR-10-17	124.77	127.07	2.30	1.54	71.10	Central BRX
TR-10-17	136.87	143.87	7.00	0.96	99.00	Central BRX
TR-10-19	72.65	74.10	1.45	12.45	305.00	Central Klaza
TR-10-20	14.34	17.84	3.50	4.18	360.09	Central BRX
TR-10-21	2.18	10.86	8.68	4.01	434.87	Central BRX
TR-11-22	330.23	331.03	0.80	2.51	260.00	Eastern Klaza
TR-11-22	335.59	337.08	1.49	1.41	77.60	Eastern Klaza
TR-11-22	346.10	349.48	3.38	4.46	61.59	Eastern Klaza
TR-11-22	378.30	379.65	1.35	9.86	61.20	Eastern Klaza
TR-11-24	188.46	191.53	3.07	2.94	36.62	Western BRX
TR-11-26	165.60	180.28	14.68	2.13	7.94	BYG
includes	173.47	176.25	2.78	8.28	20.16	BYG
TR-11-26	232.00	234.00	2.00	23.90	39.70	Central Klaza
TR-11-27	62.94	64.14	1.20	0.53	155.00	Western Klaza
TR-11-28	172.19	172.94	0.75	5.19	421.00	Western Klaza
TR-11-30	62.50	63.80	1.30	4.87	634.00	Western Klaza
TR-12-01	51.00	56.00	5.00	0.31	103.00	Dickson
TR-12-01	147.50	151.82	4.32	2.51	52.92	Chevron?
TR-12-02	322.50	324.10	1.60	10.85	93.60	Dickson
TR-12-08	709.70	718.15	8.45	1.69	2.48	Eastern Klaza
TR-12-23	18.00	26.00	8.00	1.65	50.55	Central BRX
includes	22.60	26.00	3.40	3.02	72.91	Central BRX
TR-12-35	81.60	83.85	2.25	5.53	237.61	Western Klaza
TR-12-36	358.50	367.70	9.20	3.79	190.48	Chevron
includes	358.50	363.30	4.80	6.24	318.58	Chevron
TR-12-39	808.05	809.40	1.35	8.41	26.10	Stroshein
TR-13-18	24.00	26.15	2.15	1.37	44.90	Central BRX
TR-13-41N	325.77	336.49	10.72	2.85	20.04	Pearl
includes	326.97	328.22	1.25	19.75	148.00	Pearl
TR-13-41S	811.16	813.07	1.91	2.38	18.25	Far Eastern Klaza
TR-13-42	32.05	35.10	3.05	2.73	6.53	Eastern Klaza
TR-13-42	68.10	69.60	1.50	3.91	9.50	Eastern Klaza
TR-13-42	77.85	86.00	8.15	1.73	2.93	Eastern Klaza

includes	77.85	80.15	2.30	2.77	4.01	Eastern Klaza
includes	83.35	86.00	2.65	2.43	2.81	Eastern Klaza
TR-13-42	105.25	110.55	5.30	0.72	22.88	Eastern Klaza
TR-13-44	1.00	2.05	1.05	1.98	100.00	Central BRX
TR-13-44	21.30	23.80	2.50	1.15	108.00	Central BRX
TR-13-45	104.30	105.30	1.00	17.10	154.00	Western BRX
TR-13-46	263.77	266.77	3.00	1.83	16.50	Chevron
TR-13-46	304.68	317.75	13.07	1.35	12.60	Chevron
includes	304.68	310.66	5.98	2.26	22.34	Chevron
TR-13-47	30.05	31.20	1.15	87.00	768.00	Western BRX
TR-13-49	1.61	2.92	1.31	8.42	548.00	Central BRX
TR-13-51	0.00	1.00	1.00	2.68	97.30	Central Klaza
TR-13-51	11.19	12.19	1.00	0.90	2710.00	Central Klaza
TR-13-51	18.19	19.69	1.50	1.50	134.00	Central Klaza
TR-13-51	24.53	29.98	5.45	18.67	493.22	Central Klaza
includes	26.53	29.98	3.45	29.21	766.54	Central Klaza
TR-13-52	3.75	10.59	6.84	16.20	157.93	Central Klaza
includes	3.75	6.09	2.34	13.50	155.00	Central Klaza
includes	7.49	10.59	3.10	25.40	230.00	Central Klaza
TR-13-53	17.83	22.13	4.30	1.49	5.38	Far Eastern Klaza
TR-13-53	66.72	68.72	2.00	1.04	88.10	Far Eastern Klaza
TR-13-53	107.39	108.77	1.38	4.56	19.60	Far Eastern Klaza
TR-13-53	175.08	180.08	5.00	4.13	64.67	Far Eastern Klaza
TR-13-53	233.24	237.61	4.37	1.47	1.49	Far Eastern Klaza
TR-13-53	524.58	525.78	1.20	28.20	359.00	Pearl
TR-13-55	39.85	41.90	2.05	1.84	47.70	Western BRX?
TR-13-58	3.35	6.60	3.25	50.07	909.90	Western BRX
TR-13-59	8.85	15.20	6.35	1.02	61.65	Western BRX
TR-13-61	14.25	16.25	2.00	2.97	96.50	Central BRX
TR-13-62	4.85	7.85	3.00	0.95	74.80	Central BRX
TR-13-66	1.00	2.00	1.00	3.41	121.00	Central Klaza
TR-13-66	6.98	8.42	1.44	1.83	214.00	Central Klaza
TR-13-66	15.43	21.99	6.56	10.46	171.99	Central Klaza
includes	18.72	20.99	2.27	25.70	449.00	Central Klaza
TR-13-67	35.00	38.55	3.55	31.38	310.31	Western BRX
TR-13-67	43.70	48.70	5.00	3.34	80.77	Western BRX
TR-13-68	9.30	11.30	2.00	2.08	274.00	Western BRX
TR-13-68	19.75	21.25	1.50	1.42	166.00	Western BRX
TR-13-69	5.16	9.76	4.60	8.29	295.35	Western Klaza
TR-13-70	2.50	7.03	4.53	11.36	729.95	Western Klaza
includes	2.50	4.00	1.50	24.70	2000.00	Western Klaza

TR-13-71	0.00	1.80	1.80	4.82	53.92	Western Klaza
TR-13-73	1.00	6.20	5.20	15.18	300.90	Western BRX
includes	3.70	6.20	2.50	26.10	574.00	Western BRX
TR-13-74	12.45	14.70	2.25	31.20	1030.00	Western BRX
TR-13-75	4.75	6.20	1.45	11.50	1680.00	Western BRX
TR-13-75	17.24	20.24	3.00	34.70	160.00	Western BRX
TR-13-77	3.60	7.18	3.58	9.16	430.28	Western BRX
includes	5.08	7.18	2.10	14.40	729.00	Western BRX
TR-14-13	188.60	189.90	1.30	5.83	390.00	Eastern Klaza
and	226.70	227.70	1.00	3.78	9.85	Eastern Klaza
and	246.60	248.60	2.00	2.65	12.48	Eastern Klaza
and	285.70	286.60	0.90	2.64	3.23	Eastern Klaza
and	397.70	399.70	2.00	1.97	2.42	Eastern Klaza
TR-14-79	16.20	17.20	5.90	1.13	12.22	Western Klaza
includes	20.70	22.10	1.40	2.75	27	Western Klaza
TR-15-80	208.9	209.9	1.00	41.3	241	Central Klaza
and	209.9	210.9	1.00	31.9	506	Central Klaza
TR-16-84	299	302.5	3.50	3.88	25.5	Unnamed
TR-17-093	85	86	1.00	5.43	149	Victoria
TR-17-093	168	168.40	0.40	10.10	356	Victoria

Work Areas 3, 4 and 6

Various types of trenching (hand pits, bulldozer and excavator) have also been conducted within Work Areas 3, 4 and 6. The trenching programs are summarized in: Brent, 1991 and 1992; Pautler, 1994; Smith, 2011; Carlyle, 1997; Turner, 2013; and, Stroshein 2001, 2003, 2004, and 2008. Table 14 lists the most significant mineralized intervals from trenching programs conducted in these work areas.

In 2016, four historical trenches were re-trenched and sampled in Work Area 6 after float samples from the old workings returned up to 10.8 g/t gold, 179 g/t silver and 5.00% lead. These trenches intersected two roughly northwest trending veins that returned up to 4.46 g/t gold and 11.25 g/t silver over 2.50 m. A total of 222 chip samples were collected from the four trenches over 590 combined metres. The best intervals from these veins are listed on Table 14 below.

Table 14: Significant Trench Results – Outside of Work Area 2

Trench	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone	Work Area	Claims
TR-11-04	-	-	36	1.17	2.5	-	6	Desk
TR-11-07	4.0	15.0	11	4.88	-	V1	3	Dade
TR-11-E	67.0	99.0	32	1.71	-	V1	3	Dade
TR-16-86	45	45.5	0.5	3.56	165	Unnamed	6	J.Bill

TR-16-88	40.5	43	2.5	4.46	11.25	Unnamed	6	J.Bill

DIAMOND DRILLING

In 2010, diamond drilling was contracted to Top Rank Diamond Drilling Ltd. of Ste. Rose du Lac, Manitoba, and was done with two skid-mounted, diesel-powered JKS-300 drills using NTW and BTW equipment.

In 2011, diamond drilling was contracted to three companies: Swiftsure Diamond Drilling Ltd. of Nanaimo, British Columbia; Strike Diamond Drilling of Kelowna, British Columbia; and, Elite Diamond Drilling of Vernon, British Columbia. The work was done using two skid-mounted, diesel-powered A-5 drills and one skid-mounted, diesel-powered JKS-300 drill. The A-5 drills used HQ equipment while the JKS-300 used BTW equipment.

In 2012, diamond drilling was contracted to four companies: Swiftsure, Strike, Elite, and Platinum Diamond Drilling Inc. of Winnipegosis, Manitoba. The work was done using three skid-mounted, diesel-powered A-5 drills and one skid-mounted, diesel-powered JKS-300 drill. The A-5 drills used HQ and NQ equipment while the JKS-300 used BTW equipment.

Diamond drilling in 2014 was contracted to Platinum. The work was done using two skid-mounted, diesel powered A-5 drills and one skid-mounted, diesel-powered Discovery II drill. The A-5 drills used HQ and NQ equipment while the Discovery II used NQ equipment.

In 2015, diamond drilling was contracted to Platinum. The work was done using two skid-mounted, diesel-powered A-5 drills. The A-5 drills used both HQ and NQ equipment.

In 2016, diamond drilling was contracted to Platinum. Drilling was done using two skid-mounted, diesel-powered A-5 diamond drills. The A-5 drills used HQ and NQ equipment.

In 2017, diamond drilling was contracted to Platinum. Drilling was done using two skid-mounted, diesel-powered A-5 diamond drills. The A-5 drills used HQ and NQ equipment.

In 2019, diamond drilling was contracted to Kluane Drilling. Drilling was done using two skid-mounted, diesel-powered KD-1000 diamond drills. The drills used NTW and HTW equipment.

In 2020, diamond drilling was contracted to Kluane Drilling. Drilling was done using two skid-mounted, diesel-powered KD-1000 diamond drills. The drills used BTW, NTW and HTW equipment.

Work Area 2

This section summarizes diamond drill programs completed by Rockhaven in Work Area 2 since 2010.

A total of 480 diamond drill holes (103,919.11m) have been completed in and around the KVS since 2010, as summarized in Table 15. A total of 1,947 samples were collected from 3,718.86m of drill core in 2020. Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis are in Appendix IV. Geological and Geotechnical Logs can be found in Appendix VI. Significant Drill Intersections from diamond drill programs conducted since 2010 are shown in Appendix VII.

Table 15: 2010 to 2020 Diamond Drilling Summary – Klaza Vein System

Year	Holes Drilled	Total Drilled (m)
2010	11	1,642.09
2011	52	14,067.85
2012	73	21,801.75
2013	0	0
2014	104	19,242.35
2015	55	13,345.68
2016	44	8,426.84
2017	96	15,921.55
2018	0	0
2019	33	5,752.14
2020	12	3,718.86
TOTAL	**480**	**103,919.11**

Most diamond drill holes were collared at dips of -50° (with the exception of vertical water monitoring holes and a handful of others) and most of the holes have azimuths of 030° to 037° (north-northeast).

A total of 11 drill holes in 2020 were completed in order to test exploration targets, with three holes testing the Central Pearl Zone, and the remaining 8 holes testing the previously undrilled Etzel, Victoria and Kelly South targets. Additionally, a single drill hole was completed in the Central Klaza Zone and was designed to test the continuity of the structures at depth. Drill hole locations from the 2020 program can be found in Figure 25.

The diamond drill programs completed by Rockhaven since 2010 have successfully expanded zones of gold and silver mineralization identified by previous operators and discovered new zones elsewhere within the KVS. The various zones have a drill confirmed, cumulative mineralized strike length of more than ten kilometres.

Table 16 shows the drill confirmed strike length of each of the main zones, the maximum down-dip intersect depth in each zone and a highlight, gold-biased drill intersect from each of the zones.

Table 16: Drill Data for Main Mineralized Zones – Klaza Vein System

Zone	Mineralized Strike Length (m)	Maximum Down-dip Drill Intersect (m)	Highlight Drill Intersect
Western Klaza	450	250	13.75 g/t gold and 357 g/t silver over 2.11 m (KL-12-115)
Central Klaza	850	450	182.00 g/t gold and 231 g/t silver over 0.61 m (KL-17-376)
Eastern Klaza	1,100	180	34.10 g/t gold and 47.5 g/t silver over 1.00 m (KL-12-068)
Western BRX	500	520	196.00 g/t gold and 608 g/t silver over 0.91 m (KL-17-401)
Central BRX	1,900	400	11.30 g/t gold and 233 g/t silver over 1.52 m (KL-12-114)
Pika	740	250	32.52 g/t gold and 34.3 g/t silver over 3.36 m (KL-10-06)
AEX	1650	310	9.03 g/t gold and 27.7 g/t silver over 1.00 m (KL-12-125)
BYG	800	310	6.29 g/t gold and 342 g/t silver over 1.43 m (KL-11-063)
Western BYG	250	115	5.96 g/t gold and 45 g/t silver over 0.77 m (KL-15-253)
Eastern BYG	450	100	2.09 g/t gold and 5.68 g/t silver over 2.57 m (KL-14-234)
Dickson	450	100	7.08 g/t gold and 127 g/t silver over 1.00 m (KL-12-86)
HERC	460	310	3.39 g/t gold and 205 g/t silver over 2.28 m (KL-12-095)
Chevron	250	90	3.97 g/t gold and 95.4 g/t silver over 1.26 m (KL-12-120)
Stroshein	450	280	5.29 g/t gold and 10.97 g/t silver over 3.09 m (KL-16-300)
Rex	?	60	10.55 g/t gold and 44.7 g/t silver over 1.42 m (KL-16-314)
Pearl	580	270	5.28 g/t gold and 1,054 g/t silver over 1.60 m (KL-19-439)

All of the mineralized zones listed above begin at or near surface and are open to expansion along strike and to depth.

Although significant drill intersections have been obtained from twelve main mineralized zones found to date, the focus of the most diamond drilling has been the BRX and Klaza zones. Descriptions of the mineralized zones are described below. Drill sections are included for the Western BRX, Central BRX, Central Klaza and Western Klaza zones in Figures 26 to 30, respectively.

The **BRX Zone** has been traced for approximately 2,400 m along strike and been tested to a maximum depth of 520 m down-dip. Mineralization is associated with a laterally extensive northwest striking and moderately to steeply southwest dipping feldspar porphyry dyke. Veins

occur on the margins of that dyke and, where the dyke bifurcates, the number of veins increases which sometimes results in wider mineralized intervals.

The ***Western BRX Zone*** consists of quartz veins and vein zones that contain pyrite, arsenopyrite, galena, sphalerite, chalcopyrite and sulphosalts. Carbonate gangue facies in these veins are manganiferous carbonates. Figure 26 illustrates the geometry of mineralization defining this zone. The best intersect is in KL-17-401, which returned 192.00 g/t gold and 608 g/t silver over 0.91m. When combined with adjacent minor veins, the interval becomes 94.09 g/t gold and 545 g/t silver over 2.63 m KL-14-238 intersected multiple veins within an 18.5 m interval that averaged 2.19 g/t gold and 120 g/t silver. The best of the veins in that interval graded 16.29 g/t gold and 1435 g/t silver over 1.37 m. KL-14-238 intersected the zone 520 m down-dip from surface.

The ***Central BRX Zone*** features veins and vein zones that are dominated by quartz, pyrite and iron-rich carbonates (ankerite and siderite). Pyrite, sphalerite and galena are the main sulphide minerals, while arsenopyrite and sulphosalts are absent or present in only minor quantities. Figure 27 shows a type section depicting the geometry of the mineralized veining relative to the dyke. The best intervals from the Central BRX Zone came from KL-12-114, which graded 11.30 g/t gold and 233 g/t silver over 1.52 m and KL-14-197 which returned 6.76 g/t gold and 978 g/t silver over 0.73 m.

The ***Eastern Zones*** consist of stacked sub-parallel quartz veins and veinlets that form a broad, bulk-tonnage style vein zone. Mineralized veins typically host pyrite, arsenopyrite, galena, sphalerite ± chalcopyrite and sulphosalts. Carbonate gangue facies in these veins are a mix of manganiferous and iron-rich carbonates (rhodochrosite and ankerite). Due to widespread veining that is difficult to correlate across drill holes, the Eastern Zones are best interpreted using grade histograms, as seen on Figure 28. Highlight drill results from this area include 6.86 g/t gold and 153 g/t silver over 2.27 m, and 2.25 g/t gold and 40 g/t silver over 12.58 m (KL-12-114). Drilling in 2019 encountered bulk-tonnage style vein zones, with the best results grading 19.40 g/t gold and 240 g/t silver over 0.69 m (KL-19-460) and 0.67 g/t gold and 8.7 g/t silver over 29.40 m (KL-19-450).

The mineralogical differences between the Western BRX and Central BRX zones suggest some degree of vertical off-set along a major cross-fault, separating the two segments of the zone.

The **Klaza Zone** is located about 800 m northeast of the BRX Zone. The zone has been tested along section lines spaced approximately 50 m apart. The three sub-zones – Eastern Klaza Zone, Central Klaza Zone and Western Klaza Zone each have a distinct style of mineralization that is believed to reflect their respective distances from the hydrothermal centre. The Central and Western Klaza zones are off-set by the northeasterly trending cross-faults that separate the corresponding sections of the BRX Zone.

The ***Western Klaza Zone*** is defined by two narrow high-grade silver-gold bearing veins (extending west from section KL 9+900). Unlike other zones in the KVS, these veins are not emplaced alongside feldspar porphyry dykes and they are not flanked by the type of sheeted veining seen elsewhere in the Klaza Zone. The mineral assemblages in the Western Klaza Zone contain higher proportions of arsenopyrite and sulphosalts than are common further east in the

Klaza Zone, which result in significantly higher silver:gold ratios. Highlight drill intercepts from this zone include 4.51 g/t gold and 332 g/t silver over 7.12 m, including 13.75 g/t gold and 357 g/t silver over 2.11 m (KL-12-115); and 15.38 g/t gold and 741 g/t silver across 1.46 m (KL-14-220). Figure 30 illustrates the geometry of mineralization defining this zone.

Mineralization in the ***Central Klaza* Zone** (east of section KL 9+900 m and west of section KL 10+500 m) is hosted within a laterally extensive complex of steeply dipping veins, breccias and sheeted veinlets, which are associated with a swarm of feldspar porphyry dykes. The strongest veins are typically found along dyke margins. Pyrite, arsenopyrite, galena and sphalerite are the main sulphide minerals in this sub-zone. Drilling highlights from this zone include 182.00 g/t gold and 231 g/t silver over 0.61 m (KL-17-376) and 11.90 g/t gold and 5.23 g/t silver across 6.70 m (KL-12-133). Figures 28 and 29 show the geometry of the mineralized veining relative to the dyke.

The ***Eastern Klaza Zone*** (extending east from section KL 10+500) lies closest to the hydrothermal centre and is characterized by gold-silver bearing veins forming a broad, sheeted complex. The mineral assemblages and precious metal contents in this area are distinguished from those of the Central Klaza Zone in two ways: 1) sulphide veins are dominated by pyrite with lesser galena and arsenopyrite; and 2) silver:gold ratios are lower than in the Central Klaza Zone. The best drill result from the Eastern Klaza Zone graded 1.43 g/t gold and 2.69 g/t silver over 18.03 m (KL-12-121).

The **BYG Zone**, located 125 m to the south, approximately parallels the Klaza Zone. It is divided into two parts, which are described below.

The ***Central BYG Zone*** has been traced 650 m along strike and is associated with a series of siliceous, brown coloured feldspar porphyry dykes. The Central BYG Zone is slightly discordant to the Klaza Zone, and no work has been done along its eastern projection to determine if it coalesces with the Klaza Zone or crosscuts it and continues to the east. The best intersects graded 4.57 g/t gold and 51.6 g/t silver across 3.97 m (KL-10-05), 6.29 g/t gold with 309 g/t silver across 1.43 m (KL-11-063) and 5.51 g/t gold and 141 g/t silver across 2.95 m (KL-15-265).

The ***Western BYG Zone*** parallels the Western Klaza Zone and has been traced for 250 m. It is associated with the same siliceous feldspar porphyry dykes as the Central BYG Zone. The best drill intercept graded 11.22 g/t gold with 10.6 g/t silver over 1.68 m (KL-14-224).

The **Herc Zone** has only been tested by two diamond drill holes spaced approximately 300 m apart. These holes were originally designed to intersect the Pika Zone, but were extended to reach the Herc Zone. Both holes cut vein-style mineralization, approximately 300 m down-dip of trench exposures. The best result from drilling was an interval that graded 3.39 g/t gold and 205 g/t silver over 2.28 m (KL-12-095).

The **Pika Zone** lies between the Herc Zone to the north and the BRX Zone to the south. This zone displays strong continuity across widely-spaced drill holes, over a strike length of 740 m and to a depth of 250 m. The best drill results from this zone are 2.25 g/t gold and 40 g/t silver

across 12.58 m, including 9.55 g/t gold and 137 g/t silver over 1.00 m and 11.3 g/t gold and 233 g/t silver over 1.52 m (KL-12-114).

The **AEX Zone** is located approximately 150 to 200 m south of the BRX Zone. It is one of the largest zones on the property with a drill indicated strike length of 1,650 m. The best drill intersects from the AEX Zone graded 9.03 g/t gold and 27.7 g/t silver over 1.00 m (KL-12-091), and26.9 g/t gold and 576 g/t silver over 0.42 m (KL-15-248).

The **Dickson Zone** has been tested by 10 drill holes in three areas located approximately 2,000 m apart. Limited drilling in the ***Western Dickson Zone*** has returned up to 2.37 g/t gold and 34.4 g/t silver over 1.23 m (KL-12-01). Only two drill holes have tested the inferred area of the ***Central Dickson Zone*** to date. The best result from this area was 3.17 g/t gold and 40 g/t silver over 0.98 m (KL-17-379). In the ***Eastern Dickson Zone***, five drill holes have been completed with the best result grading 2.18 g/t gold and 4.81 g/t silver over 2.36 m.

The **Chevron Zone** hosts multiple vein structures that have been tested by seven diamond drill holes across the western, central and eastern sub-zones. Two diamond drill holes have been completed in the ***Western Chevron Zone***, with the best results grading 3.38 g/t gold and 78.6 g/t silver over 3.09m (KL-12-108) and 3.97 g/t gold and 94 g/t silver over 1.26 m (KL-12-120). A total of two drill holes have also been completed in the inferred area of the ***Central Chevron Zone***. The best result from this area graded 1.56 g/t gold and 444 g/t silver over 0.5 m (KL-17-386). In the ***Eastern Chevron Zone***, five drill holes have been completed. The best result from this area was 7.08 g/t gold and 127 g/t silver over 1 m (KL-12-086).

The **Stroshein Zone**, located 100 m south of the Eastern Klaza Zone, has been tested by nine drill holes along approximately 450 m of strike length, to a down-hole depth of 281.91 m. This zone lies along a magnetic low and is supported by anomalous soil geochemical results. The best results from this zone graded 2.06 g/t gold and 5.86 g/t silver over 10.76 m.

The **Rex Zone** is located approximately 1,100 m south of the Eastern BRX Zone, and represents the most southerly vein zone identified to date in the KVS. The discovery hole, KL-16-314, encountered three near surface veins with the best intersect returning 10.55 g/t gold and 44.7 g/t silver over 1.42 m. Three additional holes were drilled around the original collar to determine the orientation of the Rex veining. Hole KL-17-434 intersected three veins shallower than 45 m in depth. The best of these zones graded 9.31 g/t gold and 7 g/t silver over 0.61 m.

The **Kelly Zone** has been tested by four diamond drill holes. The best results came from hole KL-12-134, which averaged 0.14 g/t gold, 2.7 g/t silver, 0.15% copper, and 0.010% molybdenum over 95.15 m. Following favorable results from the IP survey in 2016, two additional diamond drill holes (KL-16-309 and KL-16-314) were collared 950 metres apart, to test parts of the chargeability and resistivity anomalies. Porphyry-style mineralization in these holes consists primarily of veins and veinlets hosting pyrite with lesser chalcopyrite and rare coarse-grained native arsenic. Assays from intervals within the chargeability anomaly yielded weakly elevated levels of copper and gold.

<u>Work Areas 3, 4 and 6</u>

During the 2020 program, 10 diamond drill holes (2,323.45m) were completed in Work Area 6. A total of 778 samples were collected from 2,323.45 of drill core. Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis are in Appendix IV. Geological and Geotechnical Logs can be found in Appendix VI. Significant Drill Intersections from the 2020 diamond drill program are shown in Appendix VII and in Table 17.

The Rusk occurence is located three kilometres south of the Klaza deposit and hosts a 2.6 km^2 highly elevated arsenic-in-soil anomaly, which is adjacent to the largest placer gold deposit in the Mount Nansen gold camp. The area of elevated soil geochemistry is transected by linear magnetic lows and very-low-frequency electromagnetic conductors, similar to those marking the main mineralized zones that comprise the Klaza deposit. Prior to the 2020 program, the geochemical and geophysical anomalies had never been drill tested.

Diamond drilling in 2020 was focused in and around the previously undrilled Rusk occurrence and used a 1.4 km long drill fence to evaluate the anomalous area. This program was very successful and resulted in the discovery of numerous mineralized structures. Of note, a wide zone was discovered that was pierced in the upper portion of the third hole (KL-20-470 averaged 1.42 g/t gold, 30.7 g/t silver, 0.48% lead and 0.60% zinc over 9.80 m) and the lower portion of the fourth hole **(**KL-20-471 returned 2.05 g/t gold, 129 g/t silver, 2.29% lead and 4.67% zinc over 5.65 m). These zones may be part of the same structure and is expected to be one of the main focuses of 2021 follow-up drilling.

All diamond drill holes were collared at dips of -50° and have an azimuth of 037° (north-northeast) as shown on Figure 25.

Small, historic diamond drilling programs by other operators have taken place in Work Areas 3, 4 and 6. These diamond drill programs are summarized in the Exploration History section of this report and are described in more detail in: Burrell, 2013a; Robinson, 1959; McClintock, 1986; Heberlein and Lyons, 1986; Langdon, 1992; and Stroshein, 2008. Table 17 shows significant drill results from these programs.

Table 17: Significant Drill Results – Outside of Work Area 2

Hole	Type	From (m)	To (m)	Int. (m)	Au (g/t)	Ag (g/t)	Zone	Work Area	Claims
DDH-12-02	Diamond	38.71	41.76	3.05	2.05	-	V1	3	Dade
DDH-12-09	Diamond	9.7	11.07	1.37	2.45	-	V1	3	Dade
DDH-12-14	Diamond	13.54	14.74	1.20	2.44	-	V1	3	Dade
RCH-12-21	RC	47.00	48.52	1.52	5.32	-	V1	3	Dade
DOWS-88-1	Diamond	-	-	7.50	2.43	-	-	6	Sked
DDH-96-2	Diamond	-	-	2.61	5.51	13.13	-	6	Sked
DDH-96-6	Diamond	-	-	5.90	6.64	-	-	6	Sked
KL-20-469	Diamond	82.63	83.63	1.00	2.10	656.6	Rusk	6	J. Bill
KL-20-470	Diamond	33.10	46.50	13.4	1.14	25.8	Rusk	6	J. Bill

Incl.	Diamond	40.06	41.00	0.94	4.67	122	Rusk	6	J. Bill
and	Diamond	60.00	60.40	0.40	12.30	276	Rusk	6	J. Bill
and	Diamond	123.90	124.53	0.63	16.35	321	Rusk	6	J. Bill
KL-20-471	Diamond	59.50	61.50	2.00	2.26	227.4	Rusk	6	J. Bill
Incl.	Diamond	61.00	61.50	0.50	7.08	884	Rusk	6	J. Bill
and	Diamond	201.00	206.65	5.65	2.05	129.4	Rusk	6	J. Bill
KL-20-473	Diamond	53.50	54.20	0.70	4.43	1230	Rusk	6	J. Bill
and	Diamond	115.80	117.17	1.37	6.17	229.8	Rusk	6	J. Bill
Incl.	Diamond	116.67	117.17	0.50	16.15	581	Rusk	6	J. Bill
KL-20-475	Diamond	132.60	133.10	0.50	1.14	712	Rusk	6	J. Bill

PERCUSSION DRILLING

In 2011, 2,940 m of reverse circulation percussion drilling was completed in 21 widely spaced holes. Most of this drilling tested across magnetic lows located in an overburden-covered area, in the Klaza River valley, along strike to the west of the KVS. Percussion drilling was completed by Midnight Sun Drilling Ltd. of Whitehorse, Yukon. This drilling was done using a track-mounted, diesel-powered reverse circulation percussion drill. The locations of the percussion holes are shown on Figure 31 overlain by first vertical derivative magnetic results.

The best intersects from percussion drilling were from PDH-11-02 and PDH-11-03 which returned up to 0.481 g/t gold, 19.1 g/t silver and greater than 10,000 ppm lead over 1.5 m, and 0.395 g/t gold, 14.3 g/t silver and 952 ppm lead over 1.5 m, respectively. Two five-foot intervals that returned anomalous values for gold and lead were re-assayed after gold-panning the remaining percussion chips into a concentrate. Sample Handling and Analytical Procedures are described in Appendix III, while Certificates of Analysis are in Appendix IV.

GEOTECHNICAL AND HYDROGEOLOGICAL TESTING

In 2015, five groundwater monitoring wells (KL-15-289, KL-15-290 and KL-15-292 to KL-15-294) were installed in diamond drill holes, immediately adjacent to the current deposit areas by EBA Engineering Consultants Ltd (EBA Engineering) of Whitehorse. Also in 2015, vibrating wireline piezometers (VWP) were installed in four drill holes (KL-15-252 through KL-15-255) to monitor ground water levels and a thermistor was installed in another hole (KL-15-257) to monitor seasonal frost variations. Packer tests were conducted on the VWP holes in order to determine the hydraulic conductivity of the various rock units. Surface water testing, ground water levels and thermistor readings were collected on a quarterly basis up until 2017. A summary, compiled by EBA Engineering, of packer test data and analysis can be found in Tarswell et al., 2015.

A Reflex ACT III downhole digital core orientation system was used in 2014 and 2015 to orient the core in a total of 46 holes. In 2015, 18 of the 19 oriented holes were drilled using split tubes. The use of split tubes allowed orientation measurements to be collected across incompetent intervals or intervals with poor recovery. Split tube intervals were oriented by Archer Cathro employees at the drill sites. The core tube was first aligned by the driller's helper using the ACT

III tool before the split tube was extracted from the core tube. Care was taken to not shift the core during this process. A line representing the top of the hole was marked down the length of the core by the Archer Cathro employees. Structural orientation measurements within the interval were taken prior to the core being transferred to core boxes.

BASELINE WATER QUALITY AND WEATHER DATA COLLECTING

In March 2012, Rockhaven contracted J.Gibson Environmental Consulting to begin conducting baseline water quality surveys on the surface waters draining the Property from 10 sites. The baseline survey tests for routine chemistry, total and dissolved metals, total organic carbon and total cyanide, pH measurements, water temperature and flow volumes. This testing expanded to quarterly tests on the Property across 11 sites and was continued until 2015.

In August 2020, Rockhaven contracted Tutchone Environmental to resume quarterly water testing on the property. One new sample site due to placer mining activity and brought the total number of surface sample sites to 12. Additionally, groundwater samples were collected from 5 groundwater monitoring wells.

In June 2013, an Onset Hobo weather station was installed by J.Gibson Consulting to collect continuous weather data. The station measures wind speed, wind gusts, wind direction, solar radiation, relative humidity, temperature (minimum and maximum) and rainfall precipitation. No data has been collected since 2017.

MINERAL PROCESSING AND METALLURGICAL TESTING

Multiple advanced mineralogical and metallurgical testwork campaigns have been conducted on samples from various parts of the KVS. Initial work was conducted by SGS Canada Ltd. (SGC), with follow-up work performed by Blue Coast Research (Blue Coast). The test programs have included quantitative mineralogical examination, gravity recovery, cyanide leaching, flotation testing (both batch and locked cycle), pressure oxidation and an initial evaluation of pre-concentration methods.

In 2014, Rockhaven contracted SGS to conduct basic scoping flotation and leaching testwork on four drill core composites: two from the Klaza Zone and two from the BRX Zone.

From 2015 to 2018, Rockhaven contracted Blue Coast to conduct in-depth metallurgical testwork programs on composites prepared from representative core samples from a number of zones within the KVS. The majority of testing was focused on samples from the Eastern and Western BRX and the Central and Western Klaza zones. Drill holes that were selected for use in representative composite samples and pre-concentration testing are shown on Figure 33. Results from this work suggested that pre-concentration is a promising opportunity for the project, and further investigation is warranted (Cruz and Turner, 2017). The overall response of the project-wide composite, in terms of key metal recoveries, is shown below in Table 18 (Ross et al, 2018).

Table 18: Summary of metal recovery to doré and concentrates

	Lead	Zinc	Silver	Gold
Pb to lead concentrate	85%			
Zn to zinc concentrate		85%		
Au to doré Au to lead concentrate Au to zinc concentrate				87% 4% 5%
Ag to doré Ag to lead concentrate Ag to zinc concentrate			11% 53% 27%	
Total Metal Recoveries to payables products	**85%**	**85%**	**91%**	**96%**

MINERAL RESOURCE ESTIMATION

In January 2015, Rockhaven announced a maiden inferred mineral resource estimate was completed for the Western and Central Klaza, Western BRX, Central BRX and a portion of the Eastern zones (Wengzynowski et al., 2015). In December of the same year, Rockhaven released an updated mineral resource estimate for portions of the Klaza and BRX zones (Ross, 2016).

In 2018, another updated mineral resource estimate was completed for the Western and Central Klaza and BRX zone, using the results of drilling carried out on the property. Indicated and Inferred resource estimations are shown in Tables 19 and 20, and a breakdown by mineralized zones is given in Tables 21 to Table 24. The mineral resource estimation was completed by Adrienne Ross, P. Geo (of AMC Mining Consultants Ltd.) who is a Qualified Person (QP) and independent of Rockhaven, based on the criteria defined by National Instrument 43-101.

Table 19: Indicated Resource in Pit-Constrained and Underground

	Tonnes (kt)	Grade				
		Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Au EQ (g/t)
Pit-Constrained	2,447	5.3	90	0.7	1.00	6.7
Underground	2,010	4.2	108	0.8	0.9	5.8
Total	**4,457**	**4.8**	**98**	**0.7**	**0.9**	**6.3**
	Tonnes (kt)	**Contained Metal**				
		Au (koz)	**Ag (koz)**	**Pb (klb)**	**Zn (klb)**	**Au EQ(koz)**
Pit-Constrained	2,447	414	7,096	39,143	52,935	529
Underground	2,010	272	6,974	34,125	39,172	379
Total	**4,457**	**686**	**14,071**	**73,268**	**92,107**	**907**

Table 20: Inferred Resource in Pit-Constrained and Underground

	Tonnes (kt)	Grade				
		Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	Au EQ (g/t)
Pit-Constrained	1,754	2.6	43	0.4	0.5	3.3
Underground	3,960	2.8	90	0.7	0.8	4.2
Total	**5,714**	**2.8**	**76**	**0.6**	**0.7**	**3.9**
	Tonnes (kt)	**Contained Metal**				
		Au (koz)	**Ag (koz)**	**Pb (klb)**	**Zn (klb)**	**Au EQ(koz)**
Pit-Constrained	1,754	147	2,429	14,897	18,599	187
Underground	3,960	359	11,472	62,647	70,578	538
Total	**5,714**	**507**	**13,901**	**77,554**	**89,176**	**725**

Table 21: Indicated Mineral Resources (grade) as of December 31, 2017 by Zone

Zone	PC/UG	Tonnes (kt)	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	AuEQ (g/t)
Western BRX	Pit-Constrained	759	9.5	109	0.9	1.0	11.2
	Underground	510	6.7	122	0.9	1.1	8.5
	Total	**1,269**	**8.4**	**115**	**0.9**	**1.0**	**10.1**
Central BRX	Pit-Constrained	289	2.9	150	0.8	1.3	5.1
	Underground	424	1.9	106	1.0	1.1	3.6
	Total	**713**	**2.3**	**124**	**0.9**	**1.2**	**4.2**
Western Klaza	Pit-Constrained	139	4.8	234	0.8	0.9	7.8
	Underground	361	4.0	181	0.6	0.7	6.4
	Total	**500**	**4.2**	**195**	**0.6**	**0.8**	**6.8**
Central Klaza	Pit-Constrained	1,260	3.3	49	0.6	0.9	4.3
	Underground	715	3.9	62	0.6	0.7	5.0
	Total	**1,976**	**3.5**	**54**	**0.6**	**0.9**	**4.5**

Table 22: Indicated Mineral Resources (contained metal) as of December 31, 2017 by Zone

Zone	PC/UG	Au (koz)	Ag (koz)	Pb (klb)	Zn (klb)	AuEQ (koz)
Western BRX	Pit-Constrained	232	2,671	15,312	16,201	273
	Underground	110	2,001	10,341	11,920	140
	Total	**341**	**4,672**	**25,653**	**28,120**	**414**
Central BRX	Pit-Constrained	27	1,396	5,029	8,141	47
	Underground	26	1,443	9,793	10,171	50
	Total	**53**	**2,838**	**14,822**	**18,312**	**97**
Western Klaza	Pit-Constrained	21	1,043	2,388	2,722	35
	Underground	47	2,099	4,440	5,773	74

	Total	**68**	**3,142**	**6,828**	**8,495**	**109**
Central Klaza	Pit-Constrained	133	1,987	16,414	25,871	173
	Underground	90	1,432	9,550	11,309	114
	Total	**223**	**3,419**	**25,964**	**37,180**	**288**

Table 23: Inferred Mineral Resources (grade) as of December 31, 2017 by Zone

Zone	PC/UG	Tonnes (kt)	Au (g/t)	Ag (g/t)	Pb (%)	Zn (%)	AuEQ (g/t)
Western BRX	Pit-Constrained	369	4.7	54	0.5	0.6	5.6
	Underground	974	3.7	93	0.7	0.9	5.2
	Total	**1,343**	**4.0**	**82**	**0.7**	**0.8**	**5.3**
Central BRX	Pit-Constrained	238	1.9	99	0.7	0.8	3.4
	Underground	1,187	1.7	102	1.0	0.9	3.3
	Total	**1,425**	**1.7**	**102**	**1.0**	**0.9**	**3.3**
Western Klaza	Pit-Constrained	2	1.8	118	0.3	0.6	3.3
	Underground	227	3.9	170	0.5	0.8	6.1
	Total	**542**	**3.8**	**169**	**0.5**	**0.8**	**6.0**
Central Klaza	Pit-Constrained	1,145	2.1	28	0.3	0.4	2.6
	Underground	1,572	3.0	68	0.5	0.7	4.1
	Total	**2,717**	**2.6**	**51**	**0.4**	**0.6**	**3.4**

Table 24: Inferred Mineral Resources (contained metal) as of December 31, 2017 by Zone

Zone	PC/UG	Au (koz)	Ag (koz)	Pb (klb)	Zn (klb)	AuEQ (koz)
Western BRX	Pit-Constrained	56	644	3,915	4,884	67
	Underground	116	2,906	16,044	19,976	162
	Total	**172**	**3,550**	**19,958**	**24,859**	**228**
Central BRX	Pit-Constrained	15	760	3,795	3,993	26
	Underground	64	3,896	26,215	23,401	126
	Total	**79**	**4,656**	**30,010**	**27,394**	**152**
Western Klaza	Pit-Constrained	0	8	12	26	0
	Underground	28	1,240	2,440	3,817	44
	Total	**28**	**1,248**	**2,452**	**3,842**	**44**
Central Klaza	Pit-Constrained	76	1,107	7,176	9,696	94
	Underground	151	3,431	17,948	23,385	206
	Total	**227**	**4,448**	**25,124**	**33,081**	**301**

CIM definition (2014) standards were used for the Mineral Resource.
Using drilling results to December 31, 2017.
Near surface Mineral Resources are constrained by an optimized pit shell at metal prices of US$1400 oz, $19/oz Ag, $1.10/lb Pb, $1.25/lb Zn.
Cut-off grades applied to the pit-constrained and underground Resources are 1.0 g/t Au EQ and 2.3 g/t Au EQ respectively.
Gold equivalent values were calculated using the following formulas:
Central Klaza: Au EQ= 1xAu+Ag/94.40+Pb/3.38+Zn/3.21
Western Klaza: Au EQ= 1xAu+Ag/93.09+Pb/3.28+Zn/3.20
Western BRX: Au EQ= 1xAu+Ag/95.34+Pb/3.41+Zn/3.37

Central BRX: Au EQ= 1xAu+Ag/99.08+Pb/3.79+Zn/4.31
and assuming: US$1400/oz Au, US$19/oz Ag, US$1.10/lb Pb and US$1.25/lb Zn with recoveries for each metal of Au: 97%, Ag: 81%, Pb: 62% and Zn: 56%.
Numbers may not add due to rounding.
All metal prices are quoted in US$ at an exchange rate of $0.80 US to $1.00 Canadian.
Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
Source: AMC Mining Consultants (Canada) Ltd.

Grade interpolation as completed predominantly using Ordinary Kriging (OK), except for the Central Klaza Zone, where grade was interpolated using a combination of OK, Multiple Indicator Kriging (MIK), Local Multiple Indicator Kriging (LMIK) and a Restricted Ordinary Kriging (ROK). Gold, silver, lead, zinc, copper, iron and arsenic were estimated. Copper and iron were estimated to provide data for a base metal to rock density regression analysis to facilitate density modelling. Arsenic was estimated to aid metallurgical assessment. The mineral resource estimate was completed using 322 drill holes totaling 68,948 m and 27,266 assays.

Mineralized domains were constructed by Archer Cathro to constrain the continuous higher grade main structures and veins. Dyke intersections were used as a marker to help constrain the orientation and position of the mineralization. In the previous estimate, high-grade solids were built to capture only vein mineralization and often consisted of only one or two samples in a drillhole. In this estimate, the three-dimensional solids were wider and incorporated waste.

For the OK estimation, 25 of Archer Cathro's mineralization wireframes were used to constrain the interpolation.

A combination of LMIK and ROK estimation was used to model complex, splay hosted mineralization delineated by relatively limited drilling in the Central Klaza area. AMC created a new mineralization envelope for the LMIK model based on nominal 0.3 g/t AuEQ boundary and broad geological control. An intermediate MIK model incorporating change of support was used to produce a selective mining unit (SMU) model for gold and silver. ROK was used to estimate lead, zinc, copper, iron and arsenic. The MIK models were converted to simplified, localized versions of the MIK models (LMIK) to replicate recoverable panel models on the SMU block dimensions, and then incorporating the ROK modelled elements as required.

The estimations were carried out using Datamine software, with Ordinary Kriging ("OK") employed as the interpolation method. A 3D block model with sub-celling was used. The search parameters chosen for the estimations were based on the drill spacing and variography. Data density allowed for only inferred resources to be classified.

A detailed description of the methodology used to calculate the current mineral resource can be found in the technical report entitled "Technical Report Describing Updated Diamond Drilling, Metallurgical Testing and Mineral Resources on the Klaza Property, Yukon, Canada" (Ross et al., 2018)

PRELIMINARY ECONOMIC ASSESSMENT

In July 2020, Rockhaven announced the results of an updated Preliminary Economic Assessment ("PEA") for the Property (Ross, 2020).

Highlights from the PEA, with a base case gold price of US$1,450/oz and an exchange rate of C$1.00 equal to US$0.72 are as follows (all figures in Canadian Dollars unless otherwise stated):

- Pre-Tax NPV(5%) of $529 million and an IRR of 45%, and a Post-Tax NPV(5%) of $378 million and an IRR of 37%;
- Using a +/- 20% sensitivity analysis for gold price, Post-Tax NPV(5%) of $540 million and 49% IRR at US$1,740/oz gold and a Post-Tax NPV(5%) of $211 million and 24% IRR at US$1,160/oz gold;
- 12-year mine life producing total payable metals of approximately 750,000 ounces gold and 13.8 million ounces silver;
- Initial capital costs of $244 million, which includes $32 million in contingency costs.Life-of-mine ("LOM") sustaining capital costs total $114 million;
- Average LOM operating cash cost of US$613/oz AuEQ* and total all-in sustaining cost of US$875/oz AuEQ*;
- Annual payable metal production exceeds 100,000 ounces AuEQ in years three through seven; and,
- Only the upper portions of three out of eleven known mineralized zones are included in Mineral Resources evaluated by this PEA, and there is excellent potential for value enhancement through additional exploration.

Tables 25 and 26 show economic results with varying metal prices and assumptions, and summarize projected production.

Table 25: Klaza Combined Open Pit and Underground Mining – Key Economic Assumptions and Results

Klaza	Unit	Value
Total Mineralized Rock Mined	kt	7,464
Gold Grade[1]	g/t	3.4
Silver Grade[1]	g/t	79
Lead Grade[1]	%	0.6%
Zinc Grade[1]	%	0.7%
AuEQ Grade[2]	g/t	4.43
Gold Recovery[1]	%	95%
Silver Recovery[1]	%	90%
Lead Recovery[1]	%	80%

Zinc Recovery[1]	%	80%
Gold Price	US$/oz	1,450
Silver Price	US$/oz	17.00
Lead Price	US$/lb	0.95
Zinc Price	US$/lb	1.00
Payable Gold Metal[3]	oz	751,472
Payable Silver Metal[3]	Moz	13.8
Payable Lead Metal[3]	Mlbs	50.0
Payable Zinc Metal[3]	Mlbs	50.1
Payable Gold Equivalent	Oz	980,561
Total Net Revenue	$M	1,975
Initial Capital Costs	$M	244
Sustaining Capital Costs	$M	114
Operating Costs (Total)[4]	$/t	111.8
Operating Cash Cost (AuEQ[2])	US$/oz AuEQ	612.6
Total All In Sustaining Cost (AuEQ[2])	US$/oz AuEQ	875.3
Mine Life	Yrs	12
Payback Period (Pre-tax)	Yrs	3.9
Payback Period (Post-tax)	Yrs	4.2
Cumulative Net Cash Flow (pre-tax)	$M	783
Pre-tax NPV(5%)	$M	529
Pre-tax IRR	%	45
Post-tax NPV(5%)	$M	378
Post-tax IRR	%	37

1. LOM average

2. Gold equivalent values for mining purposes assume base case metal prices and recoveries used in the PEA and are calculated using the following formula: AuEQ=1*Au+Ag/107.82+Pb/4.14+Zn/4.68
3. Overall payable % includes treatment, transport, refining costs and selling costs
4. Includes mine operating costs, milling, and mine G&A

Table 26: Klaza Economic Sensitivity Analysis (Post-tax)

		-20%			BASE CASE			+20%		
Variable	**Unit**	**Value**	**NPV**	**IRR**	**Value**	**NPV**	**IRR**	**Value**	**NPV**	**IRR**
Gold	US$/oz	$1,160	$211	24%	$1,450	$378	37%	$1,740	$540	49%
Silver	US$/oz	$13.60	$343	35%	$17.00			$20.40	$407	39%
Mining Cost	$/t	$44.1	$417	39%	$55.14			$66.2	$334	34%
Processing Cost	$/t	$33.3	$406	39%	$41.30			$50.0	$344	35%
LOM Capital	$M	$286	$456	60%	$380			$429	$280	23%

The Klaza project has been envisioned as a combined open-pit and underground mining operation. Open-pit mining is anticipated to be completed by a contract mining company while the underground operation will be owner-operator with the equipment owned and personnel employed by Rockhaven.
Grid electrical power will provide the majority of the electrical power to the project over the life of the mine. An on-site camp is envisioned to house mine and mill personnel.

Tables 27 and 28 show total capital and operating costs for development, processing and additional cost components.

Table 27: Total Capital Cost Estimate

Description	Cost ($M)
Underground development	**115**
Flotation tailings storage & residue tailings storage	**17**
Underground mine infrastructure	**21**
Mobile equipment	**32**
Processing plant	**103**

Surface infrastructure	**16**
Capital indirects	**10**
Contingency	**32**
Additional 5% sustaining for equipment rebuilds	**12**
Total capital cost	**358**
Initial capital	**244**
Sustaining capital	**114**

Table 28: Total Operating Cost Estimate

Description	Cost ($/t)
Mining cost	**55.14**
Processing cost	**41.64**
General and Administration cost	**15.00**
Total operating cost	**111.78**

Open-pit mining is anticipated to commence in Year 1 and produce a total of 1,181 kt of mineralized rock over three years. Peak open-pit production will be 598 kt in Year 2. A total of 6,283 kt of mineralized rock is anticipated to be produced from underground operations over the 12-year mine life, beginning in Year 1.Peak underground production will be 688 kt in Years 5 through 7.

Underground mining will be accomplished using mechanized longhole open stoping on 25 m sub-levels. A minimum stope width of 3.0 m was used in this study with dilution of 0.25 m in the hanging wall and 0.1 m in the footwall. Underground access will be achieved via four separate declines for the each of the four main zones. The Central Klaza decline will start from the base of the open-pit.

Waste rock will be used to backfill underground stopes as they are mined and to construct the tailings dams. The remainder will be disposed of in waste dumps on surface.
The Klaza process consists of comminution by crushing followed by semi-autogenous grinding and ball milling, with the ground product feeding a conventional sequential flotation circuit producing lead, zinc and arsenopyrite concentrates. The arsenopyrite concentrate is treated by

pressure oxidation (POX), followed by cyanide leaching of the POX residue to recover the gold. Precious metals are also leached from the lead concentrate to increase the overall gold recovery to doré and enhance saleability of the concentrate. Final products from this process are precious-metal-rich lead and zinc concentrates as well as gold and silver as doré.

The processing plant will operate year-round at a rate of approximately 1,900 tonnes per calendar day, and will achieve full throughput by Year 2. The average LOM feed grade is projected to be 3.40 g/t Au, 79 g/t Ag, 0.6% lead and 0.7% zinc.

Base metal concentrates will be dewatered and containerized for shipment to smelters. Flotation tailings will be thickened and sent to a conventional tailings impoundment, and the leached pressure oxidation residue will flow through cyanide destruction and be sent to a double-lined hydromet residue storage facility.

Although this study assumes a relatively small 250 tpd onsite POX circuit would be used, an arsenopyrite concentrate could be produced for shipment to a smelter in Nevada or China.This was not considered in this study at this time but will be investigated as the project advances. Process water will primarily be sourced from underground dewatering and surface run-off, with make-up from the nearby Klaza River as necessary.

Metallurgical testwork to support the PEA has been conducted on several composites from the Western Klaza, Central Klaza and Western BRX zones, as well as a Project-Wide Composite comprising a blend of material from these zones. Testwork included grinding, flotation and pressure oxidation work.

The results of the PEA were positive and there are numerous opportunities to enhance value, which include further drilling to expand resources and metallurgical testing to reduce processing costs and lower cut-off grades through pre-concentration.
Details of the PEA can be found in the technical report entitled “Technical Report and Preliminary Economic Assessment Update for the Klaza Property, Yukon, Canada” prepared by A. Ross, Ph.D., P.Geo and I. Kirchner, FAusIMM, M.A.I.G, and G. Methven, P.Eng., and M. Molavi, P.Eng., and D. Warren, P.Eng. of AMC Mining Consultants (Canada) Ltd. (mineral resource, mining, infrastructure and financial analysis) in cooperation with C.J. Martin, C.Eng., of Blue Coast Metallurgy Ltd. (metallurgy and processing), M. Dumala, P. Eng., of Archer, Cathro & Associates (1981) Limited (geological consulting), and B.Borntraeger, P.Eng of Knight Piésold (tailings). The PEA was based on the updated Mineral Resource estimate as shown in the section above.

DISCUSSION AND CONCLUSIONS

The Klaza property is situated in an active placer gold mining camp and historical hardrock gold and silver mining district, which lie within the southern portion of the Dawson Range Gold Belt. Other important areas within this belt include the prolific Klondike Goldfields, the Casino porphyry copper-gold-molybdenum deposit and the Coffee gold deposit.

The KVS hosts a significant gold-silver deposit within a 100% owned and road-accessible claim block. The current mineral resource is defined within portions of the BRX, Klaza and BYG zones, which are three of twelve main mineralized structures identified to date within the KVS. New discoveries continue to be made within the KVS, with the Stroshein and Rex Zone discoveries in 2016, the Pearl and Victoria zones in 2017, and the Etzel and Rusk zones in 2020.

Mineralization is part of a porphyry to epithermal transition model, with the Late Cretaceous aged Mount Nansen Porphyry Complex (Cyprus and Kelly porphyry systems) considered to be the primary heat source for vein mineralization on the property. Although vein mineralization is complex, the continuity of vein zones in the KVS is remarkably planar and cohesive, both laterally and vertically. Gold and silver distribution varies throughout the KVS, but the highest values for both metals are mostly clustered within the western parts of the BRX and Klaza zones.

Mineralogical work on samples of sulphide material taken from the zones comprising the mineral resource has shown that gold occurs in multiple forms: as discrete (free) grains, as electrum, and as refractory gold predominantly found in arsenopyrite and pyrite. Silver occurs primarily as tetrahedrite, but is also found as electrum and in silver-bearing sulphides. Base metal mineralogy is dominated by galena, sphalerite and chalcopyrite.

Metallurgical work completed to date includes conventional gravity separation, cyanide leaching, flotation tests (batch and locked cycle), pressure oxidation tests, and preliminary work on dense media separation. Flotation work has focused on producing lead, zinc and gold-rich bulk sulphide concentrates through sequential flotation. Locked-cycle tests have yielded promising recoveries and grades. Pressure oxidation and subsequent leaching have confirmed recovery for the refractory gold components. Overall projected recoveries to saleable products based on locked-cycle testing of the full flowsheet are 96% for gold, 91% for silver and 85% for lead and zinc.

Variability work suggests that mineralization from the central and western portions of the Klaza and BRX zones responds similarly and is represented well by the Project Wide Composite. Minimal test work has been conducted on the Eastern Zones, and follow-up work is underway to evaluate opportunities to maximize recovery from that portion of the mineral resource.

The KVS can be best categorized as an Intermediate Sulphidation epithermal deposit. This deposit type includes multi-million ounce gold deposits such as the Comstock Lode (Walker Lane, Nevada), Fruta Del Norte (Suarez pull-apart basin, Ecuador) and the Marmato (Middle Cauca Belt, Columbia Marmato) deposits. The KVS also shares some characteristics of Low Sulphidation epithermal deposits (presence of abundant arsenopyrite), indicating there is a transitional IS to LS component to mineralization. LS epithermal deposits also include multi-million ounce gold deposits, such as Barrick Gold's Porgera Mine (Papua New Guinea), Rio Tinto's formerly producing Kelian Mine (Indonesia) and Continental Gold's Buritica project (Colombia).

The KVS and known IS deposits feature multiple precious metal-rich structures that are formed on the peripheries of porphyry systems. These deposits typically have high silver:gold ratios. Structural controls, along with a significant heat source to generate and transport mineralizing

hydrothermal fluids are key factors in facilitating precious metal deposition over large vertical extents, up to one kilometre. Base metals are also common in this type of deposit.

All of the veins comprising the current mineral resource and unquantified mineralized zones elsewhere in the KVS are open for expansion along strike and to depth. The mineralized system is known to have a vertical extent of at least 520 m down-dip, and high-grade precious and base metal intercepts at depth indicate the mineralized system continues to depth. There is excellent potential to significantly increase the current mineral resource through continued low-cost drilling. In addition, many geochemical and geophysical anomalies outside of those associated with the known mineralized structures have yet to be explored.

Ongoing exploration at the KVS has largely been directed by results of airborne and ground-based geophysical surveys. Magnetic lows and VLF-EM conductors are strongly associated with known vein zones and associated porphyry dykes, while chargeability highs and resistivity lows have effectively outlined the western edge of the Kelly Porphyry. These surveys have also identified numerous untested linear magnetic lows within and adjacent to the KVS, which parallel the orientation of known structural zones.

Similar magnetic low signatures are found outside of the KVS, at the Val and Rusk targets. Exploration drilling in 2020 at the Rusk target successfully identified a correlation between these magnetic lows and mineralized structures, as seen at the KVS. Both the Val and Rusk targets also have coincident arsenic- and gold-in-soil values, and warrant additional exploration.

Geophysical surveys have also been successful in outlining cross-faults, which offset mineralization. The sense of movement along these faults is poorly understood, and analysis of the geophysical data has led to a number of hypotheses in regards to displacement of the mineralized zones. Determining the exact orientations and probable offsets of these cross-faults should be a priority for future work programs.

In 2020, diamond drilling was focused on assessing regional targets outside of the KVS, expanding the Pearl Zone to the east and confirming the continuation of the Central Klaza Zone at depth. Exploration drilling successfully identified previously undiscovered, high grade vein zones at the Rusk and Etzel targets, including a low grade, bulk tonnage target at the Etzel. Drilling at the Pearl Zone expanded distal epithermal mineralization to a strike length of over 1,000 m and continued to outline a highly prospective area of gold-silver mineralization. A single drill hole in the Central Klaza Zone intersected a mineralized zone 125 m deeper than the resource outline at 450 m vertical depth. This drill intercept is significant because it confirms the expansion potential below the Klaza deposit mineral resources.

Further work on the property is unquestionably warranted, and should follow the following recommendations:

1) Infill drilling data from the 2019 drill program at the Eastern Zones should be assessed and, pending positive outlook, integrated into the resource calculation at the KVS.

2) Continued drilling and metallurgical work should be completed on the east side of the mineral resource area (Eastern Klaza Zone) in order to integrate this mineralization into mineral resource estimates, mine plans and process flow sheets. Taking into account the results from the previous PEA, additional work should also be conducted to assess mineralization around the envisioned open-pits.

3) Additional drilling outside of the currently defined resource should consider the following proposed targets:

    a. Extending the bounds of the current mineral resource to greater depths. These holes should include the Western BRX and Western Klaza zones due to the tenor of mineralization in the deepest holes being well above the average deposit grades, and no indications that mineralization is waning at depth.

    b. Northwesterly extensions of the Western BRX and Western Klaza zones. A series of widely spaced holes that attempted to trace the Western BRX Zone to the northwest across a major cross-fault intersected vein zones, but it is unclear whether these zones are part of the BRX structure. More drilling warranted to the northwest of the cross-fault to assess potential for extension along strike of the BRX, Klaza and other mineralized zones.

    c. Additional drilling should be conducted to further evaluate the Pearl Zone, which returned economic gold and silver grades over widths comparable to veins already identified in the KVS.

    d. Further drilling should take place to follow up on the new vein field identified at the Rusk target in 2020. Focus should be on outlining a near surface gold and silver resource that adds to the overall project economics.

    e. Exploration drilling should be conducted on the Victoria target, pending the completion of geological mapping in the area.

4) Geological mapping, prospecting and soil geochemical surveys should be conducted outside of the known veins at the KVS in order to generate new drilling targets. Particular emphasis should be given to the Sked, Val, Dade and Queen claim areas, where historical prospective exploration work has never been systematically followed up. First-pass contour soil sampling across untested areas in the southern half of the property would be an effective method for generating new grassroots targets.

5) An induced polarization survey across the Kelly Zone and a helicopter-borne magnetic and radiometric survey in the area of the Desk/Sked claims should be completed.

Additional work should be carried out to further the understanding of the KVS. In August 2017, Well-Shen Lee began data and sample collection for a Masters project through Laurentian University. This study included detailed geochronology, petrographic and fluid inclusion work, and re-logging older core to reflect current conventions. In 2019, a Ph.D. program designed to

research the potential for economic porphyry mineralization on the property, the overall paragenesis of the KVS and age dating of the mineralizing intrusions was initiated. Future studies should include an in-depth analysis of metal and associated element ratios within the mineralized zones in order to establish vertical and lateral vectoring tools for continued deposit expansion and discovery of new mineralization elsewhere on the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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APPENDIX I

STATEMENTS OF QUALIFICATIONS

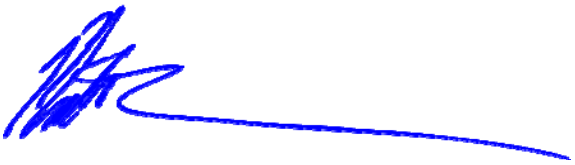
STATEMENT OF QUALIFICATIONS

I, Matthew Turner, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2002 with a B.Sc. majoring in Earth and Ocean Sciences.

2. From 2002 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia, Yukon Territory and Northwest Territories

3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Matthew Turner, B.Sc.

APPENDIX II

STATEMENT OF EXPENDITURES

Klaza - Group 1
Statement of Expenditures 2020

Diamond Drill Expenditures

Kluane Drilling Ltd.	
Invoices 10285 and 10298	$ 404,528.87

Elizabeth Smith
November 17, 2020

Klaza - Group 2
Statement of Expenditures 2020

Diamond Drill Expenditures

Kluane Drilling Ltd.	
Invoice 10256 and four holes from 10262	$ 257,678.17

Fuel Expenditures

Pacesetter Petroleum Ltd.	
Invoice 10555, 10755 (50%)	$ 36,380.93

Core Boxes Expenditures

Career Industries	
Invoice 5352 and 5351	$ 8,943.40

Total Expenditures	$ 303,002.50

Elizabeth Smith
November 17, 2020

APPENDIX III

SAMPLE HANDLING AND ANALYTICAL PROCEDURES

SAMPLING METHODS AND APPROACH

Soil Sampling

Historical samples were taken on baseline-controlled grids established using a hip-chain and compass. Baselines were marked with one metre high wooden lath and sample sites were marked with 0.5 m wooden lath. Most of these stakes are no longer standing.

Soil samples collected in 1986 and 1998 were taken from a 1,400 by 2,500 m northwest trending grid that covers most of the southeastern part of the property. Soil samples were collected at 50 m intervals on lines spaced 100 m apart using two northwest trending base lines for grid control. The base lines are approximately 800 m apart and marked at 50 m intervals with one metre high wooden lath, while the sample sites on cross lines were marked with 0.5 m lath. All lath bear aluminum tags inscribed with the grid coordinates and sample numbers. The grids were established with hip-chain and compass, but later survey control was provided by hard-chain and transit. The soil samples were taken 20 to 50 cm below surface from B horizon material. They were placed in pre-numbered heavy gauge paper bags. A total of 1,405 soil samples were collected in 1986 and 776 in 1998.

Soil samples collected from 2010 to2020 were taken using soil augers, between 30 cm and 130 cm below surface. Soil samples were collected at 50 m intervals along lines spaced between 100 to 200 m apart. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were placed into individually pre-numbered Kraft paper bags. All soil sample locations were recorded using hand-held GPS units. Sampling was often hindered by permafrost on moss-covered, north-facing slopes. Samples were not collected from locations with poor sample quality.

Rock Sampling

Rock samples were collected from areas across the property as float samples and where possible, bedrock samples. Rock samples were collected from old workings, trenches that did not reach bedrock, and prospective areas of the property. After collection, samples were bagged in 6 mm clear plastic bags along with pre-numbered sample tags. The samples were then placed in white fiberglass bags and sealed, after the addition of one standard and one blank, with a metal clasp with sample numbers were written on the outside of that bag with permanent felt pen. Security tags placed on the fiberglass bags ensured chain of custody was followed during transport.

Trenching

Excavator trenching on the property was performed using a Hitachi 450 excavator, leased by Rockhaven from 15317 Yukon Ltd. of Whitehorse and operated by Archer Cathro personnel.

Chip and/or channel samples have been collected from bulldozer and excavator trenches in several parts of the Property during programs conducted between 1986 and 1989 and from 2010 to 2017. Bedrock exposed in trenches is typically sampled on a continuous basis. The collection protocol for these samples was as follows:

1) Trenches were excavated.
2) The walls of trenches were cleaned, where necessary, with a shovel.
3) Trenches were mapped and sample intervals marked at geological breaks or at 1 to 10 m intervals depending on the intensity of alteration and mineralization.
4) Continuous chip samples were collected along one wall of the trench as close to the floor of the trench as slumping would allow using a geological hammer. The chips were collected either in a tub or on a sample sheet. Sample sizes averaged approximately two kilograms per linear metre sampled for intervals containing veins and about 7 kg per sample for intervals comprised primarily of altered wallrock.
5) Samples were placed in doubled 6 mm plastic bags along with a pre-numbered sample tag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen.
6) From 2011 to 2017, one blank and one standard samples were randomly inserted into every batch. No quality control samples were inserted into batches in 2010.
7) In 2013, samples collected from trenches within the core of the BRX and Klaza Zones were divided into batches comprising 31 trench samples plus one blank sample, one assay standard and one coarse reject duplicate sample.
8) In the event that bedrock could not be reached and chip samples could not be collected, representative float samples were collected from vein material. These float samples follow the same procedures as standard chip sampling.

DIAMOND DRILLING

Geotechnical and geological logging was performed on all drill core. A geotechnical log was filled out prior to geological logging of drill core and included the conversion of drill marker blocks from imperial to metric plus determinations of rock quality designations (RQD), hardness and weathering. Wetted core photographs were taken and catalogued prior to logging. Magnetic susceptibility measurements were taken at one metre intervals along core from each hole.

Geological logging involved designating general and detailed intervals, based on lithologic breaks or significant chemical differences. Sample intervals were created after geological logging, for specific sampling between lithologic boundaries and mineralized zones.

In the early programs, logging data was recorded as a hardcopy during the day and transcribed to digital format during the evenings. Beginning in 2015, logging data entered directly into the company database.

Core recovery is generally good, averaging between 94% and 97%, excluding near surface portions where core recovery is often poor. The holes from the 2010-2014 programs were mostly sampled top to bottom (about 99% of core was sampled). Only vein zones and associated peripheral alteration were sampled after 2014. Care was taken during all drill programs to ensure that the sample split was not biased to sulphide content and, therefore, the sampling should be reliable and representative of the mineralization.

Drill core samples were collected using the following procedures:

1) Core was reassembled, lightly washed and measured.
2) Core was wet photographed.
3) Core was geotechnically logged.
4) Core was tested for magnetic susceptibility.
5) Core was geologically logged and sample intervals were designated. Sample intervals were set at geological boundaries, drill blocks or sharp changes in sulphide content.
6) Core recovery was calculated for each sample interval.
7) Initially, visually promising core intervals were sawn in half using a rock saw and the remainder of the core was split with an impact core splitter. In 2012, all visually promising core intervals were sawn in half using a rock saw, while selected specimens of altered country rock were split using an impact core splitter. Starting in 2014, all marked samples were cut using a rock saw. In each case, one half of the core sampled and the remaining half was placed back in the core box.
8) All samples were double bagged in 6 mm plastic bags, a pre-numbered sample tag was placed in each sample bag, then two or three samples were placed in a fiberglass bag sealed with a metal clasp and sample numbers were written on the outside of that bag with permanent felt pen. The fibreglass bag was sealed with a numbered security tag.
9) Samples were grouped into batches for shipping and quality control purposes. Batches made up to and including 2017 comprised 30 or 31 core samples. Batches made starting in 2019 contained 35 core samples.
10) Two blank and two assay standard samples were randomly included in every batch until 2019. Starting in 2020, one blank and two assay standard samples were randomly included in each batch.
9) One field duplicate and one coarse reject sample were included in every batch, starting in 2012.

Density measurements were systematically taken on core, throughout all of the drill programs, with a total of 2,482 density measurements from a variety of holes and lithologies. Measurements are mostly from vein, porphyry dyke, fresh granodiorite and mineralized granodiorite but also include aplite and mafic dyke material. Sample densities were determined by cutting a 10 cm long section of core and then determining its weight dry and its weight in water. That data was applied to the following formula to establish the density of each of these samples:

Density = weight in air ÷ [Pi x (diameter of core ÷ 2)2 x length of core]

For samples that could not be cut, a graduated cylinder (filled with water) was used to calculate the volume of the core sample and in turn the sample's density. Employing this technique, each sample was first weighed in air, and then its displacement was calculated using a volumetric cylinder. A second formula was then used to determine the density of each sample:

Density = weight in air ÷ (Final Volume – Initial Volume)

In addition to density, the specific gravity was calculated using the following formula for each sample wherever possible. As a cross check, density and specific gravity values were compared. Any significant discrepancies were investigated and corrected.

Specific Gravity = weight in air ÷ (weight in air – weight in water)

ORIENTED CORE SURVEYS

A Reflex ACT III downhole digital core orientation system was used in 2014 and 2015 to orient the core in a total of 46 holes.

In 2015, 18 of the 19 oriented holes were drilled using split tubes. The use of split tubes allowed orientation measurements to be collected across incompetent intervals or intervals with poor recovery.

Split tube intervals were oriented by Archer Cathro employees at the drill site. The core tube was first aligned by the driller's helper using the ACT III tool before the split tube was extracted from the core tube. Care was taken to not shift the core during this process. A line representing the top of the hole was marked down the length of the core by the Archer Cathro employees. Structural orientation measurements within the interval were taken prior to the core being transferred to core boxes.

HISTORICAL SAMPLE PREPARATION, ANALYSIS AND SECURITY

This section describes the sample handling procedures followed during the 1986 to 1989 and 2010 to 2012 exploration programs managed by Archer Cathro and the 1998 program conducted by BYG. The procedures followed during earlier exploration programs are not known.
During the 1986 to 1989 programs all samples were transported from the Property to Whitehorse by truck, escorted by a member of the geological crew, and then shipped via Canadian Airlines or a commercial trucking company to Chemex Labs (now ALS Minerals) in North Vancouver, B.C. Soil geochemical samples were dry sieved through a -35 mesh screen and ring pulverized to approximately -100 mesh before being analyzed for gold by neutron activation and inductively coupled plasma (ICP) analyses. Channel samples were fire assayed for gold and silver. The 1988 drill core samples were also fire assayed for gold and silver.

Drill core samples collected in 1998 were shipped directly from the site by company vehicle to the laboratory operated by Little Salmon Analytical in Carmacks. That laboratory was primarily established to process samples from the former Mount Nansen mine. The samples were assayed for gold and silver. The analyses were by the one ton fire assay method.

Samples collected in 2006 were submitted to ALS Chemex in North Vancouver, B.C. Analyses were done using industry-standard fire assay and ICP techniques. The ALS Chemex (now ALS Minerals) laboratory in North Vancouver carries ISO 9001:2000 registration and is accredited to ISO 17025 by Standards Council of Canada for a number of specific test procedures including fire assay Au by AA, ICP and gravimetric finish, and multi-element ICP and AA assays for Ag, Cu, Pb and Zn.

SAMPLE SECURITY

In 2010, all drill core was trucked to the Archer Cathro yard in Whitehorse for logging and splitting. From 2011 forward, drill core was logged and sawn or split at a processing facility on the Property. Chip samples taken between 2010 and 2017 were collected and labelled at the trenches on the Property.

Archer Cathro personnel were responsible for transporting all samples from Archer Cathro's Whitehorse yard to ALS Minerals' Whitehorse preparation facility. Archer Cathro personnel were responsible for transporting all samples from the Property by truck to ALS Minerals' facility in Whitehorse for preparation. ALS Minerals was responsible for shipping the prepared sample splits from Whitehorse to its North Vancouver laboratory, where they were analyzed. All samples were controlled by employees of Archer Cathro until they were delivered directly to ALS Minerals in Whitehorse.

Archer Cathro ensured that a Chain of Custody form accompanied all batches of drill core during transportation from the Property to the preparation facility. A unique security tag was attached to each individual fibreglass bag when the bag was sealed. The bags and security tags had to be intact in order to be delivered to ALS Minerals. If a security tag arrived at the laboratory damaged, an investigation into the sample bag was undertaken by ALS Minerals and Archer Cathro and any affected samples were not processed until a resolution had been reached on the security of the samples.

SAMPLE PREPARATION AND ANALYSIS

All samples were sent to ALS Minerals' laboratory in Whitehorse for preparation and then on to its laboratory in North Vancouver for analysis. ALS Minerals, a wholly owned subsidiary of ALS Limited, is an independent commercial laboratory specializing in analytical geochemistry services. Both ALS Minerals' Whitehorse and North Vancouver laboratories are individually certified to standards within ISO 9001:2008.

All 2010 to 2012 soil samples were dried and screened to -180 microns. All 2010 to 2020 rock, core and trench samples were dried, fine crushed to better than 70% passing -2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. In 2014 and 2020, visually mineralized intervals and adjoining samples were prepared using a technique designed for coarse gold and silver. The sample is dried and crushed to better than 90% passing 2 mm. A 1,000 g split is then taken and pulverized to better than 95% passing 106 microns.

In 2010 and 2011, all core and trench samples were initially analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 35 other elements by inductively coupled plasma-atomic emission spectroscopy (ME-ICP41). Overlimit values for gold were determined by fire assay and gravimetric finish (Au-GRA22) and silver values were determined using Ag-OG46. Sample pulps from mineralized intervals of drill core from 2011 were later reanalyzed for lead and zinc as well as 46 other elements using four acid digestion followed by inductively coupled plasma-atomic emission spectrometry (ME-MS61). Overlimit values for silver, lead and

zinc were determined by inductively coupled plasma-atomic emission spectroscopy (Ag/Pb/Zn-OG62).

Rock samples were routinely analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 48 other elements by four acid digestion (ME-MS61). All overlimit values were determined for gold by fire assay and gravimetric finish (Au-GRA22) and similarly for silver using Ag-OG62.

Soil samples collected in 2010 were analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21) and for 35 other elements using aqua regia digestion and inductively coupled plasma-atomic emission spectrometry. Soil samples collected in later years, were analysed for gold by fire assay fusion and atomic absorption spectroscopy (Au-AA24) and for 35 other elements using aqua regia digestion and inductively coupled plasma-atomic emission spectrometry.

All assay standard, blank and duplicate samples passed QA/QC reviews.

DATA VERIFICATION

Database

Prior to 2014, geological and geotechnical logging was initially recorded as a hardcopy and then transcribed into MS Excel®. In 2014, logging was recorded as hardcopy and then entered into a MS-SQL Server® database (the Database). From 2015 onwards, drill logs were entered directly into the Database. All of the pre-2014 data has been transferred to the Database.

Algorithms within the database automatically check all data as it is entered to ensure accuracy and consistency. These checks include interval checks that alert the user if overlapping or missing intervals are detected. Alerts are also generated if a downhole depth has been entered that is greater than the final hole depth. Drop down menus and internal libraries ensure consistency between users by requiring the use of pre-approved lithological units, minerals and other logging codes.

Visual comparison of hardcopy data and digital data were conducted on select holes to ensure accuracy. Any discrepancies identified by this process were investigated, by examining the core stored on the Property, and corrected.

Collar Location

All drill hole collars were re-surveyed in 2012 using a Trimble RTK GPS system and, where necessary, survey data collected in previous years was corrected. The differences between this most recent survey and the earlier surveys can be explained by the poorer accuracy of the hand held GPS devices used in previous years.

Elevation data obtained during the RTK GPS survey was compared to elevation data calculated from low level orthophotos. Any discrepancies identified were investigated and corrected, if possible. If no resolution to a discrepancy was immediately apparent, an additional survey was conducted.

Down-hole Orientation

Prior to 2011, no down-hole azimuth measurements were made and dip deviations were measured using an acid test at the bottom of each hole. This practice does not follow industry standards, but due to the limited number of holes (11), shallow depths (up to 273.12 m) and good ground conditions, this is not considered to be a significant issue.

Starting in 2011, multi-shot down-hole surveys were completed on all holes. Original survey data was obtained from the survey tools in CSV format and was visually inspected. Erroneous data was not used during the interpretation process.

Assays

Digital assay certificates, for all of the drilling completed between 2010 and 2020, were obtained from ALS Minerals in CSV format and imported directly into the Database.

Internal algorithms built into the Database ensure that the correct assay data is matched with the correct sampling data. Errors detected by the Database were inspected and corrected. Spot checking of data within the Database to hard copy certificates issued by ALS Minerals was also implemented and did not revealed any issues.

Samples from the 2010 to 2020 diamond drilling programs were subjected to a quality assurance and quality control ("QA/QC") program designed by Archer Cathro for Rockhaven. The QA/QC program consisted of:

1) Sequentially pre-numbered sample tags: to identify each sample with a unique number to minimize the possibility of sample numbering errors and to ensure uniform collection of sample data.
2) Sealed, doubled sample bags: to secure individual sample bags in order to reduce the possibility of sample contamination, spilling or tampering.
3) Chain of custody: samples were stored in a secure preparation area and delivered to the laboratory directly by Archer Cathro personnel. A chain of custody form, signed by each person who transported the samples, was attached to each sample shipment. These forms have been retained in case any discrepancy is ever identified.
4) Sample duplicates: select samples were quartered and re-submitted for assay. In addition, duplicates of coarse reject material of select 2012 samples were re-submitted for assay.
5) Sample blanks: commercial samples were purchased and inserted in the sample sequence. to test for "smear effect" during the sample preparation process. These blanks were assigned unique sample numbers within the sample sequence and were randomly inserted into each batch, so as to be "blind" to the laboratory.

6) Reference standard samples: commercially available assay standard samples for gold and silver were purchased for the 2010 and 2011 drill program. Six project specific assay standards were prepared from coarse reject material from the 2011 and 2012 core samples for use during the 2012 through 2019 programs. For the 2020 drill program, 4 project specific assay standards were prepared from coarse reject material from the 2017 drill program. These assay standards were prepared, homogenized and packaged by CDN Resource Laboratories Ltd. of Delta, British Columbia. All assay standards were certified by Smee & Associates Consulting Ltd. of North Vancouver, British Columbia assay standards were assigned a unique sample number within the sample sequence and were randomly inserted into each batch.
7) Sample weight: Once split and bagged, individual samples are weighed. This weight is compared to the received weight recorded by ALS to monitor for possible sample switches or other issues arising during transport or preparation. Any significant discrepancies between these weights are investigated and necessary corrections made.
8) Referee samples: In October 2015, 140 core samples analyzed in 2015 by ALS Minerals were randomly selected for check analysis. These samples represent approximately 3% of the samples analyzed in 2015. Pulp rejects from these samples were submitted to SGS Minerals Services ("SGS") in Burnaby BC to be analyzed for gold by fire assay followed by atomic absorption (GE FAA313) and 33 elements by four acid digestion followed by inductively coupled plasma-atomic emission spectrometry (GE ICP40B). Results from the SGS analysis are consistent with the analysis completed by ALS Minerals.

All of the samples have passed this quality assurance and quality control program.

APPENDIX IV

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-AUG-2020
Account: ROCKHA

CERTIFICATE WH20155364

Project: Klaza

This report is for 25 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22-JUL-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	
As-OG46	Ore Grade As - Aqua Regia	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-AUG-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20155364

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K293901		0.48	0.019	0.17	0.19	40.0	0.02	<10	950	0.11	0.05	0.02	0.05	12.75	1.4	14
K293902		0.99	0.003	0.16	0.16	20.8	<0.02	<10	300	0.20	0.07	1.78	0.23	9.57	1.5	15
K293903		0.28	0.159	0.33	0.08	22.8	0.08	<10	130	0.10	0.85	0.02	0.02	4.57	1.3	12
K293904		1.14	<0.001	0.07	0.51	5.9	<0.02	<10	280	1.12	0.03	3.06	0.42	28.8	11.3	7
K293905		0.29	0.001	<0.01	0.04	8.5	<0.02	<10	20	0.12	0.04	>25.0	0.14	15.10	1.8	1
K293906		0.67	0.002	0.53	0.39	8.4	<0.02	<10	280	0.26	0.62	0.15	0.54	34.5	1.5	3
K293907		1.13	<0.001	0.45	0.29	1.7	<0.02	<10	80	0.09	0.41	0.14	0.06	32.6	3.7	3
K293908		1.54	<0.001	0.06	0.09	1.0	<0.02	<10	1490	<0.05	0.13	0.02	0.03	5.47	0.4	21
K293909		0.99	<0.001	0.08	0.49	4.6	<0.02	<10	340	0.47	0.39	0.48	0.26	41.6	4.2	5
K293910		1.10	<0.001	0.08	0.42	4.1	<0.02	<10	500	0.34	0.16	0.05	0.15	14.30	3.6	9
K293911		0.67	<0.001	0.47	0.41	66.9	<0.02	<10	1380	0.61	0.13	0.35	1.18	27.4	5.1	5
K293912		0.59	1.695	93.5	0.42	926	1.97	<10	730	0.73	0.77	0.11	24.9	37.4	32.1	11
K293913		1.05	0.005	0.31	0.59	27.3	<0.02	<10	2130	0.23	0.07	0.02	0.17	37.0	0.7	4
K293914		0.60	<0.001	0.03	0.14	3.0	<0.02	<10	30	0.11	0.20	0.02	0.01	1.00	0.9	31
K293915		0.93	<0.001	0.02	0.12	3.4	<0.02	<10	50	0.06	0.05	0.08	0.09	3.96	0.9	22
K293916		1.56	0.001	0.15	1.06	38.4	<0.02	<10	300	0.50	0.41	0.14	0.30	32.8	4.5	13
K293917		1.48	<0.001	0.01	0.35	1.4	<0.02	<10	80	0.11	0.03	0.07	0.02	5.72	0.8	8
K293918		1.34	0.054	0.80	0.88	329	0.11	<10	2950	0.73	0.37	0.07	1.11	25.8	0.8	9
K293919		0.97	0.019	72.9	1.25	2220	0.13	<10	180	0.65	9.93	0.07	109.0	35.1	50.1	25
K293920		0.35	0.012	53.8	0.73	867	<0.02	<10	100	0.70	2.57	0.03	35.9	39.1	39.4	23
K293921		1.59	0.051	21.6	0.67	456	<0.02	<10	90	0.62	1.95	0.04	31.5	34.3	23.1	19
K293922		0.52	1.235	>100	0.24	>10000	1.29	<10	60	0.10	1.24	0.04	2.68	6.67	0.4	6
K293923		0.58	0.702	>100	1.18	>10000	0.58	<10	130	1.55	1700	0.04	3.98	161.0	0.6	7
K293924		0.73	0.762	>100	0.26	4090	0.79	<10	110	0.27	37.3	0.06	2.51	9.31	1.6	9
K293925		1.02	0.287	10.75	0.33	1320	0.28	<10	320	0.14	2.56	0.03	0.34	112.0	0.4	7

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Project: Klaza

Finalized Date: 15-AUG-2020
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CERTIFICATE OF ANALYSIS WH20155364

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
K293901		0.90	1.3	0.51	0.53	0.05	0.07	0.05	<0.005	0.09	6.3	1.0	0.01	102	19.10	0.01
K293902		0.90	1.6	0.39	0.53	<0.05	0.08	0.02	<0.005	0.10	4.9	0.8	0.09	496	3.91	0.01
K293903		0.49	3.0	0.97	0.33	<0.05	<0.02	0.11	0.010	0.05	2.4	0.7	0.01	37	4.95	0.01
K293904		3.63	10.7	3.09	1.82	0.06	0.08	0.18	0.015	0.17	16.0	1.9	0.08	1570	0.46	0.01
K293905		0.34	1.5	0.87	0.27	0.07	0.02	0.01	<0.005	0.01	8.6	0.3	0.16	1320	0.12	0.01
K293906		1.27	6.4	1.34	1.14	0.07	0.16	0.14	0.016	0.28	19.0	0.6	0.03	436	4.01	0.01
K293907		0.20	4.5	1.94	0.84	<0.05	0.12	0.02	<0.005	0.20	19.8	0.3	<0.01	34	1.34	0.02
K293908		0.06	1.8	0.35	0.21	<0.05	0.05	0.03	<0.005	0.03	2.8	0.5	<0.01	33	0.56	0.01
K293909		0.68	3.9	1.76	1.23	0.08	0.24	0.03	0.006	0.24	24.1	2.1	0.12	321	1.37	0.02
K293910		0.58	3.6	2.10	1.12	<0.05	0.15	0.09	<0.005	0.25	6.7	1.7	0.03	129	1.36	0.02
K293911		2.28	9.4	2.53	0.87	0.05	0.09	0.08	0.010	0.19	14.1	0.8	0.03	1420	0.59	0.01
K293912		3.81	74.7	5.52	1.71	0.08	0.09	0.94	0.089	0.16	22.8	3.0	0.03	4420	1.77	0.01
K293913		1.10	1.9	0.64	1.21	0.05	0.30	0.08	0.008	0.16	19.9	15.1	0.01	166	1.31	0.01
K293914		0.57	1.8	0.37	0.49	<0.05	0.04	0.01	<0.005	0.07	0.5	1.5	0.01	119	1.51	0.01
K293915		0.32	3.2	0.50	0.74	<0.05	<0.02	0.01	<0.005	0.05	1.9	1.7	0.04	78	0.43	0.01
K293916		2.69	66.8	2.89	6.31	0.09	0.04	0.04	0.045	0.16	16.9	16.3	0.48	275	0.97	0.07
K293917		0.85	3.1	0.49	1.56	<0.05	0.03	<0.01	<0.005	0.11	2.3	5.9	0.13	71	0.30	0.07
K293918		1.83	131.5	3.62	2.76	0.07	0.24	1.24	0.028	0.29	13.6	3.7	0.05	111	8.54	0.02
K293919		2.90	109.0	8.17	4.62	0.10	0.11	0.21	0.606	0.17	19.0	7.6	0.42	17800	3.20	0.01
K293920		1.92	79.6	5.95	2.62	0.08	0.08	0.32	0.126	0.17	20.5	5.4	0.04	10950	2.97	0.01
K293921		2.00	46.6	4.64	2.41	0.09	0.11	0.22	0.095	0.22	16.8	3.7	0.04	9000	2.14	0.01
K293922		1.02	24.7	2.60	1.52	0.09	0.04	0.90	4.66	0.21	4.7	0.8	0.01	130	2.14	0.01
K293923		0.45	152.0	10.25	6.66	0.24	0.15	0.85	6.16	0.28	69.5	0.4	0.01	88	59.8	<0.01
K293924		0.86	169.0	2.48	0.96	<0.05	0.11	0.52	0.349	0.15	4.8	0.6	0.01	399	5.55	<0.01
K293925		1.95	8.3	0.87	1.33	0.08	0.49	0.66	0.024	0.20	66.1	0.5	0.02	68	2.10	<0.01

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Finalized Date: 15-AUG-2020
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CERTIFICATE OF ANALYSIS WH20155364

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
K293901		<0.05	1.3	80	10.1	5.1	<0.001	0.04	1.17	0.5	<0.2	<0.2	13.8	<0.01	0.04	2.7
K293902		<0.05	2.6	40	7.4	7.1	<0.001	0.02	0.44	0.4	0.2	<0.2	31.0	<0.01	0.01	2.5
K293903		<0.05	1.1	40	9.2	2.5	<0.001	0.08	13.15	0.5	0.7	<0.2	3.9	<0.01	0.07	0.3
K293904		<0.05	5.5	740	25.4	9.3	<0.001	0.01	7.28	5.6	0.2	0.2	41.6	<0.01	0.01	2.2
K293905		<0.05	3.8	20	29.6	0.6	<0.001	<0.01	0.49	5.2	0.2	<0.2	1125	<0.01	0.02	0.8
K293906		<0.05	0.8	510	88.8	14.0	0.001	0.13	3.88	0.5	0.3	<0.2	8.6	<0.01	0.06	6.6
K293907		<0.05	2.0	390	4.0	6.0	<0.001	1.39	0.47	0.5	2.4	<0.2	9.1	<0.01	0.30	8.8
K293908		<0.05	0.7	40	2.3	1.1	<0.001	0.06	0.95	0.4	0.2	<0.2	21.7	<0.01	0.02	9.6
K293909		<0.05	2.2	370	13.8	9.3	0.001	0.93	0.29	0.9	0.5	<0.2	19.5	<0.01	0.32	10.5
K293910		<0.05	1.7	280	10.3	9.3	<0.001	0.50	0.34	0.5	0.4	<0.2	28.0	<0.01	0.20	7.0
K293911		<0.05	7.1	200	44.4	9.0	<0.001	0.04	4.19	1.9	0.2	<0.2	14.5	<0.01	0.01	6.3
K293912		<0.05	12.4	330	2400	9.6	<0.001	0.03	85.0	4.5	0.2	0.8	14.5	<0.01	0.13	6.6
K293913		<0.05	0.9	40	18.0	7.7	<0.001	0.06	5.46	0.6	0.6	<0.2	33.3	<0.01	0.01	11.2
K293914		<0.05	1.0	50	3.3	3.1	<0.001	0.01	1.36	0.3	0.2	<0.2	2.9	<0.01	<0.01	0.4
K293915		<0.05	1.9	320	2.1	1.6	<0.001	0.01	0.29	0.5	0.2	<0.2	3.9	<0.01	0.01	0.3
K293916		<0.05	5.1	790	8.1	6.9	<0.001	0.19	2.62	6.1	1.2	0.3	19.9	<0.01	0.07	4.1
K293917		0.60	1.3	120	3.3	3.7	<0.001	0.01	0.07	0.8	<0.2	<0.2	13.0	<0.01	0.01	1.5
K293918		<0.05	1.7	480	11.9	13.3	<0.001	0.07	46.8	1.0	1.9	0.6	13.3	<0.01	0.16	6.2
K293919		<0.05	42.6	590	2350	11.9	<0.001	0.02	92.0	7.2	1.7	0.8	34.4	<0.01	0.05	3.7
K293920		<0.05	26.3	560	1465	11.5	0.001	0.01	54.5	6.4	1.0	0.5	29.0	<0.01	0.01	3.7
K293921		<0.05	17.2	430	1295	14.5	<0.001	0.01	21.2	7.2	0.7	0.5	22.4	<0.01	0.01	4.4
K293922		<0.05	0.5	190	>10000	7.9	0.001	0.51	324	3.8	17.8	4.1	6.7	<0.01	1.28	1.0
K293923		<0.05	1.8	8400	>10000	7.0	0.001	1.38	969	1.8	5.2	71.6	42.1	0.01	0.01	19.1
K293924		<0.05	1.6	320	2820	6.2	0.001	0.25	550	1.5	0.5	1.8	16.3	<0.01	0.35	1.4
K293925		<0.05	0.8	110	212	9.7	<0.001	0.06	19.80	0.6	0.3	0.2	24.5	<0.01	<0.01	7.7

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Finalized Date: 15-AUG-2020
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CERTIFICATE OF ANALYSIS WH20155364

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Pb-OG46	As-OG46
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Pb	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001
K293901		<0.005	0.06	0.71	3	<0.05	1.21	20	3.0			
K293902		<0.005	0.05	0.54	2	<0.05	6.68	11	2.8			
K293903		<0.005	0.17	1.30	5	0.17	1.58	7	<0.5			
K293904		<0.005	0.11	1.34	43	0.18	14.50	115	3.2			
K293905		<0.005	<0.02	0.14	4	<0.05	18.65	8	<0.5			
K293906		<0.005	0.22	1.15	4	<0.05	4.31	172	9.0			
K293907		<0.005	0.05	2.25	2	<0.05	3.63	15	5.0			
K293908		<0.005	0.02	0.90	2	<0.05	2.33	5	2.0			
K293909		<0.005	0.08	1.38	4	<0.05	7.54	31	8.0			
K293910		<0.005	0.07	1.58	3	<0.05	7.87	45	6.8			
K293911		<0.005	0.20	1.86	14	0.17	7.39	77	3.8			
K293912		<0.005	0.77	3.99	29	0.14	8.68	1990	5.5			
K293913		<0.005	0.12	1.70	1	0.05	3.75	55	7.6			
K293914		<0.005	0.02	0.22	3	<0.05	0.61	9	0.9			
K293915		<0.005	<0.02	0.19	4	<0.05	2.57	24	<0.5			
K293916		<0.005	0.07	1.09	30	0.07	10.80	98	1.5			
K293917		0.024	0.02	0.22	8	0.05	1.36	7	1.4			
K293918		<0.005	0.95	3.02	9	0.43	4.03	43	10.2			
K293919		<0.005	1.70	2.33	53	0.14	12.55	3310	4.5			
K293920		<0.005	0.97	2.51	42	0.06	9.40	1520	3.5			
K293921		<0.005	0.69	2.24	40	0.07	8.20	1520	4.8			
K293922		<0.005	0.77	2.03	10	0.11	2.05	179	2.0	499	3.54	1.310
K293923		<0.005	1.83	38.7	13	0.16	21.6	667	3.7	382	7.73	1.815
K293924		<0.005	0.42	2.15	7	0.05	1.55	169	3.8	281		
K293925		<0.005	0.52	1.85	3	0.12	3.42	11	15.3			

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CERTIFICATE OF ANALYSIS WH20155364

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-21	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG46	As-OG46	Au-ICP21	ME-MS41
ME-OG46	Pb-OG46		

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188118

Project: Klaza

P.O. No.: Batch 1

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20188118

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598901		7.26		2.26	7.49	211	1900	1.72	0.13	4.75	1.42	38.7	11.7	12	7.80	27.6
W598902		3.99		0.14	7.93	14.6	1820	1.81	0.13	4.45	0.16	39.0	16.3	13	8.01	26.0
W598903		3.76		0.54	7.59	37.2	1760	1.77	0.19	3.96	1.06	37.8	14.7	12	8.87	26.6
W598904		3.07		0.16	8.03	10.0	1990	1.73	0.12	4.53	0.15	40.0	16.6	17	6.39	35.8
W598905		5.21		0.33	7.39	23.3	1810	1.64	0.12	4.17	0.16	39.4	17.4	14	9.93	29.1
W598906		8.26		1.86	7.05	77.5	1420	1.60	0.42	4.34	1.04	37.5	17.2	28	11.35	50.1
W598907		7.26		0.98	7.52	250	750	2.00	0.14	3.46	1.15	35.4	12.8	12	12.35	27.2
W598908		7.80		0.17	7.60	17.3	1770	1.73	0.15	4.25	0.18	36.5	15.1	14	7.31	21.8
W598909		0.25	1.460	94.1	4.69	4050	290	0.93	57.1	1.52	197.0	30.4	59.7	35	9.57	1260
W598910		6.10		0.34	7.83	12.3	1930	1.75	0.25	4.50	0.40	44.5	17.8	15	6.38	33.5
W598911		3.94		5.44	8.11	2000	1560	1.90	0.10	3.78	17.10	52.3	18.4	12	12.15	38.2
W598912		8.25		0.23	7.79	16.8	1910	1.70	0.11	4.27	0.22	41.9	17.6	14	9.82	48.8
W598913		8.29		0.28	7.89	14.2	1310	1.46	0.06	5.02	0.19	39.8	17.6	17	7.16	47.0
W598914		6.79		0.41	7.93	43.0	1040	1.43	0.05	5.01	0.25	37.4	18.5	13	9.39	23.1
W598915		5.10		0.78	7.65	130.0	840	1.25	0.05	7.06	0.63	37.5	17.9	10	11.30	22.5
W598916		5.45		0.37	8.58	13.4	910	1.48	0.06	2.94	0.43	31.8	18.6	16	11.05	44.5
W598917		5.17		0.01	0.11	0.4	20	0.07	0.01	32.2	<0.02	1.10	0.5	1	0.07	1.3
W598918		5.15		0.27	7.76	8.5	1060	1.23	0.06	5.65	0.19	34.3	18.9	14	10.40	45.0
W598919		7.14		0.94	7.55	534	520	1.46	0.07	4.18	0.74	33.8	15.7	14	11.75	34.1
W598920		5.03		0.57	8.35	27.3	1200	1.29	0.09	4.97	0.26	38.9	19.4	14	11.00	49.8
W598921		3.80		7.38	7.81	65.3	1500	1.35	0.09	3.90	44.6	37.9	15.2	15	5.51	56.0
W598922		<0.02		7.33	7.80	59.4	1490	1.42	0.10	3.89	41.5	39.0	15.2	14	5.56	51.7
W598923		5.99		1.03	7.83	416	1030	1.51	0.06	2.31	1.15	44.3	9.7	15	7.54	15.6
W598924		4.75		2.70	7.62	1260	960	1.51	0.10	3.18	8.16	44.2	15.3	44	8.43	31.2
W598925		4.35		1.27	7.43	548	1030	1.47	0.11	3.45	5.81	40.5	13.4	17	8.92	19.1
W598926		6.43		0.36	7.67	390	1250	1.45	0.10	2.69	0.45	46.5	8.8	13	5.88	11.9
W598927		7.49		0.33	7.98	268	1290	1.27	0.09	2.66	0.40	46.7	7.6	11	4.73	16.6
W598928		8.44		0.26	7.98	109.5	1190	1.38	0.15	2.69	0.62	46.4	9.7	25	5.34	27.8
W598929		7.40		0.21	8.37	48.9	1130	1.25	0.09	3.99	0.22	40.8	16.1	13	5.50	29.0
W598930		5.40		4.08	7.43	212	1200	1.06	0.05	3.90	12.90	54.4	12.7	16	9.68	32.9
W598931		0.26		10.15	6.92	2090	260	1.51	6.05	1.81	36.3	45.8	11.2	30	16.90	201
W598932		7.90		9.74	8.45	25.6	1100	1.51	0.05	2.32	44.1	40.3	17.5	13	10.60	84.9
W598933		8.43		0.89	8.10	19.0	1220	1.35	0.07	4.19	1.17	32.9	17.9	15	9.12	88.8
W598934		3.34		0.82	7.98	16.8	1160	1.21	0.06	4.18	1.37	34.4	17.2	15	8.31	72.6
W598935		8.12		0.95	7.58	22.5	940	1.40	0.05	4.08	2.26	35.1	17.5	12	7.22	31.1
W598936		5.18		2.48	8.82	60.6	900	1.78	0.06	2.97	4.89	38.2	17.0	14	13.10	59.8

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598901		4.39	17.35	0.08	1.2	0.046	2.87	17.5	19.2	1.35	2320	2.35	1.19	6.6	5.9	1340
W598902		4.72	18.60	0.07	1.6	0.055	2.33	17.8	13.2	1.67	1090	2.70	2.31	6.6	6.4	1430
W598903		4.48	18.30	0.09	1.1	0.064	2.62	16.9	12.6	1.47	1220	2.85	1.93	6.7	6.3	1350
W598904		4.77	18.75	0.07	1.1	0.054	2.13	18.4	10.2	1.74	1000	2.50	2.54	6.3	7.2	1470
W598905		4.66	18.20	0.07	1.0	0.055	2.19	17.7	24.5	0.94	1640	2.48	0.71	6.4	6.8	1550
W598906		4.32	17.60	0.06	0.8	0.080	2.59	17.6	20.2	1.49	2330	3.14	1.36	6.2	10.1	1190
W598907		3.96	17.80	0.06	1.2	0.068	2.99	16.0	18.9	1.12	4570	2.67	0.14	6.4	5.9	1320
W598908		4.39	18.10	0.06	1.1	0.058	2.40	16.5	9.8	1.57	1170	2.57	2.13	6.6	6.4	1350
W598909		11.50	11.40	0.07	0.8	4.34	1.95	15.0	30.0	0.52	1880	15.80	0.15	4.1	15.1	380
W598910		4.79	19.05	0.07	1.0	0.064	2.19	20.7	9.2	1.79	1060	2.85	2.44	6.7	7.8	1350
W598911		5.13	18.75	0.07	1.1	0.053	2.80	25.0	16.1	1.43	3540	2.69	1.02	6.2	7.4	1320
W598912		4.72	19.05	0.07	0.9	0.050	2.16	19.4	13.5	1.61	1030	5.87	2.24	6.6	8.0	1330
W598913		4.65	19.05	0.06	1.0	0.055	1.96	18.1	14.7	2.07	1320	3.29	2.03	6.8	8.1	960
W598914		4.48	19.25	0.05	1.0	0.061	2.40	16.5	12.0	1.78	2520	2.01	1.36	6.2	7.4	930
W598915		4.88	17.30	0.05	0.8	0.051	1.65	18.7	12.8	2.04	3420	1.80	1.43	4.9	7.2	910
W598916		5.09	20.2	0.05	0.8	0.073	1.38	13.8	22.9	1.47	1590	2.05	0.54	5.7	7.7	1060
W598917		0.11	0.34	<0.05	0.1	<0.005	0.03	1.2	1.2	1.67	108	0.05	0.04	0.3	0.4	60
W598918		5.15	18.20	<0.05	0.7	0.073	1.40	16.5	15.8	1.90	1440	1.79	1.80	5.0	7.8	940
W598919		4.53	16.95	0.06	0.8	0.050	2.18	15.8	21.9	1.49	4440	2.23	0.10	5.2	6.6	910
W598920		4.81	19.05	0.08	0.9	0.058	2.17	18.1	11.3	1.76	2140	1.98	1.67	5.5	7.7	980
W598921		4.55	18.50	0.06	1.4	0.062	2.08	17.5	13.5	1.76	1450	2.53	2.05	6.6	7.1	1020
W598922		4.49	18.50	0.06	1.4	0.056	2.08	17.3	13.5	1.77	1450	2.47	2.03	6.4	6.9	1000
W598923		3.60	17.00	0.10	0.8	0.051	3.47	21.1	17.2	1.10	1500	2.01	0.77	8.0	6.3	610
W598924		3.89	17.45	0.10	0.8	0.080	2.80	22.5	19.8	1.19	1700	8.18	0.98	8.2	11.2	650
W598925		3.71	16.55	0.10	0.7	0.062	2.97	20.2	16.1	1.06	1620	2.44	0.71	8.1	7.4	500
W598926		3.08	16.50	0.10	0.8	0.047	2.76	22.8	15.1	0.70	956	1.57	1.14	9.4	3.7	560
W598927		2.82	15.05	0.11	0.7	0.042	3.04	24.3	12.3	0.66	649	1.34	1.66	7.9	2.4	570
W598928		2.88	16.60	0.09	0.8	0.044	2.72	24.0	15.1	0.73	673	1.09	2.04	8.0	3.4	600
W598929		4.28	18.90	0.12	0.7	0.058	1.90	20.7	14.6	1.51	1060	1.66	2.33	7.0	5.8	880
W598930		4.05	18.10	0.12	0.7	0.081	2.85	27.0	18.2	1.50	3130	2.19	0.16	7.4	7.0	870
W598931		6.20	15.25	0.11	1.0	0.662	2.94	24.7	43.6	0.77	2100	8.90	0.07	6.4	17.5	540
W598932		5.92	19.90	0.11	0.7	0.232	2.09	19.5	30.1	1.33	3410	2.54	0.39	6.9	7.7	980
W598933		4.96	20.1	0.10	0.7	0.072	1.91	15.0	20.0	1.83	1660	2.28	1.78	6.0	7.6	1010
W598934		4.80	19.30	0.11	0.7	0.061	1.86	16.4	19.3	1.78	1740	2.29	1.75	5.8	7.4	970
W598935		4.74	19.70	0.10	0.8	0.056	1.84	15.9	24.1	1.53	2630	2.32	1.20	6.1	7.2	920
W598936		5.42	20.8	0.10	0.8	0.062	1.67	18.1	40.1	1.51	2420	2.53	0.48	6.0	7.3	1050

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598901		259	89.2	0.002	0.15	10.35	14.1	<1	1.7	510	0.47	<0.05	5.11	0.407	2.05	2.1
W598902		17.3	69.7	<0.002	0.12	3.12	15.0	<1	1.4	735	0.45	<0.05	5.27	0.412	0.95	2.0
W598903		79.9	84.3	<0.002	0.53	7.22	14.1	<1	1.2	629	0.47	<0.05	5.11	0.397	1.66	1.8
W598904		16.8	55.2	<0.002	0.04	2.81	16.0	<1	1.2	817	0.43	<0.05	5.02	0.428	0.92	1.7
W598905		17.3	55.2	<0.002	0.14	16.35	17.4	<1	1.3	429	0.42	<0.05	5.05	0.435	1.47	2.1
W598906		152.0	90.4	<0.002	0.67	18.50	15.5	<1	1.5	466	0.42	<0.05	5.05	0.386	2.53	1.6
W598907		36.2	121.5	<0.002	0.57	22.9	14.2	<1	1.5	141.5	0.43	<0.05	5.09	0.405	3.56	2.2
W598908		16.8	69.7	<0.002	0.05	5.54	13.9	<1	1.2	671	0.47	<0.05	5.00	0.404	1.33	1.7
W598909		9150	111.0	<0.002	>10.0	233	6.7	2	10.1	88.2	0.36	2.04	6.66	0.145	1.87	4.5
W598910		39.5	57.3	0.002	0.03	2.54	17.2	<1	1.3	876	0.46	<0.05	5.79	0.436	0.96	2.2
W598911		917	117.5	<0.002	0.95	26.6	17.6	<1	2.5	498	0.40	<0.05	6.73	0.418	2.87	2.8
W598912		21.6	53.3	0.003	0.04	4.25	16.3	1	1.3	823	0.45	<0.05	5.83	0.430	0.83	2.4
W598913		14.0	66.3	0.002	0.09	4.04	17.4	<1	1.1	626	0.50	<0.05	5.73	0.443	1.15	1.8
W598914		13.5	86.4	0.002	0.33	8.83	18.7	1	1.2	471	0.41	<0.05	4.37	0.476	2.19	1.7
W598915		39.5	80.8	<0.002	0.79	11.75	17.8	<1	1.2	577	0.32	<0.05	4.02	0.434	1.47	1.7
W598916		24.8	32.5	<0.002	0.05	11.40	20.9	<1	2.1	298	0.36	<0.05	4.01	0.511	0.94	1.6
W598917		0.6	0.9	<0.002	0.01	0.08	0.2	1	<0.2	83.1	0.05	<0.05	0.11	0.005	0.02	0.2
W598918		13.8	41.0	<0.002	0.02	5.99	18.3	<1	1.2	691	0.32	<0.05	3.15	0.466	0.81	1.4
W598919		31.2	94.2	<0.002	1.20	23.0	15.6	<1	1.2	150.5	0.35	<0.05	3.99	0.427	2.50	2.3
W598920		14.5	84.7	<0.002	0.25	8.12	19.3	1	1.4	630	0.37	<0.05	4.17	0.482	1.86	1.7
W598921		1955	62.4	<0.002	0.49	7.03	14.2	<1	1.2	607	0.44	<0.05	5.07	0.397	0.92	1.7
W598922		1860	63.8	<0.002	0.48	6.79	14.4	<1	1.2	601	0.46	<0.05	5.37	0.394	0.92	1.8
W598923		182.5	153.0	0.002	1.16	9.85	15.4	2	1.2	219	0.52	<0.05	9.13	0.345	2.85	2.9
W598924		433	108.0	0.005	1.33	22.2	16.7	2	1.8	312	0.59	<0.05	10.45	0.338	3.02	3.9
W598925		174.5	118.5	0.002	1.15	12.80	14.5	2	1.2	299	0.56	<0.05	9.59	0.310	3.34	3.0
W598926		47.6	114.5	<0.002	1.01	8.57	12.3	1	1.4	272	0.58	<0.05	10.80	0.298	2.14	3.1
W598927		47.1	123.5	0.003	0.90	5.83	9.3	2	1.3	313	0.53	<0.05	9.93	0.259	1.64	2.5
W598928		29.0	116.5	0.002	0.88	3.31	10.5	2	1.3	330	0.54	<0.05	10.35	0.264	1.20	2.6
W598929		14.7	70.4	<0.002	0.36	2.86	16.1	1	1.2	589	0.43	<0.05	6.70	0.413	0.74	1.9
W598930		716	120.5	<0.002	0.82	19.15	13.9	1	2.4	283	0.45	0.10	8.03	0.375	2.58	2.1
W598931		1840	170.0	0.002	3.53	49.8	9.1	1	6.1	84.0	0.48	0.23	10.60	0.212	2.67	4.2
W598932		2340	71.5	<0.002	0.37	44.9	20.0	1	2.1	271	0.41	<0.05	5.64	0.465	1.52	1.7
W598933		75.9	49.6	<0.002	0.06	22.0	18.7	<1	1.4	637	0.36	<0.05	3.96	0.484	1.02	1.5
W598934		72.4	52.1	<0.002	0.06	17.90	18.7	1	1.4	622	0.33	<0.05	3.89	0.455	0.96	1.4
W598935		138.0	55.7	<0.002	0.19	19.05	18.7	1	1.5	437	0.38	<0.05	4.93	0.449	1.51	1.8
W598936		321	56.0	0.004	0.26	29.1	21.4	1	1.5	334	0.36	<0.05	5.05	0.504	1.34	1.6

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 14-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188118

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598901		139	1.9	15.7	256	28.2	0.045
W598902		148	0.9	17.7	93	42.1	<0.005
W598903		139	1.5	16.6	122	28.1	0.035
W598904		153	1.0	17.8	94	25.2	<0.005
W598905		168	7.2	16.8	88	21.4	0.007
W598906		146	3.4	14.7	142	14.4	0.037
W598907		143	6.2	14.7	296	28.8	0.041
W598908		141	1.5	15.7	100	26.8	<0.005
W598909		50	4.8	9.2	>10000	21.6	2.77
W598910		166	0.9	19.1	106	24.3	0.009
W598911		161	2.8	19.5	1190	26.2	0.122
W598912		167	1.5	17.7	95	20.4	0.006
W598913		164	0.9	17.1	104	22.1	0.007
W598914		173	1.1	17.3	112	19.1	0.013
W598915		162	2.1	17.1	143	16.2	0.047
W598916		200	8.1	16.9	109	14.3	0.006
W598917		2	<0.1	2.2	4	1.9	<0.005
W598918		180	1.3	19.9	95	11.8	0.005
W598919		157	9.6	14.5	145	14.2	0.152
W598920		180	1.7	17.1	97	16.7	0.007
W598921		137	1.3	16.3	2830	34.3	0.106
W598922		136	1.4	16.9	2690	35.5	0.055
W598923		122	1.8	16.9	127	25.9	0.006
W598924		129	1.9	18.6	636	29.4	0.013
W598925		119	2.0	17.3	674	25.5	0.010
W598926		100	1.6	17.3	76	28.4	0.007
W598927		70	1.4	14.0	81	26.7	0.008
W598928		84	1.2	15.2	107	29.1	<0.005
W598929		145	1.1	16.0	84	21.9	<0.005
W598930		122	3.0	18.2	1050	18.7	0.048
W598931		67	6.0	12.0	3010	31.4	0.593
W598932		171	8.8	16.8	3210	18.4	0.014
W598933		184	2.0	17.1	192	17.7	0.007
W598934		177	2.0	17.3	193	15.5	0.005
W598935		166	5.7	17.1	254	17.8	0.009
W598936		194	10.0	17.9	420	18.0	0.011

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 14-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188118

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188125

Project: Klaza

P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-QC	Pulverizing QC Test
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
Pb-VOL70	Pb by Titration	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188125

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	Pb-VOL70	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Pb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
W594151		6.13					2.03	7.92	102.5	1010	1.83	0.14	4.17	1.04	47.9	15.4
W594152		2.48					14.50	6.02	1310	340	1.23	0.33	3.66	51.4	31.7	11.0
W594153		3.31					4.02	1.31	1715	120	0.64	0.77	14.60	4.99	9.47	1.9
W594154		4.44					11.85	3.76	1020	80	0.99	2.76	3.16	55.8	36.0	3.5
W594155		5.62					0.77	7.58	119.0	1210	1.63	0.16	4.37	0.62	38.0	14.4
W594156		3.66					3.83	7.75	421	440	1.57	0.09	4.73	15.35	48.5	16.1
W594157		2.90			1.030		19.45	5.35	>10000	320	1.13	0.11	7.50	149.0	34.0	11.5
W594158		2.43					0.31	8.11	52.9	1040	1.49	0.08	3.31	0.97	49.2	17.1
W594159		0.26			1.525		93.2	4.68	4200	830	1.06	54.3	1.55	200	30.5	60.7
W594160		6.20					0.18	8.30	21.5	1170	1.21	0.07	4.99	0.35	37.2	21.1
W594161		3.03		1.150			53.4	6.66	3800	490	1.63	0.12	5.19	140.5	32.6	17.1
W594162		6.86					7.37	8.15	566	690	1.75	0.05	2.97	25.6	39.9	22.4
W594163		4.27		1.335	2.44		51.3	7.77	922	350	1.35	0.16	3.03	348	35.4	15.8
W594164		1.86		1.205	2.34		53.3	7.41	1020	490	1.40	0.14	3.23	335	35.3	16.2
W594165		3.14					7.06	7.03	1835	690	1.54	0.10	3.15	17.55	37.6	11.6
W594166		2.26					20.3	6.79	334	710	1.17	0.08	4.31	90.5	56.0	13.9
W594167		2.89		1.230			34.9	4.77	486	270	1.19	0.09	7.29	124.5	23.8	13.0
W594168		3.76					1.55	7.86	137.0	630	1.72	0.04	4.05	3.08	39.7	19.8
W594169		3.21	104	1.175			>100	6.76	241	360	1.40	0.12	6.87	113.5	30.8	12.1
W594170		3.51					24.7	6.25	7580	410	1.30	0.06	5.67	40.1	32.4	10.6
W594171		2.47					17.95	7.04	188.5	950	1.40	0.07	3.69	60.3	34.8	14.4
W594172		3.48					4.32	7.28	143.5	300	1.16	1.93	4.01	8.37	41.4	12.4
W594173		3.26					2.62	7.74	105.0	700	1.22	0.99	3.54	7.72	40.6	16.4
W594174		2.34		1.465	1.825		56.1	6.31	309	480	1.53	1.14	3.26	232	36.1	10.8
W594175		2.25	121	2.67	4.62		>100	5.32	>10000	180	1.19	0.07	0.94	564	21.9	17.2
W594176		<0.02	122	2.73	4.48		>100	5.45	>10000	270	1.33	0.08	0.95	558	24.6	18.0
W594177		1.75					49.7	8.01	508	650	1.50	0.05	1.41	104.0	38.4	18.0
W594178		1.51					22.4	4.53	332	340	1.34	0.17	4.72	61.9	26.8	12.0
W594179		0.25					10.50	6.71	1870	920	1.43	5.20	1.68	34.7	44.4	11.3
W594180		1.96			1.970		4.27	5.77	848	390	1.12	12.30	3.84	228	32.7	12.6
W594181		2.24					4.91	7.43	209	340	1.62	8.24	3.19	34.3	39.5	22.4
W594182		3.22					13.70	8.12	336	900	1.53	0.07	1.87	18.10	38.2	23.3
W594183		1.94	122	1.990	3.06		>100	3.81	6800	270	0.71	0.09	3.09	360	17.50	4.6
W594184		2.15	1310	>20.0	9.96	26.42	>100	0.33	>10000	20	0.08	0.26	0.94	>1000	3.38	1.7
W594185		5.25					0.78	0.16	8.0	20	0.10	0.02	30.5	0.93	0.98	0.6
W594186		3.45					22.8	7.75	2460	530	0.98	0.04	1.90	31.5	38.3	15.8

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W594151		19	19.90	51.4	3.95	19.00	0.13	0.7	0.080	3.34	25.1	36.3	1.44	4470	2.96	0.24
W594152		11	14.15	50.6	6.92	13.60	0.08	0.5	0.054	2.54	16.6	15.5	1.61	10800	5.10	0.03
W594153		6	2.01	17.8	5.27	3.01	<0.05	0.2	0.103	0.47	5.1	21.3	4.79	23700	1.55	0.01
W594154		11	3.27	84.0	9.55	8.79	0.08	0.4	0.703	1.45	18.6	47.6	1.03	23900	0.96	0.03
W594155		15	12.50	22.4	4.35	17.80	0.09	0.9	0.054	2.90	18.5	20.1	1.35	5110	2.44	0.92
W594156		13	13.20	35.1	4.08	17.30	0.11	0.8	0.053	1.66	25.1	46.4	1.50	5640	4.54	0.04
W594157		8	11.55	92.7	6.43	12.10	0.09	0.5	0.150	1.65	17.7	27.8	2.66	8080	7.85	0.02
W594158		14	4.71	28.7	4.12	18.80	0.10	1.0	0.048	0.99	24.0	51.2	0.88	2100	2.26	0.08
W594159		37	8.74	1265	11.70	11.55	0.10	0.7	4.43	1.97	15.9	30.9	0.53	1900	16.70	0.15
W594160		17	8.23	32.5	5.46	20.6	0.10	0.8	0.056	1.60	17.6	16.0	2.01	1140	1.74	2.33
W594161		12	11.55	253	5.69	15.80	0.08	0.6	0.086	2.46	16.6	27.7	1.95	5360	1.97	0.21
W594162		16	7.23	42.1	5.49	18.60	0.10	0.6	0.064	2.37	19.7	32.0	1.39	5790	2.10	0.06
W594163		10	6.93	327	5.92	16.75	0.10	0.5	0.315	3.04	17.9	17.2	1.62	4570	1.87	0.14
W594164		12	7.16	323	5.74	17.65	0.10	0.6	0.287	3.05	17.2	18.8	1.59	4840	2.11	0.11
W594165		16	8.77	20.8	4.05	14.45	0.11	0.7	0.071	2.84	18.7	19.1	1.15	3270	3.50	0.06
W594166		19	7.72	80.8	5.50	17.20	0.11	0.7	0.268	2.57	28.4	25.2	1.39	5110	2.60	0.04
W594167		8	7.82	87.7	6.48	11.15	0.07	0.4	1.185	1.57	12.4	29.3	2.67	8590	2.68	0.04
W594168		14	10.20	41.9	4.12	18.75	0.10	0.6	0.053	2.40	19.6	41.2	1.42	4550	1.56	0.04
W594169		11	13.15	436	4.46	15.80	0.10	0.6	0.291	2.13	15.3	90.6	2.01	5150	1.14	0.17
W594170		20	13.50	35.8	5.42	14.10	0.10	0.5	0.243	2.53	16.8	52.6	1.50	6720	1.48	0.21
W594171		24	23.4	499	3.71	16.90	0.10	0.5	0.063	2.60	16.3	130.0	0.97	2530	2.26	0.40
W594172		24	8.54	30.4	6.69	17.50	0.10	0.6	0.493	3.27	20.5	15.7	1.47	3120	3.18	0.13
W594173		21	8.36	41.9	5.34	16.85	0.07	0.4	0.197	3.08	18.3	28.8	1.29	4320	2.88	0.04
W594174		17	4.16	273	7.44	14.95	0.07	0.6	0.338	1.75	18.0	28.4	1.38	7640	1.71	0.03
W594175		20	4.95	253	14.00	12.65	0.06	0.5	1.130	1.58	8.6	18.1	1.17	4150	1.82	0.05
W594176		20	5.26	241	13.70	13.50	0.07	0.6	1.180	1.59	10.2	19.8	1.19	4120	1.94	0.05
W594177		22	7.45	80.3	7.74	18.50	0.08	0.7	0.364	2.54	16.8	24.8	1.56	3020	2.38	0.10
W594178		15	5.45	40.2	6.53	10.20	0.07	0.4	0.147	1.50	12.2	33.5	1.35	6360	1.71	0.04
W594179		36	15.20	190.0	6.00	14.05	0.08	1.0	0.668	2.88	24.4	43.3	0.72	1940	8.66	0.07
W594180		17	11.55	134.0	7.50	15.80	0.09	0.5	8.00	2.41	14.7	46.4	1.55	1940	5.86	0.04
W594181		20	11.80	297	6.98	17.80	0.10	0.7	2.30	2.92	16.5	19.0	1.35	1210	2.98	1.16
W594182		31	12.00	33.8	4.90	19.60	0.10	0.7	0.071	2.91	16.4	23.4	1.03	4040	2.58	0.09
W594183		17	5.83	76.4	9.35	10.20	0.08	0.3	0.149	1.64	9.0	15.1	1.55	4520	1.77	0.03
W594184		8	0.58	378	21.2	1.28	0.07	<0.1	0.336	0.13	1.8	1.3	0.38	2730	0.88	<0.01
W594185		2	<0.05	2.0	0.16	0.50	<0.05	0.1	<0.005	0.05	1.1	1.2	1.45	95	0.07	0.08
W594186		27	6.92	15.0	6.08	17.40	0.07	0.7	0.032	3.79	16.7	7.7	1.05	4280	2.25	0.04

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W594151		6.9	7.1	1290	122.5	179.0	<0.002	0.40	28.5	18.7	1	1.8	180.0	0.40	<0.05	6.20
W594152		4.8	6.3	840	3070	139.5	<0.002	1.04	76.7	10.3	1	1.1	100.5	0.28	<0.05	4.62
W594153		0.9	1.1	100	258	24.5	<0.002	1.48	36.9	2.4	1	0.5	247	0.06	<0.05	0.80
W594154		2.3	3.6	490	591	70.7	<0.002	7.71	94.6	7.2	1	1.1	69.1	0.15	<0.05	2.59
W594155		6.5	6.0	1280	23.1	124.5	<0.002	0.54	14.20	15.2	1	1.4	375	0.38	<0.05	5.28
W594156		6.7	7.6	1270	768	79.7	<0.002	0.76	37.3	17.6	1	1.3	177.0	0.37	<0.05	6.68
W594157		4.4	6.3	810	4470	85.4	<0.002	3.93	93.5	11.8	1	2.6	155.0	0.26	0.08	4.43
W594158		7.0	7.9	1320	47.1	21.7	<0.002	0.20	36.5	17.8	<1	1.3	210	0.41	<0.05	6.86
W594159		4.3	15.3	390	9250	116.5	0.002	>10.0	230	6.7	2	11.0	95.4	0.31	1.96	6.50
W594160		5.7	8.8	1000	18.5	52.3	<0.002	0.03	3.73	21.3	1	1.3	761	0.31	<0.05	4.05
W594161		4.6	6.0	760	>10000	137.5	<0.002	3.22	61.3	16.2	1	2.0	201	0.27	<0.05	3.76
W594162		5.6	9.1	920	1440	122.0	<0.002	0.82	34.3	20.4	1	2.3	114.5	0.30	<0.05	4.06
W594163		5.8	5.4	750	>10000	155.0	0.003	4.31	57.1	16.6	2	2.4	130.5	0.35	<0.05	5.02
W594164		6.1	6.1	750	>10000	141.0	0.002	4.00	60.9	17.9	2	2.5	134.0	0.37	0.05	5.02
W594165		6.8	7.1	480	1505	140.0	<0.002	2.18	24.2	14.9	1	2.5	145.0	0.43	<0.05	7.41
W594166		7.7	7.4	800	5410	129.5	<0.002	2.66	43.6	12.0	1	2.9	164.5	0.46	0.05	8.24
W594167		2.8	5.8	530	>10000	76.4	<0.002	3.93	44.3	11.5	1	1.5	167.5	0.17	0.06	2.43
W594168		5.8	7.9	900	205	126.0	<0.002	0.91	36.3	19.1	<1	1.3	157.5	0.32	<0.05	4.20
W594169		4.6	6.2	670	>10000	133.0	<0.002	2.58	79.0	15.0	1	3.5	249	0.26	0.28	3.57
W594170		5.1	5.1	750	2820	139.5	<0.002	3.32	810	13.3	<1	2.8	231	0.30	<0.05	4.45
W594171		6.4	6.1	830	4500	129.0	<0.002	1.26	60.3	15.2	1	1.3	237	0.39	<0.05	6.37
W594172		6.2	6.0	800	130.5	186.0	<0.002	3.85	13.35	15.6	1	3.5	174.5	0.39	0.14	6.36
W594173		5.8	7.7	850	340	153.0	<0.002	2.17	23.2	13.5	<1	2.2	108.5	0.33	0.10	5.77
W594174		4.7	5.9	670	>10000	91.2	<0.002	3.75	64.5	12.0	<1	3.3	101.0	0.29	0.19	6.05
W594175		3.3	7.0	720	>10000	59.3	<0.002	>10.0	89.5	11.2	1	5.4	62.7	0.22	<0.05	2.93
W594176		3.5	7.3	720	>10000	70.4	<0.002	>10.0	95.0	11.8	<1	6.0	67.2	0.23	<0.05	3.22
W594177		5.5	8.0	1050	8710	118.5	<0.002	4.13	40.4	17.0	<1	8.4	119.5	0.30	<0.05	4.66
W594178		3.2	5.4	510	3250	76.2	<0.002	4.36	56.8	8.5	<1	1.4	111.0	0.18	<0.05	2.95
W594179		6.1	23.3	500	1725	158.0	<0.002	3.39	46.4	8.3	<1	6.3	76.3	0.50	0.23	10.55
W594180		4.3	5.5	650	245	113.0	<0.002	6.16	41.6	11.2	1	4.4	106.5	0.27	0.45	4.05
W594181		6.4	6.0	900	86.8	146.0	<0.002	3.74	24.7	15.6	<1	5.9	313	0.37	0.11	5.23
W594182		6.2	12.8	830	1660	131.5	<0.002	2.27	34.0	16.8	<1	2.0	120.5	0.38	<0.05	5.39
W594183		2.4	4.8	360	>10000	89.4	<0.002	8.94	123.5	7.7	<1	2.8	85.1	0.16	0.05	2.63
W594184		0.2	0.9	20	>10000	6.2	<0.002	>10.0	1180	0.7	<1	2.0	17.0	<0.05	0.44	0.21
W594185		0.2	0.8	60	145.5	1.6	<0.002	0.01	0.85	0.2	<1	<0.2	76.6	<0.05	<0.05	0.14
W594186		6.1	9.7	760	3420	205	<0.002	5.16	41.9	15.5	1	4.4	55.7	0.36	<0.05	5.25

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188125

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
W594151		0.416	4.33	2.3	152	4.1	18.0	156	14.9	0.017	
W594152		0.282	4.45	3.1	99	10.3	10.5	3280	12.9	0.235	
W594153		0.056	0.74	0.9	25	2.1	8.6	362	5.1	0.607	
W594154		0.143	1.67	1.0	75	3.7	8.2	3290	11.7	0.355	
W594155		0.386	3.05	1.9	139	3.1	16.7	230	29.2	0.013	
W594156		0.405	3.87	5.1	152	12.2	18.6	1180	24.6	0.017	
W594157		0.258	2.98	4.3	112	6.6	14.8	>10000	14.1	1.050	1.640
W594158		0.421	0.62	3.1	163	33.6	20.5	139	28.1	0.005	
W594159		0.141	1.79	4.2	50	4.4	9.6	>10000	24.1	3.08	
W594160		0.488	0.82	1.4	189	1.0	17.8	119	20.7	<0.005	
W594161		0.368	3.25	2.0	146	4.4	15.7	9740	14.3	0.233	
W594162		0.445	2.91	2.8	174	7.5	17.5	1920	14.4	0.031	
W594163		0.394	3.28	1.8	149	4.0	15.1	>10000	14.2	0.151	
W594164		0.402	3.30	1.8	151	4.3	15.9	>10000	16.4	0.318	
W594165		0.298	2.77	3.3	113	5.2	15.1	1350	32.8	0.132	
W594166		0.306	3.07	2.6	101	3.7	17.4	6040	19.2	0.149	
W594167		0.251	2.29	2.0	106	4.1	14.9	9040	9.4	0.479	
W594168		0.432	3.16	2.2	161	8.2	19.3	307	20.5	0.022	
W594169		0.363	2.23	1.5	145	4.7	13.9	8230	11.7	1.255	
W594170		0.330	2.57	1.6	117	4.1	14.4	3560	12.1	2.94	
W594171		0.388	2.73	2.2	138	3.6	15.2	5350	10.6	0.059	
W594172		0.344	3.17	2.3	130	3.5	14.9	710	15.6	0.430	
W594173		0.382	3.05	1.8	138	3.4	13.4	724	9.4	0.053	
W594174		0.304	1.98	1.9	114	4.6	13.6	>10000	13.0	0.448	
W594175		0.285	1.68	1.5	114	9.6	9.4	>10000	10.1	0.961	1.545
W594176		0.294	1.81	1.5	115	10.0	10.5	>10000	11.1	1.020	1.525
W594177		0.470	2.31	2.9	170	8.6	15.3	6920	14.6	0.476	
W594178		0.234	1.77	1.8	84	4.6	11.2	5130	6.6	0.301	
W594179		0.204	2.49	3.9	62	5.8	10.8	2730	25.4	0.649	
W594180		0.298	4.20	1.9	104	7.6	12.3	>10000	9.4	0.344	
W594181		0.438	4.29	2.0	152	8.9	17.9	2600	14.5	0.332	
W594182		0.434	3.77	1.8	143	13.1	15.4	1300	13.7	0.079	
W594183		0.175	2.32	0.8	67	7.0	7.2	>10000	6.7	1.075	
W594184		0.013	0.48	0.1	9	0.8	1.7	>10000	<0.5	3.35	1.175
W594185		0.006	0.03	0.2	1	<0.1	2.1	82	1.9	<0.005	
W594186		0.418	5.66	1.5	139	8.9	12.0	2140	12.6	0.397	

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188125

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Pb-OG62	Pb-VOL70	Zn-OG62

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Finalized Date: 15-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188131

Project: Klaza

P.O. No.: Batch 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 15-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188131

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598937		5.34		0.19	8.82	13.8	950	1.33	0.04	2.25	0.28	35.4	16.5	15	5.44	18.4
W598938		6.30		0.49	8.01	9.9	980	1.08	0.15	4.46	0.17	32.8	17.2	13	5.02	44.9
W598939		6.51		0.30	7.60	7.3	1270	0.99	0.09	4.37	0.34	29.8	18.2	13	5.33	27.4
W598940		5.15		0.34	8.13	14.2	1190	1.04	0.11	4.36	0.28	32.8	17.2	13	4.46	22.7
W598941		0.25		10.35	6.50	1810	810	1.24	5.24	1.62	33.4	42.9	11.0	26	14.85	186.5
W598942		3.43		0.85	7.91	16.9	1190	1.13	0.11	4.63	0.32	30.6	19.0	13	4.56	66.3
W598943		4.36		0.63	7.93	16.2	1230	1.00	0.32	4.55	0.21	33.0	18.7	13	5.63	24.5
W598944		6.12		1.07	7.91	118.5	650	1.56	0.16	4.72	1.22	36.1	17.2	12	11.10	23.4
W598945		4.45		2.07	8.42	88.8	1310	1.19	0.07	4.20	1.45	42.7	15.7	21	11.80	95.4
W598946		8.06		0.36	7.72	16.4	1360	1.17	0.06	4.07	0.22	35.6	16.5	21	7.09	26.3
W598947		8.38		0.32	8.46	17.4	1560	1.29	0.09	4.21	0.27	43.2	18.2	23	8.48	28.4
W598948		6.16		0.45	8.09	17.1	1420	1.32	0.07	4.21	0.22	37.2	17.2	22	8.30	21.6
W598949		2.66		0.42	8.08	16.2	1370	1.18	0.07	4.26	0.20	36.0	16.1	21	7.49	24.4
W598950		2.96		1.46	7.65	105.0	1150	1.43	0.11	2.95	1.02	32.9	18.7	24	11.20	18.0
W598951		5.79		4.22	7.61	483	310	1.66	0.08	3.71	6.79	40.1	17.5	18	17.00	13.6
W598952		4.92		0.43	7.87	29.8	1290	1.46	0.07	4.06	0.14	38.1	16.3	21	9.69	15.7
W598953		4.80		0.80	7.83	27.6	1410	1.21	0.08	3.98	0.12	38.4	17.5	19	10.40	25.5
W598954		7.90		0.69	7.99	840	1410	1.21	0.08	4.09	0.24	41.3	15.3	22	11.40	25.4
W598955		0.26	1.495	89.2	4.53	3650	1850	0.88	45.4	1.43	182.0	28.9	59.3	33	8.76	1215
W598956		8.36		2.38	8.13	1350	1310	1.15	0.14	4.26	1.66	43.1	16.3	22	9.14	34.5
W598957		5.53		0.29	8.15	17.7	1280	1.08	0.10	4.43	0.24	42.6	15.6	23	8.61	34.4
W598958		4.90		0.17	8.17	9.6	1460	1.13	0.09	3.97	0.23	39.6	15.8	26	7.49	27.0
W598959		4.61		0.38	8.13	10.6	1440	1.38	0.16	4.65	0.21	37.9	17.1	28	7.14	43.6
W598960		3.56		0.73	7.76	28.1	1460	1.31	0.08	4.58	0.10	41.0	16.2	21	22.5	23.0
W598961		5.01		0.17	7.93	7.6	1380	1.31	0.07	4.47	0.14	40.5	13.8	22	8.10	21.5
W598962		5.11		0.02	0.09	<0.2	20	0.08	0.01	33.9	0.02	1.00	0.5	2	0.05	1.8
W598963		2.10		1.54	7.65	33.3	1140	1.25	0.10	5.21	2.61	43.7	13.3	19	9.67	32.4
W598964		3.96		0.30	7.69	14.3	1210	1.27	0.08	3.43	0.12	35.1	14.0	21	8.61	23.8
W598965		5.18		0.81	8.30	15.7	1400	1.25	0.09	3.70	0.23	40.6	15.4	20	11.30	72.2
W598966		5.22		0.49	7.94	17.6	1460	1.31	0.10	4.19	0.16	41.9	14.0	21	7.75	36.2
W598967		3.44		7.10	7.46	151.0	890	1.34	0.11	3.72	30.4	39.3	14.2	19	9.56	37.1
W598968		3.88		9.09	7.61	1090	1310	1.32	0.22	3.33	18.15	38.4	16.6	20	9.98	32.1
W598969		<0.02		8.16	7.62	1050	1280	1.44	0.22	3.37	17.40	37.8	15.5	19	9.67	30.2
W598970		2.97		2.05	7.70	87.4	1500	1.45	0.07	3.12	4.38	34.3	15.7	20	12.60	14.8
W598971		4.74		5.35	7.68	98.6	1100	1.48	0.10	3.31	5.79	36.9	15.2	21	8.10	21.5
W598972		5.11		3.24	7.91	228	1180	1.48	0.65	4.99	6.96	43.8	12.8	19	8.03	25.6

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CERTIFICATE OF ANALYSIS WH20188131

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598937		4.86	20.3	0.06	0.8	0.047	1.13	14.3	27.5	1.05	1020	1.92	0.61	6.1	8.3	1010
W598938		4.80	18.90	0.08	0.7	0.082	1.22	14.0	13.7	1.98	1160	1.84	2.28	5.4	7.8	920
W598939		4.76	18.65	0.09	0.7	0.063	1.50	12.1	9.4	1.91	1160	2.05	2.48	5.7	7.7	890
W598940		4.86	18.60	0.07	0.6	0.055	1.52	13.7	13.6	2.11	1270	1.88	2.53	5.5	7.7	910
W598941		5.80	14.45	0.09	0.9	0.633	2.81	23.0	36.4	0.69	1850	8.23	0.07	5.9	17.0	470
W598942		4.92	19.45	0.08	0.8	0.056	1.54	12.7	12.9	1.99	1240	2.34	2.57	5.7	8.2	920
W598943		4.83	19.75	0.10	0.7	0.053	1.43	13.5	10.9	1.98	1340	1.88	2.42	5.8	7.9	910
W598944		4.63	18.50	0.09	0.7	0.057	2.27	15.5	26.0	1.36	4250	1.98	0.07	5.4	7.4	850
W598945		4.17	19.50	0.11	0.8	0.066	2.02	19.6	20.8	1.24	1720	2.56	1.06	6.8	7.6	950
W598946		4.68	19.75	0.10	0.7	0.062	1.81	14.3	13.7	1.80	1160	3.15	2.57	6.8	8.4	930
W598947		4.87	21.8	0.10	0.7	0.052	1.81	19.1	16.2	2.06	1240	2.86	2.66	7.5	8.8	970
W598948		4.77	20.2	0.08	0.7	0.047	1.80	15.7	13.4	1.92	1260	2.81	2.60	6.9	8.4	980
W598949		4.77	18.95	0.10	0.6	0.049	1.78	15.3	12.5	1.89	1260	3.04	2.56	6.4	7.8	970
W598950		4.24	21.1	0.08	0.8	0.055	2.52	13.4	32.3	0.84	2640	3.67	0.23	7.2	9.3	990
W598951		4.84	18.65	0.09	0.7	0.048	3.03	17.2	31.6	1.25	3770	2.12	0.06	6.2	6.8	900
W598952		4.90	19.05	0.09	0.7	0.047	2.18	17.1	18.9	1.66	2320	1.73	1.64	6.6	7.5	960
W598953		4.53	18.05	0.09	0.8	0.047	2.28	16.4	14.2	1.51	2310	2.99	2.00	6.8	7.1	890
W598954		4.44	18.20	0.10	0.6	0.052	2.67	17.9	15.2	1.58	1480	2.17	1.81	6.5	7.1	890
W598955		11.25	11.00	0.09	0.7	4.11	1.88	14.1	26.5	0.49	1760	16.95	0.16	4.1	15.3	350
W598956		4.62	18.60	0.10	0.8	0.065	3.03	19.8	13.2	1.76	1760	3.51	1.56	6.6	6.0	840
W598957		4.79	18.00	0.12	0.8	0.055	2.00	17.9	15.8	1.79	1200	4.12	2.21	6.7	6.7	890
W598958		4.76	18.75	0.09	0.6	0.057	2.03	16.7	19.4	2.07	1020	3.10	2.55	6.8	8.1	910
W598959		4.91	19.05	0.11	0.6	0.062	2.00	17.5	18.2	1.91	1100	2.53	2.52	7.1	8.3	990
W598960		4.46	17.70	0.13	0.6	0.057	2.74	18.9	62.8	1.60	1860	1.99	1.17	6.8	6.5	960
W598961		4.67	17.45	0.11	0.7	0.047	2.11	19.0	13.3	1.84	1040	2.39	2.26	6.7	6.1	970
W598962		0.10	0.35	<0.05	<0.1	<0.005	0.02	1.1	1.2	1.50	106	0.06	0.04	0.1	0.5	60
W598963		4.59	17.25	0.11	0.6	0.049	2.07	21.5	15.8	1.52	2480	2.53	1.17	6.4	6.2	920
W598964		4.52	17.75	0.11	0.6	0.053	1.98	16.0	20.8	1.27	1100	2.54	0.94	6.8	6.4	960
W598965		4.97	18.85	0.12	0.6	0.122	2.32	19.0	20.8	1.62	1520	3.03	1.28	6.9	6.2	1020
W598966		4.45	18.55	0.13	0.7	0.062	2.26	19.8	13.3	1.75	1540	3.30	1.95	7.0	6.9	930
W598967		5.05	17.80	0.12	0.5	0.071	3.12	18.5	32.1	1.31	5070	2.59	0.05	6.1	6.3	910
W598968		5.45	17.90	0.15	0.5	0.063	3.51	17.6	29.3	1.45	4780	1.59	0.14	6.3	6.7	990
W598969		5.41	17.05	0.11	0.5	0.061	3.51	17.6	27.9	1.43	4780	1.89	0.14	6.1	6.4	990
W598970		4.33	19.25	0.12	0.8	0.053	3.46	15.1	39.3	0.78	5170	2.01	0.10	6.7	6.0	1010
W598971		5.08	18.25	0.12	0.8	0.057	2.81	16.4	32.8	1.07	6010	2.16	0.22	6.5	6.2	1020
W598972		5.41	18.30	0.11	0.8	0.113	2.71	21.2	22.9	1.75	5310	2.03	0.70	6.6	5.5	1010

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188131

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598937		26.1	22.5	<0.002	0.07	12.60	17.6	<1	1.2	309	0.35	<0.05	4.06	0.526	0.53	1.3
W598938		21.7	34.0	<0.002	0.06	6.05	17.3	<1	1.3	660	0.32	<0.05	3.92	0.458	0.55	1.3
W598939		19.4	33.3	<0.002	0.02	3.33	16.0	<1	1.2	680	0.34	<0.05	3.46	0.450	0.69	1.1
W598940		17.0	41.2	<0.002	0.05	6.78	16.6	<1	1.1	701	0.32	<0.05	3.64	0.467	0.65	1.2
W598941		1650	155.5	<0.002	3.25	44.4	8.0	1	5.9	76.7	0.44	0.15	10.50	0.200	2.56	4.0
W598942		25.0	36.0	<0.002	0.09	8.06	16.8	<1	1.3	712	0.30	<0.05	3.52	0.466	0.68	1.1
W598943		21.6	33.0	<0.002	0.06	11.25	17.3	<1	1.2	702	0.32	<0.05	3.49	0.468	0.68	1.1
W598944		70.2	96.5	<0.002	1.02	34.9	16.8	<1	1.5	190.0	0.31	<0.05	3.98	0.438	2.26	1.3
W598945		92.2	75.3	<0.002	0.48	34.6	15.4	<1	1.3	416	0.42	<0.05	5.14	0.427	1.04	1.6
W598946		20.0	46.4	0.002	0.02	4.36	14.9	<1	1.2	682	0.41	<0.05	4.23	0.435	0.65	1.4
W598947		23.9	58.2	<0.002	0.02	3.98	17.3	<1	1.4	734	0.41	<0.05	5.00	0.456	0.63	1.7
W598948		22.5	52.5	<0.002	0.03	7.05	15.9	<1	1.1	679	0.41	<0.05	4.28	0.435	0.84	1.5
W598949		21.5	49.6	<0.002	0.03	7.04	15.0	<1	1.2	681	0.37	<0.05	4.19	0.436	0.78	1.4
W598950		111.5	85.2	0.002	1.24	32.1	16.3	<1	1.2	212	0.43	<0.05	4.30	0.444	2.84	1.9
W598951		382	148.5	<0.002	3.32	33.2	15.2	1	2.0	147.5	0.37	<0.05	5.16	0.421	4.41	2.0
W598952		16.9	72.3	<0.002	0.26	18.00	15.6	<1	1.1	552	0.44	<0.05	5.67	0.428	1.60	2.1
W598953		13.6	77.8	<0.002	0.37	32.1	14.4	<1	1.0	551	0.46	<0.05	6.23	0.425	1.97	2.3
W598954		20.6	116.0	0.002	0.41	22.1	15.9	<1	1.3	517	0.39	<0.05	6.07	0.428	1.62	2.2
W598955		8650	108.0	<0.002	>10.0	220	6.1	1	10.4	90.0	0.30	2.05	6.24	0.141	1.66	3.9
W598956		50.0	157.5	<0.002	0.73	30.8	18.2	<1	1.4	470	0.38	<0.05	6.24	0.458	1.86	2.1
W598957		22.3	76.1	<0.002	0.10	7.57	16.7	<1	1.1	568	0.42	<0.05	6.57	0.453	0.99	2.2
W598958		22.9	62.3	<0.002	0.02	1.78	15.4	<1	1.1	666	0.40	<0.05	5.75	0.444	0.73	2.0
W598959		17.7	59.9	0.002	0.03	2.11	18.2	1	1.1	650	0.45	<0.05	5.41	0.469	0.69	1.7
W598960		12.3	134.0	<0.002	0.27	11.90	16.6	<1	1.0	454	0.47	<0.05	7.74	0.432	2.30	2.8
W598961		14.5	76.9	0.002	0.02	2.89	17.1	<1	1.0	667	0.45	<0.05	7.25	0.445	1.03	2.3
W598962		1.0	0.6	<0.002	<0.01	0.09	0.2	1	<0.2	84.9	<0.05	<0.05	0.09	0.005	<0.02	0.1
W598963		374	90.5	<0.002	0.27	12.10	16.6	<1	1.0	464	0.42	<0.05	6.94	0.416	1.33	2.3
W598964		15.1	55.0	<0.002	0.09	12.95	15.6	<1	1.2	382	0.45	<0.05	5.41	0.443	1.03	1.6
W598965		15.2	74.8	0.006	0.19	11.50	18.4	1	1.3	489	0.43	<0.05	6.22	0.465	1.18	1.9
W598966		14.9	77.2	0.041	0.11	7.25	16.7	1	1.1	602	0.47	<0.05	7.41	0.432	1.30	2.4
W598967		1780	137.0	0.002	1.46	24.8	16.0	1	2.0	132.0	0.39	0.05	5.72	0.396	3.50	1.9
W598968		1510	137.5	<0.002	1.82	33.0	16.6	<1	2.6	214	0.39	<0.05	5.36	0.437	3.24	1.9
W598969		1490	135.5	0.002	1.84	31.5	16.0	1	2.4	211	0.38	<0.05	4.90	0.432	3.12	1.6
W598970		357	125.0	0.002	0.63	30.5	16.4	<1	1.5	193.0	0.47	<0.05	6.56	0.440	3.31	1.8
W598971		1590	102.0	<0.002	0.93	26.8	17.0	1	1.8	180.5	0.43	<0.05	6.23	0.458	2.81	2.0
W598972		479	103.0	<0.002	1.55	23.2	17.0	1	2.6	363	0.43	<0.05	6.76	0.464	2.42	2.5

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188131

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598937		186	21.0	15.8	95	18.1	0.006
W598938		169	0.8	16.0	84	13.2	0.005
W598939		164	0.6	15.1	95	12.8	<0.005
W598940		168	0.5	16.5	92	11.3	<0.005
W598941		60	5.4	10.5	2640	26.3	0.633
W598942		170	0.8	15.5	94	13.4	<0.005
W598943		169	0.6	16.0	93	13.2	0.005
W598944		158	5.8	16.7	215	12.5	0.045
W598945		144	2.5	19.3	148	15.4	0.041
W598946		147	0.9	16.9	79	15.9	0.005
W598947		155	0.7	20.4	93	14.9	<0.005
W598948		150	0.8	18.0	89	13.8	<0.005
W598949		153	0.8	17.2	86	12.8	<0.005
W598950		158	8.5	15.6	172	14.7	0.021
W598951		145	8.6	16.8	629	16.8	0.264
W598952		148	1.5	18.2	90	13.8	0.011
W598953		145	3.0	17.7	86	15.3	0.014
W598954		149	3.0	18.1	83	12.2	0.386
W598955		45	4.4	8.9	>10000	20.4	3.15
W598956		165	4.5	19.1	163	17.7	0.572
W598957		160	1.1	19.6	103	16.2	<0.005
W598958		153	0.8	18.7	89	13.0	<0.005
W598959		165	0.9	19.4	87	11.7	<0.005
W598960		154	3.2	17.1	104	13.1	0.005
W598961		159	1.4	19.1	88	14.8	<0.005
W598962		1	0.1	2.0	5	1.2	<0.005
W598963		150	3.0	19.2	252	13.7	0.017
W598964		156	4.1	15.9	94	11.9	<0.005
W598965		165	2.9	18.3	108	12.6	0.005
W598966		152	1.9	18.0	96	16.7	0.006
W598967		144	4.9	13.8	2300	9.5	0.059
W598968		155	5.1	15.1	1320	10.6	0.417
W598969		153	5.0	14.3	1340	10.5	0.364
W598970		157	4.5	14.1	426	16.6	0.029
W598971		159	4.6	15.1	556	18.4	0.075
W598972		160	4.3	17.5	639	18.0	0.071

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188131

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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1016 - 510 W HASTINGS STREET
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Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188138

Project: Klaza

P.O. No.: Batch 4

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20188138

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598973		4.87		17.25	7.21	298	740	1.30	0.11	4.35	108.5	40.2	13.3	18	6.64	80.5
W598974		5.11		0.60	7.95	34.9	1310	1.35	0.07	4.89	1.72	42.1	15.6	21	6.93	18.2
W598975		2.26		2.53	8.11	2470	1240	1.19	0.11	4.62	7.36	41.1	19.7	22	6.63	33.9
W598976		4.94		1.29	8.12	38.0	1320	1.38	0.08	5.03	2.79	41.1	18.0	25	6.68	22.4
W598977		5.13		0.25	8.14	19.7	1330	1.32	0.06	5.16	0.21	41.5	17.9	25	3.52	21.4
W598978		5.36		0.18	8.25	14.2	1290	1.10	0.04	5.16	0.13	38.0	17.6	25	3.14	18.3
W598979		5.42		0.29	8.13	21.9	1390	1.32	0.08	5.03	0.24	38.5	18.4	24	2.63	24.5
W598980		5.47		0.39	7.33	30.0	870	2.45	0.15	4.05	0.21	73.2	12.2	106	3.65	30.4
W598981		4.26		0.76	7.38	39.4	710	2.49	0.18	5.06	0.91	74.1	12.7	97	3.81	27.1
W598982		3.86		4.72	8.18	25.0	1460	1.40	0.07	3.91	22.0	39.4	19.0	24	10.25	29.6
W598983		4.74		0.26	7.60	8.1	1260	1.21	0.06	6.74	0.35	42.9	15.4	19	9.54	21.1
W598984		5.04		0.36	8.31	26.4	1220	1.31	0.14	5.97	0.31	46.7	16.3	21	9.60	25.5
W598985		3.16		0.30	8.41	32.3	1180	1.29	0.10	5.28	0.19	44.9	15.4	23	9.79	24.6
W598986		3.15		0.85	7.59	151.0	680	1.54	0.12	6.95	0.43	44.6	16.3	19	12.65	25.5
W598987		1.22		0.78	7.38	125.0	590	1.49	0.13	6.60	0.34	40.0	15.3	20	13.10	19.5
W598988		5.34		0.21	8.24	9.9	1470	1.32	0.05	5.17	0.15	40.8	18.3	23	5.95	18.2
W598989		5.05		0.35	8.28	38.3	1140	1.56	0.14	4.81	0.18	47.4	18.0	23	9.32	19.6
W598990		4.45		1.39	8.39	104.0	1380	1.48	0.20	3.88	2.17	40.2	16.6	22	8.33	20.8
W598991		5.37		0.33	8.15	18.3	1470	1.31	0.15	4.61	0.12	39.1	14.9	22	5.57	24.6
W598992		4.54		0.16	8.06	15.0	1500	1.30	0.07	4.48	0.17	36.7	15.9	21	4.52	20.9
W598993		5.22		0.11	8.30	11.4	1480	1.26	0.13	4.44	0.18	39.3	16.0	23	4.94	18.4
W598994		0.26		10.65	6.85	2000	280	1.47	5.81	1.74	37.0	46.8	11.1	29	17.00	201
W598995		5.16		0.13	7.92	8.6	1380	1.45	0.24	4.25	0.19	39.9	14.7	22	5.31	26.0
W598996		5.08		0.12	8.21	8.8	1440	1.42	0.09	4.38	0.19	42.7	15.0	21	5.52	27.0
W598997		1.69		0.23	8.12	12.3	1400	1.41	0.79	3.91	0.12	39.0	15.3	22	8.10	59.2
W598998		3.84		0.09	7.95	7.4	1420	1.34	0.06	4.78	0.20	40.8	15.2	24	5.68	19.4
W598999		3.06		0.06	7.77	4.2	1320	1.35	0.08	4.30	0.12	37.6	16.1	21	6.35	18.4
W599000		3.19		0.21	7.94	11.3	1180	1.39	0.46	4.35	0.15	42.3	14.0	21	11.10	24.1
W599301		6.41		0.01	0.27	0.5	30	0.13	0.04	31.7	0.02	1.25	0.6	1	0.06	1.2
W599302		4.50		0.22	7.93	6.1	2660	1.39	0.18	3.76	0.87	42.2	13.7	23	8.60	28.5
W599303		0.26	1.515	91.8	4.63	3900	950	1.01	54.1	1.49	196.5	31.9	58.5	36	9.26	1245
W599304		5.48		0.20	7.43	9.0	1380	1.47	0.29	3.65	0.36	35.9	13.4	22	10.25	24.3
W599305		4.78		0.19	7.93	13.9	1390	1.52	0.28	4.36	0.94	44.5	14.1	23	6.47	26.3
W599306		4.94		0.58	7.90	13.1	1390	1.49	0.59	4.03	0.18	41.9	13.8	23	8.17	35.9
W599307		4.74		0.24	8.03	10.5	1510	1.55	0.34	3.52	2.62	41.7	13.8	23	11.80	26.6
W599308		<0.02		0.24	7.82	10.3	1480	1.47	0.35	3.70	3.18	39.2	13.7	23	11.65	24.5

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188138

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598973		6.03	16.60	0.10	0.7	0.282	2.68	19.8	24.1	1.73	6330	3.31	0.03	5.9	5.1	930
W598974		4.85	18.65	0.09	0.8	0.062	2.04	19.5	16.2	1.96	2640	2.42	1.87	6.8	6.4	960
W598975		5.41	17.80	0.13	0.8	0.120	2.47	19.5	14.8	1.76	2890	1.98	1.23	6.3	5.7	1060
W598976		5.23	19.25	0.12	0.8	0.064	1.85	18.6	14.8	1.94	2060	2.50	1.92	6.7	5.9	1120
W598977		5.24	19.10	0.11	0.7	0.061	1.74	19.0	13.6	2.21	1440	2.64	2.39	6.7	6.4	1150
W598978		5.32	18.75	0.10	0.7	0.055	1.57	17.6	13.9	2.27	1160	2.15	2.51	6.1	6.3	1150
W598979		5.35	18.80	0.12	0.7	0.063	1.70	17.1	11.6	2.27	1180	2.42	2.56	6.7	5.9	1190
W598980		3.33	18.40	0.16	5.8	0.062	2.18	36.7	35.4	1.12	1920	4.19	0.07	16.1	46.4	2670
W598981		3.41	17.70	0.14	5.8	0.070	1.76	39.2	39.1	1.36	2030	4.09	0.06	15.8	48.6	2580
W598982		5.57	18.90	0.11	0.7	0.067	2.17	18.2	22.0	1.83	1920	2.39	1.80	6.5	6.1	1180
W598983		4.68	17.05	0.13	0.8	0.051	1.58	20.9	20.1	1.82	2000	2.07	1.59	5.9	5.3	1060
W598984		5.12	18.40	0.12	0.7	0.064	1.69	23.1	16.0	2.03	1670	2.17	1.86	6.3	5.6	1170
W598985		4.92	19.20	0.12	0.7	0.073	2.16	21.8	19.8	1.85	1900	2.89	1.36	6.7	5.2	1170
W598986		4.43	18.05	0.12	0.7	0.077	2.59	20.8	23.3	0.86	2630	2.61	0.26	6.1	4.9	1110
W598987		4.28	17.95	0.12	0.7	0.070	2.74	18.1	22.1	0.84	2520	2.44	0.17	6.0	5.2	1120
W598988		5.43	19.05	0.12	0.8	0.057	1.82	19.3	14.9	2.20	1240	2.38	2.37	6.7	5.9	1200
W598989		4.91	19.00	0.14	0.7	0.084	2.47	22.5	15.9	1.60	2020	2.14	1.33	6.5	5.8	1180
W598990		4.98	19.50	0.13	0.6	0.057	2.47	17.9	25.9	1.60	3180	2.25	1.17	6.9	8.0	1080
W598991		4.79	18.35	0.11	0.7	0.058	1.94	18.5	14.7	1.96	1590	2.38	2.40	6.5	7.0	1010
W598992		4.77	18.60	0.10	0.7	0.054	1.89	16.4	15.4	2.03	1030	2.14	2.66	6.8	7.3	1020
W598993		4.86	18.60	0.11	0.7	0.062	1.84	17.4	14.5	2.10	1060	2.02	2.68	6.7	7.6	1050
W598994		6.04	15.00	0.13	1.0	0.667	2.93	25.7	46.3	0.75	2070	8.37	0.07	6.3	17.4	510
W598995		4.62	17.70	0.11	0.7	0.062	1.69	18.0	13.6	1.96	973	2.24	2.59	6.6	7.7	960
W598996		4.79	18.25	0.11	0.8	0.058	1.93	20.3	13.1	2.03	1000	2.47	2.70	7.0	7.1	990
W598997		5.45	17.10	0.11	0.9	0.075	2.07	18.0	19.0	1.89	929	2.74	2.25	6.9	6.9	980
W598998		4.72	17.80	0.13	0.7	0.055	1.77	19.0	17.4	1.97	924	1.95	2.72	6.8	7.9	1030
W598999		4.63	17.65	0.11	0.7	0.050	1.75	16.4	18.0	2.04	1060	2.00	2.51	6.7	7.0	990
W599000		4.56	17.15	0.12	0.6	0.061	1.71	19.7	17.3	1.63	1120	2.13	2.02	6.6	7.2	980
W599301		0.11	0.80	0.06	0.1	<0.005	0.13	1.2	1.3	1.56	101	0.08	0.13	0.6	0.4	60
W599302		4.31	17.95	0.12	0.6	0.062	2.15	19.7	12.4	1.80	892	2.61	2.61	7.4	7.7	930
W599303		11.35	10.60	0.11	0.7	4.33	1.90	16.4	30.7	0.52	1890	15.55	0.15	4.2	14.8	360
W599304		4.20	17.80	0.11	0.6	0.062	1.91	16.6	15.5	1.53	835	2.55	2.30	7.4	7.5	920
W599305		4.28	18.35	0.13	0.7	0.099	2.00	21.5	17.5	1.78	1100	2.61	2.38	7.6	7.9	940
W599306		4.34	18.25	0.11	0.7	0.074	2.11	20.2	16.6	1.70	982	2.57	2.35	7.7	8.0	930
W599307		4.21	18.15	0.11	0.6	0.123	2.22	19.7	19.5	1.58	856	2.54	2.28	7.8	7.6	940
W599308		4.21	17.60	0.12	0.6	0.131	2.16	18.3	18.9	1.55	887	2.42	2.26	7.4	7.5	950

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188138

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598973		6600	126.5	0.003	2.86	24.3	15.6	<1	3.1	107.0	0.38	<0.05	6.02	0.417	2.98	2.1
W598974		96.9	70.9	0.002	0.26	9.37	17.9	1	1.2	570	0.42	<0.05	6.17	0.469	1.15	1.9
W598975		663	92.5	0.002	1.33	26.3	19.7	1	2.9	460	0.39	<0.05	5.47	0.504	1.77	1.9
W598976		184.5	55.7	<0.002	0.26	14.95	20.9	1	1.3	645	0.40	<0.05	5.07	0.530	1.14	1.6
W598977		22.3	48.4	<0.002	0.12	4.29	19.0	1	1.2	719	0.42	<0.05	5.30	0.517	0.64	1.5
W598978		11.9	40.9	0.002	0.03	2.29	19.1	1	1.0	758	0.38	<0.05	4.85	0.524	0.53	1.5
W598979		21.0	36.0	<0.002	0.08	3.18	19.0	1	1.2	784	0.38	<0.05	4.68	0.541	0.60	1.6
W598980		25.9	64.8	<0.002	0.36	13.90	8.6	1	2.7	281	0.85	<0.05	8.78	0.448	1.16	4.2
W598981		114.5	63.3	0.002	0.48	20.1	8.7	<1	2.7	316	0.86	<0.05	9.65	0.441	0.98	5.2
W598982		1010	70.4	<0.002	0.21	12.80	20.6	<1	1.4	699	0.37	<0.05	5.35	0.531	1.31	1.6
W598983		21.2	58.1	0.003	0.03	5.40	18.6	<1	1.0	833	0.35	<0.05	5.14	0.478	0.69	1.7
W598984		26.7	69.1	0.002	0.23	5.42	20.0	<1	1.4	748	0.39	<0.05	5.98	0.521	0.87	1.9
W598985		21.4	78.7	0.003	0.36	8.14	20.5	1	1.3	558	0.43	<0.05	6.21	0.540	1.47	2.0
W598986		63.9	125.5	0.003	1.58	14.90	19.1	1	1.2	273	0.38	<0.05	5.04	0.503	2.73	1.9
W598987		59.6	129.5	<0.002	1.54	13.15	18.7	1	1.4	242	0.36	<0.05	4.83	0.498	3.06	2.0
W598988		13.2	52.1	0.003	0.07	2.66	20.1	1	1.2	761	0.40	<0.05	5.14	0.536	0.92	1.7
W598989		17.8	114.0	0.002	0.46	7.54	20.8	<1	1.2	500	0.39	<0.05	6.20	0.524	1.88	2.0
W598990		179.0	82.5	0.002	0.53	11.35	17.9	<1	1.3	457	0.45	0.05	5.47	0.476	2.08	2.0
W598991		13.5	57.1	0.002	0.10	5.79	17.2	<1	1.1	664	0.40	<0.05	5.39	0.462	0.76	1.7
W598992		14.8	42.5	<0.002	0.06	1.51	16.4	<1	1.1	756	0.42	<0.05	5.00	0.462	0.55	1.8
W598993		14.9	42.9	0.002	0.08	1.38	16.7	<1	1.1	779	0.43	<0.05	5.34	0.464	0.53	1.8
W598994		1810	174.0	0.002	3.50	49.1	9.2	1	5.9	84.2	0.48	0.26	11.55	0.214	2.73	4.4
W598995		17.3	43.8	<0.002	0.12	1.44	16.5	1	1.2	727	0.46	<0.05	5.39	0.447	0.45	1.8
W598996		14.6	53.3	<0.002	0.02	1.10	17.6	<1	1.5	749	0.46	<0.05	5.86	0.458	0.48	2.0
W598997		14.3	63.6	<0.002	1.64	1.79	17.2	<1	1.6	615	0.44	0.05	5.43	0.462	0.81	1.8
W598998		14.7	45.6	<0.002	0.02	0.97	17.0	1	0.9	751	0.47	<0.05	5.50	0.455	0.47	1.8
W598999		11.6	42.8	<0.002	0.01	0.94	16.1	1	1.5	678	0.43	<0.05	4.71	0.440	0.47	1.6
W599000		17.7	59.2	<0.002	0.37	2.49	16.9	<1	1.3	614	0.40	<0.05	5.65	0.424	0.63	1.7
W599301		0.8	3.6	<0.002	<0.01	0.06	0.2	<1	<0.2	76.6	0.06	<0.05	0.19	0.005	0.04	0.3
W599302		27.5	55.8	0.002	0.10	1.01	14.7	1	1.3	679	0.50	0.05	6.57	0.412	0.61	2.4
W599303		9030	109.0	<0.002	>10.0	234	6.5	2	9.8	92.8	0.32	1.79	6.68	0.143	1.87	4.1
W599304		19.5	52.4	<0.002	0.09	2.17	14.1	<1	1.3	614	0.49	<0.05	5.81	0.400	0.64	2.1
W599305		18.5	68.3	<0.002	0.16	2.09	15.9	<1	1.5	607	0.50	<0.05	7.19	0.418	0.73	2.3
W599306		18.9	69.1	<0.002	0.31	2.06	15.4	<1	1.4	600	0.50	0.17	7.00	0.419	0.91	2.3
W599307		21.4	71.0	<0.002	0.35	2.74	15.4	1	1.7	634	0.54	<0.05	7.08	0.424	0.80	2.3
W599308		20.8	66.6	<0.002	0.36	2.60	14.6	<1	1.4	641	0.52	<0.05	6.38	0.412	0.75	2.1

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CERTIFICATE OF ANALYSIS WH20188138

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598973		143	5.7	13.8	7710	16.0	0.278
W598974		160	1.1	19.1	218	21.0	0.008
W598975		177	3.4	17.9	623	17.7	1.110
W598976		188	1.3	20.5	277	17.1	0.010
W598977		184	0.8	20.0	103	14.3	<0.005
W598978		189	0.8	18.9	94	14.7	<0.005
W598979		191	0.7	19.2	99	14.9	<0.005
W598980		94	13.8	14.0	119	226	<0.005
W598981		97	15.2	15.3	169	228	0.005
W598982		191	1.6	17.4	1460	15.2	0.017
W598983		171	1.4	23.3	99	15.1	0.005
W598984		186	1.6	20.7	106	15.4	0.016
W598985		192	2.5	19.3	115	14.3	0.008
W598986		182	5.6	17.6	122	14.2	0.042
W598987		181	5.6	24.7	107	14.0	0.046
W598988		190	0.8	20.2	97	16.2	0.005
W598989		187	2.7	20.0	109	15.4	0.014
W598990		168	3.1	16.8	292	11.8	0.027
W598991		160	0.8	17.9	83	12.8	<0.005
W598992		158	0.7	18.0	81	13.3	<0.005
W598993		162	0.6	18.4	81	13.4	<0.005
W598994		65	5.8	11.6	2920	28.7	0.610
W598995		153	0.9	19.1	80	13.8	<0.005
W598996		159	0.7	20.6	77	16.2	<0.005
W598997		159	2.9	18.5	73	19.2	0.012
W598998		156	0.7	19.3	74	15.4	<0.005
W598999		150	0.7	18.1	76	12.6	<0.005
W599000		144	1.7	19.2	89	11.7	0.007
W599301		1	0.1	2.8	4	2.4	<0.005
W599302		136	0.8	18.9	116	12.5	0.015
W599303		48	4.5	9.3	>10000	22.7	2.91
W599304		132	1.5	16.4	106	12.0	<0.005
W599305		136	1.0	20.4	150	15.9	0.008
W599306		139	1.1	18.6	96	13.7	0.074
W599307		136	2.8	18.4	261	11.2	0.007
W599308		134	2.7	17.7	300	11.0	0.007

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188138

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
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CERTIFICATE WH20188145

Project: Klaza

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599309		5.20		0.18	8.24	13.6	1450	1.52	0.20	3.79	0.24	43.1	13.6	24	9.51	32.1
W599310		4.46		0.18	8.17	10.5	1270	1.41	0.11	4.37	0.16	37.3	18.2	21	8.22	116.0
W599311		5.30		0.29	8.25	17.6	1210	1.39	0.49	4.60	0.96	37.5	17.9	22	9.56	23.9
W599312		5.51		0.24	8.14	10.1	1300	1.30	0.25	4.86	0.40	35.7	16.6	19	7.68	23.8
W599313		2.92		0.34	8.41	35.6	1310	1.36	0.45	4.79	0.96	40.5	16.4	19	11.15	29.8
W599314		5.80		0.23	8.27	9.3	1420	1.26	0.12	4.57	0.28	37.1	16.4	19	7.19	23.0
W599315		3.70		0.21	8.23	10.5	1360	1.35	0.15	4.67	0.33	40.1	17.2	18	7.27	22.9
W599316		3.41		0.33	7.92	33.5	1200	1.22	0.85	5.30	1.49	37.9	15.7	17	9.94	23.1
W599317		4.53		0.23	8.21	17.2	1220	1.32	0.26	5.19	0.34	39.5	18.0	17	8.61	20.7
W599318		0.70		10.15	6.86	1985	390	1.60	5.90	1.77	38.1	47.3	10.8	30	17.45	200
W599319		4.48		0.21	8.56	16.8	1290	1.41	0.25	4.93	1.10	37.6	16.4	18	7.91	24.5
W599320		5.05		0.38	8.34	43.4	1240	1.42	1.46	4.90	6.41	38.8	16.1	19	9.61	21.9
W599321		4.86		1.19	8.03	143.5	1450	1.53	5.61	3.01	82.4	41.6	13.4	17	9.41	54.4
W599322		2.08		1.07	8.17	133.5	1740	1.49	5.29	2.98	75.2	38.8	14.3	18	8.94	52.7
W599323		2.30		0.73	8.39	93.0	1250	2.66	4.75	2.38	31.4	46.2	12.2	19	15.95	55.0
W599324		3.62		1.60	7.83	154.5	920	1.76	6.31	3.13	48.4	40.0	12.5	20	17.10	66.9
W599325		5.05		0.77	7.06	118.0	580	2.04	6.23	3.17	57.0	47.0	7.9	20	10.40	31.2
W599326		5.10		1.99	7.12	85.6	420	2.01	8.82	3.09	48.8	50.3	9.0	20	9.35	40.8
W599327		5.00		0.01	0.19	0.3	30	0.13	0.08	34.6	0.18	1.41	0.5	1	0.09	1.4
W599328		5.34		2.86	6.98	74.3	520	1.87	9.21	2.92	15.75	52.3	6.7	18	9.84	148.5
W599329		5.59		0.47	7.43	219	1060	1.67	1.41	3.88	1.20	66.6	7.9	25	12.10	27.2
W599330		0.55	1.470	93.7	4.70	3820	740	0.94	54.8	1.51	199.0	31.4	58.8	35	9.30	1265
W599331		4.97		0.91	6.60	44.3	1060	1.68	1.86	3.57	1.33	58.3	7.2	23	10.05	50.2
W599332		4.62		0.53	7.29	48.4	1170	1.47	1.38	3.85	2.14	63.2	8.1	25	12.60	26.8
W599333		4.92		0.98	7.02	201	980	1.87	5.92	2.82	5.96	68.8	6.1	17	12.00	100.5
W599334		4.71		3.36	6.85	101.5	570	1.42	19.70	2.48	52.3	61.8	7.6	14	9.89	129.5
W599335		2.07		0.64	8.01	89.2	1340	1.28	2.43	4.37	17.25	41.2	17.8	22	23.3	35.6
W599336		3.55		0.23	8.04	25.8	1470	1.00	0.86	4.55	8.17	41.4	15.7	22	17.05	40.2
W599337		5.13		0.23	8.14	25.4	1380	1.14	0.79	4.64	2.05	43.3	18.4	21	10.45	23.7
W599338		3.87		0.24	8.14	14.7	1430	1.06	0.47	4.61	2.15	39.8	16.0	21	6.59	24.8
W599339		3.27		0.16	8.07	12.2	1350	1.03	0.39	4.63	1.18	33.3	17.2	22	7.55	17.3
W599340		3.27		5.09	7.83	498	650	1.58	0.39	2.99	2.74	30.2	19.5	21	30.9	44.0
W599341		<0.02		5.22	8.08	477	660	1.71	0.40	3.17	3.01	34.3	20.3	21	32.7	46.3
W599342		6.00		0.58	6.82	100.5	820	1.78	0.11	3.03	0.89	47.3	9.8	34	9.44	19.5
W599343		6.39		0.60	6.90	82.0	1450	1.82	0.12	2.99	0.46	49.0	9.9	34	7.99	18.2
W599344		6.80		0.32	7.13	40.5	1750	1.82	0.15	3.09	0.34	54.2	9.9	33	6.61	14.2

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599309		4.44	18.05	0.11	0.6	0.065	2.03	20.9	17.2	1.82	907	3.38	2.58	7.4	8.0	980
W599310		4.99	18.20	0.11	0.9	0.057	1.66	16.2	17.8	2.15	1020	2.44	2.51	6.6	6.7	1020
W599311		5.15	18.60	0.11	0.9	0.109	1.72	17.1	17.9	2.15	1220	2.28	2.28	6.9	6.2	1050
W599312		4.93	18.45	0.10	0.8	0.096	1.75	16.0	15.1	2.03	1310	2.50	2.38	6.6	5.8	1060
W599313		5.11	18.65	0.11	0.9	0.097	1.88	18.6	20.3	2.08	1540	2.52	2.00	6.7	5.9	1070
W599314		5.12	18.50	0.11	1.0	0.062	1.75	16.4	15.7	2.27	1220	2.35	2.57	6.6	5.7	1090
W599315		4.97	18.55	0.12	0.9	0.061	1.67	18.6	15.6	2.18	1230	2.27	2.44	6.5	6.1	1030
W599316		4.70	17.45	0.10	0.9	0.161	1.55	17.8	21.2	2.05	1490	32.3	2.04	6.2	5.5	990
W599317		5.15	18.40	0.11	0.9	0.076	1.54	18.7	21.2	2.20	1450	2.37	2.14	6.2	5.7	1050
W599318		6.07	14.00	0.12	1.0	0.670	2.95	25.8	45.9	0.76	2090	7.83	0.07	6.1	17.1	530
W599319		5.26	18.15	0.11	1.0	0.076	1.70	18.0	19.1	2.22	1360	2.53	2.45	6.4	5.7	1120
W599320		5.02	18.25	0.13	0.9	0.313	1.79	17.6	23.9	1.96	1400	2.42	1.99	6.5	5.8	1060
W599321		5.71	18.90	0.12	0.7	3.18	3.34	19.3	36.3	1.50	1620	2.11	0.37	6.1	5.4	1050
W599322		5.49	19.15	0.15	0.7	2.96	3.38	17.9	35.9	1.43	1490	2.10	0.31	6.3	5.5	1030
W599323		6.39	19.75	0.11	0.7	1.470	2.58	23.2	44.2	1.57	1200	2.47	0.12	6.4	6.2	1040
W599324		4.97	17.90	0.15	0.7	1.805	3.62	18.0	44.5	1.30	1200	2.66	0.21	6.9	6.3	990
W599325		3.78	17.45	0.13	3.1	2.19	2.89	23.0	139.5	1.07	817	1.98	0.14	9.7	8.7	1210
W599326		4.20	17.75	0.14	2.8	2.17	3.11	24.3	72.5	1.00	913	1.63	0.37	9.6	9.4	1300
W599327		0.09	0.62	0.07	0.1	0.011	0.08	1.3	1.7	1.54	106	0.06	0.08	0.6	0.5	60
W599328		3.71	17.40	0.14	2.8	0.798	3.27	25.3	87.0	1.06	1140	1.96	0.08	10.1	7.8	1210
W599329		3.04	17.25	0.15	3.7	0.185	2.47	33.8	217	1.33	1160	2.54	0.08	11.4	10.3	1570
W599330		11.40	10.55	0.11	0.7	4.38	1.93	16.1	30.8	0.52	1920	15.60	0.15	4.2	15.1	370
W599331		2.79	15.50	0.15	3.3	0.209	2.59	29.9	142.5	1.18	1250	2.54	0.06	10.1	10.2	1310
W599332		2.88	17.70	0.16	3.9	0.292	2.64	33.1	92.2	1.22	1180	2.50	0.06	11.3	9.6	1470
W599333		3.28	17.00	0.18	3.6	0.433	3.03	37.4	107.0	0.97	940	2.83	0.06	10.4	6.7	1070
W599334		3.74	16.95	0.14	3.3	1.800	3.00	33.4	97.2	0.88	783	2.59	0.06	9.4	4.9	940
W599335		5.28	19.30	0.13	0.9	0.615	2.11	19.7	28.5	1.73	1370	2.44	1.27	6.5	5.6	1120
W599336		5.17	19.15	0.11	0.9	0.519	2.07	19.3	16.3	2.01	1440	3.25	1.93	6.5	5.6	1090
W599337		5.13	19.30	0.14	1.0	0.293	1.84	20.8	14.3	2.24	1420	5.23	2.16	7.0	5.9	1110
W599338		5.31	19.20	0.12	1.0	0.239	1.80	17.8	12.0	2.21	1360	3.16	2.41	7.0	5.4	1110
W599339		5.27	19.25	0.12	1.1	0.176	1.74	14.2	11.9	2.25	1280	2.51	2.44	6.9	5.3	1140
W599340		4.50	18.40	0.12	0.9	0.059	2.54	13.0	19.6	0.90	4310	2.56	0.06	6.6	9.9	1120
W599341		4.63	19.55	0.12	1.0	0.062	2.62	14.7	22.8	0.92	4400	2.74	0.06	7.3	10.3	1200
W599342		3.08	18.80	0.13	3.5	0.038	2.17	22.3	22.0	1.11	1460	2.05	1.46	11.2	13.6	1600
W599343		2.89	19.00	0.14	3.4	0.041	2.20	23.4	31.3	1.08	1240	2.01	2.35	11.1	14.5	1530
W599344		2.98	18.70	0.15	3.5	0.041	2.07	26.2	37.1	1.14	932	2.07	2.60	11.2	14.5	1580

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599309		15.4	68.9	<0.002	0.11	1.96	16.0	<1	1.4	662	0.52	<0.05	6.58	0.445	0.70	2.2
W599310		12.6	38.1	<0.002	0.10	1.42	18.6	<1	1.2	705	0.44	<0.05	4.52	0.486	0.70	1.5
W599311		17.1	50.5	<0.002	0.24	2.43	18.5	<1	1.4	675	0.43	<0.05	4.70	0.502	0.93	1.5
W599312		13.8	45.3	<0.002	0.18	2.56	17.9	<1	1.2	670	0.42	<0.05	4.61	0.495	0.99	1.4
W599313		24.2	62.7	<0.002	0.47	6.20	18.7	<1	1.1	634	0.43	<0.05	4.99	0.503	1.16	1.5
W599314		18.1	36.9	<0.002	0.06	2.48	17.8	<1	1.1	771	0.43	<0.05	4.39	0.506	0.81	1.5
W599315		13.3	46.2	<0.002	0.10	2.59	18.3	<1	1.1	730	0.41	<0.05	5.00	0.492	0.87	1.6
W599316		15.8	49.5	0.078	0.46	5.67	17.7	<1	1.6	678	0.40	<0.05	4.68	0.470	1.04	1.6
W599317		13.4	48.1	<0.002	0.40	4.47	18.6	<1	1.1	729	0.39	<0.05	4.48	0.495	1.09	1.6
W599318		1830	164.0	<0.002	3.49	46.3	9.2	1	5.8	81.3	0.50	0.21	11.15	0.215	2.70	4.3
W599319		14.9	51.4	0.002	0.22	4.47	18.8	<1	1.1	732	0.40	<0.05	4.85	0.517	1.20	1.5
W599320		19.1	61.4	0.002	0.73	7.47	18.6	<1	1.5	656	0.41	<0.05	5.09	0.493	1.45	1.6
W599321		44.2	100.0	<0.002	2.19	11.35	18.7	1	4.3	230	0.38	0.12	4.88	0.464	3.21	2.0
W599322		41.1	101.0	0.002	2.09	10.55	19.0	1	4.4	209	0.40	0.06	4.79	0.470	2.96	1.8
W599323		20.5	118.0	<0.002	1.44	15.15	19.4	<1	3.5	189.0	0.41	0.28	6.38	0.459	2.96	2.3
W599324		116.0	110.0	<0.002	2.44	12.65	16.8	<1	6.2	290	0.47	0.18	5.83	0.449	3.48	2.5
W599325		23.9	92.8	<0.002	2.53	4.06	6.3	<1	3.5	182.0	0.66	0.19	6.06	0.335	3.16	3.4
W599326		65.6	125.0	<0.002	3.27	5.01	6.7	1	4.2	271	0.64	0.25	6.55	0.356	3.14	3.2
W599327		0.7	2.6	<0.002	0.01	0.07	0.2	<1	<0.2	87.3	<0.05	<0.05	0.25	0.006	0.05	0.4
W599328		136.0	135.5	<0.002	2.87	17.75	5.7	1	3.2	176.5	0.66	0.32	6.34	0.327	3.53	3.3
W599329		19.1	102.0	<0.002	1.22	12.35	6.7	1	1.5	340	0.73	0.13	7.64	0.378	2.78	3.6
W599330		9150	113.5	<0.002	>10.0	234	6.7	2	9.7	91.9	0.32	1.81	6.85	0.145	1.86	4.3
W599331		70.6	94.1	<0.002	1.40	19.35	5.1	1	1.4	362	0.69	0.37	7.61	0.314	2.39	4.0
W599332		24.7	100.0	<0.002	1.06	11.60	6.1	<1	1.6	352	0.75	0.12	8.41	0.354	2.45	4.6
W599333		18.4	123.5	<0.002	1.85	25.3	4.9	<1	4.1	245	0.69	0.20	9.99	0.286	2.68	4.4
W599334		52.0	128.5	<0.002	2.52	10.65	4.7	1	4.7	184.5	0.64	0.34	9.40	0.256	2.74	3.9
W599335		37.4	96.9	<0.002	1.39	15.90	19.0	<1	3.5	540	0.41	0.05	5.27	0.506	2.86	2.0
W599336		15.1	70.6	0.002	0.90	7.98	17.7	<1	2.5	622	0.39	<0.05	4.63	0.493	2.28	1.5
W599337		13.4	65.7	0.010	0.43	8.37	18.7	<1	1.8	703	0.42	<0.05	5.61	0.511	1.80	1.9
W599338		16.3	48.3	<0.002	0.25	6.23	17.2	1	1.7	772	0.44	<0.05	4.73	0.522	1.43	1.7
W599339		11.7	35.1	<0.002	0.17	4.78	16.3	1	1.5	760	0.42	<0.05	3.95	0.531	1.18	1.5
W599340		103.5	80.3	<0.002	0.08	25.5	16.5	<1	1.2	139.0	0.37	<0.05	3.17	0.479	2.97	2.2
W599341		110.5	86.4	<0.002	0.08	26.9	18.4	1	1.3	145.5	0.44	<0.05	3.63	0.509	3.06	2.4
W599342		39.2	56.5	<0.002	0.13	18.25	6.1	1	1.3	401	0.78	<0.05	5.82	0.391	1.69	2.8
W599343		32.9	64.9	<0.002	0.24	15.75	6.2	<1	1.3	625	0.75	<0.05	6.05	0.372	1.57	3.1
W599344		19.2	63.0	<0.002	0.14	11.10	6.4	1	1.3	673	0.75	<0.05	6.88	0.383	1.60	3.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188145

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599309		145	1.3	19.9	91	10.8	<0.005
W599310		172	0.9	18.5	94	17.7	0.006
W599311		173	1.2	18.6	170	18.0	0.010
W599312		170	1.2	18.6	125	19.7	0.005
W599313		173	2.0	18.8	153	19.7	0.015
W599314		176	0.8	18.8	111	23.7	<0.005
W599315		168	0.8	20.2	106	22.1	<0.005
W599316		163	1.5	19.1	200	21.3	0.014
W599317		175	1.2	20.1	116	22.0	0.006
W599318		65	5.6	12.5	2960	27.8	0.634
W599319		181	0.9	19.5	172	23.5	0.005
W599320		170	2.2	19.7	561	19.0	0.028
W599321		170	6.0	18.5	5800	15.6	0.192
W599322		170	5.9	18.6	5340	15.6	0.134
W599323		163	4.0	18.2	2180	13.9	0.057
W599324		153	8.2	16.2	3390	12.8	1.080
W599325		66	2.6	9.6	3820	111.0	0.194
W599326		69	2.3	10.4	3460	107.5	0.228
W599327		1	0.1	2.8	17	2.6	<0.005
W599328		58	2.6	9.3	1160	111.5	0.757
W599329		71	1.8	11.5	172	161.5	0.081
W599330		48	4.5	9.1	>10000	23.4	2.92
W599331		59	2.0	9.8	217	144.0	0.014
W599332		65	2.3	11.1	267	161.5	0.024
W599333		51	3.0	9.8	523	142.5	0.318
W599334		46	2.9	9.2	3990	133.5	2.49
W599335		172	4.2	19.1	1340	21.0	0.125
W599336		172	1.8	19.4	748	19.1	0.033
W599337		178	1.5	20.5	251	22.2	0.024
W599338		180	1.1	19.2	273	24.1	0.010
W599339		183	1.0	17.7	192	25.8	0.009
W599340		161	8.4	14.7	243	25.6	0.050
W599341		168	8.5	16.4	262	31.2	0.049
W599342		82	1.4	9.1	181	150.5	0.007
W599343		77	1.5	9.3	149	146.0	0.005
W599344		78	0.9	9.7	115	147.0	<0.005

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188145

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188147

Project: Klaza

P.O. No.: Batch 6

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188147

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599345		4.50		0.36	7.21	44.9	1420	1.75	0.15	3.13	0.97	56.9	9.8	34	6.95	16.5
W599346		3.64		1.34	8.62	239	1290	1.59	0.17	3.13	3.37	34.1	18.1	22	18.25	16.4
W599347		4.72		0.63	8.59	20.4	1330	1.11	0.05	5.22	0.28	34.5	19.2	23	7.79	46.6
W599348		6.71		0.23	8.06	33.6	1330	1.12	0.12	4.98	0.13	30.4	19.5	20	6.65	37.7
W599349		2.44		1.12	8.08	253	740	1.19	0.13	6.25	0.47	40.5	19.1	17	13.30	19.0
W599350		0.26		9.89	6.62	1975	240	1.23	6.37	1.68	36.2	44.5	10.8	28	16.15	199.5
W599351		7.30		0.44	8.10	29.5	1310	1.12	0.10	4.96	0.29	34.4	19.3	19	7.92	30.1
W599352		2.67		3.67	8.13	1500	650	1.76	0.36	2.45	2.96	35.3	18.0	18	18.95	51.4
W599353		2.87		0.71	8.46	527	690	1.61	0.12	5.44	0.99	34.7	15.0	20	15.85	14.8
W599354		2.98		4.25	6.71	564	520	1.34	0.13	5.61	9.39	30.1	14.0	14	12.60	21.8
W599355		2.27		0.79	8.52	149.5	970	1.51	0.07	2.51	0.46	30.0	19.4	23	4.78	28.9
W599356		2.33		0.17	9.30	19.1	1110	1.68	0.09	2.36	0.21	34.4	18.5	25	7.50	29.3
W599357		3.46		0.16	8.47	12.2	1280	1.47	0.07	5.05	0.18	34.5	19.4	21	18.15	66.4
W599358		2.78		0.10	8.04	19.0	1360	1.26	0.06	4.81	0.17	28.8	19.7	20	5.67	22.1
W599359		3.01		0.16	5.19	21.8	1560	0.29	0.04	1.96	0.07	31.4	7.9	39	7.72	9.2
W599360		2.72		0.18	5.53	24.1	1400	0.41	0.05	2.14	0.08	35.4	9.4	38	8.37	15.8
W599361		4.65		0.61	8.15	22.3	1350	1.17	0.04	5.32	0.89	41.3	17.8	34	7.31	49.2
W599362		3.76		0.42	8.44	15.7	1350	1.12	0.04	4.79	0.17	41.4	18.2	36	6.24	37.9
W599363		3.52		8.39	7.84	303	1100	1.12	0.08	4.12	23.0	40.0	15.9	28	8.94	29.8
W599364		1.53		8.78	8.20	380	1050	1.19	0.07	4.11	29.8	42.1	16.6	28	9.78	37.8
W599365		4.42		0.40	8.13	19.8	1410	1.18	0.09	4.33	0.24	36.1	17.7	34	6.45	40.4
W599366		5.18		0.11	7.73	7.3	1540	1.31	0.05	3.58	0.22	31.0	13.4	19	4.72	26.1
W599367		5.40		0.13	7.47	7.1	1610	1.55	0.07	4.55	0.18	28.4	12.4	20	5.31	22.9
W599368		4.81		0.29	7.04	18.5	1300	1.43	0.06	5.35	0.29	33.7	14.9	16	20.1	23.9
W599369		4.64		0.32	7.28	20.6	1270	1.48	0.07	3.61	0.47	36.6	15.7	16	30.8	26.3
W599370		4.46		0.41	7.29	23.7	1230	1.72	0.05	2.65	0.59	29.5	15.6	27	23.2	64.8
W599371		4.06		2.55	7.54	15.0	1270	1.58	0.06	3.22	0.68	29.5	16.3	34	8.18	69.1
W599372		<0.02		2.56	7.54	13.7	1240	1.48	0.06	3.16	0.66	30.8	15.9	34	7.87	64.9
W599373		2.52		0.42	7.61	11.3	1310	1.48	0.06	5.17	0.72	35.8	14.3	29	10.15	54.5
W599374		3.17		1.01	7.62	14.6	1400	1.52	0.06	3.54	0.59	30.4	15.4	32	8.57	79.9
W599375		3.83		4.62	6.81	632	840	2.05	0.09	4.72	8.16	34.5	11.9	60	19.40	15.2
W599376		0.26	1.530	91.8	4.60	3930	530	1.08	45.4	1.47	194.0	29.5	58.1	36	8.87	1240
W599377		4.20		1.57	7.77	105.0	1500	1.71	0.16	2.30	1.10	31.9	12.1	74	13.65	32.9
W599378		4.32		0.36	7.71	62.6	1340	1.62	0.14	3.50	0.21	44.7	13.5	71	19.90	31.1
W599379		3.73		0.24	7.40	23.6	1460	1.61	0.12	4.70	0.31	41.8	12.2	57	15.85	27.8
W599380		4.07		3.29	7.49	123.0	1220	1.48	0.13	5.40	1.37	51.5	11.8	56	13.20	28.8
W599381		3.03		2.04	7.48	270	1450	1.60	0.13	4.47	1.14	51.2	13.5	66	13.75	32.9
W599382		5.09		11.10	7.19	449	3300	1.88	0.12	4.23	7.53	51.7	12.2	53	66.5	44.4
W599383		4.11		1.55	8.04	93.6	1210	1.60	0.08	3.17	2.45	37.5	14.3	30	31.8	31.7
W599384		5.48		0.01	0.07	0.6	20	0.05	0.01	33.1	0.02	0.96	0.8	2	0.14	1.2

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Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599345		3.13	18.30	0.15	3.6	0.041	2.02	27.1	21.8	1.14	1440	1.93	2.09	11.4	13.5	1680
W599346		4.81	20.9	0.14	0.7	0.081	2.81	14.2	15.6	1.45	3550	2.45	1.28	6.6	9.4	1180
W599347		5.43	19.45	0.13	0.7	0.060	1.63	15.8	11.2	2.12	1300	1.88	2.38	6.2	8.8	1190
W599348		5.20	18.35	0.11	0.6	0.068	1.37	13.3	13.0	2.06	1760	2.38	2.01	5.6	8.6	1320
W599349		4.96	18.10	0.16	0.6	0.058	1.94	19.9	22.0	1.69	4350	2.22	0.82	6.0	7.7	1180
W599350		5.87	14.60	0.11	0.9	0.658	2.86	24.2	39.7	0.72	2020	8.99	0.07	6.1	16.1	510
W599351		5.19	19.60	0.12	0.7	0.067	1.75	15.6	9.7	2.04	1640	2.21	2.21	6.7	8.4	1300
W599352		6.63	19.35	0.13	0.6	0.269	2.78	16.2	22.5	0.59	10400	2.41	0.33	6.1	7.4	1140
W599353		4.64	19.10	0.12	0.7	0.138	2.54	16.0	14.7	1.81	5720	1.83	1.06	6.0	8.4	1350
W599354		5.02	15.10	0.11	0.6	0.060	2.52	14.6	18.4	1.95	8430	2.86	0.25	4.7	6.7	1010
W599355		5.24	20.9	0.10	0.9	0.061	1.04	12.0	32.9	0.61	2270	2.15	0.09	7.3	7.9	1400
W599356		4.99	22.8	0.11	0.8	0.071	1.27	14.5	39.4	0.94	1350	2.00	0.11	7.5	7.6	1510
W599357		5.41	20.8	0.14	0.8	0.059	1.57	15.8	14.4	1.59	1080	2.03	2.24	6.7	8.9	1360
W599358		5.37	19.20	0.12	0.8	0.066	1.50	12.6	17.4	1.98	1180	1.95	2.32	6.4	8.5	1330
W599359		1.69	12.70	0.14	0.3	0.020	1.43	15.7	13.7	0.22	406	2.95	1.20	10.3	6.8	660
W599360		1.87	13.70	0.12	0.3	0.022	1.45	18.4	13.9	0.30	471	2.98	1.35	10.4	7.4	710
W599361		4.68	19.65	0.16	0.7	0.064	1.75	19.5	14.8	2.02	1560	2.59	2.20	6.6	10.8	930
W599362		4.88	19.50	0.13	0.8	0.060	1.73	20.0	12.4	2.06	1180	2.75	2.40	6.6	10.4	960
W599363		4.49	18.40	0.14	0.7	0.063	2.71	18.6	24.4	1.90	4790	2.20	1.18	6.2	9.2	860
W599364		4.66	18.80	0.17	0.7	0.078	2.94	20.6	38.9	1.94	5180	3.47	0.91	6.3	9.5	880
W599365		4.70	19.30	0.15	0.8	0.057	1.93	16.7	17.1	2.17	1160	2.60	2.59	6.7	10.3	880
W599366		4.23	19.30	0.13	0.6	0.049	1.86	13.8	14.7	1.19	693	2.70	2.42	7.6	5.7	1040
W599367		3.92	18.30	0.11	0.6	0.043	1.83	13.4	16.7	1.27	911	2.71	2.37	7.1	6.8	970
W599368		4.25	16.70	0.11	0.5	0.049	1.67	16.2	24.3	1.83	1240	2.20	1.14	6.2	6.4	1000
W599369		4.13	18.15	0.12	0.7	0.053	1.92	18.0	27.5	2.05	938	2.25	0.60	6.7	6.6	1100
W599370		4.52	18.30	0.14	0.7	0.071	1.72	13.2	26.5	2.20	713	2.57	1.40	6.5	9.2	910
W599371		4.85	19.30	0.13	0.6	0.095	1.67	13.7	24.9	2.08	826	3.05	2.13	7.0	10.9	910
W599372		4.76	18.55	0.12	0.6	0.096	1.64	14.1	23.8	2.05	813	3.09	2.08	6.8	10.8	870
W599373		4.75	17.50	0.11	0.6	0.088	1.68	17.4	21.9	1.98	1380	2.64	2.00	6.6	8.6	960
W599374		4.62	19.15	0.12	0.6	0.103	1.85	14.2	21.9	1.78	914	2.91	2.13	7.4	10.3	950
W599375		2.99	17.90	0.15	0.7	0.037	3.25	15.0	10.3	0.53	8290	5.14	0.04	7.5	16.5	830
W599376		11.20	11.25	0.13	0.7	4.25	1.91	15.1	31.6	0.51	1880	15.90	0.15	4.2	14.5	370
W599377		3.61	19.65	0.13	0.8	0.049	2.60	13.5	27.5	0.48	1730	2.37	0.32	8.6	19.0	940
W599378		4.01	18.40	0.12	0.8	0.044	2.25	21.1	26.9	0.98	1290	2.69	0.28	7.8	21.0	900
W599379		3.92	17.45	0.12	0.6	0.044	2.15	20.0	18.7	1.20	1200	2.38	0.79	7.2	16.4	910
W599380		3.54	17.20	0.15	0.7	0.044	2.53	26.5	19.8	1.40	3460	3.01	0.40	7.4	17.0	850
W599381		3.39	17.60	0.14	0.7	0.047	2.80	25.1	19.1	1.39	2420	2.97	0.94	7.7	19.2	850
W599382		4.05	17.50	0.12	1.1	0.040	2.28	26.9	28.7	1.68	3490	2.68	0.20	7.0	16.6	800
W599383		4.35	19.45	0.13	0.7	0.048	2.13	17.5	31.9	1.51	1740	2.42	0.64	7.3	10.6	960
W599384		0.17	0.28	0.11	<0.1	<0.005	0.01	1.1	1.1	1.52	115	0.06	0.02	0.1	1.1	50

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599345		23.3	62.1	0.002	0.08	11.70	6.7	<1	1.3	594	0.78	<0.05	6.59	0.405	1.64	3.0
W599346		46.5	98.8	<0.002	0.08	14.20	19.1	<1	1.5	458	0.38	0.08	3.37	0.497	2.62	1.6
W599347		55.2	42.3	<0.002	0.03	5.37	19.4	1	1.2	767	0.38	<0.05	3.73	0.497	0.93	1.0
W599348		13.2	35.3	<0.002	0.04	6.91	18.4	1	1.2	677	0.33	0.06	3.18	0.469	0.98	0.7
W599349		35.0	97.8	<0.002	0.13	13.35	18.7	1	1.2	379	0.36	0.12	4.69	0.463	2.47	1.7
W599350		1780	156.0	<0.002	3.41	46.7	8.9	1	6.1	76.0	0.49	0.20	10.80	0.206	2.52	4.2
W599351		17.3	49.7	<0.002	0.04	6.51	19.0	<1	1.3	708	0.39	<0.05	3.92	0.493	1.11	1.1
W599352		154.0	149.5	<0.002	0.17	43.9	19.2	1	2.2	226	0.34	0.23	4.56	0.455	3.40	2.9
W599353		31.1	115.0	<0.002	0.23	10.35	20.1	<1	1.6	431	0.35	<0.05	4.30	0.493	2.11	1.3
W599354		517	129.0	<0.002	1.39	27.6	14.9	1	2.1	210	0.28	0.08	3.58	0.370	3.54	1.8
W599355		19.5	17.1	<0.002	0.04	19.60	19.8	<1	1.4	168.5	0.41	<0.05	3.70	0.537	0.56	1.9
W599356		12.8	23.6	<0.002	0.02	11.85	20.8	1	1.5	190.5	0.46	<0.05	4.17	0.573	0.54	1.6
W599357		13.8	43.2	<0.002	0.01	3.33	19.8	<1	1.2	756	0.39	<0.05	3.72	0.512	0.54	1.2
W599358		11.4	29.2	<0.002	0.01	1.64	16.4	1	1.2	760	0.38	<0.05	2.84	0.493	0.56	0.9
W599359		37.2	68.0	<0.002	0.06	4.47	7.7	<1	8.8	399	0.64	<0.05	4.40	0.604	1.37	1.6
W599360		39.3	71.5	<0.002	0.06	5.44	8.5	1	9.0	408	0.64	<0.05	4.87	0.605	1.45	1.5
W599361		45.2	52.0	<0.002	0.06	7.25	19.1	1	1.5	709	0.40	<0.05	5.00	0.477	0.81	1.5
W599362		13.7	52.2	<0.002	0.05	5.89	18.9	1	1.2	708	0.42	<0.05	5.26	0.489	0.80	1.7
W599363		1220	102.5	<0.002	0.98	20.3	17.6	1	2.1	396	0.39	<0.05	5.51	0.446	2.93	1.8
W599364		1185	132.5	0.002	1.28	24.0	17.7	1	2.2	349	0.40	<0.05	5.80	0.454	3.29	1.9
W599365		19.8	44.6	<0.002	0.03	5.63	17.8	1	1.2	697	0.44	<0.05	4.96	0.471	0.84	1.8
W599366		15.9	43.5	<0.002	0.01	1.85	13.0	<1	1.2	768	0.49	<0.05	4.34	0.418	0.49	1.8
W599367		15.9	42.5	<0.002	0.03	2.31	11.8	1	1.2	782	0.46	<0.05	4.00	0.398	0.47	1.5
W599368		24.6	59.0	0.002	0.09	4.95	15.6	<1	1.1	719	0.38	<0.05	4.79	0.397	0.60	2.0
W599369		44.6	63.6	<0.002	0.06	4.00	17.2	<1	1.2	753	0.42	<0.05	5.42	0.434	0.74	2.2
W599370		33.6	48.7	<0.002	0.06	3.90	16.2	1	1.4	682	0.40	<0.05	4.29	0.439	0.68	1.7
W599371		38.5	43.4	<0.002	0.05	2.97	16.0	1	1.9	704	0.45	<0.05	4.20	0.458	0.62	1.3
W599372		36.9	45.6	<0.002	0.04	2.90	16.1	<1	1.8	686	0.44	<0.05	4.22	0.447	0.57	1.2
W599373		41.4	56.1	0.002	0.03	2.74	15.7	1	1.5	779	0.41	<0.05	5.30	0.441	0.61	1.7
W599374		42.7	52.7	<0.002	0.04	3.37	15.5	<1	1.9	711	0.46	<0.05	4.68	0.448	0.58	1.5
W599375		138.0	129.5	<0.002	0.31	46.0	10.7	1	1.7	94.1	0.50	<0.05	5.58	0.340	4.80	1.6
W599376		8930	107.0	0.003	>10.0	230	6.7	2	10.1	87.5	0.32	1.79	6.56	0.144	1.71	4.1
W599377		37.6	83.2	<0.002	0.06	23.5	12.7	1	1.7	160.5	0.57	<0.05	5.87	0.391	1.60	1.3
W599378		19.4	81.2	<0.002	0.13	13.05	13.4	<1	1.8	203	0.51	<0.05	6.99	0.363	1.11	1.7
W599379		23.0	62.7	<0.002	0.02	8.32	11.5	1	1.1	370	0.48	<0.05	5.82	0.360	0.97	2.0
W599380		58.1	121.0	<0.002	0.44	16.75	12.6	1	1.2	293	0.48	<0.05	7.73	0.340	2.01	2.1
W599381		47.5	121.5	<0.002	0.38	16.40	12.8	1	1.5	365	0.53	<0.05	7.78	0.349	2.12	2.2
W599382		430	120.5	<0.002	0.57	20.5	12.2	<1	1.6	305	0.49	<0.05	7.35	0.324	1.54	2.8
W599383		83.1	74.1	0.002	0.21	14.00	14.0	<1	1.4	322	0.45	<0.05	4.64	0.401	1.53	2.5
W599384		0.8	0.5	<0.002	<0.01	<0.05	0.2	1	<0.2	80.4	<0.05	<0.05	0.06	0.005	<0.02	0.1

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599345		84	0.9	10.2	179	155.0	<0.005
W599346		179	2.8	16.7	375	17.8	0.028
W599347		181	0.8	18.2	110	15.9	<0.005
W599348		180	0.9	17.0	129	13.7	<0.005
W599349		166	1.7	18.7	158	13.7	0.018
W599350		64	5.7	11.0	2870	27.0	0.602
W599351		176	0.7	19.9	109	15.4	<0.005
W599352		169	4.3	16.7	356	12.5	0.068
W599353		184	1.6	18.5	186	16.3	0.024
W599354		134	3.7	17.4	760	13.4	0.214
W599355		184	46.3	18.1	122	20.5	<0.005
W599356		202	19.2	21.4	85	20.6	<0.005
W599357		183	1.0	19.3	97	20.2	<0.005
W599358		172	0.7	17.2	95	18.4	<0.005
W599359		76	1.3	10.3	18	9.7	0.005
W599360		85	1.3	11.2	21	9.3	<0.005
W599361		165	0.9	20.3	127	16.0	<0.005
W599362		168	0.9	19.1	93	15.8	<0.005
W599363		152	2.7	17.6	1860	13.9	0.052
W599364		155	2.7	17.8	2570	13.8	0.062
W599365		163	0.8	18.4	95	15.5	<0.005
W599366		131	2.1	14.3	92	14.9	<0.005
W599367		125	1.0	12.5	85	13.0	<0.005
W599368		141	2.0	17.0	115	12.8	<0.005
W599369		154	2.1	16.2	98	15.3	<0.005
W599370		148	2.2	12.6	123	14.2	0.007
W599371		151	12.1	12.9	157	13.9	0.007
W599372		149	12.8	12.9	152	13.4	0.008
W599373		150	2.0	15.9	151	12.9	0.009
W599374		151	6.7	13.4	143	13.1	0.011
W599375		105	5.3	13.4	1060	21.7	0.062
W599376		47	4.1	9.0	>10000	21.9	2.93
W599377		120	6.9	11.9	209	24.8	0.018
W599378		113	3.8	16.8	93	25.1	0.040
W599379		108	2.6	17.0	103	16.2	<0.005
W599380		105	2.9	19.1	149	20.3	0.020
W599381		107	3.4	19.6	139	23.7	0.030
W599382		96	8.8	17.9	575	32.3	0.202
W599383		125	3.0	15.9	220	16.3	0.024
W599384		1	0.1	2.2	5	1.6	<0.005

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C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20188147

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 13-OCT-2020
Account: ROCKHA

CERTIFICATE WH20188148

Project: Klaza

P.O. No.: Batch 8

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL LIZ SMITH	MATT DUMALA	SCOTT NEWMAN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188148

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599385		7.23		0.33	8.02	28.2	1110	1.16	0.10	4.52	0.58	28.3	15.5	18	6.89	19.2
W599386		7.35		2.81	7.57	77.8	900	1.17	0.17	4.30	1.04	38.4	11.9	19	13.10	33.2
W599387		3.61		0.18	7.67	13.6	1520	1.40	0.10	3.55	0.27	36.7	11.9	16	9.23	17.4
W599388		4.84		6.54	7.93	898	1080	1.40	0.09	4.28	1.71	34.0	12.9	13	10.70	31.4
W599389		4.05		0.16	8.00	9.4	1530	1.37	0.07	3.35	0.22	32.4	13.9	14	5.43	20.1
W599390		5.39		0.14	8.13	8.8	1500	1.42	0.08	3.64	0.23	32.5	13.2	14	4.60	19.2
W599391		3.34		0.19	8.30	15.8	1470	1.54	0.08	3.88	0.26	35.3	13.0	14	9.39	17.8
W599392		4.17		0.78	7.74	105.0	1240	1.52	0.12	3.95	1.63	33.2	13.5	13	13.90	17.9
W599393		<0.02		0.78	8.40	107.0	1330	1.64	0.12	4.24	1.76	38.4	14.1	14	15.70	18.4
W599394		4.42		1.69	8.04	431	1400	1.57	0.06	3.94	2.15	33.3	12.5	14	12.35	29.0
W599395		2.90		3.56	6.99	972	1450	1.42	0.06	4.18	1.15	29.0	12.0	13	14.05	79.3
W599396		5.02		1.56	7.77	427	1440	1.72	0.08	3.73	1.15	33.8	12.5	13	15.85	39.9
W599397		4.90		0.10	8.23	7.1	1520	1.56	0.06	4.22	0.14	33.3	13.3	15	7.85	14.4
W599398		3.35		0.23	8.20	24.3	1500	1.47	0.06	4.34	0.16	32.4	13.0	15	6.04	16.8
W599399		0.26		9.82	6.67	1965	380	1.49	5.44	1.72	37.6	47.8	11.5	28	16.70	196.0
W599400		3.54		2.85	7.54	587	1180	1.57	0.09	4.29	3.40	35.0	12.6	15	12.00	24.9
W599401		4.54		0.54	6.74	20.9	1600	2.13	0.08	3.14	0.27	43.4	6.5	15	8.26	9.2
W599402		3.94		0.51	6.77	38.2	2060	2.15	0.09	3.09	0.21	43.9	6.5	15	8.12	13.4
W599403		3.81		0.43	6.96	35.0	1860	1.90	0.16	3.22	0.21	51.5	5.3	14	7.58	24.0
W599404		2.20		0.76	6.84	17.4	640	1.81	0.09	3.46	0.78	53.7	5.9	14	7.88	5.1
W599405		3.04		2.46	7.64	314	1190	1.62	0.19	3.50	2.27	34.7	11.2	13	13.40	20.3
W599406		1.49		2.47	8.04	278	1140	1.63	0.20	3.53	3.48	39.0	10.9	12	14.25	15.4
W599407		2.82		16.85	7.71	873	1380	1.31	0.21	3.89	4.18	35.4	10.0	16	10.10	39.9
W599408		4.92		0.54	7.62	181.0	1210	1.36	0.07	4.26	1.01	35.6	10.0	13	13.30	15.9
W599409		4.84		0.18	8.00	12.4	1440	1.33	0.07	4.05	0.16	34.8	11.7	14	6.73	11.7
W599410		5.25		0.45	7.32	55.7	1380	1.11	0.11	4.32	0.30	41.9	11.2	52	8.94	29.1
W599411		5.77		0.29	7.60	23.6	1340	1.22	0.18	4.49	0.31	41.6	11.5	49	9.92	23.7
W599412		5.46		0.29	7.57	147.0	1440	1.24	0.15	5.02	0.49	40.0	12.6	49	7.96	31.3
W599413		4.11		0.46	7.65	78.3	1390	1.24	0.12	4.09	0.56	38.6	13.6	51	8.73	40.1
W599414		3.42		0.23	7.47	11.8	1480	1.29	0.16	4.30	0.20	37.8	13.5	54	7.82	24.7
W599415		3.15		0.22	7.75	13.1	1510	1.33	0.17	4.33	0.27	41.3	13.2	56	7.93	30.2
W599416		3.50		1.56	7.79	160.0	960	1.44	0.25	6.21	0.42	37.8	20.0	66	16.85	34.6
W599417		0.26	1.465	93.8	4.67	4090	200	0.95	46.7	1.58	200	30.2	56.3	36	8.88	1245
W599418		2.11		0.60	7.71	41.1	1310	1.09	0.10	4.95	0.30	34.9	18.2	63	5.03	25.7
W599419		5.60		0.18	7.86	138.5	1340	1.15	0.08	5.23	0.12	37.1	17.3	62	5.74	33.4
W599420		5.13		0.02	0.07	0.3	20	0.05	0.04	33.1	0.02	0.94	0.5	1	<0.05	1.5
W599421		5.88		0.28	8.14	416	1270	1.16	0.08	5.21	0.45	41.4	18.3	64	7.04	28.3
W599422		5.98		0.25	8.13	45.6	1350	1.07	0.11	5.23	0.60	41.0	19.9	69	6.43	56.1
W599423		5.13		0.22	8.09	30.3	1360	1.11	0.07	5.04	0.20	39.5	19.6	68	6.22	41.9
W599424		4.34		0.16	8.06	10.0	1410	1.07	0.08	5.27	0.15	34.5	18.4	67	5.69	30.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188148

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599385		5.01	18.40	0.08	0.7	0.060	1.49	12.5	21.4	2.05	1330	2.11	2.37	5.8	5.0	950
W599386		4.05	17.05	0.10	0.8	0.080	2.22	19.8	17.1	1.55	2170	2.96	1.37	6.3	5.4	720
W599387		3.60	19.45	0.14	0.9	0.063	2.30	17.2	14.5	1.29	1000	2.84	2.45	7.6	6.9	850
W599388		3.99	19.85	0.11	0.7	0.051	2.42	14.9	15.3	1.43	3460	2.10	1.47	7.2	7.4	1050
W599389		3.95	20.3	0.13	0.6	0.052	1.66	14.5	21.4	1.87	965	2.13	2.65	7.6	7.5	1050
W599390		4.06	20.6	0.12	0.6	0.043	1.59	14.9	18.2	1.87	976	1.98	2.69	7.6	7.8	1060
W599391		4.09	21.0	0.14	0.6	0.050	1.64	16.1	16.0	1.57	1060	2.13	2.56	7.5	7.3	1080
W599392		3.95	19.55	0.13	0.6	0.048	2.79	15.3	23.6	1.23	2160	1.97	0.94	7.2	7.0	1000
W599393		4.27	20.9	0.15	0.6	0.056	3.00	17.5	25.5	1.34	2330	2.16	0.99	7.6	7.8	1070
W599394		3.65	19.50	0.13	0.5	0.040	3.05	14.9	15.4	1.20	2660	2.02	1.18	7.2	7.2	1040
W599395		3.24	18.40	0.14	0.5	0.042	3.72	12.3	11.3	1.24	2850	1.98	0.58	6.8	6.8	980
W599396		3.50	20.0	0.13	0.5	0.039	3.48	14.7	18.5	1.06	2530	2.00	0.65	7.3	7.2	1000
W599397		4.10	20.3	0.16	0.5	0.046	1.68	15.2	10.0	1.49	946	2.15	2.67	7.6	7.6	1060
W599398		4.11	20.3	0.14	0.5	0.045	1.81	14.8	14.7	1.52	1150	2.08	2.52	7.5	7.7	1080
W599399		5.87	15.20	0.13	1.0	0.672	2.85	25.2	45.2	0.73	2030	8.32	0.07	6.4	16.6	520
W599400		4.01	19.05	0.14	0.8	0.045	2.59	16.1	27.8	1.40	2660	2.05	1.21	7.3	7.2	1000
W599401		2.25	18.35	0.13	3.9	0.025	2.67	21.4	79.5	0.97	721	0.65	0.64	9.8	5.8	1060
W599402		2.19	19.15	0.13	3.8	0.023	2.60	21.2	55.5	0.95	609	0.67	0.75	9.8	5.7	1000
W599403		2.23	17.90	0.20	3.8	0.023	2.59	26.3	76.5	1.01	688	1.13	0.15	9.2	5.9	1010
W599404		2.40	18.10	0.18	4.0	0.023	2.57	26.5	71.8	1.11	1020	0.68	0.09	9.8	5.7	1050
W599405		4.22	18.85	0.14	0.5	0.042	2.98	15.5	36.0	1.30	4540	2.05	0.94	6.5	6.6	1010
W599406		4.13	19.05	0.15	0.5	0.035	3.10	18.3	39.4	1.34	4750	2.24	0.85	6.7	6.6	1010
W599407		3.85	18.10	0.15	0.4	0.039	2.76	16.5	17.8	1.32	2770	2.01	1.21	6.7	6.7	980
W599408		3.68	18.40	0.13	0.4	0.042	2.36	16.7	18.6	1.34	1610	1.79	1.40	6.8	6.5	980
W599409		4.09	20.2	0.12	0.4	0.037	1.67	15.7	13.3	1.53	934	2.15	2.65	7.6	7.0	1050
W599410		3.69	16.50	0.13	0.7	0.042	2.60	20.3	21.4	1.69	1460	2.29	1.73	6.6	13.6	820
W599411		3.87	16.90	0.15	0.7	0.052	2.16	19.4	18.6	1.83	1290	2.36	2.00	6.7	12.2	870
W599412		3.98	16.95	0.15	0.8	0.042	2.36	19.3	18.2	1.95	1520	2.18	1.84	6.5	12.0	870
W599413		4.06	18.05	0.15	0.7	0.042	2.56	17.9	16.1	1.96	1250	2.51	1.93	6.6	12.7	860
W599414		4.16	18.65	0.13	0.8	0.048	2.15	16.7	14.5	1.91	1100	2.84	2.32	7.0	14.4	910
W599415		4.15	18.70	0.16	0.7	0.047	2.02	19.1	13.3	1.82	1080	2.79	2.35	7.1	14.8	930
W599416		5.02	17.90	0.11	0.7	0.058	2.14	17.5	20.9	1.58	1600	1.84	0.57	5.7	21.4	1120
W599417		11.65	11.80	0.10	0.8	4.10	1.95	15.1	29.1	0.56	1900	17.55	0.15	4.6	13.9	380
W599418		4.99	18.45	0.11	0.8	0.050	1.63	15.5	10.7	2.27	1100	1.77	2.33	6.2	20.2	1160
W599419		4.99	18.30	0.13	0.8	0.039	1.75	17.3	10.7	2.45	1370	1.86	2.25	6.4	20.1	1120
W599420		0.10	0.23	0.09	<0.1	<0.005	0.02	1.1	1.1	1.49	90	0.07	0.03	0.1	0.6	70
W599421		5.01	18.95	0.11	0.8	0.050	1.74	19.1	15.2	2.48	1420	1.82	2.30	6.3	20.3	1180
W599422		5.20	19.35	0.12	0.8	0.067	1.81	18.7	13.2	2.78	1220	1.94	2.32	6.5	23.2	1190
W599423		5.18	19.55	0.11	0.8	0.055	1.90	18.6	14.4	2.70	1530	2.16	2.39	6.7	23.4	1190
W599424		5.31	18.50	0.11	0.7	0.054	1.76	15.7	10.9	2.76	1240	1.69	2.47	6.2	21.8	1200

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VANCOUVER BC V6B 1L8

Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188148

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599385		27.0	38.2	<0.002	0.09	3.26	16.0	1	1.2	660	0.36	<0.05	2.98	0.462	0.66	0.9
W599386		50.2	109.5	<0.002	0.64	30.6	13.1	1	1.6	405	0.48	<0.05	7.70	0.348	2.02	2.5
W599387		18.6	75.1	<0.002	0.05	11.15	10.6	1	1.3	576	0.57	<0.05	6.31	0.342	0.97	2.0
W599388		51.3	82.4	<0.002	0.94	23.4	11.3	<1	1.6	468	0.43	<0.05	3.33	0.390	1.76	1.2
W599389		16.1	37.6	<0.002	0.03	3.88	11.4	1	1.4	703	0.45	<0.05	3.32	0.394	0.61	1.2
W599390		15.3	34.5	<0.002	0.01	6.83	11.6	1	1.2	727	0.45	<0.05	3.22	0.401	0.49	1.2
W599391		19.7	44.5	<0.002	0.04	13.05	12.1	<1	1.5	709	0.44	<0.05	3.64	0.399	0.67	1.2
W599392		62.6	106.5	<0.002	0.68	15.65	11.2	1	1.7	383	0.43	<0.05	3.36	0.376	2.55	1.4
W599393		62.9	123.0	<0.002	0.72	16.40	12.3	<1	1.8	406	0.48	<0.05	3.83	0.402	2.83	1.5
W599394		92.3	117.0	0.002	0.88	19.80	11.3	<1	2.2	438	0.43	<0.05	3.42	0.391	3.60	1.4
W599395		429	144.0	<0.002	1.51	57.4	10.2	<1	3.3	334	0.41	<0.05	2.91	0.355	4.28	1.2
W599396		68.8	151.0	<0.002	1.40	38.5	11.4	1	1.5	332	0.42	<0.05	3.49	0.385	4.57	1.5
W599397		13.3	41.6	<0.002	0.01	3.20	11.7	1	1.2	704	0.45	<0.05	3.50	0.405	0.69	1.2
W599398		14.2	46.7	<0.002	0.07	4.76	11.4	1	1.4	678	0.45	<0.05	3.27	0.400	0.87	1.2
W599399		1780	165.5	<0.002	3.41	48.6	9.4	1	6.1	79.6	0.50	0.21	11.05	0.209	2.54	4.4
W599400		331	91.3	<0.002	1.25	16.00	10.3	1	2.9	462	0.44	<0.05	3.84	0.363	2.57	1.6
W599401		46.0	76.2	<0.002	0.13	8.96	4.6	<1	1.5	264	0.67	<0.05	7.05	0.302	1.85	3.6
W599402		30.9	76.0	<0.002	0.16	13.75	4.5	1	1.6	243	0.68	<0.05	7.31	0.283	1.60	3.9
W599403		23.0	76.3	<0.002	0.13	21.9	4.1	<1	1.7	231	0.71	<0.05	8.58	0.285	1.44	4.1
W599404		37.1	76.3	<0.002	0.19	15.45	4.5	<1	1.6	268	0.69	<0.05	7.73	0.305	1.87	3.7
W599405		205	111.0	<0.002	1.23	13.30	10.2	1	1.6	347	0.43	<0.05	3.66	0.367	3.14	1.4
W599406		214	138.0	<0.002	1.14	14.30	10.6	<1	1.8	334	0.43	<0.05	4.00	0.371	3.25	1.6
W599407		1685	110.5	<0.002	1.13	36.0	10.1	<1	2.6	432	0.42	<0.05	3.88	0.386	2.96	1.4
W599408		42.1	98.3	0.002	0.42	10.65	9.9	<1	2.3	435	0.44	<0.05	3.63	0.377	1.81	1.6
W599409		15.4	44.6	<0.002	0.04	2.88	10.7	1	1.3	666	0.48	<0.05	3.73	0.411	0.69	1.3
W599410		21.8	103.0	<0.002	0.38	7.13	11.6	1	1.6	485	0.50	<0.05	6.56	0.364	1.54	2.1
W599411		24.8	81.1	<0.002	0.22	5.58	12.3	<1	1.2	552	0.49	<0.05	6.23	0.377	1.14	2.0
W599412		23.2	90.5	<0.002	0.21	4.53	12.8	1	1.8	570	0.45	<0.05	5.58	0.395	1.09	2.0
W599413		28.9	103.5	<0.002	0.35	6.49	13.9	1	1.6	516	0.45	<0.05	5.42	0.403	1.50	1.6
W599414		16.9	59.9	<0.002	0.04	5.98	12.9	1	1.1	593	0.49	<0.05	5.05	0.396	0.96	1.6
W599415		17.9	61.8	<0.002	0.04	3.79	13.2	<1	1.3	603	0.48	<0.05	5.13	0.396	0.81	1.6
W599416		62.3	80.2	<0.002	1.75	14.50	15.3	1	1.6	385	0.37	0.05	3.60	0.468	2.23	1.8
W599417		9390	103.0	0.002	>10.0	235	6.1	2	10.9	85.2	0.38	1.97	6.53	0.151	1.65	4.1
W599418		17.9	34.4	<0.002	0.13	4.13	16.3	<1	1.2	845	0.39	<0.05	3.27	0.484	0.61	1.1
W599419		8.6	45.5	<0.002	0.16	4.05	15.8	<1	1.3	822	0.40	<0.05	3.60	0.479	0.69	1.2
W599420		0.9	0.6	<0.002	0.01	0.12	0.2	1	<0.2	75.1	<0.05	<0.05	0.07	0.005	0.02	0.1
W599421		18.9	50.9	0.002	0.19	4.59	16.6	1	1.7	848	0.41	<0.05	3.98	0.490	0.75	1.3
W599422		16.2	50.8	<0.002	0.08	2.43	17.3	1	1.5	868	0.41	<0.05	3.76	0.489	0.73	1.3
W599423		14.8	54.4	<0.002	0.12	4.48	17.2	<1	1.4	858	0.39	<0.05	3.69	0.494	0.99	1.3
W599424		12.9	38.9	<0.002	0.03	2.70	16.4	<1	1.1	901	0.42	<0.05	3.26	0.506	0.69	1.1

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Finalized Date: 13-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20188148

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599385		173	1.5	15.5	146	15.2	0.023
W599386		120	3.7	14.8	160	20.0	0.037
W599387		97	2.5	13.2	97	21.0	<0.005
W599388		108	2.5	14.2	219	13.2	0.066
W599389		107	0.8	13.2	94	11.8	<0.005
W599390		112	0.7	14.1	98	12.3	<0.005
W599391		111	0.9	14.6	101	12.3	0.019
W599392		104	1.8	12.8	186	11.2	0.041
W599393		112	2.0	14.1	196	12.1	0.040
W599394		107	4.1	12.7	210	9.8	0.139
W599395		99	8.1	12.4	128	9.3	0.450
W599396		105	5.8	13.1	127	10.1	0.159
W599397		112	0.6	14.5	92	10.6	<0.005
W599398		111	0.9	14.5	94	10.9	0.009
W599399		63	5.6	11.7	2900	28.5	0.601
W599400		97	2.9	13.1	287	25.3	0.210
W599401		54	0.8	7.9	80	151.5	0.007
W599402		51	0.9	7.7	67	150.5	0.006
W599403		51	0.9	7.8	77	147.0	<0.005
W599404		54	1.1	8.6	122	156.5	0.032
W599405		105	3.2	12.9	225	9.4	0.074
W599406		104	3.5	13.9	281	10.2	0.113
W599407		103	2.5	13.3	320	9.5	0.558
W599408		101	1.6	12.4	150	8.6	0.097
W599409		110	0.8	13.8	95	9.8	<0.005
W599410		112	2.1	13.7	100	16.5	0.044
W599411		118	1.5	15.8	116	17.7	0.009
W599412		126	3.1	15.3	117	20.0	0.026
W599413		132	1.9	14.6	116	20.9	0.047
W599414		128	1.4	14.8	106	24.3	0.006
W599415		128	1.5	14.9	111	19.3	0.011
W599416		158	5.7	15.6	129	15.1	0.022
W599417		49	4.6	8.9	>10000	23.3	2.89
W599418		165	0.8	15.5	97	18.6	0.006
W599419		161	0.9	15.9	88	18.6	0.026
W599420		1	<0.1	1.8	3	1.2	<0.005
W599421		167	1.3	17.4	104	17.6	0.034
W599422		172	1.3	17.8	128	18.5	0.013
W599423		167	1.0	17.4	114	18.1	0.010
W599424		173	0.5	15.6	91	17.1	0.005

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Project: Klaza

Finalized Date: 13-OCT-2020
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CERTIFICATE OF ANALYSIS WH20188148

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 28-OCT-2020
Account: ROCKHA

CERTIFICATE WH20195518

Project: Klaza

P.O. No.: Batch 7

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-QC	Pulverizing QC Test
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195518

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
W594187		2.81					44.6	7.95	4600	750	1.56	0.10	3.98	23.0	41.1	14.0
W594188		2.66		118	1.815	1.985	>100	4.48	>10000	200	1.00	0.11	3.14	283	23.1	8.9
W594189		3.50		122	1.840	2.57	>100	4.77	>10000	200	0.76	0.11	2.27	370	21.2	6.9
W594190		4.03			1.270		60.6	7.04	2800	430	1.51	0.08	2.00	102.5	32.7	9.9
W594191		3.81					13.60	7.73	8560	800	1.45	0.08	3.68	9.54	38.3	12.8
W594192		3.54					8.21	7.10	8940	540	1.53	0.10	4.13	35.8	39.6	12.6
W594193		0.13	12.05	275	1.575	2.77	>100	3.50	>10000	120	0.87	141.5	2.32	418	23.1	12.1
W594194		3.67					5.63	7.93	3980	920	1.45	0.14	3.28	107.0	41.0	13.4
W594195		4.82					2.66	7.49	3820	1090	1.57	0.09	3.40	31.0	34.4	11.1
W594196		1.56	12.30	276	1.725	1.740	>100	2.34	>10000	90	0.58	0.13	3.33	206	14.05	6.2
W594197		2.82					20.2	8.07	1715	790	1.57	0.08	2.82	67.9	40.7	12.2
W594198		1.45					17.65	7.42	1660	600	1.59	0.23	4.78	42.0	43.2	14.2
W594199		4.93					0.06	0.10	4.9	20	0.09	0.01	33.6	0.13	0.92	1.1
W594200		1.49					35.1	7.23	>10000	280	1.22	0.11	6.56	48.5	38.5	17.9
W594201		3.79					2.26	8.15	598	1030	1.53	0.09	5.27	1.44	42.0	21.8
W594202		2.03					13.05	6.76	1645	700	1.54	1.45	4.76	25.7	33.6	15.5
W594203		1.91	16.35	321	1.980	1.010	>100	6.02	>10000	450	1.04	0.52	6.07	131.0	31.5	13.9
W594204		0.26				1.500	95.3	4.64	4170	190	1.03	51.9	1.54	201	30.9	60.2
W594205		2.12			1.725		61.0	6.15	478	300	1.00	0.48	6.01	104.0	30.1	19.5
W594206		2.45					2.52	5.44	187.0	400	0.84	0.51	7.62	0.71	32.6	10.4
W594207		8.59					8.57	6.85	2650	420	1.47	0.03	4.09	20.1	32.4	13.5
W594208		<0.02					8.10	6.77	2660	420	1.37	0.03	4.02	19.85	33.1	13.2
W594209		4.14		884	5.37	5.79	>100	3.38	1465	180	0.66	0.19	4.77	813	16.70	8.4
W594210		4.27					4.79	8.50	241	530	1.83	0.12	3.82	7.60	39.3	20.2
W594211		7.13					1.22	8.43	48.3	320	1.56	0.08	3.92	1.24	38.5	21.4
W594212		3.38					2.03	6.86	1635	740	1.40	0.08	5.87	2.25	34.9	12.3
W594213		4.72					3.45	7.20	4880	510	1.38	0.13	5.14	7.14	39.3	12.9
W594214		4.32					18.70	7.86	3500	650	1.54	0.10	4.44	13.85	40.6	14.6
W594215		3.53					1.43	8.08	178.0	1070	1.36	0.06	4.60	0.71	38.3	17.3
W594216		2.87					8.51	5.19	3640	400	1.07	0.23	7.09	28.8	32.0	9.9
W594217		3.37					4.81	7.47	618	740	1.64	0.10	5.13	6.83	36.1	15.4
W594218		8.04					20.6	7.46	720	560	1.30	0.11	5.28	50.3	35.3	12.2
W594219		3.03					14.20	7.44	1810	530	1.30	0.10	5.28	48.0	35.5	12.5
W594220		5.35					0.33	8.34	23.7	1000	1.28	0.16	4.17	0.31	41.7	16.6
W594221		5.18					79.9	7.26	261	440	1.29	0.22	3.91	15.95	39.3	9.3
W594222		4.79					9.03	7.22	456	770	1.38	0.02	4.17	21.0	34.3	13.6
W594223		4.39					15.70	6.85	301	500	1.20	0.67	7.75	27.5	34.7	16.1
W594224		2.18					1.47	8.39	493	770	1.54	0.13	4.37	1.52	42.3	14.9
W594225		2.74					3.01	6.41	2290	490	1.12	0.12	5.82	19.85	35.8	9.7
W594226		2.92				2.64	22.5	5.10	5060	110	0.75	0.13	2.89	424	25.9	10.5

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CERTIFICATE OF ANALYSIS WH20195518

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W594187		15	18.05	76.1	4.25	18.10	0.09	0.5	0.061	3.06	20.5	15.2	1.32	3080	2.08	0.19
W594188		11	7.85	191.5	9.86	10.80	0.08	0.3	0.214	1.74	11.5	54.1	0.78	5000	2.43	0.02
W594189		14	6.55	387	10.10	9.74	0.07	0.2	0.267	2.10	10.5	11.8	0.97	4280	1.45	0.02
W594190		14	12.25	151.5	6.09	15.60	0.08	0.5	0.062	2.85	16.7	63.6	1.61	6220	1.81	0.03
W594191		15	15.45	146.0	4.84	17.85	0.10	0.5	0.055	3.45	17.6	14.7	1.12	2680	1.98	0.78
W594192		13	16.45	62.3	4.53	18.45	0.11	0.5	0.070	3.61	19.5	12.1	1.14	3530	2.06	0.08
W594193		34	9.12	3030	11.05	8.40	0.08	0.6	13.30	1.54	11.6	21.9	0.94	4090	23.5	0.02
W594194		15	13.25	55.6	4.84	18.45	0.08	0.5	0.159	2.12	19.5	36.2	1.14	2870	1.85	0.42
W594195		17	14.35	27.5	4.41	17.85	0.09	0.5	0.067	3.02	15.7	13.3	1.11	2960	1.77	0.69
W594196		11	4.40	451	18.25	6.38	0.09	0.1	0.151	0.94	6.6	29.7	1.17	6550	0.91	0.02
W594197		14	14.00	118.5	4.10	17.55	0.08	0.4	0.041	3.42	19.8	15.6	1.30	5230	2.38	0.16
W594198		49	15.85	50.4	4.70	16.50	0.14	0.6	0.056	2.74	22.0	23.0	1.55	4330	2.80	0.39
W594199		2	0.05	1.8	0.11	0.35	0.11	<0.1	<0.005	0.03	1.0	1.3	1.86	110	0.20	0.04
W594200		47	13.05	89.0	6.70	15.50	0.09	0.7	0.108	2.25	19.5	16.6	2.02	3790	1.65	0.83
W594201		64	19.45	46.8	4.82	18.65	0.11	0.8	0.063	2.74	19.9	21.5	1.56	2080	2.16	0.39
W594202		52	15.75	50.2	5.83	14.60	0.10	0.5	0.232	2.08	16.9	23.7	1.83	9010	1.76	0.35
W594203		43	7.91	369	5.99	13.60	0.11	0.4	0.529	2.56	15.5	28.3	1.61	8540	1.50	0.04
W594204		37	8.74	1275	11.50	10.95	0.07	0.7	4.41	1.95	16.3	29.5	0.53	1890	17.25	0.15
W594205		13	11.70	124.0	5.28	16.50	0.07	0.6	0.163	3.06	12.7	21.4	0.45	3560	1.58	0.09
W594206		18	11.55	26.0	7.36	12.45	0.06	0.4	0.116	1.54	17.3	24.3	1.76	3890	1.49	0.12
W594207		18	15.95	25.6	4.53	14.75	0.06	0.5	0.045	2.16	16.4	25.7	1.46	20300	2.49	0.03
W594208		18	15.45	24.6	4.47	14.60	0.09	0.5	0.047	2.11	16.1	25.4	1.45	20000	2.47	0.03
W594209		10	6.16	2420	9.80	7.88	<0.05	0.3	0.255	1.33	7.3	28.5	1.93	28800	1.49	0.02
W594210		25	17.15	51.9	4.69	18.55	0.08	0.5	0.119	2.56	19.5	36.8	1.76	8220	2.20	0.05
W594211		25	12.05	21.6	4.28	18.80	0.10	0.6	0.077	1.01	17.8	57.5	1.36	3960	1.89	0.03
W594212		15	25.6	14.7	4.26	15.70	0.10	0.5	0.048	2.40	16.4	24.8	2.01	10950	1.73	0.04
W594213		14	19.70	26.8	4.96	15.70	0.10	0.5	0.078	2.68	20.5	25.1	1.83	5850	1.36	0.23
W594214		15	18.75	62.9	4.33	17.15	0.13	0.5	0.057	2.99	20.6	29.3	1.53	2830	2.45	0.16
W594215		16	9.00	15.5	4.85	18.80	0.12	0.6	0.057	2.04	17.7	16.4	1.68	2650	2.39	1.72
W594216		11	10.45	13.2	5.31	12.05	0.07	0.3	0.053	2.22	17.0	28.1	1.88	9240	1.75	0.04
W594217		13	21.0	17.3	4.96	16.90	0.07	0.6	0.071	3.00	17.7	11.8	1.77	6830	1.86	0.24
W594218		16	14.85	32.3	4.41	16.15	0.08	0.5	0.051	2.45	17.8	26.4	1.85	16150	1.99	0.06
W594219		15	15.15	24.9	4.48	16.35	0.07	0.5	0.054	2.42	18.3	23.5	1.87	16400	2.10	0.05
W594220		15	14.00	16.7	6.40	20.0	0.12	0.6	0.189	1.82	19.7	19.3	1.83	2840	2.06	1.43
W594221		32	6.99	73.6	5.14	15.55	0.08	0.6	0.098	1.81	19.5	41.7	1.63	6150	4.06	0.04
W594222		14	10.35	11.0	6.77	16.25	0.09	0.6	0.022	3.46	16.4	16.9	2.00	29900	2.22	0.04
W594223		12	14.60	54.3	5.09	15.55	0.08	0.6	0.107	2.04	18.2	20.2	2.13	26500	1.59	0.14
W594224		24	18.75	24.5	4.01	18.25	0.08	0.8	0.066	2.88	21.4	30.7	1.45	4040	1.66	0.12
W594225		17	14.15	20.0	4.64	14.30	0.08	0.7	0.068	3.01	18.3	8.6	2.32	8310	2.04	0.03
W594226		20	6.97	241	9.42	13.05	0.05	0.4	0.547	2.38	12.7	6.2	1.23	5130	1.31	0.02

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W594187		6.5	7.2	970	2360	207	<0.002	2.77	99.1	12.4	1	3.3	210	0.41	<0.05	4.23
W594188		3.4	6.5	560	>10000	123.0	<0.002	10.00	178.0	6.7	<1	8.9	71.7	0.22	<0.05	2.35
W594189		3.1	3.8	560	>10000	126.0	<0.002	>10.0	263	5.9	1	7.6	63.3	0.19	<0.05	2.12
W594190		5.2	6.0	880	>10000	201	<0.002	4.24	106.5	10.3	<1	4.8	93.9	0.34	<0.05	3.86
W594191		6.4	7.2	1010	1420	196.0	<0.002	2.91	172.0	12.5	<1	5.0	352	0.40	<0.05	3.85
W594192		6.4	7.0	910	1245	257	<0.002	3.70	177.5	12.2	<1	6.8	187.0	0.39	<0.05	4.22
W594193		3.1	13.3	260	>10000	91.2	0.002	9.97	642	5.0	1	13.9	80.2	0.25	0.77	5.62
W594194		6.7	7.3	990	316	119.0	<0.002	2.73	55.8	12.9	1	2.2	237	0.41	<0.05	4.44
W594195		6.3	7.0	990	184.0	160.0	<0.002	2.36	35.3	12.0	<1	3.0	286	0.40	<0.05	3.70
W594196		1.9	4.5	290	>10000	65.8	<0.002	>10.0	420	3.8	<1	7.7	107.0	0.12	<0.05	1.31
W594197		6.3	7.1	990	3100	233	<0.002	2.31	48.6	11.9	<1	5.3	150.0	0.40	<0.05	4.55
W594198		5.7	16.5	870	2150	173.5	<0.002	3.08	48.4	15.1	1	4.6	242	0.35	0.11	4.14
W594199		0.1	1.0	50	5.8	1.0	<0.002	0.02	0.26	0.2	1	<0.2	81.0	<0.05	<0.05	0.07
W594200		5.1	18.9	1010	4800	121.0	<0.002	3.97	84.2	16.0	1	5.8	470	0.30	<0.05	3.29
W594201		6.3	22.7	1110	71.2	120.0	0.002	2.32	32.7	17.9	<1	1.3	278	0.37	<0.05	3.88
W594202		4.9	19.5	920	865	114.5	0.002	2.43	52.5	15.0	1	1.6	291	0.27	0.18	3.24
W594203		4.0	17.9	800	>10000	143.0	<0.002	5.11	245	12.7	1	2.8	147.5	0.22	0.08	2.48
W594204		4.1	14.5	380	9190	112.0	0.003	>10.0	242	6.4	1	10.0	88.8	0.30	1.90	6.20
W594205		5.5	4.9	990	>10000	106.5	<0.002	4.92	58.9	17.5	1	2.1	189.5	0.31	0.23	2.92
W594206		3.3	4.0	570	76.8	79.3	<0.002	4.26	21.4	14.4	1	1.0	159.0	0.19	0.59	2.73
W594207		4.7	6.0	770	1170	124.0	0.002	2.82	54.3	15.4	<1	2.1	101.0	0.26	0.08	3.26
W594208		4.7	5.8	780	1140	123.5	<0.002	2.76	52.5	15.1	<1	1.9	99.9	0.27	0.07	3.26
W594209		2.1	2.9	360	>10000	79.1	<0.002	>10.0	1505	5.9	<1	2.5	79.1	0.14	0.27	1.89
W594210		5.8	6.3	910	457	153.5	<0.002	0.82	40.8	21.7	<1	1.1	104.5	0.34	<0.05	4.43
W594211		5.9	6.7	940	62.9	48.7	0.002	0.46	38.2	20.6	1	1.1	115.5	0.34	<0.05	4.54
W594212		4.6	4.4	760	113.5	155.5	<0.002	1.46	27.6	14.6	1	1.7	176.0	0.28	<0.05	4.11
W594213		4.5	5.5	830	206	169.5	<0.002	2.94	41.6	15.5	<1	3.9	190.5	0.27	<0.05	3.57
W594214		5.5	5.1	930	247	212	<0.002	2.14	261	18.1	<1	2.7	209	0.33	<0.05	5.45
W594215		5.8	5.6	1000	42.7	87.0	<0.002	0.46	43.5	18.4	1	1.2	537	0.36	<0.05	4.43
W594216		3.4	3.8	640	889	149.5	<0.002	4.22	52.1	10.7	1	2.5	185.5	0.20	0.13	2.75
W594217		5.1	5.1	890	289	163.5	<0.002	2.84	35.4	16.9	<1	1.0	206	0.31	<0.05	3.74
W594218		5.2	5.1	830	1800	139.5	<0.002	1.65	50.3	15.2	<1	1.2	136.0	0.31	<0.05	4.07
W594219		5.1	5.0	840	2020	141.0	0.002	1.79	45.6	15.2	<1	1.2	129.5	0.31	<0.05	4.07
W594220		5.7	5.8	1020	25.4	81.1	<0.002	0.24	10.85	20.1	<1	1.3	456	0.32	0.07	3.73
W594221		6.2	10.3	760	6990	107.5	0.003	1.43	124.0	9.9	<1	1.0	110.5	0.35	0.08	4.87
W594222		5.0	5.1	940	1470	186.5	<0.002	4.30	24.2	17.6	<1	1.9	94.3	0.27	0.18	3.08
W594223		4.5	4.3	830	1610	117.5	<0.002	2.01	53.3	16.5	<1	1.6	250	0.25	0.13	3.21
W594224		5.9	9.0	860	96.7	178.5	0.002	1.66	32.6	14.4	<1	1.6	197.0	0.36	<0.05	4.68
W594225		4.6	7.8	670	308	199.5	<0.002	3.62	35.3	10.1	<1	8.3	120.5	0.28	<0.05	3.72
W594226		3.5	6.8	520	2140	159.0	<0.002	>10.0	58.2	8.2	1	21.1	57.5	0.22	<0.05	2.86

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195518

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
W594187		0.357	3.29	1.5	99	4.2	15.4	1670	10.1	0.764	
W594188		0.195	2.20	0.9	56	6.5	6.8	>10000	5.7	4.51	2.00
W594189		0.209	2.23	0.7	60	4.2	6.4	>10000	4.9	4.67	1.655
W594190		0.308	4.18	1.4	89	7.7	12.1	6860	8.2	1.580	
W594191		0.369	3.79	1.5	103	4.1	14.4	678	9.2	1.450	
W594192		0.333	5.48	1.6	92	6.6	13.7	2320	9.3	1.390	
W594193		0.108	1.61	7.5	34	4.0	7.2	>10000	17.7	>10.0	1.190
W594194		0.377	3.39	1.7	103	4.6	14.1	7620	9.2	0.683	
W594195		0.369	3.08	1.5	103	3.4	12.8	2370	9.0	0.477	
W594196		0.106	1.43	0.5	32	2.8	4.4	>10000	3.0	>10.0	4.88
W594197		0.355	4.77	1.7	100	6.2	14.0	4270	8.9	0.672	
W594198		0.354	3.42	2.1	121	4.5	16.9	3010	14.4	0.663	
W594199		0.006	0.02	0.2	1	<0.1	1.9	15	1.3	0.007	
W594200		0.410	2.67	1.6	141	7.3	15.2	3060	16.1	2.22	1.240
W594201		0.495	4.70	1.8	166	10.8	18.1	183	22.2	0.042	
W594202		0.385	2.26	1.6	133	4.5	14.5	2480	12.9	0.199	
W594203		0.337	3.46	1.0	118	4.6	15.3	>10000	10.0	>10.0	1.390
W594204		0.148	1.70	4.1	49	4.3	10.0	>10000	22.8	2.89	
W594205		0.451	4.05	1.2	182	4.0	12.4	7490	10.2	0.185	
W594206		0.292	1.93	2.5	141	28.7	14.7	154	7.9	0.044	
W594207		0.378	4.00	1.6	129	23.8	15.7	1600	11.4	0.648	
W594208		0.373	3.86	1.6	127	23.4	15.1	1570	10.1	0.652	
W594209		0.174	2.91	1.0	66	7.5	7.6	>10000	5.3	7.08	
W594210		0.471	3.91	1.9	180	9.7	20.1	769	10.8	0.059	
W594211		0.477	1.67	2.2	172	15.0	19.5	176	13.4	0.010	
W594212		0.364	2.86	2.0	137	3.8	16.6	251	10.7	0.182	
W594213		0.371	3.63	1.4	141	5.4	15.3	615	12.2	0.750	
W594214		0.428	3.84	2.1	157	7.3	18.9	1080	11.8	0.586	
W594215		0.461	2.09	1.6	172	2.2	18.0	142	12.3	0.013	
W594216		0.274	3.19	1.3	107	6.6	15.1	2090	7.1	0.523	
W594217		0.411	5.03	1.5	152	4.1	17.8	577	11.4	0.102	
W594218		0.386	3.75	1.6	142	9.7	17.4	3290	11.1	0.306	
W594219		0.381	3.93	1.5	141	9.5	16.5	3160	11.3	0.352	
W594220		0.458	1.10	1.5	181	6.1	17.9	151	12.3	<0.005	
W594221		0.308	1.96	1.8	96	12.4	13.8	1110	12.8	0.075	
W594222		0.415	5.95	1.2	158	13.6	17.2	1530	12.4	0.179	
W594223		0.398	2.43	1.3	156	2.9	18.5	2060	12.4	0.171	
W594224		0.377	4.05	1.7	122	3.7	15.5	197	16.3	0.118	
W594225		0.285	3.84	1.4	93	6.1	13.9	1300	13.7	0.669	
W594226		0.222	2.45	0.9	74	6.1	10.4	>10000	10.3	2.51	

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Project: Klaza

Finalized Date: 28-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195518

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62

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Finalized Date: 25-OCT-2020
Account: ROCKHA

CERTIFICATE WH20195522

Project: Klaza

P.O. No.: Batch 9

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 25-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195522

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599425		3.97		1.07	8.11	105.0	1130	1.11	0.12	5.35	0.40	43.1	22.2	71	6.89	37.5
W599426		4.67		0.33	8.33	21.9	1250	1.13	0.05	5.89	0.12	42.6	23.0	72	5.44	37.4
W599427		2.61		8.14	8.42	436	1160	1.27	0.06	5.19	0.65	43.6	21.2	73	8.37	61.9
W599428		0.27		10.15	6.85	2090	380	1.38	5.75	1.80	36.9	49.9	11.0	30	16.75	197.5
W599429		3.09		1.47	8.14	39.5	760	1.43	0.11	5.09	0.37	40.6	19.3	68	20.6	22.1
W599430		1.83	1.505	35.2	6.95	233	830	0.97	0.14	7.14	211	41.3	15.5	34	12.85	396
W599431		2.15		14.75	7.91	58.8	1020	1.13	1.20	3.51	2.32	46.7	14.0	38	11.85	387
W599432		2.66		3.21	7.06	192.5	710	1.20	0.25	5.43	2.65	30.1	37.1	13	10.25	43.3
W599433		2.99		0.75	8.58	36.2	670	1.55	0.13	2.72	0.35	38.5	13.6	18	9.03	27.3
W599434		3.81		7.41	5.84	130.5	500	1.43	0.10	7.97	19.60	53.9	6.5	14	8.88	35.9
W599435		3.83		0.29	7.31	12.6	1300	1.52	0.15	3.42	0.19	63.7	7.9	22	7.93	28.7
W599436		2.85		0.42	8.72	15.8	1100	1.19	0.12	5.43	0.74	45.6	21.0	17	13.85	30.9
W599437		2.71		0.49	8.07	18.4	1160	1.07	0.08	5.07	1.35	39.1	20.9	16	7.58	20.2
W599438		3.19		0.90	8.20	133.5	1170	1.11	0.08	4.86	4.08	41.5	20.2	15	5.75	14.2
W599439		4.24		0.22	8.38	8.6	990	1.39	0.07	3.66	0.31	36.1	17.2	15	8.46	22.8
W599440		3.32		3.12	7.55	67.0	2290	1.21	0.17	5.17	8.50	35.8	11.6	12	19.45	41.1
W599441		7.15		0.22	8.50	8.6	1220	1.10	0.17	4.89	0.21	41.5	15.9	17	8.17	21.1
W599442		5.56		0.80	8.24	40.6	1000	1.14	0.19	4.11	0.27	40.4	12.5	16	9.98	14.6
W599443		4.96		0.01	0.15	0.2	20	0.11	0.01	33.2	<0.02	1.06	0.6	1	0.05	1.6
W599444		8.14		0.16	8.64	9.0	1150	1.18	0.07	4.21	0.29	42.6	14.1	18	7.59	17.5
W599445		8.40		0.15	8.41	7.6	1140	1.24	0.12	4.05	0.26	38.8	16.7	20	9.90	15.1
W599446		8.37		0.14	8.58	3.4	1350	1.15	0.03	4.74	0.25	40.3	17.0	20	6.57	17.3
W599447		7.19		0.16	8.72	24.0	1310	1.25	0.03	5.13	0.22	41.8	17.6	20	9.36	43.5
W599448		4.68		0.26	7.97	33.8	960	1.28	0.15	4.82	0.19	36.1	16.4	15	14.05	15.5
W599449		4.34		0.11	8.16	1.6	1030	1.14	0.03	5.07	0.18	37.7	18.2	29	5.40	16.1
W599450		6.43		0.33	7.92	649	1030	1.10	0.08	5.58	0.28	39.0	17.9	28	8.04	26.4
W599451		0.26	1.460	97.0	4.85	4220	1220	0.98	53.4	1.59	207	30.4	60.4	37	9.16	1350
W599452		7.87		0.13	8.10	5.6	1130	1.17	0.05	5.23	0.27	33.7	19.1	31	9.21	17.1
W599453		8.36		0.30	8.24	103.0	1090	1.18	0.11	4.97	0.39	40.9	17.9	26	9.70	24.0
W599454		3.44		0.34	8.11	137.5	1110	1.08	0.15	4.72	0.36	40.2	17.5	25	9.72	24.9
W599455		8.20		0.21	8.55	9.5	1210	1.10	0.06	5.07	0.28	37.7	17.5	20	9.46	19.6
W599456		7.87		0.14	8.52	7.9	950	1.32	0.03	2.88	0.20	34.1	13.8	22	6.92	30.6
W599457		7.42		1.53	8.09	13.6	1150	1.23	0.04	4.77	0.52	37.3	16.7	17	13.55	16.7
W599458		8.61		0.14	8.23	14.4	1250	1.14	0.02	4.82	0.21	36.8	18.1	18	8.66	14.3
W599459		4.89		0.24	8.08	13.0	1140	1.11	0.12	4.92	0.22	39.2	16.2	18	9.71	16.1
W599460		6.25		0.16	8.07	10.1	1120	1.32	0.04	4.68	0.18	36.1	16.3	15	10.70	14.4
W599461		8.29		0.57	7.55	465	960	1.14	0.48	4.62	0.31	37.7	16.0	15	9.09	14.6
W599462		<0.02		0.49	7.90	505	960	1.15	0.46	4.73	0.23	41.7	14.8	16	9.01	14.3
W599463		8.42		0.22	7.93	28.3	1110	1.34	0.31	4.36	0.20	36.8	17.8	17	13.00	17.2
W599464		6.28		0.50	8.43	34.6	1200	1.26	0.22	4.93	0.35	44.7	18.5	17	8.94	31.4

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Finalized Date: 25-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195522

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599425		5.09	18.45	0.09	0.7	0.112	1.85	20.5	17.9	2.33	2830	1.98	1.69	5.9	24.9	1230
W599426		5.20	18.30	0.08	0.6	0.056	1.49	21.1	13.6	2.58	1600	1.89	2.20	6.0	25.7	1230
W599427		4.94	19.20	0.08	0.7	0.058	2.07	21.0	19.1	2.08	1870	1.97	1.77	6.4	24.2	1260
W599428		5.98	14.85	0.07	1.0	0.687	2.91	26.8	37.4	0.76	2060	9.09	0.07	6.2	16.9	530
W599429		4.80	19.05	0.10	0.7	0.071	1.44	18.8	22.4	1.76	2070	1.69	1.36	6.0	21.2	1230
W599430		3.89	16.25	0.07	0.5	0.076	2.24	21.0	15.6	0.88	3130	2.31	0.39	6.0	9.4	770
W599431		4.21	18.00	0.11	0.5	0.071	2.46	22.9	18.7	1.78	1600	1.88	1.35	6.8	8.9	940
W599432		4.36	15.65	0.15	0.6	0.050	2.57	15.4	13.2	0.89	2220	5.43	0.38	6.3	6.5	710
W599433		4.74	20.6	0.16	0.7	0.068	1.54	17.4	31.2	0.84	1870	2.96	0.11	8.6	4.7	1110
W599434		3.37	13.75	0.15	0.7	0.122	2.14	29.1	17.5	1.05	5850	3.01	0.43	6.8	4.7	510
W599435		2.95	17.25	0.20	0.9	0.099	2.90	31.0	14.1	0.93	937	5.78	1.66	8.7	6.2	690
W599436		5.49	19.00	0.16	0.7	0.075	1.82	22.3	16.0	2.22	1510	2.07	2.02	7.1	5.6	1070
W599437		5.85	19.35	0.14	0.6	0.067	1.44	18.5	16.2	2.25	1640	1.79	2.19	6.9	5.9	1210
W599438		5.85	18.60	0.16	0.7	0.066	1.56	18.8	13.4	1.99	1680	1.70	1.96	6.8	5.3	1180
W599439		5.15	20.4	0.16	0.5	0.057	1.33	16.5	21.5	0.91	1720	2.45	0.97	6.7	5.9	1010
W599440		4.24	17.75	0.16	0.5	0.063	2.02	17.2	15.8	0.78	3750	2.15	0.40	5.7	4.8	890
W599441		5.44	19.35	0.17	0.6	0.082	1.38	20.7	14.3	1.90	1840	2.45	2.10	5.3	5.6	1000
W599442		5.32	18.40	0.15	0.5	0.080	1.64	21.0	17.4	1.74	2380	2.14	1.49	5.7	5.2	910
W599443		0.12	0.52	0.09	0.1	0.005	0.04	1.1	1.1	1.56	109	0.05	0.08	0.6	0.4	70
W599444		4.92	19.35	0.15	0.5	0.057	1.44	20.6	13.7	1.60	1220	2.49	1.88	5.8	6.0	1010
W599445		5.31	19.40	0.14	0.5	0.064	1.45	17.7	16.9	1.44	1540	2.11	1.60	5.7	7.1	1020
W599446		5.03	19.50	0.15	0.6	0.056	1.58	19.5	17.0	2.08	1070	1.99	2.67	6.4	6.4	1010
W599447		5.12	19.80	0.17	0.6	0.066	1.62	20.4	12.7	1.68	1220	2.36	2.35	6.3	6.9	1020
W599448		5.54	18.15	0.15	0.5	0.079	1.82	16.8	24.8	1.70	2250	1.97	1.42	5.5	5.5	960
W599449		5.16	18.95	0.17	0.7	0.061	1.45	17.1	15.1	2.33	1080	2.30	2.51	6.1	6.1	910
W599450		5.13	18.50	0.15	0.6	0.066	1.52	19.6	13.4	2.09	1960	2.50	2.01	5.7	6.4	880
W599451		11.75	11.35	0.11	0.8	4.51	1.99	16.4	28.6	0.55	1960	17.40	0.15	4.5	15.4	400
W599452		5.28	19.20	0.13	0.7	0.057	1.54	15.4	14.3	2.12	1100	2.80	2.53	6.3	6.2	950
W599453		5.31	18.55	0.14	0.7	0.075	1.79	20.1	15.9	2.08	1860	2.50	1.95	5.7	6.7	910
W599454		5.26	18.85	0.14	0.7	0.075	1.83	19.6	16.2	2.05	1880	2.54	1.93	5.7	6.8	900
W599455		5.31	19.95	0.14	0.7	0.061	1.68	17.2	18.0	2.06	1300	2.30	2.53	5.9	6.7	1050
W599456		5.03	19.85	0.16	0.7	0.054	1.36	15.1	25.4	1.17	1380	2.02	1.07	6.2	5.4	1020
W599457		5.28	19.20	0.14	0.6	0.058	1.66	17.4	13.9	1.79	1410	1.57	2.12	5.8	5.6	1000
W599458		5.19	19.70	0.16	0.6	0.062	1.67	16.9	13.6	2.05	1220	1.62	2.39	6.3	6.0	1020
W599459		5.35	18.85	0.16	0.6	0.066	1.88	19.0	15.5	1.90	1740	1.72	1.87	5.7	5.9	960
W599460		5.05	18.25	0.16	0.6	0.060	1.83	17.7	13.5	1.79	1240	2.08	1.91	5.7	5.1	970
W599461		5.14	18.05	0.17	0.5	0.067	1.75	18.3	15.1	1.80	2010	2.01	1.58	5.5	5.3	950
W599462		5.21	17.65	0.18	0.5	0.067	1.79	20.5	15.3	1.86	2090	2.02	1.57	5.5	5.0	950
W599463		5.45	19.25	0.17	0.6	0.067	1.61	16.6	26.0	1.93	1870	2.14	1.10	6.1	5.8	1060
W599464		5.32	19.85	0.18	0.6	0.067	1.73	22.2	12.5	1.94	1610	2.19	2.13	6.0	5.8	1020

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 25-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195522

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599425		14.9	67.1	<0.002	0.24	16.10	20.1	<1	1.3	751	0.32	<0.05	3.31	0.495	1.38	1.2
W599426		12.1	51.4	<0.002	0.18	6.93	20.3	1	1.1	902	0.32	<0.05	3.34	0.491	1.27	1.2
W599427		27.3	78.3	<0.002	0.35	17.85	21.2	1	1.2	772	0.36	0.07	3.68	0.512	1.54	1.3
W599428		1790	172.5	<0.002	3.51	51.0	9.0	<1	6.0	82.2	0.47	0.21	9.92	0.217	2.55	4.0
W599429		28.9	58.6	<0.002	0.15	12.45	20.2	<1	1.2	627	0.34	<0.05	3.23	0.489	1.16	1.2
W599430		6900	123.0	<0.002	2.23	31.7	15.8	1	1.2	318	0.38	0.13	5.00	0.361	2.57	1.9
W599431		106.5	104.5	<0.002	1.02	65.2	16.3	1	2.1	473	0.43	0.56	6.06	0.398	1.74	2.3
W599432		180.5	129.0	<0.002	2.84	15.80	15.7	1	1.3	248	0.43	0.17	9.09	0.339	2.08	3.2
W599433		30.8	57.4	<0.002	0.48	14.50	25.4	1	2.0	177.0	0.50	<0.05	5.74	0.536	1.07	2.1
W599434		635	120.5	<0.002	1.00	14.75	6.8	1	2.8	244	0.46	<0.05	9.37	0.211	1.64	3.3
W599435		24.7	119.5	0.002	0.08	5.19	9.7	<1	1.4	395	0.62	<0.05	11.60	0.286	1.28	4.0
W599436		33.7	67.1	<0.002	0.14	2.84	25.1	<1	1.2	707	0.36	<0.05	4.78	0.514	0.79	1.6
W599437		85.1	34.2	<0.002	0.04	16.10	24.5	1	1.1	788	0.34	<0.05	3.29	0.533	0.75	1.2
W599438		219	41.3	<0.002	0.14	9.19	24.0	<1	1.2	712	0.32	<0.05	4.06	0.535	0.95	1.5
W599439		19.0	34.1	<0.002	0.03	8.56	16.8	<1	1.3	321	0.38	<0.05	4.12	0.454	0.59	1.5
W599440		325	87.7	<0.002	0.17	20.0	14.2	1	1.2	204	0.33	0.10	3.95	0.390	1.79	1.5
W599441		16.6	51.3	<0.002	0.06	4.40	18.9	1	1.2	581	0.30	0.11	3.96	0.414	0.58	1.4
W599442		80.6	78.5	0.002	0.52	9.95	16.6	1	1.1	401	0.33	0.12	4.77	0.387	1.31	1.8
W599443		1.2	1.3	<0.002	<0.01	0.06	0.2	1	<0.2	80.6	<0.05	<0.05	0.11	0.006	0.03	0.2
W599444		19.5	53.2	<0.002	0.12	4.25	17.6	1	1.2	534	0.33	<0.05	4.62	0.426	0.64	1.4
W599445		20.1	46.3	<0.002	0.05	6.85	17.0	<1	1.1	469	0.33	0.06	4.39	0.419	0.67	1.6
W599446		16.6	45.3	<0.002	0.02	0.69	17.1	1	1.1	749	0.37	<0.05	4.24	0.462	0.53	1.3
W599447		13.8	67.5	0.002	0.11	6.40	19.9	<1	1.1	615	0.35	<0.05	4.65	0.477	1.26	1.5
W599448		14.7	66.4	<0.002	0.18	8.09	18.1	<1	1.1	452	0.30	<0.05	3.67	0.427	1.46	1.6
W599449		10.7	42.1	<0.002	0.01	0.45	22.5	1	1.1	654	0.34	<0.05	4.58	0.486	0.41	1.5
W599450		17.9	63.2	<0.002	0.39	7.00	21.9	1	1.6	599	0.33	<0.05	4.53	0.452	0.94	2.0
W599451		9710	114.5	0.002	>10.0	249	6.8	2	10.8	94.3	0.31	1.97	5.93	0.151	1.79	4.1
W599452		14.3	40.5	<0.002	0.02	1.80	21.9	1	1.1	738	0.33	<0.05	3.47	0.516	0.58	1.4
W599453		24.5	84.4	<0.002	0.19	5.28	20.7	<1	1.1	573	0.31	<0.05	4.26	0.440	0.93	1.6
W599454		26.6	83.3	<0.002	0.23	5.37	20.2	1	1.2	564	0.32	0.07	4.42	0.430	0.99	1.7
W599455		18.6	57.9	<0.002	0.03	2.79	19.7	1	1.1	773	0.34	<0.05	3.92	0.473	0.76	1.5
W599456		12.0	38.9	0.002	0.02	9.87	20.8	1	1.3	390	0.33	<0.05	3.66	0.494	0.60	1.3
W599457		84.3	66.0	<0.002	0.08	6.32	19.6	<1	1.1	646	0.32	<0.05	4.08	0.452	0.98	1.4
W599458		15.1	59.4	<0.002	0.10	3.01	19.3	1	1.1	691	0.35	<0.05	3.81	0.471	0.88	1.4
W599459		15.9	81.7	<0.002	0.09	5.36	18.3	1	1.1	563	0.31	<0.05	3.92	0.431	1.31	1.5
W599460		14.0	78.4	<0.002	0.06	5.52	17.9	<1	1.4	586	0.33	<0.05	5.28	0.444	1.27	1.9
W599461		21.5	79.5	0.002	0.32	9.42	18.2	1	1.2	496	0.30	0.13	3.81	0.417	1.18	1.4
W599462		18.6	91.1	<0.002	0.32	9.53	19.2	1	1.2	496	0.29	0.13	4.27	0.425	1.17	1.6
W599463		16.0	52.6	<0.002	0.17	16.40	19.9	1	1.2	470	0.34	0.06	4.01	0.477	1.47	1.6
W599464		16.2	80.0	<0.002	0.16	15.35	21.5	1	1.3	610	0.34	0.07	4.86	0.465	1.18	1.8

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 25-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195522

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599425		174	2.0	20.0	127	14.6	0.005
W599426		174	1.3	20.2	92	15.1	<0.005
W599427		177	1.1	20.9	133	19.2	0.018
W599428		67	5.6	11.7	2960	30.3	0.640
W599429		173	2.8	19.4	126	15.5	0.005
W599430		123	2.3	17.9	>10000	11.6	0.088
W599431		137	1.7	18.1	256	10.2	0.032
W599432		128	1.8	14.3	237	14.9	0.041
W599433		211	8.6	18.8	97	15.4	0.010
W599434		59	1.3	18.5	1570	20.5	0.046
W599435		82	1.3	16.9	75	25.5	0.005
W599436		208	1.4	21.5	172	13.6	0.013
W599437		214	0.8	19.3	200	12.5	<0.005
W599438		211	0.9	18.5	357	12.3	<0.005
W599439		156	15.3	18.5	117	11.2	<0.005
W599440		132	1.9	18.5	675	9.6	0.029
W599441		161	2.2	20.5	132	11.9	<0.005
W599442		145	4.5	18.9	144	10.8	0.009
W599443		2	<0.1	2.2	4	1.6	<0.005
W599444		159	2.5	19.4	122	12.0	<0.005
W599445		161	3.8	18.6	150	11.6	<0.005
W599446		162	0.7	20.3	105	11.9	<0.005
W599447		174	1.2	20.3	104	13.2	<0.005
W599448		166	4.2	18.9	125	11.2	0.010
W599449		187	0.7	20.5	92	14.0	<0.005
W599450		178	3.3	20.1	122	12.8	0.088
W599451		50	4.4	10.4	>10000	24.7	2.86
W599452		196	4.4	19.4	105	13.6	<0.005
W599453		169	2.8	19.7	146	14.2	0.037
W599454		165	2.6	19.4	149	14.8	0.040
W599455		175	1.3	18.9	124	13.9	<0.005
W599456		183	14.5	17.9	92	14.2	<0.005
W599457		175	1.1	19.4	141	12.9	<0.005
W599458		175	0.8	19.0	115	13.3	<0.005
W599459		163	2.3	19.1	129	13.6	<0.005
W599460		170	1.1	18.6	107	12.2	<0.005
W599461		162	3.1	18.4	123	11.0	0.045
W599462		162	3.0	19.2	120	10.9	0.048
W599463		186	3.1	18.4	119	12.2	<0.005
W599464		178	1.5	21.4	129	13.1	0.008

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 25-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195522

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE WH20195523

Project: Klaza

P.O. No.: Batch 10

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 27-OCT-2020
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Project: Klaza

CERTIFICATE OF ANALYSIS WH20195523

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599465		7.07		0.13	8.46	13.4	1290	1.18	0.13	5.15	0.27	42.0	17.9	19	10.70	18.7
W599466		6.78		0.34	8.54	11.8	1240	1.25	0.08	4.86	0.25	44.9	17.3	18	7.57	58.8
W599467		6.16		0.34	7.65	10.4	1280	1.25	0.18	4.16	0.99	32.8	15.4	26	8.41	24.0
W599468		7.90		0.24	7.89	7.3	1320	1.27	0.14	4.16	0.48	40.4	16.3	59	7.74	23.0
W599469		0.26		9.32	6.50	1870	530	1.48	5.16	1.72	35.9	43.0	11.2	29	15.90	191.5
W599470		8.04		0.16	8.24	7.9	1350	1.31	0.11	4.80	0.24	39.6	16.5	17	7.53	14.3
W599471		7.73		0.21	7.90	7.9	1080	1.06	0.18	5.53	0.42	34.6	16.0	17	7.82	18.1
W599472		8.30		0.33	8.39	15.7	1030	1.38	0.10	4.86	0.66	38.6	17.4	18	12.75	29.4
W599473		3.62		0.28	7.80	14.8	990	1.23	0.09	4.43	0.40	30.7	15.9	19	11.25	19.6
W599474		5.79		0.25	8.13	14.9	1300	1.24	0.11	4.86	0.36	35.8	15.9	17	9.18	14.8
W599475		7.60		0.40	8.17	18.4	800	1.69	0.19	3.56	0.31	33.9	17.3	31	6.16	24.4
W599476		7.25		0.12	6.68	20.8	190	1.49	0.01	3.71	0.16	29.4	12.4	34	1.42	22.5
W599477		6.87		0.96	8.01	24.6	540	1.97	0.04	3.55	0.48	36.6	11.1	42	4.13	26.6
W599478		8.14		0.32	7.94	27.8	490	1.74	0.03	5.10	0.36	39.5	12.7	41	2.57	23.9
W599479		4.26		2.60	7.07	55.1	300	1.51	0.02	4.28	5.54	35.7	9.8	29	9.01	15.0
W599480		5.20		2.89	8.00	170.5	570	1.68	0.05	3.78	10.45	33.8	17.7	26	15.25	28.9
W599481		6.52		0.15	7.76	4.8	1160	1.16	0.03	5.20	0.26	30.8	18.1	18	4.94	17.3
W599482		5.32		0.01	0.29	0.3	30	0.08	0.01	33.1	0.02	1.51	1.4	3	0.07	1.5
W599483		4.50		1.03	8.25	33.1	1070	1.12	0.27	5.15	4.86	36.2	17.2	14	10.85	19.9
W599484		7.02		1.03	8.51	13.0	1170	1.04	0.26	5.49	0.62	38.4	18.8	18	7.61	32.0
W599485		3.07		2.61	7.89	167.5	730	1.22	0.05	5.92	1.56	34.4	14.6	16	17.05	15.3
W599486		7.06		1.01	8.75	35.9	1120	1.30	0.40	1.99	0.41	34.2	14.1	34	9.52	27.3
W599487		3.03		2.13	7.49	127.5	610	1.22	0.09	4.85	3.90	40.3	18.6	25	14.15	39.9
W599488		0.50	1.495	95.0	4.70	3930	590	0.93	52.8	1.54	199.0	28.5	60.1	37	9.40	1285
W599489		3.03		0.98	8.94	51.7	840	1.55	0.21	1.32	0.81	39.3	17.9	36	12.00	26.0
W599490		5.37		16.35	7.82	448	860	1.32	0.26	2.63	71.3	39.8	12.3	28	14.25	76.5
W599491		5.63		9.62	7.64	370	1230	1.38	0.07	2.85	32.6	34.8	12.1	26	10.25	15.7
W599492		4.79		5.13	8.33	147.5	570	1.58	0.36	3.73	21.3	41.6	13.1	27	17.95	28.2
W599493		4.32		0.72	7.76	41.8	490	1.45	0.19	4.90	0.45	37.1	11.2	25	18.95	20.1
W599494		3.79		0.45	7.34	16.2	640	1.68	0.39	3.66	0.21	57.0	7.0	16	12.70	10.5
W599495		4.79		0.32	6.78	12.0	1780	1.87	0.11	3.51	0.23	44.8	7.1	17	9.87	9.0
W599496		3.02		1.58	7.68	203	780	1.91	0.60	3.31	0.92	35.2	12.0	20	12.65	30.4
W599497		3.43		18.85	7.40	580	560	1.69	0.36	3.31	61.5	34.0	14.7	21	17.95	105.0
W599498		<0.02		18.65	7.91	583	570	1.71	0.35	3.29	56.9	38.5	13.7	19	18.80	94.8
W599499		5.65		0.83	7.99	52.9	1310	1.35	0.35	4.65	0.88	34.3	18.9	19	13.05	53.4
W599500		2.34		0.67	7.75	26.8	1370	1.54	0.15	4.49	0.45	33.5	14.7	16	17.80	17.6
W599501		3.87		2.72	7.92	1840	1510	1.34	0.11	4.08	9.01	33.6	15.9	22	11.85	36.9
W599502		5.12		2.13	7.74	388	1080	1.51	0.13	4.69	1.32	34.4	17.1	21	16.70	29.6
W599503		1.96		0.91	8.17	379	690	1.37	0.12	5.50	1.10	39.0	15.5	20	19.90	21.3
W599504		4.16		0.49	7.63	43.8	1280	1.30	0.20	4.57	0.14	39.2	14.0	19	16.40	27.5

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 27-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195523

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599465		5.30	19.15	0.19	0.6	0.062	1.70	19.9	11.2	2.00	1370	1.86	2.18	6.1	6.0	1050
W599466		5.48	19.80	0.22	0.6	0.069	1.50	21.5	10.3	1.97	1470	2.09	2.38	6.2	6.5	1060
W599467		4.83	18.10	0.14	0.6	0.072	1.68	15.6	14.2	1.71	1380	3.23	2.23	5.8	10.5	960
W599468		4.56	19.45	0.12	0.6	0.060	1.58	19.2	14.5	2.03	1160	2.99	2.49	7.4	25.9	920
W599469		5.74	15.30	0.11	0.9	0.668	2.80	24.9	38.5	0.72	1960	8.62	0.06	6.5	17.2	500
W599470		5.43	19.95	0.12	0.6	0.074	1.46	19.2	14.8	2.03	1480	2.12	2.14	5.9	5.8	1030
W599471		5.10	18.95	0.11	0.6	0.059	1.37	17.3	13.5	1.83	1550	1.96	2.02	5.6	6.2	970
W599472		5.30	20.5	0.13	0.6	0.058	1.51	19.8	16.9	1.84	1710	2.06	1.92	5.9	6.8	1020
W599473		5.18	18.55	0.10	0.6	0.061	1.46	14.4	16.2	1.75	1530	2.48	1.94	5.5	6.1	990
W599474		5.49	19.85	0.12	0.6	0.065	1.55	17.5	13.9	1.82	1600	1.87	2.21	5.7	5.6	1030
W599475		4.49	21.1	0.11	0.5	0.064	0.84	16.1	39.5	1.29	1180	3.55	0.70	7.5	9.8	990
W599476		3.38	16.00	0.08	0.5	0.091	0.26	13.7	61.9	1.23	1740	5.26	0.02	9.2	11.6	710
W599477		4.11	19.55	0.09	0.8	0.066	0.83	18.6	45.6	1.28	2510	3.77	0.05	7.4	11.1	890
W599478		5.26	17.70	0.11	0.7	0.057	0.63	20.6	43.9	1.79	2550	3.80	0.04	6.8	14.3	840
W599479		3.02	16.45	0.11	0.5	0.046	1.31	20.3	52.1	1.57	5370	2.88	0.04	6.2	10.1	710
W599480		4.62	20.4	0.12	0.5	0.048	2.71	16.2	25.8	1.44	6380	3.21	0.04	6.1	8.6	990
W599481		5.23	20.5	0.11	0.6	0.055	1.42	14.1	12.6	2.08	1210	2.01	2.42	6.1	5.7	1070
W599482		0.28	0.90	0.07	0.1	<0.005	0.06	1.4	1.4	1.58	119	0.07	0.10	0.4	1.6	70
W599483		5.53	20.3	0.11	0.7	0.106	1.60	18.2	10.0	1.85	1820	1.80	2.06	5.9	5.5	1050
W599484		5.60	20.9	0.11	0.8	0.071	1.60	19.1	8.7	2.23	1350	2.03	2.36	6.2	5.9	1070
W599485		4.72	18.45	0.11	0.5	0.045	2.31	17.5	10.3	1.69	5070	2.05	0.97	5.4	5.3	890
W599486		4.39	22.2	0.14	0.5	0.061	1.93	15.5	22.6	0.78	1720	2.48	0.47	7.2	7.1	950
W599487		3.73	17.75	0.10	0.5	0.046	2.79	21.4	14.2	1.54	3770	2.29	0.04	6.1	9.4	790
W599488		11.60	11.95	0.11	0.7	4.39	1.95	14.8	26.0	0.52	1900	16.95	0.15	4.6	15.6	400
W599489		4.08	21.9	0.12	0.6	0.059	2.16	19.0	25.7	0.62	2210	2.45	0.16	7.5	8.7	970
W599490		5.34	19.15	0.13	0.6	0.055	3.18	21.1	11.5	1.38	8290	2.49	0.48	6.9	7.2	860
W599491		5.29	19.10	0.12	0.5	0.034	3.86	17.2	7.4	1.50	15950	2.18	0.04	6.3	6.7	860
W599492		4.33	21.1	0.15	0.5	0.054	3.43	21.2	13.9	1.48	8630	3.31	0.49	7.1	7.2	920
W599493		3.54	18.90	0.12	0.6	0.051	2.32	18.9	51.6	1.55	3230	2.40	0.09	6.7	6.7	870
W599494		2.57	18.75	0.14	4.0	0.028	2.70	31.5	78.7	1.19	929	1.46	0.08	10.6	6.2	1210
W599495		2.59	19.50	0.15	4.0	0.025	2.70	23.5	67.9	1.14	700	0.90	1.01	10.8	6.7	1170
W599496		3.59	20.7	0.14	1.4	0.067	2.86	16.3	43.4	0.95	3020	2.81	0.07	8.2	6.3	1010
W599497		4.76	18.70	0.13	0.6	0.072	3.14	16.0	48.2	1.17	8800	3.87	0.06	6.1	6.2	850
W599498		4.68	18.65	0.14	0.6	0.076	3.20	20.2	47.9	1.22	8810	6.95	0.06	6.2	6.0	830
W599499		5.34	21.2	0.13	0.6	0.092	1.93	15.0	19.1	1.96	2150	2.10	2.41	6.7	6.4	990
W599500		4.32	18.90	0.12	0.6	0.060	2.03	16.7	79.8	1.44	2400	2.50	1.14	6.0	5.3	890
W599501		4.64	19.30	0.11	0.7	0.051	2.92	16.0	15.1	1.56	3080	4.55	1.41	6.4	9.4	920
W599502		4.56	19.45	0.11	0.8	0.047	2.86	16.9	29.6	1.45	2890	1.84	0.82	6.5	9.8	930
W599503		4.42	18.80	0.14	0.7	0.051	3.26	20.9	27.2	1.58	3890	1.49	0.23	6.1	9.0	890
W599504		4.24	17.85	0.20	0.7	0.058	3.02	20.2	54.2	1.50	2850	1.25	0.54	5.8	9.2	880

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195523

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599465		15.1	68.2	<0.002	0.08	9.41	20.1	<1	1.2	664	0.33	<0.05	3.79	0.470	1.00	1.3
W599466		17.3	58.8	0.002	0.09	6.02	20.9	1	1.1	676	0.32	<0.05	4.26	0.468	0.83	1.5
W599467		36.2	52.3	<0.002	0.05	5.25	15.7	1	1.0	625	0.33	<0.05	4.01	0.385	0.93	1.6
W599468		39.3	55.9	<0.002	0.04	2.62	16.6	<1	1.0	659	0.47	<0.05	6.69	0.399	0.61	2.2
W599469		1760	166.0	<0.002	3.39	50.8	9.2	<1	6.1	78.2	0.50	0.27	10.90	0.205	2.49	4.1
W599470		20.2	53.2	<0.002	0.05	4.77	19.5	<1	1.1	612	0.34	<0.05	4.29	0.460	0.64	1.3
W599471		22.7	47.5	<0.002	0.07	4.38	17.4	<1	1.0	633	0.34	0.05	4.29	0.437	0.52	1.4
W599472		34.8	58.5	<0.002	0.07	6.33	19.0	<1	1.1	570	0.34	<0.05	5.00	0.440	0.76	1.5
W599473		29.7	42.9	<0.002	0.06	5.83	17.1	<1	1.2	558	0.32	<0.05	4.05	0.431	0.68	1.2
W599474		27.8	51.2	<0.002	0.07	5.83	19.0	<1	1.1	640	0.32	<0.05	4.35	0.456	0.63	1.4
W599475		21.9	14.7	0.003	0.12	28.6	16.7	<1	1.1	291	0.44	<0.05	4.92	0.439	0.34	1.7
W599476		9.4	2.6	0.005	0.11	52.3	9.3	<1	1.1	119.0	0.44	<0.05	4.58	0.346	0.23	2.1
W599477		40.3	19.5	0.003	0.16	30.0	11.6	<1	0.8	141.0	0.45	<0.05	5.47	0.345	0.66	2.0
W599478		14.5	13.8	0.004	0.21	44.0	11.4	<1	0.7	164.0	0.40	<0.05	6.07	0.333	0.53	2.6
W599479		272	72.9	0.002	0.24	36.8	10.0	<1	0.6	130.0	0.37	<0.05	5.70	0.283	2.04	2.1
W599480		262	115.5	0.002	1.81	25.1	17.4	<1	1.1	120.0	0.35	<0.05	4.22	0.441	4.63	1.8
W599481		14.4	28.5	<0.002	0.02	2.28	19.1	<1	1.0	710	0.33	<0.05	3.51	0.487	0.55	1.2
W599482		0.9	2.3	<0.002	<0.01	0.11	0.7	1	<0.2	87.1	0.05	<0.05	0.15	0.024	0.03	0.3
W599483		150.5	62.7	<0.002	0.31	10.40	20.5	<1	1.2	673	0.33	0.05	4.15	0.492	0.85	1.4
W599484		89.8	63.3	<0.002	0.14	7.64	22.0	<1	1.2	699	0.33	0.07	4.70	0.518	0.79	1.4
W599485		97.8	133.0	<0.002	1.48	16.15	17.7	<1	1.6	421	0.31	<0.05	3.92	0.425	2.49	1.4
W599486		37.6	73.7	<0.002	0.34	12.90	15.4	<1	1.7	233	0.43	<0.05	5.17	0.403	1.32	1.6
W599487		183.5	174.5	<0.002	1.09	26.4	13.6	<1	1.1	165.5	0.37	<0.05	5.35	0.330	2.55	1.7
W599488		9460	115.0	0.002	>10.0	247	6.9	2	10.4	89.6	0.32	2.01	7.01	0.146	1.77	4.4
W599489		54.0	108.0	<0.002	0.42	17.15	16.8	1	1.6	128.0	0.44	<0.05	5.90	0.404	2.04	1.6
W599490		3620	181.5	<0.002	2.61	29.4	14.2	1	2.4	215	0.39	0.05	5.64	0.348	4.14	2.0
W599491		1600	193.0	<0.002	2.69	20.6	12.7	<1	2.1	94.9	0.38	<0.05	4.73	0.347	5.51	2.0
W599492		1005	188.0	<0.002	1.63	17.90	14.2	<1	1.6	209	0.44	0.10	5.91	0.365	4.38	2.1
W599493		35.7	103.5	<0.002	0.37	16.50	12.5	<1	1.2	220	0.40	<0.05	5.13	0.358	2.79	2.2
W599494		12.0	108.0	<0.002	0.34	16.55	5.5	<1	1.6	149.5	0.66	<0.05	8.99	0.325	2.03	4.0
W599495		14.6	98.2	<0.002	0.08	13.05	5.2	<1	1.5	175.5	0.67	<0.05	7.87	0.323	2.18	3.5
W599496		62.8	97.9	<0.002	0.84	22.3	13.2	<1	1.4	182.5	0.55	<0.05	5.80	0.407	3.28	2.5
W599497		4150	155.0	<0.002	1.93	43.2	15.9	<1	4.9	131.5	0.39	<0.05	5.02	0.396	4.28	2.1
W599498		4110	192.0	0.008	1.89	41.3	15.9	<1	4.7	131.5	0.38	<0.05	5.81	0.393	4.17	2.1
W599499		52.2	61.9	<0.002	0.06	17.40	18.6	<1	1.6	683	0.38	<0.05	4.12	0.464	1.53	1.5
W599500		42.9	92.8	<0.002	0.28	9.37	16.5	<1	1.2	394	0.35	0.13	4.33	0.418	2.22	1.5
W599501		486	110.5	0.005	0.95	27.1	14.4	<1	1.3	495	0.38	<0.05	4.75	0.381	2.40	1.8
W599502		64.4	121.0	<0.002	1.41	28.0	14.4	<1	1.2	379	0.39	<0.05	4.48	0.381	3.17	1.8
W599503		24.0	206	<0.002	1.24	19.65	14.6	<1	1.1	243	0.36	<0.05	5.11	0.362	3.71	1.8
W599504		14.5	161.5	<0.002	0.67	18.25	15.3	1	1.0	318	0.35	0.11	5.59	0.356	2.78	1.9

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Finalized Date: 27-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195523

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599465		177	1.0	20.3	124	11.8	0.005
W599466		175	1.0	21.1	126	13.1	0.005
W599467		145	2.5	15.4	236	11.5	0.008
W599468		140	1.4	18.6	141	14.5	0.005
W599469		63	5.2	11.4	2830	28.8	0.592
W599470		180	2.0	18.3	130	12.5	<0.005
W599471		167	1.0	18.7	133	12.8	<0.005
W599472		169	1.5	18.5	167	14.7	0.009
W599473		169	1.4	15.6	159	13.1	0.007
W599474		180	1.6	18.4	156	12.7	0.008
W599475		152	17.9	15.6	117	10.8	0.014
W599476		95	33.1	11.8	123	14.6	0.021
W599477		105	18.5	13.9	142	17.6	0.019
W599478		114	21.0	16.1	149	16.8	0.020
W599479		87	11.4	14.2	446	9.7	0.017
W599480		166	16.7	16.7	833	11.9	0.038
W599481		188	0.7	17.6	110	13.5	<0.005
W599482		5	0.1	3.1	6	3.9	<0.005
W599483		195	1.4	19.4	413	15.8	0.019
W599484		204	0.8	20.9	131	17.5	0.012
W599485		159	2.3	19.0	179	11.3	0.048
W599486		132	8.7	15.4	111	11.1	0.010
W599487		111	3.6	19.1	387	9.3	0.022
W599488		49	4.0	9.5	>10000	22.9	2.79
W599489		130	9.3	15.9	137	11.3	0.010
W599490		110	5.7	12.9	4840	14.6	0.139
W599491		113	7.7	14.5	2300	10.2	0.081
W599492		120	4.6	16.3	1460	10.7	0.057
W599493		114	3.3	15.4	126	16.3	0.015
W599494		59	1.9	10.5	73	170.5	0.008
W599495		59	1.0	8.8	72	168.0	<0.005
W599496		125	5.8	14.0	136	50.3	0.018
W599497		140	6.3	16.2	4370	12.5	0.254
W599498		137	6.0	18.2	3920	12.3	0.377
W599499		173	3.2	18.6	203	12.9	0.024
W599500		154	3.1	16.4	159	11.9	0.010
W599501		128	3.5	14.7	695	15.8	0.152
W599502		127	2.5	14.4	186	17.6	0.059
W599503		121	2.2	15.0	207	16.3	0.087
W599504		121	1.6	15.4	107	16.1	0.015

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195523

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE WH20195524

Project: Klaza

P.O. No.: Batch 12

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 27-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195524

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W599505		3.14				0.16	8.21	14.7	1670	1.28	0.17	4.34	0.08	36.5	13.8	21
W599506		4.23				28.2	8.04	98.2	740	1.22	0.23	3.34	10.40	35.2	13.2	15
W599507		5.03				1.72	8.07	43.3	990	1.29	0.20	4.68	4.37	38.3	14.7	16
W599508		5.29				1.05	8.11	19.2	1210	1.27	0.40	4.67	3.79	38.9	17.0	18
W599509		2.21				8.34	8.45	69.5	1020	1.21	0.36	4.42	43.8	40.5	13.6	20
W599510		0.26				10.20	6.79	2010	920	1.41	5.70	1.76	36.2	42.8	11.4	28
W599511		4.71				1.19	7.56	15.0	1430	1.23	0.38	3.73	3.51	40.3	12.9	26
W599512		3.69				0.76	8.38	14.8	1250	1.20	0.45	4.55	0.92	40.2	16.6	27
W599513		2.08				34.7	7.21	644	740	1.12	0.28	5.18	51.5	34.9	11.6	20
W599514		4.73				0.61	8.00	11.9	1320	1.26	0.46	4.18	1.12	43.5	15.2	28
W599515		2.85				0.92	7.67	27.4	1100	1.27	0.68	4.09	2.10	37.3	15.1	26
W599516		2.13	705	1.355		>100	7.88	556	830	1.20	2.67	3.61	93.1	35.1	14.8	26
W599517		5.30				0.57	0.09	0.6	20	0.06	0.03	34.4	0.10	0.87	1.2	2
W599518		4.48				0.87	8.17	9.2	1610	1.29	0.66	4.33	1.69	39.2	15.3	29
W599519		0.26			1.560	97.5	4.85	4130	2350	0.98	51.0	1.59	204	30.7	61.9	36
W599520		2.67				3.73	7.63	36.1	1240	1.32	0.49	4.12	18.05	45.4	12.1	26
W599521		6.09				0.23	9.91	180.5	1420	1.49	0.09	0.47	1.38	51.4	20.9	16
W599522		3.54				0.24	9.58	48.4	1360	1.55	0.08	1.33	0.78	54.5	16.7	24
W599523		6.46				0.27	8.68	12.0	1250	1.31	0.07	4.05	0.41	44.6	17.4	17
W599524		7.62				0.11	8.21	3.2	1200	1.28	0.06	4.63	0.22	43.2	17.7	16
W599525		8.73				0.12	8.21	2.8	1270	1.21	0.07	4.46	0.20	44.6	17.0	16
W599526		6.40				0.24	8.64	9.0	1210	1.27	0.09	3.98	0.21	42.7	16.9	17
W599527		1.85				0.19	8.13	17.1	970	1.53	0.06	3.44	0.25	40.1	19.2	31
W599528		1.68				0.13	7.54	9.0	840	1.24	0.06	5.40	0.21	38.8	15.3	26
W599529		2.19				0.69	7.97	40.5	1130	1.42	0.08	4.83	0.51	43.5	18.5	27
W599530		2.12				16.80	5.21	2980	490	0.99	0.08	4.75	9.04	26.9	15.0	17
W599531		3.10				2.05	5.54	164.5	390	1.03	0.05	9.02	6.23	26.9	12.7	16
W599532		<0.02				1.88	5.47	160.0	380	1.00	0.05	8.97	6.43	27.8	12.3	14
W599533		2.17				2.82	5.17	180.0	330	1.18	0.05	7.84	23.9	28.7	13.1	14
W599534		2.08				0.28	8.25	41.9	930	1.51	0.07	4.36	0.50	41.5	16.6	27
W599535		2.89				1.11	8.35	260	780	1.12	0.05	6.17	1.07	41.7	18.1	25
W599536		3.50				6.42	7.72	76.7	800	1.30	0.31	6.23	9.04	44.1	13.6	23
W599537		2.94				29.1	3.84	265	320	0.88	0.19	10.45	81.8	24.8	7.2	13
W599538		2.17				2.35	8.66	48.7	1060	1.57	0.65	3.54	8.00	41.6	14.6	23
W599539		2.05				1.24	7.30	291	560	1.50	0.16	3.55	1.92	36.5	17.4	23
W599540		3.91				0.88	7.88	39.9	820	1.30	0.22	3.30	1.00	37.7	14.3	25
W599541		4.42				0.73	8.45	31.8	920	1.37	0.23	3.34	0.69	44.2	17.3	24
W599542		4.31				0.63	7.67	15.7	1030	1.30	0.19	4.18	0.94	37.4	14.2	26
W599543		2.08				0.74	8.13	16.9	1060	1.38	0.20	4.05	0.95	40.7	16.0	26
W599544		2.87				0.59	8.12	13.6	1270	1.38	0.27	3.91	0.87	40.8	15.4	26

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195524

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W599505		13.35	19.9	4.33	17.70	0.23	0.7	0.059	2.85	19.2	18.4	1.64	1970	1.45	0.77	5.8
W599506		12.65	22.7	5.87	17.75	0.18	0.5	0.060	2.56	18.6	54.2	2.28	6570	1.84	0.50	4.9
W599507		10.45	22.4	5.40	18.40	0.18	0.5	0.078	2.41	19.3	21.7	2.02	4520	1.86	1.27	5.3
W599508		12.25	35.0	5.29	19.95	0.20	0.6	0.076	1.78	19.4	16.8	2.16	2120	2.10	2.45	6.1
W599509		11.65	31.7	5.01	18.40	0.21	0.5	0.077	3.05	21.6	22.1	1.69	3290	2.39	1.12	5.9
W599510		17.05	195.5	5.97	14.40	0.15	0.9	0.670	2.93	24.3	41.2	0.75	2020	8.29	0.07	6.2
W599511		10.70	21.9	4.02	17.85	0.20	0.4	0.053	2.03	19.8	14.9	1.55	1820	2.01	2.46	6.4
W599512		10.40	30.7	4.72	19.50	0.20	0.5	0.072	1.76	20.3	15.6	1.92	1700	1.70	2.59	6.3
W599513		11.75	46.0	5.28	15.90	0.15	0.4	0.070	2.71	19.0	12.2	1.57	10250	1.41	0.66	4.9
W599514		8.74	49.8	4.41	19.45	0.19	0.5	0.077	2.01	21.7	16.6	1.73	1820	1.86	2.72	6.6
W599515		12.65	24.0	4.53	18.60	0.19	0.6	0.079	2.03	17.7	17.7	1.99	2820	1.31	2.37	5.9
W599516		11.00	1765	4.96	18.05	0.19	0.6	0.139	2.89	17.5	12.4	1.34	6330	1.57	0.95	5.7
W599517		0.05	4.4	0.10	0.28	0.05	0.1	<0.005	0.03	1.1	1.3	1.64	99	<0.05	0.04	0.2
W599518		8.13	23.9	4.57	18.55	0.14	0.7	0.067	2.02	19.8	15.0	1.96	1790	1.63	2.62	6.2
W599519		9.78	1325	11.90	11.25	0.08	0.7	4.51	2.03	15.4	28.5	0.55	1970	16.50	0.16	4.4
W599520		9.99	49.5	3.90	17.80	0.14	0.7	0.077	3.10	23.5	10.8	1.38	3160	3.13	1.36	7.8
W599521		9.35	39.9	4.86	21.8	0.15	0.5	0.061	1.10	26.4	34.7	0.20	2890	4.92	0.21	8.2
W599522		13.35	33.0	4.90	22.3	0.17	0.6	0.058	1.47	27.0	23.5	0.63	1540	2.65	1.04	7.6
W599523		9.42	32.8	5.02	20.8	0.19	0.5	0.055	1.59	21.4	14.2	1.59	1310	2.37	2.45	7.0
W599524		4.57	38.9	4.99	20.7	0.18	0.6	0.057	1.50	20.4	13.7	1.93	1000	1.99	2.79	6.9
W599525		4.04	28.5	4.97	20.3	0.16	0.5	0.058	1.55	21.4	11.8	2.01	951	1.79	2.82	6.9
W599526		9.25	40.8	4.96	20.2	0.22	0.5	0.060	1.64	21.0	15.3	1.73	1140	2.23	2.61	6.8
W599527		18.95	32.6	4.61	20.3	0.20	0.5	0.057	1.71	19.2	25.5	0.96	1440	2.58	0.93	6.2
W599528		33.8	34.2	4.30	18.70	0.19	0.5	0.060	1.35	18.8	24.9	1.37	1220	1.87	1.23	5.9
W599529		14.25	28.2	4.41	19.40	0.20	0.6	0.061	2.03	21.3	14.9	1.48	1840	1.96	1.59	6.7
W599530		24.8	24.5	4.12	11.65	0.16	0.3	0.057	2.06	14.4	24.1	1.61	4990	2.36	0.07	3.7
W599531		25.5	52.2	3.62	12.85	0.11	0.3	0.035	2.13	13.4	18.0	3.31	5510	1.44	0.03	3.8
W599532		25.5	44.2	3.59	13.00	0.08	0.3	0.036	2.13	14.0	18.7	3.32	5490	1.15	0.03	3.8
W599533		40.2	39.4	3.12	12.45	0.07	0.3	0.055	1.83	15.3	27.6	2.63	5100	1.16	0.03	3.8
W599534		16.10	29.9	4.38	20.1	0.16	0.6	0.060	1.55	20.1	38.2	1.32	1890	1.75	0.89	6.6
W599535		12.65	28.6	4.87	18.00	0.18	0.6	0.052	2.14	21.1	25.4	2.37	2280	1.83	1.19	5.6
W599536		15.55	58.9	3.69	16.00	0.18	0.6	0.077	2.75	24.1	13.9	2.09	5700	7.34	0.34	6.0
W599537		14.05	59.1	4.96	8.15	0.05	0.4	0.104	1.54	13.2	11.2	3.24	27700	2.35	0.04	2.9
W599538		17.60	22.4	4.55	19.35	0.18	0.7	0.094	2.30	21.0	17.8	1.37	4360	3.69	1.00	6.3
W599539		20.6	51.6	3.21	18.15	0.14	0.8	0.070	2.03	18.3	31.2	0.98	12600	7.02	0.11	6.3
W599540		13.20	77.0	3.76	19.35	0.13	0.8	0.073	1.72	17.9	26.9	1.08	2570	11.75	0.07	6.4
W599541		15.35	71.2	4.38	19.60	0.11	0.8	0.079	1.98	21.8	25.8	1.37	2330	9.19	0.40	6.3
W599542		18.05	70.9	3.95	18.85	0.11	0.7	0.078	1.94	17.4	22.8	1.32	1580	5.72	1.04	6.1
W599543		20.2	87.1	4.12	20.2	0.13	0.7	0.084	2.04	19.6	23.5	1.30	1550	5.71	1.10	6.5
W599544		13.90	59.5	4.22	19.60	0.13	0.7	0.064	1.90	19.3	13.3	1.48	1280	3.55	2.65	6.4

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Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195524

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W599505		9.4	840	12.9	159.5	<0.002	0.31	17.35	13.8	<1	1.0	350	0.36	0.05	5.12	0.362
W599506		5.3	870	8230	150.5	<0.002	0.88	42.3	17.9	<1	1.8	256	0.30	0.06	4.33	0.408
W599507		5.6	980	334	119.5	<0.002	0.45	16.65	19.2	<1	1.6	427	0.31	0.05	4.42	0.449
W599508		5.9	1020	228	69.2	<0.002	0.09	11.80	21.3	<1	1.2	654	0.36	<0.05	5.33	0.479
W599509		6.5	960	1940	156.5	<0.002	1.15	22.8	16.5	1	2.4	391	0.37	<0.05	5.16	0.420
W599510		16.6	520	1790	164.5	<0.002	3.49	46.6	8.8	1	6.1	78.9	0.48	0.20	10.90	0.214
W599511		6.2	820	200	72.8	<0.002	0.09	11.60	13.9	1	1.1	619	0.42	<0.05	6.21	0.360
W599512		7.7	920	48.6	74.5	<0.002	0.12	5.45	16.9	<1	1.2	642	0.38	0.05	5.34	0.420
W599513		6.1	750	1550	161.0	<0.002	3.21	39.1	12.4	<1	2.0	311	0.31	0.29	4.73	0.320
W599514		7.0	890	62.1	79.5	<0.002	0.05	4.87	15.7	1	1.0	656	0.40	<0.05	6.17	0.395
W599515		6.2	860	177.5	77.7	<0.002	0.08	7.27	17.5	<1	1.1	598	0.39	<0.05	5.95	0.405
W599516		6.1	820	>10000	124.5	<0.002	3.24	1475	15.1	1	3.6	308	0.37	0.34	5.60	0.397
W599517		0.5	60	9.2	0.8	<0.002	0.01	1.18	0.2	1	<0.2	82.1	<0.05	<0.05	0.08	0.005
W599518		6.2	870	121.0	71.8	<0.002	0.06	3.68	16.0	1	1.0	697	0.44	<0.05	7.18	0.408
W599519		15.1	380	9580	115.5	0.002	>10.0	244	6.4	2	10.4	94.5	0.33	1.97	7.12	0.153
W599520		8.7	810	899	127.0	<0.002	0.59	14.60	12.4	1	1.1	396	0.58	<0.05	9.50	0.364
W599521		10.2	1330	18.0	31.1	<0.002	0.01	32.5	16.1	<1	1.6	145.0	0.46	<0.05	6.08	0.518
W599522		9.6	1360	21.3	44.6	<0.002	<0.01	17.90	16.6	<1	1.4	358	0.46	<0.05	6.60	0.513
W599523		8.7	1270	16.1	41.1	<0.002	0.01	4.14	15.5	1	1.2	771	0.41	<0.05	5.01	0.494
W599524		8.8	1210	14.0	32.8	<0.002	0.02	0.73	15.2	<1	1.2	850	0.42	<0.05	4.74	0.476
W599525		8.4	1220	13.4	34.5	<0.002	<0.01	0.51	15.9	<1	1.2	875	0.41	<0.05	4.98	0.471
W599526		8.1	1220	14.6	51.2	<0.002	0.05	2.32	14.7	1	1.2	748	0.42	<0.05	5.08	0.475
W599527		12.9	1170	12.1	54.8	<0.002	0.12	20.6	19.5	1	1.4	372	0.38	<0.05	4.33	0.498
W599528		11.2	1090	10.1	40.1	<0.002	0.01	17.30	18.3	1	1.3	434	0.33	<0.05	3.99	0.468
W599529		11.9	1130	35.4	66.5	<0.002	0.32	11.15	19.9	1	1.2	649	0.39	<0.05	4.83	0.514
W599530		9.6	470	3900	108.0	<0.002	2.33	59.1	10.1	<1	0.9	107.5	0.21	<0.05	2.52	0.286
W599531		10.6	700	346	97.8	<0.002	0.93	23.4	10.4	<1	0.8	194.5	0.23	<0.05	2.77	0.301
W599532		8.3	690	344	100.5	<0.002	0.89	22.3	10.5	<1	0.8	194.5	0.23	<0.05	2.72	0.297
W599533		8.3	640	686	92.6	0.002	0.73	28.6	9.6	<1	0.7	194.0	0.22	<0.05	2.63	0.291
W599534		10.7	1160	26.7	46.5	0.002	0.26	12.70	18.8	<1	1.4	454	0.37	<0.05	4.37	0.517
W599535		12.1	1080	31.6	105.0	<0.002	1.20	7.20	16.3	1	1.5	402	0.33	<0.05	4.00	0.468
W599536		9.4	770	319	139.0	0.002	0.72	21.2	10.5	<1	1.2	315	0.39	<0.05	6.11	0.333
W599537		4.5	400	4460	87.0	<0.002	3.35	43.3	5.5	<1	2.6	252	0.18	0.17	2.75	0.167
W599538		9.2	960	321	101.5	<0.002	0.69	13.00	13.5	<1	1.3	391	0.41	<0.05	5.61	0.404
W599539		9.9	850	71.2	76.4	0.002	1.09	25.0	11.9	<1	1.8	213	0.41	<0.05	4.77	0.371
W599540		12.1	870	54.0	51.7	<0.002	0.22	21.9	14.3	<1	1.1	167.5	0.41	<0.05	5.04	0.363
W599541		11.6	880	40.9	94.2	0.005	0.21	15.30	14.2	<1	1.1	254	0.41	<0.05	5.93	0.365
W599542		9.3	870	57.4	61.9	<0.002	0.07	14.15	13.4	<1	1.1	369	0.39	<0.05	4.45	0.358
W599543		10.5	900	56.7	76.5	<0.002	0.07	14.60	14.2	<1	1.3	381	0.39	<0.05	5.03	0.377
W599544		11.1	870	80.5	72.9	<0.002	0.06	6.11	14.0	<1	0.9	606	0.41	<0.05	5.33	0.366

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195524

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W599505		2.46	1.8	119	1.3	14.0	106	15.3	0.008
W599506		3.35	1.5	151	4.7	16.8	749	9.9	0.051
W599507		2.37	1.6	173	3.0	18.4	429	11.7	0.026
W599508		1.05	1.7	182	2.3	20.5	395	13.7	0.020
W599509		3.23	1.9	149	4.7	17.9	2930	11.0	0.097
W599510		2.43	4.2	65	5.4	11.6	2920	27.4	0.614
W599511		0.93	2.2	116	1.7	18.4	371	9.8	0.011
W599512		0.91	1.8	144	2.3	19.3	201	11.3	0.012
W599513		2.87	1.9	110	3.3	16.2	4090	9.0	0.500
W599514		0.94	2.2	130	2.2	19.6	200	11.1	0.023
W599515		1.27	2.0	143	2.2	20.1	333	13.9	0.018
W599516		2.84	2.0	138	3.7	15.6	5960	14.0	0.449
W599517		<0.02	0.2	1	0.1	2.0	10	1.8	<0.005
W599518		0.85	2.5	140	1.9	19.4	297	16.0	0.009
W599519		1.77	4.6	50	4.3	9.4	>10000	22.0	2.85
W599520		2.98	3.5	116	3.7	17.0	1390	16.6	0.041
W599521		1.61	3.9	163	54.6	23.3	128	10.8	0.012
W599522		0.70	2.6	165	15.4	23.3	114	11.7	<0.005
W599523		0.56	1.6	157	1.6	21.3	112	10.9	<0.005
W599524		0.35	1.3	151	0.5	21.0	102	11.8	<0.005
W599525		0.36	1.3	149	0.4	21.1	101	10.6	<0.005
W599526		0.62	1.5	151	0.6	19.4	105	9.9	<0.005
W599527		0.92	1.7	177	2.7	21.6	101	11.1	0.008
W599528		0.53	1.2	161	14.8	18.7	93	10.1	<0.005
W599529		2.06	2.2	171	3.7	19.8	114	12.1	0.007
W599530		4.17	1.7	98	8.0	11.0	606	7.1	0.206
W599531		2.83	2.5	105	9.9	13.3	479	7.0	0.041
W599532		2.85	2.6	104	10.0	13.7	473	7.6	0.041
W599533		2.50	2.7	98	12.4	14.2	1610	7.7	0.046
W599534		1.64	1.6	171	6.4	19.0	105	12.7	<0.005
W599535		2.76	1.7	156	1.9	19.6	167	12.4	0.013
W599536		3.54	2.0	102	5.5	17.0	785	13.7	0.051
W599537		2.46	1.7	53	6.4	10.7	5750	7.7	0.281
W599538		2.47	2.1	125	5.3	16.1	722	16.9	0.025
W599539		2.66	2.2	111	9.4	15.6	291	17.4	0.067
W599540		1.55	1.7	118	12.0	15.4	208	17.6	0.023
W599541		1.59	1.9	121	6.5	16.6	193	16.3	0.021
W599542		1.07	1.4	119	4.9	15.3	216	15.4	0.021
W599543		1.07	1.6	125	4.6	16.9	222	16.2	0.023
W599544		0.85	1.9	119	2.4	15.7	214	14.9	0.025

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195524

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Ag-OG62	Au-AA24	ME-MS61	ME-OG62
Pb-OG62	Zn-OG62		

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Finalized Date: 27-OCT-2020
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CERTIFICATE WH20195525

Project: Klaza

P.O. No.: Batch 13

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 27-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195525

Sample Description	Method	WEI-21	Ag-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W599545		1.92			1.59	8.43	185.5	970	1.45	0.44	3.57	2.05	43.9	15.2	24	16.85
W599546		4.62			1.29	8.00	233	830	1.29	0.21	4.71	1.29	41.1	14.4	23	14.20
W599547		0.26			10.60	6.74	1990	880	1.48	5.60	1.76	37.0	47.8	11.3	29	17.10
W599548		3.72			3.26	7.79	216	640	1.26	0.13	4.57	4.61	40.1	14.1	22	15.65
W599549		3.53			0.60	8.70	32.7	1080	1.51	0.21	3.22	0.62	41.8	14.0	29	11.75
W599550		3.05			0.38	8.84	68.2	650	1.42	0.20	3.80	0.35	43.6	16.5	26	6.53
W599551		1.47			0.33	8.12	42.3	470	1.47	0.15	4.98	0.50	44.2	17.4	31	6.31
W599552		1.83			7.27	3.15	3380	250	0.71	0.78	9.75	26.8	28.6	7.4	12	9.32
W599553		2.99			5.65	8.48	1350	790	1.46	2.58	2.55	7.70	45.1	10.7	25	17.25
W599554		2.41			3.73	7.21	705	620	1.24	0.52	4.23	7.84	37.9	15.1	20	15.65
W599555		3.14			1.92	7.59	205	570	1.39	0.11	5.34	1.46	38.7	13.5	34	20.0
W599556		1.64			1.71	6.12	472	410	1.34	0.11	6.33	0.80	31.5	9.2	16	18.15
W599557		4.95			0.01	0.10	0.8	20	<0.05	0.02	32.2	0.02	0.94	0.6	2	0.06
W599558		1.79			2.32	7.11	182.0	490	1.31	0.15	4.73	0.60	50.9	13.1	19	20.0
W599559		8.42			0.51	7.82	363	1450	1.11	0.12	4.59	0.29	35.9	10.9	9	14.85
W599560		8.82			0.20	8.87	40.6	1060	1.22	0.41	3.03	0.32	40.1	8.8	6	17.45
W599561		8.34			0.17	8.54	14.0	870	1.39	0.21	2.57	0.10	32.8	10.1	8	12.20
W599562		7.55			1.84	8.51	226	630	1.75	0.39	1.99	0.48	31.1	11.5	6	20.6
W599563		2.17	1230		>100	6.20	914	450	1.09	0.48	3.55	46.6	30.2	6.7	5	15.35
W599564		4.67			5.28	8.26	129.0	970	1.66	0.11	2.49	1.82	32.8	9.1	5	21.9
W599565		2.94			27.0	7.95	410	900	1.56	0.36	2.68	5.18	35.0	10.1	6	20.3
W599566		0.26		1.505	95.4	4.77	4090	1850	0.93	51.1	1.57	199.5	33.0	61.3	36	9.59
W599567		4.20			0.40	8.26	24.8	400	1.67	0.09	2.17	1.47	28.3	9.8	5	14.05
W599568		4.29			0.25	8.13	10.1	1650	1.16	0.25	3.87	0.17	32.0	8.6	8	15.25
W599569		3.53			0.38	8.33	16.8	1820	1.48	0.42	2.73	1.95	34.1	9.7	5	18.70
W599570		4.02			0.13	8.25	12.2	1630	1.27	0.06	3.44	1.22	33.5	10.0	7	14.05
W599571		4.69			12.30	7.79	159.0	2300	1.31	0.12	4.07	0.85	33.3	9.4	6	20.1
W599572		3.78			0.35	8.27	36.9	2300	1.56	0.08	3.58	0.07	34.6	9.8	7	19.20
W599573		1.08			0.40	8.10	40.4	1850	1.57	0.08	3.30	0.09	33.6	9.5	7	19.00
W599574		1.66			1.21	6.87	251	750	1.35	0.27	7.19	0.54	34.2	9.2	9	20.6
W599575		3.94			0.07	8.33	10.3	3090	1.59	0.13	4.68	0.11	38.3	10.9	10	41.6
W599576		2.01			0.22	6.84	37.5	540	1.20	0.10	7.34	0.42	41.8	8.3	5	25.1
W599577		5.60			0.05	8.14	7.6	2310	1.46	0.07	3.61	0.07	39.1	11.1	8	11.55
W599578		4.49			0.12	7.69	48.3	2730	1.48	0.21	3.44	0.28	42.9	9.5	7	15.85
W599579		5.74			0.23	7.56	106.5	1290	1.39	0.40	4.19	0.52	42.1	10.0	5	15.85
W599580		5.42			0.28	7.71	16.8	900	1.31	0.81	3.58	0.12	41.4	14.1	8	15.00
W599581		<0.02			0.29	8.10	16.9	910	1.31	0.86	3.65	0.12	44.2	13.4	7	16.05
W599582		5.04			0.21	7.73	15.5	1250	1.38	0.29	3.59	0.64	38.8	13.8	8	19.00
W599583		4.65			0.21	8.24	78.4	1520	1.38	0.41	4.04	0.50	44.8	11.1	11	19.95
W599584		4.54			0.12	7.60	12.8	1220	1.45	0.11	2.92	0.15	38.5	10.6	8	14.50

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Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195525

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W599545		51.5	4.00	20.0	0.11	0.7	0.082	2.56	20.8	23.4	1.25	6440	3.83	0.52	6.6	9.1
W599546		46.0	4.35	17.90	0.12	0.7	0.071	2.58	20.8	24.8	1.64	5940	3.64	0.22	5.9	10.7
W599547		200	5.94	15.40	0.12	1.0	0.690	2.90	25.3	40.5	0.75	2080	8.55	0.06	6.5	17.3
W599548		42.2	3.97	18.20	0.13	0.6	0.072	3.11	19.8	49.0	1.70	6180	3.42	0.04	6.1	10.0
W599549		92.2	4.41	21.7	0.13	0.8	0.087	2.04	19.1	46.6	1.13	2040	4.51	0.09	7.0	9.0
W599550		64.1	4.10	20.3	0.12	0.7	0.078	1.14	21.5	41.1	1.32	2340	3.87	0.05	6.9	12.5
W599551		36.6	4.26	19.00	0.11	0.7	0.056	1.02	22.1	46.4	1.74	2670	3.51	0.04	6.7	13.1
W599552		12.6	5.69	8.15	0.08	0.3	0.080	1.22	16.1	12.4	3.31	46300	2.79	0.02	2.2	5.3
W599553		36.7	5.37	19.25	0.12	0.7	0.189	3.86	22.7	25.8	1.36	8840	4.44	0.05	6.1	9.4
W599554		43.8	4.65	17.00	0.11	0.6	0.087	2.90	19.4	19.6	1.53	9900	4.91	0.04	5.1	9.4
W599555		19.9	3.79	18.00	0.13	0.6	0.061	3.20	20.2	21.0	1.97	4100	2.62	0.04	5.7	10.5
W599556		8.4	4.47	13.80	0.10	0.4	0.037	2.24	15.3	32.6	2.35	4380	2.64	0.04	4.6	7.3
W599557		1.4	0.20	0.30	0.06	<0.1	<0.005	0.03	1.1	0.9	1.32	106	0.10	0.03	0.3	0.9
W599558		24.2	4.56	16.65	0.10	0.5	0.059	2.79	26.0	36.8	1.77	3490	2.81	0.04	5.2	9.4
W599559		10.8	4.04	17.95	0.12	1.8	0.037	2.15	16.8	10.5	1.37	1480	0.75	0.93	6.9	3.2
W599560		6.4	4.01	18.95	0.13	1.6	0.054	2.14	19.3	26.5	1.02	1320	0.68	0.51	7.2	2.4
W599561		10.0	4.33	19.80	0.10	1.7	0.027	1.72	14.8	25.1	0.83	1050	1.02	0.87	7.3	2.7
W599562		12.5	4.05	18.95	0.10	1.7	0.046	2.80	13.5	27.6	0.64	2370	1.45	0.06	7.2	2.6
W599563		417	5.42	13.20	0.10	1.2	0.101	2.79	15.5	6.5	1.41	5250	1.10	0.04	4.8	2.8
W599564		6.3	3.32	19.35	0.12	1.8	0.032	3.43	15.5	16.0	0.89	3970	0.62	0.06	7.2	2.0
W599565		26.6	4.04	17.55	0.10	1.6	0.046	3.63	16.1	5.8	1.01	3940	3.46	0.06	6.6	2.5
W599566		1300	11.60	12.15	0.11	0.7	4.43	1.99	16.8	26.1	0.54	1970	17.35	0.15	4.6	15.5
W599567		9.4	3.37	19.00	0.09	1.9	0.021	1.33	11.9	46.6	0.63	1710	0.72	0.03	7.5	2.0
W599568		4.5	4.19	18.40	0.09	1.7	0.053	2.03	14.8	14.1	1.04	1230	1.18	1.12	7.1	2.5
W599569		20.9	4.21	18.80	0.11	1.6	0.048	2.73	15.2	16.9	0.93	1690	2.46	0.71	7.2	2.3
W599570		4.4	4.08	18.95	0.10	1.8	0.027	1.62	14.9	14.6	1.08	855	1.13	1.72	7.3	2.7
W599571		15.0	3.62	18.05	0.10	1.6	0.026	2.28	15.2	16.1	0.96	2730	0.87	0.86	7.1	2.1
W599572		9.8	3.63	18.40	0.11	1.7	0.017	1.94	15.9	25.1	0.81	1210	0.62	0.79	7.5	2.7
W599573		8.5	3.49	18.10	0.11	1.6	0.024	2.00	14.9	20.9	0.83	1230	0.45	0.82	7.2	2.4
W599574		6.2	3.94	15.10	0.11	1.1	0.088	2.63	17.0	16.2	2.15	6710	0.68	0.06	5.8	3.2
W599575		9.3	4.43	18.00	0.11	1.4	0.063	1.65	18.0	29.5	1.15	1290	0.47	0.62	7.1	3.2
W599576		13.4	2.90	14.55	0.15	1.6	0.028	2.40	20.3	22.6	0.82	1650	0.43	0.08	6.0	2.0
W599577		8.9	4.45	18.00	0.15	1.8	0.039	1.51	17.6	24.4	1.17	612	0.58	1.52	6.9	2.9
W599578		5.1	3.93	16.15	0.14	1.8	0.037	2.01	20.2	15.8	1.11	1130	0.84	1.14	6.5	2.6
W599579		6.8	4.71	15.40	0.12	1.6	0.089	2.07	20.7	20.0	1.45	2120	0.39	0.81	6.1	2.3
W599580		39.4	5.24	16.70	0.12	1.4	0.070	2.00	19.9	24.8	1.62	1740	1.01	0.89	6.4	3.3
W599581		40.5	5.24	17.55	0.14	1.5	0.073	2.08	22.5	25.5	1.69	1760	1.07	0.90	6.6	3.1
W599582		39.8	4.09	15.95	0.13	1.3	0.020	2.23	18.8	18.5	1.28	711	2.00	1.10	5.1	3.6
W599583		15.2	4.35	17.05	0.15	1.2	0.050	2.64	22.2	19.8	1.16	1170	4.07	0.58	5.8	4.2
W599584		44.3	3.57	16.75	0.11	1.4	0.017	1.79	18.3	28.2	1.09	573	2.66	1.23	4.9	3.4

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195525

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W599545		900	46.4	115.5	0.002	0.90	16.25	14.2	<1	1.4	278	0.42	<0.05	5.46	0.382	2.59
W599546		820	39.5	148.0	<0.002	0.95	21.5	12.6	<1	1.3	253	0.38	<0.05	5.16	0.344	2.72
W599547		510	1805	165.0	<0.002	3.49	49.8	9.3	<1	5.9	80.3	0.52	0.26	11.15	0.205	2.63
W599548		810	164.0	189.0	<0.002	1.48	25.2	12.6	1	1.0	198.0	0.39	0.13	5.05	0.340	3.86
W599549		940	27.3	72.9	<0.002	0.13	24.3	15.4	<1	1.2	216	0.46	<0.05	5.40	0.397	1.24
W599550		960	32.6	43.6	0.002	0.48	45.3	14.3	<1	1.1	166.5	0.44	<0.05	5.75	0.391	3.13
W599551		840	38.3	51.0	0.002	0.42	31.9	13.8	<1	1.0	193.5	0.38	<0.05	5.51	0.340	2.03
W599552		330	851	67.5	<0.002	3.50	33.1	5.2	1	2.1	196.0	0.12	0.36	2.12	0.125	1.82
W599553		860	300	231	<0.002	1.55	26.2	13.8	2	1.3	81.0	0.38	0.99	5.65	0.350	4.60
W599554		750	205	170.0	<0.002	2.65	25.9	11.8	<1	1.0	139.0	0.32	0.30	4.47	0.309	3.89
W599555		800	43.7	196.0	<0.002	0.96	19.45	12.9	<1	1.0	163.5	0.40	<0.05	5.67	0.329	4.71
W599556		630	72.7	132.0	<0.002	2.43	23.3	9.5	<1	0.7	159.0	0.28	<0.05	3.67	0.265	3.78
W599557		70	0.6	1.1	<0.002	0.01	0.09	0.2	1	<0.2	83.0	<0.05	<0.05	0.08	0.005	0.03
W599558		730	46.8	173.5	<0.002	1.86	24.0	11.6	<1	0.9	129.0	0.32	<0.05	4.84	0.297	3.82
W599559		700	11.1	96.8	<0.002	1.41	35.5	12.9	1	1.4	314	0.47	<0.05	5.71	0.370	4.10
W599560		770	13.6	113.0	0.003	0.68	38.0	12.3	1	1.5	186.0	0.51	0.12	6.69	0.372	2.49
W599561		750	15.1	71.9	0.012	0.51	15.00	12.9	1	1.6	261	0.49	0.10	5.79	0.366	1.42
W599562		740	30.0	130.0	0.007	1.51	33.4	11.4	1	1.7	64.7	0.47	0.12	5.68	0.356	3.71
W599563		510	5090	189.0	<0.002	4.88	672	8.2	1	1.8	78.3	0.31	0.19	4.72	0.235	3.46
W599564		730	57.1	190.0	0.004	1.98	20.8	11.2	1	1.5	70.0	0.47	0.05	5.64	0.346	4.83
W599565		680	341	199.5	0.019	3.22	50.3	10.8	1	1.5	64.8	0.42	0.14	5.82	0.322	4.46
W599566		370	9350	114.5	0.002	>10.0	237	6.9	2	10.3	95.6	0.36	2.06	7.08	0.148	1.83
W599567		760	32.7	54.2	0.007	0.50	25.3	10.4	1	1.5	72.8	0.48	<0.05	5.16	0.346	1.88
W599568		740	12.1	92.9	0.006	0.43	8.02	11.4	1	1.3	418	0.47	0.08	5.71	0.353	1.76
W599569		760	19.6	146.5	0.005	0.76	15.55	11.1	1	1.4	288	0.47	0.06	6.04	0.348	2.75
W599570		780	26.2	65.6	0.004	0.28	7.62	11.5	1	1.4	516	0.50	<0.05	5.79	0.363	1.61
W599571		720	211	104.0	0.005	0.86	16.40	11.1	1	1.6	396	0.46	<0.05	5.50	0.343	2.54
W599572		770	14.3	92.3	0.005	0.82	15.05	11.7	1	1.5	340	0.51	<0.05	6.16	0.371	2.22
W599573		740	16.7	97.2	<0.002	0.74	13.75	12.1	<1	1.5	313	0.50	<0.05	5.86	0.363	2.26
W599574		540	22.5	167.5	0.003	2.36	37.3	10.7	1	1.5	194.5	0.41	0.06	5.86	0.271	3.40
W599575		710	9.5	67.8	<0.002	0.34	21.2	14.8	1	1.6	355	0.47	<0.05	6.50	0.369	1.25
W599576		660	15.0	108.0	0.002	0.44	13.50	10.5	<1	2.0	168.0	0.39	0.06	6.30	0.297	2.15
W599577		800	7.6	54.7	0.003	0.39	3.95	17.6	1	1.9	465	0.45	<0.05	6.19	0.415	1.05
W599578		730	12.0	102.5	0.003	0.97	8.10	14.4	1	1.4	395	0.43	0.05	7.03	0.348	2.34
W599579		710	16.8	97.8	<0.002	1.47	12.10	13.4	1	1.5	341	0.40	0.15	6.82	0.329	2.20
W599580		710	12.6	94.9	0.006	1.28	8.47	15.4	1	1.7	331	0.42	0.14	6.67	0.367	1.85
W599581		730	13.0	112.5	0.006	1.30	8.90	17.0	2	1.7	335	0.42	0.18	7.26	0.371	1.97
W599582		720	15.5	124.5	0.008	1.90	7.23	14.9	1	1.6	321	0.34	0.08	6.74	0.319	2.16
W599583		710	15.4	153.0	0.008	1.98	11.00	18.6	1	1.7	303	0.38	0.13	6.61	0.408	2.90
W599584		780	13.5	73.7	0.004	1.60	5.72	14.5	1	1.5	266	0.34	0.05	7.67	0.316	1.67

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195525

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W599545		1.8	121	5.0	15.9	301	16.0	0.054
W599546		1.9	110	8.7	15.4	215	14.7	0.118
W599547		4.5	66	5.7	11.5	2830	27.8	0.599
W599548		1.8	109	5.4	15.4	406	13.7	0.089
W599549		1.7	128	10.6	16.8	211	17.6	0.026
W599550		2.9	125	21.9	16.0	161	15.5	0.029
W599551		2.6	111	19.7	17.3	213	15.1	0.015
W599552		0.9	46	4.7	11.0	1980	5.4	0.711
W599553		1.6	115	7.9	15.5	634	14.0	0.154
W599554		2.3	104	6.8	13.4	606	11.9	0.130
W599555		1.8	109	3.9	14.4	179	12.8	0.027
W599556		1.5	84	5.0	10.6	119	9.9	0.130
W599557		0.3	1	<0.1	2.1	3	1.5	<0.005
W599558		1.9	97	3.5	13.8	122	12.6	0.049
W599559		2.0	130	4.8	14.5	59	64.7	0.684
W599560		2.1	119	3.3	15.9	80	54.6	0.021
W599561		1.9	124	5.8	13.9	59	57.2	0.007
W599562		2.2	111	8.5	13.3	90	57.6	0.014
W599563		1.7	77	5.0	12.0	4140	41.3	4.43
W599564		2.0	108	3.1	15.3	214	60.0	0.052
W599565		2.0	102	4.0	14.7	432	54.9	1.195
W599566		4.5	51	4.4	10.2	>10000	22.5	2.91
W599567		2.4	106	8.7	12.1	167	60.2	0.009
W599568		2.1	111	1.1	14.0	118	58.5	0.005
W599569		2.1	109	1.5	14.1	191	53.7	0.005
W599570		1.9	115	0.9	14.2	255	57.1	<0.005
W599571		2.1	104	1.4	14.3	116	54.2	0.046
W599572		2.1	118	2.1	14.6	50	57.7	0.012
W599573		2.0	115	1.6	13.9	45	56.2	0.012
W599574		2.2	98	2.3	14.2	85	33.6	0.175
W599575		2.1	131	1.0	16.2	71	47.8	0.006
W599576		1.9	113	1.8	16.8	86	65.6	0.015
W599577		1.9	164	1.2	16.1	54	73.8	0.005
W599578		2.2	132	1.7	16.3	98	71.2	0.025
W599579		2.6	124	2.0	15.6	152	62.1	0.121
W599580		2.2	144	1.8	16.8	81	56.6	0.017
W599581		2.4	146	1.8	17.5	82	59.3	0.014
W599582		2.0	137	2.1	16.0	112	51.6	0.018
W599583		1.9	154	1.8	17.0	94	47.1	0.089
W599584		2.0	133	1.6	14.6	81	58.4	0.025

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195525

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Zn-OG62			

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Finalized Date: 29-OCT-2020
Account: ROCKHA

CERTIFICATE WH20195535

Project: Klaza

P.O. No.: Batch 14

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 29-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195535

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
W599585		4.46					0.18	8.02	16.9	1080	1.45	0.10	2.56	1.47	42.8	11.9
W599586		4.69					0.12	7.92	11.3	960	1.33	0.09	1.77	1.23	48.8	10.3
W599587		5.67					0.16	8.01	8.4	380	1.35	0.07	1.35	0.24	28.6	14.5
W599588		5.00					0.23	8.06	9.7	540	1.15	0.24	2.27	0.11	36.2	15.6
W599589		5.40					0.34	8.13	18.6	630	1.02	0.09	2.29	0.07	37.4	11.6
W599590		3.68					0.31	7.49	14.5	300	1.11	0.05	3.13	0.35	35.1	13.6
W599591		3.03					0.58	7.07	34.8	520	1.38	0.24	2.64	4.09	27.2	15.4
W599592		0.26					9.94	6.56	1920	420	1.45	4.82	1.73	34.5	46.2	10.4
W599593		5.37					0.30	8.23	22.0	880	1.57	0.06	2.65	3.18	32.1	17.3
W599594		1.87					0.86	7.10	25.1	620	1.31	0.06	4.98	4.36	33.8	12.2
W599595		4.87					2.16	7.43	46.3	200	1.49	0.08	2.66	1.51	33.8	15.3
W599596		4.71					45.0	8.27	302	510	1.55	0.06	3.17	6.73	39.9	12.2
W599597		4.98					2.83	6.53	190.5	840	1.22	0.44	3.82	0.89	34.7	9.7
W599598		4.46					0.14	8.17	5.5	1110	1.24	0.05	4.15	0.09	40.3	12.0
W599599		4.71					0.11	8.15	16.9	900	1.24	0.07	4.08	0.08	38.8	14.4
W599600		0.26				1.550	95.0	4.73	4050	1140	0.95	51.5	1.56	200	30.0	58.3
W599601		4.60					0.14	8.20	20.3	1020	1.27	0.19	3.88	0.30	39.8	13.5
W599602		4.96					0.06	8.08	4.5	850	1.18	0.04	3.85	0.20	32.5	10.9
W599603		4.66					0.08	8.35	9.0	1830	1.12	0.04	3.57	0.14	33.2	9.5
W599604		3.19					0.32	8.01	64.3	230	1.26	0.07	2.16	0.32	34.4	10.2
W599605		3.40					0.61	6.79	59.9	2110	1.13	0.07	4.00	0.46	51.7	16.7
W599606		5.07					0.61	6.98	52.8	2140	1.31	0.04	3.28	0.50	44.3	10.3
W599607		4.60					0.93	8.18	92.9	1730	1.65	0.03	2.73	0.78	38.7	10.2
W599608		5.02					1.11	7.26	67.9	1850	1.41	0.03	2.94	0.80	35.4	6.7
W599609		4.67					1.30	8.36	71.3	600	1.46	0.04	2.14	0.83	35.2	11.2
W599610		5.35					2.03	8.00	79.5	670	1.66	0.05	2.55	1.00	35.2	13.3
W599611		2.01					2.39	8.09	76.8	1580	1.67	0.04	2.53	1.02	37.1	16.7
W599612		4.70					3.73	7.28	192.0	280	1.64	0.05	4.43	0.65	35.3	12.6
W599613		5.78					3.52	5.26	136.0	580	1.02	0.06	9.20	0.48	26.3	8.1
W599614		<0.02					3.45	5.37	143.0	500	1.08	0.05	9.42	0.48	27.2	8.1
W599615		3.59					2.37	7.75	159.5	500	1.72	0.11	2.88	0.88	39.0	15.7
W599616		3.57					11.25	6.55	258	320	1.41	0.12	2.71	4.21	37.6	13.5
W599617		3.08					27.9	6.45	535	450	1.70	0.51	2.86	24.0	43.1	9.3
W599618		1.88	16.15	581	2.06	1.260	>100	2.16	1090	90	0.50	0.05	6.06	152.0	15.55	4.7
W599619		4.93					0.48	0.34	0.9	50	0.17	0.03	33.2	0.13	1.41	0.6
W599620		3.46					4.95	7.74	114.5	1020	1.39	0.07	4.52	3.35	33.8	16.2
W599621		3.47					0.26	7.30	38.7	420	1.13	0.05	5.66	0.21	35.2	16.4
W599622		1.47					0.50	8.01	42.9	950	1.10	0.06	7.30	0.18	42.9	15.8
W599623		1.58					5.64	6.99	179.5	540	1.36	0.08	5.23	10.10	37.2	18.8
W599624		3.65					0.79	7.58	75.0	1140	1.19	0.10	6.29	0.76	40.1	12.3

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-OCT-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20195535

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
W599585		6	18.95	62.9	3.90	15.75	0.14	1.4	0.010	3.05	21.3	20.9	1.14	631	2.92	0.56
W599586		6	16.30	26.1	3.66	14.65	0.14	1.8	0.012	3.11	25.4	19.0	1.06	619	6.95	0.31
W599587		11	13.35	32.3	5.90	16.75	0.11	1.0	0.010	3.02	14.0	27.6	1.86	726	1.60	0.12
W599588		11	16.00	57.6	5.16	18.45	0.12	1.1	0.013	3.19	17.8	19.1	1.14	848	1.38	0.10
W599589		12	14.35	157.0	3.89	19.70	0.11	1.2	0.010	2.98	17.7	23.0	0.84	888	0.85	0.12
W599590		13	10.60	51.0	4.05	19.30	0.13	1.3	0.006	3.17	15.7	13.3	1.17	1150	0.79	0.12
W599591		13	12.60	32.4	4.98	12.70	0.11	0.8	0.013	3.31	11.7	12.0	1.13	1980	2.81	0.05
W599592		28	17.10	193.5	5.82	13.95	0.11	0.9	0.699	2.82	25.1	42.3	0.73	1970	7.89	0.06
W599593		12	13.80	16.7	5.40	13.55	0.08	1.0	0.007	3.83	14.2	8.4	1.13	2090	2.09	0.06
W599594		10	14.20	34.2	4.50	12.40	0.10	0.9	0.009	3.03	17.3	24.3	2.13	4990	2.92	0.05
W599595		12	19.30	50.4	4.59	15.90	0.10	0.7	0.018	3.46	14.5	13.2	1.06	2380	0.78	0.06
W599596		13	23.3	69.1	4.84	17.05	0.11	0.7	0.016	3.71	19.2	4.6	1.12	7390	0.41	0.04
W599597		8	19.00	14.8	3.96	14.05	0.09	0.6	0.032	2.27	16.7	14.8	1.13	3800	0.36	0.57
W599598		9	14.10	19.0	4.50	19.05	0.13	0.7	0.046	1.61	18.5	17.5	1.45	721	0.55	2.14
W599599		8	18.10	31.3	4.45	18.00	0.14	0.6	0.044	1.77	19.2	19.0	1.34	744	0.35	1.66
W599600		37	9.03	1280	11.65	10.85	0.09	0.7	4.49	1.94	15.9	27.5	0.54	1890	16.05	0.15
W599601		14	19.25	28.5	4.52	18.35	0.12	0.6	0.055	2.13	18.5	18.6	1.22	1290	0.44	1.19
W599602		17	8.23	14.2	4.49	17.80	0.12	0.7	0.036	1.09	14.5	16.3	1.25	659	0.75	2.51
W599603		9	9.92	35.0	4.12	17.80	0.14	0.5	0.021	1.30	15.9	17.2	1.20	703	0.98	2.15
W599604		9	19.05	108.5	4.32	17.20	0.12	0.6	0.015	3.05	15.3	13.0	0.81	623	1.66	0.16
W599605		7	9.86	277	4.27	15.85	0.13	0.9	0.008	2.62	26.4	26.5	1.39	996	4.35	0.08
W599606		5	13.70	111.0	3.29	14.50	0.13	1.0	0.008	2.84	22.7	24.4	1.46	1320	4.69	0.08
W599607		9	15.85	114.5	4.01	18.45	0.13	0.7	<0.005	3.51	19.4	16.3	1.26	1370	2.76	0.08
W599608		5	16.80	126.5	3.46	15.75	0.15	0.8	0.007	3.10	17.3	6.6	1.33	1470	1.32	0.07
W599609		6	18.00	152.5	4.04	17.20	0.12	0.5	0.007	3.65	17.0	6.6	0.99	1080	2.72	0.07
W599610		5	18.05	124.5	4.30	15.75	0.13	0.5	0.006	3.58	16.0	11.2	1.11	1520	2.33	0.06
W599611		4	17.45	140.0	4.53	15.75	0.12	0.5	0.006	3.55	17.6	8.6	1.10	1570	1.24	0.06
W599612		5	16.30	75.8	4.60	14.20	0.10	0.5	0.008	3.28	16.4	14.6	1.36	3100	1.54	0.05
W599613		3	9.57	42.8	3.73	9.87	0.07	0.4	<0.005	2.32	13.3	8.9	2.81	6410	1.98	0.03
W599614		3	9.89	43.9	3.81	10.20	0.09	0.5	<0.005	2.37	13.8	9.2	2.84	6550	1.66	0.03
W599615		5	15.60	118.0	4.18	14.10	0.10	0.5	0.006	3.58	18.8	4.9	1.38	2150	5.75	0.04
W599616		6	13.95	71.4	4.86	13.80	0.09	0.6	0.011	2.96	18.7	6.8	1.18	4130	4.20	0.03
W599617		29	20.5	75.8	3.91	15.35	0.09	1.8	0.086	2.57	22.1	13.3	1.04	6220	23.2	0.07
W599618		10	4.83	661	6.26	5.63	0.06	0.3	0.044	0.90	7.3	11.2	1.89	20000	1.07	0.01
W599619		2	0.18	4.1	0.13	1.09	<0.05	0.2	<0.005	0.17	1.3	1.0	1.59	132	0.07	0.15
W599620		27	19.70	23.5	3.99	18.40	0.09	0.9	0.060	2.78	14.3	8.1	1.39	3000	1.34	1.23
W599621		25	24.8	14.2	3.92	16.20	0.09	0.8	0.055	1.73	16.8	25.6	2.23	1340	6.94	0.08
W599622		25	24.1	20.6	4.39	17.95	0.11	1.1	0.071	2.11	21.1	19.0	1.78	1760	2.54	1.21
W599623		40	19.85	28.5	3.98	15.60	0.08	0.6	0.067	2.85	18.0	10.3	1.50	3770	4.38	0.06
W599624		30	11.25	11.6	4.19	16.55	0.08	0.5	0.056	2.41	19.3	16.1	2.26	5230	1.43	1.31

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Finalized Date: 29-OCT-2020
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Project: Klaza

CERTIFICATE OF ANALYSIS WH20195535

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
W599585		4.7	3.5	790	16.7	138.0	0.007	2.56	8.39	10.0	1	1.8	183.0	0.34	<0.05	10.45
W599586		3.3	3.4	730	11.1	152.0	0.020	2.49	7.33	6.7	2	1.3	115.5	0.26	<0.05	13.50
W599587		2.1	5.2	660	16.9	117.0	0.006	4.02	5.25	13.9	1	1.4	97.3	0.15	<0.05	5.63
W599588		2.5	5.7	650	5.8	154.0	0.005	3.63	6.77	16.0	1	1.2	88.5	0.17	<0.05	5.72
W599589		3.4	5.1	710	5.3	160.0	0.004	2.77	5.81	18.4	2	1.2	84.2	0.22	0.05	6.02
W599590		3.1	7.1	660	4.9	152.5	0.003	3.03	7.83	15.6	1	1.5	201	0.20	<0.05	5.24
W599591		2.8	4.8	610	21.5	149.0	0.017	4.31	16.55	14.8	2	1.9	124.0	0.18	<0.05	4.96
W599592		6.0	16.3	520	1765	161.5	<0.002	3.37	47.3	8.6	1	5.8	79.1	0.43	0.19	10.40
W599593		3.0	5.7	700	19.4	185.5	0.008	4.82	8.45	16.4	1	1.6	147.0	0.20	<0.05	5.22
W599594		3.5	4.5	590	24.8	166.5	0.012	3.43	13.95	13.3	1	1.5	92.0	0.23	<0.05	5.62
W599595		3.2	5.7	660	32.2	165.5	0.007	4.06	19.00	16.9	1	1.3	124.5	0.21	<0.05	5.25
W599596		6.2	4.7	750	410	211	0.003	4.64	64.0	19.1	1	3.7	57.2	0.39	<0.05	6.37
W599597		5.2	2.4	610	26.1	121.5	0.003	2.09	9.40	14.0	1	1.4	212	0.34	<0.05	5.29
W599598		7.0	3.0	770	7.8	65.6	0.006	0.49	2.61	17.8	1	1.8	500	0.44	<0.05	6.31
W599599		6.4	3.1	720	11.3	86.2	0.004	0.90	4.07	16.7	1	1.9	424	0.40	<0.05	6.31
W599600		4.1	14.6	380	9390	111.5	0.002	>10.0	235	6.5	2	9.9	90.9	0.30	2.07	6.42
W599601		6.3	4.2	670	17.9	113.5	0.004	1.03	6.99	17.5	1	1.6	365	0.43	0.06	6.24
W599602		6.4	4.9	660	7.9	35.2	0.004	0.23	1.02	18.5	1	1.4	540	0.44	<0.05	5.36
W599603		5.7	3.1	670	10.9	65.0	0.007	0.56	2.23	17.6	1	1.4	502	0.38	<0.05	5.19
W599604		4.9	3.3	640	16.5	190.0	0.005	3.74	9.74	16.5	1	1.4	317	0.32	<0.05	5.27
W599605		3.2	3.6	620	5.5	165.5	0.030	3.56	35.8	7.2	2	0.9	159.0	0.23	0.05	9.71
W599606		3.5	3.0	600	6.5	176.5	0.007	2.79	32.4	7.8	1	0.8	150.5	0.25	<0.05	8.07
W599607		2.7	3.2	630	10.8	227	0.017	3.66	40.3	17.6	1	1.2	84.5	0.18	<0.05	5.71
W599608		3.3	1.3	590	30.2	207	0.013	3.17	49.8	12.8	1	1.0	143.0	0.21	<0.05	5.33
W599609		2.7	1.7	590	26.7	246	0.025	3.81	59.8	14.8	2	0.9	253	0.19	<0.05	5.43
W599610		2.6	2.0	640	65.4	219	0.015	3.89	51.5	15.4	2	1.2	277	0.19	<0.05	5.73
W599611		2.8	2.0	670	51.6	225	0.013	4.15	60.4	15.3	2	1.3	278	0.20	0.05	6.23
W599612		3.0	4.6	610	45.2	173.0	0.009	4.31	39.6	13.4	1	1.2	133.0	0.23	<0.05	5.92
W599613		2.0	1.6	420	11.5	130.5	0.015	2.98	24.7	8.5	1	1.0	146.0	0.15	<0.05	4.45
W599614		2.1	1.4	440	12.1	134.0	0.015	3.06	25.8	8.8	1	1.1	150.0	0.16	<0.05	4.55
W599615		2.9	2.4	580	36.5	206	0.055	3.78	58.3	13.5	2	1.0	75.6	0.22	<0.05	6.52
W599616		3.3	3.4	540	250	172.0	0.042	4.87	50.4	10.0	2	2.5	71.6	0.24	<0.05	7.48
W599617		9.0	18.0	930	1325	135.0	0.003	3.43	108.0	7.3	1	2.5	114.5	0.62	0.08	8.23
W599618		1.6	3.5	260	>10000	45.2	<0.002	6.46	768	4.1	1	0.9	76.5	0.09	<0.05	1.04
W599619		0.9	0.5	70	13.3	5.7	<0.002	0.02	0.74	0.2	1	<0.2	82.9	0.09	<0.05	0.24
W599620		6.4	10.1	980	174.0	104.0	<0.002	1.02	24.1	14.2	<1	1.5	373	0.39	<0.05	3.40
W599621		5.5	9.6	820	12.9	88.6	0.004	0.43	10.75	13.8	<1	1.4	223	0.31	<0.05	3.37
W599622		6.2	10.0	900	14.0	126.0	0.004	0.62	7.91	15.8	<1	1.4	385	0.35	<0.05	3.85
W599623		5.3	14.4	870	1655	154.0	<0.002	1.45	36.9	14.4	<1	1.2	129.0	0.31	<0.05	3.14
W599624		6.1	11.0	850	35.8	119.0	<0.002	0.69	10.45	13.1	1	1.5	460	0.37	<0.05	5.32

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W599585		0.232	2.25	2.0	103	3.9	15.0	126	58.4	0.038
W599586		0.148	2.07	2.0	69	2.3	14.5	129	71.4	0.024
W599587		0.152	1.48	1.1	91	2.5	12.5	124	41.3	0.035
W599588		0.181	1.99	1.3	123	2.0	15.4	107	40.4	0.031
W599589		0.241	2.62	1.5	147	0.9	14.4	53	47.9	0.041
W599590		0.218	2.71	1.5	131	1.6	15.2	58	51.8	0.027
W599591		0.192	2.26	1.1	116	3.6	10.8	104	33.4	0.021
W599592		0.203	2.32	3.9	64	5.0	11.6	2830	28.3	0.667
W599593		0.213	3.05	1.3	129	3.2	12.7	106	37.2	0.022
W599594		0.234	2.78	1.3	118	3.3	11.8	129	34.8	0.027
W599595		0.236	3.51	1.4	142	2.5	13.4	130	27.9	0.038
W599596		0.410	4.15	1.8	167	13.4	16.0	495	35.4	0.106
W599597		0.312	2.52	1.5	127	2.5	14.2	128	21.1	0.027
W599598		0.413	1.27	1.6	169	0.7	17.6	90	25.9	0.009
W599599		0.388	1.55	1.8	157	1.2	16.9	90	22.4	0.011
W599600		0.146	1.61	4.0	50	4.1	9.8	>10000	22.6	2.90
W599601		0.374	1.87	1.9	151	1.5	17.4	134	20.4	0.017
W599602		0.409	0.86	1.4	168	0.5	15.3	69	21.1	0.006
W599603		0.398	1.26	1.5	163	0.8	15.1	66	15.3	0.009
W599604		0.336	4.85	1.4	145	3.6	13.1	79	18.8	0.047
W599605		0.156	2.92	2.1	68	3.0	13.2	69	41.4	0.045
W599606		0.162	2.93	1.8	68	2.9	12.9	65	41.0	0.030
W599607		0.215	3.81	1.3	125	3.3	11.7	84	23.5	0.047
W599608		0.217	3.88	1.3	100	2.3	12.0	61	36.0	0.051
W599609		0.204	4.67	1.2	106	1.7	12.3	74	18.8	0.048
W599610		0.205	3.87	1.1	124	2.4	14.1	98	12.9	0.044
W599611		0.214	3.92	1.2	122	2.4	14.7	98	14.1	0.043
W599612		0.211	3.50	1.6	116	2.8	13.2	102	15.7	0.098
W599613		0.142	2.14	1.3	78	2.7	11.8	106	10.9	0.079
W599614		0.145	2.19	1.3	80	2.8	11.7	106	11.9	0.083
W599615		0.213	3.79	1.2	111	3.3	14.5	112	14.7	0.047
W599616		0.194	3.28	1.4	86	5.8	12.6	384	14.1	0.110
W599617		0.268	3.49	3.3	69	12.3	9.8	1800	67.0	0.432
W599618		0.099	1.54	0.4	35	11.6	7.9	>10000	6.7	>10.0
W599619		0.005	0.14	0.4	2	0.1	2.8	20	4.6	<0.005
W599620		0.426	3.24	1.3	136	1.7	13.2	343	26.2	0.057
W599621		0.362	1.73	1.5	119	2.5	12.9	90	23.9	0.009
W599622		0.402	2.66	1.6	126	1.3	17.5	118	30.8	0.011
W599623		0.369	3.52	1.1	124	2.0	13.9	610	14.4	0.048
W599624		0.347	1.82	1.7	112	1.6	15.0	142	10.0	0.025

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-OCT-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20195535

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	Au-GRA22	ME-MS61
	ME-OG62	Pb-OG62	Zn-OG62	

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE WH20203576

Project: Klaza

P.O. No.: Rock Batch 1

This report is for 2 Rock samples submitted to our lab in Whitehorse, YT, Canada on 11-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203576

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K293926		1.05	0.88	0.22	1.8	50	0.11	0.12	0.01	0.14	9.33	0.3	18	0.33	5.7	0.35
K293927		0.94	0.60	0.34	1.9	90	0.13	0.11	0.01	0.04	3.63	0.2	34	0.36	5.2	0.35

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203576

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
K293926		0.37	<0.05	<0.1	0.011	0.09	4.2	6.4	0.01	42	15.75	0.01	0.1	0.5	160	47.4
K293927		0.46	<0.05	<0.1	<0.005	0.16	1.9	6.7	0.01	33	15.05	0.01	0.2	0.5	230	15.5

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203576

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
K293926		4.3	0.002	0.03	4.61	0.2	1	0.3	7.1	<0.05	<0.05	0.91	<0.005	0.05	0.5	2
K293927		7.0	0.002	0.03	5.08	0.2	1	0.5	8.9	<0.05	<0.05	0.59	0.007	0.08	0.3	3

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203576

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
K293926		0.6	8.9	12	0.5	<0.005
K293927		1.5	7.1	3	1.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203576

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-21	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-AA24	ME-MS61

ALS Canada Ltd.

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VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE WH20203591

Project: Klaza

P.O. No.: Batch 15

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 11-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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VANCOUVER BC V6B 1L8

Finalized Date: 6-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20203591

Sample Description	Method	WEI-21	Ag-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W599625		4.26			0.16	6.19	40.5	1040	1.21	0.11	0.26	0.30	74.3	2.4	5	7.31
W599626		3.11			0.35	4.96	662	320	1.40	0.12	0.66	0.67	49.8	4.3	9	15.05
W599627		4.66			0.74	7.48	4820	550	1.90	0.12	2.08	0.82	48.9	18.3	22	25.4
W599628		4.37			0.32	7.90	26.0	1000	1.66	0.25	1.92	0.38	46.9	15.0	24	13.35
W599629		4.50			0.09	7.75	36.8	710	1.70	0.10	1.65	0.62	37.4	11.5	24	9.55
W599630		3.98			0.36	6.55	29.5	1390	1.60	0.24	3.07	0.36	52.0	8.9	11	15.60
W599631		4.51			0.23	8.31	16.6	470	1.90	0.17	1.17	0.14	70.9	8.9	12	17.20
W599632		4.33			0.61	8.41	12.0	370	1.65	0.19	1.17	0.17	64.2	12.0	17	9.09
W599633		0.26			10.05	6.87	1845	290	1.55	5.71	1.80	36.2	47.4	11.3	29	17.40
W599634		2.53			0.39	7.87	15.1	870	1.64	0.12	1.59	0.45	63.0	10.3	14	9.46
W599635		2.89			0.14	8.22	13.3	200	1.62	0.12	0.90	0.33	58.8	15.6	18	8.09
W599636		3.97			0.30	8.13	14.5	580	1.68	0.20	0.97	0.46	70.3	10.1	13	9.74
W599637		4.88			0.25	7.47	12.9	2530	1.60	1.58	1.60	0.33	65.0	8.9	19	6.63
W599638		2.25			0.32	7.62	12.4	2180	1.58	1.28	1.61	0.44	65.4	10.0	22	6.28
W599639		5.08			0.18	7.74	12.2	2080	1.60	0.36	1.74	0.08	65.3	8.4	15	7.21
W599640		4.70			0.04	7.61	12.0	1770	1.78	0.32	1.83	0.03	64.4	6.7	16	7.69
W599641		4.30			0.11	7.56	14.6	1310	1.78	0.60	1.04	0.10	51.5	9.5	15	8.83
W599642		4.30			0.06	7.35	11.6	1680	1.74	0.48	1.46	0.04	46.0	7.9	16	8.29
W599643		4.32			0.16	6.91	10.5	1770	1.55	0.51	1.53	0.12	56.6	5.2	9	7.69
W599644		4.24			0.16	7.30	9.4	1180	1.60	0.57	1.42	0.18	70.9	2.3	4	11.45
W599645		5.18			0.78	7.46	676	860	1.81	0.48	1.31	0.45	65.3	6.9	9	18.55
W599646		4.63			0.10	6.97	161.0	870	2.14	0.14	2.23	0.07	52.6	6.0	15	16.75
W599647		3.26			0.29	7.13	170.5	970	2.14	0.13	2.59	0.08	55.5	6.6	15	18.00
W599648		1.79	712		>100	4.92	3140	200	1.09	0.88	1.51	60.3	34.4	5.6	6	12.75
W599649		3.41			58.8	4.35	3210	340	0.83	1.64	1.67	50.3	27.1	4.7	4	7.99
W599650		4.10			41.1	5.07	2680	350	1.26	0.45	1.41	9.13	29.1	4.0	3	15.55
W599651		0.26		1.505	99.0	4.90	4190	340	1.01	51.5	1.59	208	28.9	60.8	37	9.98
W599652		4.36			8.76	6.94	1440	450	1.71	0.66	1.51	5.47	31.7	3.7	5	24.4
W599653		4.40			2.61	7.17	635	290	1.43	0.22	3.02	2.22	42.4	9.3	45	17.45
W599654		4.24			0.32	7.79	43.1	300	1.65	0.20	1.24	0.26	37.3	15.5	126	16.90
W599655		3.44			38.9	7.03	2510	340	1.41	0.29	1.82	25.1	37.3	9.9	14	26.7
W599656		<0.02			39.4	7.01	2530	340	1.36	0.27	1.82	22.8	35.5	9.8	14	26.0
W599657		3.46			0.72	6.13	214	310	1.28	0.12	2.03	0.17	32.2	6.3	7	15.00
W599658		4.14			0.32	8.00	414	440	1.50	0.20	1.52	0.09	36.0	8.6	8	12.95
W599659		3.36			0.08	7.81	51.4	690	1.63	0.08	1.85	0.09	32.1	7.5	8	16.70
W599660		3.38			0.08	7.75	70.2	410	1.63	0.20	1.88	0.18	38.6	6.9	8	14.65
W599661		3.92			97.2	7.06	2700	340	1.17	0.21	2.16	104.0	28.5	5.7	7	18.05
W599662		4.99			0.08	0.13	2.5	20	0.09	0.02	34.3	0.07	1.75	0.9	2	0.15
W599663		4.63			0.83	7.63	164.5	580	1.31	0.46	2.29	0.74	35.7	7.2	7	14.25
W599664		3.56			0.15	7.67	98.1	530	1.36	0.12	3.27	0.07	36.1	5.8	7	14.95

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203591

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W599625		5.1	1.03	12.45	0.09	3.1	0.036	1.47	38.4	50.3	0.18	1310	0.75	0.03	11.5	1.5
W599626		7.2	1.53	9.72	0.08	2.5	0.024	1.71	26.0	51.7	0.27	1880	1.40	0.03	7.5	3.6
W599627		22.4	4.05	17.10	0.12	3.6	0.061	3.28	22.6	9.9	0.53	3220	1.99	0.05	9.1	10.5
W599628		29.2	4.37	17.20	0.09	3.6	0.051	1.38	21.6	48.5	0.62	2840	1.04	0.04	9.4	6.8
W599629		17.5	4.00	17.60	0.08	3.7	0.056	1.25	16.1	49.0	0.47	2600	0.55	0.03	9.9	9.0
W599630		11.5	2.73	14.60	0.10	3.3	0.039	2.55	26.1	22.8	0.57	1920	1.20	0.04	9.9	5.2
W599631		14.3	2.99	16.80	0.12	4.0	0.042	2.90	36.1	25.8	0.64	703	0.77	0.06	12.0	6.0
W599632		15.7	3.32	17.20	0.13	4.1	0.047	2.76	32.6	31.4	0.56	802	0.70	0.06	11.4	7.5
W599633		205	6.18	15.05	0.12	1.0	0.670	2.96	25.2	41.7	0.77	2090	8.53	0.07	6.3	17.0
W599634		30.2	2.95	16.45	0.11	4.0	0.039	2.46	32.4	30.5	0.66	911	0.71	0.05	11.1	6.9
W599635		25.1	3.36	17.40	0.11	4.2	0.031	2.00	29.1	40.7	0.44	988	0.63	0.04	10.4	7.5
W599636		16.2	2.88	16.35	0.11	4.0	0.044	2.72	35.2	28.9	0.58	576	0.72	0.05	11.8	6.0
W599637		17.5	2.72	15.40	0.14	3.7	0.064	2.89	34.0	20.6	0.91	764	0.60	2.20	11.2	5.7
W599638		22.2	2.72	15.10	0.12	3.6	0.062	2.78	34.0	20.3	0.89	750	0.73	2.32	10.9	5.6
W599639		25.9	2.89	15.95	0.13	4.0	0.066	3.41	32.9	15.7	0.79	711	0.40	2.06	12.2	5.1
W599640		5.7	2.96	15.40	0.14	4.0	0.072	3.27	33.2	17.8	0.82	775	0.29	1.88	11.0	5.8
W599641		30.3	3.09	15.85	0.15	4.0	0.088	3.10	25.5	29.1	0.60	756	0.51	0.72	10.8	6.9
W599642		26.8	3.02	14.95	0.17	4.1	0.070	3.34	21.8	16.5	0.61	523	0.37	1.60	10.8	5.7
W599643		28.1	2.03	14.75	0.20	3.7	0.072	3.59	27.8	9.9	0.44	594	0.68	1.45	12.0	3.2
W599644		10.0	1.40	14.95	0.23	4.3	0.042	3.34	36.8	19.4	0.32	514	0.58	0.65	13.1	1.4
W599645		23.8	2.06	15.05	0.18	4.0	0.038	3.06	34.7	15.7	0.43	1320	3.86	0.04	11.7	2.6
W599646		11.8	2.21	18.20	0.19	4.0	0.030	2.29	27.3	25.3	0.88	1240	1.66	0.06	10.6	4.9
W599647		9.7	2.32	18.05	0.20	3.9	0.025	2.39	29.8	25.5	0.97	1440	1.87	0.05	10.4	5.7
W599648		401	3.89	10.25	0.13	1.9	0.303	1.91	18.4	18.7	0.47	2840	1.69	0.03	6.1	2.3
W599649		64.3	3.04	9.16	0.11	1.5	0.137	1.81	15.2	18.9	0.48	6340	9.68	0.03	4.8	1.4
W599650		32.1	2.57	11.40	0.12	2.0	0.060	2.14	15.8	14.9	0.50	4420	3.17	0.03	6.7	1.1
W599651		1340	12.15	11.50	0.13	0.7	4.47	2.04	14.4	30.1	0.55	2030	16.70	0.16	4.1	14.5
W599652		7.8	2.15	15.75	0.11	2.8	0.034	2.71	16.5	17.0	0.65	3180	2.84	0.03	10.5	1.9
W599653		8.3	2.84	13.90	0.10	2.7	0.039	1.64	22.7	37.6	0.92	4450	0.54	0.02	7.7	9.6
W599654		15.8	3.62	15.85	0.10	2.9	0.052	1.55	17.9	47.2	0.60	2650	0.48	0.02	8.7	22.5
W599655		36.0	4.17	14.55	0.14	2.0	0.103	2.83	18.4	23.0	0.75	3740	1.81	0.03	5.8	4.9
W599656		35.1	4.14	14.40	0.13	2.0	0.095	2.86	18.7	22.7	0.76	3760	1.73	0.03	5.7	5.0
W599657		4.5	2.96	12.45	0.09	1.7	0.046	1.07	17.2	62.4	0.74	1920	2.01	0.03	5.6	1.6
W599658		2.3	3.48	17.10	0.13	1.6	0.060	1.45	17.2	54.2	0.62	1460	1.47	0.04	7.1	2.3
W599659		2.8	3.16	17.00	0.12	1.7	0.053	1.82	15.3	57.8	0.74	1330	0.62	0.05	7.0	2.0
W599660		1.8	3.94	16.55	0.13	1.5	0.085	1.41	18.9	50.3	0.79	1780	0.71	0.04	6.8	2.0
W599661		99.2	5.47	15.05	0.12	1.5	0.139	3.14	13.3	21.1	0.53	1420	0.46	0.04	6.0	1.8
W599662		1.5	0.12	0.41	0.08	0.1	<0.005	0.03	1.5	1.4	1.74	106	0.10	0.03	0.2	0.5
W599663		3.9	3.80	16.35	0.14	1.6	0.110	3.00	17.4	37.3	0.90	2090	0.63	0.06	6.8	2.0
W599664		3.5	3.75	15.25	0.13	1.7	0.081	2.14	18.5	96.1	1.16	2020	0.22	0.05	6.8	2.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203591

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W599625		130	29.8	99.0	<0.002	0.20	46.0	3.8	<1	1.7	26.3	0.96	<0.05	23.2	0.094	0.79
W599626		180	34.7	102.0	<0.002	0.92	53.1	6.5	1	1.2	26.2	0.61	0.06	14.60	0.136	2.05
W599627		570	41.4	171.5	<0.002	2.76	31.0	19.7	1	2.2	52.7	0.58	0.05	10.65	0.380	6.10
W599628		630	27.7	54.2	<0.002	0.33	17.80	19.8	1	1.7	75.4	0.64	0.14	10.05	0.410	1.01
W599629		610	27.7	39.6	<0.002	0.13	16.45	19.3	<1	1.6	57.5	0.66	<0.05	9.04	0.415	0.94
W599630		340	51.5	121.0	<0.002	1.38	15.35	10.4	1	1.8	101.5	0.76	0.35	14.50	0.249	1.64
W599631		400	23.0	152.0	<0.002	1.74	8.49	11.4	<1	1.8	73.3	0.95	0.56	20.6	0.270	1.24
W599632		510	25.3	137.5	<0.002	2.13	8.90	14.0	1	1.8	78.8	0.85	0.89	17.75	0.335	0.96
W599633		540	1865	171.5	<0.002	3.50	47.8	9.8	1	6.2	80.5	0.49	0.22	10.75	0.212	2.58
W599634		480	42.2	112.5	<0.002	2.17	17.90	12.2	1	1.8	48.1	0.84	0.69	18.40	0.309	0.94
W599635		550	28.8	103.0	<0.002	2.79	7.71	15.8	1	1.5	56.5	0.80	0.25	15.90	0.371	0.77
W599636		420	39.6	137.5	<0.002	2.40	8.52	11.7	1	1.8	42.0	0.87	0.69	20.1	0.296	0.94
W599637		410	36.7	118.0	<0.002	0.05	2.63	11.2	1	2.5	406	0.85	<0.05	19.05	0.266	1.04
W599638		390	48.4	115.5	<0.002	0.05	2.63	10.6	<1	3.1	418	0.84	<0.05	18.95	0.262	1.03
W599639		390	26.1	146.0	<0.002	0.03	4.74	10.6	<1	2.1	304	0.95	<0.05	19.90	0.264	1.17
W599640		430	20.0	139.5	<0.002	0.01	5.66	11.3	1	2.0	254	0.84	<0.05	18.55	0.284	1.03
W599641		440	27.7	128.0	<0.002	0.05	8.27	11.3	<1	2.9	127.5	0.90	<0.05	15.75	0.299	1.15
W599642		410	24.3	120.0	<0.002	0.02	6.82	10.4	<1	2.4	210	0.89	<0.05	15.20	0.287	1.09
W599643		240	32.1	160.5	<0.002	0.03	6.07	6.7	<1	2.4	220	0.98	<0.05	18.10	0.190	1.33
W599644		170	29.5	172.5	<0.002	0.02	12.00	4.9	<1	2.8	146.5	1.17	<0.05	24.8	0.155	1.45
W599645		390	45.2	167.5	<0.002	1.23	27.4	8.2	1	4.0	78.0	0.93	0.07	18.25	0.244	3.25
W599646		1030	13.7	83.1	<0.002	0.64	30.2	5.1	<1	1.8	82.4	0.71	<0.05	8.64	0.301	2.51
W599647		1050	18.0	91.6	<0.002	0.78	33.4	5.1	<1	1.6	92.8	0.67	<0.05	9.21	0.306	2.68
W599648		500	5340	108.0	<0.002	4.30	778	4.5	1	1.6	54.2	0.38	0.14	6.05	0.179	2.99
W599649		360	1000	98.9	<0.002	2.96	148.5	4.6	1	2.0	28.6	0.31	0.16	5.34	0.146	2.89
W599650		320	424	129.5	<0.002	2.33	89.0	4.7	<1	2.7	30.5	0.78	0.07	9.36	0.127	3.55
W599651		390	9840	113.0	0.003	>10.0	256	6.9	2	10.6	89.2	0.34	1.91	6.88	0.148	1.90
W599652		420	159.5	165.0	<0.002	1.79	41.6	5.9	<1	2.5	51.9	1.23	<0.05	13.10	0.167	5.24
W599653		660	63.5	106.0	<0.002	0.84	36.4	12.8	<1	1.7	92.7	0.55	<0.05	10.90	0.305	3.42
W599654		740	26.7	95.9	0.002	0.23	36.5	18.2	<1	1.3	77.6	0.60	<0.05	10.85	0.394	2.81
W599655		520	1270	205	<0.002	3.44	74.7	13.5	<1	2.9	54.3	0.39	0.05	6.81	0.303	6.88
W599656		510	1295	199.5	<0.002	3.38	74.7	13.7	<1	2.8	55.2	0.39	0.05	6.71	0.304	6.79
W599657		440	22.5	73.4	<0.002	0.45	42.6	11.5	<1	1.3	64.2	0.36	<0.05	5.89	0.277	3.14
W599658		590	16.1	75.6	<0.002	0.75	24.9	14.0	<1	1.4	75.0	0.50	0.08	6.80	0.350	4.01
W599659		600	14.8	84.3	<0.002	0.21	14.75	13.9	<1	1.5	83.2	0.52	<0.05	6.63	0.351	3.44
W599660		590	24.6	75.6	<0.002	0.42	27.2	13.6	<1	1.4	77.2	0.49	<0.05	7.32	0.335	4.37
W599661		560	2900	158.0	<0.002	5.42	126.5	12.5	<1	3.9	67.6	0.41	<0.05	5.30	0.335	6.79
W599662		60	3.8	1.4	<0.002	0.01	0.26	0.3	1	<0.2	81.7	<0.05	<0.05	0.17	0.006	0.04
W599663		580	44.9	158.0	<0.002	0.74	13.70	14.1	<1	1.8	92.8	0.49	<0.05	6.20	0.355	4.56
W599664		600	9.8	139.0	<0.002	0.25	14.05	14.3	<1	1.7	105.0	0.48	<0.05	6.98	0.351	3.59

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203591

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W599625		6.0	11	2.3	20.7	75	86.7	<0.005
W599626		6.1	39	2.2	30.3	92	77.2	0.063
W599627		7.9	137	3.6	19.4	186	136.5	0.060
W599628		5.1	143	5.8	19.8	141	137.0	<0.005
W599629		5.7	138	8.2	16.7	191	139.0	<0.005
W599630		5.9	73	2.7	19.8	132	113.5	<0.005
W599631		9.3	80	2.0	23.0	61	135.5	<0.005
W599632		6.6	90	2.1	24.7	75	145.5	<0.005
W599633		4.3	66	5.4	12.2	3010	28.4	0.680
W599634		7.0	86	2.0	22.4	155	144.0	0.005
W599635		9.4	108	2.7	26.1	102	155.0	<0.005
W599636		6.1	81	2.7	24.8	115	137.5	<0.005
W599637		5.9	75	1.8	24.4	77	128.0	<0.005
W599638		5.9	75	1.7	23.8	80	125.0	<0.005
W599639		6.3	71	1.5	23.0	67	127.0	<0.005
W599640		5.5	75	1.9	22.5	82	135.5	<0.005
W599641		5.6	82	4.6	19.5	75	130.0	<0.005
W599642		5.4	70	3.0	17.2	76	129.0	<0.005
W599643		6.1	44	2.4	18.1	58	106.5	<0.005
W599644		6.8	18	2.9	19.8	44	122.5	<0.005
W599645		7.7	51	2.8	18.3	95	126.0	0.011
W599646		4.2	52	1.6	10.3	56	153.5	<0.005
W599647		4.0	53	1.4	10.4	58	149.0	<0.005
W599648		6.5	37	1.4	8.2	9150	67.7	1.135
W599649		2.1	34	1.6	8.5	5770	52.9	0.418
W599650		4.5	28	1.7	9.9	933	58.8	0.554
W599651		4.5	50	4.3	9.3	>10000	20.4	2.81
W599652		13.5	40	2.8	13.1	480	78.0	0.214
W599653		4.4	95	6.8	14.3	264	92.0	0.125
W599654		5.1	141	6.8	14.8	145	104.5	<0.005
W599655		3.3	115	5.8	12.2	1760	69.4	0.260
W599656		3.1	115	5.9	11.9	1590	66.5	0.285
W599657		2.6	97	13.6	12.1	68	56.7	0.109
W599658		2.9	119	16.9	12.9	65	50.4	0.024
W599659		2.8	121	8.8	12.5	69	53.9	<0.005
W599660		2.7	108	11.5	14.0	72	44.3	<0.005
W599661		1.9	112	10.6	10.1	6080	47.2	0.271
W599662		0.2	2	0.1	2.1	8	1.6	<0.005
W599663		2.3	120	3.8	12.0	101	52.8	0.016
W599664		2.5	116	3.7	13.1	89	54.0	0.006

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 6-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20203591

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Zn-OG62			

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-NOV-2020
Account: ROCKHA

CERTIFICATE WH20208123

Project: Klaza

P.O. No.: Batch 16

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 19-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20208123

Sample Description	Method	WEI-21	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W599665		3.20				1.33	7.85	216	670	1.38	0.17	1.72	5.60	36.0	6.1	9
W599666		1.65				24.3	7.13	7140	500	1.22	0.33	2.67	30.4	34.7	9.9	6
W599667		3.83				0.79	7.85	959	630	1.46	0.20	2.00	0.60	39.9	6.9	9
W599668		4.70				8.23	7.63	1750	510	1.29	0.29	2.80	14.25	40.1	6.8	6
W599669		0.26				9.97	6.83	1995	480	1.43	5.37	1.80	34.6	43.2	10.9	29
W599670		4.29				4.78	6.87	2170	460	1.20	0.26	2.27	35.4	28.3	5.3	6
W599671		4.26				4.34	6.50	1060	470	1.09	0.34	4.33	3.48	35.4	6.3	6
W599672		4.48				15.50	7.68	1520	550	1.49	0.13	1.81	62.3	29.9	6.8	8
W599673		1.10			2.19	70.8	6.25	8870	190	1.04	0.19	2.61	358	30.6	3.9	8
W599674		4.16				1.06	7.96	125.0	610	1.50	0.13	2.29	1.44	32.2	6.2	11
W599675		4.18				0.19	7.54	29.2	900	1.18	0.19	3.44	0.39	31.4	6.9	8
W599676		4.33				0.08	7.39	17.2	910	1.22	0.12	3.36	0.13	31.4	8.0	9
W599677		4.37				0.07	8.02	27.2	1090	1.44	0.13	2.86	0.12	35.8	9.2	8
W599678		0.26			1.460	95.3	4.83	4090	330	1.08	51.9	1.62	201	30.2	61.7	36
W599679		4.47				2.11	7.86	479	1060	1.49	0.55	2.35	2.91	36.4	12.9	6
W599680		4.49				0.42	8.29	48.4	1010	1.54	0.55	2.45	0.13	40.2	12.7	5
W599681		4.24				0.76	8.00	47.8	990	1.41	0.41	2.80	1.35	35.5	12.9	9
W599682		3.98				1.85	7.77	172.0	830	1.62	0.42	4.17	0.84	44.2	14.9	16
W599683		1.72	288	3.49	1.590	>100	5.32	3790	330	1.21	0.36	8.57	219	31.9	8.8	10
W599684		5.11				0.14	0.20	1.2	30	0.11	0.03	33.3	0.09	0.98	0.9	1
W599685		3.23				1.00	6.70	82.8	480	1.20	0.28	6.12	0.73	45.3	7.7	13
W599686		2.87				0.80	7.29	449	600	1.22	0.37	5.49	0.14	43.9	9.8	21
W599687		3.35				0.25	8.01	34.9	1020	1.24	0.37	4.26	0.29	46.7	13.0	29
W599688		3.50				0.24	7.93	25.5	980	1.06	0.33	2.97	0.22	49.1	12.0	21
W599689		4.11				0.44	8.37	44.8	1030	1.18	0.29	3.61	0.53	49.0	13.0	27
W599690		3.00				0.15	8.00	22.1	620	1.25	0.19	3.68	0.08	40.9	11.6	27
W599691		2.14				0.18	7.99	9.1	530	1.15	0.21	3.46	0.06	34.0	11.0	35
W599692		1.75				4.51	7.51	5920	440	1.12	0.14	5.14	1.46	41.0	11.1	22
W599693		1.29				23.1	8.07	151.5	850	1.36	0.23	3.19	0.18	37.3	12.9	40
W599694		3.64	189			>100	7.86	311	640	1.20	0.23	3.57	0.14	37.6	12.7	65
W599695		7.30				0.55	8.51	332	940	1.30	0.37	1.55	2.37	39.3	16.4	19
W599696		<0.02				0.77	8.40	325	920	1.17	0.32	1.52	2.37	40.4	15.7	18
W599697		7.23				0.29	8.36	193.0	1160	1.22	0.33	2.73	1.37	42.3	15.4	22
W599698		8.68				0.25	8.08	62.6	1160	1.19	0.26	2.71	0.47	41.1	13.5	22
W599699		2.88				0.23	8.04	66.4	1160	1.27	0.25	2.67	0.46	42.6	13.7	23
W599700		7.78				0.22	8.19	93.9	1080	1.23	0.33	2.87	0.94	41.7	15.2	21
W599701		7.54				0.23	8.46	422	1060	1.37	0.22	1.89	2.66	39.3	16.8	21
W599702		6.55				0.97	8.32	428	1190	1.40	0.37	1.80	5.46	42.5	17.8	19
W599703		6.98				0.36	8.33	355	1240	1.47	0.16	1.98	3.67	42.1	17.9	17
W599704		8.46				0.32	8.36	227	1140	1.40	0.31	2.40	1.05	40.0	12.7	19

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20208123

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W599665		13.60	4.1	3.31	15.65	0.09	1.7	0.084	3.08	17.1	39.8	0.72	1980	0.51	0.05	6.8
W599666		16.30	11.7	4.57	14.20	0.11	1.6	0.127	3.11	17.7	24.8	0.96	2970	1.51	0.06	5.7
W599667		16.55	3.9	3.98	15.35	0.10	1.7	0.076	3.25	19.5	34.7	0.84	2260	0.40	0.06	6.7
W599668		20.4	12.6	4.33	16.50	0.10	1.7	0.072	3.46	21.7	12.0	0.98	2300	0.44	0.05	6.1
W599669		15.55	197.5	6.10	14.35	0.11	1.0	0.634	3.00	23.6	39.7	0.76	2010	8.32	0.07	6.0
W599670		14.45	13.9	4.13	13.45	0.09	1.5	0.107	3.26	14.8	12.0	0.76	2430	1.27	0.06	5.9
W599671		13.00	4.4	4.92	13.15	0.09	1.5	0.073	3.00	19.3	18.2	1.35	6150	1.13	0.05	5.5
W599672		17.40	22.1	4.25	16.15	0.08	1.6	0.123	2.45	14.3	61.1	0.68	1440	0.30	0.04	6.6
W599673		13.15	85.2	7.19	13.45	0.09	1.3	0.316	2.88	15.8	16.9	0.94	1850	0.84	0.04	5.6
W599674		15.15	2.8	4.07	16.30	0.08	1.6	0.072	2.77	15.4	29.6	0.76	1340	0.20	0.33	7.0
W599675		16.80	1.8	3.69	15.10	0.08	1.7	0.048	1.85	15.6	34.7	1.02	944	0.35	1.50	6.4
W599676		11.35	1.7	3.60	15.75	0.08	1.9	0.046	1.68	15.3	21.1	1.15	775	0.32	1.99	6.8
W599677		13.50	1.5	3.95	17.00	0.09	2.0	0.052	2.36	17.4	22.2	0.86	927	0.35	1.05	7.3
W599678		9.12	1300	12.10	11.65	0.12	0.8	4.36	2.04	15.9	30.1	0.56	1960	16.45	0.16	4.4
W599679		18.35	7.9	4.42	15.70	0.08	2.1	0.075	3.26	19.1	25.8	1.01	1740	0.72	0.05	6.6
W599680		14.45	3.1	4.53	16.60	0.09	2.2	0.077	2.62	21.0	30.7	1.03	1760	0.26	0.05	6.7
W599681		15.75	3.9	4.18	16.30	0.08	2.3	0.069	2.67	17.2	23.9	1.01	1640	0.35	0.77	7.0
W599682		26.0	11.4	4.56	19.00	0.10	2.3	0.106	3.49	22.5	16.6	1.20	2070	0.49	0.04	7.6
W599683		16.10	273	5.02	12.90	0.07	2.0	0.917	1.89	16.9	22.9	1.82	3510	0.31	0.03	4.9
W599684		0.09	1.7	0.15	0.63	<0.05	0.1	<0.005	0.08	1.1	1.5	1.55	100	<0.05	0.05	0.3
W599685		17.60	7.1	3.84	15.30	0.08	2.3	0.084	2.89	24.1	11.9	1.25	2090	0.20	0.04	7.4
W599686		22.4	7.3	3.93	15.90	0.09	2.5	0.045	3.12	22.2	8.9	0.85	1490	0.47	0.36	7.9
W599687		6.46	5.7	4.27	18.00	0.08	2.8	0.065	2.23	22.7	27.3	1.24	1160	0.41	2.08	8.1
W599688		7.24	6.0	3.61	16.05	0.08	2.8	0.053	2.78	23.9	28.0	1.16	1140	0.56	2.39	9.3
W599689		23.6	20.2	4.26	17.20	0.09	2.3	0.060	1.97	25.2	27.8	1.73	1320	0.60	1.41	8.0
W599690		20.1	4.5	4.06	16.90	0.08	1.8	0.060	2.03	20.5	22.7	1.77	1170	0.54	1.29	7.0
W599691		20.2	5.0	4.29	16.45	0.07	1.7	0.079	1.88	16.3	24.6	2.29	1140	0.40	1.46	7.1
W599692		22.2	8.3	3.35	15.55	0.09	1.9	0.045	3.26	21.3	8.7	0.67	3020	0.31	0.15	6.7
W599693		13.90	37.2	4.58	17.15	0.07	2.0	0.055	1.77	17.8	28.4	1.81	1120	2.78	1.66	7.9
W599694		16.80	300	4.67	16.80	0.09	1.9	0.064	1.86	18.6	23.4	1.75	1260	7.15	1.49	7.5
W599695		12.75	22.3	4.23	17.05	0.08	3.8	0.057	2.63	19.2	14.0	1.17	1890	1.99	1.04	7.4
W599696		12.20	21.5	4.12	16.35	0.08	3.6	0.058	2.57	20.0	13.7	1.16	1890	1.90	1.00	7.2
W599697		8.54	17.5	4.27	16.80	0.08	3.7	0.054	2.03	20.3	16.5	1.51	1930	2.76	2.03	7.3
W599698		6.57	19.7	4.17	16.75	0.08	3.8	0.052	2.06	19.5	17.3	1.61	946	1.67	2.26	7.4
W599699		6.67	19.6	4.10	17.10	0.08	3.8	0.049	2.07	20.8	18.0	1.59	950	1.72	2.21	7.5
W599700		5.10	17.0	4.20	16.80	0.08	3.7	0.050	2.10	20.3	11.6	1.62	1160	1.45	2.52	7.5
W599701		5.53	18.8	4.37	16.55	0.06	3.6	0.051	2.03	18.7	14.0	1.43	1950	2.63	2.41	7.4
W599702		7.47	18.9	4.20	16.15	0.09	3.6	0.060	2.07	21.4	19.9	1.49	3420	4.51	1.61	7.1
W599703		8.79	17.5	4.21	16.90	0.09	3.8	0.069	2.04	20.9	20.4	1.39	3360	5.30	1.68	7.3
W599704		7.10	15.8	4.01	17.35	0.14	3.5	0.047	1.92	20.6	15.3	1.46	1290	2.13	1.92	7.4

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 19-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208123

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W599665		2.5	590	124.5	159.5	<0.002	0.76	17.40	13.2	<1	1.9	66.9	0.48	<0.05	7.53	0.353
W599666		2.0	460	3060	194.0	<0.002	2.81	54.2	11.0	1	3.4	67.1	0.40	0.05	7.27	0.283
W599667		2.6	620	21.0	177.0	<0.002	1.66	17.90	12.2	<1	1.6	69.3	0.49	<0.05	7.92	0.337
W599668		1.9	520	1070	213	<0.002	3.59	28.4	13.1	<1	3.2	75.0	0.45	<0.05	7.61	0.301
W599669		16.4	530	1805	158.0	<0.002	3.46	43.9	9.8	1	5.5	79.1	0.46	0.22	10.35	0.212
W599670		1.4	500	496	180.5	<0.002	3.24	25.4	12.5	1	2.4	56.5	0.41	0.08	6.89	0.275
W599671		2.0	480	462	178.0	<0.002	3.34	21.8	11.7	1	3.3	86.0	0.38	0.06	6.63	0.252
W599672		2.5	590	2030	112.0	<0.002	1.30	37.5	13.1	<1	1.7	64.5	0.47	<0.05	6.31	0.322
W599673		1.9	460	9550	173.0	<0.002	6.97	104.0	10.6	1	4.7	60.5	0.40	<0.05	6.47	0.250
W599674		2.3	600	94.7	128.5	<0.002	0.98	15.65	12.9	1	1.8	98.2	0.52	<0.05	6.99	0.328
W599675		2.4	590	29.8	86.8	<0.002	0.05	8.58	12.5	1	1.1	278	0.49	<0.05	6.62	0.321
W599676		2.4	610	17.2	66.0	<0.002	0.03	6.87	13.1	1	1.1	383	0.50	<0.05	6.37	0.333
W599677		2.5	630	12.4	105.5	<0.002	0.07	12.95	14.0	1	1.2	264	0.52	<0.05	7.10	0.351
W599678		15.3	380	9500	111.0	0.002	>10.0	242	7.4	2	9.9	95.7	0.33	2.03	7.06	0.152
W599679		2.1	600	140.0	181.5	<0.002	1.37	22.4	15.1	1	1.8	68.5	0.47	<0.05	6.64	0.348
W599680		1.9	660	15.3	163.0	<0.002	0.53	24.5	17.4	1	1.2	71.2	0.45	<0.05	6.57	0.391
W599681		2.5	650	66.1	127.0	<0.002	0.61	18.25	16.9	1	1.2	152.0	0.50	0.05	5.91	0.404
W599682		3.8	580	74.6	187.5	<0.002	3.22	18.35	17.0	1	2.1	118.5	0.51	<0.05	7.43	0.363
W599683		3.0	410	>10000	104.5	<0.002	4.71	333	11.9	1	10.2	231	0.35	<0.05	5.56	0.240
W599684		0.2	60	13.2	2.3	<0.002	<0.01	0.22	0.2	2	0.2	80.6	<0.05	<0.05	0.17	0.005
W599685		3.2	540	33.2	129.0	<0.002	2.81	8.86	13.1	1	2.0	159.5	0.54	<0.05	7.77	0.305
W599686		4.5	590	17.3	145.0	<0.002	1.81	11.95	16.3	1	1.9	155.5	0.56	<0.05	8.13	0.360
W599687		7.3	730	17.6	73.1	<0.002	0.17	6.83	18.0	1	1.7	611	0.55	<0.05	7.47	0.421
W599688		5.2	700	11.0	110.5	<0.002	0.17	4.40	13.3	1	1.3	850	0.65	0.06	8.55	0.378
W599689		7.9	690	24.6	86.6	<0.002	0.29	9.50	16.5	1	1.4	505	0.53	0.07	8.01	0.376
W599690		6.7	680	8.5	86.6	<0.002	0.22	10.60	16.8	1	1.3	408	0.48	0.08	6.51	0.383
W599691		9.5	700	7.8	69.0	<0.002	0.13	6.77	17.1	1	1.3	449	0.49	0.07	5.10	0.419
W599692		7.4	630	43.9	257	<0.002	2.55	53.8	16.7	1	1.7	232	0.47	0.07	6.24	0.375
W599693		13.7	730	16.4	66.6	0.002	0.23	10.50	17.9	1	1.5	484	0.55	0.06	6.04	0.442
W599694		47.0	700	13.4	78.3	0.007	0.37	10.65	17.6	1	2.2	444	0.49	0.09	5.85	0.413
W599695		11.4	790	11.1	123.0	<0.002	0.31	19.85	17.3	1	1.4	217	0.56	0.05	10.70	0.405
W599696		11.3	770	10.5	123.0	<0.002	0.30	18.90	16.9	1	1.4	213	0.53	0.06	10.65	0.395
W599697		11.2	730	12.2	62.6	<0.002	0.37	13.75	16.7	1	1.5	374	0.55	<0.05	9.57	0.403
W599698		8.4	710	12.8	60.0	<0.002	0.46	15.20	16.2	1	1.6	378	0.57	<0.05	9.59	0.396
W599699		9.0	700	12.3	63.5	<0.002	0.40	14.75	16.3	1	1.6	370	0.55	<0.05	9.85	0.391
W599700		9.0	700	11.8	62.3	<0.002	0.30	13.40	15.8	1	1.4	395	0.57	<0.05	9.90	0.398
W599701		13.0	730	13.9	59.6	<0.002	0.05	14.65	16.1	1	1.5	346	0.56	<0.05	9.84	0.396
W599702		12.6	730	73.4	72.1	<0.002	0.10	19.80	16.3	<1	1.4	297	0.52	<0.05	9.94	0.390
W599703		15.0	740	20.6	66.3	<0.002	0.03	17.80	16.8	1	1.6	326	0.55	<0.05	10.25	0.391
W599704		10.3	740	27.2	62.4	<0.002	0.07	18.65	16.5	<1	1.3	379	0.59	<0.05	11.00	0.403

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Project: Klaza

Finalized Date: 19-NOV-2020
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CERTIFICATE OF ANALYSIS WH20208123

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W599665		4.09	2.2	121	3.1	12.3	473	55.4	0.013
W599666		3.97	2.2	91	2.7	11.5	2080	52.1	0.899
W599667		4.98	2.4	108	2.7	12.2	87	53.7	0.018
W599668		6.36	2.0	104	5.2	12.0	982	55.2	0.103
W599669		2.38	4.0	65	5.2	11.4	2850	26.9	0.592
W599670		3.73	1.5	96	4.7	10.0	2230	48.5	0.128
W599671		4.13	1.4	85	4.4	12.4	278	46.0	0.077
W599672		3.44	2.8	109	4.9	11.2	3890	47.6	0.126
W599673		3.39	1.5	85	4.0	9.6	>10000	40.5	0.565
W599674		3.27	2.4	105	3.7	11.8	146	49.7	0.011
W599675		1.77	2.1	109	1.2	12.4	92	54.7	<0.005
W599676		1.38	2.0	108	1.1	13.3	68	61.2	<0.005
W599677		2.41	2.0	120	2.5	14.6	68	65.1	<0.005
W599678		1.80	4.4	51	4.3	9.8	>10000	22.5	2.92
W599679		3.64	2.9	121	2.2	13.8	253	71.2	0.033
W599680		3.07	2.6	140	2.0	14.1	108	83.2	0.010
W599681		2.88	2.0	140	2.0	13.9	249	80.4	0.011
W599682		4.22	2.6	152	2.7	16.2	142	83.3	0.030
W599683		2.44	2.2	102	2.6	13.6	>10000	71.5	1.295
W599684		0.03	0.2	1	0.1	2.2	14	1.7	<0.005
W599685		3.20	2.9	120	2.5	13.0	206	79.2	0.016
W599686		3.08	2.6	124	1.7	14.1	92	89.2	0.019
W599687		0.68	2.6	143	1.0	20.0	130	101.0	<0.005
W599688		0.93	2.3	98	1.1	18.2	156	102.5	<0.005
W599689		1.10	2.2	124	9.6	18.5	154	81.2	0.007
W599690		1.80	1.9	132	1.5	17.6	55	63.8	<0.005
W599691		1.28	1.3	151	1.6	15.7	66	61.1	<0.005
W599692		2.91	1.7	126	7.6	15.9	149	70.1	2.07
W599693		1.11	1.6	148	98.5	17.0	83	74.8	0.018
W599694		1.29	1.6	143	870	16.7	81	67.9	0.081
W599695		3.03	3.7	142	2.8	22.3	169	136.0	<0.005
W599696		2.88	3.5	137	3.1	22.2	165	131.0	0.005
W599697		1.40	3.2	139	1.2	23.6	125	132.5	0.006
W599698		1.06	3.1	139	1.3	21.7	74	133.0	<0.005
W599699		1.05	3.1	138	1.2	22.3	74	136.0	<0.005
W599700		1.01	3.1	138	1.3	22.2	119	132.0	<0.005
W599701		0.95	3.5	138	1.3	23.4	257	127.0	<0.005
W599702		1.16	3.4	135	1.5	24.2	421	131.0	<0.005
W599703		1.24	3.4	136	2.0	24.4	345	133.5	<0.005
W599704		0.97	3.4	144	1.7	20.8	159	126.0	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 19-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208123

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Pb-OG62	Zn-OG62		

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 23-NOV-2020
Account: ROCKHA

CERTIFICATE WH20208130

Project: Klaza

P.O. No.: Batch 17

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 23-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208130

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599705		7.95		0.26	8.57	127.0	1030	1.28	0.19	2.72	0.98	36.7	14.5	25	7.83	19.4
W599706		6.94		0.93	8.26	143.0	1050	1.44	0.15	1.78	1.37	41.6	15.3	31	7.00	19.5
W599707		7.11		0.19	8.44	45.0	1160	1.43	0.29	1.73	0.14	48.2	12.3	30	7.47	12.9
W599708		8.64		0.38	8.68	50.3	1160	1.32	0.15	1.68	0.25	48.1	13.1	31	8.30	17.8
W599709		8.81		0.18	7.77	85.0	1050	1.45	0.11	2.50	0.30	40.8	14.1	30	7.79	18.6
W599710		0.26		9.69	6.71	2070	290	1.58	5.97	1.79	37.1	46.0	11.9	29	16.75	201
W599711		3.80		0.10	8.41	56.4	1160	1.55	0.15	2.11	0.16	45.6	12.8	30	8.55	15.1
W599712		4.82		0.24	8.22	31.4	1250	1.35	0.16	1.70	0.08	51.0	16.6	30	7.36	12.4
W599713		1.84		0.19	8.45	29.2	1210	1.46	0.12	1.79	0.12	51.4	15.4	32	7.94	15.2
W599714		8.50		0.10	7.98	29.4	1180	1.50	0.10	2.31	0.12	42.3	13.8	30	7.46	15.2
W599715		7.99		0.12	8.37	55.6	1240	1.72	0.11	1.67	0.14	58.1	11.2	26	8.41	12.1
W599716		8.28		0.08	7.75	35.4	1190	1.43	0.10	2.53	0.09	42.9	12.7	31	6.79	19.1
W599717		8.76		0.10	8.14	45.8	1220	1.45	0.10	2.63	0.29	43.3	14.9	33	6.28	19.9
W599718		8.16		0.17	8.20	53.5	1150	1.40	0.12	2.09	0.30	48.8	13.6	31	7.40	20.0
W599719		8.46		0.12	7.88	126.5	1270	1.32	0.10	2.07	0.14	45.6	12.1	27	6.32	18.2
W599720		8.88		0.07	7.92	29.9	1270	1.52	0.10	2.32	0.04	47.3	11.6	28	5.32	15.6
W599721		8.48		0.10	7.89	87.3	1170	1.50	0.11	1.79	0.10	47.9	11.8	27	5.55	21.1
W599722		7.40		0.15	8.08	121.0	1140	1.51	0.10	1.33	0.14	52.0	11.8	26	6.09	16.8
W599723		7.37		0.13	8.29	77.1	1470	1.56	0.10	1.50	0.14	52.4	13.9	30	6.32	18.4
W599724		9.14		0.16	8.23	51.1	1210	1.41	0.11	2.43	0.15	44.5	23.6	34	7.15	19.8
W599725		7.84		0.15	8.50	90.0	1200	1.44	0.14	2.00	0.18	41.9	20.9	36	6.38	19.6
W599726		8.95		0.13	8.20	37.3	1210	1.41	0.10	2.14	0.10	52.1	15.5	32	6.31	19.7
W599727		3.38		0.17	8.12	26.3	1240	1.59	0.12	2.30	0.06	47.0	16.9	33	6.11	21.9
W599728		5.12		<0.01	0.09	0.6	20	0.07	0.02	33.4	<0.02	0.96	0.6	1	<0.05	1.4
W599729		6.70		0.16	7.72	24.5	1140	1.25	0.08	2.90	0.25	42.9	12.4	30	4.92	18.3
W599730		3.70		0.22	7.90	44.2	1100	1.33	0.09	2.18	0.96	41.3	13.8	32	7.53	17.2
W599731		4.73		0.13	7.72	14.0	1160	1.28	0.08	3.08	0.05	39.5	13.4	33	6.32	20.0
W599732		3.95		0.12	8.04	75.9	1330	1.47	0.15	1.48	0.17	60.7	7.1	20	7.74	11.4
W599733		4.95		0.13	7.91	32.7	1250	1.38	0.10	2.93	0.28	42.3	15.2	35	6.04	19.7
W599734		<0.02		0.10	8.11	31.5	1270	1.39	0.10	2.97	0.31	43.5	15.3	35	6.15	19.4
W599735		5.15		0.15	8.64	164.5	1300	1.46	0.12	1.60	0.60	50.8	14.1	33	7.89	19.1
W599736		3.15		0.18	7.96	52.4	1260	1.54	0.15	1.89	0.44	51.7	11.6	26	6.50	17.0
W599737		5.72		0.06	7.71	12.9	1390	1.60	0.17	1.20	0.05	67.0	5.2	15	6.88	6.9
W599738		4.57		0.06	8.11	17.0	1350	1.33	0.13	1.75	0.04	49.3	13.2	30	5.41	16.2
W599739		5.59		0.07	7.83	27.7	1130	1.35	0.08	3.05	0.08	42.2	16.0	36	4.78	18.2
W599740		5.28		0.09	8.04	29.3	1380	1.46	0.13	1.63	0.14	55.3	8.8	25	5.79	11.1
W599741		0.26	1.465	93.0	4.59	4020	100	1.02	52.0	1.52	198.0	28.3	60.6	35	8.64	1265
W599742		5.06		0.18	7.79	17.2	1420	1.67	0.22	1.33	0.30	64.2	7.0	25	6.22	13.3
W599743		5.58		0.08	8.25	11.8	1340	1.75	0.10	1.50	0.09	64.4	9.7	27	7.08	12.3
W599744		4.47		0.09	8.15	18.2	1510	1.74	0.16	1.44	0.11	65.0	6.9	20	6.37	10.4

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 23-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20208130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599705		4.63	18.10	0.14	3.3	0.059	1.68	18.6	15.7	1.60	1180	1.38	2.03	6.9	12.2	780
W599706		4.53	17.60	0.14	3.3	0.051	1.71	20.9	20.0	1.77	1520	1.77	1.83	7.2	16.0	660
W599707		4.21	17.45	0.14	4.0	0.046	2.22	25.2	17.0	1.77	999	0.94	1.89	8.5	21.4	620
W599708		4.33	18.00	0.16	3.8	0.044	2.15	25.5	19.5	1.91	1090	0.83	2.07	8.3	14.3	630
W599709		4.03	17.20	0.14	3.8	0.047	1.82	19.8	16.8	1.80	1170	0.55	2.31	8.2	13.4	580
W599710		6.07	15.95	0.15	1.0	0.667	3.00	24.5	44.5	0.75	2090	8.67	0.07	6.5	17.6	530
W599711		4.04	18.20	0.15	4.1	0.048	2.03	22.9	16.8	1.49	1100	1.06	2.43	8.6	14.0	600
W599712		4.00	17.90	0.15	3.9	0.038	2.83	26.8	11.5	0.94	609	16.75	2.24	8.5	14.5	520
W599713		3.93	17.90	0.17	3.9	0.044	2.74	27.3	12.8	1.06	689	7.07	2.31	8.6	14.2	530
W599714		3.87	18.00	0.16	4.0	0.043	2.10	21.3	13.9	1.12	861	1.63	2.17	8.8	12.9	550
W599715		3.48	18.45	0.16	4.4	0.043	2.39	29.7	12.9	0.91	747	1.50	2.27	9.6	11.8	490
W599716		3.92	16.65	0.14	3.9	0.042	1.97	21.3	14.0	1.10	1120	0.60	2.44	8.3	12.4	550
W599717		4.10	17.75	0.15	3.8	0.048	2.33	21.4	14.9	1.12	966	0.79	2.36	8.2	13.9	600
W599718		3.77	18.05	0.17	4.3	0.043	2.27	25.4	16.1	1.17	979	0.89	2.06	8.9	13.3	570
W599719		3.74	15.75	0.15	3.8	0.041	2.23	23.5	13.3	0.98	1040	1.21	2.29	8.2	11.3	530
W599720		3.65	16.75	0.16	3.9	0.035	2.30	23.9	10.7	0.98	1070	0.56	2.52	8.7	11.1	520
W599721		3.45	16.90	0.16	3.9	0.040	2.25	23.2	12.9	0.90	946	0.76	2.58	8.6	11.2	510
W599722		3.68	17.40	0.16	3.9	0.042	2.52	26.8	9.9	0.81	811	1.52	2.30	8.8	12.1	480
W599723		3.51	18.15	0.15	4.1	0.041	3.35	25.9	9.2	0.81	818	2.49	2.29	9.4	12.0	460
W599724		3.57	18.50	0.18	3.9	0.046	2.84	22.2	12.1	1.12	961	16.50	2.16	8.4	18.3	530
W599725		3.50	19.10	0.15	4.2	0.050	2.83	20.1	12.2	1.12	1000	3.22	2.53	8.5	18.2	590
W599726		4.16	17.85	0.18	3.8	0.045	2.49	27.4	14.4	1.34	1100	0.78	2.21	8.7	13.8	540
W599727		4.46	18.30	0.16	3.9	0.046	2.36	23.6	13.6	1.34	1010	0.81	2.40	8.3	14.7	570
W599728		0.14	0.32	0.13	0.1	<0.005	0.03	1.1	1.0	1.43	100	0.09	0.03	0.1	0.5	70
W599729		3.84	16.50	0.15	3.8	0.042	2.01	21.5	10.1	1.38	1090	0.69	2.28	8.0	12.2	540
W599730		3.83	17.30	0.14	3.9	0.047	2.17	20.6	13.7	1.45	1040	0.74	2.35	8.4	13.0	580
W599731		3.86	16.70	0.13	3.8	0.040	1.86	18.9	13.9	1.39	1020	0.53	2.34	7.9	13.3	580
W599732		2.57	16.30	0.18	4.3	0.041	2.63	32.1	9.0	0.71	525	0.69	2.25	9.9	7.2	420
W599733		3.85	17.95	0.15	3.9	0.043	2.04	20.9	13.3	1.34	979	0.80	2.41	8.4	14.0	590
W599734		3.78	17.75	0.15	4.1	0.046	2.06	21.2	13.8	1.36	976	0.73	2.45	8.5	14.2	600
W599735		4.02	18.50	0.16	4.1	0.046	2.41	25.3	17.0	1.33	853	1.42	2.36	8.7	14.5	580
W599736		3.51	17.35	0.16	4.0	0.046	2.42	25.5	13.3	0.98	704	1.15	2.33	9.1	10.5	500
W599737		2.14	16.00	0.17	4.2	0.033	3.21	35.5	6.1	0.40	266	2.34	2.26	11.1	4.1	300
W599738		3.57	17.65	0.13	4.1	0.041	2.85	23.3	11.9	0.90	594	1.65	2.57	8.6	11.1	550
W599739		4.50	17.65	0.18	3.9	0.049	2.00	20.8	13.1	1.34	912	0.92	2.26	7.8	14.5	610
W599740		3.13	16.05	0.09	3.9	0.036	2.92	28.3	8.2	0.71	561	0.78	2.48	8.9	8.0	440
W599741		11.40	11.85	0.10	0.7	3.88	1.93	14.3	28.5	0.53	1920	16.20	0.15	4.1	15.4	390
W599742		2.76	16.85	0.11	4.4	0.041	3.12	32.8	6.4	0.44	455	0.80	2.55	10.3	6.6	370
W599743		3.42	18.50	0.10	4.5	0.048	3.04	33.2	8.5	0.55	587	0.83	2.57	10.0	8.8	460
W599744		2.74	17.50	0.11	4.5	0.045	3.24	33.7	5.9	0.41	459	0.66	2.72	10.5	6.4	390

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 23-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599705		22.4	48.9	<0.002	0.02	14.95	18.3	<1	1.4	395	0.57	<0.05	9.04	0.433	0.85	2.9
W599706		18.1	57.5	<0.002	0.07	19.45	20.2	<1	1.5	304	0.58	<0.05	10.10	0.412	1.09	3.1
W599707		12.1	78.4	<0.002	0.06	9.10	18.1	<1	1.5	323	0.68	<0.05	13.60	0.404	0.92	3.6
W599708		17.8	79.1	<0.002	0.18	11.95	19.5	<1	1.6	343	0.66	<0.05	13.15	0.405	1.05	3.4
W599709		15.2	50.4	<0.002	0.36	13.70	17.0	<1	1.5	367	0.66	<0.05	10.60	0.373	0.94	3.3
W599710		1855	167.0	<0.002	3.57	47.5	10.0	<1	6.2	82.9	0.56	0.21	11.80	0.214	2.67	4.5
W599711		12.3	70.1	<0.002	0.23	6.92	18.6	<1	1.7	384	0.69	<0.05	12.40	0.391	0.73	3.8
W599712		15.3	136.5	0.007	1.65	7.02	17.0	<1	1.6	346	0.69	0.05	13.65	0.355	1.05	4.0
W599713		15.8	127.0	0.004	1.33	6.95	17.9	<1	1.7	357	0.67	<0.05	13.80	0.373	1.01	4.2
W599714		12.9	76.5	<0.002	0.34	6.27	16.7	<1	1.6	347	0.69	<0.05	11.90	0.364	0.73	3.7
W599715		11.9	112.0	<0.002	0.22	6.51	16.3	<1	1.8	330	0.80	<0.05	16.50	0.343	0.87	4.5
W599716		9.8	61.9	<0.002	0.19	7.10	15.2	<1	1.6	366	0.67	<0.05	11.95	0.353	0.68	3.5
W599717		14.2	82.3	<0.002	0.82	10.05	17.7	1	1.5	367	0.64	<0.05	11.80	0.384	0.92	3.6
W599718		14.0	95.2	<0.002	0.46	10.20	18.7	1	1.7	324	0.75	<0.05	13.35	0.366	1.11	4.0
W599719		13.4	79.8	<0.002	0.59	12.15	15.2	<1	1.5	357	0.68	<0.05	13.05	0.348	1.02	3.8
W599720		9.5	82.4	<0.002	0.33	5.85	15.1	<1	1.6	372	0.70	<0.05	13.50	0.340	0.75	4.0
W599721		12.4	95.1	<0.002	0.58	10.25	16.1	<1	2.1	345	0.67	<0.05	13.10	0.344	0.90	3.9
W599722		11.5	120.0	<0.002	0.87	7.94	15.9	<1	1.6	316	0.69	<0.05	14.10	0.343	0.92	4.1
W599723		16.3	143.0	<0.002	0.80	5.30	17.3	<1	1.7	357	0.74	<0.05	15.00	0.354	1.00	4.6
W599724		13.6	120.5	0.018	0.64	6.19	20.1	<1	1.5	362	0.65	<0.05	12.05	0.398	1.00	3.8
W599725		12.1	121.5	0.002	0.46	6.55	20.1	<1	1.7	374	0.69	<0.05	11.75	0.420	1.10	3.8
W599726		12.4	98.5	<0.002	0.56	4.72	17.8	<1	1.6	389	0.67	<0.05	13.60	0.363	0.94	4.1
W599727		15.1	86.3	<0.002	0.92	5.35	18.8	<1	1.6	430	0.65	0.05	11.75	0.382	0.89	3.7
W599728		0.7	1.0	<0.002	0.01	0.12	0.2	1	<0.2	81.9	<0.05	<0.05	0.09	0.005	<0.02	0.2
W599729		15.8	58.7	<0.002	0.33	5.87	14.9	<1	1.5	429	0.65	<0.05	11.50	0.356	0.75	3.6
W599730		21.4	79.1	<0.002	0.43	6.85	17.1	<1	1.6	410	0.66	<0.05	11.15	0.383	0.91	3.5
W599731		13.0	50.9	<0.002	0.16	4.61	15.4	<1	1.5	428	0.66	<0.05	10.25	0.379	0.60	3.2
W599732		16.2	117.5	<0.002	0.18	6.08	11.5	<1	1.8	350	0.85	<0.05	17.85	0.292	1.01	4.7
W599733		19.0	59.8	<0.002	0.39	7.67	17.5	<1	1.6	404	0.66	<0.05	10.75	0.394	0.74	3.5
W599734		18.0	62.8	<0.002	0.39	7.68	17.4	<1	1.6	410	0.67	<0.05	11.25	0.402	0.77	3.7
W599735		18.6	100.5	<0.002	0.40	7.91	18.9	<1	1.6	365	0.70	<0.05	13.20	0.407	0.85	3.8
W599736		25.8	102.0	<0.002	0.60	6.87	14.8	<1	1.7	345	0.73	<0.05	14.65	0.340	0.84	4.5
W599737		14.9	146.5	<0.002	0.56	3.34	8.2	<1	1.8	320	0.85	<0.05	19.50	0.234	0.90	5.6
W599738		12.4	111.0	<0.002	0.46	2.76	16.5	<1	1.7	372	0.68	<0.05	12.55	0.360	0.76	4.1
W599739		15.6	58.2	<0.002	0.23	1.87	18.9	<1	1.7	369	0.64	<0.05	11.15	0.391	0.53	3.4
W599740		25.2	119.0	<0.002	0.11	2.46	11.1	<1	1.7	300	0.70	<0.05	16.15	0.302	0.69	4.4
W599741		9220	111.5	<0.002	>10.0	227	6.7	2	10.6	88.1	0.33	1.93	6.88	0.143	1.77	4.5
W599742		29.0	148.0	<0.002	0.03	2.49	10.2	<1	2.0	284	0.80	<0.05	19.00	0.260	0.83	5.2
W599743		19.5	146.5	<0.002	0.02	1.80	13.3	1	1.9	279	0.77	<0.05	17.55	0.304	0.81	5.1
W599744		23.8	149.5	<0.002	0.02	2.68	10.5	1	1.9	307	0.83	<0.05	18.90	0.275	0.93	5.3

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 23-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20208130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599705		162	1.7	20.4	158	115.0	<0.005
W599706		156	6.5	20.5	120	118.0	<0.005
W599707		140	3.7	21.5	75	136.0	<0.005
W599708		144	3.9	21.3	79	134.0	<0.005
W599709		134	1.5	19.2	81	134.0	<0.005
W599710		67	5.9	11.7	3010	28.1	0.628
W599711		134	2.8	21.9	86	139.5	<0.005
W599712		134	1.5	21.7	48	138.0	<0.005
W599713		134	1.5	22.3	58	137.5	<0.005
W599714		128	2.2	20.1	79	141.0	<0.005
W599715		106	2.8	24.4	71	146.5	<0.005
W599716		118	1.4	19.8	68	133.0	0.005
W599717		138	1.3	20.6	78	136.5	<0.005
W599718		129	2.8	22.0	74	144.5	<0.005
W599719		116	1.9	20.5	57	131.0	<0.005
W599720		110	1.3	21.2	56	136.5	<0.005
W599721		113	1.4	20.7	51	136.0	<0.005
W599722		111	2.1	22.0	49	140.5	0.005
W599723		116	1.8	21.9	56	143.5	<0.005
W599724		157	1.6	22.0	63	140.0	0.005
W599725		172	1.6	21.8	83	146.0	<0.005
W599726		130	1.3	23.6	70	139.5	<0.005
W599727		137	1.4	22.7	67	138.0	<0.005
W599728		1	0.1	2.0	3	1.6	<0.005
W599729		125	1.5	19.5	75	130.5	<0.005
W599730		141	2.1	19.4	120	135.0	<0.005
W599731		146	1.9	18.1	80	132.5	<0.005
W599732		85	1.5	22.4	63	139.0	<0.005
W599733		147	1.6	20.1	91	138.0	<0.005
W599734		150	1.6	20.8	94	142.0	<0.005
W599735		148	1.7	22.5	129	141.5	<0.005
W599736		109	1.7	23.1	98	138.0	<0.005
W599737		47	1.4	24.3	27	139.0	<0.005
W599738		138	1.6	22.3	61	141.5	<0.005
W599739		146	1.5	20.9	82	138.0	<0.005
W599740		89	1.5	22.2	77	127.5	<0.005
W599741		49	4.3	9.0	>10000	21.1	2.81
W599742		71	1.6	24.5	77	136.5	<0.005
W599743		88	1.7	25.3	91	141.5	0.006
W599744		70	1.6	24.3	64	145.0	<0.005

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Project: Klaza

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CERTIFICATE OF ANALYSIS WH20208130

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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CERTIFICATE WH20208132

Project: Klaza

P.O. No.: Batch 18

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 18-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20208132

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599745		4.71		0.07	8.04	57.1	1560	1.58	0.17	1.27	0.08	61.9	7.9	23	6.30	10.9
W599746		5.14		0.09	7.53	65.6	1380	1.65	0.16	1.38	0.17	63.7	6.0	19	6.61	8.4
W599747		5.19		0.09	7.43	51.9	1230	1.68	0.19	2.21	0.21	54.7	7.7	20	6.71	9.7
W599748		4.98		0.53	8.10	168.5	1230	1.54	0.21	1.33	1.70	53.0	9.8	24	10.35	14.5
W599749		4.80		0.50	7.87	124.5	1050	1.61	0.15	1.47	0.84	37.8	12.8	26	6.80	19.3
W599750		5.39		1.15	7.91	233	950	1.66	0.17	1.47	1.82	47.9	14.2	25	8.57	18.7
W599751		4.91		1.52	7.88	93.6	1160	1.57	0.14	2.77	3.94	45.4	15.6	30	8.15	23.0
W599752		5.94		1.22	7.87	25.3	1260	1.51	0.12	3.77	3.02	42.6	15.3	35	7.87	19.9
W599753		0.26		10.05	6.78	2060	180	1.72	6.25	1.79	36.4	46.7	11.8	28	16.10	202
W599754		5.99		1.39	8.01	86.6	1070	1.88	0.18	3.02	1.97	48.2	15.6	29	8.58	20.4
W599755		5.43		2.82	8.69	188.0	1280	1.97	0.20	0.69	4.55	58.3	10.8	25	15.00	19.6
W599756		5.98		1.57	8.30	2590	670	1.88	0.99	0.57	2.04	53.4	18.7	25	17.45	26.0
W599757		4.58		0.64	6.92	626	650	1.44	0.13	0.39	0.22	74.8	4.5	10	12.30	8.6
W599758		1.77		0.63	6.79	684	620	1.43	0.12	0.36	0.22	74.7	3.6	7	12.40	8.7
W599759		6.16		0.62	7.08	413	700	1.55	0.30	0.49	0.75	83.3	1.7	7	11.45	4.5
W599760		5.22		2.29	6.91	505	1000	1.47	0.08	0.44	4.39	83.4	1.5	6	10.90	8.0
W599761		4.70		1.03	7.02	768	840	1.47	0.08	0.23	0.73	80.7	2.0	6	10.40	5.6
W599762		5.08		2.37	6.96	1210	630	1.54	0.11	0.56	3.16	80.9	2.2	5	11.35	9.6
W599763		4.31		2.22	7.07	455	850	1.61	0.07	0.61	1.72	82.0	1.8	6	12.10	5.5
W599764		5.16		1.51	7.11	747	560	1.49	0.13	0.32	0.82	83.9	2.6	6	13.90	5.5
W599765		4.05		1.64	6.91	90.9	580	1.39	0.15	0.38	0.45	78.4	1.7	7	12.60	6.1
W599766		0.26	1.525	94.5	4.65	4080	540	1.07	55.1	1.53	202	32.3	64.2	35	9.33	1285
W599767		5.18		1.83	7.23	246	580	1.33	0.16	0.59	0.94	76.3	1.5	5	11.60	5.2
W599768		4.18		1.28	7.08	268	580	1.39	0.11	0.41	1.66	80.1	2.1	8	13.20	3.6
W599769		4.39		0.56	6.95	293	570	1.58	0.09	0.28	0.43	80.2	2.0	6	13.90	2.8
W599770		4.94		0.72	6.96	455	510	1.41	0.17	0.41	1.41	72.0	1.7	5	11.10	3.2
W599771		2.43		0.86	6.97	956	570	1.53	0.10	0.36	0.49	77.2	1.8	5	13.70	3.1
W599772		3.47		2.14	6.22	2310	580	1.26	0.11	0.74	5.96	59.3	1.6	7	10.40	5.2
W599773		3.65		1.19	6.43	121.5	1520	2.12	0.16	2.55	2.57	36.3	6.7	14	18.70	6.9
W599774		1.96		0.30	6.70	87.6	1010	2.07	0.09	1.85	0.37	49.9	5.0	11	23.0	6.2
W599775		1.58		26.2	5.45	1850	480	1.28	0.42	2.36	67.5	57.4	1.6	5	9.84	36.3
W599776		5.15		0.06	0.22	2.6	30	0.11	0.02	33.7	0.05	1.18	1.7	3	0.09	5.9
W599777		2.28		0.60	6.26	521	480	1.59	0.07	1.39	1.12	76.4	2.4	4	15.15	3.0
W599778		4.77		3.69	5.81	2460	480	1.41	0.09	1.34	6.61	59.5	2.1	5	10.15	6.2
W599779		4.33		0.47	6.51	436	500	1.42	0.06	0.63	0.23	79.9	3.1	5	10.75	2.8
W599780		2.96		0.52	6.93	408	560	1.50	0.04	0.49	0.10	83.0	4.0	6	14.15	2.9
W599781		<0.02		0.49	6.68	398	540	1.49	0.05	0.47	0.09	85.1	3.9	5	13.95	2.9
W599782		4.79		0.47	6.94	443	590	1.36	0.15	0.43	0.24	81.7	4.7	5	13.00	3.7
W599783		2.82		0.71	6.39	1400	930	1.43	0.46	0.48	3.07	72.8	4.7	5	15.95	4.6
W599784		1.60		1.43	7.52	5310	120	1.54	0.29	1.26	0.16	42.5	17.3	24	15.60	18.4

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Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208132

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599745		2.83	16.65	0.09	4.5	0.041	3.02	32.5	6.8	0.48	577	2.73	2.62	9.9	7.6	420
W599746		2.28	15.30	0.09	4.7	0.037	2.82	32.9	8.8	0.48	570	0.99	2.43	10.3	5.6	360
W599747		2.75	17.30	0.10	4.4	0.040	2.64	26.8	10.1	0.69	818	1.57	2.24	10.2	7.1	380
W599748		2.68	18.05	0.10	4.4	0.044	3.15	26.0	17.6	0.47	620	3.21	1.04	9.7	8.5	470
W599749		3.38	18.25	0.06	4.5	0.045	2.57	17.1	46.2	0.39	974	1.53	0.16	9.3	11.6	520
W599750		3.53	17.40	0.08	4.3	0.042	2.37	23.1	44.5	0.56	1390	3.59	0.44	8.3	12.5	530
W599751		3.96	17.85	0.07	4.1	0.046	2.24	21.1	31.0	1.28	1200	3.02	1.47	8.5	14.2	560
W599752		4.18	17.75	0.10	4.1	0.045	2.04	20.4	13.3	1.55	1340	1.41	2.08	8.0	14.6	580
W599753		6.07	15.95	0.09	1.1	0.652	3.02	24.4	45.0	0.76	2110	8.52	0.07	6.3	18.0	550
W599754		3.98	18.55	0.08	4.1	0.048	1.86	23.0	33.6	1.16	1840	1.92	1.06	8.8	14.1	570
W599755		3.16	18.85	0.09	4.1	0.051	3.38	29.2	27.5	0.56	2170	4.98	0.06	9.2	9.2	560
W599756		4.00	18.75	0.08	3.9	0.050	3.99	26.1	7.3	0.41	1260	4.60	0.06	8.8	14.9	520
W599757		1.80	15.00	0.10	3.9	0.022	3.40	39.2	4.3	0.33	1460	25.7	0.05	11.7	3.1	160
W599758		1.53	14.90	0.06	3.9	0.019	3.31	38.9	4.1	0.32	1440	31.5	0.05	11.4	2.4	160
W599759		1.44	16.00	0.08	4.3	0.022	3.54	43.8	4.7	0.36	2110	11.30	0.05	12.9	2.0	100
W599760		1.37	15.70	0.10	4.3	0.032	3.52	43.8	6.1	0.37	1790	1.51	0.05	13.2	1.7	100
W599761		1.35	15.45	0.09	4.0	0.022	3.50	41.5	6.3	0.32	955	1.56	0.05	12.2	1.8	90
W599762		1.41	15.35	0.08	4.1	0.031	3.39	41.9	5.7	0.35	2270	2.68	0.04	12.3	1.7	90
W599763		1.44	15.40	0.08	4.1	0.022	3.46	42.9	5.2	0.38	2320	1.29	0.05	12.5	1.8	110
W599764		1.53	16.50	0.08	4.2	0.024	3.50	44.6	4.9	0.30	2100	1.17	0.04	13.0	2.1	100
W599765		1.41	14.60	0.07	4.0	0.022	3.42	41.2	4.7	0.31	1700	0.85	0.04	12.4	1.8	110
W599766		11.55	12.60	0.09	0.8	4.17	1.98	17.3	31.3	0.53	1950	17.35	0.15	4.5	16.4	380
W599767		1.29	13.85	0.11	3.8	0.024	3.51	39.5	5.1	0.35	2800	1.36	0.05	12.0	1.4	120
W599768		1.35	15.95	0.09	4.1	0.023	3.48	42.2	5.5	0.31	1910	2.46	0.04	13.2	1.8	120
W599769		1.25	15.65	0.09	4.4	0.025	3.37	42.0	4.7	0.27	2090	1.14	0.04	14.1	1.5	120
W599770		1.22	14.20	0.11	3.7	0.025	3.33	37.1	4.3	0.28	8770	2.06	0.04	11.6	1.4	120
W599771		1.33	16.10	0.09	4.1	0.022	3.33	38.7	4.7	0.25	8580	1.10	0.04	13.0	1.7	100
W599772		1.72	13.60	0.06	3.2	0.032	2.95	30.7	6.0	0.23	13100	1.43	0.04	9.5	1.5	100
W599773		1.96	20.0	0.05	4.0	0.030	3.20	15.9	13.9	0.34	3980	2.44	0.05	10.3	6.5	1060
W599774		1.92	17.70	0.06	4.0	0.022	3.15	24.3	10.6	0.38	1910	2.23	0.04	11.2	4.3	630
W599775		1.98	13.45	0.06	3.2	0.022	2.76	28.4	7.4	0.38	12350	6.67	0.04	9.8	1.3	80
W599776		0.26	0.59	<0.05	0.1	0.007	0.06	1.2	1.5	1.66	132	0.85	0.08	0.2	3.0	80
W599777		1.46	13.20	0.18	3.4	0.016	3.01	40.6	7.1	0.48	4670	3.06	0.04	11.0	1.7	100
W599778		1.29	12.45	0.17	3.4	0.018	3.02	28.3	5.5	0.28	13150	1.61	0.04	10.8	2.0	80
W599779		1.43	12.85	0.18	3.6	0.015	3.31	42.4	4.5	0.39	2120	1.78	0.04	11.4	2.2	80
W599780		1.83	14.25	0.13	3.9	0.017	3.46	44.4	4.3	0.36	1600	6.50	0.04	12.4	2.7	100
W599781		1.66	14.20	0.17	3.9	0.017	3.38	43.2	4.3	0.35	1530	6.35	0.04	12.5	2.5	100
W599782		2.06	13.30	0.16	3.9	0.019	3.43	41.9	4.0	0.33	1280	5.56	0.04	11.6	3.2	100
W599783		1.82	12.95	0.17	3.5	0.022	2.97	37.6	7.2	0.25	1400	0.63	0.06	10.1	3.1	120
W599784		6.24	15.50	0.16	2.6	0.040	3.50	18.7	8.0	0.30	2730	2.75	0.16	6.9	15.4	430

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 23-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208132

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599745		18.1	141.5	<0.002	0.08	4.39	10.9	<1	2.0	305	0.80	<0.05	18.00	0.283	0.99	4.8
W599746		17.3	132.0	<0.002	0.16	5.92	8.4	<1	1.8	275	0.84	<0.05	19.00	0.247	0.99	4.7
W599747		21.2	109.0	<0.002	0.23	6.14	9.5	<1	2.1	331	0.79	<0.05	16.55	0.254	1.08	5.1
W599748		68.6	143.5	0.002	0.65	27.4	13.1	1	2.0	174.5	0.74	<0.05	15.80	0.320	2.16	5.0
W599749		57.7	92.1	<0.002	0.64	31.8	14.1	1	2.0	115.0	0.71	<0.05	12.10	0.349	2.39	5.5
W599750		134.5	91.6	<0.002	0.94	52.0	14.9	<1	1.8	136.5	0.66	<0.05	13.05	0.347	3.40	4.5
W599751		187.0	72.0	<0.002	0.92	25.6	17.0	1	1.9	289	0.63	<0.05	11.95	0.370	2.64	4.0
W599752		159.0	60.5	<0.002	0.72	18.80	17.1	<1	1.7	421	0.61	<0.05	11.00	0.378	1.88	3.6
W599753		1855	173.0	<0.002	3.53	51.6	9.5	1	6.4	82.1	0.52	0.27	11.90	0.211	2.66	4.8
W599754		162.0	68.9	<0.002	0.87	37.8	17.2	<1	1.8	284	0.65	<0.05	12.40	0.368	2.52	4.3
W599755		367	182.5	<0.002	0.84	44.9	16.1	<1	2.2	39.1	0.70	<0.05	15.80	0.362	4.60	4.9
W599756		153.5	221	0.003	2.99	36.8	16.1	1	2.2	24.4	0.70	<0.05	15.50	0.345	5.14	5.2
W599757		40.3	184.5	0.011	1.14	21.8	6.3	1	1.9	20.9	1.05	<0.05	26.2	0.134	3.33	6.7
W599758		34.5	184.0	0.011	0.97	21.9	5.9	<1	2.1	19.7	1.05	<0.05	26.3	0.126	3.30	6.9
W599759		60.1	203	<0.002	0.61	21.3	5.0	<1	2.1	26.2	1.21	<0.05	29.7	0.112	3.93	7.6
W599760		205	208	<0.002	0.59	42.5	5.3	<1	2.3	33.7	1.19	<0.05	29.8	0.114	3.91	7.3
W599761		54.8	207	<0.002	0.45	24.2	5.1	1	1.7	24.2	1.13	<0.05	28.2	0.112	3.85	6.6
W599762		97.3	206	<0.002	0.67	33.9	5.2	1	1.9	18.0	1.14	<0.05	28.5	0.112	4.54	5.8
W599763		65.3	202	<0.002	0.57	22.4	5.3	<1	2.0	21.9	1.16	<0.05	29.0	0.115	4.23	6.0
W599764		62.8	208	<0.002	0.82	21.6	5.6	<1	1.9	17.1	1.19	<0.05	29.0	0.116	3.90	6.5
W599765		67.6	195.5	<0.002	0.53	15.25	5.2	1	1.7	16.2	1.15	<0.05	29.2	0.115	3.33	6.0
W599766		9400	120.5	0.002	>10.0	230	7.3	3	11.6	96.0	0.36	2.05	7.69	0.147	1.83	4.8
W599767		153.5	197.0	<0.002	0.65	19.95	5.0	<1	2.0	18.8	1.06	<0.05	26.7	0.118	4.56	7.1
W599768		107.5	196.5	<0.002	0.62	22.6	5.5	1	2.3	15.4	1.17	<0.05	28.6	0.118	3.83	5.6
W599769		65.4	199.5	<0.002	0.71	19.55	5.4	1	2.5	15.9	1.21	<0.05	29.6	0.113	4.15	6.4
W599770		118.0	179.0	<0.002	0.59	20.3	4.8	<1	2.1	14.5	1.03	<0.05	26.8	0.111	4.00	6.2
W599771		55.9	184.5	<0.002	0.69	20.2	5.2	<1	1.8	15.7	1.15	<0.05	28.0	0.111	3.51	6.1
W599772		239	132.0	<0.002	0.94	27.7	4.3	<1	1.4	17.5	0.89	<0.05	22.3	0.103	2.70	5.2
W599773		154.0	110.0	<0.002	0.93	26.4	4.4	<1	1.9	107.5	0.71	<0.05	7.30	0.306	3.32	4.6
W599774		34.7	139.0	<0.002	0.58	16.65	4.3	1	1.6	86.0	0.93	<0.05	15.25	0.215	2.67	6.1
W599775		4050	138.0	<0.002	1.36	61.2	3.6	<1	0.9	39.6	0.91	<0.05	22.2	0.091	2.56	4.7
W599776		5.2	1.8	<0.002	0.01	0.55	0.5	2	0.2	84.8	<0.05	<0.05	0.11	0.013	0.03	0.2
W599777		48.0	183.0	<0.002	0.67	15.75	4.8	1	0.8	42.6	0.96	<0.05	24.5	0.102	2.73	5.1
W599778		257	128.5	0.003	0.46	39.8	4.6	<1	1.3	22.8	0.94	<0.05	20.7	0.099	3.01	4.7
W599779		21.5	168.5	<0.002	0.83	12.35	4.9	1	1.2	24.3	0.99	<0.05	28.2	0.105	2.77	5.3
W599780		18.6	184.0	0.002	1.11	14.25	5.1	1	1.3	22.4	1.07	<0.05	32.6	0.111	3.09	5.4
W599781		15.8	185.0	<0.002	1.07	14.35	5.0	<1	1.3	22.1	1.07	<0.05	30.2	0.109	2.87	5.1
W599782		17.5	176.5	<0.002	1.35	13.75	5.0	1	1.3	21.9	1.06	<0.05	30.8	0.108	2.95	5.4
W599783		35.2	145.5	<0.002	1.16	19.40	5.3	1	1.3	25.4	0.89	<0.05	24.6	0.100	3.11	5.8
W599784		40.6	171.0	<0.002	5.60	42.5	15.4	1	1.4	40.9	0.51	<0.05	10.80	0.320	5.53	3.4

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 23-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20208132

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599745		74	1.5	23.6	69	139.0	<0.005
W599746		54	1.4	22.3	55	140.5	<0.005
W599747		68	1.3	21.1	64	135.0	<0.005
W599748		98	1.9	20.4	129	142.5	<0.005
W599749		109	2.7	17.4	118	147.5	<0.005
W599750		115	4.3	19.6	187	136.5	<0.005
W599751		125	2.9	21.0	319	142.0	<0.005
W599752		132	1.3	20.3	268	136.5	<0.005
W599753		66	6.0	11.6	3020	30.1	0.610
W599754		125	2.8	21.2	191	137.0	0.006
W599755		114	3.0	21.4	351	137.5	0.007
W599756		127	5.9	19.1	176	125.0	0.012
W599757		26	3.6	17.3	44	107.0	0.018
W599758		23	3.0	17.1	42	103.5	0.018
W599759		13	2.0	18.8	80	109.0	0.012
W599760		15	1.8	19.8	434	108.5	0.008
W599761		16	1.7	17.6	91	103.5	0.010
W599762		16	1.9	16.6	290	103.5	0.028
W599763		16	1.8	17.8	169	106.0	0.018
W599764		17	2.6	19.3	92	110.0	0.049
W599765		19	1.5	16.4	61	106.5	0.012
W599766		49	4.7	10.0	>10000	23.8	2.93
W599767		16	1.6	17.6	113	102.5	0.026
W599768		19	1.9	17.0	161	107.5	0.031
W599769		15	2.3	18.9	52	112.5	0.030
W599770		16	1.8	18.5	153	98.5	0.095
W599771		19	2.7	19.0	59	103.5	0.314
W599772		15	2.5	15.2	646	81.0	0.891
W599773		56	2.1	8.1	238	147.0	0.035
W599774		36	2.3	10.2	59	129.5	0.019
W599775		13	2.8	14.8	4310	80.8	0.384
W599776		4	0.2	2.2	10	1.9	<0.005
W599777		16	3.1	14.9	100	97.5	0.123
W599778		14	2.9	16.1	443	93.7	0.593
W599779		15	2.7	17.1	29	97.5	0.044
W599780		15	3.7	17.6	11	106.0	0.038
W599781		14	3.8	16.8	11	105.5	0.036
W599782		17	3.5	17.7	30	102.0	0.034
W599783		31	3.0	14.5	388	96.2	0.027
W599784		117	7.2	17.2	30	88.9	0.037

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 23-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20208132

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 2-DEC-2020
Account: ROCKHA

CERTIFICATE WH20215126

Project: Klaza

P.O. No.: Batch 19

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 2-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215126

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599785		3.37		0.35	8.37	50.1	770	1.34	0.13	3.67	0.11	41.5	16.6	25	14.60	22.5
W599786		2.95		0.22	7.49	1750	800	1.57	0.09	2.78	0.12	33.2	12.0	17	21.6	15.7
W599787		4.27		0.16	8.27	1620	920	1.69	0.07	2.31	0.16	37.4	12.5	17	19.20	13.6
W599788		4.28		0.28	7.23	1160	720	1.58	0.24	4.77	0.30	29.5	19.8	27	21.6	14.1
W599789		1.89		2.50	7.73	6340	750	1.58	0.69	3.13	4.13	51.8	16.4	19	22.6	33.9
W599790		5.43		0.20	7.60	217	990	1.76	0.59	4.24	0.16	50.1	12.9	22	22.9	13.0
W599791		4.66		0.06	7.97	41.4	1630	1.35	0.30	4.40	0.08	53.5	16.3	24	22.7	7.5
W599792		4.97		0.07	8.03	28.9	1680	1.31	0.30	3.66	0.06	53.2	15.7	25	17.45	8.5
W599793		0.26		9.96	6.67	1950	250	1.45	5.76	1.75	38.4	46.7	10.7	29	17.45	195.5
W599794		3.77		0.25	8.43	28.8	1560	1.39	0.33	3.26	0.10	58.5	16.7	27	17.50	17.8
W599795		3.56		0.28	7.57	101.0	940	2.00	0.59	2.66	0.09	36.0	11.3	24	19.45	15.6
W599796		4.43		0.36	6.66	97.4	480	3.49	0.60	1.33	0.33	17.55	0.8	2	17.80	3.2
W599797		3.20		0.50	7.33	79.0	680	3.00	0.21	1.39	0.24	37.3	2.9	7	21.8	4.4
W599798		4.27		0.24	7.64	24.0	910	2.24	0.13	3.16	0.16	65.6	6.0	15	20.2	13.7
W599799		5.06		4.77	7.02	65.2	330	3.26	0.22	0.71	7.25	19.10	0.5	1	28.6	6.0
W599800		4.53		0.43	7.01	47.2	310	3.49	0.34	0.58	0.33	19.15	0.1	1	23.5	1.4
W599801		5.65		0.30	6.92	38.8	220	3.55	0.21	0.49	0.46	19.40	0.1	1	23.4	1.4
W599802		0.26	1.475	97.7	4.75	4100	500	1.08	55.4	1.58	200	29.9	60.0	36	9.50	1320
W599803		5.19		0.81	6.84	126.5	570	2.60	0.52	2.25	0.63	26.3	6.5	12	19.95	13.7
W599804		6.01		0.13	7.90	16.5	1060	1.66	0.83	3.41	0.18	55.9	16.3	23	23.4	13.6
W599805		5.23		0.14	8.36	39.7	730	1.96	0.93	1.79	0.17	48.1	15.4	24	21.3	11.3
W599806		5.03		1.00	7.37	851	650	1.87	1.16	3.11	0.23	62.9	16.1	19	19.70	31.6
W599807		5.88		0.14	7.72	358	560	2.13	0.43	4.22	0.13	76.0	12.9	21	29.4	5.3
W599808		5.35		0.10	7.56	54.9	660	1.95	0.74	2.27	0.10	56.1	11.8	18	16.85	12.7
W599809		4.38		0.17	8.14	15.9	920	1.82	4.17	1.04	0.10	84.1	3.9	6	14.40	4.0
W599810		<0.02		0.15	8.03	15.2	900	1.90	4.06	1.01	0.11	82.1	3.7	6	14.20	3.9
W599811		5.22		0.14	7.92	17.9	1140	1.63	2.77	1.53	0.30	64.1	10.1	15	13.95	12.7
W599812		4.88		0.19	8.14	15.9	1510	1.90	1.95	2.05	0.51	63.4	9.7	14	13.25	12.4
W599813		4.14		0.24	8.76	12.6	920	2.04	1.34	1.56	0.34	86.9	3.2	8	10.75	5.5
W599814		4.96		0.33	6.37	20.1	690	1.66	1.17	2.56	0.21	59.3	4.2	6	9.39	23.2
W599815		5.48		0.09	6.09	19.5	1200	1.57	0.67	2.05	0.11	58.1	4.2	5	13.65	3.7
W599816		5.24		<0.01	0.10	0.2	20	0.08	0.05	31.7	0.02	1.20	0.6	1	0.07	1.2
W599817		5.54		0.06	6.99	15.5	1510	1.51	0.51	1.04	0.08	76.4	3.2	6	11.90	2.4
W599818		4.95		0.20	6.87	26.1	1240	1.37	0.53	1.29	0.57	75.0	3.7	5	10.75	7.2
W599819		4.72		0.07	7.16	18.0	1210	1.33	0.28	1.63	0.11	74.4	2.8	5	6.65	4.0
W599820		4.77		0.13	7.08	13.5	1380	1.56	0.40	1.67	0.17	71.2	3.4	5	6.60	15.9
W599821		5.20		0.16	8.46	16.6	720	2.01	0.30	2.25	0.23	72.7	10.1	14	14.35	16.6
W599822		4.58		0.14	7.44	17.9	1630	1.53	0.20	2.27	0.53	52.5	10.8	15	12.40	15.5
W599823		5.14		0.10	7.63	17.3	1610	1.53	0.23	1.77	0.10	61.4	10.2	14	10.95	17.9
W599824		1.99		0.13	7.96	17.6	1270	1.47	0.28	1.96	0.15	65.7	11.1	15	11.35	17.9

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215126

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599785		4.46	17.15	0.08	3.0	0.051	2.81	20.2	13.4	1.01	2470	0.78	0.96	6.3	13.0	710
W599786		4.10	16.65	0.08	3.6	0.049	3.43	14.6	8.4	0.49	1940	0.84	0.29	6.9	8.2	650
W599787		4.22	17.70	0.09	3.9	0.053	3.31	16.7	8.7	0.52	1830	1.04	0.83	7.4	7.1	690
W599788		4.72	15.00	0.07	1.6	0.045	3.08	13.9	9.3	0.67	4080	1.00	0.17	4.6	14.6	650
W599789		3.86	16.55	0.09	3.0	0.088	3.51	24.7	7.8	0.83	3830	1.43	0.07	8.0	10.7	480
W599790		3.23	16.75	0.11	3.5	0.059	3.20	22.8	12.7	0.75	2310	7.48	0.12	8.3	7.6	580
W599791		4.13	16.50	0.10	3.6	0.063	2.83	25.8	15.8	1.50	1320	0.40	0.33	8.4	8.8	570
W599792		4.09	17.05	0.11	3.8	0.069	3.03	23.3	16.2	1.49	1180	0.45	0.42	8.4	8.7	580
W599793		6.01	15.05	0.09	1.0	0.690	2.89	24.8	44.8	0.74	2030	8.90	0.06	6.2	17.3	520
W599794		4.52	18.85	0.14	4.1	0.055	2.57	26.4	22.3	1.82	1210	0.49	0.84	8.9	10.1	610
W599795		3.08	19.60	0.15	4.4	0.055	3.71	16.3	13.6	0.59	1390	0.85	0.06	10.0	7.5	600
W599796		0.91	21.4	0.12	3.3	0.027	2.96	7.6	10.2	0.53	2450	2.05	0.06	24.9	0.7	30
W599797		1.38	21.2	0.14	3.7	0.018	2.91	19.5	18.7	0.57	1500	2.61	0.05	17.4	3.1	530
W599798		2.80	20.4	0.17	4.4	0.028	2.35	36.0	33.1	1.25	2510	1.68	0.05	11.0	5.9	1160
W599799		0.76	21.6	0.11	3.4	0.018	2.91	8.7	9.6	0.30	2760	1.28	0.04	26.2	0.6	40
W599800		0.64	21.9	0.12	3.3	0.028	3.04	8.5	8.4	0.31	1050	0.98	0.04	24.3	0.3	20
W599801		0.60	22.1	0.12	3.2	0.024	3.01	8.6	10.3	0.25	1180	1.18	0.04	19.4	0.4	10
W599802		11.60	12.35	0.13	0.7	4.26	1.94	15.9	31.3	0.54	1960	17.40	0.15	4.2	15.9	380
W599803		1.87	18.95	0.08	3.6	0.031	2.77	10.6	23.2	0.35	1600	0.93	0.04	15.7	4.0	290
W599804		4.67	19.25	0.17	4.2	0.050	2.78	25.8	23.3	1.18	1890	0.43	0.54	9.3	9.8	580
W599805		3.95	20.4	0.16	4.3	0.047	3.24	20.9	25.6	0.73	1920	0.42	0.06	10.0	10.1	580
W599806		4.91	17.55	0.14	3.5	0.059	2.93	27.0	19.1	1.14	3200	0.85	0.04	8.4	10.3	490
W599807		3.98	18.90	0.16	3.8	0.058	2.57	25.7	24.1	1.08	2220	0.22	0.29	8.8	8.2	560
W599808		3.33	18.85	0.14	4.1	0.055	2.99	25.0	23.6	0.79	1630	0.26	0.06	10.9	8.2	450
W599809		1.89	18.10	0.20	4.3	0.054	3.99	45.0	13.3	0.73	708	0.22	0.05	14.7	2.9	240
W599810		1.88	18.25	0.18	4.1	0.050	3.90	42.8	13.4	0.72	691	0.21	0.05	14.1	2.9	230
W599811		2.62	17.40	0.17	4.2	0.058	3.32	34.7	23.2	0.81	1080	0.21	0.33	11.1	7.1	450
W599812		3.05	17.55	0.18	4.4	0.043	2.62	31.9	15.8	0.95	1240	0.23	1.95	11.7	7.3	440
W599813		1.70	18.15	0.17	4.6	0.040	3.96	46.3	8.2	0.54	604	2.77	0.80	14.8	2.6	220
W599814		1.59	16.15	0.17	3.9	0.037	2.62	27.9	8.3	0.37	730	0.91	1.19	12.8	3.1	200
W599815		1.50	15.10	0.16	3.5	0.036	2.40	28.1	16.7	0.37	759	0.48	0.59	12.1	3.2	200
W599816		0.12	0.43	0.22	0.1	<0.005	0.04	1.2	1.4	1.55	90	0.07	0.04	0.1	0.9	60
W599817		1.53	15.95	0.27	3.9	0.039	2.63	40.6	21.5	0.36	664	0.35	0.28	12.9	2.4	220
W599818		1.45	16.35	0.26	3.9	0.038	2.75	39.3	20.3	0.55	950	1.92	0.05	13.0	2.6	180
W599819		1.37	17.00	0.20	4.1	0.037	3.05	37.3	23.2	0.36	792	0.68	0.12	13.4	2.5	190
W599820		1.43	18.85	0.22	4.5	0.041	3.32	34.2	13.5	0.33	692	1.05	0.50	15.0	2.3	190
W599821		2.93	19.60	0.19	4.6	0.065	3.39	38.1	21.7	0.76	1040	1.82	0.44	12.3	7.0	430
W599822		2.95	16.60	0.17	4.2	0.039	2.36	26.4	21.1	0.68	1200	0.97	1.00	10.3	7.6	470
W599823		3.13	17.70	0.16	4.0	0.038	2.57	31.8	24.5	0.84	1090	0.72	0.86	11.3	8.0	430
W599824		3.43	18.25	0.17	4.3	0.039	2.70	34.6	24.5	0.93	1130	0.84	0.90	11.5	8.4	460

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599785		12.0	153.0	<0.002	0.20	9.61	19.4	1	1.2	146.0	0.45	<0.05	8.38	0.433	2.74	3.0
W599786		17.5	166.5	<0.002	2.27	18.85	16.1	<1	1.3	87.0	0.51	<0.05	8.63	0.396	5.05	3.2
W599787		23.1	163.0	<0.002	1.20	14.00	17.0	<1	1.5	124.5	0.53	<0.05	9.52	0.413	3.49	3.4
W599788		25.7	152.0	<0.002	3.25	21.0	19.8	<1	1.3	125.5	0.30	<0.05	4.64	0.407	4.78	1.9
W599789		268	195.5	<0.002	2.44	48.2	17.6	<1	2.6	90.8	0.58	0.05	12.00	0.346	3.40	3.1
W599790		18.5	164.5	<0.002	0.38	13.45	18.7	<1	1.9	108.0	0.58	0.08	10.00	0.383	3.56	2.9
W599791		10.9	159.0	<0.002	0.15	7.70	19.2	1	1.9	136.0	0.58	<0.05	10.90	0.401	3.65	3.1
W599792		9.6	136.5	<0.002	0.17	7.23	20.1	1	2.3	126.5	0.60	<0.05	10.65	0.421	2.86	2.9
W599793		1770	166.5	0.003	3.53	50.1	9.1	1	6.1	80.7	0.49	0.23	10.90	0.213	2.54	4.2
W599794		14.8	128.5	<0.002	0.31	9.10	21.1	<1	2.0	177.0	0.74	0.12	11.40	0.421	3.11	3.6
W599795		24.3	188.0	<0.002	0.62	14.70	19.2	<1	2.2	120.5	0.77	<0.05	9.60	0.410	3.96	7.7
W599796		47.8	176.0	<0.002	0.45	10.55	3.7	<1	3.7	78.5	2.55	<0.05	21.2	0.042	4.09	10.3
W599797		26.1	159.0	<0.002	0.54	19.80	4.7	<1	2.6	57.3	1.77	<0.05	16.70	0.164	2.86	7.9
W599798		19.6	115.5	<0.002	0.32	27.5	6.0	<1	1.7	92.2	0.76	<0.05	9.97	0.326	2.21	5.9
W599799		352	181.0	<0.002	0.55	16.65	3.4	<1	3.6	34.6	2.75	<0.05	23.1	0.038	2.98	12.1
W599800		62.5	184.0	<0.002	0.46	9.56	3.3	<1	3.6	37.0	2.72	<0.05	23.3	0.034	3.21	9.9
W599801		50.7	184.0	<0.002	0.43	12.35	3.4	<1	3.8	29.4	2.62	<0.05	23.6	0.033	2.93	12.0
W599802		9660	106.0	0.002	>10.0	229	7.1	2	11.3	96.0	0.39	2.24	7.00	0.144	2.04	4.8
W599803		76.2	139.5	<0.002	0.34	16.60	10.1	<1	2.8	89.1	1.64	<0.05	13.95	0.208	3.10	8.2
W599804		48.2	152.5	<0.002	0.03	11.60	21.7	<1	2.2	178.0	0.71	<0.05	11.35	0.405	3.26	4.2
W599805		33.1	183.0	<0.002	0.13	15.55	21.3	<1	2.0	68.1	0.77	<0.05	11.80	0.411	3.68	4.0
W599806		38.8	183.0	<0.002	1.83	27.7	19.1	1	2.5	82.4	0.63	0.05	11.20	0.343	3.50	3.7
W599807		22.0	136.0	<0.002	0.63	14.00	21.1	<1	1.6	163.0	0.66	<0.05	11.60	0.376	3.33	3.9
W599808		25.3	149.0	<0.002	0.33	14.90	15.9	<1	2.0	79.9	0.87	<0.05	15.60	0.329	3.07	5.4
W599809		31.7	241	<0.002	0.07	9.13	7.6	1	4.2	43.1	1.24	<0.05	27.1	0.185	3.20	7.2
W599810		30.0	236	<0.002	0.06	8.76	7.5	<1	4.0	41.7	1.17	<0.05	25.2	0.179	2.93	6.8
W599811		29.9	172.5	<0.002	0.05	8.54	12.6	<1	3.5	98.9	0.91	<0.05	19.70	0.302	2.48	5.7
W599812		38.4	129.0	<0.002	0.07	6.27	11.8	<1	2.2	259	0.99	<0.05	19.95	0.298	1.84	6.4
W599813		35.1	209	0.002	0.09	5.59	6.4	1	2.8	105.0	1.30	<0.05	28.5	0.186	2.44	7.9
W599814		106.5	137.5	<0.002	0.10	6.62	6.8	<1	2.4	135.0	1.09	0.08	21.1	0.168	1.85	6.7
W599815		20.1	117.5	<0.002	0.15	6.51	6.1	<1	2.2	98.8	1.01	<0.05	20.6	0.153	1.77	5.7
W599816		0.6	1.3	<0.002	<0.01	0.06	0.2	<1	<0.2	84.2	<0.05	<0.05	0.14	<0.005	0.02	0.3
W599817		12.4	139.5	<0.002	0.13	7.58	7.0	<1	2.2	49.5	1.14	<0.05	25.4	0.170	1.85	7.0
W599818		78.5	144.5	<0.002	0.16	9.85	6.4	1	2.3	51.6	1.13	0.06	24.3	0.149	1.87	7.1
W599819		15.4	151.0	<0.002	0.09	7.24	6.6	<1	2.5	45.9	1.17	<0.05	25.4	0.162	1.78	7.6
W599820		24.7	172.5	<0.002	0.05	6.23	6.6	<1	2.8	65.1	1.31	<0.05	24.5	0.165	1.97	7.2
W599821		37.0	177.0	0.002	0.60	9.21	12.8	<1	4.0	132.5	1.07	0.06	22.5	0.305	2.48	6.4
W599822		38.3	106.5	<0.002	0.83	9.51	12.4	<1	1.6	194.0	0.89	0.08	16.90	0.310	1.70	5.3
W599823		25.9	127.0	<0.002	0.55	8.88	12.2	<1	1.9	194.5	0.94	0.05	18.55	0.288	1.74	5.7
W599824		32.8	135.0	<0.002	0.66	8.30	12.9	1	1.9	205	0.93	0.06	19.15	0.302	1.91	5.8

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215126

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-AA24 Au ppm 0.005
W599785		153	3.8	20.3	89	117.0	<0.005
W599786		139	2.5	18.1	48	139.5	0.020
W599787		144	1.5	19.8	64	151.0	0.007
W599788		161	2.0	15.7	96	62.9	<0.005
W599789		124	2.9	19.2	428	109.5	0.015
W599790		134	2.0	18.9	65	136.5	<0.005
W599791		134	1.5	19.6	78	142.0	<0.005
W599792		145	2.0	19.9	78	144.5	<0.005
W599793		66	5.7	12.4	2850	29.5	0.603
W599794		135	2.2	20.3	85	150.0	0.006
W599795		147	2.3	16.8	59	159.0	<0.005
W599796		4	1.3	14.8	47	64.7	<0.005
W599797		27	1.0	12.6	62	112.0	0.007
W599798		57	1.5	12.3	93	173.5	<0.005
W599799		1	0.6	17.6	610	63.2	0.007
W599800		<1	0.6	15.4	52	62.4	<0.005
W599801		<1	0.5	16.2	56	63.4	<0.005
W599802		49	4.8	9.0	>10000	22.2	2.93
W599803		66	1.8	15.4	116	94.5	0.005
W599804		136	2.3	19.4	133	154.5	<0.005
W599805		142	2.8	18.1	146	154.5	<0.005
W599806		118	2.7	19.9	140	128.0	0.018
W599807		135	2.8	19.8	137	140.0	<0.005
W599808		97	2.8	19.0	84	140.0	<0.005
W599809		35	1.9	22.8	52	124.0	<0.005
W599810		35	1.8	22.4	51	122.5	<0.005
W599811		72	3.1	20.4	80	140.5	<0.005
W599812		81	2.1	19.9	123	140.0	<0.005
W599813		27	2.1	23.2	62	132.5	<0.005
W599814		34	1.7	17.6	60	112.5	<0.005
W599815		31	1.5	17.1	51	102.0	<0.005
W599816		<1	0.1	2.1	3	2.0	<0.005
W599817		29	1.8	19.9	45	113.0	<0.005
W599818		28	1.7	19.6	72	105.5	<0.005
W599819		28	1.9	18.3	43	116.0	<0.005
W599820		28	2.1	19.0	49	129.0	<0.005
W599821		82	2.9	21.8	99	149.0	<0.005
W599822		84	2.9	18.9	112	139.0	<0.005
W599823		78	3.4	20.1	82	135.0	<0.005
W599824		82	3.6	21.2	90	139.0	<0.005

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 2-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215126

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 28-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215130

Project: Klaza

P.O. No.: Batch 20

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 28-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215130

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599825		5.15		0.22	7.42	25.6	1270	1.63	0.39	2.51	0.15	60.3	12.7	18	14.40	18.4
W599826		5.01		0.09	7.10	18.0	910	1.77	0.16	2.01	0.30	61.0	7.2	12	16.15	12.8
W599827		4.68		0.10	7.47	22.6	1270	1.75	0.32	1.77	0.32	76.3	7.1	11	12.45	12.4
W599828		4.66		0.20	7.44	35.9	850	1.64	0.17	1.33	0.17	69.7	6.0	10	15.35	14.3
W599829		0.26		9.96	6.57	1960	170	1.52	6.17	1.73	38.8	46.2	11.1	29	18.00	198.0
W599830		5.36		0.38	7.53	77.6	750	1.92	0.52	0.60	0.42	79.7	5.1	9	12.35	7.5
W599831		4.58		0.74	7.05	213	740	1.64	0.44	0.26	0.82	93.3	1.7	6	8.97	12.4
W599832		4.93		0.32	6.78	193.0	670	1.40	0.41	0.30	0.36	83.9	1.1	5	9.34	5.2
W599833		5.66		0.14	7.21	39.4	690	1.47	0.34	0.65	0.22	91.5	1.2	5	11.70	2.5
W599834		4.79		0.10	8.02	58.8	840	2.04	0.24	0.96	0.06	74.6	9.2	14	18.10	12.5
W599835		4.85		0.08	6.91	18.0	1750	1.69	0.22	2.15	0.04	59.6	6.8	12	14.75	11.7
W599836		0.26	1.535	90.5	4.61	4010	60	1.08	49.2	1.45	191.0	32.9	62.4	33	10.45	1245
W599837		4.53		0.15	7.35	17.2	1470	1.65	0.21	2.54	0.20	63.3	10.0	15	14.80	16.0
W599838		4.74		0.08	7.49	12.6	2120	1.51	0.14	2.66	0.13	63.8	10.5	17	14.05	16.9
W599839		4.77		0.07	7.61	11.1	2680	1.51	0.12	3.04	0.13	64.6	10.4	16	14.70	17.6
W599840		5.00		0.07	7.67	11.3	1610	1.64	0.10	2.65	0.15	66.3	10.6	18	15.20	15.8
W599841		4.61		0.05	7.65	17.4	800	1.74	0.10	2.37	0.13	52.6	12.3	17	12.90	17.1
W599842		4.31		0.09	7.49	14.3	830	1.60	0.16	2.94	0.09	63.2	9.3	16	14.25	15.2
W599843		4.97		0.08	7.45	16.9	1050	1.60	0.13	2.34	0.13	69.2	11.5	15	15.00	18.1
W599844		2.25		0.08	7.24	15.0	1170	1.55	0.13	2.18	0.13	64.7	10.5	14	14.70	16.5
W599845		4.97		0.05	8.17	13.1	790	1.67	0.15	1.34	0.04	73.2	10.0	15	12.85	14.1
W599846		4.97		0.14	7.14	13.5	1150	1.77	0.19	1.55	0.17	57.4	8.2	15	13.05	14.7
W599847		4.70		0.10	7.10	11.3	1360	1.56	0.15	1.94	0.06	54.7	8.6	13	13.65	13.1
W599848		4.61		0.08	7.40	20.6	1350	1.63	0.15	1.19	0.10	59.4	11.0	14	11.85	17.5
W599849		4.60		0.20	7.53	276	1150	1.69	0.29	1.28	0.50	82.3	4.9	8	14.15	8.1
W599850		3.44		0.73	7.47	1115	950	1.34	0.22	1.23	0.22	83.7	6.2	8	9.22	13.7
W599851		5.47		1.40	6.99	180.0	470	3.16	0.28	1.64	0.44	23.8	2.6	3	25.5	5.9
W599852		4.86		0.01	0.14	1.6	30	0.08	0.05	34.4	0.02	1.45	0.5	1	0.11	2.5
W599853		5.09		0.49	7.60	127.0	880	1.98	0.22	3.54	0.26	41.6	9.4	7	23.6	43.7
W599854		4.98		0.28	7.86	449	860	1.62	0.20	2.66	0.14	50.1	9.9	7	20.5	23.0
W599855		4.78		0.10	7.58	45.6	1000	1.77	0.18	3.67	0.04	48.1	9.3	6	22.5	1.8
W599856		5.01		14.20	7.57	981	810	1.73	0.37	2.54	23.4	51.8	10.1	44	23.8	16.7
W599857		<0.02		14.35	7.56	1035	820	1.73	0.36	2.65	22.5	47.7	10.5	44	23.6	17.6
W599858		4.75		1.15	7.55	89.9	690	1.36	0.23	3.87	3.15	50.1	10.1	100	16.75	9.0
W599859		3.76		0.53	7.79	61.5	980	1.37	0.22	3.26	0.38	52.2	11.2	80	14.80	2.2
W599860		4.13		0.40	8.00	60.7	760	1.12	0.17	3.44	0.94	53.6	10.0	92	13.55	1.3
W599861		1.66		0.52	7.21	102.0	730	1.39	0.25	6.40	0.38	53.2	10.0	102	15.15	3.1
W599862		2.94		0.79	7.50	219	710	1.25	0.35	4.18	1.16	49.2	9.1	129	16.70	3.4
W599863		4.68		2.21	7.60	263	550	1.35	1.02	3.06	6.92	52.0	18.2	102	13.15	8.7
W599864		4.12		1.63	7.52	205	650	1.71	1.44	3.29	30.8	45.5	12.9	31	12.85	26.5

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599825		4.27	16.95	0.16	4.1	0.033	2.48	31.1	17.8	1.03	1100	2.22	1.30	11.2	9.0	540
W599826		2.34	16.20	0.16	3.9	0.034	3.12	31.6	13.3	0.74	711	1.31	0.85	11.3	5.3	340
W599827		2.67	17.10	0.18	4.2	0.033	3.17	38.0	10.2	0.75	734	1.47	1.07	13.0	5.4	330
W599828		2.33	17.05	0.17	4.2	0.024	3.49	36.8	7.9	0.69	1280	1.47	0.10	11.9	4.9	290
W599829		5.87	16.40	0.13	1.0	0.690	2.84	24.7	43.7	0.74	2010	9.26	0.06	6.4	18.7	510
W599830		2.15	16.15	0.14	4.6	0.034	3.68	39.8	4.0	0.55	758	2.69	0.06	12.3	4.6	270
W599831		1.47	15.95	0.13	5.1	0.052	3.55	46.7	5.2	0.37	495	3.74	0.06	14.2	1.7	140
W599832		1.20	14.10	0.13	4.3	0.030	3.38	42.1	5.5	0.32	519	3.37	0.06	12.5	1.1	120
W599833		1.28	15.55	0.15	4.6	0.030	3.61	45.1	5.2	0.47	839	2.57	0.06	14.1	1.4	120
W599834		2.57	16.70	0.14	4.9	0.042	3.80	36.2	17.0	0.57	1060	1.19	0.06	11.9	7.0	430
W599835		2.53	14.60	0.13	4.2	0.034	3.38	26.7	14.5	0.59	772	1.29	0.27	10.7	4.8	340
W599836		11.70	12.80	0.10	0.8	4.67	2.02	16.0	32.8	0.51	1810	18.85	0.15	4.7	15.7	370
W599837		2.81	16.00	0.11	4.4	0.044	3.12	29.9	19.4	0.85	727	1.06	0.39	10.6	6.8	440
W599838		3.07	15.95	0.14	4.7	0.041	3.08	31.7	14.4	1.21	663	0.41	0.79	10.1	7.1	460
W599839		3.14	16.35	0.15	4.6	0.042	3.24	31.3	13.2	1.23	676	0.97	0.90	10.3	7.0	480
W599840		3.32	17.05	0.14	4.7	0.037	3.23	32.0	17.5	1.06	706	1.84	0.49	10.1	7.7	510
W599841		3.13	17.70	0.12	4.9	0.039	3.02	22.7	32.1	0.78	1070	1.55	0.06	10.8	8.1	530
W599842		2.86	17.15	0.13	4.5	0.041	3.18	29.3	23.2	0.81	807	1.58	0.08	10.6	6.2	470
W599843		2.88	17.15	0.12	4.5	0.040	3.33	32.4	21.3	0.82	1110	0.84	0.07	11.4	7.9	440
W599844		2.70	16.40	0.12	4.4	0.034	3.34	30.6	20.5	0.79	1010	0.76	0.07	11.2	6.7	410
W599845		2.65	17.05	0.15	4.6	0.040	3.61	36.3	18.7	0.75	906	1.04	0.06	11.6	6.9	450
W599846		2.76	16.65	0.12	4.5	0.042	3.30	25.6	19.8	0.50	562	1.32	0.07	12.2	5.7	370
W599847		2.56	16.95	0.12	4.5	0.039	3.09	24.1	25.7	0.53	972	0.60	0.06	11.3	5.4	410
W599848		2.56	16.60	0.10	4.4	0.043	2.68	27.0	36.7	0.47	1230	1.47	0.05	12.1	7.3	420
W599849		1.81	15.80	0.12	4.5	0.039	3.31	39.9	13.2	0.60	1780	6.10	0.08	13.5	2.4	220
W599850		2.57	15.80	0.14	4.8	0.057	3.48	41.8	5.5	0.48	2500	2.96	0.08	13.2	2.3	220
W599851		1.26	20.9	0.11	3.6	0.027	3.27	10.0	9.7	0.32	1440	1.41	0.05	25.2	10.8	160
W599852		0.16	0.53	0.11	0.1	0.005	0.06	1.3	1.1	1.83	112	<0.05	0.04	0.3	0.8	80
W599853		3.25	17.95	0.17	3.6	0.062	3.18	17.7	24.8	0.52	1540	0.72	0.06	10.1	1.9	620
W599854		3.32	18.25	0.15	3.6	0.058	3.16	22.3	25.8	0.76	1290	0.38	0.05	10.5	2.1	630
W599855		3.43	18.05	0.13	3.4	0.052	3.57	20.9	21.2	0.67	1540	0.32	0.05	9.9	2.0	620
W599856		3.94	18.30	0.12	3.0	0.082	2.96	24.1	25.7	0.68	3230	1.71	0.05	9.5	8.8	690
W599857		4.00	18.85	0.12	3.1	0.086	3.07	20.8	26.8	0.69	3350	1.79	0.05	9.6	10.2	710
W599858		4.23	16.45	0.12	2.9	0.135	2.77	24.4	34.6	1.32	3210	1.07	0.05	7.3	17.2	670
W599859		3.80	18.95	0.11	3.0	0.112	3.44	23.8	35.1	0.99	2810	0.78	0.08	8.4	18.2	720
W599860		4.41	17.90	0.12	2.9	0.146	2.96	26.6	33.2	1.32	2740	0.52	0.06	7.9	18.7	700
W599861		4.94	15.50	0.11	2.6	0.147	2.44	26.4	52.8	1.79	3970	0.62	0.05	6.7	19.2	640
W599862		4.84	17.65	0.11	2.8	0.171	3.53	23.3	31.3	1.07	2360	0.63	0.07	7.4	20.8	710
W599863		5.00	16.60	0.12	3.9	0.143	3.33	25.2	19.2	1.19	2220	1.92	0.04	7.6	20.0	690
W599864		4.39	17.30	0.11	2.6	0.576	2.76	20.4	35.9	0.96	2400	1.01	0.04	7.4	10.4	670

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599825		26.8	126.5	0.002	1.46	8.76	13.7	<1	1.4	263	0.79	0.13	17.15	0.313	2.22	5.9
W599826		35.6	155.5	<0.002	0.85	9.96	9.8	<1	1.9	179.5	0.96	<0.05	19.85	0.239	2.60	6.0
W599827		34.2	158.0	<0.002	1.32	8.89	9.3	<1	2.1	209	1.03	<0.05	23.2	0.222	2.42	6.1
W599828		16.6	179.5	<0.002	1.61	15.95	8.6	<1	2.3	63.1	1.02	0.13	22.9	0.212	3.55	6.0
W599829		1780	162.0	<0.002	3.39	52.9	9.8	<1	6.8	83.3	0.53	0.23	10.80	0.206	2.76	4.7
W599830		28.4	185.0	<0.002	1.67	12.70	7.9	<1	2.1	37.3	1.15	0.71	25.0	0.197	2.07	6.8
W599831		64.5	191.5	<0.002	0.47	18.70	4.3	<1	2.6	22.9	1.34	0.27	31.4	0.127	2.18	11.1
W599832		42.4	159.5	<0.002	0.29	14.15	3.5	<1	2.1	23.1	1.19	0.07	28.0	0.112	2.00	8.0
W599833		25.9	190.0	<0.002	0.12	10.75	3.8	<1	2.3	43.1	1.32	<0.05	30.2	0.122	2.67	10.0
W599834		23.9	215	<0.002	0.51	16.20	11.3	<1	1.8	51.7	1.07	<0.05	22.7	0.277	3.44	8.4
W599835		23.3	159.0	<0.002	0.13	9.26	8.6	<1	1.8	166.0	0.98	<0.05	19.55	0.237	2.58	6.1
W599836		9150	120.5	<0.002	>10.0	219	7.6	2	12.0	93.2	0.37	1.96	7.46	0.139	1.85	4.8
W599837		31.0	157.5	<0.002	0.13	8.46	11.4	<1	1.9	165.5	0.93	<0.05	18.80	0.289	2.31	8.9
W599838		20.8	162.5	<0.002	0.06	3.76	11.8	<1	2.2	231	0.93	<0.05	19.60	0.295	1.97	6.1
W599839		22.9	156.0	<0.002	0.08	3.75	12.2	<1	1.8	308	0.92	<0.05	18.90	0.305	1.92	5.5
W599840		20.4	172.5	<0.002	0.04	5.30	13.5	<1	1.6	171.0	0.91	<0.05	18.85	0.313	1.91	5.6
W599841		27.6	132.5	<0.002	0.07	16.00	12.9	<1	2.0	82.7	0.95	<0.05	16.30	0.337	1.86	7.5
W599842		30.4	163.5	<0.002	0.05	10.80	12.4	<1	2.0	96.1	0.93	<0.05	18.90	0.300	1.92	6.8
W599843		25.6	173.5	<0.002	0.09	12.65	11.4	<1	2.3	88.8	0.97	<0.05	19.85	0.280	2.01	7.8
W599844		26.2	170.5	<0.002	0.09	11.70	10.9	<1	2.2	88.0	0.96	<0.05	19.35	0.267	2.00	7.2
W599845		20.8	199.5	<0.002	0.07	11.35	11.6	<1	2.2	55.1	1.03	<0.05	21.1	0.287	1.76	7.1
W599846		32.8	166.5	<0.002	0.06	8.94	10.2	<1	1.9	74.8	1.04	<0.05	19.15	0.248	1.95	6.3
W599847		26.9	146.0	<0.002	0.06	9.35	10.7	<1	1.8	81.9	1.00	<0.05	17.60	0.276	1.87	6.0
W599848		23.1	143.0	<0.002	0.14	12.10	11.2	<1	2.5	61.7	1.01	<0.05	18.85	0.275	1.74	7.7
W599849		35.6	186.0	<0.002	0.45	16.60	8.5	<1	1.7	50.6	1.14	<0.05	24.8	0.213	3.57	8.6
W599850		25.0	178.0	<0.002	1.59	21.9	7.2	<1	1.9	47.5	1.18	<0.05	27.6	0.186	3.18	8.2
W599851		58.8	200	<0.002	1.03	10.60	5.4	<1	3.9	95.6	2.47	<0.05	19.95	0.099	4.87	11.8
W599852		0.9	2.4	<0.002	0.02	0.14	0.2	1	0.2	89.2	<0.05	<0.05	0.15	0.005	0.03	0.2
W599853		50.3	167.5	<0.002	0.72	23.8	12.5	<1	1.7	152.0	0.73	<0.05	9.93	0.335	3.96	9.6
W599854		29.9	171.5	<0.002	0.68	27.0	13.4	<1	1.9	99.5	0.76	<0.05	11.80	0.331	4.73	4.1
W599855		13.6	209	<0.002	0.38	13.95	13.0	<1	1.6	130.0	0.73	<0.05	10.90	0.322	5.18	2.7
W599856		659	172.5	<0.002	2.28	66.2	15.0	<1	4.6	119.5	0.72	<0.05	11.45	0.329	4.30	3.8
W599857		762	161.0	<0.002	2.36	68.2	14.9	1	4.7	123.0	0.72	0.05	10.90	0.339	4.41	3.8
W599858		70.1	168.5	<0.002	0.82	22.7	18.1	<1	1.8	149.5	0.60	<0.05	13.80	0.341	3.60	4.1
W599859		23.1	166.5	<0.002	0.28	18.90	18.5	<1	1.5	153.0	0.71	<0.05	14.20	0.358	4.01	3.9
W599860		28.1	180.5	<0.002	0.40	18.05	18.3	<1	1.5	140.5	0.64	<0.05	14.90	0.366	4.44	5.2
W599861		28.6	161.0	<0.002	1.27	23.0	18.4	<1	1.3	202	0.53	<0.05	12.00	0.336	4.33	8.0
W599862		47.5	195.5	<0.002	2.13	27.8	20.0	1	1.5	171.5	0.58	<0.05	12.00	0.370	5.53	6.4
W599863		98.4	234	<0.002	3.63	20.6	18.4	1	2.4	114.0	0.62	0.12	13.55	0.337	5.38	6.6
W599864		74.1	156.5	<0.002	1.92	29.3	19.0	<1	3.1	114.5	0.55	<0.05	9.18	0.393	4.56	3.6

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215130

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599825		87	3.8	21.0	96	140.5	<0.005
W599826		58	2.2	19.3	74	124.5	<0.005
W599827		55	2.7	20.8	70	131.5	<0.005
W599828		47	2.5	20.8	38	127.0	<0.005
W599829		62	6.0	11.6	2840	29.3	0.656
W599830		42	3.1	21.2	59	134.0	<0.005
W599831		9	2.2	20.6	111	143.0	<0.005
W599832		5	1.8	18.8	67	119.5	<0.005
W599833		6	1.9	21.8	49	134.0	<0.005
W599834		68	3.1	23.6	56	152.5	<0.005
W599835		56	1.8	18.9	42	129.0	<0.005
W599836		47	4.8	10.4	>10000	24.1	2.87
W599837		77	2.1	21.7	70	145.5	<0.005
W599838		82	1.6	21.8	55	146.0	<0.005
W599839		88	1.6	21.7	55	150.0	<0.005
W599840		95	1.8	22.4	61	153.0	<0.005
W599841		103	3.9	20.4	69	162.5	<0.005
W599842		89	2.1	22.2	57	149.0	<0.005
W599843		79	3.4	22.5	82	145.5	<0.005
W599844		73	3.4	21.5	76	140.5	<0.005
W599845		83	3.2	22.8	78	150.5	<0.005
W599846		67	2.1	19.4	59	140.5	<0.005
W599847		78	3.5	19.2	54	140.0	<0.005
W599848		80	5.8	22.5	60	142.5	<0.005
W599849		60	2.3	21.2	109	134.0	<0.005
W599850		30	2.2	19.5	80	144.5	<0.005
W599851		21	1.3	17.1	70	80.4	0.012
W599852		1	3.9	3.1	5	2.8	<0.005
W599853		99	1.9	14.8	102	120.0	0.128
W599854		99	4.6	15.1	132	123.5	<0.005
W599855		98	2.5	15.6	164	117.5	<0.005
W599856		105	3.9	16.0	1880	106.0	0.075
W599857		111	4.0	15.3	1850	108.0	0.076
W599858		134	3.5	17.7	267	99.6	0.008
W599859		138	3.7	19.1	83	104.0	0.014
W599860		135	2.7	18.8	137	98.6	0.009
W599861		128	4.4	19.6	83	94.4	0.011
W599862		142	3.5	16.4	126	91.8	0.018
W599863		124	3.9	16.2	495	144.0	0.078
W599864		147	7.0	17.2	1830	91.8	0.025

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215130

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215134

Project: Klaza

P.O. No.: Batch 21

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215134

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599865		5.49		7.91	7.75	2290	830	1.64	2.94	2.78	25.6	37.9	8.1	13	11.65	19.2
W599866		5.43		4.58	8.11	1850	460	1.45	7.86	2.74	28.9	32.7	16.3	19	8.68	40.3
W599867		5.54		2.93	8.61	190.0	1050	1.44	4.36	3.20	11.35	34.2	6.9	19	9.37	65.1
W599868		3.65		1.28	8.17	55.9	1090	1.53	1.52	3.20	9.13	29.6	28.4	21	14.50	10.9
W599869		4.82		2.41	7.76	76.0	820	1.31	4.64	4.10	7.37	32.5	14.8	16	15.10	9.8
W599870		0.26		9.72	6.39	1860	220	1.51	5.95	1.69	32.9	44.8	11.5	27	16.75	188.5
W599871		4.96		0.25	7.88	51.3	720	1.20	0.53	4.15	0.58	29.0	14.8	19	12.55	2.9
W599872		2.09		0.22	8.06	44.1	530	1.37	0.34	4.44	0.67	33.4	12.7	21	24.7	2.4
W599873		3.54		1.94	8.22	153.0	740	1.66	3.09	2.96	1.32	34.8	14.7	19	14.95	5.7
W599874		3.93		2.56	7.75	142.0	240	1.47	3.29	2.55	0.50	29.2	24.3	16	6.70	11.7
W599875		3.01		1.83	7.57	139.5	1270	1.53	2.76	2.61	1.34	40.6	12.4	15	11.05	6.1
W599876		4.19		8.65	8.32	1110	680	1.66	3.90	1.61	19.45	41.7	14.6	8	10.20	21.4
W599877		4.85		0.55	8.57	67.1	1100	1.58	0.92	1.86	0.39	44.2	11.0	35	20.1	4.6
W599878		0.26	1.525	97.8	4.91	4230	460	1.09	51.9	1.62	204	32.0	60.2	37	10.00	1330
W599879		4.21		0.17	8.68	26.1	990	1.65	0.30	3.03	0.24	48.8	9.9	22	14.45	4.6
W599880		5.58		0.54	8.24	25.2	850	1.51	0.95	2.62	0.20	43.4	15.2	32	16.80	5.6
W599881		4.21		0.45	9.07	47.9	510	1.71	0.48	1.89	0.94	48.6	14.2	44	17.65	5.3
W599882		4.28		1.56	8.94	44.4	470	1.59	0.23	1.15	2.27	50.5	9.8	39	13.85	6.9
W599883		5.02		0.20	8.38	18.8	780	1.42	0.22	3.20	0.19	37.2	12.6	48	12.50	3.8
W599884		5.05		0.21	8.61	21.4	720	1.69	0.28	1.51	0.18	31.7	17.7	51	13.75	13.3
W599885		5.38		0.12	7.79	11.9	1060	1.45	0.14	4.01	0.12	36.6	16.5	46	11.55	15.6
W599886		5.42		0.13	7.66	10.1	1140	1.26	0.19	3.91	0.14	34.5	15.2	42	10.40	20.2
W599887		<0.02		0.13	8.19	10.1	1200	1.28	0.20	3.93	0.12	42.3	14.6	44	10.75	19.2
W599888		5.47		0.14	7.98	12.2	1390	1.37	0.25	3.84	0.10	35.8	17.5	46	10.80	13.0
W599889		3.81		0.07	7.70	12.5	980	1.32	0.16	3.65	0.10	35.3	14.1	25	14.05	5.9
W599890		4.04		0.10	8.04	12.8	1020	1.39	0.20	3.98	0.15	43.4	11.7	18	13.25	4.7
W599891		5.20		1.55	7.19	271	510	1.51	0.76	0.36	0.53	84.9	2.4	7	9.85	3.2
W599892		2.02		4.06	6.14	110.0	470	1.53	1.05	0.38	2.69	70.0	3.0	7	9.96	4.6
W599893		3.59		1.26	5.91	168.0	680	1.46	0.57	1.11	0.35	59.6	2.4	7	7.44	5.4
W599894		3.81		0.37	6.25	80.0	1640	1.40	0.21	0.87	0.21	68.6	2.2	5	7.02	1.9
W599895		4.59		2.21	6.71	90.0	800	1.49	0.31	0.71	2.00	75.2	3.1	5	7.83	4.3
W599896		5.49		5.69	6.78	346	520	1.54	0.54	0.19	6.35	75.1	2.7	6	9.13	4.0
W599897		4.99		0.02	0.16	1.1	30	0.09	0.02	32.9	0.03	1.31	0.5	2	0.07	1.3
W599898		3.54		6.46	7.08	117.0	530	1.51	0.59	0.18	6.90	77.4	2.1	5	10.35	4.8
W599899		3.24		16.40	6.63	173.0	660	1.51	2.28	0.30	22.9	73.7	2.4	6	9.96	12.4
W599900		2.85		6.07	6.26	766	540	1.43	1.03	0.20	16.35	66.5	3.8	6	15.75	4.4
W599901		3.55		8.99	6.57	380	510	1.52	0.61	0.13	22.5	72.9	2.3	5	13.85	8.8
W599902		4.44		10.25	6.69	148.0	780	1.75	0.23	0.38	5.08	80.4	2.8	4	15.55	5.7
W599903		4.72		8.29	7.00	170.0	750	1.51	0.13	0.71	3.80	80.5	2.1	5	9.26	4.3
W599904		2.02		8.57	6.86	171.0	720	1.51	0.14	0.62	6.02	80.4	2.4	4	9.00	6.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599865		4.42	17.40	0.10	1.8	0.306	3.25	18.3	25.7	1.02	2470	0.57	0.04	6.0	4.4	630
W599866		5.41	18.10	0.09	1.5	0.601	3.57	17.0	14.4	0.87	1900	1.38	0.04	5.6	10.9	610
W599867		5.74	20.8	0.09	1.6	0.329	2.71	18.1	33.9	1.66	1940	0.58	0.29	6.0	8.3	660
W599868		5.21	19.35	0.09	1.8	0.229	2.84	14.4	31.0	1.66	1870	2.38	0.19	6.0	8.2	630
W599869		5.43	19.70	0.08	1.8	0.330	2.62	15.8	29.3	1.71	2120	0.49	0.68	6.0	6.2	650
W599870		5.70	16.15	0.10	1.0	0.649	2.76	24.6	41.1	0.71	1880	9.64	0.06	6.2	16.7	500
W599871		5.29	19.05	0.08	1.9	0.136	1.56	14.0	21.8	1.88	1820	0.41	1.62	6.1	6.7	630
W599872		4.54	19.70	0.11	1.9	0.116	1.48	16.9	41.2	1.66	1660	0.55	0.85	5.9	6.1	620
W599873		4.18	19.50	0.10	1.9	0.161	2.96	17.6	38.4	1.17	1780	1.31	0.04	5.9	6.6	620
W599874		6.15	16.30	0.10	1.6	0.093	3.57	14.3	16.2	0.71	1590	1.71	0.03	5.7	6.8	640
W599875		4.35	17.50	0.11	1.7	0.203	3.38	21.7	28.1	0.92	1660	0.59	0.10	7.2	3.9	610
W599876		4.68	18.45	0.10	1.9	0.183	3.47	21.7	28.5	0.93	1980	1.13	0.03	6.7	2.6	640
W599877		4.15	19.80	0.10	2.7	0.148	2.89	21.1	42.9	0.71	1340	0.36	0.12	8.8	6.2	640
W599878		12.25	13.10	0.09	0.8	4.49	2.03	16.4	32.7	0.56	1950	18.95	0.16	4.6	15.3	400
W599879		5.54	19.60	0.09	2.7	0.125	1.68	24.9	30.0	1.58	1250	0.51	1.36	8.6	4.7	620
W599880		5.62	18.00	0.09	2.4	0.141	2.02	21.6	34.8	1.70	1400	0.45	0.81	7.7	8.8	640
W599881		5.11	20.8	0.10	2.6	0.125	2.07	25.7	44.1	1.08	1690	0.32	0.21	8.8	10.4	780
W599882		4.45	20.3	0.11	2.7	0.120	2.04	26.4	46.4	0.86	1600	0.42	0.36	8.6	11.1	750
W599883		5.19	19.35	0.09	2.6	0.078	1.41	18.0	27.3	1.90	1480	0.40	1.64	8.0	12.6	740
W599884		4.27	20.4	0.07	2.9	0.058	1.44	15.1	63.0	0.66	889	0.77	0.07	8.3	12.6	750
W599885		4.83	18.95	0.09	2.7	0.056	1.20	17.7	27.8	1.98	1100	0.61	1.29	7.9	14.1	710
W599886		4.56	18.80	0.09	2.7	0.054	1.31	16.7	22.6	1.87	1080	0.46	1.47	8.0	13.1	730
W599887		4.70	18.35	0.09	2.7	0.054	1.38	20.9	21.8	1.89	1100	0.52	1.50	7.9	12.7	730
W599888		4.80	20.0	0.10	2.9	0.066	1.26	17.1	29.4	2.04	1170	1.11	1.49	8.3	13.4	720
W599889		4.54	19.00	0.09	2.8	0.060	1.74	17.1	23.9	1.90	1140	0.42	1.50	8.5	7.9	680
W599890		4.41	21.7	0.11	2.9	0.081	1.66	20.2	23.9	1.89	1300	0.32	1.85	9.9	6.6	690
W599891		1.23	16.30	0.14	4.2	0.048	3.67	46.6	5.0	0.40	869	1.04	0.05	13.5	1.7	120
W599892		1.18	14.25	0.11	3.6	0.051	3.00	37.7	6.3	0.31	1020	2.31	0.03	11.5	1.7	90
W599893		1.10	13.50	0.10	3.6	0.033	3.23	30.9	5.0	0.30	1660	1.67	0.03	11.4	1.7	90
W599894		0.88	14.20	0.14	3.8	0.025	4.30	35.7	8.4	0.23	1140	2.38	0.08	13.0	1.4	90
W599895		1.53	15.45	0.11	3.8	0.034	3.65	38.5	7.3	0.36	1500	3.83	0.04	13.1	1.6	120
W599896		1.23	15.70	0.12	3.9	0.147	3.44	39.2	6.7	0.37	821	1.20	0.03	12.5	1.5	110
W599897		0.14	0.56	0.15	0.1	<0.005	0.06	1.3	1.3	1.61	99	0.06	0.05	0.4	0.7	80
W599898		1.19	16.45	0.23	4.1	0.164	3.49	41.4	4.8	0.35	575	0.95	0.03	13.4	1.7	100
W599899		1.83	15.85	0.19	3.8	0.354	3.35	38.9	5.4	0.41	702	1.25	0.03	12.0	2.0	100
W599900		2.10	15.20	0.15	3.5	0.369	2.95	35.8	8.8	0.32	592	5.02	0.03	11.4	2.3	150
W599901		1.48	16.25	0.15	3.7	0.582	2.99	39.3	7.0	0.31	413	1.25	0.03	12.4	1.6	90
W599902		1.17	13.80	0.16	3.6	0.069	3.33	43.0	4.6	0.36	1070	0.89	0.04	12.8	1.6	110
W599903		1.28	13.90	0.15	3.7	0.040	3.50	43.2	4.6	0.33	1360	0.58	0.04	13.1	1.4	100
W599904		1.08	13.95	0.17	3.7	0.049	3.46	43.8	4.8	0.33	1380	0.57	0.04	12.8	1.1	90

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Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599865		1150	185.0	<0.002	2.02	30.0	18.8	<1	4.2	109.0	0.45	<0.05	6.46	0.384	3.95	2.7
W599866		216	236	<0.002	3.44	29.4	21.4	<1	2.3	75.7	0.42	<0.05	5.84	0.416	5.55	1.6
W599867		53.4	185.0	<0.002	0.91	21.0	24.2	1	2.2	153.0	0.45	<0.05	5.83	0.447	4.23	1.9
W599868		30.7	160.0	<0.002	1.04	13.10	23.0	<1	1.9	167.0	0.43	0.28	5.16	0.438	4.46	1.9
W599869		54.5	134.5	<0.002	0.74	14.75	19.8	<1	2.3	302	0.43	<0.05	5.14	0.409	4.61	2.1
W599870		1670	168.0	<0.002	3.23	48.8	9.8	<1	6.5	79.2	0.54	0.20	12.05	0.201	2.74	4.7
W599871		20.2	63.7	<0.002	0.27	12.55	20.4	<1	2.1	452	0.46	<0.05	4.98	0.443	2.52	1.7
W599872		24.6	75.6	<0.002	0.26	17.45	21.4	<1	2.0	346	0.47	<0.05	5.25	0.432	2.62	1.8
W599873		74.0	174.5	<0.002	1.42	13.95	21.4	<1	2.5	106.5	0.46	0.06	5.93	0.428	4.52	2.0
W599874		37.1	210	<0.002	4.67	11.45	17.7	1	1.8	65.9	0.43	0.51	5.55	0.412	4.26	1.7
W599875		82.2	199.5	<0.002	1.14	15.50	14.0	<1	3.6	129.5	0.53	<0.05	8.01	0.342	4.36	2.3
W599876		1280	218	<0.002	2.46	22.8	16.0	<1	5.5	62.4	0.53	0.05	7.55	0.387	5.07	2.3
W599877		38.3	158.0	<0.002	0.49	24.8	18.5	<1	3.5	153.5	0.65	<0.05	9.16	0.399	5.33	2.4
W599878		9410	117.5	0.002	>10.0	245	7.5	2	11.7	96.0	0.38	2.02	7.57	0.151	1.91	4.9
W599879		24.2	87.3	<0.002	0.08	15.30	24.3	<1	2.6	399	0.64	<0.05	8.81	0.444	2.63	2.4
W599880		23.6	112.0	<0.002	0.26	13.45	21.8	<1	3.0	296	0.61	<0.05	7.77	0.432	2.91	2.2
W599881		32.8	133.0	<0.002	0.46	19.25	20.9	<1	3.3	143.5	0.66	<0.05	8.81	0.468	3.04	2.6
W599882		291	135.0	<0.002	0.35	18.45	18.6	1	3.6	143.0	0.63	<0.05	8.93	0.434	2.32	2.6
W599883		26.9	50.2	<0.002	0.07	13.20	19.6	<1	1.6	419	0.64	<0.05	6.67	0.461	1.16	2.5
W599884		20.4	45.5	<0.002	0.60	18.55	19.7	<1	1.9	114.0	0.64	<0.05	6.83	0.468	1.19	2.4
W599885		12.5	27.5	<0.002	0.31	9.42	18.1	<1	1.8	472	0.60	<0.05	5.92	0.431	0.66	2.0
W599886		13.8	31.7	<0.002	0.22	6.88	18.0	<1	1.6	485	0.62	<0.05	5.92	0.429	0.76	2.1
W599887		13.7	44.8	<0.002	0.21	6.51	19.0	1	1.7	495	0.59	<0.05	7.59	0.432	0.75	2.3
W599888		14.7	28.7	<0.002	0.17	7.86	19.5	<1	1.9	525	0.63	<0.05	5.75	0.452	0.79	1.9
W599889		16.5	40.5	<0.002	0.01	9.05	16.5	<1	1.6	463	0.69	<0.05	6.52	0.420	0.96	1.9
W599890		21.9	46.9	<0.002	0.01	10.70	17.8	<1	1.9	476	0.74	<0.05	8.06	0.404	1.23	2.4
W599891		46.5	241	<0.002	0.31	16.55	5.5	<1	3.2	17.2	1.30	<0.05	30.3	0.119	4.24	7.5
W599892		167.5	191.0	<0.002	0.57	46.1	4.7	<1	3.6	17.5	1.09	<0.05	26.1	0.100	3.36	6.6
W599893		47.3	182.0	<0.002	0.30	25.8	4.2	<1	2.2	33.0	1.11	<0.05	23.4	0.097	3.80	5.9
W599894		40.3	219	<0.002	0.19	14.75	4.0	<1	1.8	80.2	1.23	<0.05	26.5	0.089	4.27	6.0
W599895		193.5	220	<0.002	0.79	22.8	4.7	<1	3.1	32.9	1.19	<0.05	27.5	0.097	3.96	5.9
W599896		323	224	<0.002	0.55	22.5	4.5	1	5.6	11.3	1.22	0.14	28.6	0.105	3.69	4.9
W599897		1.3	2.3	<0.002	<0.01	0.15	0.4	1	<0.2	80.1	0.05	<0.05	0.21	0.011	0.03	0.2
W599898		487	229	<0.002	0.56	22.5	5.0	<1	7.6	11.4	1.28	<0.05	29.8	0.107	3.88	5.9
W599899		966	222	<0.002	1.24	32.9	4.7	1	9.4	10.5	1.21	<0.05	27.6	0.102	4.54	5.6
W599900		464	188.5	<0.002	1.78	30.6	5.1	1	10.9	13.3	1.09	<0.05	24.1	0.115	4.16	7.2
W599901		1010	197.5	<0.002	0.95	25.3	4.3	1	11.6	10.9	1.18	<0.05	28.0	0.094	4.58	6.7
W599902		1055	195.5	<0.002	0.66	20.6	4.2	<1	4.9	17.2	1.13	<0.05	28.4	0.100	4.36	6.4
W599903		996	199.0	<0.002	0.52	20.1	4.4	<1	3.6	22.5	1.18	<0.05	30.7	0.100	4.09	6.3
W599904		1170	205	<0.002	0.47	22.0	4.5	1	4.3	21.7	1.14	<0.05	29.4	0.096	4.06	6.3

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Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215134

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599865		161	6.5	12.4	1520	64.0	0.365
W599866		174	6.1	12.1	1960	58.8	0.088
W599867		190	4.7	16.8	811	57.3	0.014
W599868		190	3.5	16.5	670	68.0	0.024
W599869		181	3.3	16.5	566	68.2	0.011
W599870		62	5.8	11.9	2650	29.9	0.640
W599871		184	2.1	15.9	131	67.7	<0.005
W599872		175	3.9	18.4	103	72.6	<0.005
W599873		174	4.4	16.4	137	69.4	0.025
W599874		165	4.5	12.3	65	59.9	0.050
W599875		112	4.2	15.0	111	63.5	0.027
W599876		142	7.8	14.4	1320	70.8	0.133
W599877		135	7.3	16.2	95	96.5	0.009
W599878		52	4.7	10.8	>10000	25.2	3.04
W599879		168	2.9	20.2	117	94.7	<0.005
W599880		165	2.8	18.7	119	85.4	0.005
W599881		163	6.0	19.2	148	94.1	<0.005
W599882		150	6.4	16.4	221	100.5	0.009
W599883		163	2.4	17.4	113	88.6	<0.005
W599884		163	8.9	14.8	97	101.5	<0.005
W599885		153	1.4	18.3	78	103.0	<0.005
W599886		149	1.5	17.0	82	98.2	<0.005
W599887		147	1.4	18.9	79	100.5	<0.005
W599888		162	2.2	16.9	93	98.6	<0.005
W599889		141	2.9	16.2	86	96.6	<0.005
W599890		143	1.7	18.8	99	100.5	<0.005
W599891		15	2.2	18.4	66	118.0	0.010
W599892		13	2.8	16.7	275	101.0	0.031
W599893		11	2.4	16.8	55	96.0	0.010
W599894		8	1.9	19.6	45	104.0	<0.005
W599895		11	2.2	18.5	169	107.5	0.016
W599896		12	2.2	14.4	517	107.5	0.027
W599897		3	<0.1	2.5	5	3.0	<0.005
W599898		14	2.5	15.6	567	113.0	0.012
W599899		15	2.6	14.8	1860	108.5	0.048
W599900		19	2.9	15.5	1270	101.5	0.077
W599901		9	2.3	14.7	1610	104.0	0.030
W599902		12	2.8	16.9	339	95.0	0.016
W599903		9	2.9	17.0	263	98.3	0.011
W599904		9	2.7	16.7	403	97.4	0.010

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CERTIFICATE OF ANALYSIS WH20215134

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215135

Project: Klaza

P.O. No.: Batch 23

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20215135

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594801		6.13		0.48	8.24	58.0	1710	1.67	0.64	0.17	7.19	56.6	9.8	10	18.20	71.6
W594802		4.76		0.69	7.19	95.1	2230	1.75	0.26	0.18	9.45	47.3	11.3	6	21.5	49.9
W594803		6.52		0.65	8.29	57.5	1060	1.88	0.41	0.25	7.65	52.5	8.9	5	22.3	66.0
W594804		4.73		0.22	7.49	34.7	2400	1.40	0.34	0.25	4.31	82.5	6.4	4	12.25	52.4
W594805		7.53		0.83	7.52	118.0	2330	1.44	0.70	1.54	3.35	38.0	11.0	6	13.80	423
W594806		6.31		7.39	7.72	128.5	1560	1.67	0.77	0.96	6.07	53.0	19.5	9	20.2	210
W594807		5.27		0.03	0.19	1.0	40	0.12	0.02	33.1	0.05	1.22	0.7	1	0.09	3.2
W594808		1.06		0.60	8.46	73.3	3150	1.43	0.42	0.16	3.72	36.8	12.9	6	13.05	311
W594809		2.98		2.09	7.45	275	1690	1.20	0.75	0.10	1.76	50.4	0.8	7	18.80	204
W594810		2.63		1.29	8.10	179.5	4370	1.40	0.42	0.13	2.73	54.0	1.1	7	17.15	168.5
W594811		4.39		0.67	7.93	142.0	3290	1.91	0.39	0.15	43.3	54.6	16.0	6	17.30	571
W594812		2.17		14.45	7.17	423	1520	1.17	9.87	0.10	1.41	50.2	1.0	6	17.35	188.5
W594813		1.71		6.42	8.05	273	2790	1.39	0.70	0.19	22.4	56.0	2.6	7	17.60	177.5
W594814		0.26		9.76	6.82	2030	220	1.49	6.03	1.70	36.4	47.2	11.7	27	16.35	197.0
W594815		5.10		1.30	7.39	103.5	910	1.73	0.51	1.72	5.25	43.8	9.0	8	15.40	142.0
W594816		4.49		1.08	7.44	116.0	630	1.48	0.56	1.86	3.23	52.8	7.3	7	18.60	190.5
W594817		4.97		3.43	6.80	166.0	2230	1.47	0.59	2.20	3.50	42.1	9.2	7	17.15	704
W594818		3.79		0.94	7.42	148.5	2750	1.41	0.64	1.59	10.55	48.8	7.4	10	10.70	477
W594819		3.94		0.74	7.45	141.0	2360	1.51	0.99	1.53	16.90	44.8	9.9	7	10.40	136.0
W594820		5.63		0.66	6.90	81.6	2130	1.46	0.79	2.13	1.90	48.8	8.5	7	18.45	144.5
W594821		<0.02		0.55	7.14	74.6	2150	1.42	0.72	2.18	1.71	49.4	7.9	10	18.80	112.5
W594822		3.85		0.23	7.60	21.0	2920	1.48	0.46	2.07	0.88	47.2	7.1	10	10.45	62.4
W594823		3.33		0.30	7.49	30.4	2940	1.37	0.54	1.90	1.19	48.0	9.1	10	14.25	100.0
W594824		5.48		0.30	7.37	54.0	530	1.45	0.39	2.65	1.05	46.3	8.1	10	13.30	101.5
W594825		5.10		0.27	7.08	56.7	260	1.33	0.29	3.59	1.35	48.7	6.1	8	21.3	50.8
W594826		5.38		0.48	7.11	52.6	1960	1.52	0.32	2.21	0.73	46.3	6.6	10	11.35	295
W594827		3.93		0.35	7.22	30.7	2550	1.57	0.35	2.68	0.58	42.6	5.9	11	15.85	131.0
W594828		1.26		0.35	7.13	33.9	2340	1.53	0.35	2.58	0.42	44.8	5.9	8	15.05	124.0
W594829		3.20		0.13	7.87	12.9	2280	1.45	0.28	1.96	0.40	50.8	6.9	10	16.40	62.6
W594830		5.53		1.12	7.30	76.3	1900	1.18	0.50	2.31	1.34	44.1	9.5	10	13.75	497
W594831		4.39		0.70	7.23	58.8	1500	1.27	0.74	2.70	1.53	46.7	10.9	12	17.90	211
W594832		4.92		0.32	7.75	19.1	2280	1.29	0.82	1.89	0.18	44.0	8.0	9	12.50	99.6
W594833		4.91		0.16	7.02	12.1	2100	1.45	0.72	3.25	0.10	41.7	6.5	11	16.60	23.3
W594834		5.03		0.63	6.87	62.5	2040	1.63	0.96	2.81	0.75	40.4	9.7	10	14.85	53.5
W594835		0.26	1.475	94.0	4.72	3990	900	1.03	51.1	1.54	201	32.4	66.9	36	9.75	1280
W594836		4.67		0.85	7.27	44.0	3150	1.65	1.03	2.94	1.69	47.6	9.3	11	17.55	144.5
W594837		5.02		0.68	7.11	22.3	2600	1.64	1.01	2.94	0.25	44.6	9.4	10	19.95	132.0
W594838		4.62		0.42	7.13	32.4	2670	1.61	0.57	2.61	0.15	46.6	9.1	11	19.70	169.5
W594839		4.46		0.19	7.01	23.2	2280	1.67	0.36	2.67	0.10	35.6	6.6	10	15.25	60.6
W594840		3.23		0.22	7.39	19.2	2530	1.32	0.39	2.11	0.54	45.9	8.1	11	16.00	51.7

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Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215135

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594801		2.53	16.40	0.14	0.7	0.079	3.10	31.9	180.0	0.12	715	5.56	0.12	7.8	3.3	590
W594802		2.25	14.20	0.12	0.7	0.060	2.87	29.8	79.0	0.19	1920	8.47	0.05	6.7	2.8	470
W594803		2.30	16.95	0.12	1.0	0.055	3.27	30.2	122.5	0.18	932	3.91	0.05	9.7	2.5	530
W594804		1.69	14.95	0.13	1.2	0.035	3.03	48.2	82.3	0.12	611	4.01	0.10	6.6	1.8	340
W594805		2.59	16.40	0.12	0.7	0.057	2.70	20.1	105.5	0.39	408	23.9	0.08	5.6	2.7	550
W594806		2.75	15.70	0.12	0.8	0.341	3.05	30.2	101.0	0.45	619	6.31	0.16	5.4	2.7	540
W594807		0.11	0.62	0.14	0.1	0.006	0.06	1.3	1.5	1.44	97	0.08	0.08	0.3	0.6	80
W594808		2.54	16.80	0.16	0.7	0.140	3.37	22.1	25.9	0.14	96	6.11	0.19	8.2	1.8	470
W594809		3.55	15.30	0.13	0.7	1.085	3.40	28.5	45.1	0.24	91	10.40	0.08	6.1	0.8	440
W594810		2.92	16.75	0.14	0.6	0.924	3.76	29.3	27.2	0.32	112	10.50	0.02	5.8	0.9	610
W594811		3.00	15.95	0.15	0.7	0.320	3.48	30.6	31.7	0.27	2140	21.2	0.02	6.2	3.4	660
W594812		3.64	15.00	0.14	0.7	1.000	3.26	29.3	19.8	0.25	107	9.23	0.03	6.1	0.7	460
W594813		3.02	16.85	0.14	0.7	1.020	3.66	31.9	36.5	0.32	511	4.17	0.03	7.3	0.9	590
W594814		6.04	14.30	0.13	1.0	0.679	2.97	25.7	40.9	0.74	2000	8.95	0.07	6.3	17.2	520
W594815		2.68	16.45	0.12	0.7	0.041	2.86	23.0	159.0	0.55	1930	2.56	0.07	7.2	2.6	600
W594816		2.64	15.05	0.13	0.7	0.054	3.08	29.3	48.6	0.65	2040	2.35	0.05	6.8	2.4	540
W594817		2.63	14.40	0.14	0.8	0.067	3.32	22.5	18.6	0.65	2290	3.40	0.65	6.4	2.5	510
W594818		2.53	14.65	0.13	0.8	0.080	3.47	27.5	23.5	0.49	707	8.23	0.74	6.9	2.2	530
W594819		2.97	15.15	0.13	0.7	0.097	3.35	24.8	21.3	0.56	1050	2.01	1.03	7.1	2.3	550
W594820		2.63	14.30	0.13	0.7	0.066	2.76	26.7	86.7	0.77	1000	23.0	0.11	6.4	2.3	530
W594821		2.89	15.25	0.13	0.8	0.076	2.79	28.2	95.2	0.78	1010	18.45	0.12	6.7	2.8	560
W594822		3.11	15.85	0.13	0.7	0.063	3.17	25.6	14.8	0.60	616	8.65	1.41	7.3	2.7	570
W594823		3.05	16.00	0.12	0.8	0.067	2.91	25.0	160.5	0.67	813	12.60	0.57	7.8	3.4	560
W594824		2.94	15.30	0.12	0.8	0.063	1.86	24.4	164.5	0.89	1020	3.19	0.03	7.4	3.0	610
W594825		2.96	14.65	0.12	0.7	0.059	2.57	27.7	78.5	1.29	1140	2.96	0.03	7.1	3.0	560
W594826		3.02	15.15	0.13	0.7	0.074	2.74	23.8	61.9	0.71	737	16.75	1.15	7.5	2.6	570
W594827		3.32	14.85	0.12	0.8	0.071	3.07	21.7	14.1	0.63	1110	2.58	1.41	7.3	2.9	570
W594828		3.15	15.10	0.12	0.8	0.088	2.94	23.0	13.5	0.63	1040	2.18	1.37	7.3	2.5	570
W594829		3.31	16.25	0.12	0.9	0.049	3.05	25.8	18.5	0.62	878	2.73	1.29	8.4	3.0	620
W594830		2.88	15.40	0.12	0.7	0.098	3.12	23.6	25.2	0.75	1500	49.5	0.38	7.7	2.9	630
W594831		3.45	15.05	0.12	0.7	0.100	3.09	25.3	53.4	0.86	1760	8.31	0.10	6.6	3.3	580
W594832		2.97	16.45	0.12	0.7	0.075	3.18	22.9	23.4	0.74	945	6.72	0.42	7.8	3.0	630
W594833		3.11	15.20	0.14	0.8	0.061	3.01	21.2	13.8	0.65	1400	6.62	1.41	7.4	2.8	590
W594834		3.15	17.35	0.11	0.8	0.098	3.12	19.9	16.3	0.82	1460	1.69	0.90	8.2	3.3	570
W594835		11.55	12.70	0.10	0.8	4.49	1.98	16.9	29.1	0.53	1920	16.25	0.15	4.7	16.0	370
W594836		3.29	17.15	0.11	0.8	0.140	3.51	24.6	23.8	0.85	1390	4.06	0.59	8.0	3.4	560
W594837		3.21	17.10	0.11	0.8	0.094	3.00	21.9	16.1	0.76	971	4.21	1.43	8.1	2.9	580
W594838		3.20	16.75	0.10	0.8	0.086	3.18	23.6	22.7	0.68	894	5.38	1.43	8.1	3.3	550
W594839		3.06	16.40	0.09	0.8	0.051	3.16	17.7	83.3	0.75	819	2.17	0.98	7.3	2.4	550
W594840		3.20	17.00	0.11	0.8	0.043	3.34	23.2	63.2	0.73	773	1.74	0.44	7.7	2.9	570

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594801		19.6	130.0	<0.002	0.01	39.4	9.8	1	3.5	140.0	0.65	0.33	17.10	0.240	1.78	3.0
W594802		79.3	139.0	<0.002	0.04	40.3	8.5	1	2.9	71.9	0.53	0.05	15.00	0.194	2.62	3.6
W594803		19.3	150.0	<0.002	0.02	31.1	10.0	1	3.5	90.6	0.82	0.08	19.20	0.220	2.30	3.6
W594804		10.1	127.0	<0.002	0.06	29.4	6.5	<1	2.0	115.0	0.80	0.08	31.7	0.132	1.69	2.6
W594805		12.6	104.5	0.016	0.93	107.5	9.5	1	2.5	164.0	0.45	0.12	11.75	0.197	1.80	2.2
W594806		1470	152.0	<0.002	1.21	46.8	9.3	1	2.4	118.0	0.43	0.21	14.30	0.173	2.22	3.0
W594807		4.5	1.5	<0.002	0.01	0.43	0.4	1	<0.2	81.5	<0.05	<0.05	0.18	0.010	0.02	0.2
W594808		51.1	138.5	<0.002	0.04	29.3	11.1	<1	3.7	135.0	0.67	0.13	15.15	0.243	2.13	3.9
W594809		315	176.5	<0.002	0.53	35.4	8.2	1	2.9	164.5	0.53	0.12	18.20	0.193	2.90	2.6
W594810		95.7	232	<0.002	0.59	36.5	9.8	1	3.0	296	0.48	0.11	17.80	0.205	3.93	3.2
W594811		61.4	216	0.005	0.42	31.4	10.1	1	2.6	168.0	0.52	0.09	15.60	0.203	3.64	6.5
W594812		1350	194.0	<0.002	0.97	53.3	8.3	1	4.6	153.0	0.50	0.25	13.05	0.196	3.39	2.9
W594813		1285	217	<0.002	0.61	47.7	10.5	<1	4.3	247	0.58	0.08	15.45	0.232	3.25	3.6
W594814		1820	160.5	0.002	3.47	47.0	9.2	1	6.3	80.1	0.50	0.22	11.30	0.214	2.64	4.3
W594815		107.5	114.0	<0.002	1.08	35.3	9.9	1	2.5	223	0.61	0.08	12.30	0.231	2.56	3.0
W594816		67.7	158.5	0.002	1.09	31.3	9.0	<1	2.8	159.0	0.59	0.06	13.15	0.214	2.95	3.9
W594817		90.1	141.0	0.002	0.99	32.7	9.0	<1	2.6	239	0.55	0.10	11.30	0.203	2.77	3.0
W594818		31.1	141.5	0.003	0.59	31.9	8.4	<1	2.6	224	0.60	0.07	14.80	0.205	2.17	3.0
W594819		89.0	144.0	<0.002	1.11	18.50	9.3	1	2.6	246	0.59	0.16	12.50	0.220	2.25	3.2
W594820		34.5	132.5	0.007	0.91	70.4	9.2	1	2.5	170.5	0.51	0.09	12.65	0.208	2.27	4.1
W594821		33.2	134.0	0.007	0.75	59.7	9.4	<1	2.7	179.5	0.55	0.10	13.50	0.216	2.24	4.2
W594822		18.8	130.0	0.005	0.39	7.35	9.6	1	2.7	279	0.60	0.07	13.60	0.225	1.79	4.1
W594823		39.3	115.5	0.006	0.56	25.3	10.0	<1	2.9	238	0.66	0.09	13.00	0.239	1.88	3.4
W594824		21.0	79.5	0.003	0.63	50.3	9.5	<1	2.7	188.5	0.62	0.07	12.40	0.234	1.91	3.4
W594825		18.6	132.0	0.002	0.43	32.5	9.0	<1	2.5	118.5	0.57	<0.05	12.50	0.219	2.63	4.3
W594826		16.0	108.0	0.009	0.26	80.6	9.4	<1	2.8	255	0.59	<0.05	12.05	0.230	1.59	3.3
W594827		20.7	119.0	0.002	0.38	9.53	8.9	<1	2.5	266	0.62	<0.05	11.80	0.236	2.00	3.5
W594828		20.3	119.5	0.002	0.45	9.20	9.1	<1	2.7	251	0.62	<0.05	11.80	0.231	1.92	3.3
W594829		16.5	120.5	0.002	0.15	8.24	10.1	<1	3.0	245	0.71	<0.05	13.95	0.254	1.79	3.4
W594830		18.0	113.5	0.033	0.61	72.5	9.7	1	3.0	174.5	0.62	0.10	12.20	0.245	1.92	3.5
W594831		30.0	137.5	0.011	0.80	70.7	9.7	<1	2.8	141.0	0.57	0.11	12.95	0.228	2.32	3.7
W594832		12.0	122.0	0.004	0.56	18.30	10.1	<1	2.7	164.5	0.58	0.10	11.70	0.257	2.01	3.0
W594833		15.5	110.5	0.006	0.16	4.07	9.6	<1	2.4	314	0.58	<0.05	10.90	0.243	1.85	3.1
W594834		58.1	135.0	0.002	0.98	4.36	10.7	<1	3.1	219	0.66	0.05	11.00	0.233	2.39	3.8
W594835		9440	112.0	0.002	>10.0	237	7.9	2	10.9	99.5	0.39	1.96	7.74	0.147	2.00	4.8
W594836		68.7	164.0	0.004	0.90	3.51	10.7	<1	3.4	204	0.66	0.12	12.85	0.236	2.65	4.0
W594837		22.4	116.0	0.005	0.72	1.92	10.7	<1	2.7	319	0.69	0.13	12.55	0.238	1.99	3.9
W594838		19.0	126.0	0.006	0.81	3.55	10.3	<1	2.6	300	0.67	0.06	11.50	0.228	2.11	3.5
W594839		15.1	120.5	<0.002	0.36	4.64	9.7	<1	2.4	253	0.64	<0.05	11.10	0.229	2.15	3.4
W594840		45.2	133.5	<0.002	0.31	16.10	10.3	<1	2.5	191.5	0.65	0.05	11.60	0.238	2.40	3.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215135

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594801		62	1.1	18.0	429	21.9	0.010
W594802		54	1.4	17.3	430	21.1	0.009
W594803		58	1.3	18.9	444	30.4	0.008
W594804		36	0.9	14.0	289	33.5	0.008
W594805		63	1.4	13.5	247	21.9	0.028
W594806		56	1.7	17.0	510	24.0	0.039
W594807		3	0.1	2.3	9	2.1	<0.005
W594808		66	1.1	9.7	572	23.3	0.012
W594809		57	1.7	4.5	278	21.0	0.030
W594810		64	2.3	5.2	232	19.0	0.052
W594811		62	1.7	22.2	1720	20.8	0.024
W594812		57	2.3	4.3	400	19.1	0.288
W594813		65	2.0	7.4	899	22.4	0.098
W594814		65	5.6	11.4	2850	28.1	0.635
W594815		67	1.5	14.1	521	22.6	0.042
W594816		58	1.7	13.3	261	21.1	0.026
W594817		57	1.1	13.1	300	22.8	0.023
W594818		57	1.0	14.1	621	23.7	0.025
W594819		58	1.4	14.6	1220	21.5	0.012
W594820		59	2.4	14.1	157	21.4	0.019
W594821		61	2.3	14.8	159	22.4	0.016
W594822		62	1.3	15.4	196	22.5	0.012
W594823		62	2.3	16.1	218	23.5	0.018
W594824		64	2.6	14.7	178	22.5	0.012
W594825		60	1.7	14.8	193	22.6	0.012
W594826		64	1.1	14.4	163	22.8	0.020
W594827		63	0.9	13.7	118	23.6	0.018
W594828		61	0.9	13.6	111	22.4	0.025
W594829		68	1.3	16.3	153	26.6	0.007
W594830		67	1.7	14.8	177	22.3	0.035
W594831		64	1.8	15.4	159	21.8	0.025
W594832		68	1.8	14.6	67	21.2	0.015
W594833		64	1.1	14.2	46	21.5	<0.005
W594834		62	1.5	14.6	103	23.5	0.018
W594835		49	5.0	9.6	>10000	23.5	2.94
W594836		65	1.5	16.0	188	22.6	0.014
W594837		63	1.5	15.4	73	22.2	0.014
W594838		57	2.2	14.2	50	22.5	0.044
W594839		65	1.9	12.6	46	21.8	0.016
W594840		63	3.2	15.0	76	20.9	0.005

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215135

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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CERTIFICATE WH20215137

Project: Klaza

P.O. No.: Batch 24

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20215137

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594841		3.05		4.67	5.82	196.5	620	1.51	4.50	3.24	2.96	42.8	9.4	7	19.05	315
W594842		2.44		0.23	6.78	47.3	460	1.89	0.14	2.80	0.15	55.3	9.1	18	23.9	11.1
W594843		3.65		1.56	7.14	67.1	1950	1.96	0.19	2.97	0.31	59.8	8.6	19	27.0	154.5
W594844		3.11		3.13	7.31	506	300	1.58	0.82	1.99	3.45	50.5	12.3	7	19.70	92.6
W594845		4.72		0.95	7.40	75.7	1770	1.61	0.46	2.06	1.43	50.3	8.3	7	18.55	69.1
W594846		5.05		1.09	7.03	37.0	3630	1.63	0.40	2.42	12.85	49.8	7.2	7	22.6	64.9
W594847		0.26		9.97	6.85	1990	170	1.53	6.36	1.72	37.8	46.8	12.6	29	18.05	201
W594848		4.93		0.40	7.18	36.8	770	1.54	0.60	2.63	0.77	48.2	8.0	8	18.85	60.4
W594849		4.56		0.68	7.07	101.0	560	1.71	0.66	2.77	0.37	49.4	10.7	7	19.95	262
W594850		3.86		1.07	7.64	173.0	540	1.66	0.63	2.84	2.09	50.8	10.5	8	16.55	116.5
W594851		4.98		4.11	7.43	144.5	150	1.55	0.75	2.41	2.30	46.7	14.3	7	22.6	218
W594852		4.56		0.49	7.62	56.4	1370	1.85	0.72	2.22	0.15	52.0	10.1	7	17.10	207
W594853		<0.02		0.44	7.35	54.9	1320	1.67	0.70	2.20	0.15	43.6	10.0	7	15.85	218
W594854		5.77		0.24	7.06	19.7	3100	1.66	0.54	2.67	0.10	41.4	7.2	10	16.50	128.5
W594855		5.56		1.08	7.22	135.0	1690	1.78	1.05	2.82	0.59	47.8	6.9	10	18.10	176.0
W594856		5.84		0.42	7.49	86.2	2450	1.81	0.49	2.74	0.14	51.0	8.9	9	17.35	140.5
W594857		5.78		0.24	7.34	14.0	2940	1.94	0.51	2.67	0.10	46.0	8.8	8	16.55	141.5
W594858		6.11		0.24	7.55	13.5	2680	1.85	0.41	2.62	0.11	47.1	7.6	8	21.0	124.0
W594859		5.72		0.32	7.24	19.9	1790	1.80	0.64	2.73	0.10	42.7	13.8	8	16.05	153.5
W594860		4.83		<0.01	0.15	<0.2	30	0.10	0.02	34.8	0.02	1.17	0.6	2	0.07	2.2
W594861		5.33		1.12	7.42	67.4	1010	1.29	0.94	2.65	0.45	47.1	13.5	8	18.05	126.0
W594862		5.40		0.81	7.72	92.7	1060	1.22	0.66	2.28	1.11	51.2	7.1	7	20.9	147.5
W594863		5.81		0.64	6.80	42.8	680	1.08	0.76	2.87	0.67	65.4	20.4	7	11.15	91.0
W594864		4.72		0.43	6.48	51.2	1780	1.25	0.56	2.98	0.10	46.3	10.1	7	13.75	152.5
W594865		5.33		0.32	6.88	42.8	2170	1.35	0.55	2.53	0.09	43.4	7.1	8	16.30	120.0
W594866		4.82		0.20	6.94	26.6	1630	1.52	0.45	2.65	0.07	56.1	7.7	7	13.00	45.4
W594867		0.26	1.425	92.1	4.70	3980	820	0.99	53.4	1.48	195.5	31.6	56.1	35	10.10	1260
W594868		5.51		0.86	7.12	90.4	1650	1.51	0.73	2.76	0.14	49.3	12.2	8	9.47	430
W594869		5.37		0.86	7.34	41.8	2460	1.57	0.59	2.50	0.18	48.5	12.3	9	12.35	220
W594870		5.15		1.18	5.99	148.0	280	1.30	0.81	2.10	2.68	31.9	15.2	7	12.35	80.7
W594871		3.09		1.09	7.42	665	1850	1.43	0.35	2.33	3.69	40.3	7.6	7	12.65	57.6
W594872		1.45		4.35	7.40	1510	1400	1.54	0.40	2.30	3.05	43.1	8.3	7	12.90	78.2
W594873		3.17		18.05	7.34	1610	730	1.39	0.35	2.25	100.5	41.6	7.2	7	15.60	141.0
W594874		5.10		1.91	7.81	168.5	1090	1.54	0.39	2.81	7.17	50.6	13.8	7	15.55	100.0
W594875		4.89		0.44	8.34	76.6	1080	1.57	0.61	2.74	0.40	53.5	11.7	8	22.9	96.1
W594876		4.78		5.64	7.23	319	510	1.37	0.77	2.23	5.18	41.2	12.7	8	19.25	706
W594877		2.72		2.10	7.63	280	800	1.52	0.50	3.05	6.18	41.6	8.9	7	18.35	432
W594878		5.70		2.43	7.88	237	920	1.41	0.47	2.00	4.44	58.7	11.4	7	17.80	422
W594879		5.51		2.29	7.88	234	1310	1.68	0.47	2.51	0.39	45.9	13.3	7	17.05	942
W594880		5.45		0.92	7.98	157.0	1370	1.65	0.31	2.50	0.35	61.7	11.7	8	28.6	335

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CERTIFICATE OF ANALYSIS WH20215137

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594841		2.92	12.65	0.11	0.7	0.127	2.30	24.5	99.1	1.01	2330	2.40	0.03	6.1	2.6	420
W594842		2.45	16.60	0.13	3.5	0.029	2.76	30.0	49.0	1.05	1470	1.83	0.03	10.0	6.9	1040
W594843		2.98	17.35	0.13	3.9	0.044	2.96	32.9	51.4	1.22	929	2.01	0.04	10.8	7.5	1250
W594844		3.69	16.00	0.12	0.7	0.147	3.31	28.2	107.5	0.79	2310	11.40	0.03	7.7	2.8	550
W594845		3.07	16.50	0.12	0.7	0.061	2.99	27.4	93.2	0.74	1510	4.36	0.25	7.8	2.4	590
W594846		2.40	16.05	0.11	0.7	0.046	3.10	27.3	117.0	0.73	1020	2.81	0.18	7.4	2.2	530
W594847		6.14	15.45	0.10	1.0	0.704	3.06	26.4	46.2	0.75	2030	8.96	0.07	6.7	19.5	540
W594848		3.14	16.15	0.12	0.7	0.047	3.46	25.4	41.6	0.81	971	1.89	0.24	7.0	2.5	580
W594849		2.88	16.30	0.14	0.7	0.062	3.63	27.3	40.6	0.88	645	13.20	0.28	5.1	3.7	560
W594850		3.24	16.70	0.14	0.5	0.091	3.31	28.7	75.8	1.00	1890	11.55	0.04	6.8	4.0	550
W594851		4.19	17.20	0.11	0.8	0.062	3.24	25.0	39.5	0.81	2270	1.94	0.03	4.8	2.9	560
W594852		2.89	17.15	0.11	0.6	0.094	3.48	30.0	115.0	0.78	656	6.73	0.11	5.4	2.7	550
W594853		2.79	14.90	0.11	0.7	0.091	3.39	23.9	106.5	0.77	669	5.83	0.10	4.7	2.4	560
W594854		2.60	16.10	0.13	0.6	0.072	3.22	22.1	11.9	0.71	643	3.33	1.38	7.5	2.3	600
W594855		2.83	16.65	0.13	0.7	0.108	3.63	25.5	28.4	0.80	1210	9.42	0.68	7.5	2.4	580
W594856		3.08	17.05	0.14	0.7	0.080	3.41	27.7	13.6	0.78	1190	9.42	1.46	8.1	2.6	570
W594857		2.67	17.00	0.13	0.7	0.083	2.98	25.4	12.1	0.67	600	3.67	1.87	8.1	2.3	550
W594858		2.68	17.70	0.14	0.7	0.089	2.73	24.4	11.7	0.72	512	2.14	2.34	8.3	2.4	600
W594859		2.81	17.10	0.12	0.6	0.103	2.72	21.8	18.6	0.61	492	22.0	1.89	7.3	2.5	580
W594860		0.09	0.49	0.11	0.1	<0.005	0.05	1.4	1.0	1.35	90	0.07	0.07	0.3	2.2	70
W594861		2.97	17.20	0.11	0.6	0.133	2.81	26.6	65.9	0.81	1100	48.1	0.08	4.8	2.3	470
W594862		2.75	13.50	0.10	0.6	0.068	3.36	30.0	98.9	0.81	1020	3.72	0.05	4.0	2.0	570
W594863		3.34	13.70	0.10	0.7	0.139	2.91	38.3	34.2	0.88	863	24.6	0.55	4.0	2.9	540
W594864		2.69	14.65	0.09	0.6	0.094	2.60	24.7	26.4	0.84	797	11.80	1.19	6.7	2.0	530
W594865		2.56	14.25	0.10	0.6	0.066	2.63	23.1	56.7	0.68	436	4.34	1.27	7.1	2.0	540
W594866		2.18	14.00	0.11	0.8	0.079	2.92	32.9	34.5	0.78	513	2.05	0.99	7.3	2.0	430
W594867		11.75	10.45	0.08	0.8	4.48	2.01	16.8	27.1	0.52	1870	16.55	0.16	4.2	14.1	380
W594868		2.43	15.20	0.09	0.7	0.157	2.61	28.0	15.2	0.62	547	7.91	1.60	6.9	2.3	570
W594869		2.67	15.00	0.10	0.7	0.121	2.89	28.3	34.5	0.65	621	8.68	0.95	7.2	2.4	550
W594870		3.57	16.80	0.09	0.6	0.152	2.67	15.6	22.7	0.74	1240	119.0	0.08	5.6	3.9	500
W594871		2.21	14.45	0.14	0.7	0.109	3.32	23.2	12.5	0.82	912	142.5	0.07	7.1	2.8	470
W594872		2.47	14.90	0.14	0.7	0.122	3.31	24.4	13.5	0.81	929	158.0	0.06	7.2	2.1	490
W594873		3.14	14.90	0.13	0.7	0.238	3.35	22.0	18.3	0.78	1820	47.0	0.04	7.2	2.2	510
W594874		2.83	15.70	0.13	0.8	0.119	3.57	28.4	38.7	0.98	1200	11.65	0.08	7.7	2.4	530
W594875		2.97	16.40	0.14	0.7	0.118	3.51	29.6	41.3	0.95	1040	7.14	0.07	8.3	2.5	590
W594876		3.39	16.15	0.12	0.6	0.221	3.24	22.9	45.4	0.85	1190	24.3	0.04	5.8	3.1	520
W594877		2.78	15.95	0.12	0.8	0.221	3.71	21.8	45.3	0.95	1420	29.7	0.04	8.6	2.8	570
W594878		2.52	17.20	0.13	0.6	0.101	3.72	33.6	20.8	0.77	2290	75.4	0.03	7.1	2.7	580
W594879		2.69	16.15	0.13	0.7	0.157	3.43	25.1	108.0	0.83	831	16.10	0.09	8.0	2.8	580
W594880		2.87	17.15	0.16	0.7	0.109	3.60	34.4	52.7	0.87	1200	9.70	0.04	8.3	2.8	600

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215137

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594841		143.5	140.0	0.002	1.48	107.5	8.4	1	1.8	136.0	0.47	0.06	10.25	0.168	2.43	3.4
W594842		16.4	122.0	0.003	0.51	15.40	8.6	<1	1.3	338	0.64	<0.05	8.80	0.300	3.17	5.9
W594843		21.2	128.5	<0.002	0.39	30.4	9.0	<1	1.4	640	0.71	<0.05	9.43	0.327	3.55	4.8
W594844		137.0	199.5	0.009	2.63	26.6	10.7	1	3.4	111.5	0.60	0.08	12.90	0.220	3.47	4.6
W594845		127.0	138.0	0.004	0.77	13.30	11.0	<1	2.9	194.5	0.63	0.05	13.35	0.230	2.63	3.8
W594846		140.0	124.0	0.004	0.58	10.05	10.0	<1	2.6	213	0.60	<0.05	15.55	0.210	2.40	4.2
W594847		1830	179.5	<0.002	3.50	48.5	10.3	1	6.2	82.6	0.52	0.22	11.75	0.208	2.84	4.6
W594848		41.3	153.0	0.002	1.43	8.26	11.1	1	2.4	231	0.55	0.08	12.00	0.225	2.75	3.8
W594849		23.0	185.0	0.026	1.53	10.35	11.4	1	1.8	270	0.45	0.10	13.80	0.180	2.85	3.8
W594850		215	208	0.014	1.87	13.75	11.1	1	3.0	141.5	0.49	0.10	11.60	0.215	3.07	3.6
W594851		470	183.0	0.002	3.08	29.2	10.6	1	3.2	197.5	0.45	0.10	14.10	0.154	3.23	3.3
W594852		14.6	189.5	0.006	1.38	13.10	10.1	1	3.2	153.5	0.46	0.15	14.45	0.175	2.86	3.8
W594853		14.6	169.0	0.007	1.35	11.85	8.8	1	2.9	147.0	0.43	0.14	13.15	0.174	2.87	3.5
W594854		11.8	149.0	0.004	0.89	6.07	11.1	<1	3.1	312	0.52	0.08	10.45	0.234	2.30	3.4
W594855		54.2	182.5	0.009	1.43	6.54	11.1	1	3.6	237	0.56	0.09	11.85	0.222	2.80	4.0
W594856		19.8	158.0	0.007	1.14	4.70	11.0	1	3.2	445	0.63	0.06	13.65	0.232	2.33	4.5
W594857		13.0	137.0	0.003	0.92	2.23	10.7	<1	3.2	1525	0.66	0.06	13.85	0.219	1.98	4.5
W594858		15.3	106.5	0.002	0.69	1.67	11.9	<1	3.8	683	0.63	0.06	12.75	0.244	1.40	4.1
W594859		14.1	113.0	0.010	1.21	3.56	10.9	<1	4.1	371	0.56	0.07	12.75	0.222	1.57	3.6
W594860		0.5	1.6	<0.002	0.01	0.07	0.2	1	<0.2	89.4	<0.05	<0.05	0.14	0.005	0.02	0.2
W594861		19.4	122.5	0.021	1.71	17.15	6.3	<1	8.4	154.0	0.41	0.19	12.00	0.163	2.26	3.7
W594862		61.0	145.0	<0.002	1.78	38.6	7.1	1	3.0	151.0	0.35	0.07	15.05	0.154	2.58	3.9
W594863		31.1	120.5	0.027	1.84	6.70	7.1	1	6.0	100.0	0.36	0.12	12.25	0.148	2.13	3.3
W594864		10.5	109.0	0.006	1.14	4.77	7.5	1	5.1	215	0.56	0.09	10.85	0.197	2.10	2.8
W594865		12.6	105.5	0.002	1.07	4.58	7.7	<1	4.0	291	0.58	0.11	12.95	0.209	1.91	3.0
W594866		7.4	127.5	<0.002	0.71	3.51	7.0	<1	3.4	149.5	0.67	0.07	18.05	0.166	2.10	5.9
W594867		9350	107.5	0.002	>10.0	226	5.8	2	10.6	90.8	0.34	1.89	7.54	0.142	1.94	5.1
W594868		10.4	112.5	0.010	0.88	4.75	8.4	<1	4.4	203	0.56	0.08	14.90	0.201	1.51	3.9
W594869		15.2	121.5	0.008	0.96	23.1	9.0	1	4.6	208	0.59	0.12	14.95	0.207	1.77	4.8
W594870		157.5	127.0	0.141	2.07	13.30	8.5	1	5.8	78.2	0.50	0.19	13.60	0.156	2.01	3.6
W594871		76.2	144.5	0.152	0.92	12.60	8.5	1	4.3	76.7	0.62	0.06	15.75	0.177	2.18	3.9
W594872		206	148.0	0.182	1.23	20.8	9.3	<1	4.6	80.2	0.62	0.07	15.55	0.183	2.22	4.0
W594873		3300	163.0	0.052	2.14	37.9	9.0	1	6.9	77.9	0.59	0.07	13.70	0.203	2.77	3.2
W594874		251	170.0	0.009	1.34	24.7	10.3	1	4.9	102.0	0.64	0.06	15.20	0.211	2.58	4.6
W594875		29.5	179.5	0.004	1.67	11.00	11.2	1	5.8	142.5	0.64	0.09	14.80	0.242	3.04	4.8
W594876		213	184.5	0.023	2.43	72.4	9.2	1	5.1	107.5	0.52	0.07	15.25	0.190	2.73	4.0
W594877		71.4	176.0	0.019	1.05	32.1	10.0	1	3.7	119.0	0.70	0.06	14.60	0.222	3.08	4.5
W594878		115.5	215	0.080	1.59	52.3	10.3	1	2.5	138.0	0.58	0.10	15.70	0.210	3.30	7.8
W594879		25.6	173.0	0.014	1.18	23.1	9.8	<1	2.9	161.5	0.68	0.09	17.75	0.215	2.40	5.5
W594880		19.2	191.0	0.012	1.43	26.5	11.2	1	3.9	164.0	0.65	0.05	16.30	0.226	3.16	4.7

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215137

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594841		46	2.8	15.9	215	23.7	0.117
W594842		69	3.1	14.7	38	141.0	0.009
W594843		75	1.4	14.7	88	153.5	0.032
W594844		60	3.3	15.9	285	22.7	0.312
W594845		61	2.8	16.1	142	18.3	0.020
W594846		57	3.6	16.0	804	20.0	0.010
W594847		65	5.7	12.9	2850	28.5	0.610
W594848		63	2.0	15.9	86	18.4	0.019
W594849		57	2.4	16.1	64	17.8	0.027
W594850		58	2.2	15.3	157	15.9	0.082
W594851		55	2.2	16.4	155	20.6	0.051
W594852		57	1.2	15.8	43	19.5	0.024
W594853		57	1.1	14.2	43	17.9	0.023
W594854		64	0.7	14.4	39	17.3	0.014
W594855		63	1.0	15.3	77	19.7	0.051
W594856		64	0.9	17.3	49	21.0	0.043
W594857		62	0.7	16.2	44	19.5	0.011
W594858		66	0.7	18.2	45	19.4	0.009
W594859		63	0.9	15.9	41	17.7	0.027
W594860		2	<0.1	2.4	4	1.8	<0.005
W594861		82	1.2	13.2	52	15.4	0.049
W594862		57	1.6	13.2	107	16.3	0.031
W594863		63	1.2	12.6	77	17.5	0.042
W594864		60	0.8	14.1	44	16.7	0.030
W594865		59	1.0	12.9	36	17.2	0.016
W594866		46	1.0	11.5	36	19.6	0.015
W594867		48	4.8	9.4	>10000	20.6	2.91
W594868		60	0.7	11.6	48	19.1	0.047
W594869		65	0.7	13.3	40	19.1	0.037
W594870		75	1.3	12.4	185	16.8	0.056
W594871		54	0.9	12.1	300	21.3	0.391
W594872		56	1.0	12.4	235	21.8	0.539
W594873		57	2.2	12.2	6170	19.3	0.474
W594874		64	1.2	13.3	510	23.7	0.042
W594875		68	1.5	15.0	53	22.3	0.029
W594876		74	1.3	12.5	399	19.8	0.115
W594877		62	1.0	13.2	509	23.9	0.070
W594878		64	1.8	14.1	382	19.8	0.086
W594879		62	1.0	13.2	74	20.6	0.106
W594880		68	1.1	14.3	71	21.1	0.068

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215137

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215140

Project: Klaza

P.O. No.: Batch 25

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215140

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594881		5.09		1.03	7.38	58.0	2070	1.59	0.36	2.85	0.34	37.9	5.0	9	13.10	95.1
W594882		2.40		0.51	7.33	13.9	2130	1.47	0.25	3.39	0.14	33.3	7.7	8	11.50	248
W594883		2.64		0.47	7.79	10.2	2370	1.51	0.21	3.19	0.16	35.4	8.6	10	14.40	216
W594884		5.12		0.32	9.05	7.8	1560	1.33	0.27	5.41	0.21	49.7	22.1	22	12.50	55.9
W594885		3.04		0.50	8.88	37.1	1350	1.44	0.19	5.82	0.50	50.5	21.0	21	23.4	57.5
W594886		4.24		0.11	8.31	4.7	1600	1.26	0.10	4.48	0.21	36.5	15.6	17	9.80	30.1
W594887		<0.02		0.12	8.45	4.4	1590	1.24	0.10	4.45	0.21	37.0	15.6	18	9.75	29.3
W594888		4.54		1.35	9.09	20.8	1160	1.06	0.07	5.64	5.40	36.4	20.6	29	7.53	23.6
W594889		4.69		0.09	9.10	8.4	1190	1.23	0.07	5.24	0.19	40.0	19.0	21	20.8	18.1
W594890		5.00		0.11	8.88	7.5	1410	1.21	0.08	5.75	0.32	39.5	18.4	28	31.8	13.6
W594891		4.66		0.07	8.50	8.4	1220	1.09	0.07	5.12	0.17	36.8	17.6	22	51.6	12.2
W594892		6.13		0.14	8.40	4.2	1320	0.93	0.07	5.29	0.21	29.8	16.1	22	10.20	44.8
W594893		5.13		0.01	0.12	<0.2	20	0.07	0.02	35.6	0.02	1.07	0.7	1	0.12	1.4
W594894		2.62		5.36	8.13	95.3	1160	1.11	0.55	5.33	11.85	37.8	15.4	13	26.5	120.0
W594895		6.08		0.17	8.72	11.2	1590	1.21	0.08	5.19	0.20	37.4	15.0	15	33.1	54.2
W594896		5.29		0.44	9.25	11.6	1890	1.27	0.37	5.22	3.05	50.6	16.4	17	20.1	35.0
W594897		2.02		4.32	8.42	110.5	1590	1.23	4.44	4.39	51.9	45.8	14.3	16	23.5	85.0
W594898		2.06		0.11	8.79	5.3	1790	1.18	0.11	5.06	0.44	41.8	15.3	17	18.30	25.5
W594899		3.35		0.69	8.09	71.3	1080	1.16	0.11	5.52	0.31	39.7	15.4	14	28.9	149.5
W594900		1.03		0.81	8.01	80.7	620	1.13	0.09	5.54	0.27	42.4	15.0	13	30.5	125.0
W594901		4.33		0.10	9.09	17.0	1670	1.37	0.11	5.05	0.22	46.8	15.9	26	34.0	22.2
W594902		5.72		0.16	8.94	6.6	1830	1.26	0.09	5.10	0.21	44.0	16.4	18	14.50	53.9
W594903		1.98		12.30	8.34	59.6	1310	1.39	0.09	5.32	111.5	45.3	15.2	14	35.5	82.6
W594904		5.83		0.13	8.78	11.1	1800	1.22	0.09	5.08	0.27	46.4	16.2	18	26.5	33.1
W594905		3.87		0.11	8.53	11.8	1440	1.27	0.08	4.99	0.34	41.6	15.3	17	34.6	23.9
W594906		5.65		4.15	8.73	518	1180	1.36	0.08	5.00	68.3	43.5	15.9	17	24.0	34.2
W594907		6.01		0.14	8.68	8.1	1360	1.13	0.08	4.91	0.22	43.9	16.9	21	25.5	39.9
W594908		0.26		10.95	6.91	2020	210	1.58	6.75	1.78	40.1	52.6	12.6	30	17.75	200
W594909		6.26		0.33	8.52	612	1460	1.21	0.20	5.18	0.82	46.0	18.6	27	39.6	33.4
W594910		5.78		0.10	8.62	5.7	1450	1.15	0.07	5.18	0.18	42.7	17.3	26	20.5	28.2
W594911		3.77		0.13	8.69	6.0	1410	1.35	0.08	5.02	0.24	49.7	19.9	26	15.60	38.3
W594912		6.00		0.90	8.34	6.8	1390	1.28	0.08	5.11	3.66	53.2	17.8	24	12.40	25.2
W594913		2.45		6.33	7.84	696	1100	1.50	0.10	4.13	31.4	45.0	17.9	24	33.4	77.1
W594914		0.26	1.480	93.6	4.71	3970	860	0.98	50.1	1.52	197.0	33.6	60.7	37	9.53	1250
W594915		5.80		0.38	8.48	21.0	1050	1.45	0.10	4.35	0.88	43.6	17.6	27	33.9	22.4
W594916		3.97		0.91	7.65	39.6	900	1.26	0.10	3.65	2.43	42.8	17.3	25	34.2	31.9
W594917		5.47		0.10	8.35	13.3	920	1.19	0.09	3.45	0.23	42.2	16.2	27	51.0	27.4
W594918		1.70		21.7	8.43	78.8	1190	1.35	24.6	5.42	3.33	46.6	17.8	26	23.3	1265
W594919		5.12		0.17	8.55	7.1	1410	1.39	0.20	5.19	0.29	45.1	19.9	27	23.4	22.7
W594920		5.06		0.09	8.86	3.9	1290	1.34	0.09	4.86	0.18	38.7	16.6	23	10.75	22.3

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215140

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594881		2.97	15.85	0.14	0.7	0.092	3.56	18.1	25.1	0.73	789	3.07	1.08	8.5	2.2	550
W594882		2.65	16.00	0.12	0.6	0.078	2.84	16.0	9.5	0.70	390	5.95	2.16	8.5	2.5	550
W594883		3.17	18.50	0.12	0.7	0.077	2.43	17.4	13.3	0.90	475	8.97	2.71	8.0	3.5	660
W594884		5.67	22.7	0.12	0.9	0.064	1.81	22.4	14.9	2.31	1120	2.05	2.66	7.1	16.9	1460
W594885		5.43	22.2	0.13	0.9	0.063	2.22	23.5	53.5	2.02	1740	4.67	1.73	6.7	15.4	1400
W594886		4.80	21.0	0.12	0.6	0.058	1.97	16.0	18.6	1.88	946	3.19	2.85	7.7	4.2	950
W594887		4.82	20.4	0.12	0.6	0.055	1.97	16.7	18.7	1.89	957	3.34	2.84	7.5	4.0	950
W594888		6.19	21.6	0.11	0.8	0.072	1.38	16.1	19.5	2.75	1220	2.36	2.77	6.6	5.5	1110
W594889		6.07	21.9	0.12	0.8	0.079	1.53	17.6	17.0	2.19	1170	2.49	2.61	7.3	4.4	1130
W594890		5.60	21.3	0.12	0.7	0.080	1.70	17.9	50.0	2.15	1460	2.01	2.26	6.8	5.2	1030
W594891		5.39	19.65	0.10	0.7	0.055	1.57	16.8	163.5	2.07	1300	2.11	1.75	5.8	4.7	990
W594892		5.49	18.45	0.09	0.6	0.052	1.56	13.1	11.3	2.28	1120	1.86	2.69	5.4	4.1	1030
W594893		0.12	0.34	0.05	<0.1	<0.005	0.02	1.2	1.2	1.62	103	0.05	0.05	0.2	0.5	80
W594894		5.16	18.85	0.10	0.6	0.619	2.36	17.5	12.0	1.92	2780	2.15	1.40	5.7	3.5	940
W594895		5.15	20.7	0.10	0.5	0.065	1.81	16.9	18.8	1.78	1080	3.74	2.49	7.0	3.4	990
W594896		5.71	21.7	0.12	0.8	0.156	2.10	23.4	12.9	2.07	1430	3.33	2.78	8.1	3.9	1250
W594897		6.39	20.7	0.12	0.7	2.65	2.52	21.1	13.4	1.83	1400	2.58	1.61	7.1	3.4	1170
W594898		5.38	20.3	0.11	0.8	0.075	1.80	19.0	11.1	1.98	1170	5.72	2.81	7.6	3.6	1210
W594899		4.66	19.00	0.11	0.7	0.069	1.79	18.4	27.2	1.85	1510	12.45	1.05	6.7	3.5	1120
W594900		4.26	17.80	0.10	0.7	0.064	1.73	21.0	30.9	1.87	1570	14.35	0.61	6.4	3.3	1060
W594901		5.21	22.0	0.13	0.7	0.076	1.99	22.0	107.5	1.78	1220	2.20	2.22	7.6	4.0	1250
W594902		5.40	21.4	0.12	0.7	0.064	1.98	20.2	13.2	2.09	1160	17.15	2.90	7.5	4.1	1240
W594903		5.50	19.75	0.13	0.7	0.124	2.36	21.2	28.0	1.90	2210	2.46	1.33	6.9	3.7	1150
W594904		5.23	21.3	0.13	0.8	0.065	1.89	21.1	11.3	2.01	1140	3.79	2.69	7.3	4.0	1200
W594905		5.07	21.1	0.11	0.7	0.068	1.66	19.3	150.5	1.75	1200	3.57	1.70	6.7	3.7	1210
W594906		5.48	20.4	0.13	0.7	0.104	2.04	20.7	102.5	2.04	1430	9.94	1.59	6.3	3.9	1200
W594907		5.39	20.4	0.11	0.8	0.069	1.56	20.6	14.3	2.30	1090	2.37	2.58	6.3	6.1	1250
W594908		6.21	16.40	0.10	1.2	0.729	3.07	27.8	44.2	0.77	2060	9.61	0.07	7.2	18.3	530
W594909		5.71	20.7	0.10	0.8	0.085	1.61	21.8	38.4	2.20	1240	2.19	2.16	5.9	8.8	1310
W594910		5.60	20.1	0.09	0.9	0.063	1.60	19.2	13.9	2.35	1170	3.11	2.59	6.4	8.5	1340
W594911		5.58	22.7	0.12	1.0	0.072	1.63	22.9	19.9	2.38	1010	2.97	2.54	7.6	9.4	1320
W594912		5.33	21.0	0.10	0.9	0.170	1.57	25.1	17.0	2.15	1080	2.36	2.35	7.1	8.5	1260
W594913		5.29	19.20	0.10	0.8	0.198	1.86	21.5	98.6	1.88	1380	2.31	1.02	6.4	8.2	1150
W594914		11.65	11.80	0.09	0.7	4.33	2.01	16.9	29.0	0.54	1880	17.75	0.15	4.6	15.7	380
W594915		5.24	21.1	0.10	0.9	0.099	1.33	20.1	283	1.77	1280	1.93	1.32	7.1	8.5	1280
W594916		4.98	19.70	0.09	0.7	0.072	1.12	19.9	284	1.55	1570	2.47	0.03	6.4	7.8	1150
W594917		5.38	20.4	0.08	0.8	0.092	1.23	19.1	236	1.57	1140	2.78	0.36	6.7	7.7	1290
W594918		6.10	20.4	0.11	0.8	0.832	1.76	22.7	43.0	2.21	1840	2.62	1.91	6.5	8.4	1280
W594919		5.55	22.4	0.09	0.9	0.071	1.54	21.1	62.7	2.26	1240	2.44	2.14	7.2	9.4	1320
W594920		5.13	21.5	0.08	0.8	0.082	1.61	17.5	19.3	2.29	1020	3.17	2.78	6.5	7.5	1150

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Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215140

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594881		37.7	140.0	0.002	0.53	7.03	10.0	<1	3.7	263	0.68	<0.05	13.00	0.224	2.15	3.1
W594882		13.6	95.9	0.005	0.36	5.84	10.2	<1	3.6	365	0.65	0.05	10.00	0.235	1.31	2.4
W594883		14.7	66.2	0.010	0.23	2.76	10.9	<1	3.0	466	0.58	<0.05	7.78	0.264	0.96	1.9
W594884		21.3	50.5	<0.002	0.07	2.89	21.0	<1	1.4	1070	0.44	<0.05	4.59	0.545	0.70	1.4
W594885		65.3	78.5	0.002	0.50	13.45	20.5	1	1.4	863	0.43	<0.05	4.93	0.526	1.40	2.5
W594886		16.3	46.7	0.003	0.01	1.24	17.2	<1	1.4	716	0.49	<0.05	5.02	0.493	0.63	1.5
W594887		16.6	48.4	0.004	0.01	1.16	17.6	<1	1.3	714	0.48	<0.05	5.20	0.492	0.61	1.6
W594888		308	26.9	<0.002	0.05	2.02	21.8	1	1.5	820	0.39	<0.05	3.06	0.602	0.42	0.9
W594889		11.9	44.5	<0.002	0.01	5.04	21.8	<1	1.4	724	0.42	<0.05	4.08	0.597	0.51	1.2
W594890		14.4	49.0	<0.002	0.06	8.11	21.2	<1	1.4	714	0.40	<0.05	4.11	0.551	0.72	1.3
W594891		10.6	49.4	<0.002	0.07	9.55	19.3	<1	1.2	634	0.38	<0.05	3.83	0.515	0.78	1.3
W594892		12.2	26.6	<0.002	0.02	1.03	17.2	<1	1.1	772	0.35	<0.05	3.03	0.535	0.51	1.1
W594893		0.6	0.6	<0.002	0.01	0.06	0.2	1	<0.2	86.9	<0.05	<0.05	0.09	0.006	<0.02	0.2
W594894		442	85.8	0.002	1.06	15.95	17.4	<1	1.6	515	0.38	<0.05	3.89	0.469	1.52	1.4
W594895		14.7	52.6	0.002	0.05	5.41	18.4	<1	1.4	739	0.42	<0.05	4.28	0.522	0.72	1.5
W594896		99.8	64.1	0.002	0.15	2.80	19.7	<1	1.7	869	0.47	<0.05	5.74	0.530	0.76	1.9
W594897		1010	80.4	0.002	1.76	5.70	17.6	<1	5.2	585	0.44	<0.05	4.77	0.489	1.31	1.8
W594898		16.9	45.1	0.010	0.02	1.66	18.8	<1	1.4	868	0.48	<0.05	4.89	0.519	0.65	1.6
W594899		13.8	52.5	0.022	0.26	32.5	17.2	<1	1.3	515	0.44	<0.05	5.20	0.465	1.42	2.2
W594900		12.1	62.7	0.025	0.25	29.8	16.9	<1	1.7	405	0.43	<0.05	5.46	0.437	1.54	2.3
W594901		16.1	62.3	0.002	0.07	6.40	19.9	<1	1.4	770	0.45	<0.05	5.15	0.526	0.92	1.7
W594902		15.6	49.4	0.127	0.02	1.43	19.3	<1	1.4	914	0.45	<0.05	4.76	0.522	0.72	1.6
W594903		1905	88.0	<0.002	1.41	23.1	18.1	1	1.8	587	0.40	<0.05	5.05	0.477	1.43	1.9
W594904		17.2	63.6	0.004	0.04	3.02	19.3	<1	1.6	922	0.44	<0.05	5.30	0.498	0.80	1.8
W594905		15.0	47.9	0.002	0.03	18.30	18.9	1	1.5	681	0.40	<0.05	4.64	0.501	0.77	1.7
W594906		845	72.5	0.047	0.83	21.1	19.3	<1	2.0	662	0.38	<0.05	4.57	0.500	1.16	1.8
W594907		13.6	55.5	<0.002	0.01	1.28	22.4	<1	1.3	901	0.39	<0.05	4.84	0.521	0.70	1.6
W594908		1830	187.5	<0.002	3.56	52.7	10.7	1	6.7	86.1	0.56	0.24	12.85	0.214	2.96	4.9
W594909		64.9	66.0	<0.002	0.10	14.15	21.0	<1	1.3	820	0.37	<0.05	4.90	0.502	0.75	1.6
W594910		11.9	40.4	0.002	0.01	1.92	20.4	1	1.2	903	0.38	<0.05	4.12	0.523	0.55	1.4
W594911		14.5	48.3	<0.002	0.04	2.26	23.7	<1	1.5	889	0.43	<0.05	4.65	0.528	0.61	1.6
W594912		238	50.8	<0.002	0.11	3.46	22.2	<1	1.6	821	0.39	<0.05	4.92	0.494	0.52	1.6
W594913		1090	80.5	<0.002	0.99	39.3	19.5	<1	1.7	535	0.38	<0.05	4.13	0.458	1.41	1.8
W594914		9300	119.5	0.002	>10.0	238	7.5	2	10.5	93.6	0.34	1.97	7.41	0.146	1.81	4.5
W594915		98.6	42.9	<0.002	0.17	33.4	20.8	<1	1.4	582	0.41	<0.05	4.27	0.502	0.74	1.5
W594916		114.0	38.9	0.003	0.25	64.7	19.5	<1	1.3	280	0.37	<0.05	3.97	0.452	1.26	1.6
W594917		10.9	38.4	0.002	0.06	47.2	20.6	<1	1.5	311	0.39	<0.05	4.13	0.507	0.86	1.3
W594918		635	74.8	<0.002	0.75	27.5	20.8	<1	1.6	739	0.37	0.15	4.25	0.485	0.83	1.5
W594919		15.6	47.5	<0.002	0.02	7.58	22.3	<1	1.3	795	0.41	<0.05	4.18	0.511	0.58	1.4
W594920		12.8	38.4	<0.002	0.01	0.82	18.6	<1	1.4	921	0.37	<0.05	4.17	0.473	0.56	1.5

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Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215140

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594881		65	0.9	13.3	56	21.8	0.024
W594882		70	0.5	13.9	40	17.9	0.039
W594883		83	0.6	13.6	47	19.1	0.027
W594884		193	0.5	19.9	105	22.5	0.006
W594885		187	1.4	20.8	121	23.3	0.006
W594886		165	0.7	17.9	95	12.3	<0.005
W594887		163	0.6	18.1	95	12.7	<0.005
W594888		208	0.5	20.9	424	18.8	<0.005
W594889		193	0.7	22.2	107	19.3	<0.005
W594890		190	1.3	21.3	112	17.1	<0.005
W594891		178	0.6	19.1	95	15.9	<0.005
W594892		187	0.4	16.5	104	16.0	0.006
W594893		1	<0.1	2.2	4	1.7	<0.005
W594894		166	1.8	17.5	960	12.4	0.082
W594895		182	0.8	18.4	102	12.5	0.006
W594896		189	1.9	21.2	381	17.7	0.006
W594897		177	1.9	18.0	4920	15.9	0.047
W594898		182	0.7	18.9	124	19.3	<0.005
W594899		168	1.5	17.3	82	18.0	0.037
W594900		157	1.8	17.5	68	18.3	0.031
W594901		188	0.8	20.5	104	16.6	<0.005
W594902		187	0.6	19.4	100	16.7	0.007
W594903		172	1.8	19.8	6700	15.1	0.116
W594904		180	0.8	20.4	97	18.3	<0.005
W594905		184	2.2	18.9	109	15.9	<0.005
W594906		183	1.5	19.2	3910	15.9	0.099
W594907		185	0.6	20.8	99	18.7	0.005
W594908		65	6.4	13.0	2950	31.7	0.638
W594909		177	0.9	20.4	160	22.1	0.055
W594910		177	0.5	19.9	97	21.0	<0.005
W594911		177	1.1	22.5	104	22.4	<0.005
W594912		167	0.8	22.8	448	21.9	0.005
W594913		157	5.6	17.5	1920	18.7	0.082
W594914		48	4.4	9.8	>10000	21.9	2.86
W594915		174	17.1	20.0	161	22.9	<0.005
W594916		162	5.5	17.9	212	19.4	0.009
W594917		175	3.6	18.4	102	19.6	<0.005
W594918		173	1.3	20.6	363	19.3	0.013
W594919		179	0.9	20.9	115	22.3	<0.005
W594920		163	0.5	18.5	89	18.8	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215140

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215143

Project: Klaza

P.O. No.: Batch 26

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215143

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594921		1.92		4.15	8.40	56.8	1190	1.37	0.75	4.85	30.0	50.5	18.4	26	16.25	67.9
W594922		3.57		0.31	8.55	19.0	1090	1.28	0.32	5.10	1.14	49.7	18.7	28	18.60	28.2
W594923		2.54		0.12	8.84	10.1	1230	1.30	0.08	5.39	0.26	47.8	18.9	28	19.25	21.4
W594924		4.01		0.15	8.65	9.0	1210	1.24	0.08	5.28	0.28	52.4	19.3	32	11.95	22.8
W594925		4.43		0.12	7.99	11.0	1130	1.31	0.39	3.71	1.36	48.8	9.7	16	14.40	17.8
W594926		1.59		0.23	7.63	21.6	800	1.42	1.18	2.83	0.24	48.9	13.6	13	17.20	15.2
W594927		0.73		0.22	7.59	19.9	680	1.45	1.16	2.83	0.47	49.2	16.1	13	18.25	19.2
W594928		1.49		0.14	7.71	10.7	1010	1.40	0.42	3.15	0.13	44.2	8.7	14	13.55	23.7
W594929		1.60		14.65	7.12	284	220	1.32	0.55	2.68	3.60	40.1	7.7	11	16.45	46.6
W594930		4.95		0.18	7.30	13.6	520	1.48	0.40	2.73	0.49	47.4	8.6	13	20.8	26.5
W594931		5.65		3.02	7.64	98.0	370	1.29	1.16	3.06	2.10	45.4	12.5	7	19.35	127.5
W594932		0.26	1.475	95.1	4.73	4020	750	0.88	52.1	1.53	198.5	31.2	56.7	37	10.00	1270
W594933		5.30		0.73	7.17	45.9	1130	1.30	0.80	3.42	0.20	43.1	10.8	9	20.9	120.0
W594934		4.15		0.33	7.24	27.3	670	1.13	0.51	2.35	0.18	42.8	8.3	9	19.70	60.0
W594935		5.33		0.21	7.07	24.3	2640	1.23	0.31	2.47	0.12	34.6	5.8	8	16.55	76.4
W594936		1.72		0.27	7.36	23.3	1380	1.33	0.67	2.26	0.12	35.6	7.1	8	17.10	46.9
W594937		5.89		0.27	7.35	33.7	3180	1.38	0.24	2.22	0.11	36.3	6.9	9	15.45	120.0
W594938		0.26		9.58	6.65	1965	180	1.48	6.38	1.71	35.7	46.3	11.0	29	17.95	193.0
W594939		5.62		0.28	6.85	16.8	2340	1.61	0.28	2.27	0.12	42.2	6.4	8	15.15	64.2
W594940		2.92		0.37	7.01	26.2	1640	1.42	0.25	2.97	0.12	48.8	7.0	8	13.45	67.7
W594941		4.46		0.70	7.05	45.5	1380	1.60	0.25	2.61	0.42	39.3	7.8	6	24.8	91.0
W594942		3.45		0.25	7.28	19.7	2380	1.64	0.33	2.20	0.11	39.3	6.8	7	14.95	44.4
W594943		2.38		0.28	6.68	36.8	1870	1.23	0.29	2.46	0.10	37.4	7.9	7	14.25	128.0
W594944		1.56		0.19	6.97	23.3	2120	1.88	0.21	2.84	0.12	40.2	5.9	11	26.3	19.9
W594945		3.26		0.43	6.87	60.6	1780	1.54	0.46	2.43	0.15	34.5	10.2	7	16.30	151.5
W594946		3.14		0.19	6.23	16.2	1340	1.92	0.30	1.81	0.32	28.5	1.2	3	17.95	9.6
W594947		2.86		0.21	6.41	26.3	2510	2.07	0.47	2.09	0.32	31.0	1.7	3	18.25	17.1
W594948		<0.02		0.20	5.83	25.0	2410	2.03	0.46	2.07	0.31	23.0	1.8	3	17.95	17.5
W594949		3.42		0.09	6.52	12.6	1220	2.32	0.15	2.85	0.18	37.8	2.5	6	22.6	2.1
W594950		3.72		0.05	6.66	8.8	2070	2.11	0.04	3.14	0.22	39.7	3.8	9	20.4	3.2
W594951		3.05		0.20	6.66	35.1	490	2.37	0.04	2.80	0.65	42.1	4.2	11	22.1	3.5
W594952		2.37		0.10	6.62	7.6	2990	2.46	0.48	1.15	0.13	34.6	0.8	2	15.05	5.7
W594953		2.12		0.15	6.79	37.9	2200	2.13	0.36	1.01	0.10	49.4	2.8	10	18.55	5.9
W594954		4.93		0.01	0.11	<0.2	30	0.07	0.02	34.7	<0.02	0.97	0.6	2	0.07	1.1
W594955		3.79		0.09	7.07	17.3	5180	2.07	0.31	1.17	0.15	46.7	2.4	7	20.7	1.9
W594956		4.24		0.06	7.45	9.7	320	2.05	0.12	1.91	0.22	55.5	3.3	8	22.6	3.9
W594957		4.02		0.11	7.19	15.4	1080	2.13	0.37	2.06	0.29	45.9	2.1	5	24.8	3.2
W594958		4.80		0.53	7.51	62.1	3370	1.73	0.97	2.21	0.63	43.2	6.6	6	23.1	115.5
W594959		2.34		0.16	6.55	14.1	530	1.64	0.39	1.77	0.18	34.6	1.1	3	10.50	5.7
W594960		5.53		0.57	7.21	38.3	1600	1.51	0.57	2.46	0.30	47.9	16.0	9	14.75	76.1

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215143

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594921		6.25	21.2	0.11	0.8	0.987	2.04	24.6	14.7	2.31	1420	3.83	1.86	7.0	8.3	1290
W594922		5.44	21.1	0.11	0.7	0.098	1.77	23.3	18.2	2.35	1280	2.34	1.93	7.2	8.9	1340
W594923		5.78	22.5	0.11	0.7	0.092	1.54	21.9	17.1	2.29	1280	2.29	2.32	7.0	9.2	1390
W594924		5.57	22.5	0.12	0.8	0.080	1.45	24.8	14.5	2.32	1160	2.59	2.41	7.4	9.7	1300
W594925		3.62	19.90	0.11	0.8	0.027	1.94	22.8	34.1	1.14	934	2.66	0.83	7.3	3.4	880
W594926		4.01	18.75	0.11	1.2	0.111	3.16	23.8	44.8	1.01	643	3.08	0.66	5.8	2.3	720
W594927		4.17	18.80	0.12	1.3	0.093	3.31	23.8	32.3	1.00	620	2.45	0.70	5.6	2.3	700
W594928		3.39	19.45	0.11	1.3	0.015	2.74	20.7	104.5	0.85	476	2.73	0.54	4.2	2.3	750
W594929		5.92	14.65	0.10	1.1	0.031	3.45	20.5	18.6	1.07	632	5.45	0.12	2.4	1.9	660
W594930		3.55	18.30	0.10	1.4	0.017	3.17	23.9	27.9	1.02	493	3.07	0.06	3.3	2.2	680
W594931		2.89	14.35	0.11	0.9	0.057	3.68	25.7	12.7	0.73	1160	6.41	0.04	4.2	1.5	520
W594932		11.80	11.10	0.08	0.8	4.64	2.02	16.3	28.0	0.54	1910	17.25	0.16	4.5	13.5	370
W594933		3.08	15.00	0.08	0.9	0.022	3.54	23.1	13.1	0.90	634	3.77	0.37	3.4	2.2	600
W594934		2.83	15.00	0.09	0.8	0.017	3.42	23.1	9.1	0.80	348	2.77	1.33	3.7	1.8	540
W594935		2.10	14.50	0.08	0.6	0.018	2.99	18.7	16.9	0.82	386	4.10	1.45	3.6	1.8	530
W594936		2.79	15.70	0.09	0.5	0.064	3.31	20.2	10.6	0.81	532	8.52	0.91	5.2	1.6	580
W594937		1.94	14.90	0.10	0.7	0.018	3.54	18.9	26.6	0.64	349	3.62	1.65	5.3	1.8	520
W594938		5.96	14.65	0.09	1.0	0.709	2.94	25.2	42.1	0.74	1990	9.00	0.07	6.5	16.3	500
W594939		2.63	15.25	0.11	0.6	0.015	3.26	22.4	66.4	0.63	370	2.33	1.30	3.9	1.8	490
W594940		2.51	15.85	0.12	0.7	0.013	3.03	26.5	10.3	0.87	602	5.51	1.09	2.7	1.9	620
W594941		2.30	15.15	0.11	0.7	0.021	3.24	21.7	11.3	0.67	901	9.11	0.63	3.2	1.6	560
W594942		2.32	15.80	0.11	0.7	0.026	3.45	21.3	54.7	0.68	492	5.33	1.37	4.3	1.8	550
W594943		2.36	12.65	0.12	0.6	0.013	2.96	18.9	9.3	0.67	412	8.00	1.41	3.3	2.6	550
W594944		2.07	17.60	0.14	1.6	0.018	3.92	19.5	43.5	0.66	503	1.31	0.52	8.2	3.6	790
W594945		2.82	13.65	0.12	0.7	0.013	3.37	17.3	8.6	0.67	437	4.73	1.37	3.0	2.3	540
W594946		0.76	14.40	0.12	2.7	0.010	3.70	13.2	33.2	0.17	313	2.91	0.13	11.8	0.5	100
W594947		0.87	14.65	0.15	2.8	0.018	4.04	14.7	36.6	0.24	418	1.56	0.08	11.9	0.8	110
W594948		0.88	15.70	0.13	2.7	0.017	3.92	10.4	36.0	0.22	417	1.48	0.08	11.8	0.8	110
W594949		1.41	16.30	0.13	2.1	0.018	2.97	17.8	41.8	0.44	513	1.80	0.04	10.4	1.4	380
W594950		2.01	17.45	0.14	1.8	0.018	3.00	18.8	21.3	0.65	598	1.04	0.21	10.0	2.1	520
W594951		2.00	17.85	0.13	1.8	0.024	3.04	19.7	28.7	0.52	602	1.20	0.05	10.4	2.6	610
W594952		1.03	14.90	0.14	2.8	0.011	4.71	17.5	40.9	0.38	405	1.92	0.05	12.2	0.8	60
W594953		1.38	14.95	0.14	3.1	0.018	2.75	25.3	85.5	0.39	353	2.27	0.06	11.1	3.1	510
W594954		0.18	0.41	0.12	0.1	<0.005	0.03	1.1	1.0	1.68	97	0.08	0.05	0.2	0.5	80
W594955		1.37	15.90	0.20	2.2	0.022	2.71	24.2	46.9	0.43	432	1.41	0.03	11.1	1.6	440
W594956		1.77	17.65	0.17	1.9	0.020	3.14	28.5	25.2	0.64	442	1.53	0.04	10.8	1.8	510
W594957		1.53	16.20	0.18	2.5	0.018	2.70	23.7	43.8	0.63	537	2.81	0.04	11.6	1.3	240
W594958		2.45	16.75	0.15	1.0	0.033	3.66	21.2	20.2	0.72	655	5.93	0.83	7.5	2.2	560
W594959		0.96	15.65	0.16	2.7	0.013	3.91	17.1	57.2	0.28	332	6.01	0.15	11.6	0.7	90
W594960		2.71	14.95	0.15	1.1	0.025	4.03	24.1	29.9	0.70	887	13.05	0.78	5.5	3.1	540

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Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215143

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594921		1385	89.5	<0.002	1.09	7.14	21.5	<1	3.8	671	0.40	<0.05	5.16	0.511	0.99	1.7
W594922		30.8	61.9	<0.002	0.08	4.16	22.2	<1	1.6	714	0.40	<0.05	4.36	0.525	1.04	1.5
W594923		13.8	51.5	<0.002	0.06	4.64	23.2	<1	1.4	839	0.39	<0.05	4.13	0.527	0.66	1.4
W594924		18.2	48.5	<0.002	0.04	3.67	24.4	1	1.4	845	0.40	<0.05	4.84	0.501	0.54	1.5
W594925		14.3	68.5	0.010	1.32	6.95	15.5	2	1.9	250	0.48	<0.05	6.68	0.407	1.13	1.7
W594926		11.6	130.5	0.002	2.62	4.57	10.4	1	2.3	232	0.40	0.15	8.70	0.270	2.00	3.2
W594927		11.0	141.5	0.002	2.81	4.90	9.5	1	2.1	229	0.40	0.15	8.76	0.257	1.99	2.6
W594928		12.9	84.4	<0.002	2.17	8.27	10.0	1	1.2	310	0.29	0.05	7.55	0.235	1.49	2.7
W594929		5090	166.0	<0.002	5.22	26.7	7.2	1	2.9	142.5	0.16	<0.05	6.78	0.152	2.06	1.9
W594930		18.3	137.5	0.002	2.18	16.00	9.1	1	1.1	196.0	0.22	<0.05	7.91	0.171	2.30	2.4
W594931		247	181.0	0.005	2.22	21.3	6.9	1	3.5	214	0.36	0.07	12.50	0.135	2.99	3.4
W594932		9440	112.0	<0.002	>10.0	236	5.8	2	11.0	90.4	0.32	2.01	7.32	0.147	1.83	4.5
W594933		58.1	161.5	0.006	2.16	13.10	7.9	1	1.2	202	0.25	0.06	10.30	0.139	2.56	2.7
W594934		20.3	139.5	0.005	1.89	4.46	6.5	1	1.1	246	0.29	0.06	11.65	0.129	2.09	2.5
W594935		12.2	113.0	0.003	0.75	3.03	7.0	1	1.2	250	0.27	<0.05	10.85	0.124	1.83	2.4
W594936		13.7	145.0	0.007	1.47	2.90	9.1	1	3.9	149.0	0.36	0.09	11.60	0.178	2.03	3.6
W594937		18.2	123.0	0.002	0.68	2.13	8.4	1	1.5	325	0.37	<0.05	10.40	0.172	1.59	2.7
W594938		1795	168.5	<0.002	3.42	51.1	8.8	<1	6.3	79.7	0.49	0.23	11.20	0.205	2.69	4.5
W594939		17.7	121.0	<0.002	1.02	2.53	8.0	<1	1.2	280	0.29	<0.05	11.15	0.132	1.51	2.6
W594940		15.2	142.5	0.003	1.18	4.27	8.3	1	1.0	168.5	0.20	<0.05	11.45	0.097	2.11	2.7
W594941		85.8	148.0	0.006	1.33	5.50	7.7	1	2.0	153.5	0.24	<0.05	11.70	0.111	2.34	2.0
W594942		16.7	145.5	0.009	1.08	2.50	8.5	1	1.5	286	0.31	0.05	11.60	0.140	2.02	2.5
W594943		13.9	114.5	0.013	1.17	4.29	6.1	1	1.0	317	0.28	0.05	10.55	0.119	1.72	1.6
W594944		13.8	126.0	<0.002	0.39	3.21	8.1	1	1.7	676	0.59	<0.05	9.98	0.251	2.36	3.0
W594945		13.3	131.5	0.007	1.31	7.83	6.2	1	1.1	322	0.24	<0.05	10.20	0.099	1.90	1.7
W594946		39.7	140.5	<0.002	0.14	12.95	1.6	1	2.1	190.5	1.33	<0.05	11.70	0.048	2.91	6.0
W594947		43.9	152.5	<0.002	0.14	11.85	1.7	1	3.7	220	1.40	<0.05	12.50	0.059	3.36	7.8
W594948		42.0	141.5	<0.002	0.14	11.60	1.5	<1	3.7	215	1.36	<0.05	10.05	0.059	3.30	6.6
W594949		28.3	104.5	<0.002	0.08	4.58	3.3	<1	1.3	395	0.96	<0.05	9.86	0.142	1.89	7.1
W594950		30.3	103.5	<0.002	0.11	3.90	4.7	<1	1.4	409	0.82	<0.05	8.50	0.195	1.89	4.2
W594951		112.5	94.5	<0.002	0.14	7.10	4.9	<1	1.2	271	0.82	<0.05	8.21	0.218	2.08	4.6
W594952		32.1	187.0	<0.002	0.08	11.50	1.4	<1	2.6	116.0	1.42	<0.05	15.00	0.048	3.81	9.0
W594953		21.8	116.5	<0.002	0.15	19.05	3.1	<1	1.7	366	1.09	<0.05	12.90	0.160	2.10	8.5
W594954		0.7	1.1	<0.002	<0.01	0.08	0.1	1	<0.2	87.0	<0.05	<0.05	0.11	0.005	0.03	0.2
W594955		23.9	125.0	<0.002	0.19	10.15	3.5	<1	1.7	519	1.07	<0.05	12.70	0.146	2.03	6.4
W594956		29.3	135.0	<0.002	0.06	8.05	4.5	<1	1.5	258	0.89	<0.05	11.65	0.194	2.11	5.7
W594957		25.4	127.0	<0.002	0.06	13.50	2.9	<1	1.9	202	1.22	<0.05	14.05	0.110	1.90	9.1
W594958		40.8	138.5	0.003	0.48	22.5	8.7	1	3.2	301	0.58	<0.05	12.00	0.201	2.15	4.3
W594959		26.3	145.0	<0.002	0.06	19.15	1.8	<1	2.1	140.5	1.34	<0.05	14.10	0.046	2.93	8.5
W594960		31.5	180.5	0.007	1.53	8.01	9.3	1	1.7	233	0.49	0.11	15.55	0.177	2.30	4.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215143

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594921		178	1.3	21.5	3170	20.0	0.034
W594922		179	1.3	21.8	191	18.3	0.008
W594923		186	0.8	21.3	104	17.3	<0.005
W594924		176	0.9	24.0	102	19.5	<0.005
W594925		116	2.8	18.3	88	30.0	0.006
W594926		73	2.8	15.0	55	48.5	0.015
W594927		69	2.5	14.4	56	49.3	0.011
W594928		74	1.4	14.8	59	48.5	0.007
W594929		63	2.1	11.2	275	39.6	0.525
W594930		70	1.3	12.9	51	56.4	0.005
W594931		56	2.2	12.2	227	25.0	0.061
W594932		49	4.4	9.3	>10000	22.5	2.90
W594933		66	2.7	12.9	58	28.7	0.013
W594934		50	2.2	11.9	44	23.3	0.007
W594935		52	1.9	9.3	45	18.2	0.007
W594936		63	1.9	11.6	48	16.6	0.013
W594937		57	2.3	10.6	45	19.3	0.013
W594938		63	5.8	11.9	2840	29.4	0.651
W594939		56	2.0	13.3	43	18.0	0.025
W594940		49	1.8	13.1	45	20.0	0.009
W594941		51	2.3	10.6	75	20.7	0.017
W594942		53	2.2	11.6	43	19.9	0.006
W594943		48	2.3	9.6	46	19.4	0.016
W594944		62	1.5	10.8	52	65.6	0.021
W594945		46	2.7	9.2	47	21.9	0.010
W594946		5	1.7	10.6	50	70.6	<0.005
W594947		6	2.1	12.1	60	74.6	<0.005
W594948		6	2.1	9.9	60	74.1	<0.005
W594949		25	1.6	10.0	71	61.1	<0.005
W594950		37	1.5	10.7	77	53.1	<0.005
W594951		43	2.0	9.9	109	50.2	<0.005
W594952		3	1.8	13.3	41	76.5	<0.005
W594953		25	2.7	13.2	41	108.0	0.015
W594954		1	<0.1	2.0	4	3.5	<0.005
W594955		25	2.0	12.5	41	60.7	<0.005
W594956		36	2.2	12.5	66	56.5	<0.005
W594957		17	1.8	14.2	67	70.4	<0.005
W594958		57	2.2	13.1	101	29.9	<0.005
W594959		6	1.3	13.4	29	70.6	<0.005
W594960		58	2.5	12.4	62	31.0	0.017

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215143

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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CERTIFICATE WH20215147

Project: Klaza

P.O. No.: Batch 27

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215147

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W594961		4.30		0.66	7.38	138.0	280	1.43	1.16	1.74	2.11	58.4	25.9	9	14.10	54.6
W594962		5.87		0.19	7.74	8.1	1830	1.33	0.39	1.89	0.23	50.1	6.0	7	11.05	37.0
W594963		2.12		3.09	7.34	64.9	1170	1.66	0.38	2.61	24.9	40.4	5.7	9	15.45	99.0
W594964		2.68		0.29	7.70	22.5	2140	1.32	0.36	2.33	0.32	48.3	9.1	6	10.85	91.3
W594965		2.75		0.16	8.05	9.1	2250	1.43	0.38	1.96	0.22	51.0	5.1	8	7.47	47.6
W594966		5.63		0.21	8.09	10.5	1250	1.58	0.46	2.30	0.17	52.1	9.4	8	9.57	52.5
W594967		0.26		9.84	6.86	2010	190	1.45	5.52	1.69	36.5	45.5	11.6	28	16.30	204
W594968		3.69		0.24	8.50	11.3	2020	1.33	0.42	1.90	0.30	55.3	6.9	7	9.27	36.2
W594969		3.49		0.30	7.97	12.2	4210	1.51	0.36	2.36	0.26	49.3	5.9	7	12.20	24.1
W594970		4.15		0.36	7.36	23.7	2630	1.34	0.44	2.54	0.35	47.8	11.7	6	14.90	33.2
W594971		1.93		5.07	7.62	155.5	420	1.50	1.03	1.74	2.11	53.1	16.3	6	17.20	67.4
W594972		5.45		0.19	7.88	17.9	2000	1.19	0.36	1.80	0.28	48.4	8.5	6	7.80	73.0
W594973		3.66		0.99	7.40	64.7	920	1.40	0.42	2.43	0.94	48.4	11.3	6	11.80	114.0
W594974		<0.02		0.93	7.87	65.5	770	1.44	0.45	2.48	0.94	56.7	11.6	6	12.55	118.5
W594975		2.53		3.41	6.81	109.0	830	1.42	0.96	3.03	7.82	47.5	7.3	6	15.80	73.7
W594976		4.81		0.17	7.73	7.8	3350	1.54	0.32	2.10	0.18	54.3	8.8	8	10.00	62.3
W594977		4.17		0.26	7.61	5.4	3300	1.62	0.28	2.19	0.21	49.6	7.4	9	9.26	49.7
W594978		1.67		3.95	7.20	205	290	1.53	1.85	2.56	20.1	44.4	6.4	7	10.45	103.5
W594979		5.09		0.41	7.53	12.6	3080	1.37	0.28	1.87	1.43	53.1	6.5	8	12.40	32.6
W594980		4.84		0.37	7.35	17.7	2170	1.38	0.35	1.91	1.56	41.2	7.1	6	10.90	40.0
W594981		0.26	1.520	96.8	4.72	4090	880	0.96	50.5	1.58	202	32.6	62.1	35	9.58	1250
W594982		4.42		0.29	6.92	15.1	5350	1.52	0.30	2.58	0.33	40.3	7.6	7	11.05	58.8
W594983		2.97		0.50	7.10	27.1	3070	1.36	0.30	3.19	1.68	47.3	11.4	6	13.20	115.5
W594984		4.44		0.59	6.61	37.7	1350	1.28	0.54	2.47	0.80	41.9	15.6	6	10.55	135.0
W594985		4.42		0.88	7.40	23.5	2470	1.09	0.23	1.96	6.06	40.4	6.5	6	8.96	73.7
W594986		3.87		3.91	7.52	138.0	170	1.55	0.55	1.77	8.97	63.1	16.9	5	12.05	89.5
W594987		5.05		0.02	0.22	0.3	30	0.10	0.05	34.5	0.04	1.47	0.6	3	0.10	1.8
W594988		3.07		0.97	6.83	32.7	260	1.21	0.51	1.54	2.57	53.4	14.2	6	14.60	51.1
W594989		3.45		0.30	6.23	23.6	1580	1.10	0.27	1.36	0.34	46.0	6.2	5	28.7	16.4
W594990		3.73		7.66	5.97	191.5	410	1.09	0.67	1.41	52.4	52.0	8.1	7	11.90	123.0
W594991		2.48		2.57	7.20	89.8	1470	1.34	0.44	2.02	8.32	56.9	7.8	7	19.80	24.7
W594992		3.23		0.24	6.94	23.5	1500	1.46	0.27	2.23	0.49	41.7	6.2	7	13.65	11.7
W594993		1.23		0.20	7.31	17.5	1860	1.33	0.24	2.27	0.40	47.7	6.2	6	14.00	11.1
W594994		5.19		0.12	7.06	10.4	1980	1.19	0.28	1.79	0.26	44.6	6.9	7	10.35	6.7
W594995		3.97		0.10	7.56	8.6	2480	1.42	0.26	2.07	0.16	49.5	7.0	8	13.85	6.5
W594996		3.91		0.33	7.14	11.4	2230	1.31	0.25	2.35	1.13	42.1	7.0	7	16.30	10.0
W594997		1.94		37.5	6.84	39.0	2080	1.20	0.32	2.14	12.10	46.1	7.9	6	12.85	53.2
W594998		5.11		0.13	7.07	9.9	2420	1.29	0.18	2.47	0.21	38.3	6.4	7	14.00	5.9
W594999		3.58		0.31	7.16	10.9	2850	1.45	0.32	2.39	0.19	45.3	7.8	8	13.05	8.3
W595000		3.73		2.34	7.48	22.6	2730	1.54	0.38	2.51	8.26	55.6	7.6	10	13.45	19.2

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W594961		4.30	14.50	0.17	0.9	0.089	3.78	31.3	37.7	0.65	871	6.70	0.18	4.5	3.2	560
W594962		2.42	17.35	0.14	0.9	0.027	3.17	25.6	29.5	0.70	675	2.00	0.56	7.7	2.0	590
W594963		2.31	16.90	0.13	0.7	0.127	3.43	20.7	26.5	0.94	981	7.51	0.60	6.4	1.9	570
W594964		2.42	17.40	0.14	0.9	0.024	3.45	24.1	31.3	0.74	602	2.03	0.37	7.4	2.3	590
W594965		2.50	17.80	0.15	0.8	0.025	3.31	26.2	22.5	0.56	559	3.43	0.87	7.7	2.1	620
W594966		2.70	16.65	0.16	0.8	0.033	3.23	27.2	14.7	0.65	587	1.46	1.63	7.4	2.3	600
W594967		6.14	15.25	0.12	1.0	0.621	3.01	23.8	42.9	0.74	1960	8.60	0.07	6.5	15.9	520
W594968		2.78	18.70	0.15	0.8	0.030	3.18	29.1	36.3	0.61	684	1.95	0.18	8.6	2.1	610
W594969		2.84	17.40	0.14	0.8	0.034	3.27	24.8	20.1	0.73	615	1.93	1.45	8.8	2.2	600
W594970		2.74	17.25	0.15	0.7	0.038	3.73	24.1	28.4	0.76	753	2.70	0.16	7.7	2.2	580
W594971		3.37	16.45	0.13	0.7	0.088	3.75	27.5	26.3	0.60	936	1.36	0.09	7.3	1.9	560
W594972		2.59	16.60	0.13	0.8	0.021	3.01	24.3	48.7	0.64	558	2.77	0.12	4.5	2.5	580
W594973		3.30	16.65	0.14	0.9	0.022	3.67	24.5	37.1	0.81	1160	8.19	0.09	3.5	3.2	620
W594974		3.38	16.50	0.14	0.9	0.023	3.75	29.8	37.7	0.85	1180	8.19	0.09	3.9	3.2	630
W594975		3.17	16.75	0.12	0.8	0.111	3.29	23.6	25.5	0.83	1080	6.43	0.08	6.9	2.2	560
W594976		2.75	16.65	0.14	0.8	0.022	3.10	27.7	14.9	0.63	458	2.23	1.74	8.2	2.3	560
W594977		2.68	16.70	0.14	0.8	0.024	2.94	25.3	17.1	0.72	517	2.68	2.38	8.4	2.1	560
W594978		3.92	16.15	0.13	0.7	0.466	3.19	20.8	18.7	0.65	1010	3.62	0.92	8.1	2.0	560
W594979		2.88	15.80	0.13	0.8	0.037	3.02	26.8	28.1	0.64	611	2.73	1.29	8.6	2.0	570
W594980		2.98	17.15	0.12	0.8	0.044	3.19	19.3	39.1	0.61	810	2.87	0.48	8.8	2.3	580
W594981		11.95	11.00	0.13	0.7	4.28	1.99	16.0	31.2	0.55	1900	16.60	0.16	4.1	14.8	380
W594982		2.77	15.30	0.10	0.8	0.033	3.08	19.5	19.8	0.66	697	3.55	1.62	8.3	2.1	580
W594983		2.65	15.15	0.13	0.8	0.040	3.26	23.4	34.4	0.66	612	5.73	0.60	7.9	2.3	560
W594984		3.08	14.45	0.11	0.7	0.046	3.36	20.6	39.8	0.71	605	3.33	0.40	4.2	2.3	530
W594985		2.70	13.75	0.11	0.7	0.109	2.55	19.9	48.1	0.64	573	4.21	0.10	6.1	1.5	570
W594986		3.90	15.25	0.15	0.8	0.144	3.42	33.6	45.7	0.71	905	6.01	0.05	3.9	2.4	520
W594987		0.10	0.57	0.06	0.1	0.005	0.07	1.4	1.2	1.46	102	0.06	0.08	0.2	0.4	70
W594988		3.00	13.40	0.13	0.8	0.064	3.16	28.1	19.2	0.68	893	7.67	0.03	3.3	2.1	490
W594989		1.97	12.75	0.10	0.7	0.028	2.15	24.6	71.1	0.45	587	3.63	0.03	6.0	2.1	440
W594990		3.58	12.80	0.12	0.5	1.130	2.84	28.5	28.0	0.57	1240	4.57	0.02	4.9	2.0	410
W594991		3.00	15.25	0.13	0.8	0.128	3.15	30.7	40.2	0.71	1020	2.32	0.03	7.8	2.5	540
W594992		2.78	16.10	0.11	0.9	0.040	2.61	20.0	151.5	0.67	1010	2.10	0.05	8.2	2.1	560
W594993		2.77	14.80	0.13	0.9	0.033	2.56	24.9	135.5	0.72	955	1.74	0.06	8.0	2.1	560
W594994		2.77	15.15	0.12	0.9	0.046	2.93	22.4	45.3	0.60	668	3.91	0.12	7.8	2.1	550
W594995		2.95	15.95	0.14	1.0	0.041	3.08	24.9	30.3	0.67	569	4.10	1.14	8.4	2.1	570
W594996		2.84	15.55	0.13	1.0	0.039	3.11	20.4	58.3	0.66	660	7.31	0.82	8.4	2.2	560
W594997		2.84	14.60	0.13	0.8	0.063	2.53	23.5	49.3	0.68	903	2.12	0.13	7.5	2.4	500
W594998		2.71	14.15	0.11	0.8	0.038	3.10	18.8	29.7	0.59	591	4.46	1.37	7.7	1.9	560
W594999		2.83	16.55	0.13	0.9	0.036	3.00	22.1	20.3	0.63	557	7.02	1.55	8.6	2.4	590
W595000		3.08	15.05	0.15	0.9	0.050	3.10	28.9	14.3	0.74	593	13.40	1.67	7.4	2.3	560

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W594961		90.1	191.0	0.002	3.64	6.67	9.2	1	3.7	143.5	0.38	0.20	13.90	0.166	2.43	4.7
W594962		15.8	118.5	<0.002	0.66	12.90	10.0	1	2.0	141.5	0.63	0.10	14.50	0.236	1.69	2.5
W594963		1925	184.5	0.002	1.16	16.30	9.9	1	3.6	131.0	0.49	0.06	13.35	0.202	2.23	4.4
W594964		20.7	133.5	<0.002	0.68	34.7	10.0	1	1.8	163.5	0.59	0.07	13.85	0.219	1.87	3.2
W594965		20.9	137.0	<0.002	0.52	15.75	10.8	<1	2.6	183.0	0.64	0.05	14.45	0.234	1.74	2.4
W594966		23.0	128.0	<0.002	1.20	4.45	10.3	1	2.1	428	0.59	0.16	14.30	0.235	1.50	3.2
W594967		1805	166.0	0.002	3.50	48.9	9.2	1	6.1	81.4	0.52	0.24	11.55	0.211	2.49	4.2
W594968		19.8	121.0	<0.002	0.75	23.1	10.8	1	2.2	132.5	0.68	0.06	15.85	0.256	1.58	2.3
W594969		21.5	124.5	<0.002	0.76	4.08	10.6	1	2.1	362	0.68	0.06	13.80	0.250	1.69	2.8
W594970		25.7	148.5	0.003	1.03	13.00	9.6	1	2.1	170.5	0.61	0.11	12.95	0.225	2.39	2.4
W594971		216	165.5	<0.002	2.36	24.8	10.2	1	3.3	154.5	0.57	0.10	13.75	0.222	2.42	3.6
W594972		13.4	108.5	0.003	1.19	29.1	9.2	1	1.4	129.5	0.40	0.08	13.65	0.165	1.52	1.4
W594973		191.0	166.5	0.008	1.85	24.6	9.2	1	2.3	169.0	0.32	0.08	12.65	0.135	2.43	2.3
W594974		193.0	194.5	0.009	1.87	25.8	9.9	1	2.4	176.0	0.35	0.07	14.50	0.145	2.53	2.5
W594975		451	146.0	0.006	2.00	23.4	9.5	1	3.0	98.5	0.58	0.06	12.45	0.204	2.29	3.9
W594976		20.5	119.0	0.004	0.90	5.82	10.3	1	1.9	387	0.65	<0.05	14.35	0.232	1.36	3.5
W594977		21.5	118.5	0.003	0.61	1.06	10.0	1	2.0	550	0.68	0.06	13.40	0.241	1.31	3.5
W594978		1185	154.0	0.007	2.56	6.26	10.1	1	4.0	261	0.63	<0.05	11.85	0.233	1.98	3.6
W594979		152.0	116.5	0.007	0.50	8.47	11.4	1	2.1	265	0.68	<0.05	14.45	0.258	1.39	4.1
W594980		58.9	99.9	0.025	0.47	19.80	10.3	<1	2.2	156.0	0.73	<0.05	12.50	0.246	1.56	3.0
W594981		9220	113.0	0.002	>10.0	238	6.7	2	10.2	94.5	0.34	2.17	7.82	0.149	1.84	4.5
W594982		30.0	105.5	<0.002	0.63	9.50	10.1	<1	2.1	404	0.65	<0.05	11.25	0.245	1.56	3.4
W594983		69.7	110.5	<0.002	0.75	10.10	10.5	1	2.9	259	0.64	0.07	13.80	0.240	1.63	4.3
W594984		86.2	121.5	<0.002	1.62	28.4	8.7	1	2.1	154.0	0.37	0.08	12.15	0.149	1.92	2.6
W594985		190.5	74.5	<0.002	0.75	27.0	8.8	<1	2.2	131.0	0.51	<0.05	11.95	0.218	1.29	2.2
W594986		601	187.5	<0.002	3.22	24.0	8.9	<1	5.8	150.0	0.34	0.08	13.15	0.133	2.41	3.3
W594987		1.9	2.4	<0.002	<0.01	0.18	0.2	1	<0.2	83.2	<0.05	<0.05	0.20	0.006	0.04	0.2
W594988		100.0	168.5	<0.002	2.42	21.0	7.2	1	4.1	163.0	0.37	0.09	15.95	0.107	2.27	4.2
W594989		35.4	108.0	<0.002	0.84	42.8	8.2	<1	2.0	185.0	0.49	<0.05	12.40	0.191	1.88	7.0
W594990		1180	198.0	0.005	3.07	67.6	8.5	1	3.3	60.1	0.42	0.09	12.35	0.167	2.63	5.7
W594991		423	174.5	0.002	1.20	30.2	10.6	<1	2.1	118.0	0.61	<0.05	14.05	0.229	3.11	5.4
W594992		17.1	92.3	<0.002	0.45	19.25	9.8	<1	1.7	160.5	0.68	<0.05	12.00	0.238	2.05	3.6
W594993		15.3	104.5	<0.002	0.40	16.90	10.0	<1	1.7	164.5	0.64	<0.05	14.15	0.238	1.89	4.2
W594994		10.5	104.5	<0.002	0.35	19.35	9.9	<1	1.7	137.5	0.65	<0.05	13.25	0.232	1.67	3.4
W594995		14.1	116.5	<0.002	0.27	10.10	10.8	<1	1.7	247	0.68	<0.05	14.80	0.244	1.44	3.6
W594996		68.1	101.0	<0.002	0.30	7.71	9.7	<1	1.7	197.5	0.71	<0.05	12.65	0.238	1.52	3.3
W594997		8450	97.1	<0.002	0.99	53.2	9.2	<1	2.6	121.0	0.61	0.05	13.15	0.215	1.64	2.6
W594998		18.3	96.4	<0.002	0.18	7.39	8.9	<1	1.5	263	0.63	<0.05	11.15	0.242	1.27	3.3
W594999		87.0	103.5	<0.002	0.51	4.41	10.5	<1	1.9	301	0.66	<0.05	12.65	0.251	1.46	3.9
W595000		636	138.5	<0.002	1.05	4.14	10.7	1	2.0	350	0.62	<0.05	14.15	0.225	1.75	4.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215147

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W594961		56	3.0	12.6	235	27.6	0.105
W594962		63	2.4	13.6	64	27.1	<0.005
W594963		59	2.1	12.9	1900	23.0	0.059
W594964		64	2.3	13.4	78	28.6	0.006
W594965		67	2.1	15.7	60	24.9	0.015
W594966		65	1.9	14.9	61	25.3	0.011
W594967		64	5.7	11.5	2840	28.7	0.598
W594968		66	3.1	15.3	72	24.3	0.008
W594969		65	1.7	14.0	70	24.9	0.008
W594970		61	1.9	13.2	74	24.4	0.013
W594971		62	3.9	13.1	192	24.2	0.157
W594972		60	3.6	13.8	63	24.5	<0.005
W594973		57	2.0	13.6	156	26.1	0.039
W594974		58	2.4	14.4	161	28.5	0.032
W594975		59	2.8	13.4	553	24.2	0.128
W594976		62	1.4	15.7	55	24.5	0.005
W594977		62	1.7	15.8	60	24.6	<0.005
W594978		64	2.2	13.8	1760	23.2	0.150
W594979		70	2.0	16.6	129	23.8	0.007
W594980		67	4.9	14.5	155	23.3	0.006
W594981		49	4.2	9.7	>10000	23.2	2.88
W594982		66	1.6	14.1	85	25.4	0.006
W594983		64	1.7	15.4	152	24.8	0.012
W594984		54	2.3	12.4	105	23.0	0.010
W594985		63	6.0	12.5	501	22.4	0.018
W594986		51	3.1	13.1	608	25.0	0.113
W594987		2	0.1	2.5	7	2.6	<0.005
W594988		50	2.4	12.4	203	25.0	0.018
W594989		55	5.2	12.1	47	20.8	0.006
W594990		54	3.4	9.9	3350	17.2	0.098
W594991		63	2.5	14.0	648	24.8	0.033
W594992		64	3.1	13.9	78	28.2	0.010
W594993		63	2.7	15.7	78	28.5	0.007
W594994		63	3.9	14.6	61	27.4	<0.005
W594995		66	4.7	16.5	51	30.2	<0.005
W594996		64	3.8	15.0	103	29.3	<0.005
W594997		60	5.3	14.4	682	24.7	0.140
W594998		64	2.7	14.1	60	26.1	<0.005
W594999		67	3.0	15.9	55	28.4	<0.005
W595000		62	4.7	16.7	537	28.8	0.014

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215147

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215149

Project: Klaza

P.O. No.: Batch 30

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 29-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215149

Sample Description	Method	WEI-21	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W595501		1.90			1.93	7.54	27.6	1160	1.49	0.41	2.69	36.2	48.5	9.0	10	9.03
W595502		2.10			11.65	7.52	212	1330	1.65	0.32	2.38	61.8	53.4	7.1	10	13.15
W595503		1.98			8.44	7.38	1580	500	1.54	0.45	1.95	61.3	63.9	7.7	12	12.85
W595504		0.73			16.05	7.22	1490	630	1.48	0.74	2.01	62.1	61.5	6.8	10	11.95
W595505		3.34			0.83	7.12	63.9	1370	1.46	0.31	2.29	2.93	49.0	7.4	7	23.2
W595506		1.98			2.53	7.21	303	470	1.36	0.59	2.25	2.20	53.2	19.8	9	13.20
W595507		1.98			5.97	7.43	1610	820	1.24	0.58	1.31	24.2	78.0	10.5	8	16.30
W595508		4.92			0.11	8.25	11.1	2120	1.08	0.21	1.28	0.23	57.6	6.8	10	18.20
W595509		3.66			0.12	8.11	9.5	2220	1.03	0.22	1.11	0.26	59.2	6.2	9	12.95
W595510		1.53			1.98	7.29	22.1	280	1.42	0.68	2.34	4.91	49.2	13.8	9	12.55
W595511		0.26			10.35	6.68	2010	210	1.41	5.91	1.77	39.5	49.2	12.7	29	16.85
W595512		4.49			0.54	7.17	13.1	990	1.15	0.51	1.35	1.96	46.7	11.3	7	10.40
W595513		4.29			0.13	7.15	8.1	750	1.06	0.32	1.61	0.37	43.7	6.8	9	11.30
W595514		2.92			0.34	7.02	15.8	1970	1.01	0.39	2.03	0.40	43.7	7.7	7	9.38
W595515		3.34			9.81	6.90	29.3	2820	1.37	0.23	2.23	1.01	42.1	6.0	9	17.30
W595516		4.42			0.31	7.93	35.8	2380	1.59	0.23	2.40	0.69	44.0	7.5	9	20.2
W595517		3.29			0.10	7.54	9.9	2730	1.56	0.28	2.74	0.16	38.9	7.4	10	18.10
W595518		0.26		1.535	97.9	4.88	4180	160	1.05	50.7	1.60	206	32.1	62.2	36	10.05
W595519		3.89			0.30	7.58	14.5	2990	1.68	0.27	2.97	1.49	45.2	7.3	9	14.05
W595520		2.32			0.12	7.35	7.6	3670	1.62	0.37	2.53	0.13	41.4	7.6	9	13.40
W595521		1.46	1.090		50.2	6.95	23.9	1150	1.50	0.69	3.85	51.6	47.7	7.7	8	13.70
W595522		4.49			0.22	7.17	15.4	2110	1.67	0.47	2.87	0.26	43.9	10.2	10	18.10
W595523		3.50			4.00	6.97	318	340	1.43	1.74	2.06	2.85	48.4	17.1	7	16.25
W595524		3.30			0.09	8.47	8.0	2870	1.21	0.27	1.40	0.13	56.2	6.2	10	14.30
W595525		2.75			0.06	8.12	9.6	1660	1.18	0.24	0.92	0.14	55.9	5.4	8	17.75
W595526		1.50			0.11	7.49	8.3	2370	1.16	0.31	2.08	0.23	47.7	7.1	9	11.40
W595527		<0.02			0.12	7.65	8.2	2630	1.16	0.33	2.13	0.25	48.3	6.8	8	11.70
W595528		2.98			0.28	7.84	13.8	480	1.33	0.50	1.88	1.29	47.4	10.2	10	19.10
W595529		4.23			0.12	7.79	8.6	4790	1.72	0.35	2.74	0.23	49.2	5.3	9	13.85
W595530		3.23			0.54	7.37	50.3	1050	1.61	0.63	2.59	0.79	43.7	5.9	11	15.90
W595531		3.33			0.20	7.73	12.6	670	1.50	0.60	2.25	0.25	43.0	9.2	11	13.35
W595532		3.24			2.15	6.87	157.0	770	1.52	0.99	2.33	4.32	42.2	5.8	10	13.60
W595533		4.02			0.82	7.54	80.9	920	1.52	0.54	2.52	1.66	53.1	7.6	10	13.35
W595534		3.90			0.65	7.39	56.7	740	1.49	0.96	1.90	0.22	51.0	7.2	9	11.30
W595535		5.00			0.02	0.22	0.6	30	0.11	0.02	33.1	0.02	1.14	0.6	2	0.08
W595536		4.11			0.10	8.38	9.8	2410	0.98	0.30	1.86	0.19	45.7	5.9	10	14.45
W595537		1.88			0.19	7.93	13.4	2900	0.96	0.51	1.40	0.35	47.5	6.3	8	7.46
W595538		4.10			0.11	8.25	11.0	1560	0.98	0.28	1.35	0.36	51.0	6.8	9	13.45
W595539		2.26			2.40	7.08	226	230	1.24	1.27	1.26	26.2	50.8	6.7	7	12.25
W595540		5.08			0.13	8.01	11.2	2380	1.07	0.17	1.52	0.21	47.1	5.9	9	14.70

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W595501		24.9	3.40	15.15	0.14	0.8	0.131	3.27	24.6	9.9	0.72	563	5.18	1.62	7.9	2.5
W595502		116.5	4.00	16.00	0.14	0.7	0.214	3.66	28.0	10.4	0.74	1360	16.85	0.45	8.0	2.9
W595503		90.4	5.06	15.45	0.14	0.7	0.398	3.59	34.2	11.1	0.80	1570	27.4	0.04	7.5	2.5
W595504		145.0	4.93	15.05	0.14	0.7	0.589	3.53	33.1	10.6	0.78	1630	35.3	0.03	7.3	2.7
W595505		11.1	2.83	16.65	0.14	0.8	0.099	3.10	24.0	127.5	0.68	770	6.29	0.06	8.5	2.5
W595506		13.4	4.04	15.25	0.13	0.7	0.065	3.39	29.3	13.1	0.81	3590	3.61	0.02	6.0	3.4
W595507		50.5	3.73	15.45	0.15	0.8	0.227	2.67	42.2	76.3	0.48	871	2.02	0.06	7.8	2.7
W595508		6.0	3.36	16.95	0.13	0.8	0.042	2.74	30.4	37.5	0.54	634	3.54	0.12	9.1	2.8
W595509		9.3	2.88	16.45	0.14	0.9	0.035	2.05	31.3	41.4	0.44	559	13.85	0.07	8.3	2.3
W595510		42.9	4.10	16.05	0.14	0.9	0.042	2.58	25.3	39.7	0.87	851	6.92	0.05	4.0	3.9
W595511		195.0	6.15	14.80	0.12	1.1	0.690	2.97	25.4	43.2	0.75	2060	8.87	0.07	6.7	17.0
W595512		37.1	2.67	14.30	0.10	0.8	0.029	1.37	23.8	61.0	0.51	481	2.72	0.03	4.0	2.9
W595513		7.8	2.81	15.15	0.11	0.8	0.036	1.39	21.8	57.4	0.58	634	2.02	0.03	7.3	2.8
W595514		11.3	2.81	14.05	0.11	0.8	0.025	1.75	22.0	51.1	0.64	643	1.28	0.05	6.5	2.4
W595515		53.5	2.92	15.85	0.13	0.8	0.029	2.45	21.9	110.0	0.70	1000	1.09	0.06	7.7	3.3
W595516		6.8	3.29	17.80	0.14	0.7	0.046	2.91	21.6	52.9	0.74	1030	2.60	1.08	8.6	2.7
W595517		4.2	3.42	16.95	0.13	0.6	0.057	2.63	19.0	23.3	0.74	627	11.45	1.38	8.3	3.0
W595518		1270	11.90	11.85	0.13	0.8	4.26	2.02	15.7	33.0	0.55	1940	18.35	0.16	4.3	14.9
W595519		8.2	3.32	17.95	0.14	0.7	0.064	2.52	22.9	12.5	0.80	611	3.11	1.99	8.7	2.6
W595520		6.8	3.10	16.45	0.14	0.7	0.030	2.60	21.3	13.5	0.66	455	1.53	1.85	7.8	2.8
W595521		181.5	2.88	15.60	0.12	0.7	0.430	2.77	25.1	66.7	0.53	726	1.07	0.85	7.8	2.0
W595522		11.7	2.97	17.10	0.14	0.7	0.039	2.37	22.6	110.0	0.74	688	0.74	0.78	7.9	2.6
W595523		51.4	4.11	14.90	0.15	0.6	0.167	3.17	26.2	21.4	0.76	1440	1.60	0.04	5.6	2.5
W595524		5.5	3.12	18.20	0.13	0.8	0.037	2.71	30.2	36.6	0.56	458	1.17	0.42	9.1	2.6
W595525		4.1	2.53	17.25	0.13	0.7	0.039	1.35	30.4	55.9	0.36	428	0.60	0.11	8.5	2.1
W595526		6.1	3.29	16.25	0.12	0.7	0.030	1.40	24.6	48.5	0.75	660	1.10	0.03	7.4	2.7
W595527		6.1	3.22	16.25	0.12	0.7	0.030	1.45	25.7	48.5	0.77	649	1.02	0.03	7.2	2.7
W595528		12.0	3.20	16.65	0.12	0.7	0.028	2.53	25.0	89.5	0.61	631	1.70	0.31	6.0	2.9
W595529		6.1	2.84	17.15	0.14	0.7	0.045	2.30	25.7	15.5	0.73	502	1.10	2.12	8.3	2.2
W595530		22.1	3.61	17.40	0.15	0.7	0.071	2.90	22.2	46.4	0.72	966	4.83	1.25	8.2	2.9
W595531		17.3	3.43	17.00	0.14	0.6	0.039	2.57	21.4	16.6	0.72	545	1.55	1.67	7.1	3.2
W595532		61.1	4.51	16.50	0.14	0.5	0.168	2.99	21.5	57.9	0.80	1440	1.79	0.05	6.4	2.7
W595533		12.9	3.70	15.80	0.16	0.6	0.073	2.82	29.3	79.1	0.85	1200	1.37	0.05	7.1	2.8
W595534		15.2	4.50	16.55	0.14	0.6	0.093	2.74	27.5	26.2	0.78	1340	1.22	0.39	7.4	2.8
W595535		1.4	0.17	0.70	0.07	0.1	0.005	0.10	1.2	1.0	1.45	104	0.07	0.10	0.4	0.3
W595536		5.4	3.34	18.80	0.13	0.7	0.048	2.22	22.6	29.6	0.63	682	5.06	0.32	9.0	2.6
W595537		16.7	2.86	17.20	0.12	0.6	0.050	1.48	24.6	42.9	0.50	639	1.26	0.05	7.9	2.7
W595538		6.3	3.30	18.35	0.13	0.7	0.050	1.82	27.1	38.7	0.52	735	0.96	0.05	8.5	2.8
W595539		82.3	4.09	16.40	0.13	0.8	0.410	2.97	27.0	37.4	0.47	1020	4.71	0.07	7.3	2.4
W595540		22.8	3.17	16.80	0.13	0.8	0.046	2.67	24.6	34.7	0.58	670	1.68	0.26	8.0	2.5

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 29-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W595501		590	290	141.5	<0.002	1.18	4.41	11.1	1	2.3	433	0.62	0.05	13.05	0.246	1.88
W595502		580	2770	191.5	0.003	1.42	20.9	11.3	<1	4.5	177.5	0.59	<0.05	14.20	0.245	2.81
W595503		580	2220	223	0.003	3.16	20.4	11.8	<1	5.3	64.4	0.56	<0.05	14.15	0.241	3.14
W595504		560	3360	218	0.002	2.87	31.8	10.0	<1	4.8	65.2	0.56	<0.05	14.85	0.225	3.05
W595505		610	195.5	128.5	<0.002	0.64	12.30	11.2	<1	2.8	150.5	0.65	<0.05	12.85	0.252	2.97
W595506		530	185.0	207	<0.002	2.89	13.55	10.2	1	3.5	70.3	0.49	0.13	13.55	0.218	3.21
W595507		570	1870	135.5	<0.002	2.13	32.4	10.9	<1	3.7	105.5	0.62	0.07	15.85	0.237	1.95
W595508		650	15.9	106.0	<0.002	0.20	26.2	12.4	<1	1.9	123.5	0.69	<0.05	15.40	0.274	1.31
W595509		640	13.1	86.7	<0.002	0.29	24.7	11.2	<1	1.9	111.5	0.65	<0.05	16.05	0.258	1.09
W595510		580	942	130.5	<0.002	2.60	19.45	10.5	1	2.1	114.0	0.34	0.16	13.15	0.153	1.87
W595511		510	1780	167.5	<0.002	3.50	51.3	10.4	1	6.2	82.6	0.54	0.27	12.25	0.216	2.59
W595512		560	144.0	61.2	<0.002	1.57	43.9	10.0	1	1.5	94.8	0.34	0.15	13.40	0.160	1.01
W595513		540	8.4	56.5	<0.002	0.71	31.5	9.7	<1	2.0	119.5	0.59	0.10	12.60	0.216	1.09
W595514		530	23.6	60.4	<0.002	1.03	22.1	9.3	<1	1.9	133.0	0.54	0.09	13.25	0.204	1.13
W595515		550	2720	97.6	<0.002	0.68	30.2	9.0	<1	2.0	179.0	0.61	0.05	13.60	0.223	2.07
W595516		690	49.5	118.0	<0.002	0.36	8.74	12.0	<1	1.9	292	0.58	<0.05	10.40	0.291	1.82
W595517		630	18.0	98.9	<0.002	0.39	6.02	10.9	<1	1.9	316	0.55	<0.05	9.72	0.271	1.39
W595518		390	9310	118.0	<0.002	>10.0	250	7.4	2	10.5	92.7	0.35	2.03	7.83	0.154	1.82
W595519		630	106.5	103.5	<0.002	0.37	3.38	11.7	<1	2.1	406	0.61	<0.05	12.70	0.274	1.33
W595520		560	16.7	101.0	<0.002	0.81	2.57	10.0	1	1.9	421	0.63	0.08	14.05	0.237	1.35
W595521		540	>10000	121.0	<0.002	1.44	49.5	9.5	1	2.4	302	0.65	0.09	14.10	0.227	1.89
W595522		550	26.2	112.0	<0.002	1.11	8.22	10.1	1	2.8	256	0.61	0.09	12.90	0.230	1.85
W595523		500	419	200	<0.002	3.24	22.7	9.5	1	5.2	67.9	0.46	0.21	13.25	0.193	2.77
W595524		620	16.5	112.0	<0.002	0.56	11.30	12.2	<1	2.5	142.0	0.69	0.06	15.85	0.274	1.39
W595525		660	12.4	69.9	<0.002	0.37	31.4	11.5	1	2.3	95.3	0.60	<0.05	13.65	0.273	0.89
W595526		580	10.2	69.1	<0.002	0.97	21.6	10.9	1	2.3	109.0	0.53	0.06	12.30	0.246	1.15
W595527		600	10.4	74.9	<0.002	1.02	21.4	10.7	1	2.2	112.0	0.53	0.07	12.45	0.249	1.16
W595528		570	49.6	113.5	<0.002	1.66	15.40	10.0	1	1.8	199.5	0.47	0.13	13.10	0.216	2.02
W595529		610	19.2	105.0	<0.002	0.64	2.79	11.2	1	4.2	452	0.61	0.07	12.90	0.258	1.42
W595530		570	31.4	135.0	<0.002	1.40	6.79	10.7	1	2.5	452	0.57	0.09	10.45	0.247	1.84
W595531		660	32.2	122.0	0.002	1.77	6.15	11.7	1	1.9	428	0.45	0.21	9.09	0.254	1.51
W595532		580	239	182.5	0.002	2.72	16.40	10.4	<1	3.9	109.5	0.41	0.09	9.46	0.224	2.57
W595533		590	167.5	180.0	0.002	2.06	13.05	11.0	1	2.7	129.0	0.50	0.12	12.15	0.241	2.40
W595534		560	74.6	172.5	0.002	2.07	9.76	10.3	<1	2.5	119.0	0.54	0.11	12.90	0.230	2.26
W595535		70	3.7	3.4	<0.002	0.01	0.10	0.2	1	<0.2	83.2	0.05	<0.05	0.13	0.005	0.05
W595536		670	14.0	84.8	<0.002	0.43	16.00	11.1	<1	2.2	151.5	0.66	0.05	12.90	0.285	1.24
W595537		600	9.4	73.6	<0.002	0.88	34.2	10.1	<1	1.9	108.5	0.61	0.09	13.50	0.248	1.03
W595538		640	11.1	87.4	<0.002	0.45	22.5	11.0	<1	1.8	111.5	0.64	0.07	15.10	0.271	1.09
W595539		490	358	166.0	<0.002	2.70	34.4	9.8	<1	3.2	101.5	0.56	0.05	13.45	0.209	2.05
W595540		600	12.8	104.5	<0.002	0.33	22.9	10.5	<1	1.7	148.5	0.61	<0.05	13.60	0.256	1.28

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Project: Klaza

Finalized Date: 29-NOV-2020
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CERTIFICATE OF ANALYSIS WH20215149

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W595501		3.9	67	3.4	15.5	2170	25.8	0.029
W595502		4.5	66	9.0	16.1	3610	22.5	0.200
W595503		4.6	69	7.9	13.8	3920	23.0	0.205
W595504		4.6	62	7.4	13.8	3760	20.8	0.292
W595505		4.4	71	3.5	15.4	229	23.9	0.076
W595506		6.1	63	4.5	13.7	166	20.2	0.387
W595507		4.6	65	8.4	15.5	1690	23.2	0.880
W595508		2.6	73	5.4	17.9	63	23.6	<0.005
W595509		2.1	68	10.3	17.7	68	28.3	<0.005
W595510		3.5	61	4.4	15.5	301	27.9	0.036
W595511		4.4	64	5.8	12.5	2880	30.4	0.640
W595512		2.8	60	4.7	14.0	122	27.6	0.017
W595513		2.3	58	6.7	13.7	64	27.7	0.006
W595514		2.5	56	6.6	13.6	66	28.1	0.018
W595515		4.3	64	3.5	14.2	77	25.6	0.024
W595516		4.1	77	6.4	15.9	87	21.4	0.005
W595517		3.6	72	5.1	15.2	52	19.8	<0.005
W595518		4.4	51	4.3	9.9	>10000	23.2	2.90
W595519		3.8	73	3.2	16.5	131	20.8	0.008
W595520		4.0	63	2.3	14.0	44	22.1	<0.005
W595521		4.5	60	2.8	16.0	2900	26.0	0.060
W595522		4.1	63	1.7	14.3	51	21.8	0.007
W595523		4.4	59	3.0	12.6	206	18.6	0.128
W595524		4.7	75	2.5	17.4	43	24.0	<0.005
W595525		2.3	63	6.1	15.9	45	22.7	<0.005
W595526		1.9	67	3.9	15.0	61	21.6	0.008
W595527		1.9	69	3.8	15.3	62	22.8	0.007
W595528		3.2	61	4.7	13.4	110	22.3	0.012
W595529		3.2	69	1.6	15.7	61	22.0	0.005
W595530		3.5	66	2.2	14.9	104	22.0	0.072
W595531		2.9	72	2.0	15.4	64	23.2	0.015
W595532		3.4	65	4.7	12.5	316	17.0	0.093
W595533		3.5	67	3.2	14.7	148	20.6	0.032
W595534		4.0	64	5.1	14.2	59	20.0	0.054
W595535		0.2	1	0.1	2.5	3	2.7	<0.005
W595536		3.0	76	14.6	16.4	59	24.6	0.007
W595537		4.1	64	4.6	15.7	73	21.0	0.007
W595538		2.8	72	5.9	16.3	88	24.2	<0.005
W595539		4.2	57	7.5	13.8	1810	23.0	0.141
W595540		3.0	68	5.0	15.8	57	25.1	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215149

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE WH20215150

Project: Klaza

P.O. No.: Batch 31

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 25-SEP-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215150

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W595541		5.42		0.15	8.14	13.0	1870	1.16	0.39	1.77	0.44	51.1	7.4	8	13.35	15.2
W595542		5.30		0.08	7.59	7.0	2340	1.23	0.20	2.23	0.15	42.6	7.2	7	12.55	9.9
W595543		5.51		0.12	7.66	16.3	1920	1.06	0.21	1.54	0.23	47.9	7.1	7	14.60	25.8
W595544		5.74		0.81	6.57	43.2	1960	1.33	0.40	1.85	1.19	43.9	12.7	9	15.70	20.4
W595545		3.25		0.07	7.42	7.8	950	0.98	0.14	1.45	0.36	45.6	4.8	7	9.67	12.0
W595546		3.62		0.48	7.06	28.1	2640	1.22	0.53	2.14	0.46	42.5	6.1	7	11.05	14.0
W595547		0.26	1.580	93.6	4.68	4030	860	1.00	50.4	1.55	199.0	34.1	61.2	34	9.96	1190
W595548		4.49		0.84	7.15	35.9	1100	1.29	0.39	2.07	0.76	42.2	8.1	7	16.45	31.1
W595549		3.08		0.13	8.10	10.6	1950	1.05	0.21	1.28	0.35	53.4	6.6	6	13.10	27.1
W595550		2.36		0.84	7.41	13.6	1400	1.05	0.16	1.46	3.71	46.4	5.6	6	13.10	12.9
W595551		1.54		2.66	6.82	109.0	860	1.34	5.02	1.83	1.72	45.5	6.3	7	16.15	30.1
W595552		3.30		0.10	7.45	9.9	2220	1.12	0.22	1.60	0.18	50.2	6.6	6	11.75	11.6
W595553		3.19		2.27	7.12	33.7	1510	1.51	0.83	2.08	2.56	60.0	7.3	6	13.35	28.6
W595554		<0.02		1.99	7.03	30.7	1530	1.31	0.73	2.07	2.49	53.9	7.0	6	12.30	26.0
W595555		4.60		0.38	7.39	21.1	1750	1.18	0.22	1.58	0.35	53.3	6.5	6	13.60	31.2
W595556		4.40		0.15	7.81	12.4	2020	1.24	0.24	1.82	0.16	54.2	6.9	6	13.50	23.9
W595557		2.65		0.31	7.28	22.5	710	1.12	0.32	1.55	1.08	51.4	7.6	8	13.25	23.2
W595558		2.93		0.83	6.93	98.7	840	1.43	0.34	1.79	0.80	52.6	8.5	12	16.90	62.1
W595559		1.74		1.96	7.63	128.5	160	1.45	0.96	1.92	3.25	50.8	8.4	6	14.90	67.2
W595560		1.70		51.0	7.10	420	80	1.35	65.0	1.35	9.86	56.4	10.4	6	12.85	506
W595561		0.79		51.4	7.63	385	60	1.47	75.1	1.95	7.45	57.3	10.1	5	13.30	325
W595562		4.32		0.63	7.33	40.0	820	1.39	1.00	1.58	0.62	49.9	8.1	6	19.20	36.0
W595563		4.85		0.26	7.53	51.1	3000	1.43	0.35	1.92	0.43	51.3	5.6	6	14.60	27.8
W595564		1.87		11.80	5.82	216	130	1.32	0.37	1.12	3.20	40.0	7.5	14	17.50	272
W595565		4.16		0.52	7.10	205	1670	1.18	0.28	1.94	0.85	51.2	6.0	6	18.85	55.0
W595566		2.99		0.66	7.15	52.2	1870	1.66	0.34	2.41	1.03	53.6	7.5	6	17.30	182.0
W595567		3.71		0.35	7.34	33.6	1330	1.60	0.21	2.53	0.65	59.6	4.7	7	18.35	16.6
W595568		2.19		1.18	6.70	51.5	130	1.42	0.79	1.44	5.46	38.1	10.1	6	13.75	15.9
W595569		1.98		2.97	5.12	403	140	1.09	1.77	1.33	93.8	35.9	18.7	6	8.55	38.3
W595570		4.90		0.03	0.08	0.5	30	0.08	0.03	34.5	0.09	1.00	0.4	1	0.06	1.2
W595571		3.26		1.53	6.67	131.0	700	1.23	0.35	1.71	5.46	49.9	6.5	7	16.25	26.2
W595572		3.99		2.39	6.46	93.1	1150	1.27	1.46	1.72	3.38	47.4	7.1	7	20.9	99.7
W595573		4.63		0.24	7.56	14.7	1330	1.71	0.18	3.64	0.23	63.9	9.6	20	23.3	16.3
W595574		3.34		0.36	6.99	21.2	1850	1.61	0.48	2.57	3.00	44.5	6.8	7	17.55	17.3
W595575		0.26		10.95	6.91	2050	220	1.53	6.45	1.78	39.1	49.0	12.7	30	18.55	201
W595576		3.94		0.41	6.84	17.6	2390	1.49	0.39	2.46	0.71	50.1	5.2	8	14.05	9.8
W595577		1.83		23.2	7.04	121.5	2580	1.54	0.95	2.68	13.65	44.2	6.4	8	17.75	51.5
W595578		5.28		0.43	7.13	21.7	3030	1.50	0.48	2.60	0.35	52.2	7.9	8	15.70	55.9
W595579		4.82		0.16	7.39	9.3	2260	1.63	0.23	2.48	0.16	53.2	6.7	9	18.05	42.2
W595580		4.55		0.14	7.19	7.2	2610	1.64	0.23	2.39	0.15	48.6	8.0	9	17.05	31.6

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215150

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W595541		2.95	17.25	0.12	0.8	0.049	2.42	26.6	48.8	0.63	513	1.42	0.61	8.1	2.4	630
W595542		2.95	17.05	0.12	0.8	0.045	2.83	21.2	32.1	0.70	543	3.42	0.95	8.3	2.2	610
W595543		2.64	17.15	0.13	0.8	0.044	2.71	25.0	42.9	0.56	596	2.68	0.18	8.5	2.1	570
W595544		2.60	15.50	0.12	0.8	0.068	2.15	23.5	122.5	0.58	1020	10.20	0.04	7.0	2.7	490
W595545		2.54	16.25	0.11	0.8	0.031	0.94	23.6	67.3	0.50	614	1.95	0.02	7.9	1.9	570
W595546		3.05	16.20	0.13	0.7	0.063	2.45	20.9	38.3	0.70	954	1.64	0.06	7.7	2.2	560
W595547		11.40	11.85	0.14	0.8	4.27	1.91	17.8	30.6	0.53	1880	17.20	0.15	4.5	16.1	370
W595548		2.94	16.90	0.11	0.7	0.034	2.59	20.7	56.9	0.66	1240	2.53	0.05	7.4	2.3	560
W595549		2.84	19.00	0.13	0.8	0.049	1.76	28.0	60.6	0.47	603	9.84	0.06	9.2	2.3	620
W595550		2.75	16.95	0.10	0.8	0.058	1.34	23.6	96.7	0.54	635	1.58	0.03	8.4	1.9	580
W595551		3.20	14.90	0.09	0.7	0.072	2.39	25.4	87.4	0.65	1550	1.78	0.05	7.1	2.3	520
W595552		2.61	16.95	0.10	0.9	0.039	2.90	25.9	35.5	0.56	582	2.08	0.13	8.4	1.9	540
W595553		3.52	16.65	0.12	0.8	0.107	2.75	32.7	116.5	0.80	1360	2.86	0.07	7.9	2.3	540
W595554		3.54	15.10	0.11	0.7	0.098	2.73	28.6	111.0	0.79	1340	2.18	0.07	7.3	2.0	550
W595555		2.67	16.65	0.10	0.9	0.053	2.32	28.9	59.3	0.59	852	1.77	0.07	8.4	2.1	570
W595556		2.83	17.20	0.10	0.9	0.046	2.82	28.7	32.1	0.65	653	4.23	0.27	8.9	2.1	610
W595557		2.32	15.25	0.08	0.8	0.048	1.73	27.5	58.1	0.56	785	3.75	0.05	8.3	2.3	600
W595558		2.55	15.30	0.10	0.8	0.063	2.91	28.7	51.5	0.66	2760	2.12	0.03	7.3	2.2	530
W595559		4.59	16.20	0.11	0.7	0.074	3.64	25.3	27.8	0.77	2780	3.54	0.03	4.0	2.6	510
W595560		6.77	14.65	0.11	0.7	0.586	3.39	28.9	48.4	0.65	1310	1.67	0.03	3.6	2.8	550
W595561		7.27	16.80	0.11	0.8	0.409	3.70	29.2	66.3	0.85	2080	3.18	0.03	3.6	2.5	540
W595562		2.79	16.35	0.11	0.8	0.103	2.95	27.8	75.6	0.61	886	1.40	0.04	6.0	2.2	460
W595563		2.63	16.40	0.10	0.8	0.046	2.31	27.4	56.5	0.63	1160	3.16	0.05	8.3	2.0	570
W595564		3.25	13.35	0.10	0.6	0.064	2.46	20.1	46.9	0.44	1960	4.61	0.02	6.2	3.1	440
W595565		2.48	14.65	0.09	0.6	0.054	2.92	28.3	114.0	0.69	1800	5.58	0.03	6.9	2.0	530
W595566		2.67	15.65	0.10	0.7	0.058	2.68	29.5	194.5	0.85	1100	7.28	0.04	6.9	2.1	520
W595567		2.61	15.55	0.12	0.7	0.033	2.58	33.4	368	0.91	1290	2.45	0.04	7.2	1.9	560
W595568		3.11	15.45	0.10	0.7	0.061	3.19	17.8	14.4	0.63	2840	1.79	0.03	4.1	2.5	540
W595569		5.03	11.75	0.09	0.5	0.295	2.49	19.8	28.2	0.54	2370	2.88	0.02	3.3	3.2	360
W595570		0.10	0.26	0.07	<0.1	<0.005	0.03	1.2	1.1	1.38	98	0.05	0.03	0.1	0.7	70
W595571		2.53	15.00	0.13	0.8	0.063	2.98	28.1	32.2	0.62	3610	7.43	0.03	6.8	2.2	460
W595572		2.28	15.15	0.11	1.0	0.076	2.68	25.8	45.7	0.62	2790	4.21	0.03	6.9	2.6	540
W595573		2.93	19.40	0.13	4.4	0.033	3.25	32.6	37.7	1.17	778	1.95	0.05	11.5	7.3	1300
W595574		2.94	16.15	0.12	0.8	0.044	3.60	22.5	64.4	0.70	905	2.36	0.80	7.1	2.2	550
W595575		6.16	16.55	0.10	1.2	0.721	3.00	26.4	42.3	0.77	2070	9.71	0.07	6.8	18.7	550
W595576		2.48	14.35	0.10	1.0	0.037	3.31	27.2	18.6	0.62	717	2.14	1.06	7.6	1.7	420
W595577		2.73	15.45	0.13	0.7	0.080	3.35	22.5	45.3	0.66	971	4.10	1.22	7.4	2.1	550
W595578		2.76	15.70	0.13	0.7	0.038	3.11	27.6	19.9	0.69	533	2.86	1.61	7.6	2.3	540
W595579		2.80	16.65	0.12	0.8	0.040	2.97	27.6	14.5	0.69	471	2.10	2.13	8.4	2.2	550
W595580		2.63	16.40	0.12	0.9	0.039	3.03	25.5	12.7	0.69	467	1.48	2.12	8.4	2.4	540

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Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215150

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W595541		19.3	102.0	<0.002	0.84	17.40	10.8	<1	2.1	174.5	0.64	0.08	14.25	0.257	1.19	3.1
W595542		16.7	102.0	<0.002	0.26	4.93	10.2	<1	2.1	243	0.63	<0.05	12.10	0.255	1.17	3.3
W595543		14.5	104.0	<0.002	0.26	19.70	10.3	<1	1.9	156.5	0.67	<0.05	13.65	0.249	1.26	2.6
W595544		124.5	106.0	0.002	1.04	31.3	9.0	<1	2.3	159.5	0.57	<0.05	13.65	0.205	1.92	3.7
W595545		6.3	40.1	<0.002	0.16	34.9	9.9	<1	1.9	121.5	0.61	<0.05	13.20	0.240	0.85	2.0
W595546		42.7	99.3	<0.002	1.04	11.85	9.5	1	2.6	139.5	0.61	0.05	11.85	0.227	1.91	2.7
W595547		8940	119.0	0.002	>10.0	237	7.2	2	10.4	96.5	0.35	2.03	7.98	0.146	1.81	4.4
W595548		58.5	100.5	<0.002	1.48	23.7	9.8	<1	2.1	196.5	0.59	0.06	12.00	0.228	2.47	4.2
W595549		13.1	75.8	<0.002	0.21	20.9	11.4	<1	2.0	130.5	0.73	<0.05	16.10	0.262	0.99	2.3
W595550		125.0	53.7	<0.002	0.20	31.9	9.9	<1	1.8	142.5	0.67	<0.05	13.80	0.243	0.98	2.7
W595551		96.8	125.0	<0.002	1.23	30.9	9.6	<1	3.0	144.0	0.61	0.08	14.05	0.204	2.05	4.1
W595552		14.4	115.5	<0.002	0.20	16.60	10.4	<1	2.3	154.0	0.72	<0.05	17.45	0.219	1.60	3.1
W595553		476	152.0	<0.002	0.65	15.25	10.4	<1	2.7	161.0	0.64	0.06	15.30	0.215	2.15	3.4
W595554		482	132.5	<0.002	0.66	14.55	9.4	<1	2.4	157.0	0.60	0.05	13.55	0.213	1.98	3.2
W595555		41.2	109.0	<0.002	0.30	21.1	10.7	<1	2.1	136.5	0.68	<0.05	15.20	0.232	1.61	3.0
W595556		14.7	119.5	<0.002	0.28	16.95	11.2	<1	2.5	178.0	0.77	<0.05	15.90	0.250	1.67	3.6
W595557		32.4	80.4	<0.002	0.39	36.6	10.0	<1	3.1	138.5	0.71	<0.05	14.05	0.232	1.31	3.4
W595558		53.3	169.0	<0.002	0.99	42.9	9.6	<1	2.0	167.5	0.63	0.06	14.25	0.204	3.03	5.0
W595559		164.0	241	<0.002	4.03	39.6	10.6	<1	4.3	149.0	0.33	0.09	15.65	0.155	3.77	4.5
W595560		3310	238	<0.002	6.92	230	11.3	1	12.2	100.5	0.30	0.33	15.65	0.159	2.93	6.1
W595561		3810	243	<0.002	7.04	153.0	10.3	1	14.8	153.0	0.30	0.40	14.30	0.151	3.22	6.1
W595562		45.5	192.5	<0.002	1.80	32.9	9.3	<1	5.7	186.0	0.54	0.09	14.45	0.175	2.81	4.1
W595563		21.4	105.0	<0.002	0.44	22.4	10.0	<1	2.4	181.5	0.68	<0.05	15.15	0.229	2.09	2.9
W595564		108.0	147.0	0.002	2.89	106.5	8.5	<1	2.6	143.5	0.52	0.05	10.25	0.185	3.27	3.2
W595565		33.3	154.0	0.002	0.85	42.1	8.9	<1	2.2	215	0.58	<0.05	14.30	0.210	3.05	4.3
W595566		11.9	155.5	0.003	0.67	86.3	9.9	<1	2.2	232	0.58	0.07	13.85	0.208	2.57	3.8
W595567		41.8	167.0	<0.002	0.39	19.10	9.6	<1	2.5	262	0.58	<0.05	14.35	0.211	2.64	3.8
W595568		176.0	198.5	<0.002	2.61	16.75	10.4	<1	5.8	221	0.35	0.10	11.70	0.160	3.24	3.7
W595569		303	158.5	<0.002	5.02	30.7	7.2	<1	7.9	45.5	0.29	0.12	9.75	0.120	2.32	3.3
W595570		1.6	1.1	<0.002	<0.01	0.15	0.2	1	<0.2	85.6	<0.05	<0.05	0.10	<0.005	0.02	0.2
W595571		214	173.5	<0.002	1.40	30.3	8.5	<1	2.4	103.5	0.58	0.07	14.65	0.195	3.09	4.4
W595572		253	160.0	<0.002	0.94	64.2	9.0	<1	3.0	196.0	0.53	0.05	13.05	0.205	3.06	4.0
W595573		20.0	137.5	<0.002	0.13	16.40	9.2	<1	1.7	587	0.78	<0.05	9.73	0.345	3.18	4.3
W595574		109.5	161.0	<0.002	0.87	5.54	9.9	<1	2.1	445	0.64	0.05	12.70	0.205	2.53	4.5
W595575		1890	178.5	<0.002	3.57	51.5	10.6	<1	6.5	85.4	0.56	0.31	12.50	0.214	2.73	4.8
W595576		50.2	145.0	<0.002	0.52	3.02	7.6	<1	2.2	339	0.79	<0.05	18.45	0.174	2.03	6.2
W595577		6320	136.0	<0.002	0.61	23.1	9.7	<1	2.9	351	0.60	<0.05	13.20	0.226	2.07	3.9
W595578		71.0	144.0	<0.002	0.63	3.67	10.3	<1	2.6	414	0.61	0.05	14.55	0.219	1.83	4.2
W595579		18.4	136.0	<0.002	0.17	2.06	10.7	<1	2.7	480	0.71	<0.05	15.55	0.229	1.50	5.0
W595580		19.7	126.0	<0.002	0.26	1.33	10.2	<1	2.5	612	0.75	<0.05	14.35	0.225	1.48	5.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-NOV-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20215150

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W595541		69	4.1	17.2	71	25.4	0.008
W595542		68	1.6	15.6	52	25.3	<0.005
W595543		64	5.6	16.1	56	26.2	0.006
W595544		57	4.3	15.0	99	23.8	0.018
W595545		59	14.0	14.6	63	23.6	<0.005
W595546		64	6.0	13.4	70	22.6	0.010
W595547		49	4.5	10.1	>10000	23.3	2.88
W595548		63	6.9	13.4	82	23.5	0.025
W595549		68	7.5	17.0	71	23.9	<0.005
W595550		62	6.4	14.6	236	24.5	0.016
W595551		59	2.8	15.2	153	20.1	0.094
W595552		60	6.3	16.6	53	25.2	0.009
W595553		60	3.7	17.1	191	22.9	0.031
W595554		60	3.5	14.8	202	20.4	0.021
W595555		62	6.4	16.7	65	24.5	0.012
W595556		67	5.5	17.8	54	25.8	0.005
W595557		55	9.6	15.8	102	23.6	0.018
W595558		60	3.5	14.4	65	21.6	0.047
W595559		57	4.3	14.9	237	21.4	0.040
W595560		50	4.2	13.7	773	20.7	0.272
W595561		50	4.5	16.2	574	22.5	0.197
W595562		57	2.3	14.1	55	22.7	0.013
W595563		62	5.1	16.3	70	23.8	0.011
W595564		57	3.0	12.0	233	17.3	0.148
W595565		60	3.9	13.6	75	18.6	0.034
W595566		62	1.9	14.6	81	19.7	0.017
W595567		59	2.5	14.9	85	19.7	0.007
W595568		62	4.2	12.0	450	20.7	0.023
W595569		42	3.2	8.4	5870	15.6	0.176
W595570		1	0.2	2.1	10	1.7	<0.005
W595571		56	4.0	13.1	391	22.8	0.067
W595572		59	6.5	13.8	242	32.1	0.070
W595573		78	3.4	15.1	94	165.5	0.005
W595574		59	2.3	14.4	206	25.4	0.007
W595575		67	6.3	12.9	2930	28.7	0.621
W595576		48	2.4	15.3	79	24.5	0.008
W595577		62	2.3	14.9	780	21.4	0.542
W595578		61	1.6	16.7	64	21.6	0.009
W595579		64	1.2	18.0	47	23.8	0.006
W595580		61	1.1	17.0	45	24.7	0.007

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-NOV-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20215150

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224721

Project: Klaza

P.O. No.: Batch 11

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224721

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
B700501		1.75					14.80	6.50	1630	360	1.57	1.48	4.83	117.5	41.6	8.6
B700502		2.69					25.6	6.59	548	490	1.43	0.45	0.17	4.75	77.9	5.5
B700503		1.26					49.6	6.09	808	90	1.55	0.33	0.27	24.0	79.6	6.1
B700504		3.75					0.61	9.92	6280	1040	2.88	0.39	1.34	0.41	35.5	26.2
B700505		4.61					1.62	11.10	1510	1100	3.69	0.37	0.87	0.80	35.4	23.0
B700506		5.27					5.42	7.76	3540	310	1.89	0.31	1.59	9.11	45.9	12.0
B700507		3.95					5.31	6.02	938	410	1.16	3.29	4.81	14.30	36.5	14.1
B700508		3.44					18.45	6.02	244	180	1.29	12.30	1.54	15.65	32.9	18.3
B700509		4.23					8.12	6.93	1900	310	1.46	4.25	1.38	28.9	36.2	13.6
B700510		2.20			2.10	1.290	98.1	5.59	2980	320	1.43	17.35	2.59	121.0	41.6	3.5
B700511		<0.02			2.04	1.250	92.9	5.51	2860	120	1.42	17.50	2.50	116.0	41.8	3.3
B700512		2.03				1.235	49.0	5.38	1200	110	1.31	67.9	1.88	113.0	30.3	3.0
B700513		1.98					52.3	6.62	5130	430	1.47	0.75	2.40	32.3	32.8	1.4
B700514		1.31		163			>100	1.64	6050	30	0.47	104.5	0.32	25.4	21.6	30.5
B700515		1.29		138	2.34	2.72	>100	3.06	2260	130	0.89	98.3	0.93	243	24.6	25.1
B700516		1.36		488	6.52	6.12	>100	2.43	>10000	100	0.77	212	2.14	640	101.0	5.6
W594227		3.55				7.62	34.7	1.96	2970	60	0.32	0.32	6.20	>1000	15.35	8.0
W594228		3.76		164	3.08	5.52	>100	1.80	3090	100	0.42	0.28	7.47	785	14.70	10.4
W594229		2.33		505	9.73	15.70	>100	3.14	1250	40	0.59	0.34	1.79	>1000	21.7	19.8
W594230		2.75		315	5.54	5.42	>100	4.01	>10000	60	0.79	0.28	2.47	734	19.60	28.6
W594231		4.26			1.055		63.6	7.43	964	350	1.26	0.25	1.67	27.3	37.7	13.9
W594232		3.35					4.26	6.57	823	100	1.11	1.49	0.70	1.60	48.4	22.3
W594233		1.75					1.68	8.07	1160	310	1.64	1.50	0.57	0.36	57.3	19.5
W594234		5.37					0.35	8.03	163.5	4280	1.92	0.50	3.84	0.35	43.1	8.9
W594235		0.26				1.490	94.4	4.71	4060	1030	0.98	48.6	1.55	200	31.5	60.8
W594236		4.76					4.67	6.51	493	620	1.96	0.48	2.34	1.34	29.8	8.7
W594237		3.76					3.95	7.86	401	940	1.41	8.01	3.07	27.2	31.2	16.7
W594238		4.75					11.65	7.75	734	160	1.40	7.96	2.61	25.0	30.3	16.4
W594239		4.11					5.43	7.96	366	630	1.59	2.18	3.12	10.65	35.4	28.3
W594240		2.87					2.36	8.15	110.5	740	1.54	2.69	3.67	0.91	37.8	22.4
W594241		3.86		121	2.07	1.495	>100	4.62	2830	160	0.82	20.2	2.76	254	23.6	21.7
W594242		4.20					4.08	8.00	182.5	650	1.46	4.51	3.07	1.94	35.0	29.8
W594243		5.45					2.34	7.55	173.5	430	1.46	2.97	2.40	0.71	46.2	28.0
W594244		2.34					40.6	7.07	8870	160	1.21	6.86	1.64	132.0	42.3	19.3
W594245		2.95					9.96	7.86	2280	310	1.30	5.50	1.67	21.3	39.3	11.8
W594246		1.13					11.30	7.72	3970	140	1.24	6.08	1.66	42.1	37.1	11.8
W594247		3.22		128		1.590	>100	4.48	>10000	50	0.82	8.71	1.08	241	25.7	10.4
W594248		5.05					0.11	0.16	14.4	20	0.09	0.04	35.2	0.21	0.99	1.2
W594249		1.86					3.67	7.97	668	820	1.25	3.44	1.97	7.85	45.5	8.4
W594250		0.26	12.00	268	1.515	2.52	>100	3.43	>10000	20	0.81	133.5	2.35	412	22.6	12.8

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224721

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
B700501		26	15.80	56.5	4.41	17.05	0.08	2.0	0.830	2.71	20.9	21.3	0.55	2380	0.87	0.04
B700502		7	9.77	6.6	2.11	13.60	0.11	3.8	0.045	3.18	40.5	4.4	0.28	783	1.37	0.04
B700503		8	9.38	11.8	6.43	13.65	0.14	4.1	0.074	3.01	39.6	4.7	0.27	1180	3.13	0.03
B700504		28	17.05	15.1	3.42	24.8	0.11	4.4	0.079	4.64	14.3	5.6	0.44	2080	1.59	0.04
B700505		22	17.30	16.8	3.47	26.6	0.10	5.0	0.074	5.28	12.4	4.6	0.43	1680	3.00	0.05
B700506		11	17.60	26.7	3.86	19.35	0.09	2.9	0.076	3.55	22.2	12.0	0.46	6830	0.58	0.05
B700507		6	9.94	49.1	5.71	13.90	0.09	1.1	0.274	2.18	19.0	40.0	0.55	4120	1.89	0.04
B700508		6	8.04	147.0	8.27	17.05	0.09	1.2	0.508	1.84	16.5	40.9	0.68	7760	70.6	0.03
B700509		5	10.05	81.0	6.15	18.30	0.08	1.5	0.812	2.52	18.4	34.8	0.74	5750	1.57	0.04
B700510		9	13.65	617	5.31	13.85	0.07	1.0	3.99	2.53	22.6	20.6	0.65	1880	1.12	0.10
B700511		10	13.45	598	5.07	13.60	0.07	0.9	3.88	2.51	22.0	21.0	0.64	1800	1.31	0.10
B700512		10	12.30	124.5	5.15	14.35	0.08	1.0	3.73	2.47	14.5	20.4	0.57	1880	2.07	0.04
B700513		12	12.40	144.5	3.28	16.20	0.08	0.9	0.196	2.82	14.7	18.1	0.69	2570	0.55	0.09
B700514		14	1.88	8090	16.40	6.06	0.07	0.2	4.90	0.79	11.6	16.3	0.12	538	3.47	0.01
B700515		12	5.68	2030	8.37	8.54	0.07	0.4	18.70	1.43	13.3	26.8	0.30	1680	115.5	0.02
B700516		10	2.71	4680	9.39	8.43	0.10	0.3	21.9	1.17	60.8	18.6	0.28	2910	69.1	0.01
W594227		9	3.18	507	10.35	7.60	0.06	0.2	1.790	0.86	8.4	6.4	2.24	19300	1.01	0.01
W594228		6	3.96	710	8.04	6.02	<0.05	0.2	0.584	0.72	8.0	8.7	2.45	37800	1.29	0.01
W594229		10	5.41	881	9.87	9.73	0.07	0.3	1.365	1.33	11.0	12.2	1.37	11100	1.02	0.02
W594230		10	8.47	1345	13.35	11.40	0.06	0.3	0.234	1.69	9.7	7.5	1.92	9460	1.47	0.02
W594231		18	12.60	51.4	7.59	18.55	0.08	0.6	0.039	3.22	18.6	104.0	1.95	8340	2.23	0.04
W594232		16	7.12	39.7	6.42	14.35	0.06	3.4	0.057	3.04	21.1	10.0	0.34	1680	5.56	0.07
W594233		9	12.35	12.0	4.19	18.65	0.12	3.6	0.053	3.58	41.3	13.3	0.30	2000	2.66	0.07
W594234		9	20.1	15.5	3.49	20.3	0.11	2.9	0.080	3.70	19.0	16.4	0.64	2830	1.88	0.08
W594235		35	9.12	1300	11.65	10.60	0.10	0.7	4.14	1.96	15.6	29.2	0.54	1910	15.85	0.16
W594236		6	14.00	13.7	2.64	18.15	0.07	3.0	0.051	3.05	11.4	14.1	0.47	4160	1.38	0.06
W594237		19	6.81	21.9	5.20	16.90	0.10	1.6	0.674	3.01	14.7	32.9	0.88	2490	0.97	0.03
W594238		19	8.57	16.8	7.60	17.45	0.11	1.3	0.399	3.56	14.2	20.1	1.01	2260	1.33	0.03
W594239		18	12.10	11.9	5.84	16.80	0.11	1.6	0.150	3.47	17.1	21.0	1.10	1950	1.79	0.04
W594240		16	5.62	15.2	6.09	16.50	0.12	1.8	0.071	3.79	18.3	21.4	1.11	2650	0.92	0.03
W594241		14	3.38	51.7	8.63	11.10	0.09	1.2	1.020	1.49	12.4	21.7	1.36	3130	2.65	0.02
W594242		17	5.12	20.2	5.90	15.65	0.12	1.8	0.066	3.68	17.0	21.0	1.28	2890	1.91	0.03
W594243		13	7.69	13.0	5.33	14.65	0.12	2.1	0.074	3.63	22.8	15.6	1.03	2270	2.14	0.03
W594244		16	8.35	46.8	7.00	15.50	0.12	2.0	0.487	3.22	21.4	16.9	0.88	2300	2.40	0.03
W594245		8	10.25	23.1	5.69	16.75	0.13	1.9	0.149	3.84	19.7	12.0	0.79	2240	1.57	0.03
W594246		7	9.85	23.8	6.26	16.80	0.11	1.9	0.330	3.75	17.7	13.7	0.81	2200	1.51	0.03
W594247		11	5.86	140.5	11.85	10.45	0.12	1.1	1.245	1.76	12.6	20.7	0.59	1740	4.53	0.02
W594248		2	0.05	6.2	0.17	0.45	0.07	0.1	<0.005	0.04	1.2	1.2	1.85	109	<0.05	0.08
W594249		7	8.36	20.4	3.72	16.60	0.10	2.9	0.119	3.92	21.5	14.8	0.81	1740	1.57	0.04
W594250		33	9.25	2900	11.40	8.72	0.10	0.6	12.65	1.57	11.5	21.8	0.96	4080	25.7	0.02

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224721

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
B700501		6.8	10.2	570	2220	172.0	<0.002	2.00	35.5	17.8	1	6.0	167.5	0.46	<0.05	6.63
B700502		12.6	2.3	140	2590	187.5	<0.002	1.69	36.6	4.7	<1	4.8	12.2	1.15	<0.05	26.5
B700503		14.8	2.4	170	4780	191.0	0.002	6.86	64.9	9.5	<1	4.8	12.4	1.11	<0.05	26.0
B700504		13.5	8.9	690	29.6	281	<0.002	2.67	37.2	24.1	<1	2.5	43.5	0.94	0.06	12.45
B700505		14.1	10.9	710	60.1	275	<0.002	3.36	37.6	24.7	<1	2.7	35.0	1.04	0.07	12.45
B700506		11.3	3.8	570	425	218	<0.002	3.70	93.6	16.7	<1	7.6	62.1	0.74	<0.05	10.60
B700507		5.1	1.7	520	278	126.0	<0.002	3.56	49.9	13.6	1	5.3	168.5	0.36	0.11	5.52
B700508		5.7	2.3	490	401	120.0	0.009	6.34	76.3	12.4	4	7.2	57.5	0.40	1.99	6.41
B700509		6.2	1.7	620	378	149.5	<0.002	3.78	44.7	18.1	1	8.3	56.3	0.43	0.11	6.08
B700510		6.1	2.3	440	>10000	150.0	<0.002	4.88	195.5	9.1	1	4.3	116.5	0.55	0.08	10.00
B700511		6.1	2.0	440	>10000	147.0	<0.002	4.62	185.5	9.2	<1	3.9	115.0	0.50	0.07	9.74
B700512		5.5	2.6	460	6380	163.5	<0.002	5.10	43.0	7.9	<1	4.6	91.1	0.45	0.13	11.25
B700513		6.1	1.4	480	6010	193.5	<0.002	2.46	128.5	9.8	1	2.7	103.5	0.47	<0.05	12.85
B700514		1.1	2.8	90	2640	53.9	<0.002	>10.0	798	3.1	2	8.1	12.4	0.10	2.45	2.57
B700515		2.8	4.8	180	>10000	96.4	0.022	>10.0	679	4.6	1	5.4	31.3	0.23	1.65	5.87
B700516		2.2	2.6	200	>10000	75.5	0.006	>10.0	1150	4.3	2	9.5	67.0	0.19	0.77	6.17
W594227		1.5	3.8	240	2760	47.3	<0.002	>10.0	54.3	3.6	2	30.1	64.2	0.11	0.10	1.55
W594228		1.2	3.8	220	>10000	39.0	<0.002	>10.0	225	3.6	2	4.1	96.6	0.08	0.15	1.29
W594229		2.3	2.9	400	>10000	82.4	<0.002	>10.0	489	8.2	2	6.2	43.8	0.14	0.21	1.88
W594230		2.9	3.6	540	>10000	91.7	<0.002	>10.0	324	9.9	1	3.4	79.1	0.18	0.17	2.59
W594231		5.5	5.6	890	>10000	211	<0.002	4.57	80.7	17.4	<1	3.7	74.4	0.37	0.16	5.03
W594232		8.7	5.6	290	162.0	126.0	<0.002	6.71	68.0	10.4	2	2.9	47.1	0.64	2.10	12.30
W594233		10.0	3.9	360	90.7	169.0	<0.002	3.89	30.9	15.9	1	2.0	61.2	0.70	1.02	12.60
W594234		11.2	2.9	820	38.7	166.5	<0.002	0.78	14.70	12.5	<1	3.0	188.0	0.79	0.17	9.64
W594235		4.2	15.9	380	9460	109.5	0.002	>10.0	239	6.8	2	9.5	92.0	0.32	1.98	7.02
W594236		14.4	2.3	400	149.0	127.0	<0.002	1.63	15.05	9.6	<1	3.3	76.9	1.25	0.18	10.50
W594237		5.6	7.8	630	76.4	157.5	<0.002	2.08	24.3	21.1	<1	2.9	88.7	0.38	<0.05	4.74
W594238		5.4	6.7	620	1970	189.5	<0.002	5.87	30.8	21.2	<1	4.1	75.8	0.35	<0.05	4.31
W594239		6.0	7.2	640	675	194.5	<0.002	3.92	16.35	21.0	1	3.4	104.0	0.41	0.53	5.35
W594240		6.5	6.5	710	75.1	189.5	<0.002	3.81	11.40	19.9	1	2.8	91.2	0.43	0.32	6.01
W594241		4.0	4.5	320	>10000	83.3	<0.002	6.55	151.5	12.0	1	5.3	67.7	0.27	0.13	5.49
W594242		6.2	6.5	650	135.0	190.5	<0.002	3.90	14.05	20.6	1	3.9	70.9	0.41	0.30	5.66
W594243		7.4	6.5	550	98.6	202	<0.002	3.66	15.95	16.9	1	3.4	72.4	0.49	0.31	10.15
W594244		7.7	4.5	550	6740	183.5	<0.002	5.40	62.9	14.7	1	6.5	51.3	0.49	0.07	8.78
W594245		6.6	2.0	650	1275	236	<0.002	4.57	26.7	17.0	<1	5.3	48.9	0.44	<0.05	6.86
W594246		6.7	2.1	650	1435	228	<0.002	4.95	29.0	17.0	<1	5.4	50.0	0.44	<0.05	6.49
W594247		4.3	1.7	370	8230	95.6	<0.002	>10.0	216	9.4	1	6.8	36.9	0.29	0.08	4.34
W594248		0.1	1.1	70	7.0	1.1	<0.002	0.02	0.24	0.4	1	<0.2	85.2	<0.05	<0.05	0.08
W594249		9.0	1.8	640	390	180.0	<0.002	2.25	23.6	12.7	<1	4.7	65.2	0.61	<0.05	9.35
W594250		3.3	13.5	270	>10000	89.2	0.002	>10.0	656	5.1	2	14.5	80.7	0.25	0.70	6.30

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224721

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
B700501		0.338	2.96	3.3	139	9.5	17.3	7580	66.3	0.147	
B700502		0.099	3.95	6.2	11	4.1	15.3	375	93.0	0.095	
B700503		0.093	4.97	8.3	24	11.5	27.9	1570	110.5	0.089	
B700504		0.518	6.37	4.4	177	3.3	17.0	88	141.5	0.014	
B700505		0.540	5.98	6.0	171	4.7	14.9	177	158.0	0.015	
B700506		0.323	5.55	3.2	103	4.2	17.5	928	89.1	0.783	
B700507		0.287	3.97	1.6	113	4.8	19.3	902	36.1	0.062	
B700508		0.254	3.22	1.9	116	4.7	14.7	983	38.0	0.226	
B700509		0.327	4.33	2.0	140	5.6	18.0	1940	47.9	1.300	
B700510		0.167	2.42	5.5	56	1.9	13.8	>10000	24.9	1.535	
B700511		0.165	2.38	5.5	55	1.9	13.7	>10000	23.8	1.875	
B700512		0.140	2.61	4.8	45	2.2	11.4	>10000	32.0	1.045	
B700513		0.167	2.97	3.8	48	1.9	13.2	2000	22.5	1.185	
B700514		0.034	0.75	3.7	37	1.3	3.8	2210	5.1	2.55	
B700515		0.072	1.82	39.3	35	1.7	7.3	>10000	10.0	2.95	
B700516		0.060	1.44	39.2	31	1.5	7.2	>10000	9.6	7.49	1.335
W594227		0.079	1.17	0.5	28	3.4	11.9	>10000	4.1	4.13	
W594228		0.072	2.20	0.5	27	4.4	9.5	>10000	3.7	2.82	
W594229		0.162	3.58	0.6	63	6.2	9.7	>10000	4.5	2.13	
W594230		0.223	3.83	0.9	84	10.4	7.0	>10000	6.8	1.470	2.37
W594231		0.373	6.95	1.8	141	18.3	13.3	1860	11.0	0.343	
W594232		0.261	2.62	4.7	69	9.9	15.8	310	113.5	0.167	
W594233		0.327	2.62	5.1	101	9.1	14.4	55	115.0	0.084	
W594234		0.349	3.92	2.6	104	3.2	13.7	174	99.3	<0.005	
W594235		0.143	1.67	4.2	49	4.0	9.3	>10000	21.9	2.86	
W594236		0.245	3.72	9.7	71	3.5	13.3	265	81.6	0.042	
W594237		0.444	4.49	1.8	179	6.8	12.8	1840	59.6	0.034	
W594238		0.411	5.02	1.5	171	5.5	11.2	1620	43.5	0.107	
W594239		0.448	3.95	2.2	181	6.3	15.7	751	59.0	0.058	
W594240		0.454	4.13	1.9	168	5.6	14.1	102	67.6	0.056	
W594241		0.214	2.44	1.4	85	7.2	8.0	>10000	40.3	0.228	
W594242		0.439	3.93	1.8	162	6.8	14.2	171	66.0	0.070	
W594243		0.366	4.02	2.6	129	6.4	14.1	80	73.4	0.063	
W594244		0.331	3.40	2.0	106	7.0	11.8	7760	72.0	2.10	
W594245		0.392	4.80	2.0	134	7.2	13.2	1370	70.3	0.621	
W594246		0.391	4.66	2.0	133	7.2	13.1	2540	69.1	0.882	
W594247		0.210	2.94	1.3	71	5.6	8.6	>10000	40.6	1.335	3.29
W594248		0.011	0.02	0.2	2	0.1	2.2	25	2.3	<0.005	
W594249		0.366	4.53	2.4	113	5.8	15.4	528	107.0	0.038	
W594250		0.111	1.53	8.1	34	4.3	7.4	>10000	19.0	>10.0	1.140

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224721

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224754

Project: Klaza

P.O. No.: Batch 29

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224754

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
W599945		2.77		12.90	4.95	81.4	710	1.38	0.40	2.38	16.40	60.1	0.6	4	8.42	7.7
W599946		4.24		4.80	6.81	94.7	660	1.22	0.43	0.76	4.36	78.4	1.6	5	9.22	6.9
W599947		4.30		11.80	7.22	392	640	1.25	0.17	1.15	3.86	70.4	5.0	8	10.25	13.2
W599948		4.21		2.65	7.54	1510	650	1.39	0.17	1.62	0.54	64.1	7.5	11	12.95	7.8
W599949		4.35		2.92	7.55	899	700	1.62	0.19	1.63	0.14	69.5	10.9	12	14.15	9.1
W599950		0.26		9.40	6.63	1970	200	1.47	5.53	1.76	36.8	45.5	12.4	29	17.05	197.5
W599951		4.18		6.75	7.24	776	680	1.48	0.15	2.28	1.54	61.6	8.1	11	11.85	11.2
W599952		4.36		1.34	7.29	1120	670	1.35	0.16	2.01	0.32	59.9	6.0	12	11.70	5.6
W599953		3.99		0.44	7.02	187.5	760	1.17	0.35	0.92	0.10	77.1	1.0	3	10.25	2.6
W599954		4.83		1.71	7.02	140.0	830	1.37	0.42	1.16	1.13	77.0	1.7	4	11.30	11.7
W599955		6.02		1.37	7.10	179.5	430	1.68	0.21	1.79	1.51	54.9	9.5	13	13.35	11.0
W599956		5.36		0.52	7.20	599	970	1.64	0.21	1.24	0.91	61.0	6.2	10	12.90	6.1
W599957		4.05		0.35	6.73	271	810	1.50	0.36	1.15	1.32	71.5	1.7	5	12.95	3.4
W599958		3.90		0.53	6.87	798	750	1.81	0.29	1.28	0.56	62.0	5.3	8	15.00	7.8
W599959		2.22		2.16	7.88	475	640	2.58	0.35	2.26	1.99	41.3	10.3	10	15.05	18.5
W599960		0.26	1.495	91.9	4.52	3900	70	0.97	49.4	1.50	193.5	29.8	60.2	36	9.65	1230
W599961		2.45		0.81	9.23	1000	420	2.38	0.51	0.74	0.32	57.0	14.1	11	14.55	21.0
W599962		3.69		1.41	6.63	530	430	2.54	0.90	1.97	0.12	19.00	0.9	2	12.80	5.4
W599963		3.67		1.34	6.48	374	350	2.77	0.51	1.57	0.12	18.30	0.8	2	18.10	2.7
W599964		6.07		6.25	7.59	1300	500	1.74	0.46	1.30	7.03	54.0	7.4	8	17.35	10.6
W599965		4.64		2.29	7.72	327	760	2.18	0.46	2.01	1.14	52.2	7.8	10	18.50	7.8
W599966		4.97		0.80	8.27	869	880	1.74	0.27	1.50	0.39	62.8	8.6	9	15.55	11.7
W599967		6.91		13.00	6.58	5690	190	1.48	4.05	1.05	6.35	46.2	13.4	8	11.10	47.2
W599968		4.56		8.20	6.36	4540	180	1.38	3.67	1.30	11.60	29.5	12.1	5	6.62	55.8
W599969		5.11		0.04	0.24	8.4	30	0.14	0.04	33.2	0.04	1.27	0.6	2	0.08	1.8
W599970		4.87		2.02	6.84	179.0	470	1.36	2.21	2.28	1.43	27.9	7.3	5	5.75	26.3
W599971		3.46		1.74	5.15	248	170	1.09	1.69	3.13	1.29	26.1	7.0	5	3.95	26.9
W599972		4.32		3.08	8.83	1410	1330	1.41	1.96	0.29	5.95	46.6	10.9	10	11.05	52.8
W599973		4.59		3.39	8.85	634	1410	1.49	1.18	0.32	4.87	46.5	8.6	12	8.66	29.6
W599974		<0.02		3.26	8.65	657	1390	1.53	1.20	0.31	4.32	47.4	8.8	14	8.80	30.5
W599975		4.47		2.51	9.01	112.5	900	2.04	0.93	0.88	3.43	27.2	11.1	9	7.91	16.2
W599976		4.31		2.58	7.75	110.0	1110	1.66	0.84	1.83	1.06	22.2	10.7	9	11.75	3.3
W599977		3.75		2.63	7.48	62.6	670	1.49	0.59	3.36	1.32	28.8	10.6	8	16.55	3.0
W599978		4.06		2.30	7.87	68.0	1110	1.32	0.36	4.74	1.39	44.8	9.5	7	30.2	2.8
W599979		5.40		1.13	7.69	50.0	1140	1.32	0.35	3.52	0.98	38.1	8.7	8	16.85	3.5
W599980		3.29		1.26	7.84	41.2	980	1.33	0.46	3.41	1.01	40.2	9.4	9	20.1	5.8
W599981		3.93		3.09	8.15	64.5	1350	1.20	0.60	4.43	3.75	43.8	7.7	7	20.4	2.7
W599982		5.04		1.48	7.86	54.9	950	1.32	0.46	4.34	1.72	42.5	9.3	8	15.05	6.4
W599983		4.43		1.41	7.91	74.1	1710	1.21	0.50	4.39	0.97	42.0	9.4	7	11.95	5.4
W599984		9.23		0.07	8.27	8.7	1090	1.88	1.14	0.28	0.14	74.7	4.5	10	10.50	389

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599945		1.40	10.35	0.09	2.8	0.157	2.50	32.6	4.7	0.38	24100	6.70	0.03	9.3	0.6	110
W599946		1.56	14.15	0.12	4.1	0.053	3.41	41.9	4.7	0.36	4620	1.55	0.03	12.4	1.3	170
W599947		2.00	14.35	0.14	3.9	0.034	3.59	37.3	7.3	0.52	5280	2.36	0.03	11.7	3.5	280
W599948		2.24	15.30	0.12	3.7	0.030	3.74	31.8	3.8	0.63	6670	0.50	0.03	11.5	5.3	360
W599949		1.98	16.45	0.14	4.0	0.030	3.75	35.4	3.3	0.69	4210	0.49	0.03	11.7	7.8	410
W599950		6.16	15.00	0.11	1.0	0.646	2.98	23.8	43.0	0.75	2040	8.64	0.07	6.7	17.9	530
W599951		2.11	15.40	0.13	3.9	0.041	3.75	31.0	4.0	0.86	6140	0.47	0.03	11.2	6.3	380
W599952		2.38	14.85	0.12	3.8	0.025	3.73	30.0	6.3	0.75	6840	0.94	0.04	10.5	4.3	400
W599953		1.35	14.80	0.14	3.9	0.025	3.57	41.7	6.5	0.52	2950	0.44	0.03	12.7	0.8	130
W599954		1.80	15.30	0.13	4.1	0.035	3.45	41.1	7.7	0.52	4970	0.68	0.03	12.4	1.2	160
W599955		3.50	14.85	0.13	3.8	0.034	3.20	27.2	8.8	0.61	6940	0.90	0.03	10.2	6.8	410
W599956		2.10	14.35	0.12	3.8	0.029	3.35	30.2	7.0	0.39	7850	0.50	0.03	11.4	4.5	330
W599957		1.40	15.30	0.13	4.1	0.030	3.28	36.9	7.1	0.35	7540	0.61	0.03	12.4	1.3	170
W599958		1.96	14.80	0.12	3.7	0.031	3.09	31.4	15.1	0.51	5010	2.12	0.03	11.8	3.5	270
W599959		3.11	18.45	0.12	3.1	0.181	3.25	20.5	14.9	0.56	4570	1.78	0.07	15.1	5.2	400
W599960		11.65	11.35	0.11	0.7	4.05	1.95	15.6	30.5	0.53	1880	16.30	0.15	4.3	15.3	370
W599961		4.07	19.75	0.13	3.7	0.062	4.04	27.0	9.3	0.32	1990	0.61	0.08	11.8	3.9	630
W599962		0.83	18.25	0.08	2.9	0.023	3.00	9.0	7.5	0.69	3430	1.39	0.04	22.9	0.7	60
W599963		0.78	18.00	0.09	2.9	0.021	2.96	8.9	9.3	0.69	3830	2.01	0.04	19.9	0.7	40
W599964		2.79	17.45	0.12	3.6	0.087	3.24	27.2	14.9	0.40	5370	2.89	0.05	12.5	2.9	390
W599965		2.68	17.05	0.13	3.7	0.044	3.37	25.9	14.6	0.47	2530	3.45	0.06	12.5	3.2	360
W599966		2.72	17.40	0.12	3.8	0.037	3.66	33.6	7.1	0.47	1950	2.48	0.09	10.8	3.2	480
W599967		5.18	14.50	0.08	2.2	0.168	2.49	23.5	17.2	0.54	4690	1.79	0.04	6.7	5.2	410
W599968		7.20	13.30	0.06	1.3	0.124	1.55	14.8	48.5	0.69	2430	0.63	0.07	4.1	2.6	510
W599969		0.16	0.77	0.05	0.1	0.012	0.07	1.2	1.1	1.30	106	0.11	0.11	0.4	1.0	60
W599970		5.83	14.60	0.05	1.3	0.075	2.10	13.0	30.1	0.90	2550	0.48	0.12	4.9	1.9	550
W599971		6.42	11.65	0.07	1.0	0.074	1.43	13.9	28.2	0.93	3520	0.40	0.05	3.9	1.7	430
W599972		3.85	19.10	0.10	1.6	0.136	4.09	23.0	8.6	0.36	1430	0.27	0.06	7.3	2.8	650
W599973		3.55	18.55	0.09	1.6	0.141	4.17	23.6	9.3	0.35	2100	1.17	0.07	8.2	2.9	660
W599974		3.51	18.75	0.10	1.5	0.135	4.09	23.5	9.5	0.34	2070	1.37	0.07	8.1	3.6	650
W599975		3.50	18.60	0.07	1.3	0.109	1.76	11.8	85.5	0.29	4270	0.27	0.04	8.7	2.7	700
W599976		2.94	18.75	0.05	1.7	0.067	1.74	9.1	69.3	0.29	3630	0.24	0.12	7.4	2.5	650
W599977		3.32	17.90	0.08	1.3	0.063	1.56	11.3	56.7	0.48	2450	0.25	0.46	7.2	3.6	650
W599978		4.06	16.75	0.08	1.3	0.060	2.19	22.3	43.7	0.97	3870	0.30	0.20	6.4	2.4	610
W599979		3.64	15.95	0.08	1.4	0.065	2.25	18.0	27.3	1.04	2790	0.30	1.24	6.2	2.2	600
W599980		3.78	16.90	0.08	1.4	0.063	2.15	18.8	27.5	1.09	2840	0.35	1.33	6.6	2.5	610
W599981		3.73	14.80	0.11	1.5	0.079	2.57	23.0	36.6	1.43	3830	0.23	0.51	5.9	2.2	620
W599982		3.83	17.25	0.11	1.4	0.065	2.11	21.2	34.5	1.34	3520	0.44	0.90	6.6	2.5	590
W599983		3.72	16.50	0.10	1.4	0.067	2.94	21.5	38.9	1.13	3130	0.34	0.51	6.5	2.2	590
W599984		2.20	17.05	0.12	1.7	0.014	3.39	39.5	33.1	0.41	49	1.51	0.08	4.1	4.8	1020

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599945		856	131.5	<0.002	0.76	31.9	3.1	<1	3.1	36.5	0.79	<0.05	20.9	0.087	2.54	6.6
W599946		177.5	206	<0.002	0.76	21.7	4.4	<1	3.2	16.3	1.04	<0.05	26.6	0.139	3.63	6.9
W599947		176.0	215	<0.002	1.57	29.8	7.8	<1	5.4	20.3	0.95	<0.05	22.7	0.209	5.17	7.1
W599948		24.1	209	<0.002	1.71	19.10	9.4	<1	2.5	25.9	0.89	<0.05	20.2	0.251	5.70	8.9
W599949		25.0	224	<0.002	1.45	20.1	11.5	<1	2.3	30.4	0.88	<0.05	20.4	0.279	6.04	7.8
W599950		1795	162.0	<0.002	3.55	48.1	10.0	1	6.0	81.4	0.51	0.23	11.55	0.215	2.54	4.3
W599951		404	200	<0.002	1.39	24.4	10.5	<1	3.6	34.6	0.88	<0.05	18.95	0.265	5.78	6.5
W599952		37.2	200	<0.002	1.91	22.3	10.3	<1	3.2	39.6	0.82	<0.05	18.60	0.273	6.29	5.2
W599953		16.3	235	<0.002	0.44	7.54	3.6	<1	2.1	18.2	1.04	<0.05	26.7	0.126	3.29	7.7
W599954		70.2	201	<0.002	1.01	14.80	5.5	<1	3.2	24.4	1.03	<0.05	26.5	0.143	3.94	7.2
W599955		59.3	138.0	<0.002	3.03	34.1	13.6	<1	1.7	41.4	0.79	<0.05	17.05	0.288	5.06	6.1
W599956		42.8	158.0	<0.002	1.49	22.4	8.7	<1	1.7	30.8	0.90	<0.05	20.6	0.236	4.24	6.3
W599957		27.2	189.0	<0.002	0.47	15.40	4.6	<1	1.9	28.2	1.04	<0.05	24.7	0.147	3.37	7.2
W599958		59.8	161.5	<0.002	1.15	29.7	8.5	<1	1.8	39.6	0.96	<0.05	20.5	0.206	3.68	9.0
W599959		395	185.0	<0.002	2.88	102.0	14.4	1	5.9	91.9	1.17	<0.05	15.15	0.299	4.29	13.5
W599960		9010	111.0	0.002	>10.0	235	7.3	2	10.0	88.9	0.33	1.89	7.43	0.147	1.71	4.3
W599961		74.9	230	<0.002	4.02	37.4	19.7	<1	4.5	63.5	0.76	0.16	13.40	0.427	4.66	4.8
W599962		76.3	186.5	<0.002	0.44	32.6	3.4	1	3.2	75.4	2.26	0.07	20.5	0.048	4.85	15.0
W599963		68.1	207	<0.002	0.46	23.2	3.3	<1	3.5	41.9	2.19	<0.05	20.7	0.043	4.63	12.7
W599964		726	191.0	<0.002	2.44	113.5	10.3	<1	6.5	53.6	0.90	<0.05	17.05	0.261	4.02	6.5
W599965		86.4	178.5	<0.002	2.20	41.0	11.6	<1	2.5	98.0	1.05	<0.05	17.40	0.274	3.80	6.9
W599966		29.0	201	<0.002	2.28	32.8	12.1	<1	2.8	82.1	0.77	<0.05	17.15	0.302	4.29	4.6
W599967		362	150.0	<0.002	3.56	75.4	11.6	1	5.5	45.9	0.48	0.29	10.50	0.255	4.62	3.2
W599968		686	98.0	<0.002	4.13	63.2	12.7	2	8.3	62.5	0.27	0.33	5.10	0.270	3.81	1.4
W599969		2.2	2.3	<0.002	0.02	0.27	0.2	1	0.2	82.1	<0.05	<0.05	0.24	0.005	0.04	0.4
W599970		86.6	109.5	<0.002	2.67	23.8	13.8	1	7.7	90.4	0.34	0.08	5.13	0.339	3.91	1.5
W599971		46.8	98.3	<0.002	2.76	34.4	12.5	1	8.4	90.7	0.26	0.08	3.78	0.242	3.46	1.0
W599972		245	247	<0.002	2.00	50.5	16.7	1	6.4	26.7	0.50	0.10	8.94	0.352	6.15	2.2
W599973		282	246	<0.002	1.41	43.5	14.6	<1	5.0	31.6	0.56	<0.05	9.76	0.353	6.20	2.2
W599974		241	252	<0.002	1.38	43.8	15.0	<1	5.2	32.2	0.56	<0.05	9.89	0.348	6.30	2.2
W599975		108.5	89.6	<0.002	0.94	34.8	14.9	1	2.1	73.0	0.57	<0.05	7.73	0.378	2.71	2.1
W599976		107.5	62.0	<0.002	1.00	23.4	12.4	<1	1.6	125.0	0.57	<0.05	6.61	0.364	2.02	2.0
W599977		100.5	49.6	<0.002	0.94	22.8	11.7	<1	1.6	194.0	0.52	<0.05	7.03	0.353	1.88	1.8
W599978		105.0	112.0	0.002	0.80	25.7	12.0	<1	1.7	204	0.49	<0.05	8.58	0.321	2.30	2.3
W599979		54.4	102.5	<0.002	0.75	18.10	11.9	<1	1.5	353	0.48	<0.05	8.39	0.323	2.42	2.3
W599980		59.3	105.5	<0.002	0.66	18.50	12.6	<1	1.7	349	0.50	<0.05	8.56	0.326	2.38	2.3
W599981		174.0	115.5	<0.002	0.80	16.80	11.1	<1	1.5	316	0.45	<0.05	8.78	0.324	2.17	2.3
W599982		70.3	101.0	<0.002	1.01	16.40	12.6	<1	1.7	324	0.50	<0.05	8.34	0.320	2.36	2.3
W599983		63.6	120.0	<0.002	1.22	18.75	12.3	1	1.5	270	0.47	<0.05	9.06	0.318	2.61	2.3
W599984		8.9	198.0	<0.002	1.75	3.85	5.0	1	3.0	80.3	0.34	0.28	11.65	0.135	2.72	3.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 15-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224754

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599945		4	1.3	20.3	1690	83.7	0.040
W599946		12	2.9	18.6	507	128.5	0.033
W599947		40	4.2	19.6	425	123.5	0.081
W599948		57	3.6	21.9	86	126.0	0.102
W599949		68	4.0	23.4	28	138.0	0.052
W599950		64	5.8	12.0	2860	28.6	0.594
W599951		68	3.3	22.4	166	132.0	0.038
W599952		62	3.2	20.5	51	131.5	0.024
W599953		8	1.6	19.1	40	123.0	0.035
W599954		14	2.1	20.4	159	128.5	0.038
W599955		75	4.2	21.1	361	134.5	0.094
W599956		49	3.7	20.6	248	127.0	0.100
W599957		15	2.1	18.8	370	130.5	0.037
W599958		44	3.6	20.5	164	123.0	0.053
W599959		87	2.4	19.0	394	96.8	0.022
W599960		47	4.2	9.7	>10000	22.5	3.15
W599961		116	3.6	21.1	139	140.5	0.026
W599962		4	1.1	15.5	33	61.7	0.050
W599963		4	0.7	14.5	26	57.7	0.035
W599964		61	3.1	18.2	842	127.0	0.242
W599965		70	3.1	19.0	166	123.0	0.026
W599966		73	2.5	18.8	95	138.5	0.080
W599967		90	4.5	14.6	579	73.3	0.451
W599968		117	6.8	12.2	750	48.4	0.789
W599969		1	0.1	2.9	6	2.2	<0.005
W599970		133	4.6	13.4	137	41.9	0.218
W599971		103	3.6	14.0	143	37.1	0.198
W599972		135	12.3	14.0	444	55.2	0.040
W599973		113	6.7	14.5	374	51.8	0.035
W599974		113	6.5	14.7	323	52.9	0.039
W599975		124	9.3	11.6	290	48.8	0.034
W599976		117	7.6	10.0	106	51.4	0.013
W599977		110	2.2	13.2	110	43.5	0.016
W599978		104	2.6	18.2	119	38.0	0.015
W599979		106	1.2	15.3	95	42.2	0.012
W599980		105	1.3	15.8	98	46.0	0.012
W599981		104	1.3	16.5	282	44.9	0.019
W599982		106	1.5	18.6	148	43.8	0.019
W599983		104	1.8	16.9	95	43.5	0.015
W599984		41	9.3	12.4	18	42.9	0.006

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 15-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224754

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224759

Project: Klaza

P.O. No.: Batch 34

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224759

Sample Description	Method	WEI-21	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W595621		1.79			2.13	7.22	264	1400	1.54	0.27	2.31	14.50	44.6	7.6	14	24.5
W595622		4.92			0.10	7.36	16.1	3020	1.79	0.28	2.73	0.17	46.5	14.7	14	15.25
W595623		4.56			0.13	7.26	7.2	3900	1.63	0.29	2.58	0.13	39.0	7.5	16	14.80
W595624		4.21			0.23	7.45	23.4	3020	1.79	0.45	2.90	0.26	38.0	8.4	14	15.55
W595625		2.63			5.36	7.21	560	1220	1.59	0.59	2.45	2.56	39.4	5.1	13	17.45
W595626		<0.02			4.86	7.42	437	1130	1.65	0.54	2.48	2.24	44.5	4.9	10	17.45
W595627		1.51			3.43	6.92	299	290	1.34	3.13	2.32	2.49	46.8	5.8	12	11.20
W595628		4.48			0.11	7.79	8.7	2600	1.63	0.26	2.77	0.15	41.5	6.6	13	13.65
W595629		4.82			0.11	8.11	10.8	2340	1.13	0.29	1.77	0.19	43.3	7.3	11	11.80
W595630		1.64			0.46	7.57	12.7	1710	1.48	0.64	2.18	2.12	40.4	5.6	10	15.20
W595631		4.69			0.12	7.39	5.9	2340	1.64	0.20	2.57	0.13	40.8	5.7	14	11.90
W595632		0.26		1.490	96.1	4.74	4020	90	1.01	52.9	1.55	199.5	30.6	59.3	35	9.34
W595633		3.41			0.14	7.80	8.1	2700	1.59	0.25	2.71	0.21	43.4	5.9	13	12.35
W595634		2.23			0.10	8.04	6.0	2600	1.66	0.23	2.99	0.16	42.4	8.4	15	13.05
W595635		4.83			0.15	7.78	5.4	2560	1.62	0.25	3.10	0.13	45.5	6.9	14	12.75
W595636		1.62			3.59	7.26	784	190	1.45	3.09	2.45	34.1	44.1	9.9	14	10.65
W595637		2.29			0.13	7.91	6.8	2590	1.66	0.26	3.12	0.17	42.5	7.4	12	10.30
W595638		1.59	1.140		48.5	7.29	414	760	1.58	3.59	2.98	5.82	43.2	6.8	13	15.55
W595639		0.71	2.01		74.3	6.66	414	1240	1.47	4.37	2.90	5.11	38.9	6.8	11	13.50
W595640		4.06			0.70	7.11	39.6	1880	1.66	0.38	2.72	3.40	44.6	7.5	13	24.0
W595641		2.75			9.10	7.08	424	400	1.45	4.14	2.39	4.59	43.6	7.0	14	11.95
W595642		8.16			1.67	7.60	193.0	830	1.67	1.08	1.63	4.68	50.3	9.8	11	20.3
W595643		3.27			1.65	7.69	208	1350	1.78	0.37	1.83	1.93	54.8	6.5	12	20.9
W595644		5.87			0.47	7.43	56.4	1210	1.71	0.20	2.12	0.84	47.9	4.2	12	18.35
W595645		3.22			8.95	7.07	235	1310	1.43	0.26	2.36	23.8	47.4	6.0	11	15.20
W595646		0.26			10.15	6.61	1725	270	1.46	5.32	1.70	36.0	46.4	11.7	28	16.30
W595647		8.46			0.35	6.70	19.7	1610	1.53	0.53	3.20	1.92	42.3	8.6	11	12.50
W595648		6.41			0.61	6.42	44.0	820	1.55	0.42	3.13	2.36	33.3	8.7	12	11.95
W595649		4.54			1.04	6.93	96.0	750	1.99	1.14	2.49	2.61	36.9	5.9	8	20.2
W595650		7.91			0.10	6.59	12.9	1960	2.21	0.08	1.88	0.18	41.3	3.5	9	32.4
W595651		5.04			0.53	7.16	34.7	2560	1.76	0.40	2.19	0.63	41.2	11.0	10	16.65
W595652		1.83			4.40	7.13	364	1430	1.81	0.30	2.39	20.4	44.2	7.4	11	15.30
W595653		4.51			0.46	7.36	16.1	2440	1.74	0.51	2.54	0.91	44.9	9.4	11	15.25
W595654		3.28			0.30	7.46	11.2	2150	1.79	0.14	2.40	1.76	49.3	4.6	12	16.60
W595655		5.14			0.01	0.12	<0.2	30	0.08	0.01	32.5	0.02	1.02	0.9	2	0.07
W595656		4.70			0.80	6.51	222	1240	1.75	0.41	3.11	2.93	39.9	5.4	10	45.7
W595657		1.75			28.7	5.72	4780	330	1.75	4.40	4.22	65.4	42.8	6.2	10	26.6
W595658		3.77			0.75	6.97	1340	1880	1.40	0.45	3.11	3.01	42.5	8.5	12	15.30
W595659		4.73			0.17	7.68	17.0	2360	1.22	0.20	1.79	0.29	44.4	6.2	10	10.95
W595660		1.97			6.25	6.32	1050	1030	1.30	7.69	3.49	2.17	49.2	30.4	10	13.20

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W595621		23.9	2.89	16.25	0.10	0.8	0.065	3.37	23.0	98.4	0.63	825	3.45	0.38	6.6	3.3
W595622		30.8	3.52	16.70	0.10	0.8	0.043	2.86	23.7	18.0	0.77	533	7.49	1.74	7.3	4.6
W595623		46.8	3.23	16.35	0.09	0.8	0.045	2.41	20.2	10.9	0.73	443	8.62	2.24	7.0	3.3
W595624		85.8	3.32	17.25	0.08	0.8	0.074	2.71	19.2	29.4	0.73	602	5.85	1.80	8.1	3.1
W595625		368	4.03	16.60	0.09	0.7	0.181	3.28	20.0	126.0	0.76	1200	6.88	0.08	6.3	3.5
W595626		301	3.78	16.65	0.08	0.7	0.153	3.31	23.6	129.0	0.78	1240	6.54	0.08	6.3	2.5
W595627		195.5	5.58	13.20	0.07	0.6	0.154	3.22	24.4	17.2	0.80	2550	3.02	0.03	5.2	2.9
W595628		16.7	3.49	17.30	0.10	0.7	0.064	2.74	20.5	16.0	0.68	572	2.54	2.00	7.0	3.0
W595629		22.3	3.60	18.05	0.08	0.8	0.060	2.56	21.4	34.6	0.61	658	3.00	0.30	7.5	3.5
W595630		19.8	3.66	16.65	0.08	0.7	0.204	2.71	20.5	24.1	0.81	745	3.52	0.67	6.7	2.8
W595631		39.6	3.46	16.55	0.11	0.8	0.061	2.55	20.9	15.6	0.75	604	5.88	2.25	7.0	3.6
W595632		1260	12.00	11.95	0.06	0.8	4.56	2.00	14.9	30.2	0.55	1940	17.00	0.16	4.2	16.0
W595633		17.6	3.44	16.55	0.10	0.8	0.058	2.72	21.8	15.7	0.79	613	2.84	2.40	7.0	2.9
W595634		16.8	4.02	17.75	0.11	0.7	0.060	2.64	20.8	15.0	0.85	691	2.07	2.54	7.4	4.1
W595635		29.7	3.74	18.00	0.11	0.7	0.073	2.80	21.6	11.5	0.81	703	2.25	2.25	7.5	3.3
W595636		117.0	5.25	15.30	0.09	0.6	0.361	3.21	22.6	14.9	0.71	1480	1.91	0.78	6.5	3.5
W595637		24.0	3.78	17.60	0.09	0.7	0.069	2.85	21.4	8.7	0.82	722	2.01	2.11	7.5	3.2
W595638		318	4.49	16.30	0.09	0.6	0.129	3.29	20.9	30.7	0.89	1760	3.08	0.83	6.8	3.3
W595639		348	3.80	14.15	0.10	0.6	0.104	2.97	19.7	24.3	0.83	1630	8.53	0.84	6.4	5.9
W595640		79.2	3.47	16.10	0.11	0.7	0.065	2.75	21.3	119.5	0.78	1460	5.36	0.74	7.7	3.8
W595641		580	4.90	14.25	0.12	0.7	0.419	3.02	22.5	17.9	0.64	1060	3.35	1.08	6.8	3.6
W595642		32.3	4.22	15.25	0.12	1.0	0.148	3.44	26.8	12.2	0.51	1520	1.24	0.21	7.8	3.0
W595643		18.6	3.59	16.15	0.14	0.9	0.064	3.46	28.0	20.0	0.66	2060	1.79	0.03	7.9	3.7
W595644		7.8	3.12	15.05	0.11	0.9	0.038	2.80	24.0	97.2	0.69	1420	1.22	0.04	7.5	2.9
W595645		100.0	3.55	14.15	0.10	0.8	0.055	3.00	24.6	46.2	0.78	951	0.77	0.06	6.4	2.7
W595646		192.5	5.84	14.00	0.11	0.9	0.626	2.85	24.4	42.1	0.72	1940	7.98	0.07	6.2	16.8
W595647		13.0	2.94	14.40	0.11	0.8	0.168	3.03	19.7	61.5	0.89	1180	1.31	0.09	5.3	2.5
W595648		10.9	2.44	14.30	0.10	0.9	0.077	3.08	14.6	13.6	0.65	1710	1.74	0.09	5.5	2.7
W595649		21.6	2.22	15.65	0.12	1.0	0.166	3.33	15.7	30.2	0.55	1760	1.57	0.05	6.5	1.7
W595650		6.4	1.79	15.40	0.12	1.8	0.019	2.70	20.1	29.4	0.54	647	1.50	0.04	9.6	2.1
W595651		178.5	3.08	15.55	0.19	1.0	0.075	3.00	19.5	47.1	0.46	632	1.04	1.69	8.2	2.9
W595652		125.5	3.31	14.85	0.12	0.9	0.071	2.92	21.5	97.4	0.70	1320	1.80	0.41	7.7	3.0
W595653		18.6	3.68	15.65	0.13	1.0	0.061	3.07	21.2	22.1	0.50	726	1.39	1.73	8.0	2.9
W595654		7.2	3.32	15.90	0.13	1.0	0.081	2.93	25.0	17.9	0.58	645	1.49	2.29	8.5	3.1
W595655		1.7	0.20	0.38	0.06	<0.1	<0.005	0.03	1.1	1.3	1.71	103	0.42	0.05	0.3	0.7
W595656		48.5	2.70	14.25	0.10	1.3	0.104	2.94	19.3	52.5	0.54	1050	3.23	0.40	7.9	2.6
W595657		222	3.91	12.90	0.10	1.6	1.875	2.21	21.7	38.0	0.38	1480	12.50	0.03	7.4	3.6
W595658		18.5	3.43	14.65	0.10	1.2	0.086	2.81	20.8	33.5	0.55	1090	5.21	0.81	7.7	3.1
W595659		16.3	2.95	16.00	0.12	1.2	0.053	3.19	21.7	40.2	0.52	641	1.94	0.38	8.3	2.8
W595660		30.0	4.17	13.15	0.12	0.9	0.178	2.82	26.5	40.8	0.73	1980	3.12	0.24	6.2	3.4

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W595621		560	962	144.5	<0.002	0.78	9.53	9.1	1	2.2	237	0.55	0.05	11.90	0.229	2.31
W595622		580	14.4	143.5	0.004	0.81	3.64	9.5	1	4.2	408	0.63	<0.05	13.55	0.228	1.76
W595623		580	16.5	99.4	0.003	0.34	1.00	9.4	<1	2.0	573	0.56	<0.05	12.20	0.234	1.10
W595624		610	16.1	118.0	0.002	0.60	8.58	9.8	<1	2.1	449	0.65	0.06	11.65	0.242	1.74
W595625		620	299	154.5	0.005	1.65	32.8	10.0	<1	3.7	226	0.45	<0.05	9.95	0.239	2.74
W595626		620	312	173.5	0.006	1.57	31.0	10.2	<1	3.6	229	0.46	<0.05	10.50	0.240	2.68
W595627		580	277	165.0	0.002	3.91	20.5	7.9	1	4.6	92.0	0.38	0.07	9.77	0.207	2.27
W595628		620	18.4	98.6	<0.002	0.22	2.55	9.9	<1	2.2	393	0.54	<0.05	10.10	0.249	1.26
W595629		680	16.5	86.6	<0.002	0.22	15.95	10.4	<1	2.5	180.0	0.57	<0.05	10.85	0.267	1.13
W595630		590	108.5	110.0	0.002	0.38	7.51	8.7	1	3.0	210	0.54	<0.05	10.75	0.227	1.56
W595631		600	18.7	97.8	<0.002	0.11	1.29	10.0	<1	2.7	396	0.51	<0.05	11.10	0.235	1.01
W595632		380	9330	114.0	<0.002	>10.0	245	6.5	2	10.7	91.7	0.33	2.45	7.57	0.148	1.86
W595633		620	22.1	101.5	<0.002	0.14	2.34	9.6	<1	2.3	431	0.51	0.05	10.60	0.244	1.16
W595634		690	18.8	94.4	<0.002	0.12	1.19	11.1	<1	1.9	467	0.52	<0.05	9.67	0.281	1.03
W595635		680	17.8	104.5	<0.002	0.06	1.44	12.4	1	2.0	430	0.57	<0.05	11.00	0.275	1.33
W595636		600	356	166.5	<0.002	3.28	9.98	8.9	<1	3.5	215	0.47	0.15	9.97	0.227	2.16
W595637		680	17.3	112.0	<0.002	0.07	2.09	10.3	<1	1.9	445	0.55	<0.05	10.45	0.276	1.44
W595638		620	>10000	147.0	<0.002	1.92	68.1	9.8	<1	2.6	269	0.50	<0.05	11.15	0.249	2.38
W595639		550	>10000	140.0	<0.002	1.81	101.5	9.3	<1	2.4	242	0.46	<0.05	9.98	0.229	2.01
W595640		610	88.6	106.0	<0.002	0.35	19.95	10.2	<1	2.0	313	0.55	<0.05	10.65	0.261	1.99
W595641		550	274	140.0	<0.002	2.56	32.9	9.8	<1	3.2	264	0.52	0.05	10.75	0.233	1.83
W595642		560	144.5	193.0	<0.002	1.95	11.00	9.9	<1	4.8	115.0	0.61	0.08	14.35	0.231	3.05
W595643		570	123.0	190.5	<0.002	1.29	17.95	10.4	<1	3.3	146.5	0.62	<0.05	15.10	0.232	2.91
W595644		530	84.2	142.5	<0.002	0.59	13.00	9.4	<1	1.6	157.0	0.58	<0.05	13.65	0.221	2.47
W595645		500	1740	181.5	<0.002	1.44	22.1	8.8	<1	4.4	102.5	0.50	<0.05	12.80	0.197	2.27
W595646		490	1705	168.5	<0.002	3.43	45.2	9.4	1	5.8	78.3	0.48	0.21	11.55	0.207	2.46
W595647		500	109.5	139.5	<0.002	0.46	4.37	8.5	1	1.9	96.0	0.44	0.23	11.15	0.166	2.27
W595648		450	108.5	157.5	<0.002	0.53	4.89	8.2	<1	1.8	106.5	0.45	0.06	10.90	0.161	2.88
W595649		450	190.5	168.5	<0.002	0.61	15.90	8.3	<1	3.6	172.0	0.53	<0.05	11.25	0.167	2.87
W595650		440	34.8	104.5	<0.002	0.12	5.77	4.5	<1	1.6	328	0.83	<0.05	9.55	0.162	1.94
W595651		610	26.2	100.5	<0.002	0.41	35.4	10.0	<1	2.1	309	0.66	0.09	10.45	0.275	1.22
W595652		550	558	113.5	<0.002	0.84	48.7	9.8	1	2.4	191.0	0.56	<0.05	11.25	0.236	1.67
W595653		550	80.1	116.5	<0.002	0.78	6.33	10.1	1	2.1	308	0.60	0.09	12.40	0.247	1.31
W595654		600	196.5	113.5	<0.002	0.07	3.55	10.6	1	1.6	365	0.63	<0.05	13.25	0.253	1.21
W595655		70	1.2	0.9	<0.002	0.01	0.11	0.2	2	<0.2	82.2	<0.05	<0.05	0.12	0.005	<0.02
W595656		470	145.5	106.0	<0.002	0.27	11.10	7.4	<1	7.1	234	0.68	<0.05	10.75	0.206	1.77
W595657		580	4370	114.0	<0.002	2.65	82.7	6.2	1	3.0	280	0.56	0.19	9.18	0.202	2.11
W595658		590	48.6	113.5	<0.002	0.63	14.85	9.2	<1	1.8	227	0.61	0.06	11.25	0.240	1.63
W595659		610	18.6	116.5	<0.002	0.18	10.40	10.3	1	1.7	123.5	0.66	<0.05	12.40	0.258	1.30
W595660		470	283	144.5	<0.002	1.65	26.7	8.6	<1	1.5	143.5	0.49	0.84	10.70	0.195	1.79

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224759

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W595621		4.0	61	3.2	13.8	931	21.0	0.123
W595622		4.4	59	1.9	14.7	49	21.1	0.017
W595623		3.5	62	1.7	13.0	49	19.8	0.011
W595624		4.6	56	3.5	13.9	60	20.6	0.012
W595625		3.1	69	2.4	13.0	219	17.5	0.096
W595626		3.1	70	2.3	13.9	187	18.4	0.085
W595627		3.2	59	2.4	11.8	282	15.8	0.192
W595628		3.3	68	3.0	14.8	53	19.1	0.005
W595629		2.5	72	4.2	14.6	62	20.0	0.005
W595630		3.4	65	2.4	14.6	190	18.4	<0.005
W595631		3.9	66	1.4	15.1	54	21.3	0.005
W595632		4.8	48	4.3	9.7	>10000	21.5	2.90
W595633		3.7	68	1.5	15.0	62	20.1	<0.005
W595634		3.4	75	1.4	16.6	62	18.9	0.005
W595635		3.7	78	1.7	18.4	61	18.0	<0.005
W595636		3.6	61	2.0	14.3	2280	15.5	0.724
W595637		3.5	76	2.0	15.6	62	17.4	0.006
W595638		4.0	70	3.5	15.4	377	17.0	0.143
W595639		3.2	63	3.4	14.0	267	17.6	0.172
W595640		3.2	70	2.8	15.3	339	20.7	0.014
W595641		3.8	64	2.4	14.1	403	19.7	0.904
W595642		3.5	60	3.3	12.9	415	30.0	0.101
W595643		6.4	63	5.0	16.7	231	28.9	0.127
W595644		6.3	58	1.8	13.8	117	27.6	0.019
W595645		4.0	55	1.6	13.0	1850	24.4	0.172
W595646		4.2	62	5.3	11.5	2760	28.5	0.616
W595647		3.3	51	1.0	11.7	222	22.7	0.012
W595648		2.6	48	1.2	10.9	187	26.8	0.017
W595649		3.0	46	1.9	11.4	280	30.6	0.080
W595650		9.2	31	1.7	11.4	61	50.7	<0.005
W595651		2.8	75	1.5	15.5	112	30.7	0.009
W595652		3.2	65	1.4	15.5	1640	27.5	0.124
W595653		2.5	66	2.3	15.9	131	29.2	0.008
W595654		2.4	67	1.9	16.3	145	30.5	0.010
W595655		0.2	1	0.1	2.1	4	1.7	0.005
W595656		3.6	52	2.1	13.3	283	37.9	0.065
W595657		4.3	51	6.2	11.2	5240	58.7	1.885
W595658		3.3	62	2.3	13.9	276	36.3	0.391
W595659		2.4	64	2.4	15.3	56	36.7	0.011
W595660		5.4	53	2.6	18.6	209	26.8	0.390

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224759

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224780

Project: Klaza

P.O. No.: Batch 32

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224780

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599985		10.08		1.02	8.05	19.5	1130	2.23	1.55	0.34	1.55	80.2	7.0	12	13.60	281
W599986		8.74		0.12	8.44	17.1	1060	2.56	1.32	0.28	2.05	73.8	6.8	13	11.20	595
W599987		4.88		0.22	8.27	22.8	810	2.27	1.36	0.30	2.48	69.4	7.4	18	9.85	673
W599988		0.26		9.81	6.86	1800	280	1.56	5.58	1.78	36.2	47.7	12.1	29	16.50	201
W599989		8.00		0.39	8.97	15.3	720	1.30	1.93	0.22	2.43	53.6	11.7	14	10.70	474
W599990		13.19		0.28	8.40	21.5	510	1.37	1.76	0.58	0.98	62.1	14.8	13	15.45	216
W599991		12.93		0.35	8.07	27.3	970	1.53	1.15	1.49	0.36	61.6	13.3	13	15.00	309
W599992		14.66		0.62	7.56	64.1	190	1.42	2.99	1.43	0.56	44.3	12.3	12	14.10	420
W599993		15.88		0.20	7.72	7.1	340	1.62	1.36	1.69	0.28	46.8	11.4	14	14.75	109.5
W599994		18.09		2.90	7.35	7.4	180	1.53	22.2	2.04	0.37	38.5	8.5	23	11.35	693
W599995		0.26	1.550	91.1	4.61	3470	120	1.07	48.6	1.53	193.0	30.4	62.0	36	9.70	1270
W599996		17.59		0.57	7.57	4.7	580	1.57	3.69	2.01	0.26	33.9	14.8	13	8.75	184.5
W599997		17.92		0.49	7.74	4.1	650	1.76	2.31	2.13	0.40	39.4	7.3	13	8.34	154.5
W599998		9.11		0.36	7.83	4.3	590	1.82	4.02	1.80	0.50	51.2	8.5	14	7.44	235
W599999		13.98		0.70	7.63	5.1	310	1.59	3.13	0.93	1.22	81.8	9.7	21	6.06	80.8
W600000		4.49		0.67	7.93	2.1	230	1.47	4.03	0.99	3.40	81.5	10.2	20	5.92	37.4
R499479		17.23		0.43	6.51	6.2	110	1.55	3.42	1.61	0.12	63.9	17.5	14	7.82	325
R499480		16.89		0.75	7.62	20.5	160	1.41	2.62	1.26	0.20	62.4	10.4	14	9.00	606
R499481		14.04		0.43	7.64	12.1	150	1.42	1.44	1.59	0.16	49.2	16.9	12	11.45	330
R499482		13.44		0.30	8.01	9.8	450	1.77	1.37	1.94	0.12	47.9	9.3	15	12.10	201
R499483		13.55		0.46	8.17	8.3	410	1.44	1.25	2.00	0.15	71.5	14.9	13	12.00	327
R499484		15.53		0.40	7.77	8.1	470	1.58	1.43	2.22	0.10	45.7	13.2	12	11.65	288
R499485		18.72		0.57	7.89	7.3	290	1.42	1.24	1.83	0.15	49.4	8.3	13	10.25	344
R499486		19.50		0.47	7.82	10.0	280	1.50	1.64	2.01	0.16	47.5	7.2	14	10.55	305
R499487		18.35		1.18	7.38	5.8	1040	1.45	30.6	2.41	0.12	46.7	7.6	14	8.65	659
R499488		<0.02		1.91	7.64	6.1	690	1.53	38.3	2.45	0.14	50.9	8.1	16	9.13	678
R499489		18.98		1.28	7.63	5.5	310	1.56	18.75	2.22	0.13	50.5	13.4	13	9.01	298
R499490		16.04		0.42	7.57	3.3	1000	1.37	0.86	2.50	0.09	40.4	9.7	14	9.96	213
R499491		16.73		0.48	7.71	3.5	860	1.47	2.00	2.43	0.11	44.5	9.3	13	8.60	272
R499492		10.45		0.45	7.76	7.6	460	1.42	1.17	2.25	0.13	42.7	7.6	13	8.53	335
R499493		9.75		0.73	7.85	10.6	520	1.59	2.44	2.32	0.20	42.7	8.3	21	10.05	566
R499494		6.19		0.33	7.47	12.4	560	1.54	1.21	2.34	0.13	40.8	10.2	13	12.45	178.5
R499495		7.04		0.48	7.73	7.2	700	1.49	1.03	2.18	0.13	40.8	9.1	16	13.20	320
R499496		7.68		1.70	7.42	19.3	590	1.51	1.98	2.01	0.11	35.7	19.8	182	21.6	660
R499497		5.06		0.01	0.22	<0.2	30	0.14	0.03	34.2	<0.02	1.22	0.9	2	0.09	3.2
R499498		11.35		4.29	7.40	15.2	200	1.26	1.28	1.37	0.26	42.8	8.9	61	13.25	2660
R499499		8.17		2.71	7.35	10.5	220	1.31	1.19	1.78	0.17	33.5	15.0	134	21.8	1480
R499500		11.37		0.51	7.41	15.5	140	1.31	1.87	2.31	0.12	31.1	10.9	18	12.25	407
W599290		10.86		0.88	7.28	31.6	240	1.36	2.60	2.69	0.30	38.8	10.8	13	9.91	265
W599291		7.09		2.77	7.19	79.1	70	1.56	5.38	1.92	1.02	37.9	24.8	14	11.50	346

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224780

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599985		2.36	16.30	0.15	1.6	0.012	3.42	41.5	27.8	0.43	105	2.02	0.08	4.3	4.4	1000
W599986		2.39	17.15	0.15	2.2	0.015	3.41	37.6	38.9	0.38	40	2.14	0.06	4.2	8.1	1080
W599987		2.25	16.50	0.13	2.8	0.017	2.67	34.9	50.5	0.32	33	3.06	0.05	4.2	9.2	1170
W599988		6.07	14.50	0.11	0.9	0.641	3.00	24.9	42.6	0.76	2010	8.51	0.07	6.3	17.2	520
W599989		3.32	17.75	0.13	0.6	0.041	2.19	26.7	41.2	0.23	114	2.61	0.07	5.3	6.3	610
W599990		3.94	16.60	0.13	0.6	0.020	2.91	32.3	38.5	0.50	324	1.01	0.30	4.4	6.3	550
W599991		3.55	16.20	0.12	0.6	0.027	2.42	32.9	27.8	0.84	265	0.82	1.25	5.1	5.7	540
W599992		4.78	16.10	0.13	0.5	0.031	2.38	23.4	29.9	0.76	295	1.46	0.85	4.2	5.3	510
W599993		4.03	15.35	0.12	0.6	0.029	2.61	24.8	31.1	0.97	297	1.56	1.46	4.3	5.2	520
W599994		4.18	14.65	0.11	0.6	0.052	2.41	19.5	24.6	1.25	182	1.49	1.39	4.4	5.7	500
W599995		11.45	11.20	0.13	0.7	4.11	1.95	15.0	30.4	0.53	1860	16.60	0.15	4.3	16.0	370
W599996		3.94	15.50	0.09	0.5	0.053	2.31	16.7	21.8	1.09	201	4.57	1.80	4.7	5.0	520
W599997		3.34	16.70	0.10	0.6	0.046	2.30	20.0	20.2	0.98	175	2.97	1.97	4.1	4.4	510
W599998		3.43	17.00	0.12	0.7	0.037	2.22	27.2	20.1	0.97	191	3.34	1.59	3.1	5.5	550
W599999		4.05	17.45	0.15	3.6	0.015	3.50	42.3	18.3	0.69	201	3.14	0.15	3.5	10.4	1470
W600000		4.59	17.70	0.15	3.7	0.022	3.57	41.8	18.0	0.69	244	3.88	0.16	3.6	11.4	1510
R499479		4.54	15.40	0.14	0.5	0.022	2.61	31.9	22.7	1.27	169	2.03	0.68	2.6	6.0	460
R499480		4.32	17.60	0.14	0.6	0.045	3.93	31.0	21.3	1.03	108	3.79	0.87	3.6	4.8	510
R499481		4.46	17.15	0.12	0.5	0.025	2.76	24.5	26.6	1.34	125	5.99	2.19	3.7	5.1	520
R499482		3.16	16.05	0.14	0.5	0.027	3.24	24.8	21.1	0.95	115	4.52	1.85	4.4	4.6	570
R499483		3.91	16.90	0.15	0.6	0.038	2.58	38.2	21.3	1.12	120	3.26	2.33	4.0	4.5	850
R499484		4.12	17.05	0.12	0.6	0.038	2.09	22.2	23.0	1.17	134	5.32	2.56	4.7	3.9	490
R499485		4.08	15.65	0.13	0.5	0.051	2.88	25.7	21.0	1.05	141	2.86	2.43	4.3	4.0	510
R499486		3.67	15.20	0.14	0.5	0.026	2.94	23.9	20.0	1.05	144	2.99	2.15	4.0	4.0	510
R499487		3.46	16.50	0.14	0.5	0.093	2.36	24.3	20.3	1.05	182	3.38	1.99	4.5	4.7	530
R499488		3.77	16.80	0.13	0.5	0.099	2.42	26.2	20.4	1.07	193	2.59	2.01	4.6	5.0	540
R499489		4.43	16.55	0.12	0.6	0.098	2.44	26.1	21.4	1.17	261	4.31	1.92	4.2	5.5	520
R499490		3.86	15.90	0.10	0.6	0.066	2.38	20.4	23.6	1.22	259	2.45	1.91	4.7	5.2	520
R499491		3.63	15.95	0.12	0.5	0.085	2.43	23.2	21.1	1.17	272	2.07	1.94	3.6	5.2	530
R499492		3.33	15.25	0.12	0.5	0.032	3.21	22.2	20.0	1.09	169	1.98	1.68	3.0	5.0	530
R499493		3.35	15.85	0.13	0.7	0.034	3.20	21.1	23.4	1.16	134	1.99	1.76	4.2	6.2	560
R499494		3.71	15.35	0.11	0.6	0.028	2.23	20.7	25.5	1.24	153	1.17	1.86	4.2	5.5	550
R499495		3.95	16.15	0.12	0.6	0.042	2.24	21.1	20.7	1.14	155	1.74	2.30	4.6	6.0	570
R499496		5.55	19.20	0.11	1.7	0.091	2.83	17.8	31.4	2.76	199	3.87	1.46	5.2	63.6	690
R499497		0.17	0.72	0.06	0.1	<0.005	0.10	1.2	1.4	1.81	100	0.06	0.10	0.5	0.7	60
R499498		4.19	16.65	0.11	1.6	0.084	4.45	21.6	22.5	1.55	120	2.06	0.84	3.3	21.0	680
R499499		5.81	18.95	0.10	1.6	0.057	3.58	16.8	27.6	2.29	168	3.98	1.27	4.6	45.1	680
R499500		4.53	16.50	0.10	0.6	0.022	2.45	15.0	20.8	0.92	138	3.22	1.31	3.4	6.5	550
W599290		4.27	16.45	0.10	0.5	0.052	2.42	19.3	23.7	0.88	219	2.64	0.56	3.3	6.5	560
W599291		6.48	16.30	0.12	0.5	0.081	3.25	18.8	55.4	0.89	379	5.85	0.07	2.6	6.9	520

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224780

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599985		22.2	217	<0.002	2.00	9.20	5.6	2	3.5	68.4	0.32	0.12	11.35	0.136	2.61	4.3
W599986		8.6	219	<0.002	2.25	6.86	5.9	1	3.2	52.0	0.33	0.18	11.00	0.140	2.77	8.0
W599987		10.9	181.0	<0.002	2.19	26.4	7.2	2	3.3	39.6	0.34	0.14	11.45	0.160	2.57	7.5
W599988		1790	170.5	0.002	3.57	46.6	9.6	1	6.0	80.5	0.50	0.21	11.70	0.217	2.57	4.3
W599989		11.0	115.5	<0.002	2.84	7.87	12.5	1	9.4	62.7	0.47	0.55	14.10	0.236	1.81	5.2
W599990		13.5	170.5	0.003	3.20	4.18	12.6	1	7.0	101.0	0.38	0.31	15.65	0.189	2.46	6.9
W599991		9.4	132.5	0.005	2.28	11.60	12.5	1	5.1	261	0.47	0.18	12.95	0.227	2.16	4.5
W599992		20.1	127.5	<0.002	4.34	59.3	11.1	2	6.2	190.5	0.49	0.42	12.20	0.178	1.88	3.6
W599993		8.7	137.5	<0.002	2.96	1.32	11.2	1	3.7	310	0.50	0.18	12.75	0.186	2.30	4.0
W599994		30.2	143.0	<0.002	3.42	2.50	11.9	2	3.1	275	0.45	0.36	10.70	0.180	2.40	2.9
W599995		9050	116.0	0.002	>10.0	234	7.2	2	10.1	90.1	0.33	1.89	7.27	0.146	1.72	4.3
W599996		12.8	119.0	<0.002	2.71	1.12	11.3	1	4.0	270	0.38	0.52	11.40	0.201	2.01	2.6
W599997		17.3	138.0	<0.002	2.61	3.51	11.9	1	3.5	251	0.32	0.53	13.65	0.165	2.09	2.8
W599998		7.3	137.0	<0.002	2.76	2.69	11.1	1	3.8	220	0.26	1.60	14.45	0.146	2.06	2.6
W599999		87.6	175.5	<0.002	4.05	1.86	6.2	2	9.0	53.5	0.20	1.24	10.20	0.135	1.79	3.7
W600000		129.5	172.0	<0.002	4.54	1.13	6.1	2	9.6	54.3	0.21	1.73	10.15	0.137	1.75	3.8
R499479		5.4	147.0	<0.002	4.03	1.38	9.1	2	3.9	140.5	0.20	1.28	12.00	0.124	2.23	2.3
R499480		10.4	173.5	<0.002	3.91	1.82	11.3	2	9.3	198.5	0.32	0.44	14.90	0.156	2.59	4.1
R499481		8.8	126.5	<0.002	3.81	0.80	12.6	1	4.4	362	0.30	0.22	11.30	0.171	2.14	3.1
R499482		7.0	138.5	<0.002	2.39	1.07	11.2	1	3.8	354	0.36	0.27	12.70	0.189	2.38	3.2
R499483		7.5	130.0	<0.002	3.05	0.82	12.2	1	5.0	311	0.35	0.15	14.40	0.173	2.33	3.0
R499484		6.0	112.0	<0.002	3.24	0.81	10.8	1	4.2	323	0.48	0.24	16.45	0.175	2.11	3.5
R499485		10.3	127.0	<0.002	3.15	1.29	11.1	2	4.2	376	0.37	0.15	16.95	0.172	2.25	3.8
R499486		9.1	139.5	<0.002	2.84	0.66	10.7	1	4.1	399	0.33	0.18	12.75	0.173	2.43	4.1
R499487		8.0	112.0	<0.002	1.94	0.73	11.3	1	4.7	392	0.38	17.20	10.35	0.213	2.09	2.6
R499488		8.3	115.0	<0.002	2.17	0.72	11.8	1	4.8	399	0.39	22.6	11.45	0.215	2.17	2.9
R499489		14.2	138.0	<0.002	3.22	1.00	11.4	2	4.3	297	0.36	0.49	12.00	0.205	2.05	3.1
R499490		8.3	105.5	<0.002	1.90	1.03	11.2	1	4.4	350	0.39	0.11	10.55	0.232	1.89	2.5
R499491		8.7	133.0	<0.002	2.18	1.70	11.6	1	4.1	338	0.32	0.52	11.50	0.209	2.12	2.7
R499492		8.4	149.0	<0.002	2.42	2.33	11.1	2	5.7	309	0.26	0.16	11.05	0.160	2.49	2.7
R499493		10.3	142.5	<0.002	2.61	2.15	13.2	1	5.1	344	0.43	0.92	10.85	0.187	2.53	3.7
R499494		11.5	105.0	<0.002	2.62	0.89	11.5	1	4.5	378	0.35	0.24	10.00	0.199	1.99	2.6
R499495		13.0	103.5	<0.002	2.71	0.77	11.6	1	4.2	449	0.40	0.13	11.85	0.219	2.03	3.5
R499496		5.0	150.5	<0.002	3.28	0.70	16.4	2	6.2	415	0.42	0.76	7.28	0.274	4.11	4.2
R499497		0.5	3.1	<0.002	0.02	0.08	0.2	2	<0.2	87.6	0.06	<0.05	0.18	0.006	0.03	0.3
R499498		8.9	195.5	<0.002	3.23	0.93	9.0	2	6.3	261	0.32	0.20	9.85	0.160	3.22	8.1
R499499		5.9	176.5	<0.002	3.69	0.68	13.1	2	6.4	377	0.39	0.31	8.07	0.237	3.97	4.9
R499500		8.6	125.0	<0.002	3.96	5.19	11.9	2	5.0	279	0.28	0.36	9.20	0.174	2.41	2.9
W599290		15.4	127.0	<0.002	4.01	18.25	11.8	2	4.5	168.5	0.26	0.23	9.14	0.171	1.98	3.0
W599291		91.2	213	0.002	6.60	33.3	11.6	3	5.6	64.8	0.22	0.49	9.68	0.134	2.56	2.2

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224780

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599985		42	19.5	18.0	73	47.6	0.010
W599986		44	8.1	21.4	30	71.9	0.008
W599987		59	8.9	22.5	37	108.5	0.013
W599988		64	5.5	11.8	2870	27.9	0.622
W599989		97	10.3	21.1	73	14.6	0.047
W599990		87	13.1	23.8	73	12.8	0.025
W599991		88	5.6	22.9	60	12.3	0.033
W599992		81	6.7	18.6	66	11.3	0.046
W599993		81	5.1	18.6	43	12.2	0.012
W599994		84	6.3	13.3	41	12.1	0.035
W599995		48	4.2	9.8	>10000	21.6	3.18
W599996		90	7.0	12.6	42	10.7	0.023
W599997		84	5.1	11.9	45	13.0	0.016
W599998		80	5.5	12.9	38	21.4	0.018
W599999		63	19.4	15.9	96	154.5	0.005
W600000		60	21.3	15.9	282	157.5	0.006
R499479		97	6.4	10.7	25	14.6	0.030
R499480		83	10.4	11.9	24	13.9	0.061
R499481		77	4.6	14.7	24	12.4	0.040
R499482		71	5.1	11.4	28	13.4	0.030
R499483		52	6.9	13.0	27	15.2	0.036
R499484		72	5.0	11.7	27	15.1	0.033
R499485		69	6.3	14.0	24	12.5	0.036
R499486		72	6.5	14.1	26	12.7	0.029
R499487		83	3.8	13.7	26	11.3	0.076
R499488		84	3.7	14.2	27	12.2	0.078
R499489		82	5.0	11.2	29	14.1	0.034
R499490		84	3.3	12.5	32	12.5	0.041
R499491		84	2.5	11.0	33	11.4	0.038
R499492		81	8.4	10.9	22	11.6	0.022
R499493		91	8.7	14.3	19	14.8	0.035
R499494		83	5.3	13.9	21	13.6	0.020
R499495		89	5.7	14.0	23	14.6	0.024
R499496		119	5.0	10.9	32	53.3	0.063
R499497		1	0.1	2.4	4	2.9	<0.005
R499498		75	9.1	10.1	29	49.1	0.204
R499499		103	8.0	10.4	28	51.9	0.136
R499500		88	9.6	10.2	19	17.2	0.034
W599290		86	9.0	8.9	35	12.1	0.020
W599291		81	10.2	8.1	89	10.7	0.266

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CERTIFICATE OF ANALYSIS WH20224780

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224788

Project: Klaza

P.O. No.: Batch 22

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224788

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
B700701		2.00					6.25	5.51	1770	260	1.32	4.57	2.10	6.73	38.4	7.3
B700702		1.95					5.95	7.07	185.5	260	1.36	4.78	1.90	1.02	44.1	12.0
B700703		2.22		235			>100	1.19	3780	30	0.33	131.5	0.58	43.6	6.25	42.2
B700704		3.10					2.59	7.34	163.5	750	1.79	1.45	2.69	2.09	58.3	10.1
B700705		3.82					24.9	5.99	4000	140	1.27	4.83	1.51	133.5	34.6	10.1
B700706		5.08					0.31	0.15	34.0	50	0.10	0.24	35.0	1.08	1.48	1.0
B700707		3.33					1.79	6.59	664	340	1.30	0.72	2.33	2.04	44.9	9.2
B700708		1.99					11.55	6.52	462	140	1.32	4.11	1.49	12.35	33.8	23.4
B700709		2.29		95		4.53	>100	3.94	7260	60	0.86	67.9	1.04	682	19.50	8.3
B700710		3.96					24.6	6.38	1840	200	1.35	4.00	2.16	61.2	34.3	7.6
B700711		1.71		186	3.63		>100	5.06	1910	200	1.23	38.8	3.35	85.4	30.0	19.0
B700712		1.62		197	4.43	1.280	>100	6.58	868	670	1.56	0.72	4.87	204	33.4	14.2
B700713		0.92		144	3.28	1.270	>100	6.82	1140	710	1.56	0.48	4.99	208	35.1	14.4
B700714		1.97				2.60	31.8	5.19	666	110	1.35	8.80	4.00	247	26.3	15.7
B700715		2.18				1.065	21.0	7.26	3670	270	1.67	5.22	3.05	119.5	44.0	14.8
B700716		1.89					4.42	7.28	7110	610	1.46	5.26	4.02	5.14	41.3	13.3
B700717		1.93					19.80	7.17	254	240	1.14	26.4	4.86	39.1	37.3	14.8
B700718		2.22					0.74	6.77	91.4	100	1.65	1.29	2.11	1.24	44.6	71.2
B700719		1.53					2.18	6.11	159.5	430	1.73	1.15	2.42	4.21	43.3	36.0
B700720		0.26	12.10	259	1.515	2.60	>100	3.34	>10000	30	1.03	136.0	2.28	408	24.2	12.4
B700721		2.02				1.355	6.69	6.65	548	510	1.66	0.52	2.26	172.0	53.1	7.7
B700722		2.24					13.20	6.54	354	120	1.67	17.10	2.26	3.79	47.9	7.2
B700723		1.68			1.765		78.5	5.96	4440	310	1.58	9.21	0.99	158.5	42.8	6.8
B700724		2.22					65.9	5.30	497	160	1.29	5.08	1.69	96.8	48.3	11.0
B700725		1.79		256			>100	4.72	996	40	1.19	169.0	1.53	27.9	30.9	15.2
B700726		2.15					5.84	3.41	926	290	0.96	0.88	0.97	27.6	26.8	5.4
B700727		<0.02					5.88	3.45	978	300	0.98	0.81	0.98	28.6	28.7	5.3
B700728		1.47					10.45	6.11	365	160	1.36	10.85	1.98	6.96	40.0	9.2
B700729		2.12		185			>100	2.96	4210	410	0.71	48.6	0.59	95.8	15.65	7.3
B700730		2.06					8.96	5.87	245	160	1.50	7.91	1.86	12.80	50.0	9.2
B700731		2.22					22.3	5.03	3480	50	1.37	11.15	1.41	36.0	29.4	7.4
B700732		2.63					37.1	4.47	3000	50	1.08	45.0	1.26	16.80	27.5	14.1
B700733		2.23					53.0	5.06	1820	100	1.18	18.30	1.79	21.3	31.0	12.7
B700734		0.26					10.45	6.62	1970	240	1.65	6.70	1.76	37.8	49.9	11.9
B700735		1.81					9.50	6.13	350	340	1.44	4.35	2.19	9.48	46.5	6.7
B700736		3.37					35.5	4.85	6340	50	1.09	25.2	1.15	26.7	36.7	36.3
B700737		2.27		127	3.39		>100	5.88	1030	440	1.46	2.23	1.02	26.9	41.1	4.6
B700738		3.95					35.0	3.15	975	270	0.55	5.51	0.39	2.71	35.1	682
B700739		2.99					2.09	6.35	382	180	1.49	3.07	1.23	2.04	41.0	146.0
B700740		1.79					20.8	4.26	1220	240	1.09	9.90	1.76	19.30	33.5	35.0

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224788

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
B700701		11	11.80	85.3	4.80	11.70	0.10	0.5	0.134	2.57	21.1	26.0	0.74	3870	2.49	0.02
B700702		12	12.60	428	4.56	14.10	0.11	0.6	0.218	3.31	23.1	22.8	0.73	1400	6.19	0.07
B700703		11	2.80	6570	20.4	3.58	0.13	0.1	2.85	0.57	2.8	14.6	0.17	1560	2.03	0.01
B700704		17	32.1	41.6	4.21	16.45	0.10	2.8	0.059	2.96	28.9	31.1	1.06	2360	2.26	0.03
B700705		10	14.10	243	5.02	15.05	0.09	0.6	1.125	2.79	17.2	19.7	0.55	1410	8.52	0.03
B700706		2	0.25	7.3	0.18	0.42	<0.05	0.1	0.013	0.05	1.4	1.2	1.40	108	0.21	0.03
B700707		10	17.15	53.6	3.18	13.95	0.09	0.6	0.106	2.72	23.6	70.7	0.72	1590	0.78	0.04
B700708		11	9.12	724	5.79	14.05	0.10	0.6	0.457	3.24	18.2	9.4	0.55	1900	6.68	0.03
B700709		12	5.06	3690	9.54	9.98	0.09	0.3	3.06	1.94	10.0	16.9	0.39	2210	19.60	0.02
B700710		11	12.75	488	4.07	12.85	0.09	0.6	0.955	3.09	18.6	40.7	0.79	1460	9.11	0.03
B700711		17	16.45	1040	12.50	13.15	0.08	0.5	0.728	1.69	14.0	17.6	1.21	2300	1.70	0.53
B700712		14	25.0	80.1	4.84	15.85	0.07	0.5	0.445	1.88	16.4	36.5	1.85	2290	2.09	0.85
B700713		14	25.4	73.8	5.04	16.15	0.09	0.5	0.323	1.87	16.3	33.9	1.87	2200	1.83	0.96
B700714		16	41.6	306	8.23	12.55	0.06	0.5	19.60	1.60	12.1	49.8	1.57	2740	4.53	0.05
B700715		16	26.1	252	6.54	18.70	0.09	0.6	5.39	2.65	21.1	116.0	1.39	1770	3.94	0.15
B700716		19	21.7	42.4	7.32	17.45	0.09	0.6	0.237	2.06	18.7	14.5	1.56	1660	2.14	1.38
B700717		22	28.9	275	5.46	17.25	0.09	0.5	2.80	2.09	17.6	37.3	2.09	2130	2.18	0.06
B700718		11	9.25	75.2	5.14	15.50	0.10	0.7	0.052	3.22	21.3	29.6	0.60	785	2.35	0.74
B700719		7	28.9	88.6	3.85	14.10	0.08	0.6	0.064	2.59	21.7	52.4	0.58	614	5.78	0.19
B700720		33	9.18	2900	11.15	9.03	0.08	0.6	12.65	1.54	11.7	27.4	0.94	4060	25.3	0.02
B700721		10	16.60	71.2	3.76	15.00	0.10	0.9	2.18	3.15	27.3	50.1	0.77	1460	3.29	0.05
B700722		11	17.50	107.0	5.81	15.25	0.10	0.7	0.208	2.98	24.5	24.7	0.74	2160	1.29	0.03
B700723		12	13.90	329	4.45	14.05	0.09	0.6	0.953	2.75	21.7	46.5	0.44	701	2.97	0.03
B700724		14	10.85	1820	5.86	11.65	0.08	0.7	0.248	2.37	24.7	34.8	0.58	1330	2.12	0.02
B700725		15	9.37	8420	11.20	10.20	0.08	0.5	1.250	2.12	15.7	34.0	0.54	1790	2.68	0.02
B700726		23	7.89	136.5	3.04	8.04	0.05	0.4	0.314	1.52	14.3	42.9	0.36	4140	2.25	0.02
B700727		19	8.32	128.0	3.07	8.42	0.06	0.4	0.307	1.52	15.0	44.7	0.36	4220	2.62	0.02
B700728		14	9.99	154.5	5.16	13.45	0.07	0.6	0.216	2.91	19.8	14.6	0.68	2590	4.26	0.02
B700729		14	4.04	5200	15.50	7.46	0.08	0.3	2.06	1.41	7.9	26.3	0.26	2060	12.55	0.01
B700730		14	19.00	106.5	4.80	14.10	0.09	1.9	0.206	2.47	26.0	43.5	0.71	1100	3.46	0.03
B700731		11	10.65	567	10.35	12.15	0.08	0.5	0.876	2.60	14.0	23.0	0.44	5890	9.67	0.03
B700732		12	6.92	1020	11.90	10.80	0.09	0.5	1.030	2.23	13.7	14.9	0.47	1900	2.83	0.02
B700733		14	9.08	2040	10.50	12.30	0.08	0.5	1.080	2.58	15.7	9.8	0.59	1200	2.30	0.11
B700734		28	16.35	201	6.11	15.70	0.08	1.1	0.704	2.94	25.9	42.1	0.76	2070	8.97	0.07
B700735		9	16.95	525	5.06	13.55	0.09	0.6	0.376	2.95	23.8	27.1	0.70	1810	30.1	0.03
B700736		13	9.89	398	10.20	11.05	0.08	0.7	1.020	2.40	18.4	10.2	0.46	2250	1.56	0.02
B700737		11	12.25	88.1	4.13	12.80	0.08	0.8	0.300	2.82	21.3	14.7	0.40	1500	3.97	0.03
B700738		8	6.66	2040	29.4	9.20	0.13	0.6	0.371	1.54	17.5	6.6	0.15	250	4.14	0.02
B700739		8	18.70	49.4	5.55	14.80	0.07	1.1	0.184	2.92	20.3	15.3	0.41	1160	1.57	0.04
B700740		12	7.52	384	6.18	10.20	0.07	0.6	0.775	2.09	17.5	25.5	0.41	1470	3.80	0.02

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
B700701		5.4	2.7	400	223	145.0	0.002	3.76	50.2	7.2	<1	3.6	36.4	0.44	0.19	10.05
B700702		6.6	2.6	530	112.0	163.0	0.005	3.32	43.8	9.0	<1	3.5	83.0	0.48	0.17	10.45
B700703		0.8	3.4	60	3290	34.3	0.002	>10.0	574	2.0	2	6.1	9.6	0.06	1.89	1.12
B700704		9.2	5.3	1010	163.5	130.0	0.002	2.31	14.85	8.3	1	2.4	735	0.60	0.19	10.20
B700705		3.9	2.7	470	3990	165.0	0.007	4.66	57.8	7.3	1	8.4	76.3	0.29	0.25	9.56
B700706		0.2	0.3	80	36.9	2.3	<0.002	0.05	0.80	0.2	2	0.2	89.7	<0.05	<0.05	0.17
B700707		6.6	2.5	500	121.0	136.5	<0.002	1.91	22.7	8.3	1	11.5	105.0	0.53	0.17	13.35
B700708		6.5	3.1	480	1080	197.0	0.006	5.31	108.0	8.6	1	6.3	32.5	0.53	0.38	12.75
B700709		3.3	2.7	270	5160	122.0	0.016	>10.0	748	5.0	2	11.4	19.3	0.27	0.21	7.01
B700710		7.0	2.3	440	3430	179.5	0.008	2.95	112.0	7.2	<1	4.3	100.0	0.60	0.06	15.45
B700711		3.6	11.9	800	>10000	82.6	<0.002	>10.0	345	12.7	1	4.8	316	0.23	0.33	3.17
B700712		5.0	3.7	780	>10000	98.7	<0.002	2.18	174.5	14.9	<1	2.4	403	0.32	<0.05	4.06
B700713		5.0	4.0	820	>10000	95.7	<0.002	2.06	138.5	15.1	<1	2.6	435	0.32	<0.05	4.13
B700714		3.7	3.7	590	8070	86.7	<0.002	6.57	69.6	12.1	<1	3.3	199.0	0.23	0.07	2.78
B700715		5.5	4.2	1050	5170	136.5	0.005	4.04	63.5	16.6	<1	4.7	215	0.33	<0.05	5.16
B700716		5.5	3.6	1070	340	75.5	<0.002	3.12	20.7	15.5	<1	1.9	547	0.34	0.06	4.59
B700717		5.1	7.3	1110	2930	112.0	<0.002	2.43	93.4	16.3	<1	3.1	239	0.28	0.05	3.33
B700718		5.6	3.7	510	65.0	143.0	0.002	4.33	21.7	8.9	1	1.9	198.0	0.40	0.62	11.85
B700719		6.5	3.1	470	379	106.5	<0.002	2.39	15.85	7.8	<1	7.2	161.5	0.51	0.15	11.25
B700720		3.5	13.9	260	>10000	88.2	0.002	9.84	627	4.9	1	15.5	80.1	0.26	0.80	5.90
B700721		7.3	2.4	500	1285	173.5	0.005	2.50	19.50	9.1	<1	2.1	115.0	0.60	0.05	13.40
B700722		6.9	2.8	520	597	167.0	<0.002	5.01	34.3	9.2	<1	4.2	91.5	0.50	0.51	10.80
B700723		6.3	2.5	440	>10000	158.5	<0.002	4.33	128.5	8.3	<1	6.5	81.7	0.49	0.21	10.50
B700724		3.5	3.0	360	8600	125.0	<0.002	5.53	256	6.7	<1	6.3	80.6	0.30	0.09	9.93
B700725		4.8	2.0	360	1610	115.5	<0.002	>10.0	520	6.2	1	5.4	66.7	0.38	2.20	8.62
B700726		3.6	2.5	260	624	80.7	<0.002	2.11	74.4	5.0	<1	2.1	62.8	0.28	<0.05	6.81
B700727		3.9	1.9	260	622	84.9	<0.002	2.14	76.7	5.3	<1	1.8	66.2	0.28	0.05	7.10
B700728		6.2	2.8	470	729	174.5	<0.002	4.09	60.0	8.1	<1	3.5	87.4	0.48	0.14	11.25
B700729		1.8	2.8	210	6190	79.8	0.003	>10.0	1575	4.1	<1	12.9	34.4	0.15	0.28	4.55
B700730		7.2	5.4	720	521	133.0	<0.002	3.56	31.1	7.2	<1	4.3	354	0.52	0.13	9.18
B700731		5.4	2.3	430	1105	130.5	<0.002	9.66	140.5	7.6	<1	8.8	294	0.40	0.08	7.40
B700732		4.8	3.0	360	1390	122.0	<0.002	>10.0	181.5	6.5	<1	6.7	45.5	0.35	0.50	7.20
B700733		5.2	2.2	390	1140	152.5	<0.002	>10.0	248	6.9	<1	8.5	91.6	0.41	0.42	8.28
B700734		6.7	18.0	540	1835	170.0	<0.002	3.52	49.9	9.7	<1	6.4	81.4	0.51	0.25	11.70
B700735		6.0	2.6	510	411	172.0	0.018	4.21	105.5	8.3	<1	6.5	113.0	0.46	0.06	9.89
B700736		5.1	3.3	360	1945	145.5	<0.002	>10.0	129.5	6.6	1	6.6	24.6	0.39	0.75	8.27
B700737		6.1	2.7	420	>10000	154.0	<0.002	3.93	125.5	7.9	<1	3.4	40.1	0.49	0.05	10.55
B700738		1.9	17.8	30	146.0	86.7	0.003	>10.0	216	2.2	6	7.6	42.0	0.22	5.43	2.33
B700739		6.0	5.0	330	141.0	178.0	<0.002	5.21	11.80	6.4	<1	6.6	115.5	0.52	0.77	9.76
B700740		4.2	2.7	310	1800	127.5	<0.002	6.14	147.5	5.3	<1	5.0	50.7	0.35	0.24	7.21

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224788

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
B700701		0.168	2.42	5.2	46	2.0	10.9	453	17.2	1.490	
B700702		0.219	2.36	3.5	59	2.1	12.9	123	18.8	0.138	
B700703		0.028	0.67	1.0	15	0.7	2.5	3230	2.6	4.50	
B700704		0.304	2.89	4.7	73	2.5	14.2	178	115.0	0.163	
B700705		0.147	2.53	2.7	62	2.2	11.8	9520	18.3	2.37	
B700706		0.006	0.03	0.2	2	0.1	2.2	86	2.2	0.021	
B700707		0.211	2.15	3.7	58	1.5	14.2	166	20.5	0.245	
B700708		0.189	2.66	3.0	62	2.6	9.7	1030	17.3	0.788	
B700709		0.107	1.83	1.9	36	1.4	5.4	>10000	7.7	2.32	
B700710		0.179	2.53	5.8	47	1.5	11.2	4650	17.4	0.512	
B700711		0.282	1.64	1.5	104	1.7	11.8	5100	12.3	1.770	
B700712		0.373	1.52	2.4	126	2.5	15.8	>10000	10.7	0.164	
B700713		0.389	1.46	2.0	132	2.2	15.9	>10000	9.6	0.200	
B700714		0.310	1.62	4.7	110	2.7	14.1	>10000	10.1	1.035	
B700715		0.405	2.27	2.2	151	2.2	15.6	>10000	12.7	0.465	
B700716		0.412	1.33	1.8	154	1.0	16.4	559	12.1	0.924	
B700717		0.403	2.06	1.2	149	2.1	15.6	3630	12.8	0.825	
B700718		0.166	2.06	3.6	55	1.9	13.3	104	20.0	0.063	
B700719		0.181	1.95	5.8	52	2.3	11.2	302	18.9	0.448	
B700720		0.106	1.66	8.0	34	4.0	7.2	>10000	19.1	>10.0	1.170
B700721		0.199	2.85	6.0	56	2.8	15.3	>10000	25.3	0.312	
B700722		0.207	2.94	7.0	63	2.9	15.7	298	18.3	0.426	
B700723		0.189	2.74	8.6	56	4.1	12.0	9410	19.4	1.630	
B700724		0.117	2.63	2.9	44	7.0	10.5	5970	18.4	0.759	
B700725		0.141	2.10	3.5	42	2.1	9.8	1930	14.2	2.59	
B700726		0.103	1.64	3.5	36	1.8	7.5	2030	11.0	0.828	
B700727		0.104	1.67	3.4	37	1.8	7.7	2060	10.9	0.824	
B700728		0.180	3.06	4.2	55	2.4	12.8	620	16.6	0.305	
B700729		0.064	1.41	2.9	31	1.7	4.7	6160	7.8	2.42	
B700730		0.212	2.49	3.7	55	2.1	10.9	823	68.9	0.537	
B700731		0.167	2.41	6.0	50	3.4	10.7	2640	14.7	4.49	
B700732		0.137	2.00	3.6	44	2.3	8.8	1330	13.3	2.09	
B700733		0.148	2.28	3.5	46	3.2	9.6	1370	13.4	1.855	
B700734		0.206	2.77	4.6	65	5.4	12.2	2920	29.8	0.614	
B700735		0.184	2.66	3.5	55	2.8	12.9	752	17.3	1.270	
B700736		0.143	2.36	1.8	43	2.7	8.0	1710	18.9	6.28	
B700737		0.175	3.04	4.2	47	4.1	9.5	1530	22.8	0.828	
B700738		0.025	1.64	1.5	33	1.1	4.9	181	16.7	0.966	
B700739		0.133	2.44	5.3	42	2.6	10.9	188	30.2	0.283	
B700740		0.112	1.84	4.1	36	3.3	7.8	1810	18.2	0.635	

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224788

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62

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Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224797

Project: Klaza

P.O. No.: Batch 40

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20224797

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596337		8.07		0.27	7.31	32.8	110	1.17	2.27	1.41	0.16	37.6	18.8	14	8.73	107.5
W596338		10.63		0.91	7.08	35.4	80	1.24	1.60	2.15	0.97	38.9	12.5	17	9.15	212
W596339		4.12		0.51	7.16	14.2	80	1.34	1.52	2.07	0.47	40.3	12.4	14	8.75	193.5
W596340		9.71		0.36	7.56	30.8	160	1.33	1.29	1.51	0.40	42.9	11.9	18	7.91	110.5
W596341		9.92		0.47	7.34	11.4	250	1.39	1.19	2.29	0.48	45.9	12.9	15	8.90	226
W596342		11.39		0.34	7.34	13.6	150	1.41	0.70	2.13	0.14	40.3	11.5	16	9.71	260
W596343		12.28		0.24	7.25	10.0	250	1.32	0.60	1.97	0.14	41.8	19.8	16	12.35	208
W596344		12.31		0.42	7.75	20.3	60	1.29	1.81	1.76	0.14	43.3	32.4	16	12.30	231
W596345		11.19		0.75	7.76	23.6	70	1.31	1.24	2.71	0.13	41.8	29.1	13	10.70	811
W596346		12.69		0.30	6.95	11.7	160	1.32	0.97	2.45	0.11	33.7	12.2	18	12.95	219
W596347		10.97		0.46	7.06	17.9	290	1.22	0.64	2.51	0.10	33.5	19.4	14	11.30	458
W596348		11.23		0.51	7.32	22.4	350	1.38	0.75	2.42	0.09	34.7	16.8	15	10.65	450
W596349		11.99		0.54	7.61	59.7	470	1.12	1.20	2.36	0.19	40.1	19.5	13	8.81	403
W596350		12.22		0.68	7.49	79.9	180	1.18	2.00	1.52	0.40	42.3	39.2	14	8.28	295
W596601		8.44		1.09	8.05	50.1	130	1.15	4.29	1.52	0.19	33.7	31.1	15	10.10	814
W596602		0.26		10.85	6.69	1970	210	1.57	5.74	1.77	38.7	47.1	12.2	29	18.10	198.5
W596603		9.41		0.27	7.33	29.2	100	1.35	0.95	1.77	0.09	31.7	14.1	34	9.63	205
W596604		9.76		0.26	7.62	30.6	210	1.36	0.72	1.72	0.06	36.0	14.1	16	7.80	253
W596605		9.29		0.99	7.37	48.1	170	1.49	1.35	1.54	4.98	34.2	10.9	17	7.81	207
W596606		0.26	1.485	93.8	4.59	3990	420	1.05	54.5	1.52	198.0	30.5	62.8	34	10.00	1260
W596607		10.87		1.73	7.40	44.4	260	1.60	1.10	2.07	1.09	36.8	10.5	16	9.47	262
W596608		9.49		0.32	7.49	27.2	270	1.39	0.85	1.76	0.17	40.0	9.0	17	8.76	261
W596609		<0.02		0.33	7.64	29.1	260	1.55	0.91	1.81	0.18	43.6	9.2	17	9.07	256
W596610		3.84		0.25	6.78	19.3	120	1.37	1.71	2.91	0.06	33.5	16.1	56	8.85	216
W596611		10.09		0.33	6.43	9.1	310	1.20	1.49	1.57	0.11	35.1	37.6	17	12.50	204
W596612		10.86		0.23	7.37	11.7	230	1.59	0.67	1.86	0.16	43.5	14.0	17	15.90	199.5
W596613		11.79		0.16	7.35	5.3	170	1.51	0.79	2.00	0.09	40.2	16.9	17	12.15	131.5
W596614		11.96		0.28	7.56	10.0	120	1.44	0.91	1.82	0.11	42.9	15.3	15	16.30	295
W596615		11.03		0.36	7.49	9.6	150	1.42	0.77	2.29	0.21	42.1	20.1	14	16.35	389
W596616		7.46		0.69	7.65	6.9	350	1.46	0.92	2.43	0.26	39.8	14.3	16	14.10	606
W596617		9.39		0.28	7.16	16.9	170	1.32	1.23	2.72	0.19	36.6	13.6	11	12.40	314
W596618		6.69		0.33	7.47	26.2	590	1.39	0.61	2.50	0.16	40.3	13.8	14	9.24	399
W596619		2.39		17.05	6.55	140.0	180	1.26	9.39	1.99	16.85	37.7	15.6	13	11.35	596
W596620		5.10		0.01	0.19	1.4	20	0.11	0.06	34.6	0.02	1.23	0.9	1	0.07	8.4
W596621		7.90		0.92	6.82	18.5	250	1.30	1.18	2.74	0.22	35.2	17.3	11	14.65	943
W596622		9.28		0.44	7.24	9.7	90	1.30	1.67	3.04	0.14	23.8	45.1	13	12.75	455
W596623		10.52		1.12	7.83	10.6	100	1.45	1.48	2.35	0.16	33.1	52.9	12	12.20	1070
W596624		10.05		2.63	8.18	18.0	100	1.52	2.15	2.33	0.38	29.3	52.4	13	13.45	1730
W596625		10.11		0.57	7.28	10.5	230	1.47	1.31	3.00	0.12	43.1	18.3	13	11.50	512
W596626		9.93		0.56	8.02	8.5	250	1.49	1.82	2.64	0.15	44.6	20.0	13	16.40	353

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CERTIFICATE OF ANALYSIS WH20224797

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596337		5.23	15.85	0.10	0.6	0.010	3.03	18.5	22.5	0.65	91	5.50	0.10	2.6	5.6	540
W596338		5.09	14.95	0.10	0.6	0.027	2.83	18.8	22.7	0.96	166	6.17	0.80	2.9	5.2	510
W596339		4.88	14.80	0.10	0.6	0.022	2.74	19.5	21.4	0.90	150	10.85	0.85	2.7	4.7	520
W596340		4.78	15.10	0.09	0.6	0.020	2.78	21.9	24.9	0.76	157	12.80	0.06	2.4	4.8	550
W596341		3.91	15.90	0.08	0.6	0.036	2.42	23.3	21.5	0.97	269	4.57	1.19	2.8	5.0	540
W596342		4.40	14.55	0.09	0.6	0.012	2.38	20.6	24.1	1.06	110	4.54	1.47	2.9	4.5	530
W596343		3.82	14.80	0.06	0.5	0.015	2.56	23.9	23.8	0.98	90	7.54	1.57	3.5	6.1	520
W596344		8.01	16.00	0.08	0.5	0.027	3.29	23.1	27.3	0.80	108	7.66	0.90	3.0	6.7	580
W596345		7.03	16.95	0.12	0.5	0.036	2.24	21.6	25.4	0.92	109	158.0	1.63	3.5	5.8	1740
W596346		4.60	15.20	0.13	0.4	0.009	2.94	17.8	23.8	1.01	110	21.9	1.21	3.4	4.2	530
W596347		3.84	15.55	0.12	0.5	0.015	2.31	17.4	19.7	0.84	97	9.59	1.19	3.0	5.0	540
W596348		3.71	15.85	0.11	0.5	0.013	2.64	18.5	20.4	0.91	122	18.50	1.03	3.3	5.1	560
W596349		3.51	16.25	0.11	0.5	0.020	2.45	21.8	32.9	0.88	158	6.32	0.45	3.1	5.1	560
W596350		5.23	16.05	0.12	0.5	0.026	3.01	23.4	20.9	0.76	187	51.4	0.10	2.3	6.8	530
W596601		5.34	18.10	0.15	0.5	0.024	3.94	16.9	25.9	0.77	95	65.8	0.44	3.0	5.1	590
W596602		6.19	16.20	0.10	1.0	0.711	2.99	26.6	44.2	0.77	2060	9.28	0.07	6.7	18.8	550
W596603		4.21	15.95	0.11	1.8	0.015	2.94	15.7	35.4	0.91	126	48.1	0.45	4.3	6.5	900
W596604		3.68	16.15	0.14	1.7	0.014	3.27	19.0	28.2	0.69	103	45.0	0.43	4.2	4.1	690
W596605		4.04	16.40	0.11	1.5	0.055	2.78	18.1	32.0	0.84	295	243	0.06	3.4	4.3	630
W596606		11.80	12.10	0.08	0.7	4.47	1.97	16.8	31.7	0.54	1900	17.05	0.15	4.5	16.0	390
W596607		3.64	17.10	0.13	1.7	0.039	3.03	19.7	28.3	0.85	298	137.5	0.33	4.2	4.5	650
W596608		3.45	16.95	0.10	1.7	0.021	2.56	22.3	40.6	0.69	121	56.0	0.13	4.6	4.4	700
W596609		3.44	18.05	0.12	1.8	0.018	2.62	23.8	42.8	0.71	120	58.5	0.13	4.5	4.4	730
W596610		5.60	15.55	0.10	1.9	0.017	2.40	17.5	39.7	0.84	135	73.1	0.06	4.1	9.8	1190
W596611		6.81	12.40	0.13	0.4	0.012	3.07	18.8	25.6	0.98	98	67.8	1.02	2.5	6.3	470
W596612		3.77	15.15	0.14	0.6	0.009	3.41	24.3	29.8	1.06	89	97.1	1.32	3.9	5.1	550
W596613		3.95	13.80	0.11	0.5	0.012	3.34	22.6	24.6	1.03	85	28.2	1.35	3.1	4.7	550
W596614		4.20	14.75	0.15	0.5	0.009	3.55	23.6	31.9	1.03	90	51.8	0.83	3.5	5.5	570
W596615		4.20	14.60	0.13	0.5	0.013	3.24	23.1	28.6	1.10	94	19.50	1.35	3.6	5.4	540
W596616		3.53	16.40	0.17	0.5	0.021	2.49	21.2	29.2	1.23	118	16.30	1.61	3.7	5.7	570
W596617		4.62	15.05	0.13	0.4	0.012	3.13	20.0	27.3	1.17	120	20.2	0.33	3.0	5.3	550
W596618		3.39	15.65	0.16	0.4	0.015	2.62	22.5	22.3	0.85	130	19.00	0.77	3.0	5.5	560
W596619		5.13	13.35	0.15	0.3	0.091	2.86	22.2	25.7	0.71	254	311	0.07	2.5	5.4	490
W596620		0.17	0.70	<0.05	0.1	<0.005	0.06	1.3	1.6	1.68	114	0.53	0.09	0.3	0.2	70
W596621		4.26	13.90	0.09	0.4	0.023	2.90	19.2	19.5	0.84	118	30.3	0.48	2.4	5.8	530
W596622		7.64	14.70	0.06	0.5	0.010	3.42	11.0	32.9	1.42	140	21.8	0.44	3.3	6.0	580
W596623		6.16	15.65	0.09	0.6	0.024	3.73	18.1	26.3	1.03	107	29.2	1.32	2.7	6.4	620
W596624		6.71	17.20	0.11	0.6	0.054	4.35	15.0	36.4	1.11	146	38.0	0.75	3.0	7.4	640
W596625		4.25	15.55	0.10	0.5	0.024	3.19	24.9	22.2	1.04	159	3.26	0.44	2.6	5.5	550
W596626		5.12	17.70	0.12	0.6	0.023	2.85	24.4	25.3	1.03	141	3.77	0.77	3.6	5.7	610

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224797

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596337		15.6	160.0	<0.002	5.33	14.10	11.2	4	5.1	105.5	0.26	0.19	9.99	0.118	2.02	4.3
W596338		71.6	148.5	<0.002	5.09	5.39	10.8	4	4.3	272	0.27	0.11	10.75	0.122	1.96	3.7
W596339		37.4	138.0	0.002	4.97	4.56	10.9	4	4.4	270	0.24	0.10	10.80	0.114	1.96	3.8
W596340		29.1	162.5	0.002	4.80	16.25	10.9	4	4.5	63.6	0.22	0.05	12.15	0.112	2.11	3.3
W596341		46.1	142.0	<0.002	3.73	3.78	11.2	2	3.7	284	0.25	0.09	11.80	0.135	1.96	3.3
W596342		13.3	108.0	0.003	4.10	2.80	10.8	4	4.2	323	0.25	0.05	11.95	0.141	1.80	3.7
W596343		11.2	122.5	<0.002	3.61	1.60	10.4	4	4.2	2870	0.34	0.08	11.60	0.156	1.79	4.0
W596344		12.7	151.5	<0.002	8.13	5.76	11.6	7	6.5	1505	0.28	0.20	11.15	0.152	2.15	3.8
W596345		6.1	100.5	0.021	7.24	5.08	11.1	7	5.1	335	0.29	0.24	10.05	0.176	1.83	4.2
W596346		8.0	131.5	<0.002	4.30	1.66	10.4	3	4.4	417	0.27	0.40	9.40	0.154	2.22	3.4
W596347		6.8	107.0	<0.002	3.48	3.82	11.0	4	3.8	293	0.29	0.05	9.11	0.155	1.90	4.2
W596348		8.3	113.0	<0.002	3.21	5.76	10.5	3	4.6	298	0.32	0.10	9.76	0.154	2.13	3.8
W596349		12.3	115.0	<0.002	3.13	20.2	11.7	3	4.2	216	0.26	0.17	11.05	0.152	2.02	3.8
W596350		43.6	184.5	<0.002	5.11	17.35	11.0	4	5.1	104.5	0.21	0.28	10.90	0.117	2.18	3.5
W596601		13.6	191.5	0.002	5.40	15.05	12.3	4	9.2	188.0	0.25	0.23	10.55	0.142	2.27	3.6
W596602		1855	176.0	<0.002	3.54	49.4	9.9	1	6.6	84.6	0.52	0.23	11.25	0.211	2.70	4.4
W596603		6.9	130.0	0.007	3.89	12.00	10.5	4	4.5	387	0.34	0.10	8.88	0.152	1.83	4.1
W596604		6.9	136.5	0.004	3.51	15.25	7.1	2	3.8	209	0.34	0.06	9.69	0.117	1.81	4.0
W596605		46.4	161.5	0.038	3.82	26.7	6.8	3	4.0	74.2	0.29	0.10	10.00	0.103	1.92	4.1
W596606		9340	117.5	<0.002	>10.0	236	7.2	2	11.3	92.9	0.34	2.29	7.20	0.144	1.97	4.6
W596607		136.5	183.0	0.020	3.38	24.5	7.2	3	3.2	132.0	0.34	0.07	10.50	0.117	2.35	4.2
W596608		9.4	119.5	0.008	3.20	13.10	7.2	2	3.9	110.5	0.36	0.12	9.61	0.130	1.87	3.5
W596609		9.5	128.5	0.008	3.22	14.05	7.6	2	4.2	114.5	0.36	0.10	10.30	0.127	1.81	3.6
W596610		6.6	120.0	0.009	5.57	6.57	15.0	5	4.1	146.0	0.30	0.21	7.32	0.186	1.82	3.8
W596611		10.5	143.0	0.002	7.02	1.14	10.5	9	3.9	409	0.20	0.09	8.22	0.124	2.03	3.0
W596612		9.7	162.0	0.011	3.53	0.86	11.6	3	3.6	431	0.37	0.06	11.20	0.154	2.33	4.6
W596613		10.2	151.0	0.003	3.77	0.97	10.9	3	3.4	392	0.26	<0.05	10.95	0.136	2.17	3.9
W596614		9.2	166.0	0.003	3.96	4.47	11.9	3	4.1	364	0.30	0.12	10.60	0.147	2.33	4.4
W596615		10.1	143.5	0.002	4.04	1.59	11.5	4	4.0	488	0.31	0.06	12.00	0.157	2.08	4.0
W596616		13.6	113.5	<0.002	2.78	1.54	11.9	3	3.6	536	0.31	0.21	10.55	0.183	1.84	3.3
W596617		12.4	163.0	<0.002	4.46	3.54	11.2	4	4.0	184.0	0.25	0.17	9.47	0.137	2.27	3.1
W596618		7.6	116.5	<0.002	2.94	11.10	11.3	3	2.7	230	0.24	0.07	9.76	0.147	1.76	3.6
W596619		596	191.0	0.050	5.31	220	10.3	4	3.6	68.3	0.19	0.23	8.42	0.110	2.08	2.6
W596620		0.7	1.8	<0.002	0.03	0.26	0.2	1	<0.2	81.7	<0.05	<0.05	0.16	0.005	0.03	0.2
W596621		15.1	136.5	0.003	4.13	7.34	9.9	4	3.4	230	0.21	0.13	9.00	0.126	2.24	3.7
W596622		8.4	141.0	<0.002	7.76	2.63	11.5	9	3.7	226	0.28	0.23	8.60	0.164	2.46	4.5
W596623		9.3	148.0	0.003	6.31	3.47	12.1	8	3.3	351	0.22	0.15	10.60	0.144	2.42	5.0
W596624		25.3	173.0	<0.002	6.70	5.42	12.8	7	5.8	241	0.25	0.19	9.01	0.167	2.81	4.1
W596625		8.2	167.5	<0.002	3.96	2.28	11.1	4	4.0	205	0.23	0.13	10.35	0.142	2.60	3.2
W596626		11.5	136.5	<0.002	4.76	1.31	11.4	4	4.9	208	0.30	0.19	10.05	0.169	2.27	3.4

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224797

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596337		82	9.8	8.5	18	10.7	0.012
W596338		79	9.3	9.7	85	12.6	0.016
W596339		80	9.8	9.7	48	12.7	0.110
W596340		81	11.0	8.2	38	12.3	0.011
W596341		83	6.7	8.8	49	11.9	0.013
W596342		82	8.2	10.5	16	11.9	0.014
W596343		78	11.1	13.0	18	10.1	0.018
W596344		84	15.7	11.7	16	11.5	0.024
W596345		91	15.3	14.5	18	12.1	0.040
W596346		82	9.6	11.0	17	9.0	0.016
W596347		84	8.2	11.2	14	9.2	0.020
W596348		86	7.9	10.1	16	11.5	0.028
W596349		90	9.8	12.0	20	11.0	0.019
W596350		80	8.8	9.0	42	10.8	0.021
W596601		94	14.0	9.3	17	11.9	0.034
W596602		66	5.9	12.0	2920	29.4	0.626
W596603		80	12.0	11.2	17	65.3	0.015
W596604		60	8.8	10.0	17	57.8	0.014
W596605		56	10.9	8.4	352	51.9	0.012
W596606		49	4.7	10.0	>10000	22.5	2.83
W596607		56	7.3	9.7	85	58.9	0.013
W596608		60	11.2	10.2	20	62.0	0.015
W596609		61	10.8	10.5	21	62.8	0.016
W596610		110	20.1	11.4	17	70.7	0.014
W596611		77	11.3	10.0	14	8.8	0.014
W596612		84	45.4	12.1	14	12.4	0.017
W596613		80	10.8	11.5	14	11.9	0.014
W596614		83	10.8	11.9	14	11.2	0.039
W596615		88	12.2	12.5	20	11.0	0.017
W596616		89	10.5	12.2	25	10.2	0.026
W596617		83	15.6	11.9	21	8.8	0.015
W596618		84	8.4	10.5	21	9.7	0.016
W596619		73	15.3	7.3	1040	8.8	0.016
W596620		2	0.1	2.6	4	2.4	<0.005
W596621		78	9.8	8.7	21	8.4	0.035
W596622		85	14.3	10.7	18	12.2	0.023
W596623		73	11.0	10.9	19	13.1	0.044
W596624		77	11.9	10.1	36	15.3	0.079
W596625		84	9.8	9.0	20	10.4	0.022
W596626		101	13.5	10.5	21	13.6	0.020

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C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224797

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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1016 - 510 W HASTINGS STREET
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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224801

Project: Klaza

P.O. No.: Batch 37

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20224801

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W595661		4.86		0.10	7.51	9.5	2070	1.60	0.22	2.21	0.13	44.4	8.4	9	12.15	19.6
W595662		3.00		0.14	7.23	14.0	2140	1.69	0.24	2.84	0.13	48.5	8.6	7	14.05	19.9
W595663		3.14		0.30	7.10	43.7	2280	1.15	0.17	2.70	1.24	37.9	4.3	8	10.60	5.5
W595664		1.85		15.25	6.60	1700	170	1.50	3.53	1.77	51.8	48.1	7.9	6	11.70	152.0
W595665		1.97		0.25	7.28	232	1320	1.76	0.18	2.19	0.29	53.4	7.2	9	14.60	5.9
W595666		0.26	1.475	95.0	4.67	4020	90	1.08	49.9	1.53	199.0	31.6	59.5	36	9.79	1250
W595667		5.11		0.23	7.17	70.9	2130	1.53	0.21	2.23	0.23	45.1	5.7	6	14.90	6.4
W595668		3.88		0.22	7.77	12.1	2180	1.12	0.42	1.41	0.25	54.8	7.1	7	13.70	8.2
W595669		4.06		3.72	6.58	1740	680	1.25	0.68	2.78	5.68	51.9	19.7	5	14.40	16.6
W595670		4.57		1.55	6.61	54.4	600	1.50	0.99	1.97	1.27	40.5	14.5	6	32.5	70.6
W595671		4.85		0.19	7.37	23.6	1150	1.61	0.13	2.08	0.28	46.1	5.8	8	16.45	3.4
W595672		0.26		11.10	6.73	1980	130	1.55	5.79	1.75	38.9	49.9	12.1	27	18.45	194.5
W595673		3.06		0.22	7.54	50.2	1360	1.65	0.12	1.77	0.15	55.8	8.1	7	18.35	8.0
W595674		2.90		0.84	7.42	1500	1500	1.36	0.19	1.90	2.32	45.3	8.7	7	17.35	19.8
W595675		2.08		1.96	7.06	342	880	1.61	0.09	1.60	5.11	53.7	5.2	9	16.70	19.7
W595676		2.28		2.08	6.73	163.0	1160	1.35	0.16	2.78	11.55	49.8	7.1	6	16.75	40.6
W595677		1.53		0.35	7.27	136.0	1040	1.59	0.26	3.06	0.33	53.3	8.3	7	17.70	5.7
W595678		1.70		0.30	6.75	105.0	1090	1.32	0.14	3.64	0.91	36.5	5.3	6	10.30	2.1
W595679		<0.02		0.25	7.13	65.7	2190	1.29	0.13	3.10	0.54	39.7	3.2	7	11.05	1.5
W595680		1.64		1.41	7.55	473	1000	1.63	0.39	2.50	10.25	53.0	9.8	7	14.00	8.0
W595681		3.50		0.79	6.85	169.0	790	1.39	0.52	2.85	2.00	46.6	6.2	7	13.00	13.3
W595682		1.49		0.48	7.10	94.9	830	1.55	0.17	3.04	0.77	43.5	4.4	7	16.05	3.7
W595683		3.14		0.67	7.19	105.0	1390	1.66	0.10	2.37	1.23	47.0	4.3	6	18.65	3.2
W595684		3.21		2.02	7.08	1110	830	1.67	0.11	2.14	13.15	49.6	3.8	8	15.80	8.9
W595685		2.00		1.89	7.16	74.3	950	1.65	0.18	2.54	9.86	42.8	3.2	7	12.75	18.0
W595686		0.67		1.73	6.91	74.8	720	1.73	0.13	2.62	8.56	39.3	5.4	8	14.50	23.0
W595687		5.42		0.85	7.67	21.4	2250	1.69	0.32	2.83	0.14	42.9	4.4	9	14.35	115.0
W595688		4.80		0.23	7.63	26.6	1880	1.86	0.28	2.05	0.14	52.1	6.9	7	18.50	6.6
W595689		1.98		9.99	6.24	362	250	1.31	1.29	1.65	4.23	53.2	30.8	6	14.30	143.5
W595690		5.73		0.13	7.37	18.5	2230	1.65	0.19	2.64	0.14	46.6	5.7	9	12.00	5.2
W595691		4.80		0.38	7.07	38.2	2380	1.65	0.26	3.38	0.30	45.2	6.8	8	17.25	9.2
W595692		1.68		2.92	7.31	68.3	1200	1.63	0.30	3.28	10.05	54.3	5.4	7	20.5	10.8
W595693		4.57		0.10	7.63	16.7	1760	1.60	0.22	1.84	0.16	48.3	5.1	6	13.95	4.1
W595694		4.58		1.90	6.58	51.6	950	1.40	0.20	1.93	4.12	43.5	6.4	6	18.25	18.4
W595695		1.63		8.25	7.41	890	700	1.61	0.73	2.02	103.5	55.7	6.2	6	16.10	128.0
W595696		5.20		0.02	0.12	2.1	30	0.09	0.04	32.7	0.09	1.09	0.6	2	0.08	2.6
W595697		4.66		0.58	8.05	111.5	1120	1.69	0.25	2.08	2.42	54.7	7.5	7	16.75	18.3
W595698		4.06		2.40	7.59	33.8	2570	1.21	0.16	2.06	13.00	55.6	6.7	7	14.50	8.2
W595699		4.60		1.25	7.44	26.5	2010	1.23	0.16	1.73	1.21	50.2	5.1	6	11.25	5.4
W595700		5.10		0.89	7.44	62.8	940	1.32	0.16	2.02	0.90	37.5	2.8	7	14.45	13.9

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224801

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W595661		3.12	17.40	0.08	1.3	0.042	2.98	22.8	34.6	0.70	657	2.43	1.37	9.0	2.8	600
W595662		2.73	16.45	0.11	1.2	0.054	2.86	25.0	26.1	0.65	566	2.01	1.62	8.6	2.6	590
W595663		2.74	14.40	0.09	1.0	0.049	3.34	20.0	35.5	0.55	1080	1.55	0.54	7.2	2.1	550
W595664		4.61	14.80	0.10	1.0	1.430	3.07	26.6	19.5	0.57	2520	5.49	0.05	6.8	2.4	460
W595665		2.45	16.35	0.11	1.3	0.063	3.54	29.4	38.0	0.55	1630	1.99	0.25	7.8	1.9	580
W595666		11.45	11.75	0.10	0.8	4.25	1.92	15.8	30.8	0.53	1910	17.80	0.15	4.5	15.8	390
W595667		2.48	16.00	0.21	1.3	0.049	3.22	23.6	39.5	0.51	810	2.38	1.04	8.0	2.3	540
W595668		2.69	16.85	0.17	1.2	0.050	2.07	28.7	59.4	0.52	745	0.67	0.05	8.4	2.4	590
W595669		2.99	14.85	0.18	1.0	0.088	2.13	28.0	63.4	0.60	1520	0.96	0.03	6.9	2.7	540
W595670		3.41	14.95	0.13	1.0	0.127	2.72	20.0	30.4	0.66	1530	3.34	0.06	6.1	4.0	490
W595671		2.64	16.50	0.18	1.1	0.054	2.17	24.5	141.5	0.67	1040	1.40	0.04	8.1	2.4	650
W595672		5.97	16.20	0.16	1.1	0.739	2.87	26.4	41.4	0.75	2040	9.41	0.07	6.5	17.9	530
W595673		2.80	16.75	0.19	1.0	0.041	3.24	31.4	49.1	0.59	1240	1.20	0.09	7.8	2.7	550
W595674		3.17	15.85	0.16	1.1	0.072	3.12	23.6	47.3	0.55	1360	1.51	0.08	7.8	2.2	590
W595675		3.21	15.60	0.19	1.0	0.076	3.09	30.4	27.9	0.64	2230	1.28	0.02	7.0	2.2	510
W595676		2.87	14.50	0.18	1.0	0.099	2.65	28.4	58.9	0.75	1820	1.09	0.02	6.7	2.1	500
W595677		2.50	16.50	0.20	1.2	0.050	2.92	28.1	82.0	0.77	1300	1.73	0.03	7.5	3.0	550
W595678		2.72	14.85	0.17	0.9	0.086	3.05	17.3	10.6	1.19	2070	0.31	0.05	5.3	1.1	370
W595679		2.28	15.35	0.16	0.9	0.069	3.25	19.0	10.5	1.03	1830	0.54	0.05	5.8	1.4	470
W595680		3.19	16.40	0.19	1.1	0.071	3.28	28.5	29.8	0.89	1900	1.03	0.04	7.2	3.2	620
W595681		2.75	15.80	0.18	1.0	0.076	3.03	23.4	36.3	0.76	1940	5.90	0.04	6.0	3.3	500
W595682		2.31	16.15	0.22	1.2	0.058	3.16	21.4	22.3	0.71	2170	1.07	0.04	6.9	2.2	580
W595683		2.50	16.75	0.19	1.1	0.055	2.96	24.6	71.6	0.81	1590	2.34	0.03	7.5	2.2	550
W595684		3.49	15.60	0.20	1.0	0.082	2.62	28.6	87.3	0.74	2310	2.10	0.03	6.9	2.6	510
W595685		2.59	16.90	0.20	1.2	0.078	2.96	20.8	56.7	0.59	1600	0.92	0.03	7.2	1.8	610
W595686		2.86	16.95	0.18	1.2	0.064	2.80	19.3	87.7	0.58	1740	1.74	0.03	7.7	2.4	590
W595687		2.86	17.05	0.21	1.1	0.078	3.29	22.9	24.0	0.70	905	1.37	1.52	7.8	2.4	610
W595688		3.05	16.25	0.21	0.9	0.095	3.14	29.2	115.0	0.72	1220	0.67	0.05	7.7	2.3	610
W595689		4.47	13.60	0.20	0.8	0.210	2.78	30.0	17.8	0.55	1910	1.34	0.05	5.7	3.2	480
W595690		3.01	16.35	0.19	1.1	0.059	2.98	23.9	19.5	0.65	685	1.24	1.59	8.2	2.4	590
W595691		2.82	16.80	0.23	1.1	0.041	2.75	23.2	46.5	0.92	901	2.65	0.64	8.0	2.1	590
W595692		2.76	16.10	0.23	1.1	0.054	2.71	29.6	66.8	1.01	1140	2.54	0.04	7.5	2.3	540
W595693		2.34	16.35	0.21	1.1	0.048	2.12	24.7	205	0.63	721	1.00	0.06	7.9	2.3	600
W595694		1.97	14.80	0.19	1.0	0.048	2.33	21.3	72.9	0.65	938	1.53	0.03	6.9	2.1	510
W595695		3.41	15.90	0.20	1.3	3.15	2.73	31.0	63.2	0.72	1880	2.19	0.03	7.7	2.3	590
W595696		0.18	0.47	0.27	0.1	0.006	0.03	1.1	1.3	1.78	127	0.07	0.05	0.2	<0.2	80
W595697		3.06	16.20	0.34	1.2	0.052	2.57	29.7	94.1	0.73	1180	1.69	0.04	7.7	2.3	640
W595698		3.00	16.35	0.31	1.2	0.062	3.73	29.9	21.2	0.74	1030	1.34	0.12	7.9	2.5	590
W595699		2.29	16.70	0.29	1.2	0.076	2.50	25.6	35.5	0.66	1040	0.78	0.05	7.5	3.0	600
W595700		1.59	16.65	0.26	1.1	0.091	2.44	16.3	39.0	0.70	1020	8.63	0.07	7.7	3.5	600

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Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224801

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W595661		18.3	112.5	0.002	0.24	4.54	9.9	<1	1.6	256	0.76	0.06	12.65	0.249	1.40	3.3
W595662		15.3	120.5	<0.002	0.24	7.07	10.4	<1	1.6	312	0.71	0.06	12.55	0.246	1.55	3.5
W595663		78.5	116.5	<0.002	0.41	7.40	7.9	<1	1.5	180.0	0.65	<0.05	11.50	0.227	1.82	4.7
W595664		4790	178.5	<0.002	3.71	38.2	8.3	<1	4.6	62.5	0.60	0.08	12.70	0.183	2.78	4.4
W595665		27.8	178.0	0.002	0.79	12.85	9.9	<1	1.9	135.0	0.68	0.12	15.10	0.209	2.75	5.3
W595666		9330	111.5	0.002	>10.0	233	6.9	2	10.4	89.5	0.36	1.85	7.91	0.143	1.86	4.8
W595667		22.1	126.0	0.002	0.26	12.20	8.5	1	1.6	233	0.72	<0.05	11.75	0.224	1.90	7.8
W595668		12.5	87.0	<0.002	0.47	24.2	9.8	<1	2.3	99.3	0.73	0.05	15.00	0.239	1.31	4.2
W595669		886	127.5	<0.002	1.70	30.8	8.5	1	2.7	239	0.57	0.15	12.45	0.197	1.98	4.6
W595670		226	160.5	<0.002	1.85	26.3	8.1	2	8.2	96.3	0.54	0.17	12.50	0.170	2.46	5.4
W595671		21.5	87.0	<0.002	0.35	17.85	9.7	<1	2.0	259	0.66	<0.05	11.60	0.247	2.01	4.2
W595672		1805	173.0	0.002	3.42	54.4	9.4	1	7.2	85.1	0.54	0.27	11.65	0.203	2.85	4.5
W595673		16.1	154.0	<0.002	0.48	15.90	9.5	1	1.6	125.0	0.64	<0.05	13.75	0.229	2.65	4.6
W595674		207	123.5	<0.002	1.29	21.9	9.0	1	3.9	121.5	0.64	0.05	12.15	0.240	2.36	4.2
W595675		392	184.5	<0.002	1.28	18.40	9.0	<1	2.7	86.6	0.58	<0.05	12.20	0.203	3.15	4.2
W595676		295	153.0	0.002	1.04	16.10	8.7	1	4.9	198.5	0.58	<0.05	12.10	0.195	2.39	4.7
W595677		33.0	131.5	<0.002	0.55	10.10	9.5	1	3.2	285	0.63	<0.05	13.35	0.218	2.63	6.3
W595678		33.2	178.5	<0.002	1.03	7.70	7.0	1	3.2	111.5	0.46	<0.05	10.85	0.151	2.59	3.8
W595679		25.6	173.5	<0.002	0.76	7.16	7.8	1	2.7	96.4	0.49	<0.05	11.85	0.171	2.72	4.3
W595680		282	184.5	0.002	1.38	10.95	10.3	1	4.3	122.5	0.62	0.05	13.80	0.220	3.03	6.5
W595681		92.2	169.5	0.005	1.35	13.65	8.4	1	3.6	119.0	0.52	0.11	13.00	0.161	2.70	5.5
W595682		31.5	140.5	<0.002	0.44	8.86	9.0	1	2.3	149.0	0.61	<0.05	12.55	0.194	3.06	5.5
W595683		93.8	139.5	<0.002	0.35	10.95	9.3	1	2.0	174.0	0.65	<0.05	12.50	0.212	2.99	4.8
W595684		469	151.0	<0.002	0.86	26.4	8.9	1	2.5	136.0	0.53	<0.05	12.40	0.203	2.61	5.6
W595685		412	127.5	<0.002	0.64	12.40	9.3	1	2.9	165.0	0.62	<0.05	11.25	0.219	2.72	3.1
W595686		267	109.5	<0.002	0.54	13.55	9.0	1	3.4	200	0.61	<0.05	9.25	0.233	2.67	4.5
W595687		16.9	131.5	<0.002	0.15	12.40	10.1	1	2.0	315	0.61	<0.05	11.50	0.252	2.02	4.2
W595688		13.2	164.5	<0.002	0.35	13.30	10.0	1	2.2	182.5	0.59	<0.05	12.45	0.244	2.83	5.2
W595689		182.5	171.5	<0.002	3.69	61.3	7.6	1	3.1	92.5	0.48	0.34	9.96	0.177	2.88	4.0
W595690		17.4	111.0	<0.002	0.17	4.46	9.5	1	2.0	336	0.66	<0.05	11.55	0.241	1.64	3.4
W595691		16.8	114.0	<0.002	0.42	9.92	9.8	<1	1.9	297	0.61	0.06	10.95	0.236	2.02	3.8
W595692		777	132.5	<0.002	0.51	12.10	9.5	1	2.1	200	0.64	<0.05	12.85	0.226	2.49	6.9
W595693		10.8	96.6	<0.002	0.23	22.2	9.3	1	2.4	160.5	0.66	0.05	13.20	0.232	1.79	4.5
W595694		425	112.5	0.006	0.43	25.1	8.4	1	3.9	147.0	0.60	0.05	11.75	0.202	2.22	5.4
W595695		1410	142.0	<0.002	1.45	27.3	9.5	1	3.1	181.5	0.66	0.06	13.35	0.222	2.66	5.9
W595696		1.6	1.0	<0.002	0.01	0.10	0.2	1	0.2	76.5	0.06	<0.05	0.12	0.005	0.05	0.2
W595697		145.0	111.0	<0.002	0.69	13.70	9.4	1	4.5	239	0.68	<0.05	13.95	0.250	2.16	5.2
W595698		368	164.5	<0.002	0.39	13.55	9.6	1	2.3	131.0	0.64	0.06	13.30	0.235	2.59	2.8
W595699		239	129.5	<0.002	0.23	21.9	9.6	<1	2.6	106.5	0.65	<0.05	13.75	0.219	2.15	2.7
W595700		152.0	128.5	0.007	0.21	16.20	9.8	<1	4.2	133.5	0.63	<0.05	13.20	0.226	2.46	6.9

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CERTIFICATE OF ANALYSIS WH20224801

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W595661		67	2.0	15.9	47	35.5	0.008
W595662		68	2.0	16.3	46	32.9	0.015
W595663		60	1.8	13.8	181	27.6	0.016
W595664		52	4.0	12.0	5640	28.4	0.421
W595665		61	2.5	14.3	51	34.5	0.047
W595666		49	4.5	10.0	>10000	22.2	2.88
W595667		60	2.4	14.7	46	37.7	0.019
W595668		64	2.4	16.1	60	35.8	0.007
W595669		57	2.3	14.4	429	29.5	0.287
W595670		53	3.1	11.5	108	29.9	0.069
W595671		68	2.8	15.2	60	35.6	0.011
W595672		64	6.6	12.6	2890	31.6	0.602
W595673		62	3.0	16.5	44	33.4	0.020
W595674		63	3.1	14.5	226	34.7	0.293
W595675		56	4.8	12.8	461	32.7	0.162
W595676		55	3.5	15.3	940	30.9	0.075
W595677		64	2.1	16.4	61	36.1	0.036
W595678		50	1.6	14.5	77	25.1	0.025
W595679		55	1.7	15.4	58	28.1	0.016
W595680		68	2.1	17.4	621	33.5	0.069
W595681		54	1.9	15.4	152	31.8	0.150
W595682		63	2.1	14.3	86	36.0	0.012
W595683		62	2.5	15.6	103	35.0	0.014
W595684		57	3.3	14.0	933	31.0	0.191
W595685		63	1.8	12.7	1150	35.1	0.036
W595686		66	2.0	12.5	1010	36.2	0.027
W595687		68	1.6	14.9	52	31.4	0.007
W595688		67	2.4	14.9	47	29.7	0.016
W595689		52	2.9	10.8	341	22.6	0.268
W595690		65	1.3	16.1	43	35.7	0.008
W595691		64	1.8	17.1	52	35.2	0.007
W595692		62	2.2	17.0	625	34.8	0.039
W595693		65	1.9	16.5	48	32.9	0.007
W595694		57	2.0	12.9	249	30.3	0.027
W595695		61	3.7	14.1	9750	36.7	0.158
W595696		1	0.1	2.3	12	1.8	0.006
W595697		67	2.2	15.5	192	34.8	0.025
W595698		64	2.0	17.4	725	35.6	0.032
W595699		64	2.2	16.0	110	36.0	0.010
W595700		64	1.5	14.3	101	32.7	0.024

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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224801

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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CERTIFICATE WH20224809

Project: Klaza

P.O. No.: Batch 33

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Sample Description	Method	WEI-21	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W595581		4.15			2.70	7.24	148.5	1660	1.66	0.39	2.74	1.73	40.3	6.3	11	16.70
W595582		6.12			0.15	7.54	9.6	2710	1.81	0.21	2.42	0.23	47.9	7.1	12	17.95
W595583		5.42			0.50	7.39	20.3	2480	1.50	0.30	2.77	0.38	43.1	7.6	10	17.00
W595584		2.17			8.06	6.99	1095	360	1.46	2.60	2.29	48.0	47.1	8.3	9	15.80
W595585		3.83			0.29	7.59	27.9	1810	1.40	0.49	2.08	0.22	42.0	9.2	9	28.3
W595586		3.90			0.65	7.18	48.4	1460	1.92	0.58	2.32	0.46	44.1	10.3	10	13.55
W595587		2.08			6.23	7.10	542	720	1.68	1.78	2.22	10.35	49.7	6.7	9	13.65
W595588		5.10			0.01	0.17	0.8	30	0.11	0.03	32.9	0.02	1.10	0.9	2	0.07
W595589		5.85			0.21	7.20	7.3	2650	1.51	0.33	2.93	0.12	42.9	7.5	10	11.85
W595590		4.61			3.50	7.23	302	1230	1.49	0.65	2.78	1.67	45.8	7.4	10	16.10
W595591		3.02			0.49	7.25	42.9	2000	1.54	0.39	2.48	4.90	42.7	6.8	9	19.55
W595592		4.08			0.50	7.07	104.0	1240	1.57	0.34	3.08	1.24	44.6	9.6	8	20.7
W595593		0.26			11.05	6.83	1810	300	1.50	5.45	1.79	37.5	48.5	12.3	29	17.20
W595594		6.15			1.99	7.35	327	1910	1.65	0.46	2.74	3.88	46.9	6.4	12	14.55
W595595		6.29			2.86	7.55	11.7	2260	1.69	0.42	2.46	0.18	55.6	6.3	13	9.87
W595596		2.13			2.53	7.58	166.0	350	1.66	1.02	2.32	2.27	43.7	8.9	10	11.15
W595597		6.22			1.10	7.77	31.8	3060	1.58	0.25	2.74	14.30	49.5	7.1	13	11.60
W595598		3.54			0.13	7.90	6.8	2500	1.71	0.15	2.59	0.16	50.5	6.1	12	10.35
W595599		2.61			7.02	7.34	1380	590	1.57	0.90	2.04	40.3	50.2	6.5	11	14.30
W595600		0.82			3.69	7.17	1145	660	1.49	0.71	1.96	23.9	47.4	7.5	10	12.80
W595601		6.16			1.02	7.61	10.3	2650	1.67	0.44	2.74	7.07	49.2	6.2	12	12.70
W595602		3.89			0.42	7.75	7.2	2330	1.63	0.22	2.52	0.17	53.5	6.2	11	10.15
W595603		3.87			0.23	7.53	11.1	2470	1.81	0.30	2.69	0.17	47.2	6.4	10	11.25
W595604		5.14			1.21	7.28	34.9	3380	1.65	0.55	2.76	2.30	41.7	7.3	11	14.45
W595605		2.26	0.999		45.1	7.51	3800	730	1.58	1.99	1.96	71.2	45.9	8.9	13	23.9
W595606		1.69			8.79	7.10	340	340	1.55	1.95	2.45	6.12	41.4	5.8	9	16.60
W595607		<0.02			9.26	7.11	364	360	1.50	2.13	2.50	6.56	35.7	5.8	9	16.20
W595608		2.07			3.04	7.47	141.0	2220	1.68	1.69	2.73	1.33	48.8	6.5	11	12.70
W595609		4.47			0.36	7.76	8.8	2430	1.68	0.34	2.62	0.17	47.7	6.8	11	11.00
W595610		1.72			2.61	7.29	115.0	1200	1.49	2.38	2.57	0.41	50.5	9.0	9	10.80
W595611		3.05			0.71	7.40	41.3	1900	1.56	0.89	2.52	0.29	46.4	6.9	10	11.90
W595612		1.75			0.87	7.30	30.2	1880	1.52	1.25	2.62	0.74	43.9	6.6	10	13.15
W595613		4.86			0.80	7.53	59.6	2410	1.70	0.29	2.62	0.79	44.8	6.9	10	15.45
W595614		0.26		1.525	92.4	4.66	3700	100	1.03	47.7	1.57	196.5	28.4	60.7	36	9.55
W595615		1.70			0.59	6.96	60.2	2340	1.57	0.46	2.81	0.42	43.6	9.0	9	15.15
W595616		1.76			14.65	7.12	1105	220	1.52	4.99	1.93	17.40	46.6	7.3	8	15.15
W595617		2.30			2.83	7.05	87.6	2520	1.56	0.32	2.77	12.50	40.5	5.3	9	16.70
W595618		1.70			3.61	7.00	79.0	2120	1.49	1.05	2.93	20.6	44.9	8.8	9	16.35
W595619		2.96			0.23	6.83	31.7	1900	1.43	0.21	2.89	0.26	38.4	6.7	8	26.9
W595620		4.88			0.17	7.51	11.9	3970	1.81	0.33	2.62	0.18	59.0	12.8	9	14.25

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224809

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W595581		195.5	3.81	16.35	0.11	0.7	0.126	3.56	20.9	68.8	0.74	1580	1.95	0.44	7.9	2.5
W595582		50.1	3.18	16.75	0.18	0.8	0.058	3.23	25.8	33.6	0.75	581	1.44	2.12	8.4	2.7
W595583		64.5	3.16	15.75	0.11	0.7	0.078	3.15	21.3	27.5	0.81	967	3.23	1.42	8.0	2.7
W595584		143.0	4.39	15.25	0.11	0.6	0.760	3.36	24.9	27.1	0.79	1860	2.86	0.05	7.3	2.8
W595585		123.0	3.38	16.65	0.13	0.7	0.063	3.32	20.6	350	0.60	663	1.68	0.56	8.6	2.8
W595586		190.5	3.51	16.10	0.12	0.7	0.077	3.24	22.0	319	0.71	759	2.09	0.23	7.7	3.2
W595587		237	3.88	15.65	0.13	0.7	0.317	3.77	25.6	157.5	0.74	1200	2.12	0.15	7.5	2.2
W595588		1.9	0.14	0.54	0.07	0.1	<0.005	0.07	1.2	1.7	1.43	94	0.09	0.06	0.3	0.6
W595589		68.8	2.96	16.40	0.11	0.7	0.051	2.84	20.9	14.1	0.76	535	2.65	1.94	8.5	2.5
W595590		347	3.73	15.60	0.11	0.6	0.146	3.39	22.9	56.1	0.79	2820	3.66	0.27	7.6	2.8
W595591		77.8	2.68	16.25	0.13	0.6	0.081	3.49	20.4	91.0	0.71	1900	2.63	0.10	8.3	2.3
W595592		105.0	2.91	16.20	0.12	0.6	0.064	3.30	21.9	67.9	0.90	1860	2.27	0.06	8.5	2.5
W595593		198.0	6.03	15.40	0.12	1.0	0.665	2.95	26.1	42.5	0.76	2010	9.28	0.07	6.7	17.3
W595594		124.5	3.24	16.55	0.12	0.7	0.150	3.48	22.8	21.8	0.83	1500	7.67	0.94	8.2	2.5
W595595		176.0	2.85	16.20	0.14	0.8	0.081	3.23	29.0	12.0	0.73	606	19.10	2.01	8.9	2.5
W595596		258	4.07	16.80	0.13	0.6	0.173	3.58	21.8	11.7	0.67	1260	2.04	0.73	8.1	2.9
W595597		130.0	3.37	16.45	0.14	0.6	0.071	3.20	24.9	14.2	0.83	688	2.59	1.91	8.3	2.9
W595598		26.9	3.10	16.40	0.13	0.8	0.049	2.99	26.0	11.1	0.82	510	2.86	2.54	8.5	2.4
W595599		116.0	3.91	15.85	0.13	0.7	0.245	3.83	26.3	12.3	0.66	1310	6.02	0.44	7.3	2.4
W595600		50.2	3.84	15.40	0.12	0.6	0.158	3.64	25.2	8.6	0.65	1340	5.01	0.59	6.9	2.2
W595601		75.0	3.10	16.90	0.14	0.8	0.083	3.18	25.6	9.4	0.76	647	5.73	1.78	8.2	2.4
W595602		163.0	3.14	16.30	0.14	0.7	0.052	2.81	28.1	11.5	0.81	453	13.15	2.45	8.4	2.5
W595603		63.3	3.06	17.00	0.13	0.8	0.053	3.08	23.9	7.8	0.72	518	5.12	2.03	8.5	2.4
W595604		213	3.04	16.35	0.13	0.7	0.086	3.63	20.3	55.9	0.69	754	3.47	1.28	8.5	2.5
W595605		484	3.62	16.60	0.14	0.7	0.651	3.80	24.2	42.7	0.65	1420	2.17	0.14	8.1	2.6
W595606		277	4.09	16.30	0.13	0.6	0.101	3.91	20.5	29.6	0.72	2160	6.91	0.33	7.6	2.2
W595607		293	4.07	16.10	0.12	0.6	0.107	4.00	17.0	27.9	0.71	2220	11.00	0.32	7.5	2.0
W595608		119.0	3.69	16.20	0.14	0.6	0.135	4.30	24.4	7.4	0.73	1110	4.58	1.02	8.1	2.4
W595609		172.0	2.77	16.70	0.14	0.7	0.075	2.91	24.6	13.6	0.70	468	14.90	2.29	8.1	2.2
W595610		322	3.77	15.75	0.13	0.7	0.190	3.54	26.4	14.7	0.69	1400	33.3	0.65	7.7	2.3
W595611		58.4	3.11	16.05	0.14	0.8	0.109	2.94	24.0	9.3	0.66	800	7.11	1.59	7.2	2.3
W595612		59.9	3.51	15.55	0.14	0.8	0.153	3.32	23.3	13.1	0.67	1100	73.9	1.01	7.0	2.2
W595613		64.7	2.97	16.25	0.14	0.9	0.060	3.39	23.0	57.3	0.70	997	3.11	1.50	8.0	2.3
W595614		1290	11.65	11.45	0.12	0.7	4.07	1.98	14.4	29.6	0.54	1910	16.75	0.15	4.4	15.1
W595615		49.1	3.17	15.70	0.12	0.8	0.060	3.91	21.7	29.5	0.67	1140	1.99	0.93	7.8	2.2
W595616		614	4.31	15.35	0.13	0.7	0.281	3.88	24.0	41.3	0.62	1150	3.61	0.22	6.8	2.1
W595617		51.1	2.85	15.65	0.13	0.7	0.066	3.08	20.4	30.5	0.65	931	5.85	1.33	7.3	2.0
W595618		108.0	3.38	15.60	0.12	0.7	0.100	3.21	22.4	44.3	0.79	1260	5.80	0.78	7.3	2.3
W595619		31.3	2.78	15.95	0.12	0.7	0.037	3.23	19.0	111.5	0.84	709	4.56	0.66	8.1	2.9
W595620		73.2	3.19	16.25	0.14	0.9	0.047	3.17	30.0	86.5	0.63	494	6.05	1.95	9.8	2.8

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W595581		650	99.4	159.0	<0.002	1.21	14.85	10.3	1	3.2	229	0.60	<0.05	11.60	0.247	2.57
W595582		600	16.2	132.0	<0.002	0.25	5.75	10.1	<1	2.6	405	0.67	<0.05	13.20	0.240	1.62
W595583		640	58.8	138.0	<0.002	0.40	6.97	11.1	<1	3.3	347	0.55	<0.05	9.82	0.269	1.97
W595584		560	788	198.0	<0.002	3.50	48.0	10.4	1	4.9	127.0	0.50	0.05	10.50	0.230	2.79
W595585		680	16.7	134.5	<0.002	0.94	38.9	11.5	1	2.7	307	0.61	0.11	10.45	0.282	1.97
W595586		610	17.2	140.0	<0.002	1.44	72.1	10.6	1	2.8	255	0.57	0.12	11.40	0.245	2.02
W595587		550	493	190.5	<0.002	2.22	80.7	10.3	<1	3.8	191.5	0.57	0.07	12.40	0.222	2.58
W595588		70	0.6	2.5	<0.002	0.01	0.20	0.2	2	<0.2	84.1	<0.05	<0.05	0.13	0.005	0.02
W595589		610	15.6	108.0	<0.002	0.36	3.20	10.6	<1	2.4	393	0.60	0.07	10.60	0.257	1.39
W595590		610	84.6	182.0	<0.002	1.61	94.6	10.6	<1	3.7	168.5	0.52	<0.05	10.15	0.248	2.75
W595591		630	104.0	134.5	<0.002	0.56	30.1	10.9	1	3.4	243	0.57	0.05	10.65	0.267	2.79
W595592		620	57.1	137.0	<0.002	0.94	34.9	11.3	<1	3.6	235	0.59	0.06	10.30	0.270	2.97
W595593		520	1800	174.0	<0.002	3.58	48.3	10.3	1	6.2	82.7	0.51	0.24	11.75	0.214	2.54
W595594		610	163.0	162.0	<0.002	0.76	10.95	11.3	<1	3.9	278	0.58	<0.05	11.30	0.257	2.24
W595595		520	20.5	139.0	0.008	0.46	2.33	10.7	1	2.6	860	0.77	0.07	16.05	0.227	1.47
W595596		620	171.5	190.0	<0.002	2.81	5.73	11.3	1	5.0	189.5	0.58	0.07	10.60	0.252	2.33
W595597		610	134.5	138.5	<0.002	0.69	2.01	11.2	1	3.3	372	0.58	0.06	12.35	0.259	1.60
W595598		600	16.8	115.0	<0.002	0.05	0.98	10.6	<1	3.1	428	0.67	<0.05	13.05	0.255	1.20
W595599		540	1050	208	0.002	2.14	16.80	10.0	<1	5.0	180.5	0.57	<0.05	12.40	0.215	2.56
W595600		530	847	188.5	0.002	2.04	10.10	10.1	<1	5.0	202	0.55	<0.05	11.90	0.214	2.31
W595601		580	195.0	152.5	0.003	0.22	2.27	10.8	1	4.0	377	0.61	<0.05	12.70	0.239	1.74
W595602		590	16.8	116.5	0.006	0.12	1.04	10.6	<1	3.2	526	0.63	<0.05	13.80	0.248	1.28
W595603		560	17.8	142.5	0.002	0.18	1.37	10.6	1	2.9	471	0.67	<0.05	12.85	0.235	1.64
W595604		590	71.8	153.5	<0.002	0.42	12.30	10.1	1	3.1	337	0.64	<0.05	11.80	0.243	1.99
W595605		570	10000	176.5	<0.002	2.29	109.5	10.8	1	5.1	194.0	0.63	0.08	13.10	0.241	2.80
W595606		560	815	196.0	0.003	2.59	30.0	10.4	1	7.2	214	0.56	0.06	10.45	0.229	2.68
W595607		570	888	187.5	0.005	2.69	31.8	10.1	1	7.0	214	0.56	0.06	9.41	0.229	2.65
W595608		580	198.5	202	0.002	1.31	6.34	11.6	<1	5.2	272	0.58	<0.05	12.05	0.246	2.40
W595609		580	19.5	121.5	0.004	0.50	3.76	10.8	1	2.8	376	0.58	0.08	13.40	0.248	1.28
W595610		540	54.8	203	0.016	1.90	4.15	10.1	1	5.8	167.5	0.59	0.08	13.50	0.212	2.38
W595611		570	37.4	140.0	<0.002	0.70	2.39	10.2	<1	3.0	292	0.56	<0.05	12.85	0.233	1.61
W595612		560	61.1	173.0	0.007	0.81	2.51	9.8	1	3.2	234	0.52	<0.05	13.25	0.223	2.01
W595613		570	40.2	145.5	<0.002	0.40	10.05	10.4	1	2.3	328	0.59	<0.05	13.15	0.240	1.85
W595614		380	9300	113.0	0.002	>10.0	235	7.1	2	10.0	89.4	0.33	1.93	6.90	0.147	1.68
W595615		550	40.1	157.5	<0.002	0.67	3.01	9.6	1	3.3	258	0.58	<0.05	11.65	0.232	2.30
W595616		530	1235	216	<0.002	3.45	21.1	9.6	1	5.3	154.0	0.53	0.08	12.55	0.211	2.70
W595617		570	522	117.0	<0.002	0.48	5.53	9.7	<1	2.8	325	0.54	<0.05	11.10	0.235	1.94
W595618		530	873	142.0	0.002	1.16	18.90	9.1	<1	3.7	251	0.53	0.08	11.45	0.228	2.27
W595619		550	17.1	117.0	<0.002	0.41	15.30	9.3	1	3.1	292	0.61	<0.05	11.80	0.228	2.17
W595620		580	20.2	126.5	0.002	0.71	7.78	9.8	<1	2.9	420	0.82	0.08	17.60	0.223	1.44

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224809

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W595581		4.0	72	2.1	14.1	163	23.5	0.069
W595582		4.8	67	1.2	17.7	50	25.2	0.006
W595583		3.4	73	1.7	16.2	65	21.9	0.013
W595584		3.7	63	3.8	13.8	3020	18.0	0.465
W595585		3.4	77	3.9	15.3	69	19.9	0.013
W595586		3.1	67	5.1	15.5	88	19.8	0.027
W595587		4.5	61	2.7	14.7	750	19.7	0.458
W595588		0.2	1	0.1	2.2	4	2.8	0.010
W595589		3.2	68	1.4	15.6	45	19.5	0.009
W595590		3.9	70	3.2	14.9	155	17.3	0.053
W595591		3.4	72	3.8	15.7	376	18.6	0.030
W595592		4.1	76	4.0	15.8	90	19.2	0.035
W595593		4.3	65	5.7	12.3	2880	28.8	0.632
W595594		3.7	72	4.9	15.2	312	23.0	0.085
W595595		5.4	61	6.9	18.2	53	22.7	0.012
W595596		3.5	72	3.7	15.0	203	17.7	0.114
W595597		3.7	69	1.7	17.2	841	18.6	0.020
W595598		4.4	68	1.0	17.8	49	22.7	0.006
W595599		4.0	61	2.7	13.2	2510	20.3	0.302
W595600		3.9	61	2.4	12.9	1660	18.7	3.03
W595601		4.0	66	1.7	16.3	461	21.6	0.020
W595602		4.6	66	1.4	17.2	47	20.2	0.015
W595603		4.2	64	1.4	16.2	50	21.9	0.015
W595604		3.9	65	2.2	14.9	169	20.7	0.017
W595605		5.2	65	4.2	14.6	4870	21.3	1.180
W595606		3.8	63	3.7	15.0	430	19.5	0.113
W595607		3.5	63	3.7	14.1	467	18.7	0.114
W595608		3.8	69	2.5	15.8	128	19.0	0.049
W595609		4.1	66	1.1	15.5	56	21.2	0.015
W595610		3.5	58	2.5	14.4	68	21.0	0.282
W595611		4.2	65	2.8	14.1	68	22.7	0.025
W595612		4.1	62	18.1	14.1	114	22.9	0.021
W595613		3.9	66	5.2	15.5	121	24.7	0.019
W595614		4.3	49	4.3	9.7	>10000	22.2	2.86
W595615		4.1	63	2.6	14.1	70	24.2	0.017
W595616		3.9	58	7.3	13.2	1120	20.7	0.366
W595617		3.1	65	4.3	13.7	833	20.8	0.096
W595618		4.0	61	5.1	13.9	1330	20.4	0.057
W595619		4.6	62	4.3	14.5	65	22.6	0.014
W595620		6.1	59	2.7	17.9	57	24.6	0.009

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224809

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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Finalized Date: 14-DEC-2020
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CERTIFICATE WH20224814

Project: Klaza

P.O. No.: Batch 38

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 14-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224814

Sample Description	Method	WEI-21	Zn-OG62	As-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W595701		5.38			15.05	6.96	363	580	1.36	1.20	2.45	34.2	43.5	4.0	8	19.35
W595702		5.59			0.87	6.88	75.8	1730	1.71	0.28	2.86	0.62	40.9	5.6	8	16.70
W595703		4.95			0.40	7.21	272	1910	1.73	0.12	2.86	0.96	42.5	6.9	9	15.00
W595704		2.22			27.8	6.61	560	100	1.69	5.80	2.55	13.05	38.9	20.4	10	16.65
W595705		5.65			2.62	7.20	204	1980	1.59	0.30	2.60	9.36	43.5	5.7	9	13.10
W595706		3.68			0.58	6.79	180.5	1720	1.56	0.15	3.08	1.34	40.2	4.8	9	13.45
W595707		4.07			0.47	6.93	24.1	1520	1.64	0.57	3.06	0.35	37.5	5.4	10	11.45
W595708		0.26			9.65	6.68	1705	240	1.54	5.36	1.75	36.8	45.4	11.7	29	17.15
W595709		5.11			0.13	6.97	41.4	1800	1.84	0.38	3.99	0.16	52.1	7.7	20	27.4
W595710		3.58			0.05	7.24	10.2	1560	1.96	0.16	4.04	0.18	52.0	6.8	18	29.4
W595711		2.91			0.06	6.75	12.5	1480	1.73	0.11	4.35	0.16	42.6	6.7	18	27.3
W595712		4.44			0.13	7.05	10.2	1750	1.94	0.11	4.22	0.27	42.3	4.5	12	22.8
W595713		1.51			6.06	6.76	568	150	1.53	1.98	2.07	9.51	79.2	58.8	8	10.20
W595714		<0.02			5.42	6.39	553	140	1.50	1.86	2.03	9.01	74.6	65.1	7	9.71
W595715		4.37			5.01	7.04	178.5	350	1.81	0.81	3.07	3.69	36.8	1.5	9	11.25
W595716		5.48			0.09	7.01	11.2	1940	1.69	0.14	3.00	0.11	37.2	4.4	9	16.30
W595717		4.78			0.13	7.07	8.7	1300	1.88	0.19	3.03	0.11	31.2	3.0	12	13.75
W595718		3.93			0.32	6.63	16.1	1190	1.69	0.25	3.07	0.19	46.4	5.9	16	14.95
W595719		5.82			0.43	7.44	27.9	1540	1.79	0.27	2.58	1.56	43.6	3.2	10	9.53
W595720		0.26	1.425		95.3	4.74	3520	90	0.99	50.1	1.60	204	28.6	61.6	37	9.90
W595721		6.16			0.50	7.74	8.2	2100	1.75	0.38	2.90	0.70	42.7	4.9	11	9.72
W595722		2.16			21.4	7.16	1125	420	1.53	2.42	2.54	16.10	30.2	4.0	9	11.60
W595723		2.01			0.88	6.70	97.6	340	1.71	0.85	3.56	1.22	22.4	1.6	8	14.45
W595724		5.96			0.34	7.12	33.8	1520	1.77	0.18	3.27	0.54	37.7	5.3	9	15.75
W595725		4.74			0.29	7.26	12.2	1440	1.63	0.18	2.67	1.00	39.1	4.4	13	11.25
W595726		2.11			3.33	7.25	531	850	1.48	0.57	2.39	25.5	40.6	2.3	10	9.85
W595727		5.58			0.14	7.05	10.8	1510	1.72	0.18	2.81	0.36	36.8	4.3	10	12.40
W595728		3.80			0.88	7.79	10.8	2110	1.82	0.27	2.50	6.05	46.6	6.3	10	12.80
W595729		2.23			0.28	6.84	9.6	660	1.53	0.41	2.91	0.22	28.5	2.1	8	9.80
W595730		1.01			0.12	7.28	8.0	810	1.57	0.18	2.93	0.13	29.6	2.4	9	9.87
W595731		2.09			1.77	7.24	99.5	640	1.62	0.28	3.15	16.00	31.4	1.5	8	10.65
W595732		5.57			0.15	6.90	20.3	1090	1.82	0.17	3.34	0.17	29.2	2.9	8	14.20
W595733		1.77		2.19	12.45	5.14	>10000	90	1.22	0.17	3.04	137.0	26.4	2.9	6	10.05
W595734		3.51			0.15	6.83	27.1	1400	1.67	0.13	3.19	0.25	37.4	3.3	8	15.30
W595735		1.28			20.2	6.45	1020	500	1.60	0.12	3.25	79.5	25.0	1.2	7	11.35
W595736		4.99			0.01	0.11	<0.2	20	0.06	0.02	34.4	0.06	0.95	1.1	1	0.06
W595737		3.32			0.16	7.33	30.3	310	1.68	0.14	1.96	0.32	30.6	1.1	8	12.30
W595738		4.41			1.81	6.15	307	1220	1.32	0.34	2.07	6.57	29.9	1.2	8	8.84
W595739		4.40			0.28	7.22	25.8	1820	1.63	0.20	1.96	0.92	54.4	4.4	8	10.55
W595740		1.40			59.8	2.60	644	140	0.88	63.6	1.87	77.1	32.8	6.7	7	15.95

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Finalized Date: 14-DEC-2020
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CERTIFICATE OF ANALYSIS WH20224814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W595701		215	2.84	13.45	0.13	0.9	1.690	2.61	23.2	41.0	0.88	1310	4.41	0.04	6.7	2.3
W595702		13.2	2.81	15.60	0.14	1.1	0.077	2.91	20.6	113.0	0.83	1190	1.00	0.07	8.1	2.7
W595703		7.6	3.10	16.40	0.15	1.2	0.047	3.33	21.6	36.7	0.71	1050	0.78	0.91	8.8	2.5
W595704		568	6.01	13.60	0.13	0.8	0.503	3.02	19.6	39.5	0.70	1650	1.12	0.46	6.6	3.0
W595705		33.5	3.01	16.45	0.14	1.0	0.197	3.40	21.6	26.3	0.70	1120	0.99	1.18	8.2	2.6
W595706		7.9	2.88	15.00	0.13	1.0	0.036	3.26	19.9	48.3	0.64	1230	1.27	0.72	7.7	2.4
W595707		12.8	2.74	15.90	0.15	1.1	0.071	2.86	18.2	18.0	0.66	735	2.12	1.37	8.2	2.7
W595708		189.5	6.02	14.75	0.13	1.1	0.650	2.92	24.2	42.9	0.77	2000	9.00	0.07	6.7	17.0
W595709		6.9	2.82	17.60	0.14	3.5	0.038	2.61	25.6	182.0	1.00	802	1.67	0.16	10.9	6.4
W595710		5.4	2.61	17.70	0.15	3.1	0.028	2.47	26.3	207	1.00	687	1.14	0.17	11.1	5.8
W595711		5.0	2.66	17.20	0.14	3.1	0.024	2.72	21.3	95.2	0.85	748	1.20	0.30	10.5	5.8
W595712		4.9	2.43	16.60	0.14	2.0	0.066	2.43	19.6	252	0.81	834	0.55	0.11	9.1	3.8
W595713		39.2	6.92	16.00	0.16	0.8	0.299	2.98	44.1	54.7	0.61	840	0.75	0.05	6.2	3.3
W595714		38.1	7.01	15.20	0.15	0.8	0.292	2.88	41.3	52.6	0.58	796	0.67	0.04	6.1	3.3
W595715		412	2.72	17.70	0.13	0.9	0.275	2.89	15.9	60.0	0.56	1460	1.78	0.28	8.0	2.1
W595716		5.3	2.68	15.60	0.14	1.1	0.059	2.91	17.8	17.3	0.62	652	1.19	1.64	8.3	2.5
W595717		26.8	2.61	16.30	0.13	1.1	0.089	2.75	14.2	121.0	0.66	876	0.75	0.78	8.3	2.5
W595718		25.8	2.63	16.15	0.14	2.8	0.072	1.78	22.9	123.5	0.97	1260	0.67	0.09	9.2	5.0
W595719		7.5	2.90	16.30	0.14	1.0	0.102	2.87	21.9	25.4	0.68	707	0.76	1.87	8.3	2.8
W595720		1275	11.95	11.10	0.14	0.7	4.22	2.02	14.1	28.5	0.57	1940	17.65	0.16	4.4	14.9
W595721		51.6	2.93	16.60	0.12	1.2	0.081	2.55	20.5	12.1	0.80	646	1.06	2.52	8.8	2.6
W595722		278	3.91	16.80	0.13	0.8	0.410	3.08	12.6	19.8	0.53	2350	0.41	0.26	6.5	1.8
W595723		41.4	1.96	16.55	0.12	0.9	0.138	3.11	8.2	29.8	0.54	2180	0.35	0.06	7.9	1.7
W595724		9.3	2.91	16.35	0.13	1.1	0.064	2.93	17.7	90.6	0.75	1020	1.22	1.07	8.7	2.6
W595725		5.5	2.74	15.80	0.14	1.0	0.136	2.92	19.0	30.2	0.71	1100	0.77	1.38	8.0	2.5
W595726		25.2	3.31	15.90	0.13	0.8	0.458	3.10	19.0	12.2	0.78	1680	0.62	0.47	7.8	2.1
W595727		9.2	2.72	16.20	0.13	1.1	0.083	2.80	17.5	38.9	0.73	849	1.16	1.40	8.6	2.6
W595728		26.0	3.32	16.60	0.15	1.1	0.353	3.05	23.8	14.4	0.73	783	2.43	2.06	8.5	2.8
W595729		25.9	1.90	15.95	0.13	1.0	0.112	1.70	12.8	55.5	0.59	627	1.25	1.64	8.2	2.4
W595730		8.6	2.19	15.75	0.13	1.0	0.111	1.86	13.6	46.5	0.60	662	0.92	1.95	8.4	2.7
W595731		29.3	3.10	16.60	0.12	0.9	0.215	3.03	13.3	29.5	1.05	2060	0.39	0.28	6.6	2.1
W595732		8.0	1.84	16.25	0.13	1.0	0.101	1.56	12.8	83.6	0.67	731	0.54	1.94	8.6	2.3
W595733		159.5	5.17	11.85	0.11	0.8	0.379	2.32	14.0	20.9	0.93	4380	3.50	0.03	5.7	2.1
W595734		5.6	2.61	15.85	0.14	1.0	0.070	2.74	17.8	60.2	0.71	816	0.84	0.96	8.3	2.3
W595735		93.7	2.21	15.15	0.16	0.8	0.238	2.28	10.6	43.3	0.78	1020	0.57	0.63	6.7	2.9
W595736		6.6	0.12	0.35	0.11	<0.1	<0.005	0.02	1.0	1.4	1.52	88	0.13	0.05	0.2	0.7
W595737		4.9	1.58	15.75	0.20	0.9	0.139	2.58	13.6	214	0.64	992	0.46	0.04	7.6	1.9
W595738		10.0	2.36	12.90	0.20	0.7	0.146	2.64	13.4	56.5	0.66	1540	0.53	0.10	5.6	1.6
W595739		6.5	3.03	15.65	0.24	0.9	0.099	3.10	29.3	30.6	0.67	930	1.02	1.10	7.8	2.6
W595740		1460	3.58	6.23	0.12	0.4	8.52	0.97	18.3	58.0	0.20	798	96.8	0.02	2.4	5.2

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 14-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W595701		500	3240	138.5	<0.002	1.06	56.4	9.1	1	3.1	148.5	0.51	<0.05	13.00	0.202	2.05
W595702		530	144.5	122.0	<0.002	0.37	12.65	9.5	1	2.4	192.5	0.64	<0.05	11.70	0.220	2.19
W595703		600	72.2	129.0	<0.002	0.39	7.90	9.9	1	1.9	255	0.67	<0.05	12.35	0.246	1.85
W595704		490	1155	144.0	<0.002	4.66	98.8	9.1	1	2.9	189.5	0.49	0.65	10.85	0.196	2.14
W595705		550	614	143.5	<0.002	0.58	11.00	9.6	1	2.0	274	0.61	<0.05	12.10	0.227	2.08
W595706		520	78.0	119.5	<0.002	0.35	9.24	8.7	<1	1.4	239	0.62	<0.05	11.75	0.216	1.87
W595707		550	56.7	114.0	<0.002	0.37	4.82	9.4	1	3.0	273	0.61	0.05	11.20	0.225	1.77
W595708		510	1740	169.5	<0.002	3.43	48.6	9.7	1	6.2	79.7	0.51	0.23	11.85	0.208	2.50
W595709		1160	16.4	86.3	<0.002	0.21	21.0	8.0	<1	1.5	406	0.67	<0.05	8.59	0.328	2.19
W595710		1060	19.6	80.3	<0.002	0.05	11.40	6.9	1	1.4	342	0.70	<0.05	9.11	0.308	1.96
W595711		1060	17.1	77.1	<0.002	0.06	15.10	6.4	1	1.3	323	0.69	<0.05	7.60	0.307	2.10
W595712		820	20.2	89.9	<0.002	0.07	16.10	8.5	<1	1.8	274	0.61	<0.05	10.55	0.271	1.89
W595713		290	766	176.0	<0.002	6.07	18.10	6.3	1	5.2	104.0	0.49	0.93	10.70	0.184	2.31
W595714		290	749	159.0	0.002	6.34	16.90	6.1	2	5.1	102.5	0.49	0.96	9.81	0.181	2.19
W595715		510	221	143.0	0.007	0.96	29.1	9.2	1	4.2	134.0	0.61	<0.05	11.75	0.224	2.54
W595716		560	15.6	107.0	<0.002	0.11	4.70	9.3	1	1.8	313	0.66	<0.05	11.15	0.234	1.66
W595717		560	13.0	97.5	<0.002	0.10	9.56	9.4	<1	2.2	225	0.64	<0.05	10.55	0.234	1.84
W595718		940	14.0	73.9	<0.002	0.22	27.1	8.0	1	1.8	529	0.58	<0.05	9.55	0.272	1.65
W595719		570	113.0	129.5	<0.002	0.33	4.12	10.3	<1	2.2	309	0.63	<0.05	13.10	0.229	1.55
W595720		390	9400	113.5	0.002	>10.0	242	7.0	2	10.6	88.7	0.33	1.97	7.48	0.146	1.75
W595721		590	37.0	95.9	<0.002	0.05	3.00	10.3	1	1.8	449	0.69	<0.05	12.50	0.246	1.09
W595722		470	836	178.0	<0.002	2.92	91.1	8.8	<1	3.5	109.5	0.46	0.05	11.00	0.192	2.67
W595723		580	90.3	131.0	<0.002	0.94	21.5	8.7	1	2.3	131.0	0.58	<0.05	9.04	0.232	2.75
W595724		580	31.3	109.5	<0.002	0.16	9.88	9.8	1	1.9	290	0.67	<0.05	10.50	0.240	1.89
W595725		550	56.0	119.5	<0.002	0.14	6.05	9.3	<1	1.9	259	0.64	<0.05	12.05	0.221	1.75
W595726		500	646	190.5	<0.002	1.49	16.25	10.0	<1	3.7	132.5	0.59	<0.05	13.95	0.212	2.29
W595727		570	22.2	105.0	<0.002	0.10	5.77	10.1	1	2.3	284	0.64	<0.05	11.30	0.236	1.65
W595728		580	394	121.0	<0.002	0.10	4.26	10.2	<1	1.9	369	0.61	<0.05	13.05	0.242	1.36
W595729		570	17.3	66.6	<0.002	0.05	6.61	9.9	<1	2.7	290	0.60	<0.05	9.98	0.237	1.26
W595730		600	14.5	74.7	<0.002	0.06	5.38	10.9	<1	2.7	322	0.61	<0.05	10.25	0.245	1.26
W595731		550	419	175.0	<0.002	0.82	10.65	10.6	1	5.6	120.5	0.50	<0.05	12.55	0.196	2.42
W595732		580	16.0	56.9	<0.002	0.15	8.19	9.2	1	3.4	332	0.65	<0.05	10.20	0.250	1.30
W595733		380	1630	133.5	<0.002	3.44	107.0	6.7	1	5.5	88.9	0.44	<0.05	9.64	0.159	1.89
W595734		550	19.5	101.0	<0.002	0.15	7.45	9.0	<1	2.1	266	0.62	<0.05	11.15	0.233	1.85
W595735		430	3770	113.0	<0.002	0.56	30.1	9.7	1	3.5	196.5	0.53	<0.05	11.15	0.195	2.26
W595736		60	3.3	0.8	<0.002	0.01	0.16	0.3	1	<0.2	80.5	<0.05	<0.05	0.10	0.007	<0.02
W595737		550	18.8	108.0	<0.002	0.07	11.60	9.5	<1	2.7	207	0.58	<0.05	12.40	0.224	2.41
W595738		330	466	156.5	<0.002	0.83	16.35	6.6	<1	2.7	104.5	0.47	<0.05	11.90	0.168	2.30
W595739		510	72.9	137.0	<0.002	0.25	7.55	9.9	<1	2.0	238	0.61	<0.05	13.55	0.214	1.71
W595740		170	4200	59.1	0.009	3.68	631	3.6	1	3.3	165.0	0.19	0.23	4.72	0.075	1.37

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 14-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224814

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W595701		5.4	58	2.3	14.6	3550	25.6	0.259
W595702		6.2	61	2.0	14.7	88	35.1	0.025
W595703		4.2	67	1.5	15.1	158	36.2	0.117
W595704		4.2	58	2.1	13.3	1260	25.7	0.606
W595705		3.1	63	2.0	14.4	942	29.8	0.032
W595706		4.0	58	1.8	13.8	149	31.1	0.049
W595707		3.1	61	0.9	14.2	65	32.5	0.087
W595708		4.3	64	5.8	11.9	2830	29.7	0.640
W595709		7.3	73	1.3	13.1	69	146.5	0.006
W595710		4.5	66	1.6	12.4	68	127.0	<0.005
W595711		4.2	67	1.3	10.9	64	125.5	<0.005
W595712		3.6	68	0.9	13.6	65	78.4	<0.005
W595713		6.6	47	2.2	11.1	963	23.0	1.680
W595714		6.6	48	2.2	10.5	924	22.6	1.785
W595715		4.2	59	1.5	11.7	405	27.4	0.235
W595716		3.5	62	1.2	14.0	39	33.7	0.006
W595717		3.6	63	1.3	13.8	45	32.2	0.006
W595718		9.6	66	2.8	14.4	45	113.5	0.009
W595719		3.4	64	1.2	16.1	189	30.8	0.010
W595720		4.4	50	4.2	9.7	>10000	22.9	2.92
W595721		4.1	65	0.8	17.6	107	33.1	0.006
W595722		2.9	55	2.3	12.1	1630	24.2	0.423
W595723		3.6	65	1.6	12.1	129	27.8	0.041
W595724		3.9	66	1.6	16.2	83	31.8	0.026
W595725		4.7	62	1.5	15.1	130	30.4	0.005
W595726		4.6	56	1.9	14.4	1790	24.8	0.079
W595727		3.5	65	1.3	14.8	64	31.5	0.007
W595728		2.8	65	1.7	16.3	672	32.0	0.010
W595729		2.9	70	0.7	13.5	55	30.1	0.005
W595730		3.1	71	0.8	13.3	47	28.7	<0.005
W595731		4.9	61	1.8	15.0	1200	25.2	0.091
W595732		2.8	66	0.8	13.6	46	28.3	0.008
W595733		4.2	41	3.4	10.9	9210	22.0	3.13
W595734		3.1	62	1.3	14.1	53	27.7	0.011
W595735		2.7	55	1.0	11.4	4900	24.7	0.154
W595736		0.2	2	<0.1	2.0	14	1.5	<0.005
W595737		4.4	61	1.6	13.3	65	26.7	0.008
W595738		4.0	45	2.0	10.1	580	20.5	0.053
W595739		7.7	60	1.9	15.8	128	26.9	0.005
W595740		20.4	32	2.0	6.4	7790	11.7	1.895

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Project: Klaza

Finalized Date: 14-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224814

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	As-OG62	Au-AA24	ME-MS61	ME-OG62
	Zn-OG62			

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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224817

Project: Klaza

P.O. No.: Batch 28

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 18-DEC-2020
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CERTIFICATE OF ANALYSIS WH20224817

Sample Description	Method	WEI-21	Ag-OG62	Zn-OG62	As-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Zn	As	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1
W599905		3.75				6.91	6.87	208	560	1.50	0.17	0.32	7.22	75.0	1.8	6
W599906		3.76				1.86	6.13	47.8	1490	1.69	0.10	1.27	1.69	71.9	1.6	6
W599907		4.88				7.50	6.42	315	990	1.71	0.12	0.50	2.39	83.7	1.8	5
W599908		4.26				0.77	6.45	124.5	520	1.71	0.04	0.31	1.49	75.1	1.4	5
W599909		4.50				1.18	6.72	170.5	550	1.82	0.09	0.40	3.33	88.7	1.9	7
W599910		4.65				0.96	6.82	202	560	1.59	0.08	0.71	1.31	80.9	1.6	5
W599911		0.25				9.62	6.39	1930	180	1.46	5.32	1.66	35.0	43.6	11.0	27
W599912		2.23				1.64	6.77	138.0	570	1.70	0.13	0.69	1.92	94.1	1.4	5
W599913		4.03				1.95	6.31	121.0	460	1.71	0.10	0.43	3.34	77.4	1.1	4
W599914		4.60				1.83	6.65	224	660	1.73	0.08	0.97	0.63	77.8	1.2	7
W599915		4.59				0.28	6.59	180.0	1780	1.57	0.13	0.90	0.36	76.6	1.3	6
W599916		3.86				0.81	6.44	36.5	680	1.56	0.08	1.28	0.75	67.6	1.0	4
W599917		4.73				0.77	6.28	63.1	610	1.65	0.10	1.54	0.69	61.5	1.5	4
W599918		0.26		1.475		93.7	4.51	4030	60	1.03	48.0	1.48	192.5	28.0	55.7	34
W599919		4.77				0.82	6.62	214	600	1.75	0.17	0.41	0.38	80.3	1.1	4
W599920		3.05				3.67	6.56	253	310	2.62	0.36	0.64	0.72	29.3	0.5	3
W599921		3.33				2.36	6.73	568	360	2.71	2.48	1.13	1.26	28.1	2.2	6
W599922		3.18				2.76	7.38	1405	500	2.26	3.03	1.32	0.40	60.0	8.3	14
W599923		4.89				1.28	7.46	2690	610	1.89	0.15	2.43	1.12	43.1	14.1	21
W599924		3.15				0.57	6.52	2230	710	1.73	0.06	3.34	0.57	30.0	15.4	21
W599925		4.81				0.17	7.40	46.1	880	1.45	0.04	4.02	0.29	43.1	14.7	22
W599926		4.78				0.41	7.18	32.0	850	1.37	0.06	3.83	0.73	41.2	14.1	22
W599927		3.22				0.21	7.63	71.2	900	1.34	0.02	3.99	0.23	45.9	14.8	21
W599928		1.94				0.52	6.89	2660	740	1.27	0.16	3.61	1.39	35.7	15.6	23
W599929		2.42				4.33	7.75	2680	490	1.72	0.13	1.25	1.29	54.4	12.3	19
W599930		4.49			1.505	6.76	10.40	>10000	670	2.60	0.45	1.57	0.48	76.4	7.9	25
W599931		<0.02			1.525	6.57	10.30	>10000	660	2.43	0.45	1.54	0.45	76.1	7.4	25
W599932		5.80				10.35	6.60	6340	520	1.64	0.31	2.21	1.36	56.4	8.2	15
W599933		4.11				6.12	7.70	9630	810	1.90	0.39	2.14	0.75	53.6	6.8	26
W599934		5.30				12.65	7.17	5980	580	1.64	0.38	1.44	3.34	52.9	5.5	22
W599935		2.01				14.05	7.59	6420	660	1.68	0.39	1.39	5.21	67.5	6.2	22
W599936		3.40				12.10	6.85	3400	490	1.65	0.33	2.20	3.17	56.1	5.6	22
W599937		2.57	100			>100	7.08	6290	190	1.91	0.58	1.30	55.2	65.1	7.1	22
W599938		5.01				0.12	0.13	8.0	30	0.08	0.02	35.3	0.05	1.26	0.9	2
W599939		5.21				39.5	5.30	479	580	1.15	0.20	0.82	20.9	64.4	0.6	7
W599940		4.34				1.23	5.95	70.7	820	1.31	0.19	0.74	1.17	73.3	0.9	6
W599941		3.92				0.45	5.97	30.6	790	1.16	0.11	0.70	0.43	66.5	0.5	6
W599942		5.59				0.69	6.80	45.7	830	1.20	0.26	0.43	0.50	78.3	0.6	4
W599943		2.22				8.92	5.97	101.5	670	1.20	0.52	0.67	5.71	71.1	0.9	4
W599944		3.86				6.02	6.49	37.9	680	1.25	0.25	0.28	0.78	78.8	0.4	5

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224817

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOD	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
W599905		12.35	5.0	1.18	14.15	0.20	3.5	0.064	3.49	39.2	4.7	0.36	1220	0.57	0.04	12.6
W599906		7.46	4.3	1.32	12.95	0.22	3.3	0.019	4.42	34.9	5.5	0.32	1390	0.93	0.23	12.0
W599907		9.29	8.8	1.96	13.20	0.22	3.4	0.021	3.59	40.6	7.5	0.33	1050	4.60	0.16	12.5
W599908		10.90	2.7	1.46	12.85	0.24	3.2	0.014	3.22	39.1	5.1	0.34	919	1.34	0.03	12.1
W599909		11.00	3.6	1.99	14.05	0.23	3.3	0.025	3.45	44.0	5.3	0.38	982	1.31	0.03	12.8
W599910		8.99	2.1	1.59	14.30	0.26	3.5	0.023	3.58	43.0	5.5	0.53	1920	0.94	0.03	12.7
W599911		16.10	192.0	5.88	14.15	0.20	1.0	0.638	2.85	23.6	41.3	0.73	1920	8.97	0.06	6.2
W599912		8.68	3.4	2.11	13.55	0.22	3.5	0.023	3.55	43.6	6.8	0.51	1960	1.49	0.03	13.2
W599913		10.15	2.1	1.28	12.80	0.25	3.2	0.033	3.20	40.8	6.6	0.38	1360	1.59	0.03	11.9
W599914		9.17	2.1	1.29	13.50	0.25	3.4	0.021	3.48	40.2	5.0	0.40	1790	1.31	0.03	13.1
W599915		7.13	1.6	1.17	13.60	0.26	3.4	0.018	4.70	40.1	7.4	0.31	1060	4.69	0.27	12.6
W599916		10.55	2.9	1.24	13.05	0.26	3.4	0.020	3.36	33.3	3.6	0.33	1510	0.64	0.03	12.6
W599917		9.62	2.8	1.23	13.50	0.28	3.4	0.022	3.30	29.8	9.0	0.32	1700	0.91	0.03	12.6
W599918		9.40	1250	11.60	11.05	0.19	0.7	4.13	1.94	14.3	30.4	0.53	1830	16.20	0.15	4.1
W599919		10.00	2.7	1.29	13.90	0.24	3.5	0.021	3.38	42.0	5.9	0.40	1740	1.51	0.03	13.1
W599920		13.55	11.6	0.83	18.40	0.18	3.0	0.020	3.18	14.4	6.0	0.29	4310	1.47	0.03	20.9
W599921		13.20	2.2	1.36	18.60	0.21	3.1	0.069	3.33	13.6	5.4	0.46	5130	1.54	0.03	20.0
W599922		15.00	4.1	3.06	15.65	0.25	3.5	0.071	3.73	31.0	3.6	0.59	5140	2.42	0.03	11.6
W599923		13.40	10.1	3.61	17.05	0.24	3.6	0.045	3.76	19.5	7.1	0.43	3300	1.09	0.03	9.4
W599924		15.45	14.5	3.70	16.00	0.22	3.5	0.045	3.55	12.4	7.3	0.39	2640	0.69	0.04	8.4
W599925		16.45	16.5	3.98	15.80	0.28	3.5	0.044	3.16	20.5	16.3	1.00	1840	0.72	0.12	8.4
W599926		17.60	16.1	3.92	15.90	0.26	3.5	0.042	2.99	19.6	11.2	1.03	1460	0.87	0.16	7.9
W599927		10.80	21.5	4.02	16.45	0.26	3.5	0.054	3.05	22.3	16.6	1.12	2980	1.21	0.21	8.3
W599928		10.95	31.2	4.31	16.05	0.25	3.0	0.068	3.35	15.8	12.6	0.53	4610	5.34	0.03	8.5
W599929		12.10	18.2	3.54	16.80	0.22	3.1	0.051	3.65	25.4	4.6	0.54	5380	1.15	0.03	9.2
W599930		20.0	25.7	2.96	27.6	0.25	9.8	0.031	5.00	37.9	4.1	0.62	7280	6.32	0.05	24.9
W599931		19.25	25.2	2.91	26.9	0.25	9.0	0.031	4.93	37.9	4.0	0.61	7140	6.10	0.05	24.4
W599932		11.35	18.5	2.71	15.65	0.23	4.2	0.036	3.24	26.5	6.4	0.58	13600	4.25	0.03	12.4
W599933		11.70	17.6	2.36	21.0	0.23	7.1	0.034	3.94	24.8	4.2	0.62	10950	3.38	0.04	18.2
W599934		10.55	17.8	2.47	17.75	0.23	6.5	0.032	3.55	26.3	4.4	0.46	7880	3.51	0.04	16.5
W599935		12.10	26.9	2.40	18.95	0.12	7.2	0.036	3.68	36.3	4.5	0.47	7640	4.21	0.04	18.3
W599936		11.40	16.9	2.43	17.55	0.11	6.4	0.030	3.36	29.2	9.6	0.56	6950	3.68	0.04	16.0
W599937		26.4	78.4	4.38	17.75	0.12	4.4	0.306	2.93	34.9	14.2	0.51	5010	4.92	0.03	13.5
W599938		0.08	1.7	0.23	0.41	0.05	0.1	<0.005	0.04	1.3	1.2	1.70	129	0.12	0.05	0.2
W599939		8.51	19.8	2.72	11.95	0.10	3.1	0.056	2.56	34.8	5.8	0.28	5340	5.16	0.03	9.8
W599940		10.85	2.8	1.23	12.15	0.14	3.4	0.030	2.84	38.9	3.3	0.31	4860	3.83	0.03	11.4
W599941		9.10	2.2	1.22	12.30	0.14	3.2	0.021	2.84	35.6	3.4	0.26	5480	4.90	0.03	10.8
W599942		9.50	3.8	1.27	16.10	0.15	4.1	0.031	3.37	42.5	2.9	0.26	2970	1.26	0.03	12.7
W599943		11.60	13.9	1.57	13.30	0.13	3.7	0.046	2.78	39.3	7.8	0.31	3860	4.88	0.03	10.7
W599944		9.28	5.2	1.38	15.35	0.15	3.9	0.024	3.26	43.2	4.7	0.24	1450	4.03	0.03	12.5

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224817

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005
W599905		1.2	100	651	217	<0.002	0.54	18.45	5.0	<1	5.4	14.3	1.10	<0.05	26.3	0.108
W599906		1.2	100	142.0	229	<0.002	0.37	8.41	4.1	<1	2.2	84.4	1.04	<0.05	23.9	0.097
W599907		1.3	140	209	210	<0.002	1.16	24.3	4.4	<1	3.4	44.6	1.05	<0.05	25.0	0.100
W599908		1.3	110	57.6	195.0	<0.002	0.66	18.15	4.2	<1	1.4	13.5	1.01	<0.05	25.0	0.102
W599909		1.7	140	74.9	207	<0.002	1.01	14.20	5.2	<1	1.7	15.9	1.04	<0.05	25.6	0.108
W599910		1.4	120	62.6	234	<0.002	0.68	9.85	4.9	<1	1.6	19.1	1.11	<0.05	27.1	0.110
W599911		15.4	480	1770	160.0	<0.002	3.31	45.4	9.4	1	6.0	76.0	0.48	0.23	10.95	0.201
W599912		1.3	130	126.5	229	<0.002	1.07	11.75	5.3	<1	1.4	16.0	1.07	<0.05	26.2	0.105
W599913		1.0	90	196.0	200	<0.002	0.36	13.10	4.2	<1	1.5	15.4	1.01	<0.05	25.1	0.090
W599914		1.3	90	52.2	216	<0.002	0.33	8.57	4.0	<1	1.5	23.0	1.08	<0.05	26.5	0.096
W599915		1.2	90	34.6	226	<0.002	0.25	7.51	3.8	<1	1.5	108.5	1.10	<0.05	26.6	0.092
W599916		1.0	90	92.8	189.0	<0.002	0.41	10.65	3.9	<1	1.8	34.2	1.09	<0.05	23.7	0.094
W599917		1.2	100	64.8	180.5	<0.002	0.58	10.55	4.4	<1	1.6	49.3	1.09	<0.05	21.7	0.108
W599918		13.7	360	9250	107.0	0.002	>10.0	227	7.0	2	10.1	85.1	0.33	2.03	6.78	0.141
W599919		1.2	80	59.0	222	<0.002	0.43	13.25	3.7	<1	2.0	21.0	1.14	<0.05	26.9	0.087
W599920		0.5	30	164.5	208	<0.002	0.28	10.50	3.0	<1	5.1	14.3	2.21	<0.05	22.4	0.041
W599921		1.7	120	94.7	223	<0.002	0.72	14.65	5.9	<1	3.9	21.3	1.94	<0.05	19.55	0.100
W599922		4.5	340	72.5	248	<0.002	2.48	16.50	12.1	<1	3.6	35.4	0.89	0.09	19.10	0.249
W599923		7.9	540	91.4	197.5	<0.002	2.74	26.9	18.0	1	2.0	62.4	0.62	0.16	11.00	0.362
W599924		8.4	550	24.3	145.0	<0.002	2.63	22.8	15.2	<1	1.6	73.9	0.58	<0.05	7.95	0.376
W599925		7.8	540	18.6	149.5	<0.002	0.19	17.45	17.2	<1	1.5	127.0	0.57	<0.05	10.20	0.371
W599926		7.2	530	102.0	133.0	<0.002	0.14	18.95	16.8	<1	1.5	119.0	0.58	<0.05	9.77	0.368
W599927		8.0	540	21.3	153.0	<0.002	0.50	24.6	18.1	<1	2.1	97.8	0.57	<0.05	10.95	0.378
W599928		9.6	540	55.8	152.5	<0.002	2.36	54.0	16.3	<1	2.4	77.1	0.58	<0.05	8.39	0.371
W599929		6.9	470	189.0	218	<0.002	3.26	42.5	17.4	<1	3.2	26.9	0.65	<0.05	13.05	0.340
W599930		20.9	1390	104.0	279	<0.002	2.23	86.4	5.7	1	7.3	42.7	1.91	<0.05	21.3	0.403
W599931		20.3	1390	109.0	274	<0.002	2.23	83.9	5.4	1	7.0	41.0	1.78	<0.05	21.3	0.396
W599932		7.5	480	67.7	176.5	<0.002	1.77	57.8	9.5	<1	3.5	30.5	0.92	0.06	16.55	0.240
W599933		19.7	1280	29.4	177.5	<0.002	1.64	64.0	4.8	<1	3.6	40.2	1.37	<0.05	14.50	0.331
W599934		15.7	1050	294	183.0	<0.002	1.85	53.6	3.9	<1	5.9	30.8	1.22	<0.05	14.50	0.287
W599935		19.9	1160	363	213	<0.002	1.92	68.1	4.3	<1	7.1	33.1	1.34	<0.05	17.25	0.304
W599936		16.3	1090	263	179.5	<0.002	1.92	49.2	4.0	<1	7.9	52.9	1.18	<0.05	14.90	0.281
W599937		14.4	1080	4230	179.5	<0.002	4.36	134.0	7.1	1	22.6	53.8	0.95	0.27	15.25	0.281
W599938		0.8	80	4.5	1.4	<0.002	0.01	0.26	0.2	2	<0.2	87.1	<0.05	<0.05	0.11	0.006
W599939		1.5	130	1715	150.5	<0.002	1.97	63.5	2.7	<1	11.0	20.0	0.84	<0.05	21.7	0.085
W599940		1.4	130	34.6	149.5	<0.002	0.41	18.60	3.3	<1	2.0	20.3	0.93	<0.05	23.6	0.102
W599941		1.1	110	13.4	145.5	<0.002	0.20	13.55	2.8	<1	1.8	17.7	0.91	<0.05	22.5	0.088
W599942		0.8	120	32.0	182.0	<0.002	0.30	15.90	3.2	<1	2.4	15.8	1.07	<0.05	27.1	0.112
W599943		1.0	120	198.0	153.0	<0.002	0.63	29.2	3.2	<1	7.6	20.9	0.93	<0.05	24.4	0.095
W599944		0.9	120	76.7	195.0	<0.002	0.28	18.90	3.4	<1	3.5	15.8	1.06	<0.05	27.4	0.107

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CERTIFICATE OF ANALYSIS WH20224817

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.1	1	0.1	0.1	2	0.5	0.005
W599905		3.46	5.6	14	1.9	15.2	538	102.5	0.020
W599906		3.47	7.2	14	3.1	19.1	202	92.7	0.018
W599907		3.41	6.6	17	5.9	17.9	242	99.7	0.041
W599908		3.09	6.9	14	3.0	15.2	147	95.9	0.020
W599909		3.30	6.4	19	4.1	17.7	300	101.5	0.015
W599910		3.94	6.4	17	4.0	19.0	117	103.5	0.009
W599911		2.42	4.1	62	5.4	11.0	2690	28.0	0.653
W599912		3.97	7.9	19	5.3	20.7	170	104.5	0.014
W599913		2.99	5.5	8	2.4	18.1	253	95.5	0.007
W599914		3.70	5.2	9	2.3	18.8	69	100.0	<0.005
W599915		4.22	9.4	8	1.6	20.2	52	96.6	0.005
W599916		3.62	5.2	8	1.6	17.8	92	97.4	0.007
W599917		3.56	6.6	13	2.0	16.8	93	101.5	0.007
W599918		1.70	4.1	48	4.3	9.0	>10000	21.7	2.73
W599919		4.07	8.0	6	1.5	20.2	59	99.9	0.008
W599920		4.35	13.2	2	0.9	15.8	90	64.1	0.012
W599921		4.90	11.2	23	2.2	18.1	147	78.0	0.013
W599922		5.36	8.3	77	4.1	20.8	58	122.5	0.027
W599923		5.04	3.9	129	4.2	17.8	251	140.0	0.032
W599924		5.00	3.6	134	3.0	13.7	138	140.0	0.011
W599925		4.16	4.9	131	1.2	17.6	103	142.5	0.005
W599926		4.14	3.0	127	1.3	17.8	114	139.0	<0.005
W599927		4.90	3.1	130	1.3	18.5	76	140.5	<0.005
W599928		5.83	2.6	129	2.6	15.5	242	120.5	0.018
W599929		5.64	3.5	122	5.4	17.7	223	122.5	0.097
W599930		14.65	20.5	66	8.4	17.9	66	370	0.386
W599931		13.90	19.7	65	7.8	17.5	62	364	0.392
W599932		7.09	8.2	66	4.8	18.1	189	159.5	0.721
W599933		9.25	9.6	58	5.1	11.9	100	280	0.189
W599934		8.40	9.3	48	6.2	10.7	373	261	0.357
W599935		8.96	11.2	50	6.8	12.6	593	276	0.456
W599936		7.71	10.1	48	4.7	12.3	384	250	0.128
W599937		5.85	15.9	58	5.2	15.0	5710	171.0	0.769
W599938		0.02	0.2	2	0.1	2.5	11	2.4	<0.005
W599939		2.62	5.1	5	1.4	14.9	2550	91.5	0.209
W599940		2.80	5.6	7	1.2	17.2	188	100.5	0.026
W599941		2.69	5.9	4	1.0	15.7	86	91.5	0.011
W599942		2.83	6.4	5	1.0	16.2	101	124.0	0.017
W599943		2.69	7.5	4	1.2	16.2	736	111.0	0.040
W599944		2.55	6.4	4	1.6	17.2	111	119.0	0.024

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224817

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	ME-MS61
	ME-OG62	Zn-OG62		

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE WH20224821

Project: Klaza

P.O. No.: Batch 44

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 5-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224821

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W595781		7.24		0.60	8.07	69.4	1140	1.23	0.08	4.89	0.69	39.3	16.8	27	10.70	37.7
W595782		2.82		2.83	7.33	344	1840	1.17	0.13	4.85	3.87	37.2	15.6	22	19.20	80.4
W595783		8.13		0.20	8.22	6.8	1340	1.17	0.07	5.05	0.26	40.9	17.7	30	7.42	40.8
W595784		4.96		0.24	6.82	16.7	2210	1.28	0.08	3.10	0.27	49.7	5.7	10	14.25	23.3
W595785		1.54		0.52	6.86	82.2	2350	1.61	0.11	2.94	0.48	52.9	5.6	9	16.50	13.2
W595786		4.58		0.18	6.96	11.8	1800	1.68	0.09	2.43	0.19	44.0	5.6	12	12.95	16.0
W595787		3.95		0.40	7.33	8.6	1650	1.87	0.07	1.91	0.40	55.1	5.2	11	11.50	16.1
W595788		5.15		0.01	0.12	<0.2	20	0.07	0.01	34.7	<0.02	1.02	0.8	1	0.06	1.5
W595789		1.63		2.72	6.55	329	520	1.78	0.05	2.85	8.10	51.7	5.8	8	13.70	23.2
W595790		4.32		1.13	6.40	178.0	580	1.56	0.06	2.65	2.50	48.2	5.8	9	12.55	11.2
W595791		1.71		2.57	6.43	357	510	1.48	0.08	3.95	5.92	54.2	6.9	8	14.70	20.2
W595792		3.98		0.38	7.43	43.6	1350	1.46	0.07	2.07	0.44	58.3	5.4	10	12.00	12.4
W595793		1.59		7.75	6.80	893	680	1.54	0.14	2.75	8.50	57.8	6.4	10	12.70	20.2
W595794		0.26		10.00	6.74	1960	190	1.39	5.76	1.80	37.9	47.8	11.6	29	17.35	203
W595795		5.58		0.65	7.19	26.9	1510	1.33	0.11	2.21	0.66	53.4	5.9	10	10.60	12.2
W595796		3.88		0.08	6.78	10.7	1590	2.18	0.34	3.29	0.18	57.4	6.6	24	18.65	3.5
W595797		1.89		4.37	7.24	31.6	3830	2.03	0.55	3.63	51.9	55.8	7.6	22	17.30	86.0
W595798		4.39		0.45	6.73	6.6	1090	1.90	0.15	3.24	3.19	53.0	6.1	21	21.7	13.4
W595799		4.72		0.66	6.47	7.7	2050	1.78	0.17	3.16	1.31	50.5	5.7	16	31.8	27.2
W595800		1.57		0.87	6.80	14.9	960	2.56	0.25	2.05	2.26	58.1	4.6	18	160.5	11.8
W598351		<0.02		0.85	6.92	15.0	930	2.51	0.25	2.10	2.39	58.4	4.6	18	165.5	11.5
W598352		4.88		0.49	6.61	8.3	3890	1.92	0.09	2.92	3.67	58.6	5.7	22	18.40	10.1
W598353		3.40		10.10	7.14	319	800	1.76	0.10	2.20	3.91	51.1	6.3	9	17.45	25.5
W598354		1.62		12.35	6.46	349	600	1.63	0.04	3.45	3.51	47.0	4.6	8	16.95	17.2
W598355		1.41		2.37	6.76	147.5	1620	1.70	0.06	2.46	1.76	45.6	4.1	8	14.80	10.5
W598356		1.34		1.78	7.27	114.5	1230	1.73	0.10	2.64	1.45	60.4	5.9	9	15.75	11.9
W598357		1.47		6.01	7.08	308	630	1.80	0.11	2.87	12.10	62.9	6.3	8	19.65	19.6
W598358		0.26	1.480	94.6	4.73	4070	320	1.07	50.3	1.54	198.5	32.4	61.0	34	10.20	1275
W598359		1.87		5.58	7.09	214	310	1.74	0.78	2.72	16.50	59.6	9.0	8	14.70	53.3
W598360		4.66		0.25	7.04	19.8	2570	1.50	0.18	2.38	0.27	46.6	5.5	10	14.40	13.7
W598361		4.61		0.45	7.68	33.5	770	1.44	0.52	3.28	0.49	36.6	5.9	9	11.35	57.4
W598362		1.41		3.32	8.14	350	680	1.54	0.33	2.69	10.50	32.8	7.3	5	12.70	69.5
W598363		0.64		2.37	8.03	284	650	1.49	0.29	3.33	2.05	41.2	9.5	5	12.95	57.3
W598364		5.21		0.61	8.01	47.4	1690	1.44	0.30	3.02	0.56	28.6	7.3	6	12.70	37.1
W598365		4.91		0.33	7.71	32.2	1140	1.30	0.22	3.32	0.28	24.1	5.7	4	15.45	25.4
W598366		2.05		0.13	7.93	16.9	880	1.41	0.77	3.60	0.25	31.9	6.5	5	16.80	17.5
W598367		1.81		0.18	8.13	28.5	930	1.68	0.23	3.34	0.27	29.7	6.1	7	15.60	20.8
W598368		1.99		4.89	7.01	2000	510	1.41	0.36	3.02	21.8	30.9	6.3	4	11.70	47.0
W598369		5.71		0.86	8.01	42.5	1300	1.61	0.45	3.66	0.60	28.1	9.0	5	19.25	89.4
W598370		3.09		0.15	8.10	12.0	2000	1.42	0.20	4.30	0.25	30.0	6.8	6	12.40	25.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224821

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W595781		5.13	19.75	0.12	0.7	0.055	1.62	18.1	34.0	1.86	1580	3.22	1.89	6.3	8.5	1320
W595782		4.91	17.90	0.11	0.5	0.053	1.85	18.3	60.2	1.47	2930	9.39	0.07	5.2	7.5	1140
W595783		5.27	20.7	0.12	0.6	0.059	1.54	19.5	14.5	2.18	1100	3.44	2.52	6.5	9.1	1360
W595784		2.43	17.65	0.13	1.0	0.033	3.28	24.7	74.0	0.96	844	4.02	0.80	9.2	2.7	540
W595785		2.51	17.50	0.13	0.9	0.033	3.50	26.6	23.9	0.90	2340	3.99	0.59	8.7	2.5	520
W595786		2.33	17.05	0.12	0.9	0.031	3.48	21.2	19.9	0.63	629	4.55	2.03	9.2	2.6	550
W595787		2.14	18.40	0.13	1.1	0.031	3.56	27.1	26.0	0.69	1510	4.21	1.33	10.1	2.5	540
W595788		0.10	0.38	0.07	<0.1	<0.005	0.04	1.1	1.0	1.69	101	0.08	0.05	0.2	0.6	70
W595789		2.94	16.85	0.10	1.0	0.033	3.01	25.1	8.1	0.69	15250	3.90	0.04	8.4	2.5	480
W595790		2.71	17.15	0.11	1.0	0.026	3.10	22.8	8.1	0.68	7860	3.81	0.04	8.4	2.3	500
W595791		3.81	15.80	0.11	0.9	0.028	2.84	29.0	9.1	0.98	14850	3.43	0.03	7.4	2.9	460
W595792		2.34	18.80	0.12	1.1	0.031	3.64	29.1	26.0	0.80	2400	3.35	0.32	9.8	2.6	550
W595793		3.27	16.60	0.12	1.1	0.039	3.12	30.9	13.8	0.92	4720	4.39	0.13	8.5	2.7	480
W595794		6.22	15.60	0.11	1.0	0.700	3.00	25.6	41.0	0.78	2100	8.93	0.07	7.0	18.0	560
W595795		2.18	18.80	0.13	1.2	0.031	3.50	25.7	39.5	0.86	1180	5.28	0.17	10.7	2.6	560
W595796		2.25	18.10	0.13	2.1	0.028	2.63	29.1	60.3	1.17	745	0.98	0.27	10.4	7.4	780
W595797		2.36	18.30	0.15	2.0	0.035	2.73	29.2	47.6	1.26	977	2.24	0.54	9.9	8.0	780
W595798		2.28	18.25	0.12	1.9	0.027	2.77	26.0	33.0	1.05	1240	0.97	0.27	10.1	6.8	770
W595799		2.07	17.60	0.12	1.5	0.031	2.87	25.1	36.1	0.68	1240	1.03	0.12	9.5	5.2	650
W595800		2.05	17.00	0.12	1.8	0.026	2.04	31.1	47.9	0.85	683	1.62	0.08	9.6	5.2	680
W598351		2.08	16.85	0.13	1.8	0.026	2.07	31.9	47.7	0.87	698	1.49	0.08	9.5	5.1	700
W598352		2.19	17.85	0.13	1.9	0.025	2.84	30.0	49.4	0.92	951	0.86	0.05	9.5	7.0	740
W598353		2.93	18.00	0.13	1.3	0.024	3.13	25.7	48.5	0.57	4230	4.69	0.02	8.9	2.5	510
W598354		3.10	15.75	0.11	1.0	0.015	2.88	24.9	10.6	0.91	9890	3.36	0.02	6.8	1.8	460
W598355		2.05	17.60	0.12	1.2	0.019	3.13	22.6	11.9	0.72	7670	3.49	0.02	8.6	2.0	500
W598356		2.64	18.15	0.13	1.3	0.023	3.39	31.5	29.1	0.87	4080	3.76	0.02	9.0	2.7	530
W598357		3.02	17.80	0.13	1.2	0.035	3.20	34.2	16.5	0.91	4970	3.70	0.02	7.9	2.9	500
W598358		11.70	12.25	0.11	0.7	4.42	1.96	17.1	30.9	0.54	1920	18.05	0.15	4.3	15.1	380
W598359		3.04	18.40	0.12	1.5	0.642	3.36	30.2	10.8	0.83	4140	7.20	0.03	8.7	2.4	500
W598360		2.30	17.75	0.12	1.2	0.022	3.93	22.8	39.1	0.77	935	5.80	0.47	8.3	2.2	520
W598361		2.33	19.35	0.11	1.1	0.057	1.90	16.2	75.6	1.03	1220	1.84	0.05	7.8	3.1	980
W598362		2.87	20.7	0.13	0.4	0.240	3.12	13.0	43.3	0.91	2050	1.63	0.04	8.0	2.5	1060
W598363		3.07	20.7	0.13	0.4	0.092	3.20	16.0	27.7	1.12	2680	1.76	0.04	8.1	2.5	770
W598364		3.24	20.8	0.09	0.4	0.076	2.04	11.8	98.0	0.89	1120	10.65	0.94	8.5	2.1	1220
W598365		2.83	19.55	0.10	0.4	0.053	1.83	10.2	129.0	0.96	1460	2.72	0.04	7.3	1.7	970
W598366		2.61	20.4	0.11	0.5	0.059	2.03	12.3	111.5	0.87	915	3.60	0.08	7.6	1.7	990
W598367		2.74	21.6	0.11	0.4	0.072	2.10	11.7	123.0	0.93	1280	1.70	0.05	9.3	1.8	1280
W598368		3.01	17.00	0.11	0.6	0.066	2.65	14.2	70.0	0.99	3140	1.78	0.03	6.6	1.8	860
W598369		3.22	19.85	0.10	0.5	0.072	2.25	12.1	59.8	0.98	1080	2.71	1.21	8.4	2.0	1050
W598370		3.55	21.3	0.11	0.5	0.066	1.91	12.2	10.3	0.74	881	2.64	3.22	9.0	2.1	1290

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Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224821

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W595781		32.6	43.4	0.002	0.15	7.87	17.0	1	1.3	731	0.36	<0.05	3.97	0.448	0.74	1.6
W595782		153.5	78.6	<0.002	0.66	32.3	15.4	1	1.4	364	0.31	<0.05	4.05	0.400	1.80	1.5
W595783		17.2	39.1	0.008	0.02	1.42	18.2	1	1.2	878	0.37	<0.05	4.34	0.459	0.43	1.4
W595784		20.3	130.5	<0.002	0.10	9.91	6.5	<1	2.2	197.0	0.70	<0.05	14.40	0.226	1.29	4.5
W595785		32.1	160.0	<0.002	0.83	9.88	6.5	<1	1.9	157.0	0.68	<0.05	14.85	0.217	2.02	5.3
W595786		22.5	133.0	<0.002	0.07	4.27	6.2	<1	1.4	367	0.70	<0.05	12.50	0.235	1.18	3.3
W595787		28.2	154.0	<0.002	0.11	5.36	6.5	<1	1.4	245	0.80	<0.05	16.80	0.232	1.29	4.1
W595788		<0.5	1.3	<0.002	0.01	0.08	0.2	1	<0.2	82.9	<0.05	<0.05	0.15	0.005	<0.02	0.1
W595789		358	138.5	<0.002	2.34	13.70	5.6	<1	4.0	74.7	0.69	<0.05	15.05	0.192	2.81	5.3
W595790		209	124.0	<0.002	2.04	11.10	5.9	<1	3.3	58.0	0.67	<0.05	14.60	0.203	2.70	12.4
W595791		303	148.0	<0.002	3.07	13.55	5.5	<1	3.0	82.5	0.61	<0.05	16.35	0.177	2.58	5.6
W595792		49.0	156.0	<0.002	0.49	7.89	6.5	<1	1.8	134.0	0.74	<0.05	18.30	0.224	1.76	6.6
W595793		993	163.5	<0.002	2.39	16.10	5.9	<1	2.4	97.7	0.66	<0.05	17.70	0.193	2.49	13.0
W595794		1875	176.0	<0.002	3.56	50.5	9.7	1	6.4	83.4	0.52	0.23	11.85	0.213	2.57	4.4
W595795		60.6	130.0	<0.002	0.14	10.45	6.7	<1	1.9	142.0	0.87	<0.05	15.60	0.233	1.38	3.1
W595796		28.9	83.9	<0.002	0.06	20.4	6.9	<1	1.7	527	0.74	<0.05	10.30	0.233	1.22	4.8
W595797		2760	92.4	<0.002	0.32	43.6	6.7	1	1.6	626	0.70	<0.05	10.50	0.228	1.42	7.5
W595798		239	84.5	<0.002	0.04	14.45	6.4	<1	1.9	408	0.72	<0.05	9.71	0.227	1.49	4.4
W595799		116.0	100.0	<0.002	0.05	14.55	6.0	<1	3.0	242	0.72	<0.05	11.85	0.215	1.53	3.7
W595800		64.3	113.5	<0.002	0.03	16.60	6.4	<1	1.7	267	0.73	<0.05	12.90	0.219	1.08	7.0
W598351		65.0	120.0	<0.002	0.03	16.55	6.4	<1	1.6	273	0.69	<0.05	13.05	0.220	1.12	7.2
W598352		76.6	95.9	<0.002	0.10	14.50	6.6	<1	1.5	289	0.69	<0.05	10.90	0.221	1.60	3.6
W598353		191.5	160.0	<0.002	1.77	24.1	6.1	<1	2.3	254	0.73	<0.05	17.30	0.204	2.65	5.6
W598354		218	159.0	0.002	2.31	24.8	5.6	<1	2.7	98.0	0.53	<0.05	14.20	0.181	2.59	11.3
W598355		174.0	151.0	0.002	1.01	16.00	6.1	1	3.1	95.4	0.68	<0.05	14.80	0.200	2.89	4.3
W598356		91.8	177.0	0.002	1.51	19.50	6.5	<1	1.5	215	0.72	<0.05	17.20	0.215	2.48	4.7
W598357		418	175.5	0.002	2.16	25.3	5.9	<1	2.8	170.0	0.64	<0.05	16.70	0.189	2.53	6.0
W598358		9450	115.0	<0.002	>10.0	246	7.2	2	10.9	94.4	0.34	2.00	7.86	0.138	1.82	4.7
W598359		619	172.0	0.002	2.31	16.85	6.1	<1	2.3	132.5	0.74	<0.05	18.80	0.188	4.15	6.0
W598360		22.9	160.5	0.002	0.27	8.26	6.0	<1	1.3	275	0.72	<0.05	15.10	0.213	1.82	5.6
W598361		28.0	63.0	<0.002	0.25	32.6	7.9	<1	2.4	337	0.51	0.11	4.10	0.245	1.91	3.2
W598362		338	126.5	<0.002	1.40	46.3	9.1	<1	3.4	200	0.49	<0.05	2.03	0.278	3.42	1.6
W598363		169.5	136.5	<0.002	1.21	41.2	12.8	<1	4.6	154.5	0.49	0.06	2.25	0.258	3.15	1.9
W598364		31.9	58.9	<0.002	0.39	23.9	8.9	<1	3.3	370	0.54	<0.05	1.89	0.296	1.46	0.9
W598365		20.5	50.9	0.002	0.30	22.8	7.4	<1	1.9	171.5	0.46	<0.05	1.54	0.240	1.57	1.2
W598366		15.4	49.7	<0.002	0.53	17.95	8.0	<1	3.1	205	0.48	0.34	2.08	0.250	1.46	1.6
W598367		14.2	56.5	<0.002	0.36	18.20	9.2	<1	3.6	190.5	0.60	<0.05	1.71	0.310	1.74	1.0
W598368		422	105.0	<0.002	1.92	34.7	6.7	<1	3.3	91.7	0.49	0.08	6.49	0.212	2.48	2.3
W598369		28.4	74.4	<0.002	0.59	33.7	8.6	<1	2.7	448	0.62	0.15	4.62	0.263	1.59	2.3
W598370		22.1	43.1	0.002	0.06	3.65	8.5	<1	2.7	937	0.58	<0.05	1.73	0.309	0.74	1.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 16-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20224821

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W595781		156	0.9	17.2	165	17.7	0.021
W595782		136	2.7	15.8	606	13.1	0.070
W595783		161	0.6	18.0	109	15.9	0.006
W595784		55	2.1	16.0	80	22.9	<0.005
W595785		52	2.3	16.4	83	23.6	0.024
W595786		56	1.9	14.2	66	23.1	0.007
W595787		53	2.0	15.5	78	28.4	<0.005
W595788		1	0.1	2.1	4	1.6	<0.005
W595789		47	2.4	15.2	1010	26.7	0.092
W595790		51	2.1	15.1	262	26.2	0.027
W595791		45	1.9	16.6	744	25.0	0.105
W595792		55	1.7	16.3	96	29.4	0.010
W595793		48	1.6	17.6	1100	26.8	0.089
W595794		66	5.9	12.3	2960	30.5	0.647
W595795		55	3.2	17.3	106	32.9	0.005
W595796		56	1.4	13.2	116	72.4	<0.005
W595797		58	1.4	12.4	2670	66.3	0.027
W595798		56	1.6	11.7	346	61.8	<0.005
W595799		52	2.2	12.8	212	47.0	<0.005
W595800		51	7.9	12.3	290	59.6	<0.005
W598351		52	7.7	12.3	296	60.2	0.005
W598352		53	2.0	12.4	425	61.6	<0.005
W598353		49	3.3	15.3	522	35.2	0.195
W598354		46	2.2	15.1	471	30.0	0.331
W598355		49	2.4	14.1	318	34.7	0.086
W598356		52	2.5	17.9	182	35.6	0.038
W598357		47	3.4	16.8	1180	32.4	0.136
W598358		49	4.3	9.9	>10000	23.2	2.85
W598359		47	2.6	17.2	1720	37.4	0.066
W598360		51	2.5	14.2	81	33.1	0.009
W598361		73	3.8	13.4	74	39.1	0.007
W598362		89	3.3	14.9	963	9.7	0.066
W598363		81	3.2	20.1	188	10.4	0.064
W598364		96	2.9	15.5	94	8.6	0.019
W598365		77	2.3	13.4	69	8.8	0.009
W598366		71	1.0	15.3	85	10.6	0.007
W598367		91	1.7	16.8	89	8.8	0.007
W598368		69	2.7	13.4	1820	12.7	0.212
W598369		85	2.0	15.9	92	12.2	0.028
W598370		97	1.1	16.0	70	9.5	0.014

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 16-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20224821

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226262

Project: Klaza

P.O. No.: Batch 35

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226262

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599292		4.13		0.37	6.97	75.6	150	1.28	2.12	3.35	0.09	30.3	10.2	13	12.45	224
W599293		7.87		0.30	7.69	60.6	390	1.53	1.75	1.55	0.15	56.8	14.1	13	10.65	176.5
W599294		8.05		0.25	7.38	25.4	350	1.42	2.09	2.12	0.21	35.1	10.2	11	11.80	134.0
W599295		9.85		0.35	7.52	60.0	590	1.45	1.41	2.28	0.15	37.8	12.1	12	10.15	278
W599296		9.67		0.26	7.84	16.2	430	1.43	1.42	2.06	0.16	37.8	11.2	12	14.85	195.0
W599297		0.26		9.68	6.49	1890	210	1.51	5.93	1.64	36.1	43.6	12.3	26	16.25	196.0
W599298		10.31		0.34	7.60	12.4	330	1.45	1.53	1.99	0.21	38.6	9.1	12	13.65	243
W599299		11.33		0.37	7.84	16.2	170	1.58	2.27	1.90	0.20	36.3	10.8	12	15.20	197.5
W599300		11.54		0.35	7.80	6.4	880	1.47	0.72	1.98	0.10	40.8	7.7	14	14.60	276
W595916		11.74		0.54	7.57	5.8	950	1.37	0.83	2.38	0.10	43.7	8.3	13	12.15	350
W595917		11.98		1.07	7.86	4.4	1160	1.44	1.15	2.52	0.10	43.6	8.7	16	11.00	623
W595918		12.65		0.50	8.10	10.1	250	1.49	1.51	2.46	0.09	40.4	9.8	13	11.50	266
W595919		10.43		0.32	7.68	7.6	170	1.39	1.39	2.13	0.13	38.6	15.5	13	14.40	334
W595920		5.13		0.01	0.11	<0.2	20	0.09	0.01	33.7	<0.02	1.00	0.5	2	0.05	3.0
W595921		9.78		0.38	7.70	16.7	110	1.19	1.88	2.25	0.26	40.3	13.1	12	18.10	265
W595922		9.92		0.39	7.52	17.4	110	1.32	2.39	2.06	0.14	37.0	16.2	13	11.50	274
W595923		10.30		1.35	6.80	94.9	150	1.12	6.96	3.81	0.19	31.7	7.9	11	10.10	1340
W595924		10.15		0.49	7.82	12.0	260	1.54	1.82	2.76	0.15	42.9	11.2	13	11.70	385
W595925		10.12		0.26	6.62	8.0	190	1.12	1.62	4.00	0.09	31.6	9.9	10	10.45	193.0
W595926		10.76		0.25	5.84	10.2	130	0.77	2.24	7.86	0.09	26.0	9.3	11	6.95	91.1
W595927		0.26	1.480	94.1	4.76	3990	80	0.95	50.5	1.50	195.5	29.2	60.0	34	9.53	1330
W595928		11.95		0.62	6.91	28.1	210	1.09	2.24	3.93	0.31	35.6	8.6	11	8.79	448
W595929		10.04		0.40	7.70	22.4	690	1.19	1.79	2.27	0.14	39.3	8.8	12	9.06	333
W595930		1.96		0.13	8.10	18.5	360	1.27	2.26	2.03	0.08	68.4	9.0	22	9.07	39.9
W595931		11.58		0.50	7.61	44.6	330	1.38	1.39	2.47	0.18	38.8	8.7	11	11.30	480
W595932		11.32		0.41	7.66	101.5	260	1.30	1.41	2.39	0.19	43.6	8.4	12	10.25	336
W595933		3.52		0.36	7.73	90.4	320	1.18	1.46	2.21	0.18	42.3	8.8	12	9.85	298
W595934		10.44		0.35	7.75	7.6	380	1.35	1.09	2.42	0.11	40.9	10.8	13	14.70	302
W595935		8.85		0.24	7.58	11.3	170	1.49	2.85	2.35	0.05	69.0	6.0	17	10.65	219
W595936		11.20		0.23	7.83	34.8	150	1.43	1.94	2.36	0.09	71.8	7.7	19	7.95	132.5
W595937		9.42		0.47	8.24	56.1	200	1.69	3.53	2.47	0.45	79.1	6.5	17	12.50	535
W595938		<0.02		0.41	7.59	52.8	240	1.59	3.24	2.27	0.34	73.4	6.0	17	11.70	523
W595939		5.96		0.26	8.07	13.3	260	1.43	1.17	2.14	0.21	39.5	12.2	12	17.90	254
W595940		7.73		0.26	7.84	7.3	290	1.43	0.81	1.44	0.12	42.8	9.3	14	18.25	186.0
W595941		11.19		0.32	7.78	7.3	420	1.31	1.22	2.74	0.15	38.7	9.2	13	14.95	287
W595942		11.98		0.29	7.84	7.4	270	1.49	1.07	1.97	0.10	41.5	9.6	13	16.10	249
W595943		12.02		0.48	7.68	7.7	650	1.50	2.02	2.00	0.14	45.8	8.6	13	16.80	319
W595944		12.05		0.57	8.02	11.1	160	1.48	1.78	2.01	0.11	48.0	12.0	14	14.00	459
W595945		11.42		1.54	7.69	67.4	310	1.99	4.03	2.41	0.44	70.0	7.7	20	9.43	435
W595946		11.78		0.95	7.47	44.4	200	1.46	8.70	2.84	0.30	53.5	8.2	13	11.15	354

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226262

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599292		4.53	19.20	0.10	1.0	0.025	3.08	16.5	38.7	0.94	187	5.43	0.10	2.8	7.2	570
W599293		3.83	17.95	0.11	0.6	0.023	2.15	34.5	36.4	0.84	351	4.57	0.04	2.7	6.9	530
W599294		3.43	16.60	0.09	0.5	0.018	2.09	19.9	33.2	0.95	218	1.78	0.71	2.8	5.2	560
W599295		3.23	17.80	0.11	0.6	0.036	1.71	19.8	30.4	0.96	172	1.53	0.92	2.2	5.3	550
W599296		3.37	17.55	0.10	0.6	0.027	2.39	20.2	31.8	0.97	101	21.3	1.30	3.4	4.0	560
W599297		5.72	15.40	0.10	1.1	0.662	2.78	25.8	43.4	0.73	1920	8.69	0.06	6.5	16.3	500
W599298		3.68	17.80	0.09	0.6	0.025	2.20	20.7	31.0	0.88	106	2.27	1.18	3.4	5.3	520
W599299		4.27	19.35	0.11	0.5	0.023	3.10	19.5	33.6	1.18	76	6.40	1.31	3.5	5.8	540
W599300		3.17	17.45	0.10	0.5	0.024	2.39	23.6	28.1	1.23	118	7.51	2.08	3.7	5.0	550
W595916		3.27	17.40	0.12	0.5	0.048	2.00	26.0	23.9	1.23	154	6.73	2.03	4.4	4.8	560
W595917		3.55	18.15	0.10	0.5	0.057	2.24	25.1	24.9	1.26	208	3.02	2.15	5.1	5.3	570
W595918		3.86	17.00	0.11	0.5	0.045	2.81	23.3	23.6	1.30	160	1.64	1.76	2.5	5.2	600
W595919		4.39	17.25	0.10	0.5	0.017	2.36	21.5	27.8	1.27	97	2.90	1.97	3.5	5.2	560
W595920		0.17	0.40	0.07	<0.1	<0.005	0.02	1.2	1.0	1.27	93	0.11	0.05	0.1	0.5	60
W595921		4.94	17.25	0.12	0.4	0.022	2.65	22.9	23.7	1.34	95	7.23	1.53	3.3	5.3	540
W595922		5.48	21.0	0.13	0.5	0.038	3.66	20.7	19.5	1.08	107	8.85	0.40	2.6	5.4	540
W595923		4.82	17.30	0.12	0.5	0.053	2.78	18.4	14.9	0.64	160	6.27	0.34	2.7	4.4	490
W595924		3.88	17.65	0.13	0.5	0.029	3.01	25.5	22.0	1.16	168	4.43	0.88	2.9	4.7	570
W595925		3.86	16.55	0.10	0.4	0.012	2.43	18.5	21.2	0.81	117	5.38	0.51	2.6	3.8	450
W595926		4.70	16.20	0.10	0.4	0.013	1.73	14.7	21.7	0.39	185	6.64	0.04	3.0	3.7	440
W595927		11.75	12.00	0.11	0.8	4.26	1.98	16.0	25.1	0.54	1880	17.10	0.15	4.4	14.9	370
W595928		4.52	19.50	0.11	0.4	0.024	2.23	20.1	24.5	0.66	119	6.02	0.55	3.1	4.8	520
W595929		3.43	18.90	0.10	0.7	0.020	2.03	22.6	26.9	0.85	155	2.82	0.39	3.3	5.0	540
W595930		3.22	18.05	0.14	3.3	0.013	3.90	36.7	34.7	0.78	97	2.80	0.12	6.1	8.6	1380
W595931		3.58	18.15	0.10	0.7	0.021	2.37	21.4	26.2	0.94	96	2.34	1.25	3.5	4.4	510
W595932		3.36	17.60	0.09	0.6	0.019	0.97	24.6	52.6	0.95	152	9.54	0.08	3.7	4.9	530
W595933		3.11	17.25	0.09	0.6	0.020	1.09	24.7	50.6	0.92	125	3.96	0.13	3.7	4.4	520
W595934		3.65	18.25	0.11	0.5	0.017	2.23	23.3	25.2	1.10	132	7.04	1.55	4.1	5.4	550
W595935		4.06	19.60	0.14	3.8	0.006	2.63	38.1	60.3	1.14	86	3.06	0.09	3.5	9.7	1620
W595936		4.99	20.7	0.14	3.9	0.006	2.84	40.3	51.5	1.26	93	4.21	0.09	3.3	10.8	1680
W595937		4.08	20.7	0.15	3.6	0.009	3.07	45.2	36.2	1.32	89	4.23	0.08	3.0	9.3	1620
W595938		3.90	19.55	0.14	3.5	0.011	2.83	42.8	34.6	1.22	102	4.06	0.08	3.3	8.7	1450
W595939		4.12	17.40	0.10	0.8	0.015	2.57	22.0	39.9	0.91	109	2.24	0.83	4.6	4.9	570
W595940		4.00	16.80	0.10	0.7	0.013	2.77	24.8	30.1	1.16	99	1.97	2.05	3.8	4.9	550
W595941		3.40	17.70	0.10	0.7	0.016	2.66	21.9	34.5	1.14	108	2.81	1.61	3.9	4.5	580
W595942		4.20	16.35	0.10	0.6	0.016	2.48	23.9	32.6	1.39	133	7.37	1.51	3.7	4.8	540
W595943		3.70	17.55	0.11	0.5	0.033	2.45	24.5	27.2	1.22	142	8.01	2.17	4.4	5.1	550
W595944		4.80	17.15	0.11	0.6	0.034	2.57	24.9	29.1	1.06	135	7.46	1.72	3.5	4.9	560
W595945		3.26	18.65	0.13	4.2	0.053	3.12	37.2	39.8	0.86	229	3.16	0.18	5.6	7.1	1240
W595946		4.50	17.45	0.11	1.4	0.034	2.92	28.4	44.7	0.98	178	4.75	0.30	3.3	5.0	680

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226262

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599292		10.6	154.0	0.003	4.53	19.50	8.5	2	7.2	100.5	0.21	0.22	8.26	0.121	2.33	3.7
W599293		14.5	143.0	0.011	3.18	30.5	11.7	1	4.2	71.8	0.22	0.27	11.45	0.129	2.08	4.4
W599294		11.9	111.0	0.004	2.99	10.30	11.3	1	3.5	189.0	0.23	0.23	8.83	0.143	1.92	3.7
W599295		8.6	106.0	<0.002	2.66	21.4	11.7	1	3.4	229	0.21	0.11	10.40	0.124	1.79	3.0
W599296		10.7	133.0	0.003	3.04	3.40	10.8	1	5.4	251	0.30	0.20	11.65	0.153	1.99	4.1
W599297		1770	162.5	<0.002	3.26	49.3	9.2	<1	6.3	79.5	0.57	0.27	12.30	0.196	2.67	4.9
W599298		13.8	110.5	<0.002	3.07	2.68	11.4	1	6.2	249	0.31	0.17	11.65	0.156	1.85	3.5
W599299		12.0	171.0	<0.002	4.12	1.18	12.1	2	6.5	249	0.30	0.29	11.75	0.150	2.49	3.3
W599300		8.3	129.0	<0.002	2.00	0.72	11.3	1	3.6	487	0.34	0.09	11.70	0.183	2.32	3.6
W595916		8.0	110.0	<0.002	1.90	0.71	11.8	1	3.9	477	0.36	0.12	11.30	0.219	1.91	3.0
W595917		8.5	106.0	<0.002	1.75	0.72	11.8	1	3.6	456	0.44	0.12	11.55	0.242	2.01	3.2
W595918		8.1	168.0	<0.002	3.58	2.17	11.7	1	3.6	340	0.21	0.19	10.05	0.141	2.31	2.8
W595919		9.5	126.5	<0.002	4.01	0.76	11.7	3	4.6	434	0.29	0.19	10.10	0.172	1.98	3.1
W595920		0.6	0.7	<0.002	0.01	0.12	0.2	1	<0.2	86.2	<0.05	<0.05	0.12	0.005	<0.02	0.2
W595921		11.1	145.0	<0.002	4.57	1.41	12.0	3	4.3	430	0.28	0.31	9.67	0.168	2.17	3.2
W595922		10.4	211	<0.002	5.19	1.53	13.0	4	11.4	136.0	0.25	0.25	9.87	0.137	2.53	3.4
W595923		13.3	162.0	<0.002	4.84	20.2	10.6	3	6.4	148.0	0.23	0.63	9.60	0.129	2.12	3.4
W595924		10.0	158.5	<0.002	3.36	2.10	11.7	1	3.5	256	0.26	0.24	11.40	0.149	2.44	3.4
W595925		8.0	134.0	<0.002	3.80	1.19	9.8	2	4.6	162.5	0.22	0.22	9.52	0.124	1.92	2.9
W595926		7.4	106.5	<0.002	4.29	1.71	9.1	2	6.5	121.0	0.25	0.82	8.12	0.134	1.40	3.1
W595927		9540	111.0	0.002	>10.0	233	7.0	2	10.9	89.5	0.37	1.92	7.33	0.141	1.80	4.7
W595928		17.8	102.0	<0.002	4.47	7.04	11.0	2	7.4	176.5	0.27	0.41	9.70	0.147	1.68	3.6
W595929		10.0	94.8	<0.002	2.71	12.20	11.5	1	4.0	146.0	0.35	0.34	11.85	0.152	1.83	3.6
W595930		9.0	146.0	<0.002	2.92	6.45	6.6	1	3.2	153.0	0.40	0.55	8.36	0.185	2.81	4.1
W595931		10.1	101.5	<0.002	3.15	8.56	10.3	1	4.4	281	0.35	0.21	11.55	0.148	1.84	4.1
W595932		10.8	61.4	0.002	2.62	40.9	11.6	1	4.1	125.0	0.33	0.14	11.55	0.172	1.12	4.6
W595933		10.4	71.1	0.002	2.54	35.2	11.2	2	4.1	127.0	0.34	0.12	12.10	0.174	1.19	4.1
W595934		8.9	130.5	<0.002	2.54	1.60	11.9	2	3.4	348	0.36	0.24	11.25	0.200	2.15	4.0
W595935		4.4	124.5	<0.002	3.95	6.17	6.6	2	4.2	131.0	0.23	2.41	9.56	0.136	1.73	4.3
W595936		5.7	141.5	0.002	4.83	7.60	7.2	2	5.9	96.7	0.21	1.44	9.80	0.138	1.63	4.5
W595937		8.0	151.0	0.004	3.96	17.75	7.4	2	4.9	69.1	0.22	2.00	11.10	0.125	2.04	5.6
W595938		3.8	142.0	0.003	3.55	17.00	7.0	2	4.7	63.9	0.22	1.77	10.60	0.127	1.91	5.3
W595939		9.8	128.5	<0.002	3.72	9.70	11.4	3	4.2	224	0.55	0.09	12.15	0.185	2.25	6.3
W595940		7.6	157.0	<0.002	3.22	1.44	11.0	2	4.2	405	0.34	0.11	12.40	0.169	2.55	5.1
W595941		8.7	129.0	<0.002	2.81	3.30	10.9	2	4.6	350	0.36	0.17	11.30	0.181	2.28	4.2
W595942		7.1	136.5	<0.002	3.35	5.82	11.1	2	4.0	334	0.35	0.12	12.65	0.179	2.14	3.8
W595943		9.0	133.0	<0.002	2.48	1.82	11.5	1	4.2	767	0.36	0.25	11.35	0.206	2.46	3.3
W595944		6.8	143.5	<0.002	3.97	3.41	12.5	3	5.2	339	0.31	0.09	12.15	0.175	2.20	4.8
W595945		38.6	181.0	<0.002	3.23	33.8	7.1	2	4.9	105.0	0.36	0.51	10.15	0.184	2.00	4.7
W595946		26.2	155.5	<0.002	4.32	14.55	9.9	2	7.1	149.0	0.27	0.28	11.50	0.136	1.99	3.8

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226262

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W599292		78	9.8	7.4	18	34.8	0.041
W599293		82	8.0	10.3	31	19.3	0.037
W599294		87	5.2	10.6	26	13.5	0.019
W599295		94	4.9	10.1	31	11.7	0.021
W599296		90	8.4	10.7	18	12.6	0.020
W599297		62	5.9	11.6	2720	27.3	0.650
W599298		85	8.3	12.1	20	12.9	0.024
W599299		95	11.7	13.4	19	12.0	0.022
W599300		88	6.5	13.1	17	11.0	0.030
W595916		91	5.4	13.9	20	9.7	0.035
W595917		95	8.5	14.1	23	11.0	0.039
W595918		92	7.3	10.2	23	9.8	0.030
W595919		88	8.9	13.0	18	11.1	0.025
W595920		1	0.1	2.2	3	1.6	<0.005
W595921		91	6.5	12.2	17	9.2	0.032
W595922		93	11.1	10.5	14	9.8	0.026
W595923		79	11.3	11.2	30	10.0	0.099
W595924		87	7.2	10.5	24	11.0	0.035
W595925		73	8.7	9.6	15	9.3	0.023
W595926		74	11.5	11.1	12	8.5	0.017
W595927		49	4.4	9.7	>10000	22.0	2.82
W595928		83	8.7	11.0	30	9.6	0.041
W595929		86	7.0	13.4	18	14.9	0.030
W595930		64	4.4	12.2	7	129.5	0.013
W595931		80	6.6	12.1	17	14.4	0.037
W595932		85	8.9	12.3	22	11.9	0.024
W595933		85	9.4	11.8	20	12.2	0.029
W595934		89	9.4	11.6	17	12.6	0.029
W595935		68	8.8	12.5	8	143.0	0.023
W595936		76	8.8	12.6	9	147.5	0.012
W595937		72	9.3	13.3	21	136.5	0.021
W595938		67	9.0	11.8	13	127.5	0.024
W595939		90	10.9	13.4	18	14.8	0.017
W595940		84	15.9	13.5	13	14.7	0.019
W595941		89	8.4	13.9	17	16.1	0.024
W595942		86	9.2	12.3	15	12.3	0.019
W595943		90	4.7	13.9	20	10.9	0.026
W595944		83	10.3	12.3	17	13.1	0.032
W595945		65	7.4	11.4	45	157.5	0.032
W595946		78	8.0	9.4	29	46.8	0.036

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226262

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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1016 - 510 W HASTINGS STREET
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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226265

Project: Klaza

P.O. No.: Batch 39

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226265

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W595947		11.82		0.64	7.06	11.0	110	1.31	6.99	2.21	0.17	45.2	10.0	11	12.75	360
W595948		9.08		0.65	7.48	62.5	200	1.60	14.35	1.65	0.43	48.2	10.5	12	14.95	296
W595949		9.87		0.13	7.66	20.8	220	1.81	1.34	1.77	0.12	48.1	7.6	12	15.10	59.7
W595950		9.26		2.20	7.51	17.2	230	2.07	1.59	2.23	0.18	53.4	9.4	12	17.65	36.4
W596301		10.25		0.11	6.72	43.0	170	1.69	2.59	2.05	0.19	29.4	9.3	11	9.69	87.3
W596302		0.26		9.87	6.60	1925	210	1.39	6.21	1.68	39.0	50.3	11.0	29	16.90	197.0
W596303		10.05		0.21	7.03	34.8	110	1.39	2.90	1.57	0.29	42.8	11.0	17	7.08	28.7
W596304		9.46		0.10	7.97	16.1	350	1.99	2.78	0.79	0.17	76.8	6.7	21	8.98	39.1
W596305		8.24		0.10	7.97	31.9	380	1.97	1.54	1.10	0.20	73.0	7.7	23	7.04	97.3
W596306		6.75		0.97	6.73	23.2	480	1.01	2.57	0.19	3.17	39.8	2.0	5	4.85	146.5
W596307		5.22		1.23	7.19	20.1	370	1.96	3.53	0.32	0.72	47.9	4.5	8	7.54	233
W596308		8.17		0.58	7.27	5.1	330	1.52	2.09	0.74	0.69	52.2	7.0	9	8.35	52.0
W596309		8.80		0.63	6.84	4.3	460	0.93	1.31	0.14	0.52	39.3	2.8	6	5.16	22.8
W596310		0.26	1.480	93.4	4.64	4000	90	0.96	55.7	1.56	199.0	32.2	61.2	35	9.85	1265
W596311		8.38		0.15	7.59	5.5	180	1.50	1.93	1.07	0.11	63.2	6.2	12	8.03	6.8
W596312		9.68		0.11	7.40	3.5	110	1.22	1.82	1.28	0.07	64.1	7.2	12	6.91	7.8
W596313		9.77		0.78	7.54	2.7	210	1.53	5.01	1.30	0.21	60.6	6.0	11	8.58	6.4
W596314		8.83		0.87	7.45	2.9	340	1.72	7.43	1.38	0.21	56.7	6.3	11	8.93	8.3
W596315		5.14		0.01	0.09	0.6	20	0.08	0.06	34.3	<0.02	1.13	0.7	1	0.06	3.1
W596316		5.99		0.08	7.83	3.5	550	1.61	1.88	1.92	0.05	59.9	6.3	11	9.46	7.4
W596317		6.59		0.06	7.89	2.7	280	1.49	2.05	1.80	0.04	51.3	7.2	12	7.89	6.8
W596318		10.23		0.10	7.70	7.3	130	1.29	2.35	1.22	0.05	51.4	9.6	15	7.82	14.9
W596319		12.58		0.07	7.54	4.4	250	1.33	2.54	1.14	0.04	61.3	5.7	15	7.70	15.3
W596320		11.18		0.50	7.58	7.7	260	1.32	2.80	0.99	0.27	57.0	6.4	14	8.73	19.7
W596321		9.78		0.10	7.92	16.1	140	1.35	2.63	1.39	0.05	51.3	8.2	15	9.88	36.8
W596322		10.12		1.18	7.43	48.5	200	1.26	2.11	2.06	0.63	40.8	10.9	12	10.30	291
W596323		11.44		0.38	7.05	23.0	230	1.21	2.02	2.95	0.21	32.2	10.2	12	11.10	276
W596324		<0.02		0.39	7.50	22.9	290	1.17	2.14	2.96	0.22	42.0	9.8	12	12.00	270
W596325		12.57		1.03	7.29	23.9	90	1.26	4.03	2.56	0.57	29.7	20.9	12	12.45	166.5
W596326		10.89		0.24	7.21	22.2	280	1.25	0.83	2.55	0.14	31.0	10.5	12	13.60	224
W596327		10.80		0.26	7.56	82.4	290	1.06	1.49	2.33	0.15	39.8	12.0	15	9.98	256
W596328		8.71		0.21	7.49	33.7	410	1.60	2.57	2.31	0.16	50.9	8.6	19	12.15	194.5
W596329		2.60		0.21	7.41	31.2	350	1.59	2.41	2.20	0.16	53.9	8.1	19	11.85	216
W596330		11.34		0.25	7.25	18.7	490	1.76	2.51	2.81	0.11	48.3	6.8	19	11.60	293
W596331		9.11		0.27	7.41	45.0	450	1.72	2.61	2.33	0.09	58.3	5.9	14	9.41	164.5
W596332		8.66		3.23	7.37	134.0	600	1.73	8.92	1.91	1.63	63.1	5.6	15	10.15	432
W596333		8.57		0.52	7.50	103.0	600	1.70	3.89	2.27	0.13	61.6	6.5	18	11.20	399
W596334		9.07		0.62	7.37	59.8	290	1.81	3.51	1.93	0.47	59.9	7.1	15	11.75	219
W596335		10.02		4.71	7.40	67.8	310	1.69	4.14	1.75	1.55	61.1	7.3	15	9.93	284
W596336		9.06		0.24	7.55	21.0	310	1.63	1.76	2.84	0.07	58.3	8.0	19	10.70	139.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226265

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W595947		4.75	15.85	0.12	0.4	0.031	2.52	22.9	25.9	0.96	110	8.78	1.17	2.7	4.5	510
W595948		4.26	19.75	0.15	1.4	0.026	2.77	25.5	39.2	0.84	79	9.87	0.34	3.6	5.4	640
W595949		3.48	21.4	0.11	2.2	0.008	2.91	23.9	74.1	1.11	113	1.59	0.12	3.2	5.9	790
W595950		4.04	21.9	0.14	1.9	0.011	2.44	26.6	63.4	1.10	143	0.95	0.13	3.1	6.4	730
W596301		7.29	22.7	0.12	1.7	0.011	2.45	13.6	41.5	1.06	109	0.81	0.12	2.4	6.4	650
W596302		5.87	15.80	0.15	1.0	0.728	2.87	26.3	42.6	0.74	1950	8.69	0.07	6.5	16.7	510
W596303		7.53	21.3	0.16	2.3	0.016	2.84	21.3	25.9	0.94	111	3.49	0.20	2.9	10.2	730
W596304		2.95	19.00	0.15	2.9	0.006	2.80	41.6	63.5	0.62	95	0.24	0.30	3.5	13.4	930
W596305		3.51	21.4	0.10	3.9	0.012	3.12	37.3	37.0	0.73	150	1.45	0.36	3.8	15.8	960
W596306		2.64	22.6	0.08	2.6	0.030	3.37	19.5	9.6	0.31	135	2.14	0.09	11.9	1.9	310
W596307		3.37	21.0	0.06	2.9	0.025	3.54	23.8	16.9	0.43	145	2.27	0.10	9.3	4.1	550
W596308		3.76	19.35	0.12	2.7	0.032	3.60	25.6	15.8	0.62	249	3.60	0.10	7.5	5.2	640
W596309		2.68	19.35	0.08	2.7	0.011	3.33	19.1	12.3	0.24	37	2.32	0.10	15.2	1.4	360
W596310		11.50	11.95	0.06	0.7	4.46	1.95	15.1	30.0	0.55	1910	18.40	0.15	4.3	15.5	390
W596311		4.49	18.40	0.09	2.5	0.012	3.28	29.9	28.2	0.54	74	2.03	0.18	4.2	4.6	820
W596312		5.36	18.50	0.11	2.2	0.005	3.22	29.3	31.2	0.67	88	3.75	0.16	3.1	5.1	780
W596313		4.48	17.00	0.08	2.2	0.021	3.57	29.3	30.0	0.97	243	0.91	0.11	2.5	4.6	820
W596314		3.56	17.25	0.09	2.3	0.008	3.42	27.5	52.6	1.00	221	0.62	0.12	2.7	5.0	810
W596315		0.11	0.38	0.11	<0.1	<0.005	0.03	1.1	1.3	1.30	93	0.07	0.03	0.1	0.3	70
W596316		2.86	16.40	0.19	2.3	<0.005	3.18	28.9	80.2	1.19	125	1.06	0.19	3.3	4.8	870
W596317		3.47	17.40	0.15	2.6	<0.005	2.83	25.4	71.8	1.10	90	0.97	0.25	3.1	6.0	870
W596318		4.31	17.35	0.12	1.9	0.011	3.00	24.0	38.5	0.85	84	11.75	0.14	2.9	7.3	730
W596319		3.85	18.10	0.12	2.3	0.006	3.44	30.2	33.2	0.82	102	2.38	0.10	3.9	5.3	830
W596320		4.04	17.30	0.11	2.1	0.017	3.52	29.4	23.0	0.74	224	2.37	0.09	3.9	5.6	790
W596321		4.65	17.95	0.11	1.6	0.006	2.70	25.2	45.0	0.78	94	2.67	0.12	3.8	5.9	780
W596322		3.91	15.30	0.11	0.4	0.018	2.43	20.9	32.4	0.87	213	10.05	0.43	2.6	5.0	550
W596323		3.66	15.95	0.08	0.5	0.011	2.18	15.1	30.7	1.11	143	25.2	0.68	2.6	5.1	550
W596324		3.74	16.40	0.12	0.4	0.014	2.19	21.3	31.9	1.16	152	30.3	0.67	2.8	5.3	550
W596325		4.74	16.15	0.07	0.5	0.023	2.72	13.4	26.9	1.04	210	2.90	0.68	3.2	5.2	530
W596326		3.34	15.45	0.09	0.6	0.014	2.11	14.1	40.0	0.94	103	6.89	0.81	3.5	4.9	530
W596327		4.08	15.30	<0.05	0.6	0.013	1.71	20.2	41.5	1.07	105	13.05	0.04	2.8	5.0	590
W596328		2.84	17.45	0.10	2.8	0.013	2.38	24.2	45.7	0.90	89	5.55	0.90	4.5	7.6	880
W596329		2.58	16.65	0.07	3.0	0.012	2.26	26.0	45.1	0.84	73	2.67	1.04	4.4	7.3	880
W596330		2.83	18.95	0.12	2.6	0.025	2.26	22.7	59.1	0.80	88	1.49	0.97	4.4	7.5	890
W596331		2.72	17.40	0.14	1.9	0.024	2.64	29.8	26.9	0.82	102	2.74	0.43	3.9	5.6	730
W596332		2.44	17.25	0.10	1.7	0.087	3.54	33.3	14.5	0.86	432	1.60	0.10	3.5	5.1	700
W596333		2.58	18.10	0.12	1.7	0.025	3.05	31.9	17.1	0.97	171	2.28	0.20	3.5	6.5	750
W596334		2.81	17.35	0.11	1.9	0.031	3.27	30.2	23.9	0.88	237	1.64	0.12	3.7	5.5	710
W596335		2.93	16.30	0.13	2.2	0.055	3.27	30.7	20.0	0.81	200	2.20	0.14	3.7	6.2	760
W596336		3.04	16.50	0.13	3.1	0.015	3.43	28.9	20.5	1.04	134	2.61	0.20	3.7	6.9	860

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226265

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W595947		13.6	130.5	<0.002	4.64	2.52	10.4	4	5.4	262	0.23	0.43	10.80	0.139	2.07	3.0
W595948		17.0	157.5	<0.002	4.37	38.5	9.6	3	7.6	148.0	0.27	5.90	11.80	0.155	2.17	4.8
W595949		5.9	174.0	0.002	3.40	17.60	7.7	2	4.9	128.5	0.23	0.24	10.10	0.137	2.33	5.7
W595950		7.4	160.5	<0.002	3.99	4.74	7.5	2	4.8	121.5	0.22	0.31	10.60	0.131	2.17	9.3
W596301		7.2	148.5	<0.002	7.73	4.88	6.9	4	7.0	175.0	0.16	0.73	9.11	0.111	1.81	5.6
W596302		1735	168.5	0.002	3.44	50.3	9.3	1	6.6	79.9	0.50	0.28	12.30	0.206	2.76	4.5
W596303		21.3	158.0	<0.002	8.07	4.33	6.9	3	7.4	256	0.20	0.59	9.59	0.117	1.83	4.3
W596304		3.7	151.0	<0.002	3.04	8.04	5.5	2	3.8	196.5	0.26	0.69	12.95	0.099	1.78	6.0
W596305		6.6	174.0	<0.002	3.46	19.30	6.7	2	5.7	170.0	0.31	0.21	11.80	0.123	2.04	7.9
W596306		115.5	179.0	<0.002	2.65	21.6	2.5	1	10.3	31.0	1.28	0.23	8.23	0.113	1.78	4.5
W596307		35.6	190.0	<0.002	3.36	17.85	3.4	2	8.2	79.8	0.96	0.17	8.26	0.113	1.81	4.8
W596308		41.2	215	<0.002	3.93	3.68	5.9	2	6.7	66.2	0.70	0.06	8.34	0.123	2.07	6.4
W596309		43.7	166.0	0.002	2.62	3.58	2.8	1	10.8	31.7	1.47	0.10	8.16	0.132	1.58	7.3
W596310		9290	114.0	<0.002	>10.0	232	6.9	1	11.3	91.4	0.36	1.90	7.14	0.145	1.92	4.3
W596311		9.1	188.0	<0.002	4.83	4.81	6.8	3	6.1	127.0	0.34	0.21	9.82	0.129	2.20	4.8
W596312		6.4	173.5	0.002	5.70	3.55	7.7	3	6.8	113.5	0.24	0.28	8.36	0.135	2.02	4.5
W596313		21.3	222	<0.002	4.71	2.28	7.7	2	4.7	92.0	0.19	0.15	8.85	0.114	2.39	3.9
W596314		23.4	216	0.002	3.64	4.07	7.1	2	4.0	117.0	0.21	0.15	8.64	0.112	2.48	3.6
W596315		0.8	0.9	<0.002	<0.01	0.09	0.2	<1	<0.2	86.2	<0.05	<0.05	0.09	<0.005	0.04	0.2
W596316		3.8	190.0	<0.002	2.81	3.90	6.8	2	2.7	172.0	0.25	0.37	9.08	0.132	2.52	6.7
W596317		5.3	156.5	<0.002	3.56	2.60	7.7	1	3.7	169.5	0.24	0.40	8.72	0.134	1.96	5.1
W596318		8.0	156.5	<0.002	4.48	2.59	9.2	3	5.9	92.4	0.23	0.30	8.60	0.140	1.85	3.4
W596319		3.7	196.0	<0.002	4.01	4.01	6.2	2	5.3	63.5	0.33	0.51	10.55	0.125	2.21	5.0
W596320		27.9	215	<0.002	4.22	5.68	5.9	2	5.1	54.8	0.33	0.54	10.90	0.123	2.30	3.9
W596321		7.1	161.5	<0.002	4.92	7.80	9.2	3	4.7	80.0	0.33	0.75	10.50	0.138	1.99	4.1
W596322		53.6	158.0	0.002	3.59	26.9	11.1	2	3.3	163.5	0.25	0.17	9.58	0.149	2.22	3.3
W596323		18.8	98.2	0.004	3.38	15.60	10.6	2	3.4	217	0.25	0.07	8.15	0.151	2.13	2.7
W596324		19.2	131.5	0.002	3.36	16.00	11.4	2	3.6	215	0.23	0.06	9.99	0.158	2.10	3.3
W596325		51.4	170.5	0.002	4.92	21.0	10.5	3	3.3	324	0.38	0.27	9.24	0.135	2.37	4.0
W596326		15.3	96.0	<0.002	2.87	7.27	10.3	2	3.2	309	0.31	0.05	10.10	0.172	1.85	3.8
W596327		10.3	99.8	<0.002	4.01	27.2	11.0	3	3.7	119.0	0.26	0.19	10.80	0.150	1.53	3.0
W596328		8.9	108.0	0.002	2.66	11.10	7.6	1	2.7	251	0.34	0.41	9.00	0.157	1.96	4.0
W596329		9.8	101.5	<0.002	2.48	11.70	7.1	1	2.9	273	0.36	0.38	9.34	0.152	1.84	4.2
W596330		7.2	110.0	<0.002	2.60	3.41	6.7	1	2.6	212	0.35	0.40	8.51	0.150	2.17	3.5
W596331		8.0	150.5	<0.002	2.63	13.70	6.1	1	2.5	131.5	0.31	0.68	10.70	0.121	2.28	3.9
W596332		85.8	254	<0.002	2.39	64.0	5.5	<1	2.7	82.1	0.29	0.72	11.05	0.109	2.78	3.9
W596333		7.0	203	<0.002	2.41	23.2	6.4	1	2.2	96.5	0.31	0.58	10.90	0.115	2.77	3.8
W596334		29.2	213	<0.002	2.72	16.35	6.0	2	2.8	103.0	0.32	1.00	10.90	0.107	2.54	3.8
W596335		210	210	<0.002	2.97	75.5	6.0	1	2.4	89.7	0.31	0.63	10.95	0.114	2.61	4.6
W596336		7.9	206	<0.002	2.96	3.72	6.8	1	3.1	146.0	0.29	0.65	10.10	0.122	2.68	4.4

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CERTIFICATE OF ANALYSIS WH20226265

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W595947		81	7.2	9.3	17	10.7	0.032
W595948		75	10.2	10.3	28	53.3	0.035
W595949		67	5.6	10.9	15	80.8	0.013
W595950		60	11.7	11.1	17	70.3	0.030
W596301		57	6.1	9.2	19	62.3	0.029
W596302		63	5.8	11.5	2720	28.8	0.669
W596303		61	7.0	9.2	32	92.9	0.025
W596304		47	7.5	12.8	13	125.0	0.050
W596305		57	8.4	12.3	17	145.5	0.018
W596306		16	12.1	6.6	267	62.2	0.013
W596307		26	12.9	10.0	60	95.0	0.018
W596308		47	10.8	10.3	51	83.1	0.010
W596309		19	9.5	7.8	43	68.4	0.013
W596310		49	5.1	9.2	>10000	22.1	2.87
W596311		56	8.3	9.9	16	91.1	0.017
W596312		69	8.7	9.3	9	75.7	0.012
W596313		67	8.8	8.3	25	72.6	0.010
W596314		63	7.2	8.8	25	78.5	0.013
W596315		1	0.1	2.0	3	1.5	0.010
W596316		64	5.2	9.4	12	73.8	0.010
W596317		72	7.2	10.1	8	90.6	0.010
W596318		81	10.8	9.1	11	71.5	0.014
W596319		55	12.7	9.5	7	85.9	0.011
W596320		52	14.3	8.8	27	73.8	0.009
W596321		71	8.8	9.6	13	62.3	0.013
W596322		83	9.5	7.9	63	10.5	0.020
W596323		88	8.1	8.4	25	8.6	0.028
W596324		88	8.5	9.9	25	9.0	0.026
W596325		80	10.0	8.8	55	10.4	0.021
W596326		81	8.5	10.0	16	13.0	0.020
W596327		86	11.0	10.7	24	12.2	0.018
W596328		67	5.9	11.2	17	116.5	0.019
W596329		63	5.3	11.0	18	121.0	0.017
W596330		60	3.4	9.7	18	110.0	0.011
W596331		50	4.7	9.2	15	72.5	0.026
W596332		46	3.6	8.1	122	58.3	0.028
W596333		50	3.0	9.1	24	63.0	0.021
W596334		47	5.1	9.0	47	61.5	0.018
W596335		48	4.0	9.2	123	83.4	0.026
W596336		56	6.6	10.5	14	126.0	0.014

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226265

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 18-DEC-2020
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CERTIFICATE WH20226270

Project: Klaza

P.O. No.: Batch 41

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226270

Sample Description	Method	WEI-21	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W595741		1.66			72.8	2.78	1095	180	0.95	19.65	2.99	98.3	36.1	6.8	7	11.10
W595742		4.68			2.07	7.07	1050	520	1.52	0.33	1.96	23.0	43.2	2.8	7	10.10
W595743		4.71			0.82	7.30	150.5	440	1.77	0.20	3.02	3.43	53.4	1.6	7	11.75
W595744		1.32			30.4	7.01	713	490	1.51	1.25	1.20	68.8	42.6	4.3	7	8.83
W595745		4.43			0.78	7.58	333	620	1.59	0.33	1.77	2.33	41.7	1.4	7	8.59
W595746		0.26		1.480	92.1	4.67	3970	280	1.05	50.4	1.49	195.0	30.8	58.0	35	9.68
W595747		4.79			0.21	7.82	8.5	2220	1.70	0.20	2.03	0.41	55.0	4.2	8	10.75
W595748		1.45			0.61	7.47	69.0	1220	1.85	0.60	2.10	0.58	51.6	3.3	7	12.75
W595749		4.55			0.51	7.21	30.5	1760	1.75	0.18	2.24	0.43	48.1	2.9	7	12.20
W595750		5.07			0.65	6.97	122.0	1530	1.87	0.25	2.36	3.53	46.2	2.9	7	20.0
W595751		2.03			36.3	6.95	430	230	1.62	17.55	1.37	87.0	48.3	6.4	7	7.45
W595752		4.92			0.22	7.61	9.0	2240	1.82	0.23	2.46	0.50	48.0	3.5	8	15.40
W595753		5.24			0.03	0.08	<0.2	20	0.06	0.02	33.2	0.06	1.11	0.6	2	<0.05
W595754		5.87			0.44	7.02	6.3	1740	1.55	0.20	2.53	5.03	46.6	3.3	8	11.10
W595755		2.35			3.42	7.10	18.0	880	1.46	5.81	2.69	8.76	33.5	7.8	8	6.31
W595756		5.85			0.21	6.80	8.6	770	1.61	0.65	3.00	0.21	40.2	2.7	7	7.54
W595757		6.10			0.42	7.57	22.0	1550	1.61	0.45	3.04	1.80	65.6	6.0	8	7.95
W595758		4.46			0.37	7.00	23.8	1130	1.62	0.21	3.28	0.98	40.7	2.3	7	12.30
W595759		0.26			10.50	6.72	1950	190	1.58	6.19	1.69	37.5	48.8	12.2	26	16.45
W595760		4.58			0.17	6.78	7.8	1190	2.09	0.23	3.21	0.25	34.9	1.4	7	11.25
W595761		4.79			0.21	7.14	9.3	1000	2.05	0.21	2.48	0.35	34.5	1.3	6	13.10
W595762		5.72			0.21	7.28	10.2	900	2.01	0.24	2.63	0.44	30.6	4.0	7	14.20
W595763		4.50			0.09	7.37	5.6	1610	1.95	0.19	2.92	0.10	42.7	2.8	8	10.30
W595764		4.99			0.11	7.36	7.6	1820	1.74	0.13	2.50	0.51	46.7	5.0	8	14.85
W595765		1.87			1.10	6.57	1145	910	1.51	0.35	2.28	8.65	30.9	1.6	6	13.50
W595766		<0.02			1.20	7.02	1230	900	1.51	0.41	2.34	9.03	39.3	1.7	6	14.20
W595767		4.94			0.21	7.13	20.6	1860	1.79	0.11	2.91	0.34	45.1	4.1	7	17.60
W595768		5.05			0.22	7.67	46.1	2330	1.84	0.10	2.40	0.47	56.9	5.1	10	10.80
W595769		1.72			33.6	6.19	3270	170	1.39	13.20	1.45	75.7	47.4	3.5	6	9.96
W595770		5.23			0.17	7.47	7.1	1810	1.78	0.12	2.79	0.19	43.2	4.3	9	8.15
W595771		6.07			0.07	7.60	6.3	2380	1.67	0.06	2.25	0.14	53.9	6.2	9	9.12
W595772		2.00			6.66	6.96	453	460	1.46	3.40	5.17	16.40	49.7	6.0	9	10.75
W595773		5.13			0.23	6.73	99.9	1550	1.46	0.06	2.90	0.31	45.6	5.8	6	16.25
W595774		2.12	1.220		27.8	6.97	354	690	1.48	1.65	1.81	51.6	51.4	4.8	8	12.05
W595775		0.70			13.70	7.44	382	750	1.75	0.65	1.24	52.7	46.7	5.4	6	12.85
W595776		5.63			0.09	7.73	5.0	2780	1.63	0.06	2.73	0.17	52.0	6.1	11	10.05
W595777		5.09			0.10	7.70	5.4	2360	1.79	0.12	2.74	0.18	43.8	5.3	9	11.20
W595778		2.16			4.12	7.38	254	1470	1.88	0.29	2.65	16.25	55.8	3.7	8	15.25
W595779		2.60			2.28	7.48	210	1400	1.98	0.14	2.25	29.5	45.5	10.4	8	16.60
W595780		5.06			0.11	7.97	19.0	2320	1.60	0.07	2.47	0.32	46.3	6.9	9	13.80

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W595741		967	3.68	7.31	0.07	0.4	4.53	1.17	21.1	60.4	0.32	1410	37.9	0.02	2.9	4.3
W595742		17.8	2.62	17.10	0.11	0.9	0.214	3.18	21.3	15.9	0.68	2650	6.21	0.07	6.7	2.0
W595743		9.2	2.13	17.25	0.12	1.1	0.189	3.39	27.8	11.6	0.80	2970	3.93	0.05	8.1	2.1
W595744		130.0	3.23	17.35	0.12	0.8	0.911	3.33	21.6	8.2	0.44	2980	11.90	0.04	7.1	2.1
W595745		12.7	2.04	17.50	0.08	1.0	0.145	2.33	19.9	54.8	0.63	1360	2.32	0.07	7.8	1.5
W595746		1310	11.50	11.90	0.10	0.8	4.30	1.94	15.9	30.8	0.54	1880	17.65	0.15	4.5	14.8
W595747		7.4	2.83	16.65	0.11	1.2	0.061	3.19	29.9	18.3	0.68	561	1.28	2.45	8.8	2.4
W595748		23.3	3.34	16.70	0.12	1.2	0.071	2.98	27.1	108.5	0.75	1020	1.06	0.67	8.5	2.2
W595749		4.7	2.71	15.50	0.09	1.2	0.061	3.18	25.1	49.3	0.71	1310	1.23	1.54	8.5	2.2
W595750		7.5	3.10	16.25	0.11	1.0	0.135	3.32	22.7	116.5	0.64	2160	0.96	0.16	8.3	2.1
W595751		399	5.15	15.35	0.11	1.0	8.15	3.32	25.7	10.9	0.50	1990	1.68	0.12	7.0	2.3
W595752		4.0	3.14	16.20	0.10	1.1	0.084	3.37	24.1	28.8	0.58	621	1.53	1.43	8.6	2.2
W595753		1.5	0.14	0.30	0.07	<0.1	0.007	0.02	1.2	1.1	1.95	106	0.06	0.04	0.1	0.6
W595754		12.0	2.83	16.20	0.14	1.3	0.195	2.90	24.0	15.8	0.65	931	1.40	1.36	8.2	2.3
W595755		47.0	5.01	20.9	0.09	0.8	0.377	2.72	16.2	50.2	1.09	2020	1.92	0.10	6.8	9.4
W595756		4.1	2.28	17.50	0.11	0.9	0.158	2.24	19.3	29.4	0.66	1080	15.80	1.31	7.0	4.3
W595757		8.3	2.72	16.70	0.14	1.1	0.104	2.44	35.2	12.3	0.51	768	0.94	1.23	8.1	2.0
W595758		8.6	2.36	16.55	0.11	1.2	0.081	2.39	19.2	29.6	0.53	972	1.14	1.22	8.6	2.0
W595759		203	5.97	16.05	0.12	1.1	0.677	2.89	26.0	40.0	0.75	1990	9.50	0.07	6.8	17.0
W595760		3.4	1.78	18.20	0.11	0.9	0.131	2.52	13.5	38.6	0.61	837	0.31	0.61	7.5	1.8
W595761		7.3	1.58	16.95	0.11	0.9	0.092	2.53	13.3	69.9	0.73	901	0.39	0.39	7.5	1.5
W595762		9.2	1.82	17.70	0.10	1.2	0.104	2.23	13.0	110.5	0.59	947	1.84	0.84	7.3	2.5
W595763		4.3	2.20	17.10	0.12	1.2	0.054	2.13	21.0	10.5	0.52	589	1.23	2.15	8.4	1.9
W595764		10.4	2.67	16.85	0.11	1.3	0.083	2.90	23.7	67.3	0.62	681	1.65	1.37	8.9	2.2
W595765		6.8	2.54	15.40	0.08	0.9	0.213	2.80	14.0	52.5	0.66	4060	0.57	0.06	7.2	1.8
W595766		7.4	2.69	15.60	0.10	1.0	0.221	2.78	19.7	52.3	0.70	4290	0.72	0.06	7.5	1.9
W595767		12.7	2.67	16.45	0.09	1.3	0.059	2.89	21.6	90.8	0.74	1660	1.33	0.93	9.0	2.0
W595768		6.8	3.08	17.00	0.12	1.2	0.053	3.15	28.9	13.4	0.75	816	0.87	2.20	9.1	2.5
W595769		376	4.94	14.45	0.10	1.2	1.135	2.89	26.5	15.4	0.45	1650	4.96	0.08	6.7	1.9
W595770		4.2	2.80	16.30	0.09	1.3	0.050	2.47	21.3	11.0	0.75	582	0.85	2.36	8.6	2.4
W595771		4.1	2.91	16.00	0.09	1.3	0.037	2.85	29.5	13.6	0.80	566	1.48	2.42	8.4	2.3
W595772		50.6	4.72	15.05	0.11	1.1	0.678	3.02	25.5	22.0	0.52	1320	1.47	0.64	7.8	2.3
W595773		8.4	2.89	14.70	0.15	1.0	0.062	3.06	25.1	38.6	0.82	1320	2.09	0.30	7.1	4.1
W595774		122.0	3.86	14.85	0.15	1.0	1.070	3.18	30.0	14.4	0.64	1720	1.49	0.03	6.6	3.0
W595775		110.0	4.16	16.00	0.14	1.0	1.060	3.44	27.3	18.7	0.61	1560	1.50	0.03	6.6	3.1
W595776		5.3	3.04	16.75	0.18	1.1	0.040	2.98	28.7	15.2	0.72	661	1.60	2.04	8.1	2.7
W595777		9.7	3.01	16.90	0.17	1.0	0.053	2.89	23.6	16.2	0.72	637	4.62	2.11	8.0	3.0
W595778		23.7	3.60	16.35	0.16	0.7	0.222	3.42	34.0	22.3	0.83	3890	5.01	0.06	6.6	2.9
W595779		25.9	4.52	16.85	0.16	0.8	0.535	3.27	24.0	45.5	0.64	1720	4.12	0.45	7.7	2.4
W595780		11.8	3.23	17.10	0.16	0.9	0.043	2.97	25.5	20.6	0.76	669	4.43	2.07	8.1	2.8

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Finalized Date: 18-DEC-2020
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Project: Klaza

CERTIFICATE OF ANALYSIS WH20226270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W595741		190	9800	72.3	0.009	3.47	469	4.3	<1	3.7	147.5	0.23	0.15	5.66	0.080	1.46
W595742		510	345	210	<0.002	1.14	31.3	9.2	<1	3.3	83.5	0.51	<0.05	14.60	0.187	3.25
W595743		570	192.5	191.5	<0.002	0.41	16.80	9.9	<1	3.2	137.0	0.68	<0.05	15.60	0.220	3.64
W595744		530	6140	219	<0.002	2.39	63.2	8.7	<1	3.7	33.6	0.58	<0.05	14.30	0.196	3.06
W595745		490	130.5	126.0	<0.002	0.30	20.7	8.8	<1	2.8	89.6	0.63	<0.05	15.00	0.216	2.52
W595746		360	9450	115.5	0.002	>10.0	226	6.9	1	11.0	92.2	0.35	1.95	7.71	0.141	1.91
W595747		550	33.7	131.5	<0.002	0.04	4.17	10.0	<1	1.6	374	0.70	<0.05	17.00	0.230	1.29
W595748		530	80.3	148.0	<0.002	0.51	14.75	10.2	<1	3.0	196.0	0.69	<0.05	15.00	0.225	2.14
W595749		560	116.5	133.0	<0.002	0.14	7.84	9.8	<1	1.9	269	0.71	<0.05	13.90	0.234	1.76
W595750		550	166.0	148.5	<0.002	0.46	13.75	9.6	<1	2.7	160.0	0.71	<0.05	13.85	0.220	2.58
W595751		480	8990	218	<0.002	4.01	57.9	8.9	<1	5.9	49.0	0.64	0.48	13.75	0.179	3.03
W595752		560	40.9	150.0	<0.002	0.06	4.75	9.7	<1	2.5	261	0.68	<0.05	14.05	0.237	1.79
W595753		60	4.8	0.6	<0.002	<0.01	0.16	0.2	1	<0.2	82.6	<0.05	<0.05	0.10	0.005	<0.02
W595754		480	201	136.0	<0.002	0.09	3.88	9.1	<1	2.6	245	0.75	<0.05	15.80	0.201	1.81
W595755		560	958	161.5	0.002	1.51	3.84	10.8	<1	6.1	111.0	0.56	0.53	12.90	0.174	2.16
W595756		570	29.2	112.0	0.026	0.15	2.56	9.7	<1	3.6	182.5	0.56	<0.05	12.55	0.186	2.12
W595757		550	76.1	140.5	<0.002	0.41	4.69	10.0	<1	2.8	251	0.62	<0.05	16.90	0.220	2.05
W595758		560	71.0	113.5	<0.002	0.19	6.64	9.4	<1	2.5	266	0.71	<0.05	11.60	0.220	2.23
W595759		510	1810	175.0	<0.002	3.36	51.7	10.0	<1	6.5	82.6	0.54	0.25	12.50	0.203	2.69
W595760		540	24.7	114.5	<0.002	0.16	6.60	8.9	<1	3.2	212	0.58	<0.05	10.50	0.201	2.51
W595761		510	26.7	123.0	<0.002	0.15	10.25	8.7	<1	3.1	210	0.61	<0.05	12.95	0.191	2.42
W595762		520	20.6	103.5	0.005	0.19	12.00	10.0	<1	2.6	204	0.66	<0.05	14.35	0.191	2.10
W595763		540	13.7	103.5	<0.002	0.06	2.85	9.5	<1	2.1	316	0.66	<0.05	13.95	0.217	1.49
W595764		550	26.5	127.0	<0.002	0.04	8.80	9.6	<1	1.9	292	0.76	<0.05	13.85	0.234	1.74
W595765		420	212	142.5	<0.002	0.93	16.95	8.0	<1	3.0	121.5	0.63	<0.05	13.05	0.188	2.84
W595766		430	230	176.0	<0.002	0.95	17.85	8.4	<1	2.9	124.0	0.65	<0.05	16.50	0.191	2.90
W595767		550	25.9	124.0	<0.002	0.18	8.67	9.3	<1	2.1	274	0.78	<0.05	13.60	0.233	2.22
W595768		570	44.2	129.5	<0.002	0.06	3.72	10.1	<1	2.0	370	0.71	<0.05	16.20	0.242	1.48
W595769		390	5720	176.0	<0.002	4.49	106.5	7.5	<1	4.7	56.0	0.67	<0.05	17.55	0.156	2.39
W595770		570	70.6	99.4	<0.002	0.06	2.17	9.4	<1	2.2	390	0.74	<0.05	13.90	0.236	1.17
W595771		560	20.2	111.0	<0.002	0.02	1.51	9.7	<1	1.7	430	0.68	<0.05	15.55	0.233	1.02
W595772		510	1210	141.0	<0.002	2.96	13.75	8.7	<1	3.3	264	0.63	<0.05	14.40	0.213	1.85
W595773		500	37.3	126.0	<0.002	0.27	9.64	8.2	<1	1.6	167.0	0.57	<0.05	12.30	0.204	2.31
W595774		510	>10000	172.0	<0.002	1.61	40.3	8.8	1	4.4	82.8	0.55	<0.05	13.70	0.193	2.72
W595775		470	7600	191.0	<0.002	2.01	24.8	9.0	<1	5.0	61.9	0.55	<0.05	13.75	0.195	2.85
W595776		600	31.5	114.5	<0.002	0.04	2.51	10.3	<1	1.6	354	0.65	<0.05	13.85	0.250	1.23
W595777		640	23.7	119.0	<0.002	0.04	2.75	11.2	<1	2.9	410	0.59	<0.05	11.15	0.256	1.21
W595778		580	982	177.5	<0.002	1.14	13.45	9.7	<1	4.9	128.0	0.48	<0.05	10.65	0.218	2.70
W595779		600	1100	137.0	<0.002	0.54	9.44	10.6	1	2.6	183.0	0.56	<0.05	11.20	0.244	2.41
W595780		610	29.0	115.5	<0.002	0.03	3.10	10.8	<1	1.8	394	0.66	<0.05	11.80	0.259	1.39

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226270

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W595741		17.2	31	1.5	8.4	7280	11.8	1.340
W595742		6.2	58	2.0	12.0	1340	24.7	0.101
W595743		8.8	67	2.5	14.6	302	29.5	0.027
W595744		4.2	54	3.1	9.0	4390	22.7	0.206
W595745		4.8	59	1.5	14.3	179	27.1	0.032
W595746		5.0	49	4.3	9.9	>10000	21.7	2.81
W595747		3.7	62	1.7	17.3	61	33.8	0.008
W595748		4.0	63	1.7	16.6	81	34.2	0.081
W595749		5.0	64	1.8	16.4	62	31.9	0.035
W595750		6.4	66	1.8	14.4	284	27.9	0.030
W595751		5.5	56	2.9	11.0	8580	24.0	0.693
W595752		4.0	65	1.8	15.9	77	29.4	0.005
W595753		0.1	1	<0.1	2.1	8	1.6	<0.005
W595754		4.4	55	1.9	14.9	526	35.6	0.007
W595755		4.1	90	1.9	9.9	826	22.5	0.863
W595756		3.8	63	1.2	11.4	53	26.0	0.188
W595757		5.4	59	1.3	15.3	196	31.6	0.007
W595758		6.0	62	1.2	14.7	133	30.9	0.012
W595759		4.8	64	6.0	12.1	2800	29.5	0.625
W595760		5.9	49	1.2	12.8	48	24.1	0.007
W595761		3.5	37	1.3	12.6	50	25.2	0.006
W595762		5.0	54	0.9	11.0	59	31.5	0.015
W595763		4.5	54	1.1	13.7	40	34.8	0.005
W595764		4.4	62	1.9	15.8	73	34.7	0.009
W595765		6.0	51	1.7	12.5	615	24.5	0.145
W595766		6.5	51	1.6	14.5	650	25.9	0.156
W595767		5.3	62	1.9	15.4	61	32.8	0.015
W595768		4.9	66	1.1	18.2	78	32.7	0.007
W595769		7.3	46	3.2	10.8	6360	31.5	0.596
W595770		4.4	63	0.7	16.2	47	34.3	0.023
W595771		4.4	64	0.6	17.9	42	36.9	0.008
W595772		6.3	60	1.7	16.8	1640	29.5	0.211
W595773		3.5	56	1.3	13.4	61	27.2	0.053
W595774		4.9	56	3.0	11.4	5430	25.0	0.140
W595775		4.5	56	3.1	10.8	5400	25.0	0.127
W595776		4.1	68	0.8	16.6	53	31.4	0.008
W595777		3.2	73	2.0	16.6	45	24.0	0.010
W595778		4.8	68	3.0	14.1	1480	19.4	0.035
W595779		3.8	68	5.3	13.4	3130	21.3	0.029
W595780		3.4	69	1.6	16.2	59	24.4	0.008

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226270

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226272

Project: Klaza

P.O. No.: Batch 42

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226272

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596627		8.74		0.47	6.63	57.7	120	1.07	2.09	2.85	0.17	39.9	17.4	10	13.95	299
W596628		6.20		0.40	6.69	31.9	340	1.12	1.63	3.06	0.22	41.7	14.2	11	12.30	281
W596629		6.86		0.13	8.17	6.5	700	1.48	1.85	1.08	0.31	50.2	11.6	18	8.50	149.0
W596630		5.19		0.15	7.85	8.5	630	1.33	1.29	1.08	0.16	34.6	9.5	13	5.79	198.0
W596631		7.92		0.25	8.12	28.7	2210	1.24	1.21	0.77	0.36	32.6	6.1	13	7.03	179.0
W596632		0.26		10.60	6.88	2020	210	1.48	6.27	1.76	37.7	47.9	12.1	30	18.00	209
W596633		6.59		0.40	9.34	57.1	600	1.86	1.71	0.16	2.67	36.6	12.2	18	7.68	1750
W596634		5.72		3.38	5.64	192.5	330	1.12	4.42	0.03	11.30	16.80	1.6	6	7.13	1020
W596635		4.57		5.42	6.29	256	370	0.95	9.10	0.01	11.90	16.55	2.2	5	7.47	1200
W596636		2.79		5.65	6.55	358	670	1.07	8.37	0.02	17.70	23.9	2.0	7	14.90	1520
W596637		3.19		4.80	6.84	365	700	1.08	4.36	0.05	9.96	19.15	4.4	5	14.05	1580
W596638		0.26	1.460	88.7	4.44	3750	210	1.00	48.3	1.43	187.5	29.5	55.2	35	9.69	1250
W596639		3.58		2.48	6.55	125.0	440	0.88	6.60	0.04	16.85	12.00	2.2	5	5.89	549
W596640		4.26		5.31	6.35	210	540	0.94	11.10	0.05	23.0	10.10	3.6	6	4.89	1180
W596641		3.63		2.00	6.80	123.0	180	0.89	14.85	0.41	10.75	12.45	8.0	9	4.08	477
W596642		4.21		3.85	7.43	69.4	520	0.83	21.1	0.59	9.75	31.5	2.9	11	4.45	325
W596643		4.66		2.31	7.73	59.6	540	1.11	14.40	1.06	13.85	41.6	4.3	12	5.23	464
W596644		5.03		2.37	7.37	39.4	600	1.43	10.60	1.43	11.15	23.9	4.1	11	5.92	81.3
W596645		1.95		2.15	7.45	33.0	620	1.36	9.88	1.37	12.10	23.5	4.5	10	5.82	83.3
W596646		5.62		0.78	7.49	33.2	570	1.34	14.40	1.53	5.36	23.0	5.4	11	5.15	100.5
W596647		4.47		1.00	7.49	23.9	1290	1.78	8.26	1.72	8.93	60.7	5.3	11	7.46	72.4
W596648		<0.02		1.02	7.23	25.4	1190	1.82	9.92	1.69	9.36	58.3	5.6	11	7.69	72.6
W596649		3.16		0.45	7.32	27.3	760	2.06	3.21	1.94	9.65	18.05	4.8	11	8.94	35.0
W596650		3.01		8.03	6.92	455	750	2.11	200	1.62	12.40	25.9	4.4	8	11.25	2680
W596651		3.36		2.66	6.14	113.5	670	1.59	16.35	1.37	6.31	34.5	2.1	4	9.30	368
W596652		4.94		3.04	6.75	168.0	690	1.73	24.8	1.71	6.89	50.9	1.9	9	7.47	516
W596653		4.90		1.59	7.31	85.7	620	1.61	21.2	2.26	3.51	62.3	3.8	11	8.50	313
W596654		5.03		2.16	7.23	47.9	360	1.63	8.99	1.88	3.39	42.9	6.4	11	10.10	143.0
W596655		2.73		3.61	7.06	225	430	1.69	11.80	2.02	3.77	71.7	5.3	10	17.00	1880
W596656		3.12		0.04	7.61	30.6	1200	1.93	0.26	3.61	0.12	82.0	9.3	33	14.15	10.6
W596657		4.07		0.07	7.88	31.1	780	1.95	0.27	3.74	0.18	78.9	9.1	32	12.80	16.5
W596658		4.53		1.79	7.38	59.9	1880	1.43	3.04	2.17	3.43	48.0	6.2	12	8.21	821
W596659		4.20		1.56	7.01	22.4	1640	1.22	4.36	1.68	3.06	40.5	2.9	12	7.08	951
W596660		5.18		0.01	0.20	<0.2	30	0.11	0.06	32.7	0.02	1.26	0.5	2	0.06	3.2
W596661		4.54		2.53	6.98	37.8	1550	1.14	4.60	1.52	2.09	42.4	3.3	11	7.07	845
W596662		4.16		1.86	7.27	54.6	1580	1.32	6.12	1.52	1.50	40.0	4.7	12	9.03	881
W596663		4.30		2.73	7.41	61.5	750	1.65	8.43	1.79	1.60	47.9	4.2	12	9.40	1280
W596664		4.30		2.89	7.47	51.2	910	1.62	16.90	1.78	2.17	53.4	2.9	11	8.09	1830
W596665		3.75		3.93	7.50	59.7	520	1.63	9.79	1.84	3.09	48.6	1.9	11	8.22	2260
W596666		3.86		5.75	7.43	138.5	500	1.96	19.75	1.54	3.21	49.3	2.3	11	7.97	2800

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS WH20226272

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596627		5.23	14.30	0.09	0.4	0.024	2.97	20.9	19.7	1.09	116	5.54	0.10	2.4	4.8	460
W596628		4.70	14.50	0.07	0.4	0.013	2.97	21.6	28.6	1.35	133	5.68	0.08	2.8	4.3	480
W596629		4.89	16.80	0.15	0.5	0.072	2.78	25.7	15.5	1.07	156	2.09	2.28	7.8	6.8	550
W596630		4.50	15.70	0.10	0.5	0.088	2.97	18.1	13.1	0.85	167	1.05	1.88	5.6	5.3	490
W596631		3.50	18.40	0.13	0.6	0.098	2.82	18.4	17.9	0.59	122	3.01	1.16	7.6	6.2	580
W596632		6.14	16.80	0.12	1.1	0.696	2.94	26.8	40.4	0.78	2060	9.68	0.07	7.1	17.2	540
W596633		2.79	18.05	0.10	0.7	0.176	1.66	18.7	47.0	0.13	108	2.89	0.04	7.9	17.8	590
W596634		1.46	14.00	0.09	2.1	0.676	2.68	8.9	26.4	0.24	63	28.7	0.03	9.1	1.9	170
W596635		2.30	14.75	0.09	2.4	0.882	2.90	8.8	20.1	0.24	54	29.0	0.02	10.3	1.2	70
W596636		1.76	14.55	0.08	2.4	1.080	2.84	12.9	32.4	0.23	40	9.67	0.02	9.7	1.5	340
W596637		2.19	13.25	0.08	2.7	0.588	2.71	10.1	39.1	0.24	58	5.96	0.02	10.0	2.7	260
W596638		10.95	11.65	0.11	0.7	4.12	1.85	15.7	29.3	0.51	1800	17.40	0.14	4.4	17.9	360
W596639		2.26	13.35	0.06	2.5	0.844	2.96	6.2	27.9	0.25	51	5.06	0.02	9.0	1.0	110
W596640		2.59	16.75	0.08	2.5	1.530	2.79	4.8	23.3	0.27	74	7.32	0.02	8.2	1.9	270
W596641		3.52	17.60	0.09	2.0	0.401	4.56	5.4	18.4	0.33	361	4.45	0.07	8.8	3.0	540
W596642		2.67	18.50	0.10	2.1	0.165	4.27	15.8	16.7	0.41	508	8.63	0.10	8.2	2.7	510
W596643		2.97	19.20	0.11	2.0	0.400	4.98	21.7	8.7	0.60	741	2.46	0.11	7.6	2.9	590
W596644		2.90	20.2	0.11	2.0	0.212	4.99	11.9	8.2	0.72	705	2.37	0.09	7.8	3.0	530
W596645		2.71	19.95	0.09	2.0	0.214	4.45	11.8	7.9	0.71	668	2.09	0.09	7.3	2.3	520
W596646		2.71	20.3	0.10	2.0	0.119	4.82	11.2	7.0	0.72	553	3.82	0.09	7.7	2.5	540
W596647		2.77	18.15	0.13	1.9	0.085	4.09	29.8	12.5	0.79	671	2.77	0.04	6.9	2.5	550
W596648		2.75	19.00	0.12	2.0	0.083	3.93	28.1	13.0	0.76	655	2.99	0.04	7.5	2.8	540
W596649		2.70	19.45	0.10	1.9	0.066	3.39	8.8	11.6	0.91	781	1.11	0.02	6.8	2.5	530
W596650		2.81	17.25	0.09	2.2	0.986	2.86	12.9	24.0	0.78	869	5.38	0.03	7.7	2.9	660
W596651		1.90	12.80	0.09	2.5	0.248	2.55	17.9	40.2	0.65	825	22.0	0.03	9.5	1.4	170
W596652		2.04	16.90	0.09	2.0	0.240	2.84	26.3	84.6	0.78	735	4.67	0.02	8.7	1.7	350
W596653		2.40	19.30	0.12	1.9	0.155	2.80	32.6	38.8	0.92	691	2.34	0.02	8.1	3.0	540
W596654		2.84	18.45	0.11	1.9	0.125	2.68	22.6	42.9	0.80	873	3.37	0.02	8.3	3.4	520
W596655		2.64	17.50	0.12	1.9	0.572	2.79	37.1	34.6	0.86	921	2.56	0.02	7.9	3.5	520
W596656		2.97	20.0	0.15	4.4	0.041	3.20	44.3	53.3	1.34	980	2.93	0.05	12.4	11.8	1100
W596657		3.09	19.40	0.14	4.1	0.043	3.18	42.8	42.1	1.46	1060	2.88	0.05	11.9	10.7	1110
W596658		2.38	18.35	0.12	2.0	0.238	4.70	23.0	10.7	0.94	709	2.26	0.07	8.2	3.2	580
W596659		2.14	18.55	0.12	1.9	0.294	4.45	19.3	8.1	0.72	499	3.92	0.10	8.6	2.6	540
W596660		0.18	0.67	0.10	0.1	<0.005	0.08	1.3	1.1	1.69	104	0.07	0.10	0.5	0.6	60
W596661		2.07	20.2	0.20	2.1	0.273	4.81	20.0	8.8	0.63	403	2.83	0.09	8.6	2.7	550
W596662		2.07	17.80	0.17	2.0	0.194	4.52	20.6	8.5	0.67	382	1.38	0.09	8.7	2.9	540
W596663		2.34	20.6	0.17	2.0	0.209	4.58	24.2	7.9	0.78	452	1.31	0.08	9.3	3.2	530
W596664		2.32	18.55	0.15	1.9	0.180	4.48	28.2	9.7	0.79	455	1.14	0.05	8.6	2.7	550
W596665		2.32	17.70	0.12	1.9	0.235	3.35	26.4	13.1	0.85	545	1.09	0.03	7.9	2.3	540
W596666		2.37	19.90	0.13	2.1	0.310	3.70	25.7	5.4	0.82	477	1.98	0.04	9.2	2.4	510

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226272

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596627		15.0	163.5	<0.002	5.33	10.80	9.6	5	5.3	163.0	0.24	0.34	9.28	0.127	2.01	3.3
W596628		18.6	164.5	<0.002	4.47	16.80	9.8	2	5.9	173.5	0.26	0.32	9.80	0.150	2.15	2.9
W596629		17.8	124.0	0.003	2.68	1.11	8.3	1	3.1	370	0.73	0.07	12.15	0.215	1.90	4.5
W596630		24.3	114.5	<0.002	2.55	1.14	10.9	1	6.4	311	0.47	0.26	11.20	0.217	1.65	4.2
W596631		56.4	121.0	<0.002	1.23	4.94	10.5	1	6.7	250	0.66	0.23	13.30	0.248	1.76	4.3
W596632		1900	179.0	<0.002	3.47	50.3	10.2	<1	6.6	83.3	0.55	0.22	11.60	0.212	2.77	4.7
W596633		121.5	80.9	0.003	2.17	17.25	14.7	1	5.9	67.0	0.67	0.15	18.35	0.267	1.37	23.7
W596634		324	140.5	<0.002	1.28	140.0	4.3	<1	9.7	12.9	1.03	0.49	14.35	0.052	2.52	6.7
W596635		352	144.0	<0.002	2.28	335	4.8	2	12.3	11.0	1.15	1.82	19.20	0.063	2.62	6.5
W596636		562	139.0	<0.002	1.80	168.0	3.8	1	11.4	16.3	1.00	1.07	14.10	0.084	2.39	10.8
W596637		444	130.5	<0.002	2.11	97.7	2.4	1	9.9	19.5	1.11	0.51	15.00	0.060	2.35	12.7
W596638		8980	110.5	0.002	>10.0	221	6.6	1	10.6	86.1	0.34	2.12	7.09	0.138	1.80	4.8
W596639		419	128.5	<0.002	2.31	13.45	3.9	1	12.0	21.0	1.00	1.39	17.00	0.058	2.25	5.8
W596640		963	129.0	<0.002	2.50	12.60	4.9	1	14.2	21.2	1.03	1.92	14.50	0.050	2.19	9.4
W596641		338	130.0	<0.002	3.30	4.32	4.9	1	8.6	95.1	0.77	3.27	12.10	0.118	2.62	10.1
W596642		449	105.0	<0.002	1.91	2.71	4.6	1	7.3	145.0	0.68	1.20	10.85	0.143	3.14	6.5
W596643		306	122.0	<0.002	1.78	3.38	5.7	1	4.6	236	0.64	1.06	11.10	0.142	3.31	8.3
W596644		487	134.5	<0.002	1.81	1.95	5.1	<1	4.5	199.5	0.62	1.37	10.45	0.142	3.20	5.7
W596645		459	111.5	<0.002	1.66	1.79	4.9	1	4.2	200	0.60	0.99	10.20	0.134	3.23	5.9
W596646		155.0	114.0	<0.002	1.92	3.23	5.0	<1	5.6	233	0.68	3.21	10.15	0.156	3.03	6.2
W596647		331	129.5	<0.002	1.88	3.37	4.8	<1	5.2	124.5	0.59	1.04	10.00	0.140	2.51	6.4
W596648		324	128.5	<0.002	1.85	3.50	4.9	1	5.5	125.0	0.63	1.16	10.20	0.141	2.56	6.4
W596649		215	131.0	<0.002	1.61	4.37	5.1	<1	4.8	110.5	0.57	0.89	10.95	0.138	2.36	4.9
W596650		814	128.5	<0.002	1.51	324	4.2	2	5.9	82.4	0.84	7.99	11.80	0.106	2.39	9.0
W596651		381	116.0	<0.002	1.20	71.2	2.1	1	3.4	74.8	1.10	0.55	12.55	0.058	2.20	8.7
W596652		770	116.0	<0.002	1.29	97.1	3.5	<1	7.1	99.5	0.84	0.78	10.65	0.120	2.00	6.7
W596653		292	105.5	<0.002	1.56	34.3	4.9	1	8.3	134.5	0.66	1.70	10.50	0.160	1.93	7.0
W596654		215	116.0	<0.002	2.15	18.35	4.8	1	6.7	132.0	0.67	1.89	10.80	0.153	1.98	6.1
W596655		226	125.5	<0.002	1.87	136.0	4.9	1	7.3	177.0	0.65	1.35	10.30	0.153	2.15	4.5
W596656		11.2	132.0	<0.002	0.35	10.45	8.7	<1	1.6	572	0.83	<0.05	11.50	0.322	2.31	9.2
W596657		21.3	125.0	<0.002	0.47	12.60	8.5	<1	1.6	512	0.81	<0.05	11.60	0.320	2.17	7.1
W596658		167.0	121.0	<0.002	1.32	15.10	5.1	1	5.9	280	0.67	0.59	10.35	0.165	2.69	5.6
W596659		111.0	102.0	<0.002	1.41	7.57	5.0	1	5.6	302	0.70	1.98	9.71	0.167	2.88	6.5
W596660		0.9	2.6	<0.002	<0.01	0.19	0.2	1	0.2	80.1	0.05	<0.05	0.18	0.007	0.03	0.3
W596661		113.0	120.0	<0.002	1.45	7.52	5.5	1	5.9	289	0.72	1.46	9.90	0.162	2.90	4.9
W596662		89.1	114.5	<0.002	1.46	8.47	5.8	1	3.9	268	0.72	2.51	10.40	0.174	2.70	5.0
W596663		71.2	132.5	<0.002	1.71	9.48	6.4	1	4.0	238	0.72	3.30	10.45	0.177	2.76	6.4
W596664		63.4	146.0	<0.002	1.70	7.50	5.9	1	4.1	195.5	0.71	8.47	10.55	0.179	2.39	5.0
W596665		72.0	129.5	<0.002	1.79	7.71	5.4	1	4.2	162.0	0.67	4.66	10.20	0.171	2.02	5.0
W596666		118.0	157.0	<0.002	1.86	26.1	5.5	1	7.2	103.0	0.80	9.75	10.80	0.170	2.38	6.1

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226272

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596627		73	11.1	8.7	18	8.2	0.028
W596628		77	9.3	9.1	27	8.4	0.023
W596629		70	2.2	11.0	85	13.5	0.020
W596630		79	3.4	8.5	66	11.3	0.019
W596631		94	4.7	9.6	62	15.1	0.022
W596632		66	6.2	12.5	2920	30.3	0.646
W596633		89	7.5	11.1	171	19.7	0.027
W596634		17	6.0	4.8	812	51.9	0.103
W596635		16	7.7	4.9	844	58.6	0.307
W596636		18	7.4	5.1	1220	62.5	0.152
W596637		12	6.1	6.2	752	67.3	0.125
W596638		46	4.3	9.5	>10000	22.3	2.86
W596639		9	6.2	5.1	1260	58.9	0.105
W596640		16	6.3	5.0	1700	59.5	0.168
W596641		32	16.1	7.1	886	53.9	0.056
W596642		34	18.9	9.8	855	57.0	0.040
W596643		40	11.8	11.6	1210	56.8	0.034
W596644		36	16.4	8.8	890	57.1	0.028
W596645		36	15.1	8.4	994	56.5	0.031
W596646		39	15.3	7.8	445	55.1	0.046
W596647		37	13.5	10.6	636	54.8	0.027
W596648		36	14.7	10.8	632	56.5	0.032
W596649		38	15.3	9.7	646	54.0	0.030
W596650		35	10.8	10.8	622	66.8	0.090
W596651		16	5.2	8.7	329	57.8	0.061
W596652		28	7.7	8.5	602	51.6	0.030
W596653		40	11.5	12.2	328	53.4	0.030
W596654		36	7.3	8.6	285	57.1	0.023
W596655		36	7.0	11.4	343	55.5	0.043
W596656		74	3.1	17.1	71	160.5	0.017
W596657		74	2.4	16.0	82	155.5	0.013
W596658		40	6.8	9.7	293	57.4	0.036
W596659		39	5.2	9.2	231	55.9	0.021
W596660		1	0.1	2.5	4	3.7	0.007
W596661		39	5.8	9.7	173	57.2	0.021
W596662		40	7.3	10.1	130	56.5	0.017
W596663		41	6.8	11.6	133	62.1	0.029
W596664		40	5.6	10.7	194	54.3	0.021
W596665		40	5.7	10.1	286	52.0	0.016
W596666		38	8.2	9.3	276	55.0	0.025

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226272

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226276

Project: Klaza

P.O. No.: Batch 43

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20226276

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596667		2.73		2.45	7.35	65.6	910	1.88	4.10	1.76	1.48	63.7	3.4	9	8.32	515
W596668		3.35		1.74	6.95	350	870	1.76	3.84	1.71	1.31	42.1	2.0	9	8.15	846
W596669		2.27		1.54	6.78	226	810	1.75	4.23	1.60	3.41	38.4	15.2	7	6.99	461
W596670		3.83		2.56	8.25	351	500	1.87	4.54	4.14	0.68	52.1	42.0	12	15.00	825
W596671		0.26		9.47	6.61	1935	210	1.59	5.36	1.66	36.3	44.1	11.6	27	15.70	202
W596672		3.84		0.47	8.20	139.5	1880	1.59	1.19	4.22	0.23	53.6	19.9	17	12.55	183.0
W596673		4.01		0.46	8.60	120.5	2010	1.64	2.05	4.62	0.27	56.1	16.2	15	14.55	157.5
W596674		4.41		0.68	8.36	42.9	1660	1.39	4.01	4.99	0.36	49.1	22.3	14	15.90	357
W596675		5.90		0.96	8.55	37.9	2040	1.43	2.78	3.84	0.37	54.2	14.7	13	11.35	498
W596676		0.26	1.445	94.2	4.80	4050	350	0.99	49.8	1.51	196.5	29.1	60.6	34	9.58	1330
W596677		5.53		0.74	8.15	33.5	2080	1.60	2.70	3.74	0.36	49.5	13.7	11	11.35	277
W596678		5.34		0.87	8.15	40.0	1340	1.36	2.73	3.59	0.46	50.9	14.1	12	9.88	325
W596679		3.55		1.32	8.77	83.6	320	1.83	8.79	3.03	0.41	51.9	15.9	10	12.10	345
W596680		4.44		0.93	8.96	34.0	790	1.65	3.82	3.55	0.42	52.9	15.9	12	7.87	279
W596681		6.08		0.72	8.76	80.6	1030	1.57	2.63	3.49	0.40	53.2	13.3	12	9.02	190.5
W596682		1.87		1.27	8.59	107.5	730	1.35	3.92	3.27	0.57	50.1	11.6	12	6.54	260
W596683		3.98		0.66	8.40	24.2	2040	1.41	1.37	3.80	0.99	52.2	12.9	12	7.06	139.5
W596684		5.41		0.32	8.60	31.8	2340	1.42	0.74	3.85	0.30	54.9	13.2	13	7.62	63.0
W596685		1.60		0.39	8.77	34.4	2340	1.43	0.77	3.92	0.41	50.9	13.4	13	7.76	76.1
W596686		6.47		0.34	8.72	27.8	2530	1.32	1.22	4.07	0.19	52.9	14.6	12	7.43	83.9
W596687		4.48		0.24	8.17	29.8	2100	1.42	4.33	4.07	0.20	52.3	21.5	11	8.92	33.3
W596688		4.36		0.27	8.51	14.2	2270	1.35	4.22	4.19	0.21	52.1	12.2	11	6.24	41.3
W596689		3.86		0.55	8.33	46.2	2060	1.44	2.95	3.99	0.34	50.4	14.6	11	4.89	115.5
W596690		4.24		0.45	8.85	33.2	2180	1.41	1.46	4.19	0.37	53.7	10.1	12	6.56	117.5
W596691		3.76		0.20	8.57	25.9	2330	1.49	1.07	4.31	0.21	51.3	12.7	11	7.22	51.8
W596692		3.82		0.21	8.52	56.4	2230	1.36	1.62	4.40	0.23	51.2	12.5	10	9.84	27.2
W596693		5.30		0.03	0.16	0.5	30	0.10	0.04	34.0	<0.02	1.06	0.6	1	<0.05	1.6
W596694		4.20		1.36	8.17	69.5	920	1.30	4.56	3.43	3.46	62.1	12.1	10	5.89	200
W596695		4.31		1.15	7.57	166.5	1390	1.54	7.14	4.73	3.21	59.0	14.1	10	9.08	161.0
W596696		4.41		2.47	8.04	159.0	620	1.64	77.5	2.43	4.43	58.5	19.2	11	8.11	415
W596697		3.29		1.20	8.69	83.3	1320	1.65	4.44	4.09	0.57	41.5	12.0	13	10.25	416
W596698		<0.02		1.30	8.55	87.7	1290	1.72	5.29	4.04	0.55	42.7	11.8	13	10.30	428
W596699		3.88		1.14	8.32	57.1	840	1.58	3.47	3.26	0.51	49.7	12.1	13	9.24	484
W596700		3.65		0.81	7.83	84.3	960	1.37	3.92	2.39	0.32	49.2	11.7	14	5.91	231
W596701		2.57		0.84	7.79	107.5	1620	1.18	4.38	2.20	0.42	52.2	11.4	10	8.42	253
W596702		1.82		2.15	7.18	343	570	1.20	6.79	2.67	0.60	49.2	11.0	11	11.25	464
W596703		3.32		0.61	7.61	45.1	1040	1.36	6.33	3.08	0.34	41.6	8.9	12	21.0	140.0
W596704		3.83		3.65	7.22	2880	160	1.19	15.25	1.79	2.16	49.8	11.2	10	19.10	526
W596705		4.91		1.59	7.47	275	630	1.39	6.19	3.34	4.74	41.9	11.6	12	11.75	133.5
W596706		5.08		0.89	8.66	50.0	660	1.34	8.23	4.33	0.38	31.5	20.8	16	15.75	157.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226276

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596667		1.63	16.35	0.20	2.0	0.078	3.20	36.7	20.0	0.79	475	1.82	0.03	8.3	2.4	460
W596668		1.72	15.35	0.17	1.8	0.150	2.59	23.7	42.6	0.84	882	2.34	0.02	8.0	2.3	430
W596669		1.78	14.15	0.16	1.9	0.143	3.08	19.1	31.9	0.80	797	3.46	0.04	8.6	2.0	370
W596670		4.50	21.6	0.18	0.7	0.176	3.30	26.4	29.0	1.75	2140	1.96	0.04	6.0	7.0	1420
W596671		5.89	15.30	0.13	1.0	0.651	2.87	24.5	42.1	0.74	1940	8.40	0.06	6.1	16.9	500
W596672		4.40	18.75	0.16	0.8	0.139	2.57	29.2	31.5	1.19	860	1.03	1.03	7.6	7.9	1460
W596673		4.92	19.40	0.18	0.7	0.108	2.63	30.3	11.6	1.60	919	1.13	1.70	7.4	7.3	1430
W596674		4.22	18.15	0.16	0.8	0.107	2.43	27.0	11.7	0.99	734	1.23	1.42	7.1	7.0	1410
W596675		5.17	18.20	0.17	0.8	0.106	2.46	29.8	11.9	1.63	574	2.04	2.00	7.3	6.6	1410
W596676		11.80	11.60	0.12	0.7	4.42	2.00	15.3	27.3	0.55	1900	16.45	0.16	4.2	14.6	370
W596677		4.85	18.00	0.14	0.7	0.121	2.28	27.0	10.7	1.58	547	1.69	1.82	7.5	6.0	1360
W596678		5.10	17.90	0.15	0.7	0.105	2.59	28.2	12.5	1.67	530	1.18	1.85	7.0	7.6	1360
W596679		5.72	19.70	0.15	0.8	0.159	2.98	27.5	12.5	1.60	363	1.51	1.46	6.9	6.1	1460
W596680		5.20	19.60	0.18	0.8	0.163	2.87	28.5	12.9	1.73	447	1.36	2.12	7.6	6.5	1480
W596681		5.04	18.85	0.16	0.7	0.104	2.89	30.2	10.6	1.51	533	2.63	1.91	7.2	11.7	1390
W596682		5.53	18.45	0.15	0.8	0.147	2.18	27.3	9.5	1.38	473	5.66	2.21	7.4	5.3	1400
W596683		4.80	17.85	0.14	0.8	0.091	2.13	28.4	12.6	1.86	677	1.05	2.32	7.6	6.1	1420
W596684		4.91	18.60	0.16	0.8	0.074	2.38	28.9	9.8	1.94	724	1.81	2.37	7.9	6.1	1460
W596685		4.98	18.75	0.16	0.8	0.076	2.31	27.9	9.6	1.97	712	1.45	2.42	7.7	6.0	1490
W596686		4.94	18.20	0.19	0.7	0.085	2.40	30.1	8.6	1.83	663	1.51	2.28	7.7	6.9	1480
W596687		5.28	17.70	0.15	0.7	0.079	2.03	28.1	11.0	1.75	638	3.25	2.10	7.2	10.4	1420
W596688		4.87	17.70	0.18	0.7	0.083	2.02	27.9	8.7	1.86	737	1.19	2.50	7.4	6.0	1470
W596689		4.97	18.30	0.14	0.7	0.112	2.20	26.0	7.7	1.80	649	3.64	2.55	7.3	6.0	1480
W596690		4.86	19.00	0.17	0.7	0.086	2.15	28.5	10.0	1.90	707	1.05	2.49	7.4	5.0	1550
W596691		5.05	18.30	0.14	0.7	0.077	2.00	27.3	9.0	1.96	779	0.90	2.40	7.3	5.4	1570
W596692		4.91	17.30	0.17	0.7	0.101	2.11	28.4	10.8	1.93	731	1.14	2.19	6.8	5.3	1480
W596693		0.11	0.50	0.14	0.1	<0.005	0.05	1.2	1.1	1.65	93	0.07	0.07	0.3	0.4	50
W596694		4.95	17.30	0.17	0.7	0.237	2.54	28.2	8.5	1.27	457	0.63	2.06	7.2	5.4	1440
W596695		4.72	19.50	0.10	0.8	0.196	1.83	29.1	15.4	1.64	628	0.77	1.33	7.2	5.4	1380
W596696		5.03	20.7	0.14	0.8	0.160	3.81	27.0	13.4	1.44	314	0.88	1.43	7.5	7.2	1490
W596697		4.56	20.6	0.11	0.6	0.111	2.01	23.0	22.3	1.33	413	1.37	2.48	7.6	6.7	590
W596698		4.48	21.1	0.11	0.6	0.109	1.95	24.2	22.7	1.31	402	1.35	2.47	7.7	6.6	570
W596699		4.59	20.4	0.10	0.5	0.173	1.79	27.7	22.7	1.22	327	1.13	2.40	7.7	4.7	520
W596700		4.16	19.15	0.09	0.7	0.079	2.54	26.5	12.2	0.94	250	1.59	1.42	7.9	5.7	580
W596701		3.37	19.95	0.12	0.7	0.102	3.56	26.2	29.7	0.71	280	1.11	1.03	8.7	7.0	770
W596702		4.80	17.80	0.10	0.5	0.164	2.63	26.3	17.8	1.03	508	1.25	0.82	7.2	4.7	500
W596703		3.70	18.20	0.11	0.6	0.097	2.05	21.5	46.9	1.02	509	1.59	0.61	7.6	4.4	710
W596704		7.25	18.85	0.11	0.6	0.265	3.07	24.4	20.1	0.92	1150	31.1	0.06	5.2	6.3	780
W596705		4.76	17.40	0.10	0.5	0.164	2.57	22.5	111.5	1.32	1060	6.87	0.05	6.2	7.9	870
W596706		5.24	20.7	0.11	0.4	0.172	2.63	13.6	40.4	1.58	604	3.76	0.88	5.7	15.3	810

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Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226276

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596667		153.0	120.0	<0.002	1.09	16.80	4.5	1	2.4	131.5	0.77	0.71	10.45	0.141	2.02	4.9
W596668		85.3	107.0	<0.002	1.27	73.9	4.6	1	1.8	99.9	0.74	1.38	10.40	0.136	2.01	5.2
W596669		81.2	125.0	<0.002	1.54	36.8	5.4	1	2.7	103.0	0.86	1.49	11.10	0.123	2.11	5.5
W596670		31.8	158.0	<0.002	3.48	28.5	16.5	1	6.8	238	0.41	1.47	9.09	0.345	2.68	4.1
W596671		1790	157.0	<0.002	3.32	47.0	9.1	<1	5.8	77.3	0.50	0.22	10.50	0.198	2.56	4.0
W596672		18.3	93.5	<0.002	1.31	5.34	17.1	1	4.4	478	0.54	0.19	9.80	0.411	1.89	6.5
W596673		17.1	110.0	<0.002	1.33	2.62	16.7	<1	4.6	570	0.51	0.40	9.62	0.414	1.73	4.5
W596674		15.6	105.0	<0.002	1.74	4.17	15.7	1	3.7	475	0.47	1.69	9.19	0.407	1.64	8.3
W596675		15.7	97.2	<0.002	1.59	1.64	15.6	1	4.5	599	0.48	0.74	10.20	0.429	1.43	3.9
W596676		9570	106.0	0.003	>10.0	237	6.5	2	10.6	89.7	0.32	2.05	6.82	0.141	1.83	4.4
W596677		18.6	89.5	<0.002	1.38	1.61	15.3	<1	3.9	543	0.53	0.64	9.36	0.409	1.39	3.4
W596678		20.3	104.0	<0.002	1.92	1.53	14.9	<1	4.0	541	0.45	0.43	9.09	0.393	1.62	3.6
W596679		15.6	155.0	<0.002	3.56	2.21	14.7	2	5.6	385	0.50	3.92	9.12	0.386	2.02	4.1
W596680		18.0	115.0	<0.002	2.55	1.25	15.2	1	4.7	586	0.50	1.00	9.09	0.420	1.83	4.0
W596681		22.1	120.0	<0.002	2.05	8.13	14.6	<1	5.0	543	0.49	0.52	9.41	0.393	1.95	3.7
W596682		38.5	119.0	<0.002	3.19	14.05	14.6	1	6.2	436	0.52	0.46	9.60	0.408	1.83	3.9
W596683		35.8	81.1	<0.002	0.93	1.68	15.4	<1	2.6	603	0.53	0.09	9.26	0.417	1.26	3.4
W596684		17.0	80.8	<0.002	0.63	1.47	16.0	<1	2.6	711	0.55	0.08	8.10	0.428	1.24	3.1
W596685		19.5	76.5	<0.002	0.64	1.40	15.4	<1	2.4	732	0.50	0.05	8.02	0.434	1.17	2.8
W596686		15.3	88.9	<0.002	0.68	1.34	15.6	<1	2.6	698	0.50	0.15	9.20	0.429	1.22	3.1
W596687		15.7	77.4	0.002	1.20	1.38	15.4	1	2.4	610	0.47	1.22	9.03	0.406	1.14	2.9
W596688		17.1	61.8	<0.002	0.43	1.46	16.3	<1	1.9	693	0.49	0.09	8.24	0.425	1.04	2.9
W596689		14.8	84.9	<0.002	1.17	1.90	15.8	1	3.2	646	0.50	0.17	8.58	0.416	1.41	3.3
W596690		19.0	86.4	<0.002	0.77	1.71	15.8	<1	3.1	680	0.49	0.18	8.67	0.433	1.25	3.0
W596691		13.9	63.9	<0.002	0.35	1.54	16.1	<1	1.9	707	0.46	<0.05	7.63	0.436	1.05	2.8
W596692		15.0	81.2	<0.002	0.46	1.83	15.2	<1	2.2	650	0.47	0.08	7.73	0.418	1.21	3.0
W596693		0.7	1.2	<0.002	<0.01	0.11	0.2	1	<0.2	81.4	<0.05	<0.05	0.19	0.005	0.02	0.4
W596694		94.5	121.0	<0.002	2.53	3.34	14.6	1	7.6	439	0.47	0.33	7.98	0.394	1.99	3.8
W596695		182.0	87.4	<0.002	1.89	3.18	15.9	<1	6.7	387	0.49	0.36	7.98	0.408	1.60	3.9
W596696		80.5	184.0	<0.002	3.48	4.03	17.3	2	10.8	299	0.49	0.89	7.73	0.416	3.36	3.8
W596697		25.3	79.6	0.003	2.32	2.25	8.8	1	4.5	527	0.51	0.60	7.79	0.348	1.36	3.6
W596698		22.0	84.0	0.002	2.32	2.34	9.0	1	4.6	521	0.52	0.63	7.74	0.339	1.45	3.8
W596699		17.3	83.4	0.002	2.82	2.19	11.3	1	4.4	504	0.52	0.73	7.51	0.303	1.39	3.2
W596700		19.0	139.5	0.002	2.67	7.35	11.8	1	6.2	272	0.66	0.46	11.25	0.292	1.76	4.0
W596701		16.6	154.5	0.002	1.91	19.45	14.0	<1	6.4	242	0.75	0.94	10.30	0.348	2.38	4.0
W596702		40.5	128.0	<0.002	3.14	17.65	11.6	1	5.8	209	0.60	2.18	9.65	0.273	1.78	3.5
W596703		22.9	88.2	<0.002	1.09	22.1	13.4	<1	4.2	244	0.61	0.24	9.46	0.324	1.72	7.9
W596704		194.5	206	0.002	6.52	99.8	16.1	2	12.2	124.5	0.38	3.70	8.18	0.304	2.80	6.9
W596705		224	139.0	<0.002	3.35	44.6	13.6	1	8.5	319	0.42	0.34	7.45	0.311	3.05	4.7
W596706		53.2	112.5	0.002	3.32	37.4	17.7	1	8.7	291	0.37	0.37	3.17	0.415	3.61	3.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 18-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226276

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596667		32	3.9	9.9	137	54.2	0.012
W596668		33	10.4	9.6	98	49.8	0.049
W596669		43	10.7	8.9	277	47.9	0.050
W596670		153	17.3	14.2	81	16.2	0.071
W596671		63	5.6	10.9	2770	24.7	0.609
W596672		154	10.2	18.4	65	16.4	0.051
W596673		151	4.0	20.8	68	14.3	0.050
W596674		151	7.5	16.3	65	14.6	0.041
W596675		151	5.0	18.5	73	17.3	0.052
W596676		49	4.2	9.1	>10000	20.5	3.04
W596677		145	5.9	17.1	75	14.7	0.042
W596678		143	8.5	18.1	72	14.3	0.066
W596679		148	9.8	17.0	65	15.6	0.156
W596680		153	6.3	19.0	70	16.2	0.055
W596681		143	5.5	18.6	69	14.2	0.107
W596682		152	5.1	14.9	88	17.5	0.181
W596683		151	2.0	19.2	113	17.0	0.043
W596684		157	2.1	21.0	61	16.7	0.029
W596685		158	2.1	19.8	67	16.7	0.030
W596686		154	2.3	19.5	58	15.7	0.037
W596687		147	1.7	19.5	54	14.6	0.039
W596688		154	1.3	20.7	54	14.2	0.017
W596689		152	1.7	19.2	62	15.4	0.092
W596690		158	1.9	19.9	70	15.4	0.043
W596691		160	1.4	20.0	60	15.8	0.033
W596692		153	1.7	18.9	61	15.2	0.035
W596693		2	0.1	2.1	3	1.7	<0.005
W596694		146	4.1	22.2	272	13.1	0.107
W596695		136	3.5	22.8	261	17.1	0.067
W596696		137	11.3	18.0	341	17.0	0.116
W596697		93	10.8	11.4	71	13.6	0.107
W596698		92	8.3	11.6	68	14.2	0.116
W596699		77	9.6	13.1	59	12.6	0.083
W596700		92	7.6	14.0	49	14.3	0.250
W596701		94	9.5	16.5	60	16.1	0.063
W596702		88	14.0	13.5	69	11.7	0.165
W596703		107	6.3	14.0	58	13.7	0.029
W596704		154	16.2	10.6	198	16.2	0.317
W596705		100	9.6	13.0	398	13.5	0.086
W596706		140	5.9	16.2	90	11.7	0.032

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Project: Klaza

Finalized Date: 18-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226276

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 19-DEC-2020
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CERTIFICATE WH20226278

Project: Klaza

P.O. No.: Batch 45

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 19-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226278

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596707		4.80		0.82	7.65	114.5	720	1.22	4.20	3.70	0.37	36.1	11.4	10	9.53	258
W596708		4.63		1.02	7.14	424	220	1.32	4.54	2.76	1.36	52.4	5.7	12	10.60	25.3
W596709		3.97		0.23	7.58	61.3	900	1.31	2.72	3.33	0.29	34.3	8.1	15	8.16	13.2
W596710		3.20		1.21	7.60	15.8	800	1.52	23.5	3.14	0.42	34.8	9.3	15	6.67	106.0
W596711		0.26	1.480	87.8	4.33	3690	200	1.02	48.7	1.44	186.5	30.1	59.4	33	9.50	1210
W596712		5.78		0.46	7.88	37.3	650	1.33	3.32	3.06	0.37	38.9	11.1	14	7.83	69.4
W596713		5.23		0.13	8.67	12.9	730	1.11	0.94	3.21	0.15	37.8	13.4	21	7.40	9.2
W596714		4.05		0.19	8.08	8.5	680	1.02	0.97	3.03	4.78	33.6	17.0	12	7.52	14.1
W596715		5.02		0.34	8.30	13.7	870	1.30	3.68	3.23	7.31	34.1	17.8	12	8.44	44.4
W596716		6.26		0.56	8.12	10.6	400	1.27	3.69	4.43	0.31	49.4	16.0	27	9.11	149.0
W596717		5.20		0.01	0.21	0.6	30	0.12	0.04	31.5	0.02	1.07	0.6	1	0.06	2.6
W596718		5.91		0.32	8.16	9.0	1320	0.97	2.20	3.35	0.23	37.0	13.9	11	11.15	107.0
W596719		6.02		0.27	8.13	19.0	840	1.02	3.26	4.03	0.25	35.5	12.4	7	9.49	19.1
W596720		4.24		2.14	7.81	90.6	380	1.12	7.26	1.41	1.15	59.7	9.8	12	8.14	449
W596721		5.24		2.23	8.19	230	860	1.53	8.69	2.57	1.16	51.8	13.3	15	15.50	499
W596722		4.20		1.28	7.83	28.9	840	1.39	12.90	2.76	2.80	45.2	11.7	12	10.70	113.0
W596723		<0.02		1.16	7.89	25.8	850	1.44	10.45	2.80	2.47	44.3	10.9	12	10.95	103.5
W596724		2.29		1.04	7.90	50.8	790	1.48	4.30	3.00	0.51	49.7	10.1	14	11.10	156.0
W596725		5.04		0.59	7.84	18.5	820	1.43	4.13	3.15	0.97	48.6	10.0	12	8.75	59.8
W596726		6.81		0.24	7.88	11.0	1240	1.45	2.52	3.41	0.14	47.9	10.6	15	8.95	20.7
W596727		4.49		0.91	8.19	48.5	1220	1.71	3.11	3.79	0.34	50.5	12.8	12	9.50	250
W596728		2.57		2.98	7.12	103.0	130	1.42	4.69	2.18	0.53	47.1	40.3	14	7.94	348
W596729		5.88		0.42	7.67	17.6	620	1.49	6.00	3.86	0.27	66.7	19.6	21	10.10	22.8
W596730		6.11		0.20	8.19	12.0	1720	1.59	2.15	3.39	0.23	51.9	9.6	16	10.50	10.5
W596731		1.84		0.15	8.11	11.4	1920	1.49	1.14	3.41	0.23	49.7	9.1	18	10.65	7.8
W596732		3.86		0.25	8.18	15.5	860	1.59	1.68	3.71	0.22	47.1	9.9	13	10.70	27.1
W596733		2.11		4.10	7.60	313	160	1.25	19.40	1.49	1.86	51.1	5.7	11	9.73	520
W596734		3.78		0.26	7.98	17.8	890	1.46	2.03	3.37	0.35	44.7	8.0	18	10.30	35.0
W596735		5.27		1.62	7.74	92.4	650	1.48	9.03	2.81	0.55	46.3	9.8	13	10.05	287
W596736		0.26	1.510	92.1	4.60	3910	140	1.03	49.8	1.50	194.5	31.7	59.7	35	9.84	1280
W596737		4.07		1.41	7.92	53.4	1000	1.38	14.45	3.25	0.66	44.9	7.9	14	8.27	210
W596738		4.54		1.07	7.58	17.5	870	1.27	8.36	3.38	0.84	40.6	8.1	13	9.50	118.5
W596739		4.90		0.95	7.75	22.0	1280	1.35	6.32	2.94	0.78	45.1	10.0	14	8.33	118.0
W596740		2.55		0.38	7.55	279	1700	1.39	1.49	3.01	0.73	46.0	8.8	12	11.60	35.5
W596741		3.47		8.94	6.83	626	130	1.21	25.5	1.21	2.61	54.8	11.0	21	8.13	2220
W596742		5.03		1.05	7.84	47.2	910	1.42	3.47	3.23	1.37	46.7	9.0	12	10.60	177.5
W596743		4.68		0.66	7.64	28.9	1150	1.31	5.69	3.07	0.93	53.1	14.6	12	11.75	74.3
W596744		4.15		0.31	8.03	34.8	1140	1.50	2.26	2.52	1.25	43.2	6.5	11	9.17	55.4
W596745		4.59		0.55	7.64	35.1	1200	1.40	2.72	2.72	0.92	57.2	8.1	12	10.35	78.7
W596746		3.19		2.31	7.71	168.0	340	1.59	6.06	2.44	2.98	48.9	10.1	12	12.50	321

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CERTIFICATE OF ANALYSIS WH20226278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596707		5.35	18.85	0.09	0.4	0.140	1.85	18.0	18.3	1.42	664	0.63	1.62	6.2	5.0	740
W596708		5.00	16.20	0.10	0.5	0.125	2.69	30.4	14.6	1.16	1580	4.39	0.63	7.6	5.0	550
W596709		3.92	16.55	0.08	0.5	0.157	1.72	18.2	17.4	1.12	383	0.55	2.12	7.3	5.1	650
W596710		4.01	17.25	0.09	0.6	0.104	1.86	18.6	15.1	1.31	366	0.36	1.83	8.3	5.7	620
W596711		10.80	11.50	0.09	0.7	4.30	1.83	15.8	28.3	0.50	1750	16.95	0.14	4.5	15.5	340
W596712		4.69	17.80	0.09	0.5	0.163	1.71	20.4	15.5	1.43	459	0.64	2.07	7.2	5.3	670
W596713		4.17	19.50	0.10	0.4	0.074	1.59	19.0	17.5	1.81	520	2.14	2.95	5.7	9.2	770
W596714		4.38	17.95	0.09	0.4	0.103	1.69	16.3	21.7	2.28	552	2.53	2.36	5.4	7.7	830
W596715		5.00	20.4	0.09	0.5	0.177	1.75	15.2	20.5	2.16	632	7.21	2.78	6.1	13.3	760
W596716		4.80	18.85	0.09	0.8	0.182	0.84	24.5	17.5	2.18	676	4.04	2.02	7.7	14.1	1030
W596717		0.12	0.67	<0.05	0.1	<0.005	0.06	1.2	1.0	1.55	85	0.06	0.10	0.6	0.6	50
W596718		4.14	18.70	0.10	0.4	0.153	1.54	19.3	14.7	1.32	378	2.23	2.34	6.1	10.6	730
W596719		5.20	19.35	0.09	0.3	0.187	1.36	17.6	16.3	1.61	478	0.76	2.00	6.3	4.3	790
W596720		5.98	20.2	0.12	0.5	0.682	3.37	35.7	19.4	1.06	602	0.92	0.11	6.8	8.9	530
W596721		5.92	21.7	0.11	0.6	0.444	3.19	28.4	31.2	1.18	1100	5.20	0.08	6.4	8.0	800
W596722		4.49	17.55	0.09	0.5	0.162	1.81	25.5	29.1	1.00	583	0.82	0.95	7.4	5.9	610
W596723		4.36	17.60	0.10	0.5	0.159	1.79	25.2	30.7	1.01	580	0.90	0.98	7.5	5.6	620
W596724		4.73	17.65	0.09	0.6	0.156	1.73	27.6	17.3	1.17	477	0.52	1.56	8.1	5.8	690
W596725		3.81	17.00	0.10	0.6	0.118	1.57	26.8	15.0	1.12	483	1.76	1.97	8.5	4.9	560
W596726		4.06	16.70	0.10	0.6	0.126	1.60	26.4	16.7	1.33	545	1.48	2.28	8.6	6.4	720
W596727		4.93	18.95	0.11	0.8	0.110	2.69	26.3	12.7	1.57	499	1.52	1.94	8.0	6.2	1430
W596728		5.89	17.95	0.12	0.6	0.117	2.55	23.3	14.9	1.49	258	2.16	0.89	5.9	9.0	1230
W596729		6.23	17.35	0.12	0.5	0.165	2.38	34.2	18.5	1.96	764	1.47	1.60	9.9	9.5	1740
W596730		4.21	18.05	0.09	0.6	0.154	1.69	27.2	17.6	1.33	608	0.61	2.77	9.4	6.7	830
W596731		4.04	17.20	0.10	0.6	0.176	1.60	26.6	16.4	1.27	579	0.57	2.72	8.9	6.5	830
W596732		4.35	18.00	0.08	0.6	0.123	1.35	25.0	19.4	1.32	619	0.52	2.40	8.3	5.4	730
W596733		6.30	18.90	0.11	0.5	0.260	3.27	26.7	10.2	0.97	1190	1.57	0.23	7.0	4.1	560
W596734		3.98	16.85	0.09	0.6	0.138	1.66	25.2	19.4	1.12	657	4.59	1.86	8.1	4.9	590
W596735		4.79	17.60	0.10	0.6	0.204	2.06	26.4	15.3	1.11	563	2.70	1.31	7.7	4.7	580
W596736		11.50	11.70	0.10	0.8	4.44	1.95	15.8	29.6	0.53	1860	17.55	0.15	4.7	15.2	370
W596737		4.94	15.90	0.10	0.5	0.137	1.95	25.0	17.1	1.25	552	4.21	1.42	7.6	4.7	610
W596738		4.13	14.80	0.07	0.5	0.107	1.58	22.0	19.8	1.25	652	7.26	1.65	7.6	4.4	580
W596739		4.32	17.10	0.08	0.5	0.119	1.95	24.0	15.7	1.22	561	5.73	2.08	8.4	5.2	590
W596740		3.85	16.10	0.10	0.6	0.176	2.37	25.1	16.0	1.08	855	3.08	1.34	8.1	4.4	570
W596741		7.41	17.15	0.11	0.5	0.580	3.35	29.6	6.6	0.64	553	2.98	0.09	6.8	5.4	500
W596742		3.71	16.10	0.09	0.6	0.202	1.88	25.6	16.6	0.99	581	1.85	1.72	8.2	4.3	550
W596743		4.10	15.95	0.08	0.6	0.114	2.47	30.9	19.2	1.04	634	0.73	1.51	7.7	5.9	540
W596744		3.81	16.60	0.08	0.6	0.123	2.21	23.6	24.3	1.23	498	0.79	1.60	8.5	4.1	570
W596745		4.18	16.35	0.10	0.5	0.132	2.30	33.2	23.1	1.13	548	0.52	1.65	7.9	4.0	530
W596746		4.11	14.85	0.12	0.7	0.217	2.97	26.7	24.0	0.98	658	17.85	1.13	7.0	6.7	590

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 19-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596707		39.7	88.6	<0.002	3.04	7.83	11.8	1	7.7	379	0.41	0.60	3.98	0.333	2.13	2.5
W596708		110.5	165.0	<0.002	3.68	11.35	11.7	<1	9.7	162.0	0.55	0.26	10.50	0.276	3.33	3.2
W596709		24.7	86.8	<0.002	1.51	2.61	10.2	<1	5.1	357	0.62	0.21	9.09	0.287	1.71	3.0
W596710		73.4	93.8	<0.002	1.21	2.42	14.3	<1	4.4	309	0.64	0.27	10.05	0.319	1.82	2.9
W596711		8880	112.0	<0.002	>10.0	221	7.3	2	10.3	85.8	0.35	1.94	6.97	0.139	1.74	4.5
W596712		30.4	91.3	<0.002	1.86	1.73	13.2	1	5.0	355	0.54	0.75	8.37	0.324	1.50	2.1
W596713		19.1	74.0	<0.002	0.85	1.99	16.5	<1	2.3	498	0.39	0.07	4.06	0.391	1.37	1.4
W596714		49.3	68.1	0.002	1.58	2.18	14.2	1	3.1	411	0.35	0.09	4.36	0.369	1.34	1.8
W596715		65.8	91.8	<0.002	1.93	1.81	16.8	1	8.9	380	0.40	0.14	5.53	0.389	1.85	2.4
W596716		21.7	39.0	<0.002	1.28	1.94	20.0	1	7.0	414	0.55	0.13	7.96	0.414	0.93	2.9
W596717		0.6	1.9	<0.002	0.01	0.10	0.2	1	0.2	78.5	0.07	<0.05	0.15	0.005	0.02	0.2
W596718		15.9	80.6	0.002	2.08	2.12	12.8	1	5.8	385	0.42	0.13	6.15	0.303	1.56	2.4
W596719		27.5	66.9	<0.002	2.21	1.82	16.1	<1	5.4	452	0.40	0.16	4.87	0.385	1.49	1.9
W596720		49.6	223	<0.002	3.38	4.96	13.1	1	12.4	49.6	0.60	0.31	12.40	0.213	2.86	3.0
W596721		67.6	177.0	<0.002	2.55	43.0	15.8	1	11.3	88.1	0.41	0.25	6.07	0.309	3.31	3.3
W596722		70.9	97.5	<0.002	1.77	5.43	12.9	1	6.5	222	0.53	1.02	8.48	0.303	1.74	3.4
W596723		66.2	97.9	0.002	1.64	5.57	12.9	<1	6.3	225	0.53	0.80	8.32	0.307	1.82	3.4
W596724		31.0	91.0	<0.002	1.64	3.92	14.5	<1	5.2	298	0.63	0.16	11.60	0.305	1.92	4.5
W596725		32.9	78.0	<0.002	0.91	2.38	12.1	<1	4.0	314	0.66	0.06	11.15	0.310	1.25	3.1
W596726		17.4	74.3	<0.002	0.86	2.34	14.0	<1	3.2	397	0.64	0.10	10.40	0.335	1.04	2.9
W596727		14.9	121.0	<0.002	2.08	1.50	16.2	1	4.4	517	0.55	0.63	8.94	0.423	1.81	3.6
W596728		18.7	164.5	0.002	4.18	4.08	14.5	2	7.2	192.0	0.37	1.03	7.13	0.308	2.40	4.3
W596729		23.5	110.0	0.002	1.99	2.68	18.0	<1	4.2	447	0.72	0.18	11.00	0.463	1.49	3.4
W596730		16.9	80.8	<0.002	0.80	2.82	14.1	<1	3.4	469	0.76	0.07	12.10	0.358	1.21	3.3
W596731		17.2	78.6	<0.002	0.75	2.58	13.8	<1	3.4	463	0.70	<0.05	11.30	0.345	1.22	3.4
W596732		17.5	65.8	<0.002	0.92	3.34	14.5	<1	3.7	415	0.61	0.07	9.40	0.346	1.16	3.0
W596733		309	210	<0.002	5.12	8.45	12.3	1	11.1	57.6	0.51	0.45	8.90	0.263	2.78	3.9
W596734		20.8	86.3	<0.002	0.59	3.10	14.0	<1	3.5	334	0.60	0.05	10.35	0.325	1.51	4.3
W596735		27.1	118.0	<0.002	2.31	3.60	12.8	<1	5.9	255	0.56	0.82	10.10	0.298	1.71	3.4
W596736		9390	115.5	<0.002	>10.0	236	7.4	1	10.8	88.0	0.37	1.99	7.44	0.148	1.89	4.7
W596737		22.7	97.5	<0.002	1.65	2.74	12.5	<1	5.1	267	0.56	1.60	9.74	0.317	1.42	3.3
W596738		26.5	69.0	<0.002	0.50	3.10	11.6	<1	3.2	294	0.56	0.05	9.18	0.314	1.13	2.9
W596739		32.6	85.2	<0.002	0.91	2.99	13.2	<1	3.8	381	0.62	0.13	8.92	0.325	1.39	2.4
W596740		22.1	113.0	<0.002	0.90	8.10	11.5	<1	3.5	299	0.63	0.08	10.70	0.307	2.06	3.3
W596741		103.5	206	<0.002	7.06	14.50	10.7	1	9.6	58.8	0.52	2.34	8.99	0.230	2.34	3.5
W596742		61.6	100.0	<0.002	1.09	4.12	11.2	<1	3.6	330	0.66	0.12	11.10	0.300	1.59	4.4
W596743		28.5	131.0	<0.002	1.56	5.58	11.6	<1	3.4	278	0.61	0.10	11.05	0.289	1.91	3.9
W596744		24.1	110.0	<0.002	0.90	2.32	12.0	<1	3.7	274	0.69	0.06	11.80	0.310	1.64	3.6
W596745		23.8	124.0	<0.002	1.29	2.39	11.1	<1	4.0	290	0.64	0.12	11.00	0.289	1.60	3.1
W596746		129.5	152.0	0.002	1.92	15.10	10.8	1	4.5	292	0.55	0.42	10.45	0.270	2.30	3.8

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VANCOUVER BC V6B 1L8

Finalized Date: 19-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596707		103	7.6	13.0	79	10.7	0.076
W596708		86	11.6	12.5	136	11.4	0.086
W596709		94	1.8	13.5	60	11.1	0.035
W596710		101	4.6	14.4	78	12.2	0.034
W596711		45	4.4	9.7	>10000	22.1	2.85
W596712		107	2.9	15.0	88	12.1	0.046
W596713		140	1.5	19.7	72	9.7	0.009
W596714		139	1.2	19.4	205	12.5	0.012
W596715		162	2.0	21.2	256	15.8	0.034
W596716		182	0.9	22.4	82	22.0	0.047
W596717		1	<0.1	2.3	4	3.0	0.006
W596718		103	2.6	16.7	58	12.1	0.028
W596719		130	2.5	18.3	71	8.5	0.035
W596720		104	4.1	12.2	114	12.3	0.103
W596721		127	8.6	15.6	140	16.5	0.099
W596722		100	6.0	14.1	210	12.1	0.037
W596723		100	5.9	13.8	188	12.7	0.038
W596724		102	5.3	16.3	74	15.4	0.035
W596725		93	2.5	15.6	105	13.2	0.040
W596726		106	1.9	17.4	60	13.1	0.032
W596727		147	8.7	19.8	62	18.6	0.091
W596728		115	21.4	17.1	68	12.9	0.095
W596729		159	2.5	24.6	93	12.2	0.066
W596730		113	1.3	19.8	64	15.6	0.021
W596731		115	1.3	18.6	63	14.5	0.013
W596732		114	1.5	17.9	67	12.8	0.022
W596733		95	7.8	11.4	171	12.3	0.611
W596734		102	2.9	15.4	76	14.1	0.063
W596735		97	6.7	14.3	79	12.6	0.165
W596736		47	4.5	9.8	>10000	22.9	2.97
W596737		102	3.5	15.5	96	12.2	0.176
W596738		96	3.3	14.2	92	11.2	0.044
W596739		102	2.9	15.5	101	11.2	0.466
W596740		95	3.7	14.5	106	11.9	0.083
W596741		77	16.9	10.1	212	12.5	1.155
W596742		91	2.5	14.6	146	13.7	0.144
W596743		89	2.7	15.0	117	12.9	0.051
W596744		96	2.6	15.4	138	12.2	0.024
W596745		91	2.6	14.5	119	12.3	0.167
W596746		86	7.2	13.7	265	16.4	0.090

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Project: Klaza

Finalized Date: 19-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226278

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226282

Project: Klaza

P.O. No.: Batch 46

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226282

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598371		4.97		7.12	7.87	2790	1870	1.65	0.25	3.28	24.4	29.0	6.7	5	13.00	62.9
W598372		2.30		0.14	8.81	11.4	2020	1.58	0.36	4.10	0.40	37.6	7.1	7	7.80	13.2
W598373		0.71		0.17	8.71	23.2	1780	1.45	0.40	4.16	0.40	44.9	9.1	7	7.76	11.7
W598374		6.34		0.11	8.29	5.7	2330	1.54	0.38	3.96	0.54	32.1	7.4	7	8.52	6.6
W598375		5.63		0.09	8.94	9.4	2340	1.42	0.29	4.02	0.34	35.9	6.9	8	12.95	12.7
W598376		5.33		0.12	9.02	4.4	2030	1.52	0.38	3.95	0.37	35.4	5.3	7	8.51	27.5
W598377		5.68		0.13	8.86	21.4	1600	1.50	0.25	4.20	0.37	44.7	6.3	7	8.39	42.7
W598378		5.38		2.42	8.26	428	1160	1.63	0.24	3.86	1.37	55.1	6.4	7	9.34	19.7
W598379		3.86		0.32	8.52	26.3	690	1.40	0.34	3.28	0.58	27.0	5.8	6	9.59	28.5
W598380		<0.02		0.31	7.87	25.3	690	1.35	0.33	3.16	0.54	22.3	5.5	6	8.56	28.0
W598381		2.05		4.25	7.10	752	290	1.76	0.29	2.19	8.36	26.7	6.5	5	15.80	28.7
W598382		2.09		4.77	6.69	1675	230	1.49	0.33	2.21	11.10	25.7	6.6	5	16.50	29.2
W598383		1.99		0.94	7.46	93.6	1690	1.43	0.30	2.63	1.06	18.90	4.1	4	17.60	17.7
W598384		1.88		0.23	7.35	58.0	1670	1.26	0.27	2.31	0.37	12.00	3.6	5	13.25	14.2
W598385		5.33		0.17	8.20	12.7	1830	1.47	0.63	4.77	0.69	26.9	6.4	10	13.65	9.2
W598386		4.36		0.19	8.17	9.1	2250	1.48	0.28	3.67	0.89	24.7	6.3	6	10.25	19.0
W598387		1.83		46.0	7.01	1180	1620	1.33	0.21	3.16	21.9	19.60	6.5	6	12.75	240
W598388		5.27		0.05	0.24	1.3	50	0.10	0.07	32.3	0.05	1.29	0.6	1	0.18	2.4
W598389		4.23		0.41	7.71	150.0	1870	1.35	0.39	3.47	0.50	23.4	6.0	5	13.60	28.7
W598390		2.27		2.40	8.23	74.7	2110	1.51	0.87	4.65	4.74	26.9	6.3	5	13.85	36.2
W598391		3.41		0.17	8.51	7.0	1770	1.33	0.29	3.79	0.45	30.2	7.3	9	8.92	64.6
W598392		4.91		0.12	9.18	6.2	2140	1.41	0.36	3.75	0.39	33.6	7.1	8	8.21	39.0
W598393		2.20		0.43	8.02	12.1	2500	1.28	0.63	3.65	0.35	22.0	8.5	10	6.66	263
W598394		0.26		9.90	6.68	1990	210	1.60	5.54	1.77	38.0	46.4	10.8	29	17.35	202
W598395		4.08		0.09	8.48	6.3	2150	1.40	0.26	3.66	0.24	28.9	6.8	8	9.88	24.2
W598396		1.74		0.54	9.32	176.0	1920	1.68	0.32	2.67	2.12	28.1	5.8	6	8.74	21.6
W598397		4.39		1.12	8.45	60.6	2190	1.33	1.32	2.33	1.14	27.2	9.4	6	12.75	134.5
W598398		5.66		0.25	7.72	16.1	1980	1.45	0.93	3.90	0.65	24.8	6.7	8	8.93	50.6
W598399		2.12		0.15	7.62	6.9	1840	1.37	0.31	3.94	0.26	28.5	5.5	9	9.22	17.2
W598400		5.94		0.17	8.39	54.6	2530	1.30	0.31	2.60	0.33	26.3	7.4	7	10.50	16.9
W598401		2.88		0.51	7.67	68.7	1970	1.38	0.26	3.95	0.95	26.5	7.0	6	9.67	21.1
W598402		1.99		20.0	7.63	1455	530	1.39	0.35	2.27	91.1	21.4	6.6	6	9.99	283
W598403		0.26	1.495	94.1	4.65	4040	410	1.03	52.8	1.56	199.5	32.5	60.4	34	9.69	1290
W598404		2.59		0.60	8.58	196.5	1910	1.32	0.46	2.15	0.67	26.2	6.6	6	10.75	11.4
W598405		2.19		5.02	7.93	1970	1490	1.42	0.35	2.85	12.15	28.5	8.2	6	12.05	88.3
W598406		1.90		6.52	7.76	893	2010	1.50	0.50	3.73	6.27	30.3	8.2	5	14.35	59.1
W598407		5.88		0.97	7.83	129.0	2190	1.47	1.00	4.12	1.63	24.6	8.5	7	11.30	70.5
W598408		5.08		0.45	8.53	10.8	550	1.62	1.41	4.39	1.47	28.5	10.4	7	5.96	44.0
W598409		4.88		0.12	7.42	13.3	1930	1.50	0.29	3.77	0.46	23.7	6.6	8	17.05	11.3
W598410		1.71		0.15	7.35	19.0	1600	1.39	0.25	3.61	0.34	24.6	5.9	8	19.50	5.1

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598371		3.44	17.45	0.10	0.3	0.075	2.34	10.5	114.0	0.85	1300	2.95	0.94	7.1	3.0	1140
W598372		4.12	19.20	0.11	0.4	0.090	1.81	13.8	18.2	0.81	924	3.94	3.71	8.6	3.2	1260
W598373		5.06	19.05	0.13	0.4	0.094	1.62	19.8	20.2	0.94	954	1.91	3.66	8.3	3.8	1430
W598374		3.28	18.20	0.11	0.3	0.103	2.31	12.1	24.6	0.72	1140	1.62	3.40	7.6	2.5	1120
W598375		3.98	18.90	0.11	0.4	0.092	2.06	13.3	17.8	0.80	973	2.64	3.75	7.7	3.1	1260
W598376		3.57	19.65	0.13	0.4	0.104	2.20	13.7	20.5	0.77	911	3.46	3.82	7.4	3.1	1210
W598377		3.73	19.85	0.14	0.4	0.092	1.74	17.4	24.8	1.08	1010	13.10	4.04	8.5	3.4	1250
W598378		2.99	17.60	0.14	0.4	0.051	2.09	23.0	25.5	0.93	1160	2.60	2.29	8.1	2.8	1160
W598379		3.31	19.45	0.08	0.4	0.068	1.38	10.1	124.0	0.89	1450	2.86	0.06	7.1	2.9	1180
W598380		3.15	18.45	0.08	0.4	0.066	1.36	8.2	120.0	0.82	1410	2.80	0.05	6.8	2.6	1130
W598381		2.84	15.85	0.08	0.3	0.053	2.51	10.1	114.5	0.71	1690	5.11	0.04	5.8	2.5	890
W598382		2.91	14.70	0.07	0.3	0.066	2.74	10.9	47.5	0.75	1960	3.00	0.02	5.4	2.7	790
W598383		1.94	15.20	0.10	0.3	0.040	3.00	7.1	60.0	0.80	1780	1.46	0.02	4.6	2.3	580
W598384		1.69	15.25	0.08	0.3	0.041	3.03	5.1	118.0	0.60	1080	12.10	0.32	4.2	1.5	470
W598385		3.73	21.1	0.11	0.4	0.102	2.11	9.6	21.9	0.65	1330	5.39	3.37	7.4	2.7	1120
W598386		3.04	17.25	0.10	0.4	0.064	2.26	9.3	18.3	0.58	763	3.09	2.98	6.9	4.2	1110
W598387		2.75	16.05	0.09	0.3	0.066	2.58	6.7	35.3	0.64	1200	2.51	1.08	5.4	2.5	800
W598388		0.12	0.60	0.15	<0.1	<0.005	0.08	1.3	1.5	1.20	97	0.09	0.09	0.4	0.8	80
W598389		2.78	17.70	0.16	0.3	0.055	2.62	8.5	30.9	0.74	1200	8.71	1.34	6.5	2.3	960
W598390		3.27	19.65	0.13	0.4	0.078	2.46	9.8	13.1	0.58	1080	19.30	3.37	8.1	2.4	1110
W598391		3.50	18.70	0.11	0.4	0.070	1.98	11.8	22.3	0.66	901	4.91	3.77	7.9	3.2	1160
W598392		3.52	18.40	0.11	0.4	0.063	2.13	13.0	26.1	0.90	904	90.1	3.78	7.2	2.8	1160
W598393		3.48	18.15	0.11	0.4	0.138	2.17	8.4	26.0	0.67	915	8.85	3.51	5.8	2.1	880
W598394		5.99	13.95	0.10	0.9	0.689	2.93	25.4	46.6	0.74	1980	8.23	0.07	6.1	17.4	520
W598395		3.14	18.95	0.10	0.4	0.060	2.14	10.4	21.4	0.77	845	3.66	3.67	7.6	2.7	1060
W598396		3.10	21.4	0.10	0.4	0.054	2.35	11.0	27.7	0.55	755	19.15	2.00	8.4	2.9	1150
W598397		3.15	19.70	0.10	0.3	0.095	2.34	11.1	34.8	0.56	933	5.33	1.61	8.1	3.4	1150
W598398		3.17	20.9	0.12	0.4	0.079	2.21	9.5	16.8	0.73	1110	8.01	3.47	10.3	2.6	1120
W598399		2.85	20.1	0.13	0.4	0.070	2.13	10.0	13.8	0.61	856	2.47	3.13	7.1	2.3	940
W598400		3.33	20.8	0.12	0.5	0.058	2.21	10.0	30.2	0.50	1180	3.81	1.31	9.2	2.8	1140
W598401		3.16	21.1	0.11	0.4	0.064	2.26	10.2	20.0	0.62	1840	4.95	1.95	8.6	2.8	1100
W598402		4.01	17.90	0.07	0.4	0.387	2.91	7.5	26.9	0.56	3190	3.65	0.05	7.3	2.6	1080
W598403		11.50	11.90	0.06	0.7	4.55	1.97	15.9	31.8	0.54	1890	17.60	0.15	4.3	15.3	380
W598404		3.13	22.4	0.07	0.5	0.080	1.65	9.7	55.5	0.57	1560	6.13	0.05	9.9	2.7	1170
W598405		3.78	21.0	0.09	0.5	0.083	3.02	10.7	26.5	0.73	2870	11.15	0.09	7.8	3.3	1190
W598406		3.44	19.85	0.10	0.4	0.077	2.34	12.0	74.1	1.01	2910	7.40	0.07	7.4	3.2	1080
W598407		3.20	21.2	0.16	0.5	0.088	2.43	9.6	27.0	0.72	1570	6.70	3.13	8.7	3.3	1050
W598408		4.05	22.3	0.14	0.5	0.138	0.90	11.7	15.3	0.85	1980	6.47	4.65	8.1	2.9	1020
W598409		3.43	20.6	0.17	0.4	0.067	1.99	9.2	63.2	0.56	1040	0.96	2.01	8.3	3.3	1030
W598410		3.00	19.35	0.12	0.4	0.051	1.96	9.8	135.0	0.75	1170	1.47	0.31	7.5	3.4	1050

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598371		914	74.6	0.002	1.07	29.9	7.9	<1	3.7	398	0.44	<0.05	1.63	0.284	1.53	1.8
W598372		29.1	45.4	0.012	0.27	2.31	8.6	<1	3.2	982	0.51	0.08	1.99	0.310	0.63	1.1
W598373		29.1	46.1	0.003	0.97	2.15	8.7	1	3.9	943	0.52	0.20	2.15	0.306	0.66	1.3
W598374		36.8	63.9	0.002	0.09	1.98	7.8	<1	3.0	896	0.45	<0.05	1.66	0.284	0.82	0.7
W598375		27.6	62.2	<0.002	0.15	2.35	9.2	1	3.9	1060	0.45	<0.05	2.12	0.335	0.76	0.8
W598376		33.3	68.1	0.005	0.03	1.96	8.2	<1	4.6	959	0.45	<0.05	1.67	0.300	0.72	0.8
W598377		31.9	55.4	0.021	0.14	2.14	8.5	<1	4.2	908	0.47	<0.05	1.94	0.307	0.72	1.4
W598378		190.0	90.1	0.003	1.50	12.95	7.5	1	4.3	516	0.43	0.05	2.35	0.264	1.45	1.9
W598379		25.5	35.3	0.003	0.21	30.3	7.8	<1	4.0	170.0	0.43	<0.05	1.70	0.290	1.04	1.0
W598380		24.5	27.1	<0.002	0.20	29.9	7.1	<1	3.9	165.0	0.42	<0.05	1.42	0.285	1.05	0.9
W598381		442	97.5	<0.002	2.02	39.4	6.3	<1	3.8	128.0	0.34	<0.05	1.46	0.229	2.42	1.3
W598382		402	135.5	<0.002	2.22	53.7	6.4	<1	4.9	93.6	0.36	<0.05	1.76	0.201	3.34	2.0
W598383		53.6	110.5	<0.002	0.76	21.5	4.4	1	1.7	199.0	0.28	<0.05	1.09	0.153	3.56	1.1
W598384		17.3	97.1	0.004	0.24	17.55	3.6	<1	1.9	251	0.26	<0.05	0.85	0.135	2.21	0.8
W598385		43.6	61.6	0.002	0.05	3.78	7.0	<1	8.6	864	0.46	<0.05	1.47	0.290	0.89	0.9
W598386		42.8	61.6	<0.002	0.09	2.60	6.8	<1	2.3	884	0.43	<0.05	1.50	0.276	0.82	0.6
W598387		714	80.1	<0.002	0.87	90.9	5.6	<1	3.5	421	0.34	<0.05	1.02	0.214	1.50	0.7
W598388		1.8	2.3	<0.002	<0.01	0.23	0.3	1	0.2	89.9	<0.05	<0.05	0.11	0.007	0.03	0.3
W598389		38.9	79.3	0.002	0.26	12.70	6.0	<1	2.9	472	0.42	<0.05	1.46	0.247	1.59	0.9
W598390		360	76.6	<0.002	0.16	4.30	7.5	<1	2.9	893	0.53	<0.05	1.61	0.298	0.97	0.9
W598391		31.7	57.6	<0.002	0.04	2.06	8.7	<1	2.7	826	0.49	<0.05	2.18	0.302	0.69	2.1
W598392		26.6	62.0	0.006	0.04	1.08	8.1	<1	2.6	995	0.43	<0.05	1.89	0.300	0.59	1.0
W598393		32.0	62.1	<0.002	0.92	3.53	6.0	<1	2.2	915	0.36	0.07	1.33	0.231	0.76	1.0
W598394		1795	158.5	<0.002	3.49	50.0	9.0	1	6.5	80.8	0.46	0.27	10.55	0.210	2.75	4.2
W598395		21.5	54.5	<0.002	0.04	1.13	7.8	<1	1.9	1000	0.47	<0.05	1.73	0.277	0.60	0.9
W598396		93.9	61.0	<0.002	0.13	13.70	8.0	<1	2.4	566	0.56	<0.05	2.17	0.286	0.73	1.3
W598397		109.5	68.3	0.003	0.45	34.2	7.8	1	2.5	462	0.54	0.07	1.84	0.290	0.85	0.9
W598398		43.5	54.2	0.005	0.15	2.60	7.1	<1	2.7	847	0.81	0.11	1.91	0.286	0.84	1.1
W598399		19.9	56.6	0.004	0.24	2.84	6.2	<1	3.4	738	0.49	0.06	1.38	0.249	0.82	1.2
W598400		26.9	53.9	0.003	0.18	20.4	7.9	<1	2.0	481	0.72	<0.05	1.80	0.301	0.90	1.1
W598401		77.8	61.8	0.002	0.52	10.15	7.7	<1	3.0	636	0.61	<0.05	1.63	0.288	1.07	1.0
W598402		2520	92.6	0.002	3.29	72.8	6.5	<1	3.5	123.5	0.47	<0.05	1.26	0.274	2.48	0.9
W598403		9240	115.5	0.002	>10.0	228	7.0	2	11.3	88.8	0.35	2.16	7.00	0.137	1.92	4.5
W598404		28.8	40.8	0.004	0.33	27.4	8.4	<1	2.4	139.0	0.70	0.05	1.77	0.316	1.53	1.4
W598405		554	80.7	0.010	2.09	55.3	7.6	1	3.2	172.5	0.51	<0.05	1.64	0.289	2.51	1.0
W598406		721	66.4	0.006	1.24	44.9	7.5	<1	2.8	211	0.52	<0.05	1.64	0.278	1.90	1.3
W598407		134.5	65.6	0.002	0.27	7.43	7.0	1	2.5	717	0.68	0.06	1.92	0.269	1.06	1.1
W598408		83.9	20.8	0.003	0.16	4.56	7.3	1	2.4	854	0.53	0.10	1.92	0.266	0.47	1.4
W598409		26.8	53.2	0.002	0.05	15.40	6.9	<1	2.3	720	0.65	<0.05	1.40	0.271	0.88	0.9
W598410		20.5	48.4	0.003	0.17	20.1	7.3	<1	2.0	329	0.48	0.07	1.56	0.277	1.30	1.3

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CERTIFICATE OF ANALYSIS WH20226282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598371		89	2.1	14.1	1810	6.6	0.301
W598372		101	1.1	20.9	88	8.4	0.014
W598373		111	1.0	24.1	92	8.1	0.009
W598374		86	1.1	16.0	103	6.7	0.015
W598375		100	2.0	17.0	99	6.9	0.009
W598376		92	1.8	16.7	89	6.6	0.007
W598377		95	1.5	19.4	85	8.5	0.023
W598378		63	2.1	19.3	154	8.1	0.090
W598379		89	6.5	12.5	97	6.9	0.012
W598380		85	6.5	11.1	96	6.6	0.014
W598381		74	3.3	9.7	597	5.8	0.102
W598382		67	5.8	10.1	870	5.5	0.385
W598383		51	3.8	9.2	109	5.4	0.016
W598384		44	3.1	6.4	56	7.1	0.019
W598385		101	2.4	14.6	120	7.8	0.009
W598386		83	4.3	10.7	114	6.4	0.009
W598387		66	1.5	10.1	1520	6.6	0.941
W598388		2	0.2	2.1	7	1.4	0.009
W598389		78	2.6	11.2	81	5.5	0.066
W598390		92	2.0	15.0	442	7.3	0.129
W598391		98	1.9	14.2	92	8.1	0.035
W598392		92	2.9	16.9	86	6.1	0.020
W598393		84	2.6	11.8	74	6.1	0.092
W598394		64	5.7	11.0	2840	28.1	0.646
W598395		83	1.6	15.8	68	6.4	0.021
W598396		86	2.2	15.5	209	6.0	0.080
W598397		90	4.4	12.6	142	4.4	0.076
W598398		87	2.0	13.6	111	5.6	0.022
W598399		85	1.0	13.5	72	6.1	0.013
W598400		91	3.2	15.1	81	7.1	0.008
W598401		88	1.4	14.2	117	6.3	0.027
W598402		82	2.8	10.2	7240	5.2	0.490
W598403		48	4.4	9.4	>10000	21.0	2.94
W598404		92	7.2	12.3	91	7.9	0.055
W598405		97	3.3	13.9	1320	7.2	0.741
W598406		88	2.6	14.8	476	6.7	0.498
W598407		81	2.7	14.7	167	7.3	0.106
W598408		79	2.8	15.2	173	7.5	0.017
W598409		82	2.9	13.4	93	7.2	0.013
W598410		85	2.6	14.1	84	6.5	0.011

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Project: Klaza

Finalized Date: 22-DEC-2020
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CERTIFICATE OF ANALYSIS WH20226282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226286

Project: Klaza

P.O. No.: Batch 47

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226286

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596747		2.24		0.14	7.49	56.4	1710	1.71	0.24	4.17	1.04	82.6	9.8	44	15.85	28.7
W596748		4.64		3.76	6.69	883	440	1.38	6.10	2.44	12.50	46.7	9.1	11	17.80	112.5
W596749		5.17		1.85	7.25	253	820	1.35	4.59	2.44	14.10	44.3	7.6	15	13.25	109.0
W596750		5.45		14.20	7.07	228	1060	1.27	157.5	2.81	6.80	42.3	7.5	13	13.40	223
W596751		5.31		1.41	7.37	82.9	990	1.43	8.11	2.77	1.34	46.4	8.2	15	13.30	242
W596752		0.26	1.495	90.0	4.40	3840	370	0.91	53.4	1.47	187.5	31.2	59.0	35	9.53	1190
W596753		5.55		0.43	6.93	23.1	680	1.13	3.18	2.51	0.66	38.2	7.3	14	8.19	31.1
W596754		5.70		3.56	7.46	111.0	500	1.37	14.40	1.70	1.93	46.6	8.0	14	12.15	1355
W596755		6.19		0.21	7.18	16.9	1190	1.21	1.38	2.83	0.25	41.0	8.2	17	11.55	31.4
W596756		5.82		0.25	7.32	18.4	1220	1.29	2.49	2.18	0.25	40.5	7.4	14	17.75	35.3
W596757		5.79		0.31	7.27	15.1	950	1.25	2.91	2.42	0.26	41.8	11.1	17	10.45	32.6
W596758		6.16		0.06	7.27	9.5	1340	1.18	0.63	2.72	0.13	40.3	8.7	17	7.66	2.7
W596759		0.26	1.460	88.8	4.41	3910	590	0.98	53.8	1.48	190.5	32.8	61.2	35	10.00	1195
W596760		6.17		0.48	7.60	21.1	1330	1.18	6.78	2.88	0.76	39.1	8.6	16	9.73	20.8
W596761		6.00		0.58	7.34	22.3	870	1.22	9.65	2.19	0.50	46.4	9.6	13	8.66	60.6
W596762		1.98		0.58	7.39	22.2	900	1.36	12.20	2.28	0.48	49.2	9.7	14	9.24	60.0
W596763		2.96		4.29	7.21	82.8	250	1.56	18.00	1.68	1.29	47.5	19.6	13	8.95	1315
W596764		2.08		1.17	7.94	62.9	1040	1.66	16.50	1.79	0.79	51.2	7.9	15	12.75	198.5
W596765		6.23		7.61	6.46	713	150	1.22	30.5	1.84	11.40	43.0	5.1	12	7.83	442
W596766		6.16		1.59	7.37	79.4	660	1.61	37.1	2.53	1.58	47.0	5.4	14	13.50	180.5
W596767		3.93		3.27	6.79	305	440	1.26	20.7	2.63	6.86	42.5	5.4	13	10.45	89.0
W596768		5.04		0.01	0.18	0.6	40	0.10	0.21	33.2	0.03	1.19	0.5	2	0.07	1.8
W596769		2.11		5.01	5.15	836	110	1.02	32.2	3.71	8.72	38.8	8.6	10	5.09	225
W596770		2.69		9.67	6.67	976	110	1.44	89.2	1.18	26.2	44.7	5.5	13	10.65	562
W596771		5.96		0.66	7.30	35.3	980	1.58	14.65	3.05	1.63	49.3	6.8	18	10.70	65.4
W596772		2.33		13.05	5.78	1820	90	1.13	32.3	1.53	26.2	37.0	26.3	16	5.69	1575
W596773		5.88		0.96	7.09	67.3	430	1.22	13.90	2.84	1.21	51.2	4.3	13	9.81	123.0
W596774		6.48		1.42	7.90	331	940	1.48	6.02	3.43	3.32	47.5	6.5	15	8.33	290
W596775		4.74		0.50	8.09	33.5	690	1.44	5.84	2.86	0.51	52.1	5.7	15	6.60	84.4
W596776		<0.02		0.48	7.92	31.7	660	1.39	5.41	2.77	0.56	48.1	5.5	15	6.28	81.1
W596777		5.91		0.26	6.55	17.7	350	1.20	2.54	2.23	0.43	35.6	3.4	16	3.71	55.9
W596778		5.80		0.21	7.95	19.8	990	1.46	2.52	3.05	0.18	50.2	5.6	17	6.97	50.5
W596779		5.80		0.46	7.64	33.4	480	1.38	5.24	3.12	0.36	39.0	6.3	14	6.27	65.5
W596780		4.82		0.28	8.10	23.2	440	1.53	3.97	2.74	0.37	50.2	8.5	14	4.75	66.9
W596781		4.97		0.23	7.84	20.4	550	1.42	2.82	3.76	0.28	46.7	7.4	15	6.90	32.0
W596782		5.10		0.27	8.01	26.6	640	1.38	2.60	3.28	0.30	49.3	6.1	15	6.96	47.4
W596783		5.12		0.15	7.67	15.8	1260	1.22	1.07	3.45	0.19	44.9	7.7	15	5.19	23.0
W596784		4.90		1.10	8.10	156.5	1250	1.60	6.20	2.90	1.65	54.5	7.9	15	5.54	107.0
W596785		4.93		1.33	8.10	35.0	1220	1.36	8.74	2.26	0.56	54.4	6.7	16	5.88	478
W596786		3.32		2.36	8.35	72.7	390	1.48	30.5	1.92	0.65	59.8	7.5	12	5.31	277

***** See Appendix Page for comments regarding this certificate *****

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596747		3.25	19.95	0.17	3.8	0.039	2.37	43.5	71.7	1.50	978	3.19	0.09	12.0	18.4	1590
W596748		3.86	16.50	0.15	0.6	0.248	3.06	26.2	16.5	0.96	4460	15.75	0.03	6.7	5.0	500
W596749		4.01	17.65	0.15	0.5	0.615	2.77	24.6	12.1	0.91	1570	1.27	0.69	7.5	5.1	520
W596750		4.03	16.40	0.15	0.6	0.206	2.82	22.9	11.5	0.98	761	0.73	0.94	7.5	4.7	510
W596751		4.22	18.25	0.19	0.6	0.180	2.52	23.6	76.0	0.92	677	2.48	0.83	9.4	5.6	580
W596752		10.95	11.75	0.08	0.7	4.52	1.86	15.3	28.1	0.51	1800	16.85	0.15	4.3	14.9	350
W596753		3.87	16.55	0.07	0.6	0.150	1.51	19.5	35.5	0.90	764	3.37	0.06	7.6	5.8	540
W596754		5.18	19.25	0.10	0.5	0.616	2.84	24.5	22.3	0.76	738	1.91	0.28	7.2	4.8	540
W596755		3.59	16.90	0.13	0.5	0.104	2.00	21.1	13.4	1.00	374	0.35	2.15	7.7	5.0	560
W596756		3.44	16.90	0.14	0.5	0.096	2.12	21.3	22.2	0.72	397	0.50	1.14	7.5	4.4	560
W596757		3.47	17.00	0.18	0.6	0.127	1.81	21.0	16.3	0.83	348	0.57	1.97	8.1	5.0	520
W596758		3.36	16.95	0.16	0.5	0.096	2.19	21.4	12.5	1.08	315	0.39	2.18	7.5	4.8	530
W596759		10.95	12.55	0.10	0.8	4.77	1.87	16.2	28.7	0.52	1830	18.15	0.15	4.7	15.5	370
W596760		3.86	17.30	0.14	0.5	0.094	2.31	20.1	16.9	1.05	342	0.42	1.81	7.5	4.7	560
W596761		4.14	17.15	0.09	0.7	0.127	2.02	25.4	22.3	0.80	450	1.36	0.84	7.2	4.8	580
W596762		4.34	18.45	0.09	0.6	0.124	2.02	25.5	24.1	0.82	500	1.16	0.77	7.8	5.0	600
W596763		4.93	19.30	0.10	0.5	0.519	3.08	24.2	13.0	0.95	300	3.14	0.40	5.8	6.2	520
W596764		4.58	17.95	0.11	0.5	0.160	2.38	27.8	33.4	0.93	882	11.15	0.10	7.7	5.4	660
W596765		6.24	19.50	0.09	0.5	0.269	3.18	22.6	7.3	0.79	2940	7.92	0.04	5.5	4.2	560
W596766		3.81	18.55	0.11	0.6	0.176	2.67	24.2	24.3	0.93	1140	5.56	0.24	7.2	5.1	530
W596767		4.21	16.45	0.09	0.5	0.142	3.17	23.6	6.3	1.04	3500	12.50	0.04	6.0	4.3	480
W596768		0.12	0.60	<0.05	0.1	<0.005	0.08	1.1	1.4	1.53	102	0.09	0.07	0.3	0.5	60
W596769		6.91	14.35	0.09	0.4	0.251	2.59	20.1	10.6	1.50	3240	30.1	0.03	4.4	5.2	390
W596770		9.21	19.85	0.09	0.5	1.285	3.17	23.5	8.6	0.82	1820	9.43	0.04	5.5	5.8	480
W596771		3.74	17.65	0.11	0.7	0.143	2.44	25.2	18.7	0.96	664	0.34	1.04	7.6	5.2	560
W596772		8.34	15.00	0.10	0.5	0.972	2.85	17.4	6.1	0.71	1000	15.45	0.04	4.3	16.2	670
W596773		3.47	16.75	0.09	0.6	0.113	2.23	25.4	12.5	1.14	854	0.46	0.98	6.7	4.6	500
W596774		4.19	17.65	0.10	0.7	0.171	2.18	26.1	9.8	1.08	663	0.53	1.47	6.9	5.0	580
W596775		3.93	18.80	0.10	0.7	0.104	2.48	25.2	9.2	1.21	313	2.49	1.74	7.6	4.0	600
W596776		3.86	17.60	0.09	0.7	0.122	2.38	23.8	8.7	1.19	309	1.85	1.74	7.5	4.1	630
W596777		3.25	14.60	0.09	0.5	0.099	1.13	17.6	11.1	1.11	321	0.80	2.17	6.0	3.5	460
W596778		3.77	17.45	0.10	0.7	0.104	1.69	26.9	13.3	1.16	414	0.36	2.56	8.3	5.3	550
W596779		3.59	17.40	0.08	0.7	0.104	1.25	17.4	13.3	1.26	426	0.37	2.57	8.3	5.0	750
W596780		3.91	17.75	0.10	0.7	0.117	1.35	24.5	12.8	1.27	395	0.40	2.95	7.8	7.0	590
W596781		2.97	17.60	0.11	0.6	0.121	1.19	23.8	12.9	1.20	422	0.30	2.49	7.5	4.4	590
W596782		3.51	17.80	0.10	0.6	0.121	1.29	25.6	10.8	1.25	426	0.28	2.63	7.6	5.0	600
W596783		3.70	16.65	0.11	0.6	0.115	2.05	23.7	8.3	1.22	542	0.31	1.98	7.7	5.4	570
W596784		4.88	19.15	0.10	0.8	0.117	2.97	30.8	10.8	1.25	560	0.60	1.29	8.7	5.7	590
W596785		4.79	19.10	0.11	0.7	0.180	2.78	28.7	12.4	1.24	358	0.47	1.70	8.8	4.8	590
W596786		6.22	21.9	0.13	0.7	0.165	3.14	31.6	14.2	1.39	326	1.08	0.64	8.9	5.9	670

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596747		20.9	99.7	<0.002	0.12	21.0	7.9	<1	1.9	231	0.74	<0.05	9.76	0.375	1.57	6.9
W596748		863	205	<0.002	2.98	49.0	10.4	1	7.0	101.0	0.56	0.33	10.55	0.234	3.63	4.8
W596749		476	159.5	<0.002	1.91	14.35	11.7	1	7.1	186.5	0.55	0.11	9.04	0.272	2.83	2.9
W596750		961	140.0	<0.002	1.80	39.4	11.6	1	4.6	232	0.62	0.28	10.45	0.269	2.56	3.5
W596751		43.0	127.0	<0.002	1.63	68.8	12.7	1	5.1	197.0	0.68	1.46	9.80	0.298	2.28	5.6
W596752		8900	114.5	<0.002	>10.0	215	6.6	1	11.1	88.3	0.33	2.21	7.30	0.135	1.96	4.5
W596753		35.0	51.9	<0.002	1.02	23.7	11.2	1	4.0	118.0	0.61	0.06	9.21	0.277	1.31	8.8
W596754		65.1	165.0	0.002	3.07	29.2	11.9	2	9.2	105.0	0.59	2.22	10.20	0.262	2.52	4.5
W596755		18.5	84.9	<0.002	0.70	1.79	11.2	1	3.4	347	0.60	0.06	9.07	0.280	1.35	2.5
W596756		19.6	87.1	<0.002	0.63	11.30	11.7	<1	3.2	235	0.63	0.06	10.45	0.280	1.23	3.3
W596757		18.7	91.3	<0.002	0.91	4.32	11.6	<1	3.9	270	0.66	0.06	10.70	0.279	1.44	2.7
W596758		13.8	95.0	<0.002	0.47	1.48	12.0	1	3.0	376	0.60	<0.05	10.00	0.284	1.38	2.6
W596759		9000	119.5	0.002	>10.0	223	7.0	2	11.7	92.7	0.35	2.21	7.58	0.137	1.99	4.6
W596760		31.0	92.5	<0.002	1.10	2.80	11.4	<1	4.6	353	0.61	0.22	9.32	0.298	1.54	3.0
W596761		26.0	101.0	<0.002	1.53	13.35	10.7	1	4.4	189.5	0.67	0.21	11.05	0.280	1.75	5.6
W596762		25.1	99.1	<0.002	1.49	14.50	11.8	<1	4.8	187.0	0.70	0.22	10.90	0.296	1.61	5.8
W596763		24.8	203	<0.002	3.54	26.8	10.6	1	9.7	96.7	0.46	1.50	10.15	0.234	2.37	2.8
W596764		38.9	108.0	<0.002	1.40	41.6	12.4	<1	4.9	84.9	0.63	0.38	11.20	0.315	2.29	4.1
W596765		1010	180.5	<0.002	5.79	40.8	10.0	<1	11.9	43.5	0.48	0.87	9.87	0.217	2.92	3.8
W596766		72.6	135.0	<0.002	1.57	51.3	11.1	1	6.1	118.0	0.62	1.39	11.65	0.270	2.83	4.4
W596767		320	180.5	<0.002	2.85	34.4	10.3	<1	8.3	61.7	0.52	0.63	10.60	0.240	3.37	3.3
W596768		1.3	2.3	<0.002	0.01	0.23	0.2	2	0.2	80.4	<0.05	<0.05	0.19	0.005	0.03	0.3
W596769		333	167.0	0.003	6.21	92.4	8.3	2	10.0	60.2	0.37	0.83	6.95	0.175	2.08	3.9
W596770		393	182.0	<0.002	7.45	163.5	11.6	2	12.8	35.9	0.44	1.31	8.89	0.229	3.04	3.5
W596771		34.7	110.5	<0.002	1.43	4.92	12.1	<1	5.4	251	0.65	0.53	11.80	0.291	2.18	3.6
W596772		834	181.5	0.003	7.83	9.27	8.5	2	11.0	34.4	0.36	1.85	9.45	0.166	2.23	2.7
W596773		56.7	120.5	<0.002	1.05	3.68	10.7	1	6.2	164.5	0.60	0.31	11.20	0.259	2.31	4.7
W596774		117.5	101.0	<0.002	1.17	5.47	11.6	<1	5.3	297	0.58	0.15	10.55	0.297	1.75	3.1
W596775		30.1	142.0	<0.002	1.64	1.65	12.9	<1	7.3	221	0.66	0.17	12.55	0.308	2.14	3.3
W596776		28.5	135.0	0.002	1.55	1.62	12.3	1	7.1	217	0.64	0.10	11.70	0.303	2.00	3.1
W596777		19.0	67.9	<0.002	0.84	1.58	9.2	1	4.9	253	0.46	0.12	8.82	0.245	1.03	2.3
W596778		17.8	72.8	<0.002	0.71	1.89	12.5	<1	4.9	422	0.74	0.06	13.55	0.312	1.18	4.7
W596779		20.4	60.3	<0.002	1.00	2.03	12.6	1	5.5	368	0.73	0.23	11.45	0.325	1.07	3.3
W596780		15.7	74.0	<0.002	1.39	1.77	12.6	1	5.3	386	0.62	0.26	11.75	0.313	1.24	3.3
W596781		15.1	51.0	0.002	0.67	1.66	11.9	1	4.5	444	0.58	0.10	11.45	0.311	0.92	3.2
W596782		15.1	62.9	0.002	0.75	1.68	12.5	1	4.6	453	0.60	0.08	10.05	0.321	1.04	2.9
W596783		20.2	67.4	<0.002	0.52	1.68	12.1	<1	3.1	400	0.59	0.07	10.05	0.315	1.06	2.6
W596784		77.2	130.0	<0.002	1.78	3.86	13.2	1	5.7	263	0.77	0.26	11.90	0.318	1.88	3.6
W596785		26.5	130.5	0.002	1.92	1.98	12.7	1	6.3	297	0.82	0.36	13.55	0.304	1.89	5.6
W596786		41.2	194.0	0.002	2.92	3.58	13.3	<1	12.2	98.0	0.76	0.45	13.85	0.320	2.48	3.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226286

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596747		80	3.5	13.7	127	153.0	0.007
W596748		80	11.2	12.0	998	13.8	0.210
W596749		88	5.6	13.7	1080	12.1	0.148
W596750		87	4.3	14.0	563	12.7	0.088
W596751		92	4.6	15.6	123	14.4	0.074
W596752		47	4.3	9.4	>10000	21.3	2.82
W596753		96	5.3	14.3	105	13.2	0.043
W596754		91	167.0	15.1	172	12.1	0.565
W596755		88	2.2	15.3	50	12.9	0.035
W596756		90	2.3	15.5	50	12.3	0.029
W596757		89	1.5	15.2	51	13.0	0.030
W596758		89	0.8	15.7	42	12.0	0.013
W596759		47	4.7	9.9	>10000	22.9	2.86
W596760		95	2.8	15.2	92	12.6	0.040
W596761		94	3.1	14.1	82	12.3	0.049
W596762		101	3.2	15.8	84	12.5	0.066
W596763		86	6.6	10.9	110	10.3	0.368
W596764		101	5.4	14.0	105	11.5	0.089
W596765		80	12.8	9.7	861	9.6	0.315
W596766		89	6.3	13.6	147	12.3	0.047
W596767		81	10.6	11.6	539	10.5	0.094
W596768		1	0.1	2.2	4	3.1	0.005
W596769		71	10.6	7.6	677	7.8	0.296
W596770		87	14.6	9.4	1790	10.8	0.279
W596771		91	2.9	13.7	144	12.9	0.075
W596772		68	6.8	8.1	1910	9.5	2.31
W596773		84	3.5	12.9	127	11.9	0.061
W596774		94	3.0	13.9	296	12.0	0.273
W596775		100	3.5	17.8	71	14.2	0.138
W596776		98	3.3	16.6	69	13.1	0.118
W596777		80	2.4	12.0	58	10.2	0.033
W596778		95	1.6	16.6	47	14.1	0.037
W596779		105	2.0	16.6	60	14.4	0.043
W596780		95	2.5	18.2	62	13.3	0.024
W596781		102	1.2	15.4	53	12.1	0.017
W596782		103	1.2	15.5	62	11.4	0.032
W596783		102	1.0	14.8	57	12.5	0.015
W596784		100	4.3	18.1	168	15.3	0.092
W596785		100	4.3	17.0	74	12.6	0.087
W596786		106	15.8	21.0	72	13.9	0.067

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226286

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226288

Project: Klaza

P.O. No.: Batch 48

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226288

Sample Description	Method	WEI-21	Cu-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Cu	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W596787		1.75			4.64	7.49	332	130	1.22	49.9	2.10	1.40	42.6	10.3	17	4.84
W596788		4.97			0.68	8.02	46.0	890	1.30	7.10	2.68	0.36	49.9	8.1	14	4.25
W596789		4.60			0.22	7.97	29.1	780	1.35	1.62	3.23	0.22	47.4	6.8	17	5.13
W596790		5.08			0.21	7.74	10.9	1190	1.39	4.17	3.23	0.26	47.9	9.3	16	4.64
W596791		5.14			0.73	7.72	92.7	1070	1.37	7.52	3.02	0.75	46.8	7.4	16	6.95
W596792		5.44			0.29	7.69	16.2	910	1.33	5.46	3.12	0.28	43.7	7.2	15	4.54
W596793		0.26		1.460	91.2	4.51	3920	80	0.88	48.6	1.49	191.5	26.9	54.6	35	7.78
W596794		4.84			0.53	7.69	17.0	1430	1.21	12.30	2.49	0.41	45.7	6.7	15	6.52
W596795		5.41			0.14	7.66	13.9	1360	1.22	1.05	3.27	0.31	45.8	9.5	16	5.34
W596796		5.32			0.11	7.90	13.7	1370	1.32	1.05	3.20	0.17	48.5	8.5	17	5.74
W596797		5.38			2.64	7.34	160.0	350	1.21	32.1	2.57	3.30	58.5	13.0	15	6.00
W596798		4.92			0.33	7.98	72.5	1330	1.37	2.67	3.19	0.46	49.6	7.5	19	6.16
W596799		0.26			10.40	6.74	2000	240	1.43	5.56	1.78	37.5	48.6	11.2	30	15.80
W596800		4.23			5.19	7.57	293	920	1.36	28.2	2.97	2.42	46.2	7.5	13	8.32
W596801		4.58			0.85	7.69	20.8	590	1.34	4.33	3.10	0.98	49.5	6.1	20	6.15
W596802		4.53			0.31	7.66	30.5	1070	1.31	3.98	3.19	0.19	41.1	9.1	15	5.12
W596803		4.57			0.54	7.55	59.8	1180	1.26	4.76	3.29	0.80	48.9	8.5	17	5.15
W596804		4.51			0.35	7.65	13.1	1350	1.27	2.60	3.21	0.43	46.2	7.4	16	6.32
W596805		5.46			1.88	7.58	50.4	990	1.32	5.56	2.99	0.65	44.1	6.7	15	4.79
W596806		5.83			0.28	7.71	14.8	1070	1.34	3.01	3.19	0.24	48.5	9.1	19	5.05
W596807		5.45			0.49	7.47	24.9	910	1.22	3.89	2.59	0.37	48.8	6.2	14	4.51
W596808		5.94			0.48	7.66	17.4	1000	1.34	1.57	3.38	0.56	45.9	6.8	14	5.21
W596809		5.93			0.19	7.66	10.7	1150	1.32	0.91	3.13	0.21	47.0	6.4	15	5.12
W596810		1.85			0.21	7.85	12.2	1180	1.26	1.04	3.32	0.25	47.3	6.9	14	5.27
W596811		6.32			0.20	7.69	15.2	1160	1.31	0.78	2.98	0.24	45.3	6.9	15	5.81
W596812		5.90			0.62	7.26	51.3	850	1.18	1.84	2.93	0.44	44.3	8.3	14	6.37
W596813		5.43			0.41	7.53	40.1	660	1.34	1.64	3.71	0.67	61.6	10.3	16	7.68
W596814		1.88			2.63	6.77	1085	580	1.18	4.87	4.36	8.54	57.0	13.9	13	10.75
W596815		5.25			0.62	7.70	47.3	1060	1.43	1.28	3.14	0.97	49.4	7.9	17	13.15
W596816		5.28			0.18	7.98	22.1	1170	1.47	0.60	3.38	0.15	40.9	9.4	22	6.60
W596817		3.93			0.17	7.99	10.8	1020	1.41	0.61	3.23	0.22	47.6	5.7	16	5.42
W596818		6.19			1.63	7.63	68.5	450	1.29	7.10	3.72	1.70	54.2	4.5	15	8.70
W596819		4.31			0.67	7.04	59.0	480	1.28	1.54	4.63	1.01	54.6	3.2	12	11.75
W596820		<0.02			0.78	7.22	59.3	480	1.32	1.69	4.72	1.18	55.2	3.2	12	11.85
W596821		2.82			0.59	7.17	72.3	980	1.26	1.24	3.60	1.17	42.1	6.8	14	10.20
W596822		2.19			22.8	5.01	3940	100	0.98	31.8	3.85	55.0	32.3	5.2	8	9.44
W596823		1.89			0.72	7.40	279	840	1.37	1.49	4.16	1.48	41.7	7.1	12	19.30
W596824		2.28	1.315		57.7	6.44	3150	90	1.11	42.0	1.96	71.3	54.4	10.0	12	10.00
W596825		5.04			0.04	0.14	1.8	20	0.08	0.06	33.9	0.05	1.17	0.6	2	0.05
W596826		6.22			5.49	7.56	222	1020	1.24	4.38	3.21	3.08	44.8	9.8	15	10.25

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Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226288

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W596787		589	7.15	15.85	0.11	0.5	0.267	2.56	23.1	9.3	1.06	338	0.84	1.05	6.3	5.5
W596788		100.5	4.70	16.90	0.14	0.6	0.107	2.18	24.2	10.8	1.46	405	1.40	2.15	8.0	4.5
W596789		29.8	3.56	16.10	0.13	0.6	0.084	1.41	24.9	11.8	1.16	427	0.80	2.54	7.5	4.9
W596790		30.2	3.78	16.25	0.13	0.6	0.087	1.97	24.0	11.1	1.23	470	1.64	2.32	7.3	5.4
W596791		122.5	4.23	16.30	0.14	0.5	0.092	2.26	24.2	11.2	1.12	644	0.94	1.45	7.3	4.9
W596792		51.1	3.81	16.05	0.10	0.5	0.086	1.68	22.7	10.0	1.14	432	2.34	2.25	7.4	4.6
W596793		1220	11.20	9.66	0.10	0.7	3.78	1.90	13.4	25.2	0.51	1880	14.70	0.15	3.7	12.9
W596794		61.5	4.01	15.35	0.11	0.6	0.090	2.21	24.3	13.3	1.13	414	0.55	1.90	7.3	4.6
W596795		14.3	3.77	15.40	0.13	0.6	0.102	2.14	24.0	9.9	1.13	477	0.38	2.11	7.3	4.7
W596796		10.2	3.86	15.70	0.13	0.5	0.107	2.06	26.0	12.1	1.24	532	0.41	2.20	7.8	5.0
W596797		299	5.60	16.35	0.15	0.5	0.369	2.33	30.7	11.2	1.27	670	2.51	0.89	7.7	5.9
W596798		46.9	4.06	16.10	0.13	0.5	0.121	2.14	26.4	9.3	1.16	448	2.93	1.89	7.6	4.7
W596799		196.0	6.03	15.10	0.13	1.1	0.683	2.91	26.4	42.5	0.76	2080	9.28	0.07	6.2	17.4
W596800		297	4.65	15.45	0.13	0.5	0.252	2.46	24.8	14.6	0.91	1120	6.69	0.80	7.1	4.5
W596801		157.0	3.80	15.65	0.10	0.6	0.195	1.59	25.2	9.8	1.15	585	0.43	1.95	7.6	4.6
W596802		53.5	4.43	15.80	0.10	0.6	0.110	2.07	21.3	9.2	1.21	566	1.14	1.70	8.2	4.5
W596803		43.3	4.49	16.30	0.12	0.5	0.141	2.12	27.3	11.8	1.21	612	0.62	1.63	7.7	5.3
W596804		28.4	3.84	15.80	0.14	0.5	0.108	2.00	24.3	13.7	1.18	520	0.53	2.10	7.9	4.9
W596805		691	4.35	16.55	0.12	0.5	0.319	2.10	23.9	11.0	1.13	595	0.87	1.32	7.7	4.7
W596806		38.0	3.79	16.15	0.13	0.5	0.196	1.80	26.3	11.1	1.18	462	0.34	2.18	8.0	5.4
W596807		87.2	4.35	15.70	0.14	0.6	0.165	2.06	25.1	13.2	1.25	522	0.34	1.10	7.7	4.4
W596808		25.3	3.38	15.90	0.12	0.6	0.173	1.88	23.7	10.6	1.20	529	0.25	2.19	8.1	4.3
W596809		16.1	3.40	15.00	0.12	0.5	0.121	1.91	25.2	10.2	1.16	496	0.32	2.22	7.4	4.8
W596810		15.5	3.43	15.85	0.12	0.5	0.126	1.94	24.8	10.7	1.22	513	0.30	2.30	7.8	4.6
W596811		15.7	3.57	15.90	0.12	0.5	0.179	1.95	24.4	13.3	1.20	547	0.35	2.32	7.8	4.9
W596812		79.1	3.66	15.30	0.12	0.5	0.218	2.23	24.0	11.1	1.19	577	0.46	1.33	7.0	4.7
W596813		55.5	3.90	15.75	0.14	0.6	0.267	1.82	32.9	11.0	1.26	648	0.61	1.48	7.3	5.5
W596814		54.5	4.58	15.70	0.15	0.4	0.356	2.85	33.0	9.7	0.82	2240	0.64	0.04	7.2	4.3
W596815		54.9	3.72	16.05	0.13	0.6	0.178	2.72	26.7	15.2	1.14	1140	0.44	0.51	8.3	4.5
W596816		24.2	4.08	15.85	0.12	0.7	0.139	2.29	21.1	13.4	1.28	655	0.34	1.62	8.4	5.4
W596817		23.7	3.66	15.95	0.10	0.6	0.109	2.05	25.4	10.0	1.12	539	0.36	2.03	8.2	4.7
W596818		111.5	3.91	16.15	0.12	0.5	0.182	2.45	27.6	14.6	1.23	837	0.39	0.65	7.3	4.1
W596819		91.5	2.67	14.35	0.14	0.6	0.325	2.14	26.3	12.9	0.96	968	0.38	0.79	6.9	4.7
W596820		94.8	2.64	14.75	0.14	0.6	0.347	2.19	26.3	12.8	0.99	980	0.36	0.80	6.9	4.6
W596821		43.7	3.13	15.00	0.12	0.5	0.186	2.35	21.1	18.9	0.90	919	0.31	0.94	8.0	4.3
W596822		1030	6.89	11.20	0.11	0.4	0.821	2.22	16.0	11.2	1.52	3740	4.45	0.03	4.8	2.6
W596823		151.0	3.10	15.75	0.14	0.6	0.211	3.34	20.6	8.2	1.46	2940	1.00	0.05	8.4	5.1
W596824		>10000	9.47	14.50	0.16	0.4	9.29	2.91	29.5	8.4	0.92	2450	1.07	0.06	6.0	5.3
W596825		10.7	0.16	0.43	0.05	0.1	0.010	0.05	1.1	0.9	1.40	102	0.06	0.06	0.2	0.6
W596826		1070	4.47	15.10	0.09	0.5	0.875	2.69	23.0	13.4	1.12	1060	4.84	1.34	7.4	9.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226288

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W596787		580	133.0	116.5	<0.002	4.94	4.89	11.3	1	7.4	220	0.51	0.56	7.89	0.290	1.36
W596788		760	24.0	98.9	<0.002	1.52	2.05	13.5	<1	5.2	301	0.69	0.17	11.25	0.326	1.43
W596789		600	17.7	58.6	<0.002	0.58	2.20	12.0	<1	3.3	398	0.64	<0.05	10.85	0.310	0.87
W596790		590	16.6	69.2	0.002	0.63	1.60	11.8	<1	2.7	413	0.59	0.06	9.64	0.311	1.02
W596791		570	33.1	96.6	<0.002	1.11	2.76	11.6	<1	3.5	283	0.61	0.13	10.55	0.302	1.55
W596792		560	19.5	67.0	<0.002	0.85	1.47	11.4	<1	3.3	362	0.61	0.07	10.55	0.309	1.08
W596793		360	8880	98.9	0.002	>10.0	233	5.7	2	9.1	81.0	0.29	1.81	5.85	0.141	1.62
W596794		550	32.0	81.5	<0.002	0.68	4.32	11.2	<1	3.2	354	0.59	0.07	10.45	0.299	1.09
W596795		570	18.6	77.8	<0.002	0.70	1.65	11.5	<1	2.6	402	0.58	0.06	9.85	0.310	1.05
W596796		580	19.3	69.9	<0.002	0.60	1.54	11.8	<1	2.5	468	0.60	0.06	11.10	0.310	0.94
W596797		580	99.4	113.0	<0.002	3.52	4.55	13.0	6	7.5	193.0	0.57	2.83	9.81	0.290	1.81
W596798		580	31.5	89.0	<0.002	0.93	2.21	11.8	<1	3.9	368	0.60	0.10	10.55	0.306	1.48
W596799		530	1790	165.5	<0.002	3.50	48.9	9.0	<1	6.1	81.0	0.49	0.25	10.75	0.210	2.75
W596800		550	295	115.5	0.003	1.71	42.8	11.3	<1	5.4	206	0.56	0.14	10.35	0.290	2.06
W596801		570	36.3	77.6	<0.002	0.99	1.49	11.8	<1	4.7	312	0.62	0.09	11.05	0.297	1.36
W596802		510	19.7	75.2	<0.002	1.29	1.76	12.4	1	3.7	320	0.70	0.11	9.01	0.317	1.34
W596803		560	34.5	81.2	<0.002	1.40	2.08	11.9	<1	4.1	330	0.62	0.10	9.64	0.304	1.25
W596804		560	22.5	62.3	<0.002	0.84	1.74	11.4	<1	2.8	414	0.65	0.09	10.55	0.308	1.08
W596805		560	21.4	81.2	<0.002	1.29	2.48	10.5	1	5.3	264	0.61	1.00	9.59	0.296	1.56
W596806		580	16.9	70.7	<0.002	0.79	1.97	12.1	<1	4.1	417	0.59	0.09	10.15	0.300	1.17
W596807		560	25.0	82.5	<0.002	1.13	2.72	11.1	<1	6.3	243	0.65	0.08	11.05	0.289	1.60
W596808		560	27.4	64.4	<0.002	0.54	1.64	11.0	<1	3.8	391	0.67	<0.05	10.15	0.305	1.20
W596809		560	20.0	61.6	<0.002	0.33	1.29	10.4	<1	2.6	446	0.61	<0.05	10.95	0.291	1.00
W596810		590	20.9	61.0	<0.002	0.34	1.38	11.2	1	3.0	466	0.66	<0.05	11.00	0.310	1.03
W596811		560	18.6	73.3	<0.002	0.44	1.65	10.8	<1	4.2	441	0.65	<0.05	10.40	0.295	1.32
W596812		560	25.7	123.5	<0.002	1.16	2.12	11.1	<1	4.2	246	0.56	0.24	8.70	0.283	1.73
W596813		590	22.2	99.9	<0.002	1.31	3.36	11.5	<1	4.5	274	0.55	0.16	9.51	0.293	1.94
W596814		460	319	163.5	0.002	2.79	10.70	9.6	<1	7.8	92.6	0.56	0.36	8.61	0.250	3.23
W596815		570	59.6	132.0	<0.002	0.85	4.46	11.7	<1	4.3	178.5	0.67	0.06	10.15	0.299	2.37
W596816		580	13.7	80.7	<0.002	0.61	2.42	12.4	<1	3.2	331	0.72	0.06	9.75	0.328	1.37
W596817		580	13.8	80.5	<0.002	0.35	1.65	10.9	<1	3.7	357	0.71	<0.05	11.30	0.295	1.30
W596818		690	64.9	151.0	<0.002	1.20	5.47	11.4	1	7.0	170.5	0.60	0.08	10.25	0.267	2.25
W596819		490	23.2	123.5	<0.002	0.41	4.70	9.9	<1	6.4	217	0.57	0.05	9.82	0.244	2.11
W596820		500	23.0	123.0	<0.002	0.44	5.03	9.9	1	6.5	218	0.55	<0.05	9.78	0.249	2.22
W596821		550	56.2	95.8	<0.002	0.83	6.00	10.6	<1	4.6	301	0.65	0.05	8.70	0.297	1.97
W596822		440	4160	140.5	<0.002	6.92	218	7.3	1	8.6	96.6	0.42	1.85	6.93	0.183	2.38
W596823		650	87.9	160.5	<0.002	1.41	42.5	12.7	<1	6.6	140.5	0.64	<0.05	9.10	0.340	4.39
W596824		480	4430	152.5	<0.002	8.41	53.5	9.8	2	22.1	71.8	0.48	0.61	8.37	0.239	3.44
W596825		50	2.8	1.5	<0.002	0.01	0.15	0.2	<1	<0.2	80.5	<0.05	<0.05	0.18	0.005	0.02
W596826		600	144.0	114.5	0.003	1.82	5.76	10.4	1	6.8	315	0.62	0.89	10.45	0.295	2.25

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226288

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W596787		2.3	96	7.1	14.8	117	10.7	0.715
W596788		2.7	119	4.2	18.7	77	13.1	0.050
W596789		3.1	105	1.0	15.3	58	12.5	0.019
W596790		2.6	103	1.1	16.3	56	11.6	0.022
W596791		3.4	101	3.6	15.9	79	11.6	0.040
W596792		3.2	99	1.8	14.9	58	11.4	0.014
W596793		3.7	47	4.1	8.0	>10000	18.3	2.95
W596794		2.4	96	6.1	13.9	66	11.9	0.021
W596795		2.5	101	1.7	15.5	60	11.3	0.012
W596796		2.7	98	1.1	16.9	55	11.6	0.016
W596797		3.5	104	5.6	15.1	279	10.6	0.067
W596798		3.5	97	1.9	15.6	71	11.5	0.041
W596799		4.0	65	6.1	11.2	2920	30.3	0.670
W596800		6.7	94	6.8	15.1	225	10.7	0.480
W596801		3.4	96	7.6	16.5	111	11.8	0.023
W596802		2.9	106	3.0	16.4	57	12.8	0.021
W596803		2.8	98	3.5	17.4	99	11.5	0.028
W596804		2.9	95	1.8	15.7	72	12.2	0.017
W596805		3.4	95	4.9	14.6	89	10.3	0.053
W596806		3.1	97	1.9	17.4	58	12.0	0.015
W596807		3.2	93	4.8	14.4	71	12.1	0.023
W596808		3.2	96	1.4	16.7	84	11.3	0.027
W596809		2.9	93	0.8	15.8	58	10.5	0.020
W596810		3.1	100	0.8	16.8	62	10.6	0.021
W596811		2.9	96	1.1	16.8	65	11.2	0.064
W596812		3.6	94	2.8	14.5	76	10.3	0.095
W596813		6.7	102	1.8	17.8	97	11.7	0.034
W596814		3.4	94	7.9	17.0	653	10.1	0.228
W596815		4.2	98	5.2	15.2	117	12.6	0.158
W596816		2.6	109	1.8	15.5	60	13.1	0.030
W596817		3.4	93	1.0	16.2	63	11.8	0.027
W596818		3.5	87	2.9	16.9	173	12.0	0.196
W596819		3.9	73	2.6	18.4	102	11.3	0.140
W596820		3.9	75	2.7	18.1	110	11.6	0.157
W596821		3.5	94	4.0	14.0	142	10.5	0.043
W596822		3.2	61	10.2	7.5	4310	8.0	1.750
W596823		3.2	111	26.7	15.4	159	11.8	0.046
W596824		4.3	81	18.5	9.5	5370	8.9	6.11
W596825		0.2	1	0.3	1.9	9	1.8	0.007
W596826		3.8	97	68.2	14.3	297	10.6	0.773

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226288

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	Cu-OG62	ME-MS61	ME-OG62
	Zn-OG62			

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Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE WH20226294

Project: Klaza

P.O. No.: Batch 49

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226294

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596827		6.26		0.49	7.36	182.0	1150	1.44	1.79	3.25	1.39	42.5	8.3	16	9.32	93.9
W596828		6.29		2.92	7.30	396	940	1.39	3.00	3.44	1.79	42.8	13.1	16	10.95	862
W596829		5.72		2.86	7.07	207	870	1.36	7.03	3.23	0.77	37.6	9.1	15	8.30	530
W596830		6.22		0.44	7.16	16.0	820	1.42	1.65	3.53	1.65	40.8	10.1	15	5.42	35.9
W596831		6.12		0.32	7.06	13.1	1170	1.30	1.07	3.19	1.41	37.9	10.1	18	4.83	29.8
W596832		5.92		0.56	7.41	43.7	1170	1.32	1.09	3.35	0.33	41.7	10.3	16	6.91	130.5
W596833		0.26		9.34	6.59	1915	760	1.28	4.91	1.70	31.1	41.8	9.7	28	15.40	195.5
W596834		4.36		0.14	7.36	15.8	1270	1.34	0.77	3.40	0.24	39.4	9.7	17	7.74	14.5
W596835		3.11		0.69	7.38	39.6	1140	1.38	3.22	3.30	1.05	43.1	7.1	19	12.65	120.5
W596836		1.54		5.09	5.27	2960	190	1.15	2.13	6.29	13.35	35.4	7.2	9	12.35	68.1
W596837		4.38		0.73	7.04	389	940	1.49	2.97	3.98	1.91	43.3	8.4	14	14.95	28.9
W596838		4.73		11.95	7.04	285	980	1.45	18.10	2.70	6.03	42.4	11.1	14	10.95	122.0
W596839		0.26	1.420	94.2	4.68	4070	620	1.09	56.4	1.56	199.5	35.3	62.7	36	10.20	1310
W596840		4.77		0.47	7.55	15.1	1240	1.36	2.59	3.45	0.42	39.4	10.8	17	4.39	71.9
W596841		4.62		0.13	7.25	11.0	1190	1.33	0.60	3.41	0.30	40.2	10.0	17	4.21	9.4
W596842		2.08		0.10	7.21	9.2	1180	1.31	0.51	3.44	0.19	37.6	9.2	15	4.19	9.9
W596843		4.74		0.23	7.06	12.5	1110	1.30	1.41	3.07	0.80	37.6	8.2	16	4.79	29.0
W596844		4.66		0.50	7.41	19.5	1060	1.39	6.09	3.43	0.38	40.7	9.0	21	7.67	20.1
W596845		4.58		0.31	7.90	23.7	1000	1.41	2.13	3.15	0.82	45.5	9.4	16	9.77	28.7
W596846		5.24		0.02	0.16	0.7	30	0.16	0.06	33.1	<0.02	1.05	0.6	1	0.06	2.0
W596847		4.69		0.34	7.61	10.4	1190	1.28	4.01	3.53	0.39	40.1	9.7	17	7.64	25.8
W596848		4.53		0.17	7.62	11.7	1170	1.37	0.89	3.57	0.49	41.1	7.1	16	7.47	11.5
W596849		5.06		0.29	7.39	26.3	1090	1.38	1.83	3.58	0.89	36.3	8.8	16	5.94	19.6
W596850		6.88		0.10	7.73	14.3	1150	1.36	0.69	3.71	0.14	40.9	9.3	16	6.50	7.5
W596851		5.61		0.08	7.49	11.7	1240	1.36	0.46	3.56	0.13	38.3	9.9	20	6.19	7.0
W596852		3.15		0.66	7.86	37.8	1000	1.53	2.50	3.27	0.89	46.9	6.5	17	9.37	40.0
W596853		2.09		7.95	6.53	457	40	1.02	42.7	1.18	1.55	31.0	11.4	15	4.68	553
W596854		3.75		0.53	7.42	57.2	1060	1.49	1.84	3.10	0.52	39.6	7.9	15	8.64	48.9
W596855		4.43		0.52	7.26	19.4	1220	1.38	1.88	3.16	1.52	37.1	9.0	17	6.26	24.3
W596856		5.99		0.63	8.10	19.1	700	1.70	1.02	1.71	1.04	48.4	16.7	17	10.95	203
W596857		6.91		0.46	8.26	8.5	1560	1.90	0.71	1.30	0.80	40.3	14.9	19	11.70	267
W596858		1.96		0.79	7.78	30.7	310	1.88	1.19	2.27	10.60	44.5	23.5	16	24.3	109.5
W596859		7.12		0.38	7.73	10.2	1230	1.75	0.53	3.26	1.36	48.3	14.3	16	10.95	152.0
W596860		6.98		0.36	7.89	7.1	800	1.76	0.56	3.03	0.73	40.4	14.2	14	8.78	180.0
W596861		6.63		0.34	7.96	6.1	2320	1.64	0.45	3.18	0.72	43.7	14.1	17	8.33	201
W596862		5.76		0.38	7.72	10.3	320	1.65	0.77	3.51	0.39	33.3	19.4	11	18.80	119.0
W596863		<0.02		0.34	7.81	9.9	320	1.73	0.75	3.47	0.35	37.2	19.2	12	19.30	115.5
W596864		3.19		0.99	4.15	115.0	20	1.02	2.29	0.83	5.17	13.25	59.0	9	6.74	95.0
W596865		5.39		0.54	7.67	32.7	200	1.54	0.97	2.52	0.57	45.1	23.6	22	13.65	229
W596866		2.41		0.92	7.04	83.4	50	1.58	3.12	2.57	0.50	38.7	26.2	26	10.00	188.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226294

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596827		3.68	17.25	0.12	0.6	0.311	2.41	21.5	16.2	1.06	753	0.63	1.81	8.5	5.4	570
W596828		4.11	16.85	0.13	0.5	0.733	2.13	22.2	14.5	1.10	701	15.55	1.74	7.9	16.6	570
W596829		3.92	16.90	0.10	0.5	0.554	2.07	18.6	111.5	1.06	737	0.61	1.28	7.9	5.3	570
W596830		3.15	17.20	0.16	0.6	0.319	1.47	20.6	15.7	1.13	568	0.78	2.36	8.5	5.2	580
W596831		3.55	16.90	0.14	0.5	0.171	1.97	18.5	13.6	1.10	582	0.51	2.15	8.1	5.5	560
W596832		3.63	17.50	0.17	0.5	0.298	2.04	21.8	30.2	1.12	581	0.48	2.08	8.4	5.6	590
W596833		5.86	13.35	0.08	0.9	0.589	2.82	22.8	35.0	0.73	1980	7.88	0.07	5.7	16.0	510
W596834		3.57	16.85	0.15	0.6	0.159	2.07	19.9	16.9	1.16	614	0.44	2.33	8.7	6.1	580
W596835		3.86	16.75	0.13	0.5	0.372	2.58	22.2	42.1	1.01	763	0.32	0.90	7.8	5.4	580
W596836		5.60	12.25	0.09	0.4	0.317	2.28	19.7	17.8	1.75	3800	65.6	0.04	5.8	4.5	390
W596837		3.32	16.00	0.14	0.5	0.282	2.80	23.8	19.2	1.22	1960	8.54	0.37	7.6	4.8	520
W596838		4.15	17.35	0.13	0.5	0.415	2.86	21.6	13.4	0.86	1010	0.61	0.88	7.9	4.8	540
W596839		11.60	12.60	0.07	0.8	4.82	1.97	17.3	32.4	0.54	1900	18.00	0.16	4.6	16.1	380
W596840		3.72	17.45	0.14	0.6	0.278	2.12	20.4	12.9	1.31	665	0.40	2.19	8.3	5.5	610
W596841		3.54	16.70	0.14	0.5	0.170	1.92	20.5	8.7	1.16	611	0.68	2.13	8.1	5.6	570
W596842		3.29	16.60	0.15	0.5	0.164	1.89	19.2	8.8	1.14	583	0.56	2.17	8.2	5.0	560
W596843		3.65	16.30	0.13	0.5	0.203	2.06	19.7	8.6	1.11	586	0.55	1.95	7.7	5.1	550
W596844		3.57	17.60	0.14	0.5	0.189	1.98	20.6	14.0	1.26	601	0.62	2.15	8.7	6.0	600
W596845		3.56	17.95	0.13	0.5	0.268	2.03	24.1	16.7	0.95	506	0.69	1.73	8.8	5.4	610
W596846		0.12	0.68	0.14	0.1	0.011	0.03	1.2	1.5	1.40	86	0.07	0.08	0.3	0.5	70
W596847		3.62	16.75	0.23	0.5	0.147	2.02	21.2	9.8	1.15	579	0.92	2.24	8.1	5.2	580
W596848		3.55	17.05	0.17	0.5	0.152	1.99	20.9	10.0	1.22	624	0.52	2.30	8.3	5.0	600
W596849		3.68	16.65	0.07	0.6	0.251	1.89	17.9	12.5	1.25	651	1.03	2.10	8.3	6.3	600
W596850		3.47	16.50	0.10	0.5	0.145	1.84	20.3	12.1	1.30	624	0.63	2.29	8.3	5.2	610
W596851		3.65	16.65	0.14	0.6	0.106	1.95	19.3	11.9	1.27	660	0.48	2.28	8.7	6.5	610
W596852		3.73	18.00	0.14	0.6	0.213	2.27	24.4	11.3	1.24	964	0.49	1.65	8.8	5.4	600
W596853		10.30	17.60	0.09	0.4	0.237	3.24	14.0	6.4	0.65	918	44.9	0.05	5.3	10.9	1170
W596854		3.49	17.30	0.08	0.6	0.200	2.37	20.4	11.3	1.04	747	2.23	1.65	8.5	5.6	580
W596855		3.84	16.50	0.08	0.6	0.266	2.34	19.2	11.9	1.07	551	0.67	1.69	8.3	5.4	560
W596856		5.26	18.75	0.11	0.7	0.129	2.25	24.1	27.7	1.62	548	2.10	1.21	7.1	9.1	1240
W596857		4.47	18.15	0.14	0.7	0.079	1.90	20.0	33.5	1.64	205	6.22	1.21	6.1	10.0	1230
W596858		4.33	17.45	0.12	0.7	0.126	2.92	22.0	22.0	0.90	854	7.15	0.29	5.9	9.5	1250
W596859		4.15	18.25	0.14	0.7	0.115	1.95	24.8	29.6	1.52	420	1.57	1.34	7.2	8.3	1330
W596860		4.45	19.20	0.19	0.7	0.077	2.01	20.7	24.6	1.83	252	1.41	1.71	6.4	7.8	1370
W596861		4.69	18.20	0.17	0.6	0.075	1.96	22.4	22.8	1.92	288	1.53	1.65	5.8	8.5	1440
W596862		4.50	18.70	0.15	0.6	0.059	2.59	16.4	24.1	1.48	404	2.80	1.41	4.9	7.0	1530
W596863		4.51	18.05	0.17	0.6	0.057	2.49	19.0	23.1	1.48	386	2.84	1.38	4.8	6.9	1470
W596864		18.20	11.05	0.14	0.3	0.145	2.06	6.0	6.1	0.52	879	1.83	0.12	1.9	6.1	980
W596865		5.63	17.75	0.09	0.6	0.084	2.97	22.1	31.8	2.10	462	6.94	0.86	4.5	11.4	1680
W596866		7.93	19.25	0.06	0.6	0.106	2.59	17.5	29.4	2.28	281	2.90	1.04	4.4	15.1	1680

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 22-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20226294

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596827		36.7	89.0	<0.002	0.68	2.80	11.8	<1	4.4	365	0.73	0.06	9.37	0.304	1.79	2.7
W596828		55.7	80.7	0.004	1.37	8.07	12.2	1	4.3	351	0.58	0.28	9.34	0.298	1.59	3.6
W596829		26.0	78.0	<0.002	1.02	18.85	11.6	1	5.2	293	0.61	0.13	8.55	0.299	1.54	2.5
W596830		49.8	48.8	<0.002	0.51	1.31	12.2	1	3.7	394	0.64	<0.05	8.75	0.306	0.97	2.7
W596831		25.1	57.3	<0.002	0.42	1.04	11.5	1	2.6	394	0.61	<0.05	8.24	0.296	0.95	2.4
W596832		15.0	72.3	<0.002	0.76	2.49	12.9	1	3.4	379	0.66	0.08	9.17	0.307	1.14	2.8
W596833		1765	157.5	<0.002	3.43	46.8	8.1	<1	5.4	75.1	0.46	0.23	9.63	0.204	2.22	3.9
W596834		15.0	71.0	<0.002	0.42	1.31	12.2	1	2.3	397	0.69	<0.05	9.40	0.319	1.11	2.7
W596835		95.2	106.0	<0.002	1.04	12.60	12.2	1	6.5	242	0.67	0.09	10.15	0.298	2.21	3.4
W596836		2370	127.5	0.005	4.16	82.4	8.3	1	10.8	128.5	0.48	0.25	7.86	0.201	2.86	6.6
W596837		141.0	145.5	<0.002	1.03	17.40	11.4	<1	4.4	173.5	0.60	<0.05	9.86	0.275	3.21	4.2
W596838		1785	137.0	<0.002	2.30	12.65	11.6	2	7.5	204	0.62	0.91	9.68	0.276	2.53	3.0
W596839		9290	121.0	<0.002	>10.0	231	7.3	2	11.7	97.0	0.34	1.99	7.89	0.140	1.99	4.6
W596840		39.9	65.7	<0.002	0.59	1.38	13.1	1	2.8	428	0.63	0.05	9.01	0.326	1.14	2.3
W596841		19.5	55.2	<0.002	0.42	1.01	12.1	1	2.3	412	0.65	<0.05	9.22	0.306	0.89	2.4
W596842		15.2	51.1	<0.002	0.37	0.98	11.4	<1	2.4	423	0.64	<0.05	8.24	0.306	0.84	2.3
W596843		21.2	66.3	<0.002	0.60	0.95	11.3	1	3.6	365	0.62	<0.05	8.90	0.290	1.10	2.6
W596844		34.2	61.0	<0.002	0.56	1.03	13.5	1	3.5	404	0.65	0.05	9.32	0.316	1.04	3.2
W596845		69.5	75.9	<0.002	0.89	4.01	12.3	1	4.1	344	0.69	<0.05	10.50	0.318	1.25	3.5
W596846		1.1	1.1	<0.002	<0.01	0.11	0.2	1	0.2	82.6	<0.05	<0.05	0.12	0.005	0.04	0.2
W596847		20.9	62.0	<0.002	0.34	1.07	11.4	<1	2.4	413	0.61	<0.05	9.46	0.309	0.91	3.1
W596848		22.8	58.9	<0.002	0.43	1.02	11.6	<1	3.0	420	0.67	0.05	9.76	0.324	0.92	3.0
W596849		30.9	62.9	<0.002	0.69	1.45	12.4	<1	3.4	386	0.66	<0.05	9.27	0.318	1.05	3.4
W596850		13.2	59.6	<0.002	0.52	0.98	12.7	<1	2.4	430	0.64	<0.05	10.05	0.329	0.85	3.2
W596851		12.1	60.7	<0.002	0.37	0.96	12.4	<1	2.1	423	0.69	<0.05	9.35	0.328	0.90	3.1
W596852		69.2	97.9	<0.002	1.25	2.37	13.2	<1	4.8	319	0.78	<0.05	11.30	0.320	1.90	3.9
W596853		196.5	186.5	0.009	10.00	8.62	10.8	11	16.2	35.5	0.47	9.68	10.90	0.183	2.30	3.4
W596854		46.6	95.9	<0.002	0.79	2.11	12.5	<1	4.1	336	0.64	0.12	10.45	0.299	1.64	3.2
W596855		46.7	83.9	<0.002	0.82	1.27	12.0	<1	4.3	340	0.63	<0.05	9.75	0.299	1.52	3.2
W596856		30.7	92.5	<0.002	2.30	2.26	17.0	3	4.8	376	0.49	0.23	8.82	0.358	1.91	2.3
W596857		34.3	84.1	0.004	1.70	2.54	19.8	2	4.6	291	0.42	0.08	11.05	0.326	1.74	3.6
W596858		182.5	131.0	0.002	3.31	10.55	16.9	3	9.4	125.5	0.37	0.19	9.85	0.294	2.73	5.2
W596859		41.7	77.3	<0.002	1.79	3.29	17.0	2	5.1	453	0.47	0.07	9.95	0.333	1.74	3.0
W596860		21.6	73.2	<0.002	1.91	1.90	17.0	2	4.8	695	0.46	0.07	8.01	0.351	1.81	2.4
W596861		16.9	69.3	<0.002	1.31	1.75	18.3	2	4.4	617	0.41	0.07	8.62	0.381	1.77	2.4
W596862		27.9	100.5	<0.002	3.27	3.64	17.1	3	6.8	456	0.32	0.17	7.62	0.330	2.48	3.0
W596863		27.9	111.5	<0.002	3.16	3.55	17.2	3	6.6	455	0.33	0.13	8.32	0.329	2.29	2.8
W596864		154.5	120.5	<0.002	>10.0	4.57	10.0	27	9.8	52.1	0.13	0.62	4.58	0.140	1.86	2.5
W596865		51.6	113.5	<0.002	3.51	3.91	21.6	3	7.3	307	0.31	0.13	8.44	0.350	2.45	2.6
W596866		44.3	87.8	<0.002	6.30	2.82	22.5	2	7.7	343	0.31	0.49	7.41	0.343	2.26	3.8

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Finalized Date: 22-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20226294

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596827		96	2.1	14.1	136	11.8	0.027
W596828		100	1.8	14.0	147	10.1	0.211
W596829		95	4.1	13.9	93	10.4	0.216
W596830		96	0.7	15.6	136	11.3	0.011
W596831		93	0.8	14.7	118	10.8	0.019
W596832		99	1.7	15.8	61	10.2	0.081
W596833		62	5.1	10.9	2840	26.3	0.645
W596834		98	0.8	16.2	58	11.5	0.033
W596835		96	2.9	13.4	110	10.5	0.055
W596836		71	5.5	13.9	1010	7.8	0.535
W596837		88	6.6	14.1	173	9.7	0.057
W596838		88	4.1	13.1	445	11.1	0.122
W596839		49	4.5	9.8	>10000	21.8	2.92
W596840		106	1.0	16.5	71	11.3	0.035
W596841		97	0.6	15.5	56	10.2	0.016
W596842		94	0.6	14.4	50	10.4	0.012
W596843		93	1.2	14.5	93	9.8	0.007
W596844		104	1.4	16.5	67	10.7	0.009
W596845		100	1.8	16.8	108	11.1	0.022
W596846		1	0.1	2.2	4	2.5	0.008
W596847		99	0.7	15.6	65	11.1	0.011
W596848		101	0.7	15.9	75	10.1	0.014
W596849		100	0.7	14.7	103	10.6	0.014
W596850		103	0.5	15.5	51	10.1	0.008
W596851		103	0.5	14.7	51	11.3	0.007
W596852		100	1.3	15.5	117	11.3	0.015
W596853		83	12.7	7.8	129	9.0	0.928
W596854		95	1.9	13.8	85	11.1	0.029
W596855		95	1.0	13.7	168	11.1	0.015
W596856		141	4.8	16.7	162	11.9	0.082
W596857		142	5.6	17.8	152	13.0	0.109
W596858		134	17.1	18.8	840	12.7	0.088
W596859		138	8.1	17.3	137	12.5	0.124
W596860		149	6.5	16.8	90	12.2	0.221
W596861		157	4.6	16.4	92	12.2	0.199
W596862		157	14.4	14.2	87	11.2	0.101
W596863		154	14.3	15.4	84	11.2	0.094
W596864		85	14.2	9.6	370	6.3	0.105
W596865		175	8.8	16.3	116	12.7	0.155
W596866		172	6.2	16.7	92	11.8	0.310

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Project: Klaza

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CERTIFICATE OF ANALYSIS WH20226294

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE WH20227042

Project: Klaza

P.O. No.: Batch 50

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
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CERTIFICATE OF ANALYSIS WH20227042

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598411		3.48		0.15	8.29	10.4	2170	1.19	0.48	3.37	0.39	28.7	6.1	8	10.15	9.0
W598412		4.48		0.13	8.37	5.7	2360	1.35	0.43	3.68	0.35	29.5	6.9	9	8.61	10.6
W598413		2.60		0.16	7.95	9.5	2550	1.22	0.48	3.60	0.32	27.9	5.9	9	8.19	38.0
W598414		1.81		0.66	7.03	103.5	1350	1.41	0.97	3.75	0.49	24.5	7.8	8	11.30	75.7
W598415		3.99		0.37	7.29	31.8	1880	1.16	1.25	3.72	0.48	25.6	5.7	6	12.70	58.4
W598416		3.54		0.59	7.74	49.7	1910	1.45	0.89	3.88	0.71	28.1	8.8	8	14.90	48.1
W598417		0.26		10.30	6.67	2000	250	1.34	5.34	1.76	37.1	47.4	10.7	30	15.40	195.5
W598418		4.38		0.15	6.89	11.7	1660	1.07	0.34	2.96	0.29	11.90	3.4	5	8.12	20.1
W598419		4.06		0.27	7.85	30.9	430	1.11	0.27	3.20	0.47	30.2	6.6	6	9.52	15.9
W598420		1.84		11.20	6.88	1040	290	1.36	0.29	4.13	28.6	29.0	7.4	5	16.05	31.7
W598421		4.33		0.20	7.53	15.9	1220	1.31	0.24	3.76	0.57	33.3	8.4	27	18.05	7.0
W598422		4.06		0.41	7.60	32.1	1820	1.69	0.57	3.50	2.07	38.6	10.2	10	14.15	12.4
W598423		1.61		0.58	7.42	166.0	1950	1.71	0.60	3.89	1.79	45.2	9.4	10	18.00	20.2
W598424		<0.02		0.74	7.44	219	2000	1.75	0.65	4.22	2.36	44.4	9.7	10	18.45	19.7
W598425		4.47		0.09	7.93	4.5	1620	1.81	0.32	3.83	0.37	52.0	10.4	12	23.7	7.7
W598426		6.03		0.10	7.89	7.9	1820	1.65	0.55	3.65	0.40	38.6	7.1	10	7.43	8.4
W598427		2.05		0.48	7.65	76.4	1230	1.59	0.60	3.29	0.63	38.1	12.5	10	14.15	48.9
W598428		2.64		0.07	7.99	4.1	1810	1.66	0.33	3.87	0.27	53.8	10.9	15	11.00	6.1
W598429		2.06		0.55	7.64	257	1610	1.59	0.32	3.04	2.89	44.3	10.6	11	9.82	9.4
W598430		6.01		0.12	8.28	6.7	1880	1.62	0.61	3.47	0.50	57.9	11.0	14	8.04	15.5
W598431		0.26	1.480	90.3	4.51	3870	270	1.12	50.7	1.49	191.5	30.8	57.7	34	9.86	1260
W598432		4.37		0.12	8.36	5.9	1790	1.81	0.41	3.66	0.48	58.9	11.3	13	7.25	9.2
W598433		2.63		0.09	7.82	4.9	1880	1.68	0.47	3.19	0.45	54.8	10.7	12	5.52	8.2
W598434		6.07		0.10	8.05	5.8	2000	1.62	0.45	3.50	0.43	54.2	11.3	12	9.93	12.1
W598435		2.05		0.24	7.51	20.5	1530	1.13	0.66	3.50	0.82	36.6	8.9	10	10.30	18.7
W598436		3.26		0.14	7.86	6.1	1750	1.67	0.68	3.76	0.62	53.6	10.6	13	8.69	8.0
W598437		3.16		0.14	7.76	59.4	1770	1.75	0.61	4.08	0.44	48.2	9.0	13	13.65	5.3
W598438		1.91		6.58	6.91	150.0	480	1.66	0.89	2.79	2.82	36.7	9.2	17	14.60	24.0
W598439		0.61		5.20	7.22	150.5	310	1.68	0.92	2.64	3.02	40.5	8.9	12	14.95	21.7
W598440		2.03		7.21	6.17	281	920	1.60	1.12	2.52	9.39	49.4	8.8	15	17.15	27.4
W598441		6.06		0.09	6.94	8.2	840	1.94	0.10	2.70	0.29	57.0	6.4	25	20.9	3.9
W598442		6.06		1.51	7.38	30.4	1280	1.87	0.47	2.61	0.34	61.2	7.4	24	21.0	8.9
W598443		2.48		15.40	7.17	282	400	1.78	1.78	3.10	4.28	53.0	11.9	14	21.5	35.5
W598444		4.97		0.02	0.11	<0.2	30	0.07	0.02	31.8	0.02	1.11	0.5	9	0.10	1.6
W598445		5.94		1.53	7.43	414	1970	1.47	0.64	4.29	3.54	52.6	10.7	13	18.20	13.0
W598446		5.82		4.21	6.30	405	590	1.39	0.48	5.32	12.80	42.4	9.5	8	18.35	27.3
W598447		7.08		5.94	7.26	884	1250	1.53	0.32	0.30	2.70	52.2	9.1	3	10.85	76.2
W598448		3.38		50.2	6.02	1080	630	1.33	0.23	0.11	8.28	45.2	4.9	4	11.85	102.0
W598449		7.61		2.80	6.32	361	640	1.35	0.26	0.70	7.72	42.0	8.6	2	10.75	97.1
W598450		3.23		2.24	6.23	181.0	730	1.38	0.28	1.81	1.26	50.3	9.3	10	24.8	66.6

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CERTIFICATE OF ANALYSIS WH20227042

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598411		3.26	19.00	0.14	0.5	0.065	2.24	10.4	19.6	0.72	952	1.84	2.59	7.8	3.1	1060
W598412		3.48	19.95	0.12	0.4	0.055	2.26	11.0	17.6	0.93	1020	2.52	3.54	8.8	3.6	1160
W598413		2.94	18.10	0.12	0.4	0.052	2.47	10.1	11.0	0.67	898	2.74	3.08	7.4	3.4	1060
W598414		2.68	17.50	0.11	0.3	0.058	2.77	8.7	16.2	0.81	2260	4.56	1.54	7.9	3.4	960
W598415		2.32	18.85	0.11	0.3	0.069	2.32	10.1	186.5	0.84	1340	15.45	0.40	7.0	3.7	850
W598416		2.51	18.50	0.12	0.4	0.060	2.66	10.9	58.0	0.94	1420	3.77	1.47	8.0	8.4	1060
W598417		5.99	15.10	0.11	1.1	0.678	2.89	26.0	41.1	0.75	2070	8.57	0.07	6.4	16.8	520
W598418		1.67	16.70	0.10	0.6	0.025	2.84	4.7	35.5	0.58	634	20.3	0.94	4.4	2.0	470
W598419		2.90	17.90	0.11	0.4	0.053	1.38	11.6	58.1	0.89	1520	4.49	0.04	7.3	4.2	1020
W598420		3.55	16.25	0.10	0.4	0.081	2.47	12.3	27.9	1.35	2140	1.81	0.03	6.4	5.3	820
W598421		3.61	18.45	0.11	0.4	0.062	2.09	14.1	40.0	1.11	1480	5.05	0.88	8.5	8.5	1300
W598422		3.68	20.5	0.12	0.5	0.077	2.98	17.3	16.3	0.94	1280	2.16	2.32	9.9	6.7	1250
W598423		3.74	19.75	0.12	0.6	0.087	3.08	20.2	21.0	0.91	2210	2.68	1.35	10.6	5.4	1290
W598424		3.93	19.55	0.14	0.6	0.085	3.17	20.0	18.8	1.02	2720	2.80	1.25	10.2	5.8	1290
W598425		3.94	19.60	0.10	0.7	0.065	2.71	24.9	11.9	0.92	1140	4.40	2.85	10.8	6.5	1470
W598426		3.36	19.75	0.10	0.6	0.051	2.05	16.9	13.6	0.93	872	3.68	3.05	9.4	4.2	1210
W598427		3.17	20.2	0.11	0.6	0.067	2.40	16.5	17.9	0.40	800	4.55	1.48	10.7	5.9	1450
W598428		4.14	20.2	0.11	0.7	0.058	2.19	24.4	10.4	1.04	987	3.15	3.04	11.4	6.6	1610
W598429		3.64	18.90	0.10	0.6	0.052	2.65	20.8	12.9	0.67	968	3.40	2.14	10.0	5.9	1340
W598430		4.17	20.7	0.11	0.7	0.075	2.80	27.8	16.4	1.32	1160	2.68	3.21	11.3	6.4	1530
W598431		11.25	11.55	0.11	0.8	4.38	1.92	16.0	32.5	0.52	1840	17.20	0.15	4.5	15.1	360
W598432		4.36	21.0	0.11	0.7	0.070	2.52	27.8	13.2	1.43	1260	10.25	3.19	12.1	6.8	1580
W598433		3.97	19.30	0.10	0.6	0.062	2.51	27.9	11.8	1.33	1120	2.94	2.91	10.6	6.3	1430
W598434		3.95	20.3	0.11	0.7	0.068	2.62	25.0	27.5	1.08	1100	1.77	2.41	11.4	6.2	1520
W598435		3.54	19.40	0.11	0.6	0.091	2.80	16.0	37.1	0.66	1540	6.27	0.58	10.0	5.1	1390
W598436		4.19	19.60	0.11	0.7	0.076	2.65	25.2	13.3	1.11	1220	2.37	2.93	11.8	6.6	1550
W598437		3.75	19.80	0.11	0.7	0.065	2.51	22.2	17.5	0.84	1180	3.88	2.45	10.9	5.8	1450
W598438		3.29	17.65	0.08	0.5	0.064	1.86	17.3	62.7	0.84	1840	2.72	0.04	9.8	6.3	1170
W598439		2.91	17.25	0.09	0.6	0.054	1.93	20.4	61.5	0.82	1720	2.89	0.03	9.4	5.8	1130
W598440		2.93	15.15	0.10	2.6	0.047	2.50	26.6	54.0	1.14	1940	7.61	0.03	7.9	6.3	770
W598441		2.33	17.05	0.11	3.1	0.027	2.97	28.9	54.9	1.18	729	0.84	0.04	9.0	7.4	750
W598442		2.43	17.70	0.12	3.1	0.034	3.03	32.4	64.5	1.21	850	1.65	0.08	9.6	7.6	830
W598443		4.69	17.65	0.11	1.4	0.072	2.24	26.9	80.3	1.32	1480	2.34	0.04	9.4	6.9	1110
W598444		0.11	0.37	0.07	0.1	<0.005	0.03	1.2	1.4	1.85	101	0.07	0.04	0.2	0.8	70
W598445		3.36	18.50	0.13	0.8	0.076	1.78	26.1	82.0	1.37	2240	5.46	0.03	10.4	6.7	1350
W598446		3.14	14.00	0.09	0.5	0.059	2.05	19.3	67.8	1.56	3370	2.81	0.09	7.8	5.8	1130
W598447		1.86	14.50	0.12	0.8	0.026	3.28	28.2	42.4	0.22	2680	8.27	0.04	8.6	2.2	600
W598448		2.41	12.70	0.10	0.6	0.031	2.78	25.0	26.1	0.21	1480	12.20	0.03	7.2	1.1	370
W598449		1.62	13.05	0.10	0.6	0.016	2.68	22.8	43.6	0.21	2510	13.10	0.03	7.1	1.7	550
W598450		1.77	13.15	0.10	0.6	0.027	2.35	26.3	40.1	0.63	998	5.57	0.03	7.4	3.6	500

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598411		28.2	66.8	<0.002	0.08	5.47	7.2	<1	3.1	752	0.54	<0.05	1.70	0.281	0.90	1.2
W598412		24.9	54.9	<0.002	0.05	1.51	7.8	<1	2.4	1015	0.61	<0.05	1.56	0.302	0.75	0.9
W598413		23.3	64.3	0.002	0.12	2.58	7.0	<1	2.3	861	0.49	0.07	1.48	0.277	0.74	0.9
W598414		25.1	93.7	0.002	0.65	11.75	6.5	<1	3.8	449	0.73	0.28	1.28	0.249	1.63	1.7
W598415		23.6	63.3	0.014	0.42	22.7	5.1	<1	2.6	405	0.57	0.58	1.31	0.223	1.35	1.6
W598416		36.9	83.4	0.003	0.43	18.45	7.0	<1	2.1	488	0.56	0.12	1.82	0.277	1.91	1.7
W598417		1770	165.5	<0.002	3.47	49.5	8.7	<1	6.3	81.5	0.53	0.22	10.70	0.211	2.71	4.2
W598418		22.6	69.2	0.006	0.10	6.16	3.1	<1	1.6	323	0.77	0.05	1.04	0.127	0.98	17.1
W598419		19.5	36.6	0.002	0.16	32.4	6.8	<1	2.3	161.0	0.56	<0.05	1.69	0.266	1.32	1.5
W598420		4060	125.0	<0.002	1.81	20.2	5.8	1	2.4	169.0	0.54	<0.05	1.48	0.201	2.10	2.4
W598421		29.7	56.6	0.002	0.14	12.85	8.5	1	1.7	461	0.55	<0.05	3.36	0.311	1.03	1.8
W598422		72.7	88.4	<0.002	0.16	5.22	9.2	<1	2.2	725	0.67	<0.05	4.94	0.311	1.15	1.6
W598423		49.6	95.9	<0.002	0.82	13.75	9.9	<1	2.2	581	0.67	<0.05	5.35	0.319	1.32	2.0
W598424		59.6	105.5	<0.002	1.21	14.30	9.7	<1	2.2	552	0.63	0.05	5.27	0.313	1.53	2.3
W598425		27.3	68.7	<0.002	0.02	3.70	10.8	<1	2.1	892	0.70	<0.05	6.55	0.355	0.65	1.7
W598426		25.4	53.0	<0.002	0.14	1.89	8.7	<1	2.5	826	0.61	<0.05	4.15	0.302	0.62	1.4
W598427		38.8	77.7	<0.002	1.18	19.00	10.0	<1	2.2	463	0.68	0.07	4.90	0.351	1.41	1.8
W598428		21.8	48.6	<0.002	0.09	2.13	11.4	<1	1.8	971	0.75	0.09	6.12	0.385	0.48	1.7
W598429		120.0	67.4	<0.002	0.43	7.16	9.5	<1	1.8	714	0.66	<0.05	5.72	0.329	0.71	1.5
W598430		32.7	67.8	<0.002	0.03	1.25	11.0	<1	2.0	1005	0.76	<0.05	8.11	0.371	0.63	2.1
W598431		9170	115.5	0.003	>10.0	232	6.9	2	10.5	90.1	0.37	1.97	7.40	0.144	1.91	4.7
W598432		31.0	60.9	0.003	0.03	0.93	11.8	<1	2.4	1090	0.80	<0.05	8.14	0.393	0.59	2.2
W598433		30.8	62.7	<0.002	0.03	0.86	10.9	<1	1.8	996	0.67	<0.05	8.21	0.345	0.56	2.2
W598434		29.7	69.1	<0.002	0.25	2.69	11.0	<1	2.3	788	0.72	<0.05	7.66	0.368	0.70	2.0
W598435		33.9	70.8	<0.002	0.37	20.4	8.8	<1	3.3	332	0.66	<0.05	5.37	0.336	0.93	1.6
W598436		35.9	69.4	<0.002	0.04	2.32	11.1	<1	2.1	865	0.78	<0.05	8.04	0.380	0.75	2.1
W598437		32.6	79.1	<0.002	0.16	4.82	10.5	<1	2.8	757	0.71	0.06	7.22	0.349	0.81	2.3
W598438		178.0	72.8	<0.002	1.52	24.0	9.8	<1	2.4	184.5	0.64	0.08	8.25	0.308	1.82	3.1
W598439		178.0	92.4	<0.002	1.25	21.4	8.9	<1	2.7	173.0	0.62	0.06	10.65	0.288	1.80	3.1
W598440		619	106.5	<0.002	0.78	38.1	7.6	<1	2.4	599	0.52	<0.05	7.59	0.253	1.74	4.9
W598441		17.5	109.5	<0.002	0.05	7.51	7.5	<1	1.5	476	0.65	<0.05	9.22	0.259	1.79	5.2
W598442		139.0	136.5	<0.002	0.17	10.30	8.0	<1	2.0	513	0.68	<0.05	9.80	0.272	2.24	5.0
W598443		759	114.0	<0.002	2.00	32.6	8.8	<1	4.1	333	0.62	<0.05	7.11	0.287	1.88	3.0
W598444		1.2	1.2	<0.002	0.01	0.13	0.2	1	<0.2	81.3	<0.05	<0.05	0.09	0.005	0.02	0.3
W598445		111.5	91.1	<0.002	0.60	23.8	11.2	<1	2.4	286	0.66	<0.05	7.35	0.333	1.70	2.8
W598446		552	92.0	<0.002	0.93	32.7	8.3	1	2.0	261	0.48	<0.05	5.27	0.270	1.88	2.1
W598447		72.4	181.0	<0.002	0.20	64.6	4.4	<1	1.7	67.6	0.63	0.05	15.35	0.164	3.21	3.0
W598448		2220	159.0	<0.002	0.26	104.5	3.6	<1	2.8	76.1	0.49	0.06	13.15	0.139	2.60	3.4
W598449		54.7	149.5	<0.002	0.17	70.8	3.7	<1	1.6	140.5	0.52	<0.05	13.50	0.144	2.61	2.6
W598450		83.0	106.0	<0.002	0.15	40.8	4.8	<1	4.3	255	0.58	<0.05	15.75	0.171	1.82	4.1

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20227042

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598411		83	1.4	15.6	91	6.4	0.008
W598412		92	1.1	15.9	93	6.8	0.009
W598413		83	1.4	14.2	80	6.1	0.009
W598414		75	3.2	12.4	75	5.1	0.076
W598415		69	3.0	11.2	94	5.5	0.028
W598416		84	3.2	13.8	101	5.0	0.022
W598417		64	6.1	11.3	2890	29.5	0.696
W598418		42	1.5	8.6	53	8.7	0.008
W598419		83	4.8	13.4	77	6.7	0.007
W598420		71	2.1	16.0	2000	6.0	0.370
W598421		102	2.4	15.8	109	6.8	0.007
W598422		104	1.9	17.3	221	8.6	0.018
W598423		102	2.2	18.5	231	8.6	0.056
W598424		101	2.2	18.5	288	8.3	0.089
W598425		114	1.2	19.7	108	9.7	0.008
W598426		93	1.3	17.0	83	9.3	0.010
W598427		110	2.3	16.6	77	10.2	0.016
W598428		123	0.6	21.8	101	12.6	0.006
W598429		106	1.2	17.3	227	10.8	0.094
W598430		118	1.3	21.3	112	10.9	0.007
W598431		47	4.7	10.2	>10000	22.3	3.00
W598432		126	0.9	23.0	117	11.6	0.013
W598433		113	1.1	20.2	103	10.4	<0.005
W598434		113	1.7	21.6	97	9.7	0.005
W598435		112	2.7	16.7	114	9.1	0.017
W598436		120	1.6	21.5	117	9.5	0.005
W598437		110	2.4	20.3	101	9.2	0.010
W598438		96	4.6	15.0	228	8.8	0.055
W598439		87	4.7	15.2	231	9.2	0.056
W598440		69	2.2	13.8	742	92.0	0.193
W598441		62	1.5	13.2	71	109.5	0.005
W598442		67	1.8	13.7	70	105.5	0.032
W598443		86	2.0	16.6	334	47.1	0.657
W598444		1	<0.1	2.3	5	2.3	<0.005
W598445		104	3.7	19.3	268	15.2	0.022
W598446		90	3.6	15.4	875	7.7	0.124
W598447		29	5.4	12.8	289	22.6	0.307
W598448		27	2.6	7.3	627	19.3	9.80
W598449		33	2.4	10.8	692	18.3	0.064
W598450		41	4.1	12.8	183	17.5	0.043

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20227042

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE WH20227062

Project: Klaza

P.O. No.: Batch 51

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 6-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20227062

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596867		5.93		0.44	8.39	12.4	270	1.63	1.18	2.90	0.46	45.0	22.1	29	10.35	321
W596868		3.46		2.29	8.02	136.5	230	1.61	3.73	3.88	24.7	43.9	20.7	27	27.1	220
W596869		6.01		0.20	7.16	204	860	1.59	0.09	2.13	0.16	44.1	5.1	9	19.80	6.7
W596870		7.87		0.27	7.46	323	1080	1.58	0.17	1.76	0.32	44.9	4.2	9	14.75	5.7
W596871		7.89		0.29	7.40	200	1030	1.44	0.08	1.78	1.39	41.6	3.8	8	14.75	6.5
W596872		7.61		0.29	7.26	247	1390	1.55	0.10	1.86	0.83	41.9	3.7	8	15.90	8.0
W596873		0.26	1.485	95.3	4.74	4100	600	0.91	52.5	1.64	202	29.4	56.7	36	8.93	1275
W596874		8.39		0.16	7.42	112.0	920	1.45	0.09	1.96	0.11	40.4	3.2	8	15.75	3.4
W596875		4.65		0.33	7.39	155.5	780	1.44	0.10	2.27	0.08	42.3	3.4	8	15.80	5.0
W596876		5.26		0.31	7.54	259	1050	1.54	0.70	2.05	0.21	45.3	5.7	11	15.70	10.6
W596877		3.38		1.06	8.44	131.0	620	1.98	1.59	2.45	0.75	48.3	20.3	14	27.2	161.0
W596878		6.72		0.60	7.99	82.8	200	1.36	1.36	3.17	0.17	38.3	16.8	14	13.15	201
W596879		0.26	1.465	95.2	4.67	3950	960	0.98	44.8	1.54	199.5	30.2	57.4	36	9.25	1255
W596880		7.02		0.60	7.48	43.8	790	1.47	1.10	3.79	0.60	44.3	17.0	15	13.35	203
W596881		5.79		0.44	8.17	27.7	1210	1.70	0.72	4.14	0.31	47.8	15.4	12	11.65	192.5
W596882		3.80		2.53	6.68	169.0	60	1.24	4.15	3.19	11.25	27.5	26.6	11	15.75	174.5
W596883		5.63		1.31	7.70	99.9	150	1.44	1.80	3.95	5.93	42.4	22.7	14	20.1	146.5
W596884		5.99		0.46	8.35	21.1	450	1.58	0.51	4.91	0.24	48.9	13.2	14	16.80	267
W596885		5.61		0.36	8.25	13.9	350	1.43	0.61	3.94	0.29	43.7	17.3	11	15.95	231
W596886		7.83		0.85	6.93	105.0	420	1.34	2.50	3.95	0.48	41.0	15.9	50	17.75	266
W596887		6.19		1.28	7.42	94.9	420	1.50	1.25	3.62	1.84	41.0	17.9	63	21.0	362
W596888		3.86		9.85	5.75	387	60	0.89	12.20	1.59	10.65	18.10	11.8	53	10.80	149.0
W596889		5.16		0.03	0.18	1.0	30	0.09	0.06	34.6	0.02	1.05	0.6	2	0.12	2.0
W596890		7.91		4.28	7.42	173.0	100	1.20	5.33	2.02	2.38	40.7	16.4	64	10.85	753
W596891		6.96		0.93	7.66	18.0	320	1.18	2.19	4.28	0.46	46.2	18.1	65	14.45	304
W596892		4.14		1.07	8.15	44.1	280	1.37	3.59	3.85	0.62	44.0	16.1	72	14.80	304
W596893		5.73		0.85	6.74	98.6	130	1.16	1.71	4.75	0.20	34.3	33.9	56	23.4	261
W596894		4.89		1.20	7.38	41.3	200	1.17	1.92	3.62	0.28	46.2	23.5	66	13.65	385
W596895		3.55		1.72	7.38	91.6	240	1.38	5.17	3.83	0.37	34.5	17.6	62	20.3	608
W596896		5.79		1.56	7.66	231	190	1.53	1.65	3.50	0.44	46.3	22.9	70	22.3	278
W596897		<0.02		1.62	7.44	236	240	1.56	1.57	3.49	0.45	45.8	23.3	67	22.0	279
W596898		3.34		1.30	7.57	181.5	90	1.46	3.68	2.99	4.02	34.0	22.8	61	12.10	158.5
W596899		2.72		1.90	7.31	84.2	110	1.40	2.61	2.93	0.82	38.1	23.9	15	14.65	841
W596900		2.99		1.56	7.32	134.0	230	1.50	3.50	3.23	4.21	35.0	19.6	14	17.40	186.0
W596901		3.94		0.29	8.10	16.3	160	1.60	0.74	3.67	0.21	47.0	28.6	15	12.55	134.0
W596902		3.75		0.33	8.16	13.4	170	1.69	0.79	3.37	0.18	45.4	25.0	16	10.95	203
W596903		1.89		0.32	7.84	13.5	120	1.59	0.83	3.20	0.21	40.2	30.6	16	11.10	194.5
W596904		2.64		0.33	6.84	15.3	250	1.07	0.74	4.06	0.29	33.6	20.8	13	9.56	175.0
W596905		3.82		0.30	7.92	12.5	560	1.58	0.95	3.15	0.30	37.0	23.7	16	11.65	98.5
W596906		3.82		0.24	7.64	17.8	200	1.38	1.04	2.82	0.54	40.1	23.1	16	10.75	66.0

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Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20227062

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596867		6.37	17.80	0.11	0.6	0.124	1.85	21.5	35.8	2.77	460	1.43	1.20	5.1	18.3	1930
W596868		6.02	17.70	0.10	1.0	0.418	2.77	21.3	21.2	1.40	2020	1.34	0.19	6.0	13.1	1740
W596869		1.99	15.85	0.12	2.3	0.018	3.13	25.0	9.5	0.88	771	1.42	0.05	6.8	4.4	490
W596870		2.03	15.95	0.12	2.0	0.014	3.35	25.7	9.1	0.81	673	2.00	0.04	6.9	4.1	440
W596871		1.64	15.35	0.12	2.0	0.019	3.29	23.7	9.9	0.83	590	2.18	0.04	6.7	3.7	440
W596872		1.78	15.20	0.13	1.9	0.018	3.12	24.5	12.2	0.87	633	2.04	0.04	6.6	4.0	430
W596873		12.05	10.50	0.09	0.7	4.12	2.05	15.0	25.9	0.57	1940	15.95	0.16	3.9	13.8	380
W596874		1.42	16.05	0.10	1.9	0.016	3.27	23.4	11.5	0.86	493	2.09	0.05	6.9	3.1	440
W596875		1.64	15.95	0.12	2.0	0.018	3.30	24.3	11.1	1.01	610	1.84	0.05	6.6	3.4	450
W596876		2.04	16.25	0.12	3.3	0.025	3.32	25.9	15.0	0.87	701	2.21	0.05	7.2	5.4	640
W596877		5.97	17.20	0.13	0.7	0.081	3.65	26.4	9.5	1.27	1320	2.37	0.08	5.2	7.5	1480
W596878		6.22	15.15	0.11	0.5	0.087	2.32	20.1	18.3	1.31	653	1.43	0.39	4.7	6.4	1450
W596879		11.55	11.50	0.11	0.8	4.21	1.98	16.9	29.3	0.55	1900	17.15	0.16	4.4	14.3	380
W596880		5.08	17.40	0.12	0.6	0.114	1.96	23.3	32.3	1.81	386	1.43	0.89	5.6	7.1	1460
W596881		5.46	18.30	0.13	0.6	0.117	1.61	25.8	33.8	1.97	382	1.61	1.14	6.1	6.0	1660
W596882		10.80	15.05	0.14	0.4	0.186	2.67	14.6	12.7	1.39	1380	5.95	0.13	2.7	7.4	1400
W596883		6.91	17.05	0.15	0.5	0.119	3.17	22.8	11.2	1.78	2520	7.29	0.12	3.6	9.9	1850
W596884		5.09	18.30	0.13	0.6	0.069	1.76	26.7	31.2	2.03	445	1.37	1.10	4.6	10.1	1900
W596885		5.91	18.15	0.12	0.5	0.100	1.63	24.6	39.8	2.69	459	1.96	0.80	5.7	11.2	1770
W596886		11.90	17.65	0.13	0.5	0.227	2.04	21.6	26.6	2.63	724	1.41	0.28	3.9	16.2	1350
W596887		6.47	17.55	0.14	0.5	0.145	2.94	19.7	22.0	1.81	1500	1.34	0.05	4.2	18.5	1530
W596888		14.65	15.45	0.21	0.4	0.259	3.13	6.8	3.3	0.80	1100	2.11	0.04	2.7	13.7	990
W596889		0.19	0.56	0.06	0.1	0.005	0.05	1.1	1.2	1.62	104	0.05	0.08	0.3	0.6	70
W596890		9.16	18.85	0.14	0.6	0.183	3.48	19.7	10.8	0.99	903	1.99	0.05	3.6	18.5	1420
W596891		6.58	16.65	0.12	0.5	0.157	1.84	23.9	31.5	2.78	709	1.05	0.74	4.9	20.2	1530
W596892		6.35	17.10	0.14	0.7	0.170	2.10	22.1	27.1	2.55	1140	1.40	0.85	5.6	20.5	1610
W596893		7.54	14.00	0.14	0.4	0.116	2.63	16.3	12.6	1.74	1350	26.1	0.07	3.7	21.7	1250
W596894		6.55	15.35	0.13	0.7	0.147	1.78	24.1	30.5	2.56	785	1.31	0.68	5.5	23.3	1540
W596895		7.26	17.35	0.12	0.5	0.159	2.59	17.1	22.5	1.74	904	5.05	0.28	4.4	19.4	1580
W596896		6.30	15.35	0.13	0.6	0.128	2.88	23.4	15.6	1.49	1920	5.82	0.06	4.4	21.2	1470
W596897		6.14	15.60	0.12	0.6	0.141	2.91	22.0	16.0	1.46	1900	7.44	0.06	4.3	21.2	1460
W596898		9.32	16.15	0.15	0.5	0.247	3.36	17.1	12.9	1.41	1140	33.3	0.05	3.0	19.0	1360
W596899		9.68	17.20	0.13	0.5	0.161	3.20	17.9	12.9	1.30	1240	20.9	0.05	3.3	7.2	1420
W596900		7.25	15.35	0.12	0.4	0.220	2.92	18.1	14.9	1.16	1480	3.09	0.05	3.9	7.8	1230
W596901		5.23	17.10	0.14	0.4	0.044	1.74	22.4	24.1	1.58	320	13.80	1.05	3.6	7.1	1590
W596902		5.48	16.65	0.13	0.5	0.052	1.75	21.0	23.2	2.03	233	1.92	1.70	3.9	7.9	1570
W596903		5.98	16.40	0.13	0.5	0.045	1.79	19.1	24.2	2.05	226	2.82	1.56	3.6	8.3	1530
W596904		5.81	12.00	0.10	0.4	0.067	1.67	17.2	22.0	1.76	394	22.9	0.80	2.7	6.0	1250
W596905		5.20	16.30	0.12	0.5	0.063	1.95	17.7	24.3	1.95	362	2.94	1.29	3.7	7.0	1560
W596906		5.00	13.65	0.11	0.4	0.062	2.73	19.9	20.3	1.49	239	11.20	0.77	2.7	6.7	1320

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20227062

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596867		20.2	62.2	<0.002	3.13	3.02	19.6	2	6.1	515	0.30	0.15	6.65	0.475	1.90	2.8
W596868		558	114.0	<0.002	3.21	19.70	17.4	3	6.0	250	0.38	0.78	6.65	0.436	2.89	4.7
W596869		20.5	166.5	<0.002	0.82	5.49	4.1	1	1.1	46.6	0.61	0.13	11.10	0.170	2.95	3.9
W596870		25.7	168.5	<0.002	1.11	5.35	3.6	1	0.9	50.5	0.66	0.20	11.25	0.158	3.17	3.5
W596871		68.9	161.0	<0.002	0.81	5.08	3.4	1	1.0	35.9	0.63	0.07	11.25	0.157	2.98	3.1
W596872		55.7	165.5	<0.002	0.98	5.60	3.6	1	0.9	50.5	0.61	0.12	11.10	0.156	2.85	3.1
W596873		9550	102.5	0.002	>10.0	229	6.1	1	9.9	87.8	0.32	1.88	6.62	0.144	1.79	4.1
W596874		34.5	160.0	<0.002	0.49	4.80	3.4	<1	0.8	31.5	0.62	0.06	11.05	0.155	3.03	3.6
W596875		11.3	180.5	<0.002	0.61	4.99	3.5	<1	1.0	43.6	0.59	0.38	11.00	0.155	3.31	3.0
W596876		24.1	175.0	<0.002	1.16	9.89	5.5	1	1.2	61.2	0.59	0.37	10.50	0.227	3.46	4.4
W596877		65.5	226	<0.002	5.65	38.6	16.5	4	11.8	90.4	0.38	0.43	8.66	0.352	4.22	2.9
W596878		18.9	98.9	<0.002	4.16	14.60	14.1	2	4.7	228	0.33	0.45	7.01	0.370	2.15	3.4
W596879		9270	114.0	<0.002	>10.0	235	6.9	2	10.8	90.8	0.35	1.89	7.04	0.148	1.81	4.8
W596880		31.3	81.0	<0.002	2.73	6.66	16.0	2	5.3	280	0.36	0.20	7.03	0.373	2.11	3.6
W596881		22.1	73.5	<0.002	2.23	6.33	17.5	2	4.1	452	0.41	0.17	7.96	0.433	1.78	3.1
W596882		502	151.5	<0.002	>10.0	34.7	14.5	8	16.0	98.5	0.20	0.79	5.92	0.249	2.83	2.7
W596883		242	169.5	<0.002	6.77	24.8	16.7	7	12.3	112.0	0.25	0.46	6.56	0.333	3.37	2.6
W596884		17.8	87.5	<0.002	2.61	6.11	16.4	2	4.9	634	0.33	0.11	7.85	0.428	2.07	4.4
W596885		20.5	74.9	<0.002	2.78	4.52	20.0	2	5.7	417	0.34	0.09	7.11	0.529	1.79	3.4
W596886		63.4	122.5	<0.002	>10.0	6.06	19.4	3	9.2	204	0.25	0.40	6.82	0.333	2.40	3.4
W596887		125.5	127.0	<0.002	4.94	12.65	22.4	2	8.9	103.0	0.25	0.32	5.66	0.415	3.27	2.9
W596888		1070	127.0	<0.002	>10.0	32.7	16.4	36	28.1	32.3	0.16	3.62	3.67	0.269	2.49	1.8
W596889		2.7	1.7	<0.002	0.03	0.32	0.3	<1	0.2	82.3	<0.05	<0.05	0.17	0.006	<0.02	0.2
W596890		205	141.5	<0.002	9.04	33.3	20.7	8	25.1	43.6	0.23	1.13	5.67	0.351	2.96	2.1
W596891		62.1	72.1	<0.002	2.94	3.01	20.6	1	6.0	381	0.30	0.15	5.69	0.447	1.99	2.4
W596892		68.3	88.5	<0.002	2.72	7.69	22.7	2	6.9	412	0.34	1.32	6.27	0.460	2.18	3.6
W596893		20.5	106.5	0.006	6.22	18.00	19.0	4	3.7	162.5	0.23	0.13	4.40	0.331	3.25	2.0
W596894		18.6	94.1	<0.002	3.75	6.45	26.4	2	4.1	343	0.35	0.18	7.75	0.471	2.15	3.3
W596895		29.1	123.0	<0.002	5.75	8.16	21.3	2	9.1	236	0.25	0.32	5.58	0.404	2.75	2.4
W596896		30.4	184.0	<0.002	5.18	28.6	24.3	2	5.6	140.0	0.28	0.23	7.05	0.401	3.88	2.5
W596897		28.7	179.0	0.002	5.09	29.3	23.8	2	5.8	141.5	0.28	0.20	6.71	0.396	3.82	2.4
W596898		189.0	162.0	<0.002	8.94	11.90	18.6	14	18.0	77.6	0.19	1.57	5.31	0.285	3.04	2.0
W596899		51.4	138.0	0.008	8.91	17.55	17.0	4	9.7	72.1	0.25	0.29	5.44	0.275	3.08	2.3
W596900		267	123.5	<0.002	6.54	25.8	12.1	6	10.8	86.3	0.28	0.74	6.22	0.286	2.96	2.2
W596901		17.4	69.9	0.003	4.27	6.00	15.6	3	4.3	345	0.25	0.18	5.79	0.325	1.82	2.3
W596902		13.7	69.3	<0.002	4.63	2.41	17.4	2	3.9	429	0.26	0.19	6.97	0.320	1.84	2.5
W596903		13.2	62.7	<0.002	5.28	2.07	17.2	4	4.1	400	0.26	0.17	6.54	0.302	1.85	2.6
W596904		18.6	66.2	0.003	4.96	2.60	11.9	4	4.5	257	0.18	0.13	5.77	0.245	1.35	2.0
W596905		31.4	69.2	<0.002	4.25	2.22	16.0	2	3.7	285	0.26	0.24	5.84	0.311	1.94	2.4
W596906		27.3	133.0	<0.002	4.45	3.43	13.7	2	3.9	192.5	0.19	0.26	6.83	0.230	2.07	1.9

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20227062

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596867		209	4.5	16.9	113	13.6	0.172
W596868		181	7.0	15.2	2120	31.4	0.204
W596869		35	6.4	9.6	49	78.9	0.281
W596870		29	6.2	9.2	58	62.9	0.469
W596871		29	6.9	8.3	92	58.6	1.125
W596872		29	6.2	8.3	71	60.2	0.698
W596873		49	4.0	8.6	>10000	19.8	2.97
W596874		29	3.2	8.0	45	62.0	0.106
W596875		30	3.4	8.4	43	65.4	0.179
W596876		51	4.6	10.5	58	121.5	0.143
W596877		151	12.3	16.5	78	15.3	0.174
W596878		160	8.1	14.2	54	11.5	0.432
W596879		50	4.7	9.3	>10000	25.7	2.86
W596880		149	5.9	16.0	91	11.6	0.169
W596881		187	4.7	18.0	85	11.7	0.089
W596882		138	13.8	13.8	877	8.6	0.238
W596883		158	15.8	16.2	546	10.7	0.167
W596884		182	6.7	16.6	79	11.5	0.109
W596885		185	4.9	16.5	91	12.1	0.105
W596886		150	6.6	16.1	121	10.2	0.187
W596887		198	8.8	15.1	263	10.7	0.216
W596888		157	27.4	6.0	858	8.4	0.225
W596889		1	0.3	2.1	5	2.2	0.007
W596890		188	21.3	10.5	220	10.8	0.697
W596891		184	5.5	16.1	123	9.8	0.132
W596892		190	6.5	16.2	131	12.0	0.261
W596893		151	11.6	14.5	84	8.9	0.136
W596894		193	9.1	18.3	90	12.1	0.127
W596895		185	8.5	14.1	97	10.5	0.192
W596896		178	8.0	16.7	116	11.3	0.343
W596897		176	7.4	17.1	114	11.5	0.323
W596898		152	14.7	12.7	367	9.6	0.196
W596899		149	9.2	12.5	128	8.6	0.292
W596900		131	10.0	11.2	385	7.6	0.326
W596901		161	5.4	14.6	57	9.0	0.069
W596902		167	5.6	15.1	55	9.4	0.105
W596903		163	5.6	14.1	55	9.4	0.102
W596904		125	6.4	12.8	59	7.6	0.093
W596905		160	6.1	13.8	82	9.1	0.097
W596906		137	7.1	12.1	58	8.6	0.171

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20227062

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE WH20230278

Project: Klaza

P.O. No.: Batch 52

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230278

Sample Description	Method	WEI-21	Ag-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	1	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W596907		3.84			0.29	7.82	32.3	170	1.61	1.51	2.63	0.33	28.5	16.0	13	12.45
W596908		3.92			0.34	6.15	28.1	120	1.22	1.56	1.98	0.59	34.1	31.0	14	10.20
W596909		3.62			0.28	7.58	30.8	190	1.47	1.22	2.76	0.50	38.5	16.0	13	12.55
W596910		3.13			0.48	6.74	31.9	130	1.11	1.34	1.85	1.54	25.0	15.7	15	9.65
W596911		0.26			10.10	6.56	1940	220	1.44	5.42	1.68	36.6	43.2	11.8	27	16.60
W596912		3.77			0.77	7.64	46.5	150	1.43	2.17	3.90	1.27	41.0	23.8	11	25.7
W596913		4.11			5.29	8.17	94.5	150	1.61	17.50	2.31	13.95	47.4	13.7	5	12.70
W596914		4.54			0.51	7.72	30.9	280	1.47	1.08	3.84	0.84	50.3	17.8	7	14.50
W596915		0.26		1.505	93.8	4.73	4020	350	1.04	50.9	1.53	200	29.1	62.7	35	10.15
W596916		3.32			0.57	8.02	26.4	580	1.60	1.39	3.27	0.32	41.7	13.3	8	10.50
W596917		4.24			0.59	8.05	9.4	240	1.54	1.50	3.07	0.27	40.5	33.9	9	11.55
W596918		3.69			1.15	8.50	35.2	270	1.48	1.91	2.54	0.45	47.6	14.7	9	9.52
W596919		3.94			1.58	7.37	97.4	100	1.57	3.82	2.97	1.96	45.2	19.8	7	14.65
W596920		<0.02			1.56	7.71	96.3	120	1.53	4.13	3.02	1.86	47.1	19.4	8	14.30
W596921		5.00	838		>100	7.60	99.4	160	1.49	1.27	3.47	0.97	46.4	23.9	8	16.15
W596922		3.90			3.96	8.24	127.5	440	1.29	1.46	2.14	0.60	50.3	21.2	15	11.65
W596923		2.61			46.8	6.01	472	40	0.98	17.95	2.59	67.4	35.0	16.3	16	8.10
W596924		5.19			0.08	0.07	0.5	20	0.05	0.04	32.2	0.05	0.90	0.8	1	0.06
W596925		2.57			4.34	7.46	501	150	1.21	2.32	3.37	2.04	42.5	21.5	16	14.00
W596926		3.38			1.59	7.60	162.0	340	1.40	1.49	4.06	3.79	44.6	20.6	12	30.3
W596927		2.04			8.36	8.03	187.0	440	1.46	39.3	3.28	1.04	50.8	19.4	15	32.1
W596928		3.17			3.38	8.43	113.0	460	1.41	2.83	2.88	0.63	58.0	26.6	19	18.40
W596929		5.72			3.27	7.77	15.2	1260	1.57	3.78	2.02	0.73	47.3	13.8	16	26.5
W596930		4.28			3.28	7.63	18.2	500	1.58	2.89	2.27	1.04	54.3	31.0	18	24.0
W596931		5.30			4.24	7.45	10.5	300	1.54	2.67	2.46	0.96	53.3	28.3	16	20.9
W596932		6.72			1.84	8.07	8.5	390	1.71	6.93	2.62	1.11	41.9	16.7	15	13.85
W596933		7.94			3.01	7.86	12.5	140	1.02	7.98	2.31	0.98	47.5	27.0	16	12.65
W596934		3.53			3.13	8.04	14.8	170	1.27	7.85	2.08	1.08	52.9	30.5	18	14.50
W596935		7.63			3.88	8.35	16.6	180	1.17	12.00	1.93	1.39	60.2	22.6	18	14.75
W596936		2.59			1.78	7.54	16.9	140	1.15	7.00	2.80	1.37	39.9	26.9	17	9.73
W596937		4.64			3.16	7.19	11.7	290	1.15	13.65	2.61	0.88	32.9	16.0	16	15.30
W596938		5.29			4.18	8.04	11.4	100	1.24	19.00	1.15	1.41	52.2	26.1	22	8.90
W596939		3.71			3.35	7.26	27.9	110	1.26	11.20	2.51	3.33	60.5	22.2	15	11.35
W596940		6.26			5.43	7.95	17.8	240	1.19	38.9	2.01	0.71	49.0	20.3	17	17.95
W596941		4.96			2.76	8.17	19.4	270	1.57	4.24	2.97	0.61	58.5	23.0	16	28.1
W596942		8.49			2.78	8.16	19.8	1360	1.61	3.68	3.75	0.54	53.6	18.7	17	27.7
W596943		7.17			3.06	9.04	27.1	1320	1.53	4.50	1.80	0.31	65.3	17.2	18	32.0
W596944		5.15			4.58	7.28	30.1	90	1.18	26.1	2.98	0.50	45.1	18.2	15	18.20
W596945		3.14			3.97	9.68	9.2	750	1.56	16.20	1.58	0.27	84.0	16.2	17	30.2
W596946		6.89			2.65	8.90	10.3	1310	1.21	2.72	1.18	0.24	54.3	16.1	19	19.10

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W596907		50.2	4.83	17.65	0.13	0.4	0.059	2.91	14.7	24.6	1.59	346	3.48	0.74	2.5	6.4
W596908		27.0	5.66	12.45	0.11	0.4	0.064	2.37	17.5	14.2	1.01	366	30.1	0.29	2.5	8.5
W596909		18.2	4.44	15.00	0.13	0.5	0.073	2.89	19.2	20.4	1.40	850	5.58	0.05	3.1	7.3
W596910		23.2	5.92	11.35	0.09	0.5	0.112	2.72	12.8	11.1	1.09	628	9.79	0.06	2.7	6.7
W596911		191.0	5.83	15.30	0.12	1.0	0.658	2.78	22.9	41.5	0.74	1990	9.11	0.06	6.6	17.3
W596912		277	5.85	18.40	0.14	0.6	0.108	3.02	20.0	22.1	1.20	633	2.92	0.19	4.3	5.7
W596913		109.0	6.89	19.45	0.16	0.5	0.453	3.79	24.2	3.6	1.06	578	1.08	0.05	4.8	3.1
W596914		193.0	5.46	20.1	0.14	0.4	0.093	2.62	24.8	19.6	1.42	583	2.13	0.33	4.6	3.4
W596915		1290	11.55	11.95	0.10	0.8	4.37	1.95	15.1	28.6	0.54	1940	17.50	0.15	4.5	16.1
W596916		239	5.92	20.2	0.13	0.5	0.206	2.44	20.2	22.6	1.65	394	1.52	1.12	6.4	3.8
W596917		269	6.19	19.50	0.14	0.4	0.116	2.69	19.3	21.2	1.73	288	5.48	1.59	5.5	4.4
W596918		298	5.11	21.4	0.13	0.5	0.106	2.13	22.9	21.1	1.05	363	3.03	0.66	4.8	4.6
W596919		168.5	6.94	18.80	0.15	0.4	0.137	3.42	22.3	5.1	1.32	1100	1.98	0.04	3.9	3.8
W596920		172.0	7.10	18.20	0.15	0.4	0.131	3.49	23.5	4.8	1.37	1140	2.10	0.04	4.0	4.0
W596921		1870	5.78	18.00	0.13	0.4	0.166	2.54	24.3	14.3	1.51	1420	2.61	0.17	4.6	184.0
W596922		286	5.60	16.35	0.11	0.4	0.277	2.16	26.6	31.9	0.93	1020	3.06	0.03	4.5	6.9
W596923		482	13.20	13.90	0.19	0.4	1.040	2.51	18.6	11.4	1.12	2040	4.77	0.03	3.4	11.0
W596924		2.5	0.17	0.24	<0.05	<0.1	<0.005	0.02	1.1	0.9	1.32	94	0.10	0.02	0.2	0.3
W596925		508	6.76	18.00	0.13	0.6	0.360	3.47	20.8	4.9	1.55	2590	3.14	0.04	4.1	6.2
W596926		290	5.52	19.05	0.11	0.5	0.196	2.68	23.4	11.8	1.65	1470	3.18	0.04	4.5	6.5
W596927		1870	6.39	20.5	0.12	0.6	0.648	1.88	26.0	26.4	1.32	886	2.04	0.03	5.5	8.0
W596928		701	5.95	23.3	0.13	0.7	0.404	1.55	29.3	31.3	1.14	623	1.21	0.03	6.4	7.0
W596929		877	3.97	18.90	0.11	0.6	0.401	2.91	26.4	27.6	1.62	843	23.9	1.22	5.2	7.9
W596930		1340	5.18	16.50	0.14	0.5	0.422	2.71	29.8	27.6	1.68	1020	18.50	1.05	4.8	11.1
W596931		1620	6.08	19.05	0.13	0.5	0.542	2.67	28.1	26.5	1.57	1040	26.6	1.02	4.4	11.3
W596932		797	4.41	17.20	0.10	0.5	0.325	3.89	21.1	25.3	1.49	948	10.30	0.99	3.5	8.7
W596933		1500	6.15	17.15	0.12	0.4	0.579	4.01	24.4	25.3	1.70	1090	14.70	0.09	2.6	11.0
W596934		1510	6.53	19.15	0.11	0.5	0.627	4.05	26.1	29.2	1.83	1100	15.70	0.11	2.8	12.5
W596935		1530	5.48	17.65	0.13	0.5	0.573	3.97	30.8	26.9	1.72	1110	31.5	0.17	3.1	9.6
W596936		628	6.00	16.45	0.11	0.4	0.297	3.37	19.2	22.5	1.50	1300	13.70	0.08	2.7	10.0
W596937		515	4.69	15.95	0.11	0.5	0.319	3.52	18.4	16.0	0.67	561	51.2	0.07	3.1	5.5
W596938		695	7.11	17.90	0.12	0.6	0.477	4.01	26.2	15.1	0.72	530	44.9	0.07	4.2	10.2
W596939		1140	5.58	16.00	0.13	0.5	0.544	3.62	28.8	20.3	1.10	790	78.2	0.07	3.1	10.3
W596940		1320	5.66	17.15	0.10	0.5	0.600	3.28	26.3	26.0	1.30	709	70.3	0.06	3.4	8.7
W596941		1030	5.30	18.80	0.13	0.5	0.471	2.41	32.1	37.0	1.87	1120	13.45	0.17	4.4	9.5
W596942		1110	4.69	18.50	0.09	0.6	0.410	2.15	29.2	36.4	1.81	1040	10.15	0.44	5.9	8.8
W596943		1250	4.62	19.45	0.11	0.7	0.385	2.30	35.6	34.8	1.22	833	14.10	0.24	6.4	8.9
W596944		797	6.74	16.55	0.10	0.5	0.279	2.49	23.7	19.8	0.94	726	18.75	0.08	4.9	9.2
W596945		1110	4.39	21.5	0.11	0.7	0.329	2.36	45.2	30.6	1.06	511	15.70	0.10	7.2	9.4
W596946		1250	4.23	16.50	0.13	0.6	0.384	2.70	28.5	23.6	0.72	765	39.4	0.13	5.0	6.9

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W596907		1290	26.4	133.5	<0.002	4.24	3.89	14.2	2	3.2	197.5	0.17	0.31	5.83	0.223	2.25
W596908		960	35.3	113.5	0.002	5.25	7.14	13.7	3	4.1	85.3	0.17	0.45	5.29	0.178	1.99
W596909		1360	34.2	129.0	<0.002	4.04	5.94	16.9	3	3.4	70.0	0.20	0.34	7.88	0.217	2.94
W596910		1010	89.7	116.5	<0.002	5.50	5.80	10.9	3	6.0	72.6	0.18	0.37	5.29	0.198	2.30
W596911		500	1750	153.5	<0.002	3.37	49.7	9.7	1	6.1	77.7	0.49	0.21	11.15	0.202	2.42
W596912		1410	58.0	113.5	<0.002	4.66	12.10	18.4	3	7.7	198.0	0.26	0.63	6.14	0.309	2.44
W596913		1600	388	167.5	<0.002	6.89	4.84	15.5	8	22.1	58.1	0.28	8.50	5.92	0.327	3.25
W596914		1490	59.2	110.0	<0.002	4.15	8.81	16.0	3	8.7	184.5	0.26	0.25	6.17	0.309	2.53
W596915		370	9440	105.0	0.002	>10.0	236	7.0	2	10.6	89.8	0.34	1.99	6.61	0.145	1.79
W596916		1560	19.7	81.4	<0.002	2.68	5.80	16.4	2	6.0	465	0.37	0.11	6.23	0.374	1.96
W596917		1490	16.9	92.3	<0.002	3.54	2.93	18.4	2	5.8	499	0.32	0.14	5.29	0.365	2.06
W596918		1580	27.2	89.6	<0.002	3.86	15.80	19.0	2	8.5	235	0.29	0.19	7.77	0.353	2.01
W596919		1360	106.5	170.0	<0.002	6.64	15.00	16.6	7	11.8	89.2	0.25	1.24	7.24	0.271	3.70
W596920		1380	107.5	183.0	<0.002	6.51	14.50	16.8	7	11.8	88.1	0.24	1.33	7.73	0.276	3.68
W596921		1340	43.1	143.5	0.044	4.41	47.1	18.9	3	8.8	132.5	0.28	0.27	6.50	0.318	3.33
W596922		1600	30.6	120.0	<0.002	3.85	119.5	20.2	4	8.3	66.7	0.26	0.37	7.28	0.374	2.81
W596923		1180	3960	119.0	0.003	>10.0	113.5	18.2	21	15.9	50.6	0.19	2.32	4.06	0.316	2.60
W596924		60	2.5	0.6	<0.002	0.03	0.29	0.2	2	<0.2	77.3	<0.05	<0.05	0.08	0.005	<0.02
W596925		1450	158.0	203	<0.002	6.62	150.5	23.8	7	10.5	70.5	0.23	1.00	5.15	0.389	4.44
W596926		1420	235	157.5	<0.002	4.30	78.8	21.3	4	9.3	118.5	0.27	0.58	6.55	0.357	3.01
W596927		1560	85.9	101.0	0.002	3.89	110.5	23.7	4	10.2	135.5	0.33	0.48	6.45	0.427	2.05
W596928		1680	37.0	67.5	<0.002	3.14	60.4	26.6	3	9.9	130.5	0.33	0.56	6.08	0.482	1.60
W596929		1120	23.4	121.0	0.005	1.74	4.81	17.3	2	9.8	398	0.37	0.72	10.70	0.310	2.85
W596930		1150	19.6	127.5	0.003	2.64	7.80	17.1	3	9.6	329	0.34	0.58	10.20	0.298	2.90
W596931		1100	21.1	118.5	0.008	2.91	5.91	17.0	2	7.2	409	0.33	0.59	10.05	0.272	2.67
W596932		970	28.0	150.0	0.004	2.76	4.95	12.8	1	6.1	352	0.26	1.20	9.99	0.213	4.08
W596933		1180	22.1	169.0	0.004	4.53	9.47	15.3	3	10.4	61.1	0.17	0.42	8.42	0.214	3.46
W596934		1220	21.7	183.5	0.005	4.47	11.25	17.3	3	10.7	66.7	0.18	0.45	9.28	0.219	3.98
W596935		1210	27.4	188.5	0.008	4.01	13.60	16.4	3	11.4	103.0	0.21	0.42	9.78	0.224	3.56
W596936		1160	22.3	139.0	0.005	4.46	4.71	14.4	5	14.6	74.5	0.18	0.40	8.48	0.193	2.32
W596937		940	31.9	168.0	0.019	3.74	3.86	15.2	4	19.5	105.0	0.20	0.69	9.18	0.194	2.67
W596938		1190	61.2	205	0.016	5.59	2.61	17.2	5	19.4	31.7	0.28	1.26	9.81	0.252	3.33
W596939		1110	38.4	155.5	0.033	4.48	5.51	14.8	5	13.7	121.0	0.23	1.01	8.54	0.203	3.16
W596940		1160	30.7	155.5	0.020	3.61	12.35	15.2	5	15.4	58.3	0.24	1.64	9.69	0.243	2.75
W596941		1180	25.8	111.0	0.007	3.04	7.34	16.7	2	11.2	124.0	0.30	0.48	10.40	0.289	2.30
W596942		1240	31.3	80.5	0.017	2.09	8.31	16.7	1	6.6	228	0.39	0.44	10.15	0.350	2.42
W596943		1310	32.3	108.0	0.009	2.13	24.5	18.8	2	10.3	139.0	0.45	0.48	12.65	0.381	2.46
W596944		1060	36.9	98.3	0.007	5.33	18.75	14.8	3	9.7	100.5	0.30	0.73	8.97	0.282	2.14
W596945		1390	19.2	117.0	0.004	3.12	7.22	19.6	2	10.8	65.0	0.45	0.73	13.65	0.382	2.53
W596946		1260	19.3	110.5	0.031	1.98	10.10	15.6	2	9.4	88.4	0.33	0.36	10.80	0.336	2.25

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Finalized Date: 27-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230278

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W596907		1.9	148	3.8	11.5	70	8.9	0.225
W596908		2.5	125	6.0	10.8	65	8.0	0.129
W596909		1.9	143	6.1	13.1	79	11.0	0.106
W596910		1.9	111	6.6	9.2	174	12.4	0.210
W596911		4.2	64	5.4	11.3	2800	28.5	0.635
W596912		5.0	153	7.7	15.0	151	14.7	0.236
W596913		2.2	139	17.0	14.5	1100	10.4	0.442
W596914		2.6	140	10.5	15.3	103	10.4	0.106
W596915		4.5	50	4.4	9.7	>10000	22.7	3.04
W596916		2.5	151	4.1	16.1	97	11.8	0.143
W596917		2.4	161	3.4	17.8	72	9.4	0.186
W596918		2.7	162	7.1	18.2	79	11.4	0.202
W596919		2.1	137	10.3	15.4	178	9.0	0.077
W596920		2.2	139	10.4	15.7	170	9.6	0.075
W596921		2.5	153	5050	16.8	130	9.8	0.125
W596922		3.3	169	38.7	17.6	111	9.8	0.104
W596923		2.2	150	219	13.6	5690	8.6	0.444
W596924		0.2	1	0.3	1.9	11	1.3	<0.005
W596925		2.6	200	12.0	16.5	202	15.2	0.209
W596926		4.6	176	13.9	18.0	408	11.2	0.135
W596927		5.0	193	55.4	18.4	128	13.8	1.555
W596928		3.8	215	30.7	19.3	101	17.9	0.178
W596929		2.8	140	4.6	18.6	204	11.3	0.125
W596930		3.4	139	5.0	24.1	231	10.2	0.112
W596931		3.6	138	4.2	22.5	230	9.2	0.171
W596932		2.2	107	4.1	21.1	198	10.2	0.083
W596933		2.3	141	4.2	24.2	237	8.3	0.080
W596934		2.7	142	4.6	26.0	243	9.8	0.067
W596935		2.4	140	5.3	30.1	250	9.5	0.090
W596936		2.4	122	10.6	32.5	264	9.1	0.050
W596937		2.8	120	13.5	18.1	105	9.4	0.061
W596938		3.9	141	10.4	21.4	172	11.2	0.057
W596939		3.3	133	9.0	27.7	244	10.2	0.067
W596940		2.9	135	9.9	19.9	170	8.9	0.107
W596941		3.0	143	5.7	23.7	249	10.6	0.062
W596942		3.9	145	4.2	20.9	200	11.4	0.108
W596943		6.8	159	5.3	22.2	139	13.2	0.092
W596944		4.0	122	5.1	17.5	155	9.7	0.071
W596945		3.6	165	5.3	21.9	85	12.6	0.114
W596946		2.8	146	5.4	20.4	92	11.0	0.104

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230278

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	Au-AA24	ME-MS61	ME-OG62
	Zn-OG62			

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Finalized Date: 26-DEC-2020
Account: ROCKHA

CERTIFICATE WH20230279

Project: Klaza

P.O. No.: BATCH 53

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20230279

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598451		7.75		0.34	7.35	24.7	5850	1.24	0.43	2.09	0.45	44.9	13.6	11	11.90	76.6
W598452		4.21		0.28	7.95	21.4	760	1.06	0.41	3.52	0.41	24.1	17.3	5	18.85	102.5
W598453		4.10		0.57	7.74	59.5	840	1.53	0.18	4.31	0.42	44.3	15.6	12	84.6	67.7
W598454		3.21		0.45	8.28	87.7	1010	1.16	0.23	3.38	0.35	43.2	20.1	7	23.8	43.0
W598455		4.31		0.33	7.59	44.4	1890	1.15	0.21	2.00	0.30	55.2	8.5	11	10.85	36.9
W598456		0.26		10.35	6.71	1970	290	1.49	5.66	1.80	37.7	50.9	12.5	29	17.50	198.5
W598457		4.61		0.20	8.67	12.5	1310	1.36	0.10	5.33	0.24	49.2	20.3	11	6.84	78.0
W598458		1.55		0.76	5.85	80.9	670	1.05	0.07	10.25	0.29	41.9	14.3	7	37.1	110.0
W598459		3.30		0.22	8.27	37.2	1160	1.23	0.11	5.34	0.35	39.6	18.6	12	7.71	21.4
W598460		4.62		0.15	8.42	12.1	1400	1.17	0.11	5.18	0.21	42.9	19.2	14	6.93	41.1
W598461		1.50		0.90	8.07	153.0	1100	1.43	0.09	5.31	0.47	46.6	19.6	12	19.35	29.9
W598462		4.69		0.34	8.50	11.1	1360	1.17	0.09	5.70	0.34	42.9	18.8	15	10.85	91.8
W598463		0.26	1.520	96.7	4.79	4040	1630	1.11	48.7	1.62	202	33.2	63.7	37	9.64	1310
W598464		4.56		0.95	8.22	90.7	1370	1.23	0.15	4.12	0.46	38.3	70.2	14	13.85	87.3
W598465		4.85		0.99	7.56	248	1530	1.31	0.08	2.77	1.45	38.9	43.7	14	25.0	56.6
W598466		4.71		0.83	8.23	11.2	1320	1.23	0.07	5.80	0.32	38.4	20.2	14	8.51	530
W598467		4.65		0.08	8.51	8.1	1380	1.08	0.06	5.85	0.16	44.3	20.9	15	11.10	19.9
W598468		1.75		2.17	7.92	585	630	1.34	0.07	4.63	1.13	43.3	20.0	11	25.4	79.6
W598469		<0.02		2.08	7.83	560	640	1.38	0.06	4.62	1.06	42.7	19.4	13	24.6	78.0
W598470		4.72		0.10	8.69	10.7	1240	1.38	0.06	4.60	0.17	41.6	18.5	12	15.80	43.2
W598471		3.76		0.10	8.48	6.6	1350	1.22	0.05	5.12	0.23	40.4	18.7	13	10.55	45.5
W598472		4.87		0.11	8.56	7.7	1300	1.39	0.06	5.27	0.22	44.2	19.0	11	8.43	65.3
W598473		1.75		0.55	7.51	1630	900	1.17	0.07	6.31	0.69	41.7	16.9	11	14.45	26.8
W598474		5.38		<0.01	0.12	1.2	30	0.08	0.01	33.7	0.02	1.10	0.5	2	0.07	1.8
W598475		4.72		0.13	8.13	12.4	1440	0.98	0.06	5.20	0.23	40.9	17.8	14	10.25	51.0
W598476		4.55		0.20	8.11	11.8	1220	1.14	0.06	4.91	0.20	47.7	20.1	10	15.50	37.5
W598477		4.33		0.19	8.00	21.0	1090	1.23	0.04	4.95	0.23	47.5	18.2	10	16.90	26.9
W598478		3.36		0.16	8.33	25.5	1090	1.23	0.04	6.58	0.26	47.2	19.4	10	16.00	36.0
W598479		2.12		0.59	7.87	703	950	1.09	0.07	6.50	2.95	43.9	18.2	10	21.3	25.0
W598480		5.56		0.10	8.59	12.5	1230	1.14	0.17	6.38	0.31	43.6	20.0	11	4.02	23.8
W598481		5.41		0.12	8.52	9.8	1190	1.09	0.22	5.98	0.33	43.1	22.6	14	5.65	26.1
W598482		3.43		0.51	8.67	16.3	1180	1.14	0.29	5.87	0.48	42.0	47.2	14	6.03	128.5
W598483		1.28		0.47	8.30	9.6	1150	1.05	0.27	5.40	0.46	36.3	40.5	15	5.52	92.4
W598484		5.56		0.15	8.21	8.4	1090	0.95	0.08	5.82	0.33	38.1	21.3	12	5.26	38.9
W598485		3.43		0.21	8.06	34.6	1180	1.02	0.05	5.83	0.26	41.2	22.1	12	16.90	22.2
W598486		1.64		29.8	5.72	5080	220	0.99	0.05	6.71	35.5	29.9	16.6	6	19.10	139.5
W598487		5.23		0.22	8.13	18.3	1090	0.98	0.05	5.60	0.32	38.8	20.4	15	11.30	22.9
W598488		4.90		0.16	8.30	7.6	1280	0.98	0.04	5.81	0.43	38.0	22.6	12	5.37	22.9
W598489		1.66		0.48	7.71	218	1760	1.03	0.03	6.63	0.92	36.7	20.0	12	12.50	22.3
W598490		4.66		0.19	8.51	287	1270	1.01	0.03	6.11	0.39	39.8	22.7	13	9.26	21.8

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 26-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230279

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598451		2.86	13.80	0.08	0.6	0.031	2.13	21.8	48.3	0.54	943	10.95	0.08	9.2	4.5	630
W598452		3.98	16.30	0.06	0.4	0.047	0.72	11.6	50.3	1.30	1020	3.91	0.03	4.3	3.5	660
W598453		3.93	18.20	0.07	1.1	0.055	1.31	22.7	59.1	1.64	1180	3.21	0.03	6.4	4.8	790
W598454		5.33	19.20	0.08	1.0	0.073	0.79	19.8	70.5	1.39	2010	2.56	0.02	6.2	2.6	1200
W598455		3.23	18.80	0.08	0.9	0.042	1.60	26.8	98.1	0.78	1120	3.27	0.02	9.0	3.9	610
W598456		6.11	15.70	0.10	1.1	0.737	2.94	26.4	41.9	0.77	2020	9.06	0.07	6.9	18.1	520
W598457		5.97	21.7	0.09	0.8	0.072	1.60	22.5	23.9	1.92	1130	2.60	2.51	8.0	4.1	1420
W598458		4.43	15.55	0.07	0.5	0.045	1.24	20.2	37.8	1.41	1930	6.84	0.52	4.4	2.5	940
W598459		5.69	21.3	0.09	0.7	0.068	1.52	17.1	21.1	2.07	1300	2.33	2.42	6.5	4.1	1290
W598460		5.81	20.8	0.09	0.7	0.063	1.71	19.2	21.6	1.97	1110	2.06	2.43	7.7	4.3	1190
W598461		5.39	19.85	0.10	0.7	0.066	2.06	22.6	16.4	1.80	1660	2.48	1.49	7.1	4.2	1120
W598462		5.99	20.8	0.09	0.6	0.085	1.76	19.9	20.1	1.96	1220	2.93	2.37	7.2	4.4	1170
W598463		12.05	12.10	0.09	0.8	4.35	2.02	16.3	31.1	0.56	1950	17.25	0.16	4.7	15.6	380
W598464		6.42	20.9	0.07	0.7	0.083	1.68	16.9	19.8	1.59	1180	4.04	1.81	6.7	5.0	1090
W598465		5.34	18.20	0.09	0.6	0.057	1.65	18.0	46.4	1.22	1430	3.15	0.41	5.6	5.0	920
W598466		5.69	18.75	0.08	0.8	0.121	1.57	17.5	17.8	1.86	1140	2.73	2.24	6.4	3.9	1160
W598467		6.26	20.7	0.09	0.8	0.062	1.56	20.3	21.1	2.03	1120	2.51	2.36	6.8	4.6	1240
W598468		5.14	18.95	0.10	0.8	0.060	1.86	20.5	31.3	1.67	2950	3.09	0.52	6.3	3.8	1090
W598469		5.25	18.60	0.08	0.7	0.062	1.86	20.0	30.3	1.65	2960	2.41	0.50	6.0	4.1	1050
W598470		5.64	21.6	0.09	0.9	0.068	1.60	18.7	22.4	1.95	1090	2.40	1.71	6.9	4.0	1240
W598471		6.12	21.7	0.07	1.0	0.066	1.51	18.0	14.9	2.04	1160	6.61	2.53	6.8	3.8	1270
W598472		5.80	22.5	0.07	1.0	0.071	1.47	19.5	22.4	1.79	1190	5.21	1.99	7.1	3.4	1320
W598473		5.61	17.95	0.07	0.7	0.054	1.88	19.8	25.0	2.20	2760	2.93	1.09	5.6	3.4	1080
W598474		0.16	0.37	<0.05	0.1	<0.005	0.04	1.2	1.1	1.56	99	0.06	0.05	0.2	0.8	60
W598475		6.09	21.3	0.06	0.8	0.068	1.62	17.8	9.5	1.87	1200	4.34	2.49	6.5	4.3	1300
W598476		5.58	21.3	0.08	1.0	0.073	1.50	21.2	20.1	2.22	1200	2.55	1.41	7.1	3.4	1240
W598477		5.32	20.6	0.09	0.9	0.056	1.45	21.6	19.8	2.31	1200	3.86	1.06	6.5	3.3	1220
W598478		5.66	20.1	0.08	0.9	0.067	1.29	22.7	23.1	1.91	1420	6.24	1.49	5.8	3.4	1270
W598479		5.69	19.50	0.06	0.8	0.073	1.92	21.0	16.4	2.13	2530	2.53	1.30	5.3	3.2	1110
W598480		5.93	22.0	0.08	0.8	0.081	1.19	19.6	12.9	2.23	1280	1.71	2.54	5.8	3.4	1400
W598481		6.43	21.0	0.07	0.9	0.078	1.26	19.6	13.6	2.78	1220	2.31	2.45	6.7	3.6	1420
W598482		6.96	21.3	0.08	1.0	0.125	1.21	20.2	13.7	2.77	1260	3.51	2.34	6.6	4.0	1140
W598483		6.59	21.0	0.08	1.0	0.107	1.14	16.4	12.6	2.49	1200	3.25	2.20	6.2	5.7	1110
W598484		6.17	20.5	0.07	0.8	0.071	1.08	16.5	10.3	2.53	1310	3.74	2.29	5.3	3.3	1420
W598485		6.13	19.90	0.09	0.7	0.072	1.35	18.4	14.1	2.29	1530	2.59	1.79	5.2	3.3	1360
W598486		7.00	14.35	0.08	0.5	0.074	1.83	13.3	17.6	2.43	7340	2.33	0.14	3.5	2.1	950
W598487		6.32	19.90	0.08	0.7	0.070	1.21	16.6	11.3	2.30	1520	5.01	2.06	4.6	3.1	1280
W598488		6.50	21.9	0.09	0.7	0.073	1.17	16.7	11.3	2.62	1410	2.33	2.39	4.7	3.0	1390
W598489		6.36	19.05	0.09	0.7	0.061	1.65	16.3	11.4	2.60	2710	2.20	1.43	3.7	3.1	1240
W598490		6.43	22.4	0.09	0.8	0.066	1.31	18.2	9.0	2.51	1560	1.94	2.15	4.6	3.0	1350

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Project: Klaza

Finalized Date: 26-DEC-2020
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CERTIFICATE OF ANALYSIS WH20230279

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598451		20.9	59.1	<0.002	0.30	30.0	5.1	<1	4.4	189.0	0.72	<0.05	15.10	0.206	1.18	3.6
W598452		27.5	21.0	0.005	0.27	47.3	13.8	1	2.9	298	0.27	<0.05	3.42	0.357	0.59	1.6
W598453		27.5	73.2	0.010	0.33	27.2	14.6	<1	2.3	235	0.41	<0.05	6.51	0.376	1.23	3.2
W598454		34.7	26.3	<0.002	0.35	28.1	19.2	<1	3.1	256	0.37	<0.05	4.84	0.554	1.18	4.7
W598455		50.1	68.4	0.002	0.16	24.5	7.4	<1	2.5	193.5	0.71	<0.05	16.15	0.272	1.80	5.4
W598456		1830	172.0	<0.002	3.46	50.5	9.5	<1	6.5	79.9	0.52	0.22	12.40	0.210	2.76	4.9
W598457		16.9	44.8	<0.002	0.02	2.08	21.8	<1	1.6	746	0.46	<0.05	5.33	0.594	0.43	1.4
W598458		16.7	64.3	<0.002	0.02	10.05	13.6	<1	6.9	274	0.25	<0.05	3.81	0.365	0.77	2.5
W598459		19.9	36.7	<0.002	0.07	2.68	19.6	<1	1.6	738	0.36	<0.05	4.75	0.547	0.52	1.4
W598460		15.5	45.1	<0.002	0.01	1.75	19.8	1	1.6	778	0.46	<0.05	4.88	0.535	0.56	1.3
W598461		30.3	87.7	<0.002	0.40	11.85	20.2	<1	1.5	573	0.41	<0.05	5.75	0.496	1.52	1.7
W598462		18.1	53.8	<0.002	0.03	2.80	20.2	<1	1.5	800	0.41	<0.05	4.91	0.533	0.77	1.3
W598463		9610	114.5	<0.002	>10.0	246	7.1	1	11.0	94.8	0.36	2.01	8.00	0.149	1.91	4.9
W598464		36.4	42.6	0.004	0.15	26.4	19.0	<1	1.4	665	0.38	<0.05	4.11	0.503	1.06	2.0
W598465		60.4	71.6	<0.002	0.24	34.4	17.6	<1	1.2	433	0.32	<0.05	3.97	0.462	1.87	3.0
W598466		13.2	37.6	0.010	0.11	2.51	18.2	<1	1.9	805	0.37	<0.05	4.01	0.516	0.47	2.3
W598467		12.8	42.5	<0.002	0.01	2.88	20.7	<1	1.4	856	0.38	<0.05	4.73	0.541	0.48	1.6
W598468		102.5	81.3	0.003	0.95	38.1	19.1	<1	5.0	346	0.36	<0.05	5.14	0.478	2.27	1.8
W598469		100.5	82.1	<0.002	0.95	37.1	18.3	<1	4.9	339	0.36	<0.05	4.87	0.473	2.28	1.7
W598470		12.6	44.9	<0.002	0.04	5.11	19.7	<1	1.5	662	0.38	<0.05	4.93	0.531	0.49	1.7
W598471		13.4	34.8	0.014	0.02	1.44	18.2	<1	1.4	879	0.38	0.05	4.27	0.505	0.53	1.4
W598472		15.1	34.5	0.008	0.01	5.86	19.6	1	1.6	762	0.41	<0.05	4.92	0.531	0.40	1.6
W598473		42.8	86.1	0.003	0.68	22.7	16.9	1	1.6	551	0.31	<0.05	4.21	0.433	1.15	1.5
W598474		0.9	1.4	<0.002	<0.01	0.10	0.2	1	<0.2	81.7	<0.05	<0.05	0.11	0.005	0.02	0.2
W598475		13.1	35.6	0.005	0.07	2.56	17.6	<1	1.3	839	0.38	<0.05	4.01	0.517	0.53	1.3
W598476		12.7	39.0	0.002	0.04	3.15	18.9	<1	2.4	599	0.39	<0.05	4.97	0.518	0.53	2.5
W598477		13.3	45.7	0.005	0.06	3.94	18.7	<1	1.3	546	0.36	<0.05	5.32	0.497	0.55	2.0
W598478		12.7	45.4	0.014	0.07	4.03	19.2	<1	1.9	716	0.33	<0.05	4.67	0.509	0.45	1.7
W598479		95.3	86.9	<0.002	0.60	9.70	18.7	<1	2.1	615	0.29	<0.05	3.58	0.451	1.16	1.2
W598480		15.0	24.4	<0.002	0.13	1.18	19.9	<1	2.2	1015	0.29	<0.05	3.39	0.530	0.30	1.2
W598481		13.9	30.1	<0.002	0.09	0.66	21.4	1	2.0	968	0.37	<0.05	4.38	0.571	0.39	1.6
W598482		15.6	45.6	0.002	0.85	1.11	25.1	1	1.6	945	0.35	0.07	4.38	0.642	0.46	1.8
W598483		16.2	34.9	<0.002	0.80	1.23	23.0	1	1.6	906	0.40	<0.05	3.99	0.590	0.47	1.5
W598484		15.1	26.1	0.002	0.10	1.31	21.9	1	1.9	949	0.36	<0.05	3.35	0.574	0.43	1.3
W598485		15.0	59.4	0.002	0.21	5.93	21.8	1	1.4	799	0.36	<0.05	3.75	0.534	0.84	1.5
W598486		1795	100.0	0.003	4.39	85.3	14.9	1	3.1	217	0.23	<0.05	2.73	0.374	2.36	1.9
W598487		17.7	40.3	0.008	0.10	4.69	22.1	<1	1.5	874	0.30	0.05	3.72	0.550	0.54	1.4
W598488		23.9	27.8	0.003	0.01	0.64	23.7	1	1.2	1005	0.32	<0.05	3.03	0.600	0.55	1.0
W598489		40.7	79.7	0.002	0.77	7.74	20.5	1	1.8	668	0.24	<0.05	2.80	0.512	1.29	1.0
W598490		19.5	40.1	<0.002	0.11	6.64	23.8	1	1.1	920	0.30	<0.05	3.28	0.591	0.84	1.2

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 26-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230279

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598451		48	6.5	13.0	86	17.7	0.014
W598452		125	3.6	16.4	127	14.1	0.013
W598453		122	7.2	17.7	96	33.0	0.019
W598454		203	13.8	18.9	100	25.6	0.013
W598455		65	4.3	15.4	75	22.6	0.008
W598456		65	6.0	12.8	2850	29.6	0.639
W598457		184	1.0	21.8	112	21.5	0.015
W598458		113	3.1	22.7	79	14.0	0.022
W598459		179	0.8	19.2	118	17.4	0.005
W598460		185	1.4	20.1	102	18.6	0.009
W598461		174	1.5	20.4	114	18.0	0.023
W598462		189	1.3	20.9	118	16.4	0.027
W598463		50	4.8	10.2	>10000	23.0	3.02
W598464		188	0.9	17.9	129	19.0	0.012
W598465		169	2.6	17.3	228	17.6	0.039
W598466		182	0.9	19.2	112	21.2	0.108
W598467		193	0.7	20.4	107	23.4	<0.005
W598468		170	2.2	19.6	133	21.0	0.086
W598469		167	2.1	19.0	126	21.6	0.079
W598470		190	1.3	19.6	102	27.5	0.008
W598471		179	0.6	18.7	104	30.0	0.007
W598472		182	4.0	20.9	107	30.7	0.013
W598473		154	2.4	19.1	124	21.5	0.172
W598474		2	<0.1	2.2	4	1.8	<0.005
W598475		182	1.0	19.6	103	24.5	0.007
W598476		180	3.7	22.5	95	28.7	0.005
W598477		177	6.8	22.0	95	22.4	0.006
W598478		190	1.7	22.3	110	22.7	0.006
W598479		176	1.9	20.5	272	20.7	0.127
W598480		201	0.5	20.8	115	22.9	<0.005
W598481		229	0.6	20.5	115	23.9	0.007
W598482		204	1.1	21.2	132	27.2	0.007
W598483		191	0.9	19.2	128	26.7	0.006
W598484		224	0.6	19.0	118	22.2	0.008
W598485		207	0.8	19.3	115	21.3	0.012
W598486		146	4.5	14.3	3900	15.4	1.085
W598487		204	0.8	18.3	119	19.4	0.007
W598488		224	0.6	19.7	139	20.7	0.012
W598489		189	1.7	18.8	155	22.1	0.064
W598490		222	1.1	20.9	130	22.0	0.008

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 26-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230279

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE WH20230280

Project: Klaza

P.O. No.: BATCH 54

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230280

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598491		3.29		1.72	7.70	307	1110	1.04	0.06	6.12	1.15	30.6	20.4	13	10.80	25.6
W598492		3.43		1.45	8.04	1195	1080	1.65	0.07	5.59	1.25	36.0	18.1	12	24.2	22.6
W598493		1.93		8.11	6.57	1605	670	1.34	0.05	5.17	8.01	32.3	16.4	11	23.9	42.9
W598494		4.42		0.25	7.82	41.8	1200	1.12	0.05	5.70	0.35	33.0	20.6	12	10.70	18.9
W598495		1.77		1.78	7.86	852	490	1.36	0.05	5.08	1.26	36.3	15.8	12	20.5	40.4
W598496		5.16		0.01	0.15	0.6	20	0.12	0.01	33.1	0.02	0.99	0.8	2	0.08	1.0
W598497		1.44		2.87	8.08	773	390	1.50	0.06	4.44	2.91	36.8	15.9	12	19.20	32.7
W598498		4.98		0.11	8.10	5.4	1240	1.07	0.06	6.36	0.28	32.6	23.5	13	4.18	17.9
W598499		4.98		0.11	8.48	5.0	1380	1.08	0.06	6.09	0.22	34.6	21.3	15	5.02	19.4
W598500		2.22		2.15	7.15	1380	920	1.07	0.05	6.26	1.28	34.5	19.5	10	11.85	19.1
W598501		4.78		0.09	8.28	6.0	1240	1.03	0.05	6.27	0.21	38.1	23.4	15	6.83	14.6
W598502		5.43		0.07	8.38	3.7	1100	1.19	0.05	6.18	0.24	37.8	15.4	20	4.08	11.9
W598503		1.85		1.90	7.27	4970	690	1.34	0.05	6.62	12.80	37.7	13.0	16	14.75	20.5
W598504		0.26	1.495	94.8	4.73	4150	1430	1.00	50.7	1.60	198.5	32.0	58.6	35	8.51	1315
W598505		5.54		0.15	8.20	10.2	1060	1.27	0.08	5.83	0.37	38.3	14.6	19	5.46	13.9
W598506		1.82		0.18	6.98	56.4	600	1.17	0.05	9.76	0.55	39.3	12.0	13	15.00	11.8
W598507		5.64		0.11	8.20	3.8	1190	1.34	0.07	5.49	0.20	41.7	13.4	20	5.91	13.4
W598508		5.44		0.17	7.89	33.3	1050	1.39	0.06	5.17	0.39	38.5	12.8	21	12.35	22.8
W598509		2.71		0.11	7.97	5.3	1190	1.41	0.07	5.34	0.23	41.0	14.3	20	4.88	23.6
W598510		3.67		0.14	7.83	16.6	1180	1.32	0.07	5.29	0.67	37.1	13.7	21	3.91	13.8
W598511		5.61		0.23	8.07	16.7	1170	1.34	0.06	5.49	0.99	41.2	13.8	21	4.99	38.4
W598512		2.03		1.49	7.67	209	640	1.44	0.40	5.46	5.39	46.3	14.1	18	20.8	129.0
W598513		0.81		1.50	7.46	259	670	1.45	0.15	5.58	4.71	41.6	13.7	16	18.90	108.5
W598514		5.21		0.14	7.65	8.2	1200	1.33	0.09	5.38	0.25	36.3	13.8	21	4.14	27.0
W598515		5.53		0.13	8.09	4.4	1230	1.47	0.07	5.24	0.27	45.5	14.5	20	4.48	32.1
W598516		1.36		0.42	8.18	58.4	810	1.36	0.06	5.39	0.57	49.7	13.7	20	13.35	37.9
W598517		5.16		0.18	8.21	14.2	1220	1.30	0.15	5.38	0.36	47.4	15.4	20	4.79	29.2
W598518		5.22		0.65	8.34	267	1160	1.28	0.07	5.18	0.70	49.6	14.0	21	9.25	54.7
W598519		<0.02		0.75	8.20	277	1130	1.30	0.07	5.15	0.94	50.6	14.3	19	9.03	60.3
W598520		1.89		15.15	8.00	187.0	980	1.45	0.08	5.36	11.60	47.9	14.3	20	18.35	131.0
W598521		4.92		0.23	8.44	21.7	1390	1.36	0.10	5.23	0.27	51.9	14.3	21	13.15	24.1
W598522		5.46		0.25	8.05	6.3	1310	1.73	0.11	5.15	0.17	50.0	12.9	20	16.25	18.9
W598523		2.01		2.52	7.68	896	1130	1.81	0.17	4.31	11.55	44.1	13.8	20	28.8	63.7
W598524		0.26		10.50	6.36	1900	220	1.48	5.86	1.73	38.7	49.4	11.1	28	19.05	197.0
W598525		2.98		0.21	8.00	11.7	1180	1.41	0.08	5.35	0.37	46.6	14.2	20	8.55	17.3
W598526		3.79		2.16	8.13	1565	1250	1.47	0.15	4.58	6.79	48.9	13.3	21	25.9	39.5
W598527		1.45		3.02	7.00	330	900	1.69	0.09	6.03	5.62	44.9	16.3	15	34.2	137.5
W598528		5.64		0.24	8.44	14.4	1200	1.46	0.10	5.16	0.42	51.0	14.1	22	20.6	47.4
W598529		2.77		0.18	8.27	22.2	1240	1.42	0.14	5.23	0.47	53.0	15.8	19	16.95	18.2
W598530		1.93		0.15	7.62	12.0	870	1.28	0.10	5.28	0.26	41.2	11.3	19	30.9	12.6

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CERTIFICATE OF ANALYSIS WH20230280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598491		5.95	17.95	0.10	0.6	0.070	1.50	13.2	10.7	2.38	1750	2.51	1.93	3.4	2.5	1060
W598492		5.96	19.50	0.08	0.7	0.066	2.03	16.1	20.8	1.86	5030	1.85	0.90	3.5	2.5	1240
W598493		5.44	15.20	0.08	0.5	0.061	2.29	15.2	34.7	1.88	7260	3.03	0.03	2.9	2.7	940
W598494		6.14	18.90	0.09	0.8	0.066	1.46	14.5	15.0	2.32	1780	1.50	1.94	2.6	2.3	1230
W598495		5.93	17.05	0.08	0.6	0.060	1.73	17.5	48.4	1.86	4680	1.74	0.32	3.4	2.3	1170
W598496		0.19	0.54	0.05	0.1	<0.005	0.04	1.0	1.5	1.68	110	<0.05	0.07	0.6	<0.2	60
W598497		5.68	18.50	0.07	0.7	0.070	1.75	17.2	44.8	1.78	4110	2.39	0.04	4.3	2.2	1230
W598498		6.62	19.75	0.09	0.8	0.069	1.15	14.8	12.5	2.56	1420	2.06	2.51	4.2	2.5	1400
W598499		6.92	20.1	0.10	0.8	0.067	1.31	15.3	14.5	2.82	1340	1.86	2.53	4.3	3.1	1210
W598500		6.16	16.75	0.06	0.7	0.063	1.65	16.6	21.6	2.43	5010	1.57	1.11	3.7	2.4	1070
W598501		6.84	19.55	0.06	0.9	0.069	1.12	17.6	14.3	2.61	1380	1.62	2.41	4.3	3.2	1140
W598502		6.31	19.80	0.07	1.1	0.065	1.21	17.6	11.1	2.27	1400	1.73	2.60	5.6	4.2	1250
W598503		6.76	16.70	0.07	1.0	0.070	1.81	18.6	10.5	2.07	6510	1.98	1.29	4.4	4.2	1010
W598504		12.05	10.35	<0.05	0.6	4.11	2.02	16.1	27.9	0.56	1980	14.60	0.16	3.8	14.4	370
W598505		6.13	20.0	0.08	1.2	0.068	1.28	18.0	8.5	2.20	1300	1.76	2.43	5.8	4.1	1250
W598506		5.48	15.90	0.07	0.8	0.055	1.09	19.5	45.4	2.32	2360	1.33	0.33	4.6	3.1	1020
W598507		5.86	19.45	0.09	0.9	0.066	1.52	19.3	15.5	2.08	1240	2.36	2.56	6.8	3.9	1150
W598508		5.94	18.65	0.07	0.8	0.063	1.49	17.4	31.5	1.95	1340	3.38	1.91	6.4	4.3	1100
W598509		5.87	20.3	0.10	0.9	0.064	1.49	19.2	15.2	2.21	1220	2.60	2.54	7.0	7.2	1150
W598510		6.23	19.70	0.06	0.9	0.066	1.46	16.5	16.5	2.22	1280	4.00	2.56	6.8	5.2	1140
W598511		5.95	19.85	0.07	0.9	0.066	1.49	19.3	15.0	2.14	1280	5.55	2.57	6.9	4.3	1180
W598512		5.80	18.20	0.08	0.8	0.075	2.25	22.4	15.4	1.99	2900	3.35	1.13	6.0	4.8	1080
W598513		5.64	17.65	0.10	0.8	0.078	2.21	19.7	14.2	2.00	2880	5.73	1.22	5.9	3.8	1040
W598514		6.15	19.20	0.10	0.9	0.069	1.49	16.2	14.0	2.04	1300	2.55	2.55	7.0	4.7	1130
W598515		5.68	22.8	0.21	1.0	0.072	1.65	20.5	13.9	2.15	1180	5.07	2.60	7.2	6.5	1130
W598516		5.74	21.6	0.23	0.9	0.063	1.83	23.8	27.5	1.88	2370	9.23	1.80	6.7	5.4	1100
W598517		5.81	22.4	0.19	0.9	0.078	1.54	21.4	13.9	2.15	1240	5.08	2.55	7.4	4.6	1130
W598518		6.08	21.7	0.22	0.9	0.072	1.56	24.7	19.4	2.05	1440	5.29	2.30	6.7	5.1	1160
W598519		5.67	22.3	0.23	0.9	0.065	1.56	25.3	20.1	2.07	1410	4.96	2.24	6.8	4.7	1130
W598520		6.09	22.0	0.20	0.9	0.085	2.06	22.5	17.6	1.95	2440	59.9	1.73	6.9	5.2	1160
W598521		6.13	22.8	0.22	0.9	0.069	1.63	25.1	17.9	2.04	1440	3.47	2.34	6.9	5.4	1140
W598522		5.27	21.1	0.22	1.0	0.069	1.55	23.4	21.1	1.51	1300	3.96	2.21	6.4	5.0	1090
W598523		5.92	22.6	0.23	0.9	0.087	1.88	20.2	105.0	1.51	1660	3.72	1.16	6.7	5.2	1110
W598524		5.93	16.00	0.17	1.0	0.693	2.82	25.9	44.5	0.74	2010	8.75	0.07	6.1	16.9	500
W598525		5.66	22.6	0.21	0.9	0.074	1.51	20.9	12.0	1.98	1330	15.40	2.54	7.0	4.8	1110
W598526		6.27	22.0	0.22	0.9	0.088	2.31	23.6	37.4	1.62	2800	5.54	1.51	6.7	4.9	1130
W598527		5.14	19.05	0.21	0.8	0.080	2.25	22.4	88.9	1.94	2170	3.63	0.12	5.9	4.6	930
W598528		6.05	22.6	0.26	0.9	0.077	1.63	24.8	22.8	1.97	1300	15.35	2.41	7.2	5.7	1150
W598529		5.78	22.8	0.22	0.9	0.186	1.67	25.5	15.2	2.02	1510	3.71	2.38	7.0	4.7	1160
W598530		5.35	17.95	0.16	0.7	0.057	1.43	19.7	23.1	1.83	1420	2.82	1.63	5.6	4.1	1070

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598491		118.5	39.5	<0.002	0.24	8.55	22.3	<1	1.0	780	0.21	<0.05	2.78	0.489	0.84	1.0
W598492		33.4	68.2	<0.002	1.32	28.4	21.5	1	1.2	475	0.22	<0.05	3.39	0.548	2.30	1.3
W598493		192.0	119.0	0.003	2.60	53.9	20.4	1	3.1	157.0	0.18	<0.05	3.58	0.404	2.34	1.6
W598494		16.8	35.6	<0.002	0.35	8.12	21.8	1	1.0	806	0.18	<0.05	2.97	0.548	0.79	1.1
W598495		48.1	80.4	<0.002	1.54	39.0	20.6	1	3.0	293	0.23	<0.05	3.14	0.541	1.64	1.9
W598496		0.5	1.2	<0.002	0.01	0.10	0.2	1	<0.2	79.0	0.05	<0.05	0.13	0.006	<0.02	0.3
W598497		74.1	59.1	<0.002	1.30	44.4	22.0	<1	1.5	169.5	0.27	<0.05	3.25	0.557	2.22	1.3
W598498		12.8	18.1	<0.002	0.03	1.20	22.7	1	1.0	998	0.24	<0.05	2.51	0.614	0.40	0.9
W598499		11.5	25.9	<0.002	0.03	0.44	22.2	1	1.2	1025	0.25	<0.05	2.79	0.588	0.40	0.9
W598500		107.0	78.4	<0.002	1.26	18.05	22.6	1	1.7	540	0.21	<0.05	2.75	0.517	1.12	0.9
W598501		9.7	28.0	<0.002	0.02	0.93	24.5	<1	1.1	986	0.24	<0.05	2.86	0.564	0.27	1.0
W598502		11.1	24.5	<0.002	0.01	0.49	20.0	1	1.0	866	0.34	<0.05	3.34	0.611	0.26	1.1
W598503		108.0	89.3	<0.002	2.28	22.1	17.8	1	1.5	525	0.25	<0.05	3.43	0.474	1.06	1.2
W598504		9560	110.5	<0.002	>10.0	248	6.4	2	9.6	94.8	0.29	1.79	6.94	0.148	1.55	3.9
W598505		15.6	31.4	<0.002	0.05	1.99	19.6	1	1.0	831	0.35	<0.05	3.91	0.591	0.30	1.4
W598506		18.6	45.8	<0.002	0.11	20.7	14.6	1	1.0	479	0.27	<0.05	3.40	0.474	0.44	1.4
W598507		11.4	40.0	<0.002	0.01	0.84	18.6	<1	1.3	773	0.42	<0.05	4.70	0.585	0.36	1.6
W598508		16.3	43.0	<0.002	0.11	5.25	18.1	<1	1.3	671	0.38	<0.05	4.42	0.563	0.52	1.5
W598509		12.4	38.3	<0.002	0.01	0.53	19.7	<1	1.3	781	0.41	<0.05	4.61	0.584	0.39	1.7
W598510		22.9	31.6	<0.002	0.04	1.06	17.9	1	1.3	780	0.41	<0.05	4.11	0.588	0.38	1.6
W598511		26.0	37.5	<0.002	0.05	1.59	18.9	1	1.3	784	0.42	<0.05	4.77	0.590	0.34	1.7
W598512		139.0	121.5	<0.002	1.13	8.89	18.5	1	2.0	426	0.35	0.06	4.97	0.504	1.26	2.0
W598513		128.5	97.7	<0.002	1.24	10.15	17.3	1	2.1	452	0.33	<0.05	4.57	0.502	1.19	1.8
W598514		12.9	30.6	<0.002	0.04	1.28	17.4	1	1.3	761	0.42	<0.05	4.14	0.574	0.37	1.4
W598515		15.6	38.6	<0.002	0.01	0.89	20.0	<1	1.4	758	0.46	<0.05	4.89	0.570	0.36	1.8
W598516		41.7	81.0	<0.002	0.39	5.11	20.0	<1	2.1	526	0.40	<0.05	5.51	0.530	0.76	2.1
W598517		16.2	41.2	<0.002	0.11	2.33	19.7	1	1.4	753	0.44	<0.05	5.03	0.577	0.35	1.6
W598518		101.5	55.9	0.002	0.18	5.76	19.6	1	1.7	729	0.42	<0.05	5.36	0.550	0.44	1.8
W598519		121.0	57.6	<0.002	0.20	6.34	19.6	1	1.8	707	0.42	<0.05	5.34	0.542	0.45	1.9
W598520		319	80.5	0.007	0.95	16.85	19.2	1	2.2	622	0.40	<0.05	5.02	0.546	1.29	1.9
W598521		19.5	61.8	0.002	0.14	4.73	20.6	1	1.4	756	0.43	<0.05	5.66	0.546	0.60	2.2
W598522		43.3	51.8	<0.002	0.01	5.94	18.6	1	2.2	770	0.41	<0.05	5.59	0.504	0.51	2.1
W598523		244	60.2	<0.002	0.43	20.5	19.5	<1	2.4	568	0.41	<0.05	4.54	0.522	0.72	1.9
W598524		1750	164.0	<0.002	3.42	48.0	9.4	1	6.1	81.5	0.47	0.28	10.85	0.209	2.24	4.2
W598525		20.1	43.2	0.004	0.03	2.40	20.0	1	1.4	778	0.44	<0.05	5.07	0.550	0.38	1.8
W598526		358	95.7	<0.002	0.88	11.30	19.2	1	2.4	586	0.41	<0.05	5.44	0.539	1.15	2.5
W598527		196.5	108.5	<0.002	1.04	57.1	16.6	1	2.2	268	0.39	<0.05	4.87	0.455	1.38	3.6
W598528		17.4	59.0	0.003	0.03	6.65	20.7	<1	1.4	755	0.44	<0.05	5.63	0.569	0.47	2.1
W598529		15.1	65.4	0.003	0.31	3.34	20.7	<1	1.3	746	0.43	<0.05	5.44	0.542	0.56	2.0
W598530		16.1	49.9	<0.002	0.06	6.91	15.9	<1	1.2	589	0.35	<0.05	4.25	0.512	0.54	1.9

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 28-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598491		189	1.0	17.9	191	13.5	0.012
W598492		218	3.4	18.9	199	16.3	0.120
W598493		163	5.9	16.7	615	12.7	0.537
W598494		212	0.8	17.7	121	18.4	0.010
W598495		197	2.4	18.3	178	17.1	0.295
W598496		1	1.4	2.2	4	2.1	<0.005
W598497		204	7.7	19.0	293	20.6	0.064
W598498		223	0.5	18.7	124	26.4	0.005
W598499		220	0.4	17.5	115	23.8	0.006
W598500		184	2.3	19.2	155	19.8	0.357
W598501		209	0.4	19.9	108	25.8	<0.005
W598502		184	0.5	22.3	125	32.4	<0.005
W598503		148	2.1	20.1	1300	31.7	1.815
W598504		49	3.9	8.8	>10000	19.1	2.94
W598505		177	0.5	21.6	141	36.1	<0.005
W598506		143	2.1	23.2	141	26.3	0.006
W598507		167	0.5	23.2	116	20.6	0.005
W598508		167	1.0	21.3	122	18.9	0.012
W598509		167	0.6	22.8	118	18.9	<0.005
W598510		169	0.6	21.0	147	20.6	<0.005
W598511		171	0.6	22.3	174	22.2	0.005
W598512		150	1.9	23.6	454	18.9	0.065
W598513		151	1.9	22.2	435	18.5	0.081
W598514		165	0.6	21.6	118	21.0	<0.005
W598515		162	0.5	22.4	115	25.5	<0.005
W598516		154	1.7	21.8	121	20.6	0.035
W598517		163	0.6	22.5	120	21.4	<0.005
W598518		158	0.8	22.1	144	19.8	0.040
W598519		157	0.7	23.1	156	19.1	0.037
W598520		157	2.1	21.2	979	20.8	0.266
W598521		160	1.2	23.4	121	20.7	0.010
W598522		150	0.8	21.2	156	24.3	0.010
W598523		158	2.6	21.7	718	19.9	0.248
W598524		62	5.1	11.3	2840	29.2	0.614
W598525		161	0.5	22.6	122	20.0	0.006
W598526		157	1.4	21.9	582	19.2	0.921
W598527		130	3.3	21.8	326	16.2	0.179
W598528		164	0.7	24.2	132	20.3	0.007
W598529		160	0.6	24.1	139	19.7	0.007
W598530		148	1.0	18.9	120	14.9	0.008

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230280

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE WH20230281

Project: Klaza

P.O. No.: Batch 56

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 28-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230281

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596947		7.12		2.15	8.34	7.2	1670	2.03	2.78	2.57	0.22	61.3	10.5	19	33.3	576
W596948		8.03		2.19	8.16	8.4	1440	1.79	1.65	2.68	0.25	42.6	15.1	21	28.0	733
W596949		8.29		2.19	8.20	6.6	1040	1.69	2.72	1.87	0.19	52.4	12.5	18	30.2	733
W596950		5.84		4.45	6.68	60.2	50	1.15	15.55	2.00	0.45	37.6	24.1	16	8.68	767
W596951		0.26		10.25	6.39	1930	190	1.49	5.29	1.74	37.5	47.6	10.8	29	18.10	198.5
W596952		2.61		2.28	7.92	30.3	1030	1.47	2.77	2.22	0.39	59.3	14.1	18	11.25	740
W596953		8.42		2.78	8.60	31.9	780	1.72	10.05	1.04	0.40	60.8	18.4	19	10.70	824
W596954		7.55		2.12	7.89	47.0	410	1.50	11.90	2.11	0.36	49.4	16.6	18	9.91	518
W596955		7.62		2.98	5.85	99.4	190	1.42	20.9	3.33	0.44	39.6	25.9	11	22.5	509
W596956		0.26	1.505	90.1	4.54	3920	140	0.94	53.8	1.54	193.0	31.9	61.1	36	9.24	1280
W596957		8.20		5.51	6.35	64.1	80	1.26	47.0	1.46	1.72	44.5	32.9	13	5.41	612
W596958		6.75		4.13	5.94	69.1	490	1.21	21.3	0.73	2.68	46.8	42.0	12	8.10	444
W596959		6.71		5.89	7.50	76.3	120	1.42	10.40	0.46	2.22	54.3	40.1	13	4.88	1225
W596960		3.24		4.22	7.33	50.9	220	1.39	7.27	0.96	1.46	49.3	23.5	12	9.02	969
W596961		6.99		3.05	6.81	58.4	340	1.62	7.00	1.21	0.34	58.4	28.5	13	23.4	695
W596962		<0.02		3.09	6.74	57.1	430	1.56	7.55	1.19	0.34	58.2	28.5	13	22.8	689
W596963		7.15		1.93	8.08	36.1	290	1.37	3.24	1.78	0.24	48.4	15.9	14	11.55	639
W596964		6.25		2.11	8.39	36.8	340	1.42	4.53	1.65	0.32	60.9	22.7	16	9.63	717
W596965		8.01		1.70	7.77	13.2	360	1.85	10.80	1.96	0.25	65.2	16.5	15	8.59	400
W596966		6.14		2.98	8.04	23.8	220	1.55	12.70	1.66	0.39	58.8	18.2	15	9.07	732
W596967		5.19		1.93	8.16	15.8	300	1.79	4.42	2.06	0.43	60.2	18.5	15	10.85	552
W596968		7.80		1.99	7.55	8.2	450	1.84	7.06	2.26	0.12	61.9	15.3	15	8.87	564
W596969		9.54		2.14	7.97	26.4	380	1.92	5.89	2.44	0.32	59.8	20.6	17	10.20	976
W596970		7.77		2.69	8.51	24.2	300	1.56	7.71	1.66	0.41	59.5	21.1	17	8.58	916
W596971		5.85		2.60	8.00	44.0	160	1.89	11.45	2.23	0.48	59.6	18.9	15	7.88	755
W596972		4.42		1.83	7.90	23.8	350	1.89	9.70	2.15	0.13	60.0	15.7	15	7.78	531
W596973		5.02		1.40	7.58	29.0	210	2.07	5.78	1.80	0.13	58.8	17.4	15	8.60	422
W596974		4.04		3.81	7.97	29.0	260	1.74	14.90	1.92	0.37	53.6	22.1	18	8.17	1130
W596975		4.25		4.08	8.50	42.8	540	1.38	14.35	1.28	0.37	51.9	30.9	20	7.64	1260
W596976		2.92		1.43	8.05	58.9	330	1.94	5.32	2.44	0.33	67.7	14.6	16	7.17	397
W596977		3.92		2.20	8.15	26.4	220	1.77	13.25	1.76	0.23	59.5	17.0	15	7.87	349
W596978		5.29		2.06	8.67	24.6	260	1.57	5.86	1.45	0.21	58.3	18.7	18	9.47	672
W596979		5.38		0.74	7.43	14.5	350	2.13	4.58	3.29	0.09	64.3	11.5	16	7.56	173.0
W596980		2.33		0.88	7.79	13.0	330	2.05	4.97	3.43	0.06	71.0	13.6	16	8.08	170.5
W596981		5.33		0.53	7.64	5.1	410	2.11	5.35	3.25	0.12	70.1	9.3	17	8.86	40.0
W596982		5.24		1.93	8.16	40.2	330	1.72	5.44	2.36	0.21	78.6	14.3	17	12.55	631
W596983		5.08		5.03	8.29	32.8	530	1.78	18.40	1.84	0.28	68.3	12.9	16	12.75	1290
W596984		4.18		2.88	8.69	17.8	680	1.51	5.40	1.70	0.26	73.8	12.5	18	11.90	1130
W596985		5.11		3.73	7.47	82.0	190	1.58	6.60	2.82	1.90	85.5	26.6	13	24.5	1130
W596986		5.42		0.07	0.10	2.5	20	0.06	0.06	34.1	0.15	1.11	0.6	2	0.09	4.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230281

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596947		4.32	19.65	0.27	0.7	0.265	2.63	31.3	27.6	1.80	830	15.50	1.45	7.1	7.5	1220
W596948		4.35	20.1	0.24	0.5	0.320	3.33	20.4	24.4	1.69	944	21.4	1.55	6.2	10.3	950
W596949		4.54	20.1	0.23	0.6	0.356	3.30	26.3	29.7	1.83	792	19.35	0.85	5.6	8.8	1240
W596950		10.70	17.40	0.21	0.4	0.372	3.34	18.0	15.9	0.89	715	86.5	0.06	3.0	8.7	1080
W596951		5.98	15.45	0.18	1.0	0.658	2.86	25.1	41.8	0.74	2000	8.99	0.07	6.0	16.5	490
W596952		5.30	18.45	0.20	0.6	0.496	3.00	29.6	25.4	1.04	1290	87.5	0.05	4.7	13.0	1170
W596953		6.00	19.90	0.20	0.6	0.437	1.92	31.6	38.5	0.75	1260	79.1	0.04	5.9	9.3	1240
W596954		5.50	19.55	0.19	0.6	0.406	2.19	23.7	30.7	0.87	1090	6.09	0.05	5.4	10.4	1210
W596955		7.08	13.50	0.17	0.5	0.345	1.38	21.5	38.5	1.25	1350	41.2	0.03	4.3	8.9	840
W596956		11.70	12.15	0.14	0.7	4.45	1.97	15.9	30.8	0.54	1920	17.05	0.15	4.1	14.4	360
W596957		10.15	16.15	0.18	0.5	0.300	2.66	22.3	20.0	0.72	1780	21.3	0.05	3.6	7.9	1200
W596958		12.40	14.90	0.20	0.4	0.337	2.58	23.2	18.6	0.50	1800	16.80	0.05	3.4	9.7	1070
W596959		7.78	16.70	0.21	1.0	0.297	3.77	26.8	13.6	0.54	736	16.95	0.08	3.9	8.2	1050
W596960		6.03	17.00	0.22	0.7	0.356	3.35	24.2	20.5	0.72	899	39.3	0.08	4.5	7.5	1020
W596961		5.75	16.50	0.19	0.8	0.310	3.01	30.2	21.9	0.77	1000	43.2	0.05	3.9	9.3	1040
W596962		5.78	16.10	0.20	0.7	0.308	2.99	29.6	22.0	0.76	1020	45.8	0.05	4.0	9.2	1050
W596963		4.70	16.50	0.17	0.7	0.338	3.47	23.7	18.4	0.93	541	172.0	0.08	3.8	6.4	1250
W596964		5.83	18.85	0.24	0.6	0.374	3.75	30.8	19.6	0.96	550	46.7	0.08	4.1	8.1	1280
W596965		5.01	17.75	0.24	0.8	0.349	3.76	33.6	15.2	1.00	632	28.6	0.07	5.6	7.2	1260
W596966		5.75	18.90	0.25	0.5	0.416	3.98	30.4	15.2	0.98	639	44.5	0.06	4.8	7.3	1240
W596967		5.17	16.85	0.14	0.7	0.367	3.68	30.2	17.6	0.98	681	33.6	0.11	5.3	9.1	1260
W596968		4.13	17.80	0.13	1.3	0.339	3.16	31.1	16.0	0.93	490	27.2	0.17	5.5	7.8	1250
W596969		4.37	19.10	0.13	1.1	0.381	3.52	29.1	18.4	0.84	508	28.0	0.09	6.4	8.7	1330
W596970		5.13	17.80	0.15	0.7	0.399	4.20	29.8	18.5	1.12	494	29.5	0.07	5.6	8.2	1280
W596971		5.62	17.65	0.15	0.8	0.320	3.49	29.3	19.6	1.13	525	41.1	0.15	4.7	7.4	1250
W596972		4.21	18.35	0.12	1.2	0.263	3.20	29.7	21.2	1.03	504	31.1	0.18	5.3	7.1	1280
W596973		4.46	18.40	0.13	1.2	0.288	3.17	27.7	23.5	0.96	430	17.20	0.14	7.0	7.9	1340
W596974		5.30	18.25	0.12	0.6	0.435	4.10	25.1	16.8	1.03	511	22.6	0.08	5.1	8.6	1290
W596975		4.47	18.60	0.12	0.5	0.445	4.29	26.1	15.2	0.91	381	39.1	0.08	4.4	9.4	1260
W596976		3.99	18.15	0.11	1.7	0.194	2.39	34.2	31.4	1.03	485	14.80	0.12	5.1	7.2	1290
W596977		5.21	20.9	0.13	1.2	0.236	3.78	28.6	19.6	1.05	410	34.4	0.10	4.8	7.9	1290
W596978		5.36	19.65	0.12	0.6	0.361	4.17	28.3	18.4	1.01	419	86.3	0.08	5.4	7.5	1310
W596979		3.73	19.05	0.13	2.5	0.169	2.67	31.7	17.9	0.98	380	10.40	0.55	6.3	7.3	1360
W596980		4.14	19.45	0.12	2.4	0.183	2.79	35.9	18.2	1.09	418	14.10	0.47	7.2	7.7	1360
W596981		3.63	20.0	0.12	2.8	0.169	2.87	34.0	14.7	0.94	433	4.04	0.33	7.1	7.5	1460
W596982		4.43	18.85	0.15	1.9	0.306	2.81	40.2	22.2	0.90	442	13.40	0.10	5.6	7.7	1330
W596983		5.16	19.35	0.12	0.6	0.530	3.81	35.1	20.7	0.93	591	13.60	0.07	4.7	7.7	1250
W596984		5.20	19.75	0.14	0.5	0.433	4.20	36.7	20.6	1.00	523	52.2	0.07	4.6	8.3	1330
W596985		5.52	16.55	0.14	0.5	0.298	3.16	44.9	23.8	0.81	477	64.9	0.13	5.1	7.9	1120
W596986		0.18	0.30	0.05	<0.1	0.005	0.04	1.1	1.1	1.43	96	0.23	0.03	0.1	1.6	60

***** See Appendix Page for comments regarding this certificate *****

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(1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230281

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596947		27.0	112.0	0.005	1.74	5.43	18.5	2	7.5	447	0.47	0.37	11.65	0.382	2.25	3.3
W596948		25.8	96.6	0.015	1.53	2.92	17.6	2	4.6	634	0.42	0.22	7.86	0.407	2.42	3.2
W596949		21.5	130.5	0.007	2.01	4.39	18.8	2	10.1	378	0.37	0.40	9.72	0.351	2.64	4.3
W596950		43.8	147.5	0.028	9.81	25.6	13.0	13	12.6	52.6	0.19	1.16	7.63	0.215	2.52	3.3
W596951		1765	159.0	<0.002	3.46	46.7	9.1	1	5.9	80.3	0.46	0.23	10.45	0.213	2.17	4.4
W596952		20.2	138.5	0.044	2.30	13.50	18.9	2	10.7	57.2	0.32	0.30	10.05	0.317	2.54	4.6
W596953		28.2	89.6	0.045	2.86	23.8	19.4	3	8.1	57.2	0.40	0.70	10.90	0.353	1.60	4.8
W596954		28.8	79.0	0.005	3.08	25.3	17.9	2	5.6	73.4	0.36	0.76	9.66	0.310	1.71	4.7
W596955		32.1	81.0	0.040	4.74	74.4	12.3	4	7.8	76.0	0.26	0.76	7.81	0.240	1.71	6.9
W596956		9220	111.5	0.002	>10.0	238	6.8	2	10.0	86.6	0.31	1.79	6.69	0.149	1.59	4.4
W596957		30.3	118.0	0.023	7.15	27.6	13.7	7	12.5	30.3	0.22	1.50	7.32	0.213	1.87	5.9
W596958		22.2	121.0	0.047	9.41	39.7	12.6	8	12.2	23.4	0.20	1.25	7.20	0.212	1.86	5.6
W596959		9.4	159.5	0.007	6.13	14.75	12.9	6	13.8	20.2	0.24	0.62	7.40	0.236	2.44	3.4
W596960		23.4	159.5	0.020	4.31	67.2	13.6	4	15.6	34.3	0.28	0.51	8.38	0.265	2.43	4.2
W596961		19.2	155.0	0.056	3.56	64.2	12.4	4	9.7	38.5	0.25	0.55	8.94	0.227	2.61	8.7
W596962		19.7	151.5	0.049	3.46	64.4	12.4	4	10.0	37.9	0.27	0.51	8.86	0.233	2.55	8.7
W596963		27.7	143.5	0.108	3.56	26.8	14.2	2	5.3	55.6	0.25	0.59	9.50	0.244	2.47	3.1
W596964		19.2	179.0	0.035	4.49	16.60	16.3	4	12.2	50.5	0.27	0.62	11.10	0.259	2.72	2.9
W596965		13.2	197.5	0.015	3.65	12.15	12.9	4	7.2	43.4	0.37	0.60	10.05	0.292	3.39	3.1
W596966		17.0	210	0.029	4.31	16.20	17.8	4	10.2	38.7	0.30	0.81	10.75	0.290	3.31	3.1
W596967		21.6	195.0	0.024	3.75	12.95	15.6	3	7.4	62.1	0.36	0.57	12.40	0.266	3.62	3.5
W596968		20.1	163.5	0.014	2.85	6.87	12.7	2	6.0	91.3	0.37	0.63	11.35	0.232	3.04	2.9
W596969		41.9	170.5	0.011	3.08	19.50	16.0	3	7.5	77.6	0.42	0.62	11.70	0.301	3.37	3.5
W596970		20.8	226	0.019	3.95	13.60	17.9	5	10.4	41.7	0.35	1.00	13.20	0.285	3.89	3.2
W596971		15.9	182.5	0.029	4.69	33.3	15.3	4	8.4	82.4	0.29	1.47	12.35	0.227	3.43	3.3
W596972		14.3	165.5	0.019	2.99	26.0	13.8	2	9.2	96.7	0.33	1.27	11.15	0.231	3.01	3.0
W596973		17.0	156.5	0.011	3.47	26.6	16.3	3	8.4	74.9	0.46	0.79	11.10	0.316	2.81	3.4
W596974		13.4	191.5	0.019	4.22	22.5	19.4	4	11.0	43.9	0.31	1.07	11.70	0.285	3.71	3.3
W596975		17.5	213	0.024	3.31	31.0	17.9	3	11.2	31.0	0.27	1.09	11.45	0.264	3.64	3.0
W596976		32.1	112.5	0.007	3.00	51.5	11.1	2	5.4	85.7	0.32	0.77	11.05	0.210	2.06	3.5
W596977		31.8	190.5	0.025	4.40	18.10	15.5	3	9.9	54.6	0.30	1.23	12.55	0.224	3.19	2.9
W596978		11.0	232	0.051	4.19	19.80	19.2	3	11.2	44.9	0.33	1.14	12.75	0.278	3.66	3.1
W596979		11.4	108.0	0.008	3.13	2.70	8.8	1	5.5	165.0	0.40	0.81	10.15	0.229	2.10	3.3
W596980		11.4	127.5	0.009	3.44	3.32	9.5	2	7.3	156.0	0.44	0.77	10.40	0.260	2.20	3.4
W596981		11.4	109.5	0.002	2.95	2.88	7.3	1	5.6	110.0	0.43	1.66	9.71	0.239	2.22	3.6
W596982		17.6	138.0	0.005	3.39	29.1	11.8	3	8.7	84.8	0.36	1.55	10.90	0.245	2.55	3.6
W596983		11.7	217	0.005	3.50	10.65	17.9	3	13.2	57.9	0.29	2.37	11.40	0.268	3.79	3.1
W596984		10.3	236	0.013	3.51	9.52	18.1	3	16.6	58.0	0.26	0.68	11.60	0.277	3.69	2.9
W596985		92.1	163.0	0.018	4.94	39.0	16.3	4	15.6	203	0.31	0.93	10.35	0.275	3.54	6.1
W596986		5.7	1.2	<0.002	0.01	0.24	0.2	1	<0.2	83.6	<0.05	<0.05	0.10	0.005	0.02	0.3

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Finalized Date: 28-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230281

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596947		143	3.0	21.2	153	12.7	0.074
W596948		162	3.3	15.0	152	9.9	0.069
W596949		149	4.3	18.2	144	10.8	0.074
W596950		123	7.5	15.4	130	8.3	0.122
W596951		62	4.9	11.5	2890	29.1	0.658
W596952		149	13.0	22.9	445	10.8	0.082
W596953		152	9.0	20.9	194	10.7	0.083
W596954		144	6.3	17.9	165	11.0	0.049
W596955		102	9.1	21.0	228	11.4	0.118
W596956		47	4.4	8.7	>10000	22.3	2.91
W596957		114	15.6	29.9	390	9.3	0.166
W596958		105	15.3	31.9	420	10.6	0.161
W596959		109	12.1	20.5	173	36.1	0.202
W596960		118	17.3	23.3	225	21.5	0.111
W596961		107	9.9	25.0	200	19.7	0.067
W596962		107	10.2	24.8	199	19.0	0.147
W596963		127	7.2	16.1	98	16.8	0.064
W596964		136	10.1	18.8	102	14.4	0.090
W596965		111	7.7	17.2	70	20.2	0.082
W596966		140	11.1	20.9	92	10.0	0.103
W596967		128	10.7	21.2	119	17.1	0.054
W596968		107	7.2	16.6	69	39.9	0.052
W596969		132	9.0	19.1	106	30.9	0.094
W596970		143	13.7	21.3	89	14.3	0.119
W596971		125	10.0	18.3	82	21.6	0.103
W596972		114	8.5	18.4	57	35.3	0.040
W596973		128	8.3	18.2	74	38.0	0.038
W596974		148	14.9	20.6	77	12.2	0.069
W596975		148	14.3	18.5	83	12.0	0.090
W596976		97	5.4	16.3	89	54.2	0.059
W596977		126	7.9	17.8	67	35.6	0.054
W596978		145	13.9	20.9	71	13.5	0.053
W596979		82	3.8	13.7	48	87.1	0.023
W596980		88	4.7	14.1	53	84.5	0.022
W596981		79	2.6	13.3	46	105.0	0.012
W596982		105	4.6	17.6	76	65.7	0.068
W596983		140	8.8	22.5	88	11.3	0.098
W596984		150	10.4	22.3	85	12.1	0.133
W596985		131	12.4	21.1	277	11.9	0.096
W596986		1	0.1	2.1	13	1.4	<0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230281

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 26-DEC-2020
Account: ROCKHA

CERTIFICATE WH20230282

Project: Klaza

P.O. No.: BATCH 58

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 9-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 26-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230282

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W596987		4.46		5.15	7.30	57.5	290	1.23	8.93	2.63	0.67	49.1	22.5	12	19.45	2120
W596988		2.83		2.36	7.79	55.9	860	1.90	4.14	2.93	0.73	59.1	26.4	14	37.3	1230
W596989		6.16		0.86	8.04	8.8	1210	1.58	0.49	3.72	0.23	55.0	25.0	17	17.35	920
W596990		0.26		10.60	6.74	1950	220	1.65	5.92	1.81	38.3	48.0	12.2	30	17.40	201
W596991		3.88		0.92	8.32	10.0	1780	1.49	0.57	3.63	0.28	52.8	22.0	18	22.0	772
W596992		4.02		1.35	8.03	11.4	490	1.71	0.79	3.25	0.37	61.4	37.0	17	12.55	1210
W596993		4.94		1.39	7.82	12.5	1190	1.61	0.58	3.75	0.39	49.9	24.7	17	17.55	991
W596994		4.17		1.08	8.12	12.5	730	1.52	0.65	3.95	0.40	52.4	29.5	16	7.70	996
W596995		0.26	1.485	91.0	4.60	3830	1120	1.07	47.7	1.52	193.0	30.8	60.6	35	9.38	1250
W596996		4.88		1.15	7.60	17.9	1570	1.54	0.59	4.21	2.35	55.4	21.7	16	9.57	760
W596997		5.26		1.37	7.71	11.8	1100	1.73	0.54	3.45	0.50	61.0	29.6	15	7.34	974
W596998		4.32		2.70	7.76	8.6	160	1.66	0.91	2.89	0.38	57.6	34.1	16	6.70	1380
W596999		4.43		1.01	7.64	8.1	560	1.44	0.63	3.49	0.37	53.7	24.6	16	7.66	879
W597000		4.21		1.26	8.16	11.8	750	1.56	0.94	3.90	2.35	55.7	27.0	16	12.05	686
W598751		5.14		1.67	7.54	11.0	1540	1.62	0.54	3.34	1.79	46.8	20.1	16	8.71	727
W598752		5.61		1.43	7.92	17.6	380	1.67	1.51	2.74	0.96	51.8	22.8	18	7.26	595
W598753		2.87		0.91	7.85	15.9	380	1.54	0.82	2.48	0.35	52.8	29.3	15	5.41	941
W598754		3.97		0.66	7.59	11.0	340	1.35	0.57	2.54	0.22	52.5	24.5	17	5.89	749
W598755		2.15		5.25	5.45	22.9	170	1.03	6.41	13.00	2.30	46.7	14.2	9	11.60	1150
W598756		5.07		0.02	0.11	0.2	20	0.09	0.04	32.1	0.02	1.04	0.6	2	0.06	4.0
W598757		4.13		1.87	7.60	12.5	180	1.35	1.26	2.89	1.40	45.1	26.6	14	6.41	889
W598758		4.50		2.83	7.19	130.0	80	1.26	1.53	2.91	4.79	35.4	26.6	15	5.39	1115
W598759		<0.02		2.70	7.22	127.5	80	1.30	1.56	2.69	4.49	36.3	26.6	14	5.46	1090
W598760		2.90		1.02	7.34	7.2	110	1.39	0.72	2.76	0.20	37.6	75.6	15	4.05	909
W598761		3.65		3.20	8.08	27.4	470	1.43	2.30	3.78	16.00	43.7	28.4	13	7.53	1255
W598762		5.31		1.65	7.48	11.1	1300	1.26	0.56	4.02	0.36	39.4	22.0	15	8.69	1120
W598763		5.29		1.17	7.79	5.7	1330	1.41	0.51	3.37	0.27	44.8	20.5	17	8.44	987
W598764		6.09		1.17	7.76	17.2	1040	1.62	0.93	3.11	0.34	50.2	18.3	22	8.67	455
W598765		4.09		0.84	7.37	8.8	1030	1.54	0.64	3.64	0.28	45.6	10.0	18	7.16	625
W598766		5.41		0.92	7.99	7.7	1250	1.59	0.46	3.44	0.36	49.0	14.5	16	7.19	1025
W598767		4.22		1.62	8.26	31.0	810	1.53	0.71	3.42	0.48	51.1	24.7	17	14.55	750
W598768		2.55		1.42	7.42	35.8	160	1.44	1.21	3.59	0.21	37.6	29.4	16	11.70	856
W598769		4.75		1.15	8.05	9.7	750	1.68	0.55	3.41	0.29	57.6	23.4	16	8.21	971
W598770		4.35		0.97	7.70	11.5	190	1.57	1.09	3.14	0.31	42.7	23.3	15	10.60	645
W598771		1.74		1.19	7.98	14.7	290	1.67	0.80	3.61	0.33	49.0	22.2	15	12.45	716
W598772		2.11		0.62	7.77	7.4	570	1.59	0.64	2.96	0.16	38.2	19.8	17	9.30	481
W598773		4.38		0.80	7.85	7.9	380	1.51	0.73	3.26	0.22	48.1	29.0	15	8.09	702
W598774		4.03		0.97	7.55	20.7	210	1.47	0.92	2.93	0.55	45.4	22.4	13	11.45	508
W598775		3.63		1.93	7.57	135.5	90	1.40	1.06	2.60	0.60	40.6	57.2	15	13.70	1295
W598776		4.97		0.73	7.40	33.7	1100	1.82	0.51	2.85	0.25	60.9	33.3	19	9.99	421

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 26-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20230282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W596987		5.41	16.25	0.11	0.5	0.334	2.56	25.2	29.5	1.19	484	52.7	0.12	5.0	6.8	1140
W596988		5.13	17.35	0.13	0.7	0.304	2.13	30.2	38.7	1.77	530	26.0	0.39	6.0	7.7	1240
W596989		5.65	17.90	0.12	0.7	0.383	2.28	28.9	27.1	2.26	417	62.2	1.04	5.9	9.1	1350
W596990		6.07	15.75	0.09	1.1	0.733	2.92	24.5	46.5	0.76	2070	9.09	0.07	7.0	18.1	520
W596991		5.44	16.70	0.10	0.7	0.331	2.21	27.5	25.0	2.59	394	12.05	1.01	5.7	8.4	1440
W596992		6.25	19.70	0.13	0.7	0.271	2.83	31.5	22.1	2.23	299	14.90	1.42	5.9	10.7	1460
W596993		5.47	17.85	0.11	0.7	0.188	2.12	24.6	27.4	2.02	394	76.5	0.88	5.4	9.1	1450
W596994		5.80	17.90	0.12	0.7	0.211	2.76	27.6	25.4	2.15	407	8.20	1.25	6.0	11.4	1410
W596995		11.25	11.50	0.09	0.7	4.40	1.91	15.4	32.1	0.53	1880	16.40	0.15	4.4	15.4	350
W596996		5.23	16.90	0.11	0.6	0.263	2.62	29.4	24.2	1.90	501	16.55	1.21	5.5	7.4	1300
W596997		5.05	17.15	0.11	0.7	0.217	2.09	30.2	24.2	1.84	375	41.9	1.36	5.4	7.7	1340
W596998		7.32	17.85	0.12	0.7	0.236	2.22	28.5	23.5	2.20	411	10.45	1.26	5.3	11.5	1370
W596999		5.60	17.30	0.14	0.7	0.158	2.55	26.1	18.6	2.16	370	179.0	1.37	5.7	9.4	1360
W597000		5.83	17.70	0.11	0.7	0.226	2.56	28.8	24.7	2.28	496	15.20	1.20	6.2	8.7	1390
W598751		4.93	17.80	0.10	0.7	0.220	2.58	23.1	23.3	2.08	436	80.6	1.28	6.2	8.0	1410
W598752		5.84	17.65	0.11	0.8	0.159	2.78	25.4	18.2	1.79	448	10.80	0.97	6.1	8.7	1330
W598753		5.53	17.65	0.19	0.7	0.153	3.01	26.8	15.9	1.82	275	34.2	1.39	5.3	12.0	1320
W598754		5.60	16.70	0.18	0.8	0.145	2.94	27.7	19.0	1.99	298	12.40	1.18	5.5	8.5	1380
W598755		4.99	11.80	0.15	0.4	0.409	2.29	26.3	15.3	1.29	809	35.0	0.35	3.5	5.6	900
W598756		0.15	0.39	0.07	0.1	0.006	0.04	1.2	1.2	1.61	101	0.20	0.04	0.3	0.7	50
W598757		5.46	16.15	0.18	0.7	0.275	2.87	22.6	19.7	1.84	524	8.86	0.85	4.7	8.5	1260
W598758		7.07	16.35	0.16	0.6	0.328	2.95	16.9	14.2	1.03	298	13.15	0.73	4.4	8.1	1260
W598759		6.84	16.70	0.17	0.7	0.327	2.93	17.5	14.6	1.03	289	13.35	0.72	4.6	8.1	1240
W598760		8.11	17.15	0.15	0.7	0.198	2.01	18.7	17.7	1.59	372	10.95	1.59	5.4	10.8	1250
W598761		5.54	16.70	0.24	0.6	0.861	2.75	22.1	21.4	1.73	590	14.20	0.99	4.6	8.8	1390
W598762		4.27	16.30	0.14	0.6	0.234	2.11	19.6	22.0	1.93	493	22.6	1.04	4.5	8.0	1340
W598763		4.70	17.50	0.16	0.7	0.275	2.31	21.7	26.8	2.07	346	82.0	1.08	5.4	8.2	1360
W598764		4.23	17.95	0.18	2.1	0.316	2.29	24.8	23.5	1.61	464	3.42	1.45	8.1	9.6	1400
W598765		3.86	17.05	0.17	1.4	0.167	2.15	23.2	22.0	1.72	527	38.2	1.50	7.0	8.0	1330
W598766		4.73	17.70	0.14	0.8	0.196	2.03	25.4	21.9	2.00	394	10.35	1.60	6.1	8.2	1350
W598767		4.88	17.90	0.17	0.8	0.224	2.21	25.5	36.9	1.50	410	35.1	0.20	5.8	9.4	1400
W598768		5.06	17.80	0.16	0.7	0.258	3.34	17.3	16.4	0.82	782	22.6	0.27	4.8	8.0	1370
W598769		4.55	18.10	0.19	0.7	0.316	2.41	29.1	25.6	1.90	456	71.2	1.43	4.8	7.7	1340
W598770		4.76	17.00	0.16	0.6	0.212	2.82	20.5	19.1	1.57	600	4.01	1.05	4.6	7.4	1300
W598771		4.91	17.70	0.21	0.6	0.219	2.87	25.4	19.3	1.63	745	10.65	0.95	4.9	7.7	1310
W598772		4.35	17.55	0.16	0.6	0.219	2.38	18.2	24.0	1.83	333	47.8	1.22	4.6	6.6	1300
W598773		5.06	17.50	0.15	0.6	0.287	2.39	24.6	22.2	1.73	336	8.12	1.29	4.6	7.9	1280
W598774		4.63	16.85	0.16	0.5	0.262	2.99	23.3	23.0	1.45	653	5.69	0.78	5.7	6.4	1120
W598775		5.86	16.55	0.15	0.5	0.366	3.81	19.8	12.4	0.76	760	5.71	0.40	3.8	9.1	1190
W598776		3.42	17.70	0.16	3.0	0.121	2.38	32.2	15.9	0.87	662	25.9	1.34	8.1	9.3	1150

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20230282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W596987		29.4	128.5	0.016	4.29	20.5	15.4	4	16.7	207	0.32	1.19	11.95	0.281	2.39	8.7
W596988		37.8	120.5	0.011	2.93	15.15	19.1	4	11.1	721	0.37	0.52	10.55	0.346	2.16	31.4
W596989		14.4	130.0	0.041	1.66	3.13	22.7	3	6.5	2340	0.36	0.10	9.67	0.408	1.79	5.4
W596990		1835	176.0	<0.002	3.50	48.0	10.4	<1	6.6	85.4	0.54	0.20	12.15	0.211	2.60	4.8
W596991		18.8	115.0	0.008	1.90	4.45	19.8	2	5.4	543	0.36	0.08	9.33	0.433	1.63	4.7
W596992		16.3	139.0	0.011	2.85	5.34	23.2	4	7.3	530	0.38	0.09	9.50	0.410	2.09	4.1
W596993		23.5	97.3	0.049	2.17	6.54	21.5	3	4.9	409	0.33	0.07	8.90	0.416	1.78	3.9
W596994		23.1	141.0	0.004	2.77	3.23	22.8	3	6.2	857	0.37	0.09	10.00	0.399	2.13	3.9
W596995		9050	109.0	<0.002	>10.0	238	7.3	2	10.5	91.8	0.33	1.86	7.30	0.143	1.71	4.5
W596996		31.3	129.5	0.008	2.09	4.76	19.9	3	5.4	468	0.35	0.12	9.69	0.379	1.97	3.5
W596997		16.1	108.5	0.023	2.50	4.17	21.2	4	6.9	440	0.33	0.11	8.95	0.370	1.74	3.7
W596998		16.2	110.5	0.005	4.54	2.20	21.4	5	7.0	588	0.31	0.10	8.57	0.366	1.69	3.0
W596999		15.7	104.5	0.174	2.55	2.45	21.3	2	5.4	486	0.33	0.07	8.26	0.380	1.70	2.6
W597000		82.5	130.0	0.007	2.66	3.02	21.3	4	5.2	440	0.38	0.15	9.40	0.412	1.74	3.2
W598751		145.5	104.5	0.034	1.89	2.68	21.6	2	6.9	631	0.37	0.13	8.32	0.398	1.82	2.8
W598752		68.6	131.5	0.006	3.47	2.07	20.8	4	11.2	380	0.39	0.42	9.65	0.375	2.07	2.9
W598753		21.0	110.5	0.022	2.93	2.06	19.7	3	6.4	470	0.38	0.10	8.37	0.358	1.93	3.1
W598754		14.3	115.5	0.006	2.66	1.75	20.4	5	6.3	410	0.38	0.10	9.55	0.383	1.81	3.1
W598755		278	110.5	0.034	4.02	14.45	14.4	3	5.9	500	0.23	0.78	6.39	0.247	1.62	3.8
W598756		0.8	1.3	<0.002	<0.01	0.09	0.2	1	<0.2	80.9	<0.05	<0.05	0.11	0.005	0.02	0.2
W598757		44.9	114.5	0.005	3.85	4.64	17.7	3	6.1	330	0.33	0.27	8.45	0.329	2.07	2.7
W598758		197.0	100.0	0.005	5.94	102.0	17.0	6	8.7	705	0.29	0.53	6.94	0.305	2.03	2.7
W598759		179.0	108.0	0.007	5.78	92.7	17.8	6	8.5	689	0.31	0.51	7.46	0.308	2.09	2.8
W598760		14.8	77.8	0.007	6.16	2.34	17.4	13	10.3	424	0.36	0.12	6.61	0.354	1.91	2.4
W598761		369	93.6	0.006	3.91	7.51	18.7	4	7.3	320	0.31	0.71	7.07	0.348	2.40	2.2
W598762		21.1	62.7	0.019	1.91	4.20	17.5	2	3.2	659	0.30	0.25	7.10	0.343	1.65	2.4
W598763		14.9	74.6	0.067	2.00	2.20	18.6	3	7.5	490	0.36	0.11	7.24	0.367	1.83	2.2
W598764		52.3	74.8	0.002	2.14	3.62	14.7	2	3.9	417	0.51	1.08	7.41	0.394	1.71	3.2
W598765		24.4	80.5	0.013	1.49	2.07	15.1	3	7.7	417	0.45	0.19	7.43	0.368	1.83	2.6
W598766		21.4	82.5	0.006	1.94	5.15	19.9	3	8.5	513	0.41	0.09	8.81	0.385	1.84	2.7
W598767		29.0	87.1	0.016	2.88	17.55	20.0	3	7.7	212	0.37	0.28	8.45	0.401	2.23	3.1
W598768		18.6	107.5	0.010	4.18	10.10	17.8	6	11.0	237	0.35	0.54	7.00	0.351	2.66	2.7
W598769		17.0	90.9	0.042	2.29	2.72	18.6	3	7.6	507	0.32	0.20	8.32	0.368	2.04	3.7
W598770		18.2	110.5	0.003	3.38	3.38	18.0	4	7.0	670	0.30	0.29	7.30	0.337	2.62	2.4
W598771		25.5	140.5	0.008	3.46	4.11	19.4	4	7.9	647	0.32	0.38	8.50	0.352	2.71	2.9
W598772		16.5	86.6	0.028	2.18	2.17	18.8	2	5.7	664	0.31	0.08	7.16	0.336	2.11	2.4
W598773		17.1	82.4	0.003	3.01	2.48	17.1	2	5.3	508	0.31	0.14	7.57	0.350	2.01	2.4
W598774		32.8	110.5	<0.002	3.36	4.98	15.5	3	5.9	352	0.37	0.34	8.22	0.318	2.42	2.3
W598775		54.2	139.0	0.003	5.62	102.5	15.9	6	8.5	226	0.28	0.54	9.48	0.271	2.74	1.9
W598776		20.7	88.7	0.008	1.86	16.75	8.4	2	3.4	265	0.55	0.16	9.97	0.285	1.65	4.3

***** See Appendix Page for comments regarding this certificate *****

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C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 26-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230282

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W596987		129	9.3	17.1	148	10.6	0.154
W596988		150	8.8	20.8	153	19.4	0.089
W596989		184	8.6	22.2	73	14.7	0.103
W596990		66	6.1	12.9	2910	30.6	0.597
W596991		189	9.9	20.5	80	14.1	0.069
W596992		190	8.6	22.8	67	14.9	0.117
W596993		192	7.0	21.1	94	13.6	0.079
W596994		179	11.0	21.9	82	13.7	0.083
W596995		48	4.3	9.6	>10000	24.3	2.83
W596996		167	7.8	23.0	219	13.4	0.064
W596997		177	8.0	19.6	116	13.3	0.081
W596998		176	11.3	20.0	90	13.9	0.099
W596999		176	6.2	21.7	85	13.1	0.143
W597000		180	7.1	20.7	251	13.6	0.085
W598751		177	9.3	18.8	235	13.8	0.083
W598752		174	15.1	18.8	122	16.2	0.073
W598753		172	8.4	20.1	70	14.6	0.083
W598754		186	5.9	19.1	63	15.1	0.049
W598755		114	5.9	24.7	201	9.1	0.083
W598756		1	0.1	2.2	3	2.1	<0.005
W598757		161	9.4	16.2	167	13.9	0.108
W598758		161	9.8	14.5	338	13.4	0.200
W598759		161	10.7	14.4	312	13.6	0.256
W598760		169	5.9	16.8	76	13.4	0.076
W598761		176	8.1	15.1	1070	12.5	0.125
W598762		173	5.5	16.4	113	12.9	0.140
W598763		178	5.0	18.1	76	13.4	0.133
W598764		143	4.9	14.9	97	79.6	0.069
W598765		146	5.6	14.9	107	48.1	0.083
W598766		179	5.2	20.9	94	14.2	0.120
W598767		186	7.3	18.9	113	14.9	0.090
W598768		177	11.8	14.2	89	13.9	0.059
W598769		180	5.3	16.5	87	13.7	0.109
W598770		167	7.0	14.5	75	12.4	0.070
W598771		170	7.7	17.0	78	13.0	0.078
W598772		169	4.3	14.9	66	13.3	0.044
W598773		166	4.6	16.2	60	12.6	0.072
W598774		141	6.0	14.9	112	10.0	0.066
W598775		150	7.3	12.8	137	9.7	0.230
W598776		83	3.5	11.4	129	117.5	0.052

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 26-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20230282

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE WH20233995

Project: Klaza

P.O. No.: Batch 55

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20233995

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598531		5.37		0.17	8.16	5.6	1230	1.34	0.07	5.10	0.77	48.5	16.2	22	5.65	23.3
W598532		5.85		0.17	8.25	7.5	1180	1.37	0.06	4.75	0.77	43.4	15.5	20	8.93	12.8
W598533		1.88		1.57	7.67	515	800	1.40	0.15	5.04	18.45	43.9	13.7	18	16.85	12.3
W598534		5.19		0.01	0.13	0.3	30	0.09	<0.01	32.8	0.03	1.16	0.6	2	0.07	1.7
W598535		3.60		0.48	8.10	28.7	1220	1.05	0.05	5.08	0.52	46.8	13.7	18	9.67	21.1
W598536		2.71		0.41	7.80	72.2	960	1.23	0.10	4.67	0.72	43.8	14.4	19	19.60	7.6
W598537		5.08		0.19	8.30	7.7	1100	1.07	0.04	5.45	0.37	43.2	15.4	16	8.79	15.9
W598538		1.72		0.57	8.02	99.0	410	1.41	0.04	4.20	7.07	41.9	16.9	15	19.10	13.3
W598539		0.26		10.45	6.55	1910	220	1.40	5.70	1.67	37.3	48.0	12.4	29	16.25	196.0
W598540		5.06		0.18	8.37	15.0	1280	1.43	0.04	4.96	0.62	42.4	13.6	13	12.85	21.3
W598541		3.72		0.33	8.29	8.9	2100	1.44	0.10	5.23	1.71	48.9	11.7	8	11.25	27.8
W598542		4.76		0.50	7.65	49.3	1240	1.45	0.11	4.66	0.88	35.9	9.9	4	17.75	38.5
W598543		1.86		1.53	7.35	203	1120	1.53	0.09	5.53	2.13	44.8	7.6	4	18.85	25.1
W598544		5.06		0.23	8.36	9.8	1460	1.73	0.12	4.37	0.89	44.3	9.5	5	9.54	19.2
W598545		5.52		0.27	8.46	10.0	1050	1.61	0.12	4.14	0.69	43.6	13.1	5	8.09	51.5
W598546		<0.02		0.29	8.79	9.5	1080	1.76	0.12	4.30	0.71	43.8	12.8	6	8.09	54.8
W598547		1.86		1.76	8.06	2780	410	1.77	0.11	3.38	5.78	38.6	11.1	4	18.20	32.4
W598548		5.16		0.18	8.10	9.7	1590	1.74	0.16	4.02	0.45	41.5	9.3	6	7.63	31.6
W598549		3.86		0.28	6.98	43.0	1450	1.52	0.11	2.86	0.65	23.3	6.1	10	10.95	18.2
W598550		1.84		0.72	6.38	165.5	1410	1.40	0.11	2.31	4.40	14.65	4.0	14	14.30	9.3
W598551		5.24		0.24	6.54	19.1	1340	1.43	0.18	2.32	0.38	16.20	4.7	15	14.25	13.9
W598552		1.85		0.81	6.32	201	280	1.47	0.25	2.63	1.27	18.85	5.4	11	20.5	20.2
W598553		0.73		0.82	7.02	141.5	290	1.43	0.24	2.89	1.07	24.4	7.1	10	21.4	32.2
W598554		2.63		0.90	8.16	69.2	650	1.83	0.14	4.00	1.21	42.5	10.4	4	25.4	25.8
W598555		2.01		77.8	7.80	1960	990	1.71	0.16	3.73	11.05	38.6	10.4	4	19.25	142.5
W598556		5.57		4.12	8.51	341	1490	1.83	0.22	4.84	3.88	44.2	10.4	6	10.70	21.1
W598557		5.90		0.22	7.99	7.7	1740	1.89	0.13	3.01	0.34	33.1	6.6	16	5.28	7.1
W598558		1.88		0.58	8.40	55.8	1140	1.65	0.27	4.37	1.51	53.6	98.7	6	7.10	22.6
W598559		3.76		0.22	8.08	11.6	1340	1.77	0.16	4.82	0.41	37.2	8.1	7	4.55	12.8
W598560		0.26	1.505	88.9	4.52	4000	1350	1.00	52.8	1.55	191.5	31.4	58.8	35	8.45	1270
W598561		7.21		0.11	7.62	9.4	2420	1.87	0.15	2.49	0.18	51.2	9.4	10	6.62	3.1
W598562		2.91		0.12	7.00	13.0	1830	1.76	0.16	3.32	0.19	40.6	7.4	9	11.55	2.5
W598563		8.24		0.07	7.55	7.9	2370	1.70	0.09	2.44	0.11	51.3	6.3	11	7.45	2.8
W598564		7.17		0.10	7.26	7.2	2150	1.63	0.09	2.44	0.12	45.3	5.9	17	9.41	4.6
W598565		2.94		9.24	6.83	245	1120	1.67	0.92	2.27	25.1	47.8	5.7	8	20.2	445
W598566		2.81		3.83	7.57	10.3	2100	1.50	0.12	1.67	9.26	48.0	5.4	9	18.35	16.9
W598567		7.59		0.97	7.09	5.2	2050	1.66	0.08	2.46	0.86	41.3	5.6	8	10.80	7.6
W598568		8.81		0.16	7.18	12.3	2050	1.69	0.07	2.57	0.12	40.3	5.9	10	17.25	5.0
W598569		3.20		13.05	6.81	91.1	1350	1.83	0.49	1.90	117.5	49.5	4.7	7	25.1	88.5
W598570		2.76		1.17	7.14	114.0	1590	1.67	0.16	2.20	2.10	44.0	4.9	9	16.10	71.4

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Finalized Date: 28-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20233995

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598531		5.67	22.6	0.09	1.0	0.082	1.52	21.1	14.6	2.06	1220	5.00	2.57	8.3	5.0	1210
W598532		5.65	21.9	0.08	0.9	0.071	1.49	18.5	19.1	1.87	1380	2.73	2.09	8.0	4.9	1210
W598533		5.29	19.85	0.09	0.9	0.065	1.68	20.7	36.4	1.92	1670	2.48	1.14	7.2	4.3	1040
W598534		0.18	0.43	<0.05	0.1	<0.005	0.03	1.2	1.2	2.02	122	0.05	0.07	0.2	0.7	70
W598535		5.52	20.7	0.09	0.9	0.069	1.60	20.7	10.7	1.94	1220	2.76	2.41	7.7	4.4	1170
W598536		5.45	20.9	0.08	0.9	0.073	1.75	19.1	23.1	1.78	1840	2.79	0.89	6.9	4.6	1120
W598537		5.87	21.8	0.11	0.8	0.074	1.33	18.5	11.0	1.90	1340	2.72	2.45	7.6	3.7	1190
W598538		5.30	20.3	0.07	0.7	0.092	1.27	18.7	36.3	1.23	2320	2.84	0.37	6.5	3.3	1150
W598539		5.89	15.85	0.08	1.1	0.711	2.85	23.9	40.5	0.71	1980	9.50	0.07	7.0	17.2	510
W598540		5.45	22.5	0.08	0.8	0.082	1.52	18.4	13.5	1.59	1270	3.31	2.60	6.3	2.7	1420
W598541		5.21	22.2	0.09	0.5	0.116	1.60	21.5	12.1	1.16	1840	11.95	3.17	5.6	1.9	1930
W598542		4.64	21.2	0.07	0.5	0.066	1.48	14.9	32.9	1.13	2000	5.90	1.55	6.2	1.7	1790
W598543		4.68	19.65	0.09	0.5	0.070	1.89	21.0	18.5	1.39	2100	6.40	1.82	6.2	1.6	1500
W598544		4.91	23.0	0.09	0.7	0.070	1.69	18.8	17.9	1.21	1480	14.05	3.57	7.2	1.6	1890
W598545		5.73	23.0	0.07	0.6	0.068	1.55	19.5	16.0	1.19	1380	5.34	3.24	6.3	2.5	1810
W598546		5.55	22.8	0.09	0.6	0.061	1.60	20.3	16.0	1.23	1400	4.99	3.37	6.3	2.5	1900
W598547		4.96	22.7	0.09	0.6	0.070	2.19	16.3	214	0.91	2190	2.00	0.21	6.2	3.2	1810
W598548		4.49	22.0	0.09	0.6	0.073	1.78	17.8	13.1	1.03	1280	3.32	3.25	6.5	2.0	1670
W598549		2.81	17.80	0.08	0.6	0.039	2.53	10.3	45.2	0.64	961	1.39	2.03	6.3	3.0	800
W598550		1.88	14.05	0.09	0.4	0.029	2.76	6.5	88.8	0.64	1500	0.68	0.80	6.3	4.5	220
W598551		1.86	14.25	0.09	0.4	0.023	2.67	7.1	113.0	0.59	1160	0.90	1.22	6.4	4.4	380
W598552		2.01	14.40	0.06	0.3	0.029	2.56	8.4	93.0	0.78	1880	2.72	0.03	6.1	3.2	510
W598553		2.54	16.55	0.07	0.4	0.040	2.58	10.9	100.5	0.84	2200	2.85	0.03	6.8	3.5	770
W598554		4.32	21.5	0.09	0.6	0.074	2.13	18.6	164.5	1.20	2330	9.40	0.09	6.5	1.8	1860
W598555		5.13	20.4	0.10	0.6	0.070	2.18	17.4	102.0	1.06	2600	5.91	0.31	5.0	3.4	1780
W598556		5.19	23.5	0.09	0.6	0.080	1.81	19.0	11.0	1.15	1690	13.35	3.32	6.5	2.0	1940
W598557		3.41	18.40	0.09	0.5	0.052	2.15	14.6	10.4	0.89	1140	8.88	3.59	7.4	5.0	1090
W598558		6.22	21.0	0.11	0.7	0.087	1.67	24.4	10.9	1.18	1540	27.7	3.11	7.2	2.9	1790
W598559		5.13	18.70	0.09	0.6	0.068	1.40	17.0	9.5	1.29	1520	7.17	3.50	5.1	1.5	1780
W598560		11.50	10.35	<0.05	0.7	4.13	1.94	16.3	29.3	0.54	1920	14.70	0.15	3.8	14.5	360
W598561		3.41	15.60	0.11	1.1	0.051	2.97	26.7	12.3	0.94	691	0.67	2.48	8.0	2.1	590
W598562		3.33	14.70	0.13	1.1	0.068	2.99	21.0	11.7	0.66	1690	0.85	1.90	7.9	2.0	570
W598563		3.22	15.70	0.16	1.1	0.038	2.97	26.9	13.9	0.91	687	0.57	2.55	7.6	2.1	580
W598564		3.42	14.65	0.16	1.1	0.070	2.97	22.5	13.1	0.79	1020	0.78	1.95	7.6	2.2	620
W598565		4.08	13.05	0.11	0.9	1.630	3.06	26.4	15.2	0.82	4070	5.86	0.04	6.1	1.7	510
W598566		3.52	15.55	0.12	1.1	0.075	3.61	25.3	25.1	0.56	1850	0.91	0.24	7.3	1.7	560
W598567		3.16	13.90	0.13	1.1	0.056	2.98	21.4	9.3	0.72	1200	0.62	1.80	6.9	1.6	540
W598568		3.17	15.15	0.17	1.1	0.045	3.02	20.0	19.8	0.72	697	0.73	1.71	7.6	2.1	560
W598569		5.09	14.50	0.11	1.1	0.445	3.09	27.3	13.5	0.80	5330	0.63	0.04	7.2	2.0	560
W598570		3.87	14.60	0.12	1.1	0.073	3.31	23.4	16.1	0.75	2820	0.55	0.65	7.1	2.0	560

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20233995

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598531		23.5	42.4	<0.002	0.03	1.49	20.0	1	1.5	780	0.58	<0.05	6.17	0.557	0.48	2.3
W598532		30.9	39.9	<0.002	0.06	5.86	18.7	<1	1.5	677	0.55	<0.05	5.67	0.564	0.49	2.1
W598533		181.0	79.0	<0.002	0.68	17.80	16.5	<1	1.4	494	0.47	<0.05	5.66	0.488	1.43	2.2
W598534		1.5	0.9	<0.002	0.01	0.09	0.2	2	<0.2	78.9	<0.05	<0.05	0.10	0.006	<0.02	0.2
W598535		95.9	48.7	<0.002	0.05	2.00	17.0	<1	1.4	764	0.53	<0.05	6.13	0.540	0.52	2.1
W598536		63.5	64.0	<0.002	0.32	11.00	17.1	<1	1.6	473	0.51	<0.05	5.84	0.515	1.01	2.2
W598537		35.8	45.9	<0.002	0.05	1.69	20.6	1	1.7	754	0.51	<0.05	5.19	0.585	0.51	1.6
W598538		235	52.2	<0.002	0.52	18.35	19.6	1	1.9	290	0.44	<0.05	4.80	0.553	1.62	5.3
W598539		1760	163.5	<0.002	3.38	49.9	9.7	1	6.5	79.6	0.60	0.21	11.50	0.211	2.80	4.6
W598540		31.0	48.4	<0.002	0.06	3.08	18.8	1	2.1	824	0.43	<0.05	5.51	0.518	0.76	2.0
W598541		49.3	46.5	0.002	0.03	1.73	13.6	1	3.5	874	0.36	<0.05	3.42	0.404	0.73	1.4
W598542		42.9	43.3	<0.002	0.28	18.75	11.1	1	3.8	539	0.36	<0.05	3.09	0.390	1.23	1.6
W598543		135.0	84.1	0.002	1.08	21.6	10.8	1	2.9	643	0.40	<0.05	3.70	0.341	1.45	1.8
W598544		33.9	46.7	0.002	0.03	1.32	12.1	1	3.3	1020	0.46	<0.05	3.73	0.408	0.74	1.4
W598545		32.5	52.2	0.002	0.10	2.50	12.0	1	4.4	998	0.37	<0.05	4.44	0.403	0.61	1.7
W598546		33.0	49.9	0.002	0.10	2.43	11.9	1	4.3	1040	0.39	<0.05	4.72	0.421	0.63	1.7
W598547		299	74.3	<0.002	1.37	36.7	11.4	1	5.4	245	0.41	<0.05	4.51	0.394	1.50	2.1
W598548		26.9	50.5	<0.002	0.07	2.94	11.5	1	3.1	916	0.41	<0.05	4.40	0.368	0.68	1.6
W598549		38.8	75.7	<0.002	0.17	8.18	6.7	<1	1.7	547	0.47	<0.05	3.71	0.213	1.23	2.7
W598550		143.0	88.7	<0.002	0.49	13.30	5.0	1	1.1	284	0.50	<0.05	3.19	0.107	1.58	1.5
W598551		23.4	90.7	<0.002	0.20	18.05	5.5	1	1.2	316	0.48	<0.05	3.28	0.140	1.63	1.7
W598552		90.3	93.7	<0.002	0.45	28.5	5.5	1	1.4	138.5	0.44	<0.05	2.95	0.157	2.57	1.4
W598553		74.4	99.9	<0.002	0.49	27.6	7.2	1	2.9	152.0	0.51	<0.05	3.70	0.209	2.80	1.7
W598554		30.8	67.9	<0.002	0.60	35.0	12.6	1	3.6	210	0.38	<0.05	4.41	0.398	2.08	1.8
W598555		3610	83.7	<0.002	2.06	101.0	12.1	1	2.9	263	0.27	0.05	3.32	0.362	2.07	1.5
W598556		330	54.3	<0.002	0.37	5.89	12.9	<1	3.6	994	0.36	<0.05	3.96	0.413	0.83	1.7
W598557		33.8	60.1	<0.002	0.03	1.52	8.4	<1	2.2	908	0.51	<0.05	3.85	0.264	0.67	1.3
W598558		52.0	64.3	0.005	2.57	1.51	11.6	1	3.5	836	0.51	0.08	4.26	0.384	0.85	2.0
W598559		39.0	34.2	0.002	0.12	1.12	10.2	<1	2.8	1030	0.29	<0.05	3.17	0.415	0.41	1.2
W598560		9170	111.0	0.002	>10.0	236	6.3	2	9.4	93.2	0.30	1.85	7.16	0.144	1.59	4.0
W598561		19.6	114.0	0.002	0.04	1.79	11.1	<1	1.6	395	0.60	<0.05	12.10	0.288	0.90	3.3
W598562		21.1	117.0	<0.002	0.11	4.54	10.7	<1	1.7	281	0.60	<0.05	10.55	0.272	1.28	4.2
W598563		17.5	111.0	<0.002	0.01	1.27	10.4	1	1.5	405	0.57	<0.05	12.50	0.268	0.96	3.5
W598564		17.9	115.5	<0.002	0.03	3.26	10.5	<1	1.6	302	0.59	<0.05	11.35	0.271	1.16	3.2
W598565		943	174.0	<0.002	1.32	30.9	8.8	<1	2.3	74.9	0.50	<0.05	12.05	0.223	2.53	4.4
W598566		980	156.0	<0.002	0.14	9.16	9.7	1	2.0	101.5	0.56	<0.05	12.55	0.254	1.96	3.2
W598567		344	111.5	<0.002	0.02	3.07	9.2	<1	1.7	290	0.54	<0.05	10.85	0.257	1.24	2.8
W598568		17.2	108.0	<0.002	0.06	3.43	9.4	<1	1.5	307	0.57	<0.05	10.55	0.264	1.26	3.4
W598569		2080	167.5	<0.002	1.15	14.80	11.2	1	2.9	64.3	0.56	<0.05	12.55	0.246	2.79	5.5
W598570		220	139.5	<0.002	0.42	17.05	10.0	<1	1.7	157.0	0.53	<0.05	11.90	0.257	1.99	4.3

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20233995

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598531		166	0.6	25.7	149	23.1	0.005
W598532		167	1.0	23.2	156	19.9	0.008
W598533		147	2.0	22.4	1630	18.6	0.179
W598534		1	<0.1	2.4	6	2.0	<0.005
W598535		160	0.8	23.8	129	19.6	0.009
W598536		156	2.5	21.6	145	20.3	0.027
W598537		187	1.3	23.9	121	18.2	0.005
W598538		181	4.2	22.5	428	16.1	0.010
W598539		63	6.3	12.6	2870	31.0	0.611
W598540		165	2.7	23.4	127	17.6	0.009
W598541		138	5.7	26.5	176	12.6	0.020
W598542		121	6.1	20.3	119	12.3	0.021
W598543		106	4.9	21.2	191	11.2	0.162
W598544		128	3.5	24.9	143	13.8	0.014
W598545		128	2.8	23.7	147	14.2	0.018
W598546		131	2.9	23.5	149	14.0	0.019
W598547		128	7.2	20.6	401	14.8	0.198
W598548		118	2.0	23.2	100	14.0	0.011
W598549		66	1.4	13.0	82	13.0	0.006
W598550		34	1.2	7.4	284	9.7	0.151
W598551		41	1.3	7.6	57	9.4	0.016
W598552		50	2.7	9.0	112	8.0	0.035
W598553		64	3.7	12.4	95	9.4	0.023
W598554		124	6.2	24.0	136	13.7	0.020
W598555		119	8.5	21.1	1120	11.7	0.502
W598556		133	1.9	24.7	388	13.8	0.257
W598557		79	0.8	16.1	88	10.5	<0.005
W598558		117	2.2	25.3	167	13.3	0.035
W598559		130	1.0	21.1	111	10.6	0.011
W598560		47	4.0	8.9	>10000	19.0	2.92
W598561		73	1.0	19.0	62	31.3	<0.005
W598562		72	1.3	17.6	60	29.4	<0.005
W598563		69	0.7	18.2	45	30.4	<0.005
W598564		72	1.2	17.5	55	30.2	<0.005
W598565		59	3.6	20.9	2580	23.0	0.311
W598566		66	2.0	16.0	644	29.6	0.006
W598567		65	1.3	14.7	110	29.4	<0.005
W598568		67	1.2	15.6	45	30.3	0.007
W598569		70	5.6	14.9	8490	28.6	0.047
W598570		66	4.0	16.9	286	31.1	0.027

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 28-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20233995

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234008

Project: Klaza

P.O. No.: Batch 57

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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VANCOUVER BC V6B 1L8

Finalized Date: 29-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234008

Sample Description	Method	WEI-21	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
W598571		3.47			0.33	7.52	10.9	2320	1.52	0.27	2.41	0.21	44.9	4.4	12	9.93
W598572		2.57			1.53	7.02	72.0	1200	1.50	0.71	1.96	15.80	47.3	10.5	12	13.55
W598573		1.16			0.96	7.20	66.9	1300	1.61	0.47	1.94	7.97	48.5	8.8	10	13.70
W598574		4.40			0.12	7.41	8.0	2340	1.58	0.18	2.39	0.19	45.2	5.3	15	7.86
W598575		3.00			1.30	7.54	25.4	2040	1.57	0.41	2.59	0.11	61.0	5.5	11	5.39
W598576		8.20			0.35	7.58	9.8	2270	1.63	0.61	2.33	0.11	53.5	6.0	15	6.07
W598577		9.07			0.32	7.28	17.2	2400	1.70	0.14	2.11	1.09	62.0	3.8	10	9.67
W598578		3.10			10.40	6.51	242	1080	1.66	2.84	1.84	23.5	30.6	6.5	13	9.63
W598579		7.55			0.17	7.18	30.4	1780	1.69	0.12	2.23	0.33	67.7	6.9	8	13.15
W598580		0.26			10.30	6.73	1970	240	1.43	5.47	1.80	36.0	48.4	10.6	29	15.75
W598581		7.12			0.18	7.12	11.8	1260	1.46	0.36	2.09	0.17	35.4	5.4	9	29.0
W598582		5.87			1.17	6.79	40.6	420	1.87	0.96	1.93	2.79	53.3	6.5	27	27.4
W598583		5.31			0.40	6.78	16.9	630	2.07	0.24	2.35	0.64	51.3	5.4	28	35.7
W598584		4.62			0.06	8.33	14.8	1530	3.00	0.13	4.28	0.08	50.3	6.7	26	48.5
W598585		7.87			0.06	7.62	9.1	2300	1.86	0.08	2.69	0.07	51.2	6.1	16	12.15
W598586		2.94			0.16	7.06	13.3	1870	1.64	0.08	2.74	0.57	41.1	5.1	12	18.00
W598587		6.99			0.13	7.03	11.1	2170	1.74	0.13	2.69	0.07	39.7	5.3	12	13.10
W598588		0.26		1.415	93.3	4.63	4030	90	1.02	52.0	1.59	198.5	34.0	60.3	36	9.39
W598589		7.49			0.30	7.37	9.5	2210	1.74	0.19	2.78	1.05	49.0	6.2	15	11.30
W598590		2.90			1.61	6.80	134.0	1570	1.64	0.20	2.45	7.33	53.8	6.6	10	23.3
W598591		6.38			0.09	7.33	47.6	2220	1.69	0.11	2.42	0.10	49.1	5.8	19	13.60
W598592		2.64	1.100		33.0	6.86	3200	590	1.45	4.30	2.51	21.8	49.3	5.3	10	22.1
W598593		7.96			0.50	7.38	13.0	2280	1.65	0.22	2.64	1.02	47.8	6.1	16	12.60
W598594		5.61			0.09	7.48	18.1	2270	1.61	0.11	2.37	0.08	52.5	7.1	11	9.97
W598595		<0.02			0.06	7.52	15.1	2260	1.58	0.10	2.28	0.11	52.1	6.6	15	9.67
W598596		2.48			0.43	7.89	47.4	2180	1.33	0.54	1.18	0.20	65.4	32.5	12	12.45
W598597		7.78			1.90	7.39	44.3	1910	1.61	0.72	1.76	3.15	48.4	5.3	14	14.00
W598598		7.52			3.85	6.93	66.6	1840	1.97	4.79	1.99	13.30	50.2	4.1	10	27.6
W598599		8.56			0.73	7.13	26.9	2280	1.94	1.58	2.25	1.12	52.5	3.3	13	24.4
W598600		3.21			4.87	7.35	161.5	800	2.88	1.74	1.86	21.7	57.2	2.9	14	19.85
W598601		8.37			4.14	6.88	55.0	700	2.99	1.09	0.45	13.45	26.1	1.2	4	31.9
W598602		8.23			1.32	6.62	55.7	100	3.73	0.81	0.86	4.28	21.5	0.6	2	33.3
W598603		2.69	1.065	1.085	39.4	6.04	713	400	2.82	1.23	0.77	165.5	35.9	3.3	7	41.4
W598604		5.23			0.04	0.12	0.8	20	0.11	0.04	35.2	0.14	0.95	0.5	1	0.12
W598605		6.54			27.9	6.36	3150	210	1.53	1.04	1.44	49.9	43.9	4.2	10	26.8
W598606		8.42			0.25	7.39	19.0	2050	1.52	0.18	2.54	0.46	52.1	3.5	11	11.45
W598607		8.60			1.85	6.93	12.1	1940	1.42	0.33	2.74	7.14	35.5	15.9	11	12.55
W598608		2.00			3.69	7.14	28.0	1920	1.70	0.14	2.26	7.84	50.8	3.0	12	13.20
W598609		3.25			0.35	6.74	15.8	2860	1.54	0.27	2.79	0.10	38.3	7.0	12	14.90
W598610		6.35			0.53	7.09	13.8	2210	1.58	0.22	2.32	4.23	54.8	4.6	9	11.20

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234008

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
W598571		85.8	3.46	16.55	0.18	1.3	0.089	3.07	23.8	9.6	0.78	924	0.65	2.03	8.2	2.6
W598572		42.2	4.89	15.60	0.16	1.0	0.227	3.02	25.9	17.3	0.63	2720	0.67	0.50	7.0	3.2
W598573		21.5	4.45	16.45	0.18	1.1	0.149	3.17	26.4	17.8	0.64	2510	0.48	0.57	7.4	2.4
W598574		10.1	3.59	16.35	0.19	1.2	0.060	3.01	23.3	12.2	0.79	837	0.87	2.27	8.3	3.4
W598575		34.8	3.34	16.40	0.17	1.1	0.132	2.85	33.8	12.4	0.84	1260	0.88	2.55	7.9	2.6
W598576		71.8	3.59	16.35	0.19	1.2	0.084	2.76	29.3	15.2	0.87	659	0.80	2.60	8.0	3.3
W598577		1.9	2.29	16.30	0.17	1.2	0.041	3.25	34.0	32.4	0.80	1680	3.11	0.06	7.8	2.5
W598578		69.7	4.18	14.65	0.12	1.3	0.537	2.90	16.8	19.7	0.84	5570	15.45	0.04	6.3	5.2
W598579		4.1	2.12	17.80	0.18	1.4	0.029	2.80	33.6	42.5	0.65	868	2.85	0.44	8.2	2.5
W598580		202	6.05	15.00	0.13	1.1	0.671	2.94	26.5	39.1	0.76	2060	9.20	0.07	6.3	17.6
W598581		4.9	2.80	16.55	0.14	1.4	0.046	2.36	17.5	51.8	0.57	609	0.66	0.82	8.1	2.8
W598582		26.8	2.29	17.50	0.16	3.7	0.068	1.93	27.1	107.0	0.74	723	1.88	0.07	8.4	17.7
W598583		20.0	1.96	18.75	0.14	4.2	0.034	2.43	26.4	100.5	0.81	572	2.05	0.07	9.2	16.8
W598584		8.4	3.19	24.9	0.18	3.4	0.035	3.74	22.3	60.2	0.97	691	0.74	0.09	12.5	15.5
W598585		6.5	3.00	16.50	0.20	1.3	0.049	2.91	26.8	12.6	0.79	622	1.20	2.45	8.4	2.6
W598586		7.0	3.26	16.05	0.16	1.4	0.039	2.96	19.9	25.7	0.70	1490	1.28	1.41	8.1	2.9
W598587		5.0	3.06	16.40	0.18	1.2	0.057	2.88	19.9	14.5	0.71	808	1.29	1.89	8.2	2.6
W598588		1285	11.75	11.60	0.14	0.8	4.38	2.00	16.6	30.1	0.54	1940	17.50	0.15	4.3	16.0
W598589		6.4	4.00	17.10	0.18	1.4	0.056	2.73	25.4	9.9	0.95	805	1.58	2.28	8.7	3.3
W598590		14.6	3.86	15.35	0.15	1.1	0.141	3.06	29.6	26.7	0.89	1790	2.17	0.18	7.1	2.8
W598591		5.5	3.55	16.30	0.18	1.2	0.039	2.93	26.2	21.8	0.74	622	1.31	1.97	7.9	3.3
W598592		34.8	4.62	14.70	0.15	1.0	0.436	3.03	27.4	26.8	0.92	1560	1.26	0.77	7.0	2.4
W598593		10.3	3.57	16.90	0.16	1.2	0.102	2.89	24.8	9.1	0.79	817	1.49	2.14	8.0	3.5
W598594		4.0	3.24	16.30	0.17	1.3	0.084	2.85	27.8	10.0	0.77	788	0.93	1.96	8.1	2.6
W598595		4.4	3.54	16.40	0.17	1.3	0.073	2.85	27.7	10.0	0.76	800	1.21	1.98	7.9	3.2
W598596		3.6	4.40	17.45	0.17	1.3	0.120	3.08	36.0	30.2	0.60	1420	0.93	0.11	8.4	3.0
W598597		16.3	3.85	16.35	0.16	1.3	0.210	3.21	25.5	34.2	0.73	1540	1.72	0.44	7.9	3.1
W598598		36.5	4.02	15.45	0.15	1.1	0.421	3.05	27.3	39.4	0.93	1830	6.23	0.53	7.5	2.5
W598599		3.4	3.56	16.20	0.18	1.2	0.122	3.38	27.9	31.6	0.77	1350	1.72	1.12	7.9	3.0
W598600		67.1	4.56	16.35	0.15	1.3	0.753	3.58	32.6	12.2	0.85	2920	6.02	0.05	9.4	3.9
W598601		17.7	1.53	19.10	0.13	3.1	0.377	2.85	11.7	33.0	0.23	834	5.13	0.05	22.0	1.3
W598602		13.4	0.84	20.1	0.11	3.6	0.075	2.52	9.3	58.1	0.31	804	2.24	0.04	27.7	0.4
W598603		111.5	5.03	15.50	0.13	1.5	0.660	2.48	19.4	26.5	0.49	2150	5.37	0.03	11.9	2.3
W598604		2.2	0.13	0.42	0.17	<0.1	0.005	0.03	1.1	1.1	1.25	95	0.06	0.05	0.2	1.2
W598605		98.4	6.42	14.30	0.14	0.9	0.454	3.11	24.5	7.4	0.70	2450	1.94	0.03	6.6	2.9
W598606		9.2	3.34	15.95	0.15	1.0	0.114	3.16	27.2	14.4	0.77	981	0.47	1.55	8.0	2.6
W598607		8.9	4.34	14.80	0.16	1.0	0.150	2.91	18.6	28.7	0.74	1300	0.41	0.68	7.5	4.5
W598608		8.7	4.24	15.95	0.15	1.1	0.130	3.42	27.5	24.1	0.99	1560	0.28	0.09	8.7	2.5
W598609		6.1	3.81	14.75	0.15	1.0	0.178	3.11	20.9	44.7	1.04	1140	0.40	0.07	7.5	3.3
W598610		18.1	3.85	15.95	0.15	1.0	0.178	2.71	28.7	61.3	0.86	1360	0.13	0.22	7.4	2.3

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234008

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
W598571		590	18.4	128.5	<0.002	0.02	5.17	11.3	<1	1.7	297	0.58	0.08	12.45	0.260	1.43
W598572		510	417	159.0	<0.002	0.67	6.40	9.8	<1	2.1	113.5	0.47	0.13	11.30	0.222	2.44
W598573		560	363	155.5	<0.002	0.58	5.72	10.4	<1	2.1	125.0	0.54	0.09	11.85	0.239	2.46
W598574		580	19.9	120.5	<0.002	0.01	2.52	11.2	<1	1.7	343	0.58	<0.05	11.65	0.261	1.31
W598575		590	25.7	122.5	<0.002	0.18	4.02	11.2	<1	2.0	280	0.55	<0.05	12.05	0.258	1.40
W598576		590	20.7	114.0	<0.002	0.01	2.83	11.1	<1	1.8	368	0.56	0.06	12.25	0.261	1.07
W598577		560	52.4	149.5	<0.002	0.18	18.50	10.7	1	1.7	59.4	0.57	<0.05	13.40	0.226	2.69
W598578		490	3110	139.5	<0.002	0.97	49.7	7.9	<1	3.3	129.5	0.45	0.10	11.25	0.188	2.45
W598579		590	25.5	98.4	<0.002	0.07	8.92	10.5	<1	1.7	169.0	0.63	<0.05	10.70	0.247	1.91
W598580		520	1835	171.5	<0.002	3.47	51.8	9.2	<1	6.5	80.6	0.48	0.22	10.70	0.211	2.84
W598581		590	18.6	86.5	<0.002	0.06	9.10	10.2	<1	2.5	209	0.64	<0.05	9.16	0.257	1.31
W598582		570	190.5	70.6	<0.002	0.18	14.30	6.4	<1	3.4	370	0.62	<0.05	10.30	0.249	1.43
W598583		680	39.0	78.7	<0.002	0.09	8.42	5.9	<1	2.4	376	0.69	<0.05	8.78	0.268	1.46
W598584		1050	17.2	84.4	<0.002	0.03	5.24	7.0	<1	1.9	548	0.87	<0.05	8.52	0.365	1.91
W598585		600	16.2	118.0	<0.002	0.02	1.62	10.6	<1	1.7	407	0.68	<0.05	13.90	0.261	1.15
W598586		580	53.5	113.5	0.002	0.05	3.75	9.9	1	1.9	286	0.69	<0.05	11.25	0.249	1.40
W598587		590	12.3	111.5	<0.002	0.04	2.44	10.4	<1	2.1	312	0.67	<0.05	10.85	0.255	1.37
W598588		360	9580	121.0	<0.002	>10.0	235	7.0	1	11.3	94.3	0.33	1.95	6.73	0.147	1.91
W598589		660	95.4	115.0	<0.002	0.06	2.01	13.6	<1	2.3	372	0.66	<0.05	11.60	0.306	1.19
W598590		510	432	156.0	<0.002	0.72	12.60	9.9	<1	2.2	115.0	0.56	<0.05	11.35	0.226	2.53
W598591		580	14.9	126.5	<0.002	0.08	4.41	10.7	<1	2.0	333	0.63	<0.05	11.75	0.255	1.31
W598592		520	>10000	160.0	<0.002	2.01	65.8	9.3	<1	2.0	193.5	0.53	0.09	11.60	0.222	2.29
W598593		580	206	126.0	<0.002	0.07	2.11	10.9	<1	1.9	356	0.61	<0.05	12.00	0.251	1.40
W598594		600	20.3	121.0	<0.002	0.07	4.15	10.9	1	1.9	322	0.63	<0.05	13.55	0.257	1.38
W598595		580	18.4	117.0	<0.002	0.06	4.04	10.7	<1	1.8	323	0.60	<0.05	12.95	0.250	1.33
W598596		600	19.6	141.0	<0.002	1.31	25.1	11.9	<1	2.4	93.1	0.65	0.83	13.55	0.264	1.75
W598597		600	317	143.5	<0.002	0.25	8.48	10.9	1	2.7	131.0	0.61	0.06	12.45	0.256	2.08
W598598		560	517	155.0	<0.002	0.27	6.35	10.4	1	4.2	154.5	0.59	<0.05	11.85	0.240	2.21
W598599		570	81.2	162.5	<0.002	0.09	5.45	10.3	<1	2.5	216	0.58	<0.05	11.95	0.248	2.17
W598600		520	914	234	<0.002	1.60	20.7	9.8	<1	3.8	71.5	0.58	<0.05	13.55	0.226	3.65
W598601		120	1025	206	<0.002	0.63	10.25	4.5	<1	4.0	82.8	2.13	<0.05	19.60	0.071	2.30
W598602		60	415	194.0	<0.002	0.14	9.38	3.6	<1	4.2	108.5	2.46	<0.05	22.0	0.043	1.84
W598603		340	>10000	172.5	<0.002	2.93	49.6	7.2	1	5.1	100.5	0.89	<0.05	13.05	0.156	2.72
W598604		80	7.8	1.1	<0.002	0.01	0.10	0.2	<1	<0.2	86.0	<0.05	<0.05	0.12	<0.005	0.02
W598605		470	7460	197.5	<0.002	3.99	49.5	8.5	<1	4.7	58.5	0.49	0.06	10.70	0.204	3.02
W598606		600	61.8	146.5	<0.002	0.07	4.70	10.8	<1	2.0	274	0.58	<0.05	12.20	0.261	1.79
W598607		590	203	132.0	<0.002	0.35	5.16	10.1	<1	2.3	112.5	0.57	0.09	11.40	0.253	1.89
W598608		600	1960	159.0	0.002	0.33	7.31	12.5	1	2.7	69.6	0.67	<0.05	13.45	0.269	2.67
W598609		540	12.2	128.5	<0.002	0.30	4.41	9.8	<1	2.4	80.9	0.55	<0.05	11.90	0.233	2.22
W598610		570	416	105.0	<0.002	0.16	9.39	10.2	1	2.6	80.2	0.56	<0.05	11.45	0.234	1.87

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234008

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	1	0.1	0.1	2	0.5	0.005
W598571		3.8	70	2.1	17.4	66	33.8	<0.005
W598572		4.2	60	4.8	11.9	1700	29.1	0.031
W598573		4.2	65	5.1	13.4	872	29.4	0.026
W598574		4.2	68	1.3	17.2	56	32.8	<0.005
W598575		5.4	69	1.2	17.6	55	30.9	0.012
W598576		4.1	69	1.0	17.8	43	29.6	0.014
W598577		7.4	64	3.4	12.4	114	34.1	0.007
W598578		20.8	55	6.2	10.0	1860	43.2	0.196
W598579		3.7	67	2.0	16.6	79	35.1	0.005
W598580		4.4	64	5.9	11.0	2960	28.5	0.654
W598581		3.3	68	1.2	14.3	58	34.9	<0.005
W598582		8.8	51	8.0	13.9	205	124.0	0.026
W598583		6.4	50	2.7	11.8	85	139.5	0.009
W598584		4.5	67	2.2	13.8	80	106.0	<0.005
W598585		5.1	69	0.7	18.7	43	35.0	<0.005
W598586		5.2	68	2.2	15.7	87	33.5	<0.005
W598587		4.2	70	1.6	14.3	52	30.1	<0.005
W598588		4.3	49	4.6	9.5	>10000	22.0	2.81
W598589		4.5	96	2.3	19.4	116	33.8	<0.005
W598590		5.3	63	3.8	14.4	769	28.0	0.068
W598591		4.4	70	1.9	17.2	46	30.4	0.009
W598592		17.6	61	3.6	15.6	1970	26.7	0.231
W598593		4.3	69	2.1	18.0	145	31.4	0.007
W598594		5.0	71	1.6	17.9	55	31.8	0.016
W598595		5.0	69	1.5	17.8	55	31.3	<0.005
W598596		11.0	73	3.8	19.5	79	31.2	0.037
W598597		5.1	70	2.7	14.9	337	31.6	0.030
W598598		6.7	66	3.0	14.6	1210	28.6	0.022
W598599		4.7	67	2.2	14.8	132	30.4	0.006
W598600		51.4	61	5.1	13.7	1980	32.3	0.059
W598601		24.3	13	2.0	13.8	1060	55.7	0.062
W598602		14.0	4	2.6	17.7	303	63.4	0.068
W598603		12.3	42	4.1	9.9	>10000	31.3	0.707
W598604		0.2	<1	0.1	2.0	13	1.4	<0.005
W598605		4.8	58	6.6	9.4	3530	19.1	1.120
W598606		4.4	71	1.9	16.4	76	23.0	<0.005
W598607		4.3	70	2.5	12.4	556	22.6	0.007
W598608		7.3	76	2.5	12.9	564	26.9	0.006
W598609		6.4	66	2.2	10.8	68	25.6	<0.005
W598610		5.1	69	2.1	11.4	289	21.2	0.005

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234008

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-JAN-2021
Account: ROCKHA

CERTIFICATE WH20234016

Project: Klaza

P.O. No.: Batch 59

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 5-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234016

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598777		5.44		0.13	6.61	11.6	610	1.82	0.24	3.54	0.19	53.6	7.7	22	6.16	15.2
W598778		4.88		0.76	7.01	40.2	810	1.74	1.61	2.86	2.09	49.0	6.9	37	6.05	56.4
W598779		5.13		1.77	7.60	37.3	550	1.81	1.82	2.75	1.76	43.9	33.5	15	11.30	653
W598780		5.32		0.83	8.67	29.6	540	1.58	0.58	2.22	0.44	79.5	20.4	12	7.73	568
W598781		0.26	1.490	92.0	4.57	3950	70	0.96	53.7	1.58	196.5	31.8	58.5	36	9.16	1275
W598782		3.22		2.38	7.15	82.3	580	1.45	0.58	3.31	0.38	67.7	24.1	10	9.88	1225
W598783		4.71		1.95	7.35	13.7	150	1.57	0.73	2.68	0.25	44.9	28.6	10	7.55	858
W598784		<0.02		1.83	7.39	12.6	190	1.56	0.73	2.70	0.23	46.3	27.5	10	7.31	858
W598785		5.08		0.77	7.23	15.4	300	1.34	0.73	3.15	0.18	47.2	14.0	11	8.06	236
W598786		3.98		1.36	7.21	12.2	160	1.32	0.85	2.99	0.49	52.3	21.4	11	7.74	515
W598787		0.26		9.53	6.54	1950	210	1.45	5.92	1.79	34.4	44.4	10.9	28	16.80	196.0
W598788		3.79		0.83	7.12	9.1	960	1.27	0.48	3.57	0.19	59.4	15.6	12	6.20	523
W598789		4.84		1.40	7.16	10.3	190	1.33	0.77	3.41	0.26	49.0	27.4	12	7.34	678
W598790		4.92		0.99	7.27	9.6	120	1.31	0.81	3.38	0.20	42.9	28.8	12	8.50	507
W598791		4.85		0.88	6.96	12.5	370	1.54	0.70	3.73	0.15	45.6	23.2	11	9.43	460
W598792		4.27		1.30	7.80	27.7	280	1.76	1.08	2.46	0.29	50.6	27.8	11	11.55	704
W598793		4.17		0.40	7.71	6.1	1770	1.56	0.41	4.19	0.22	27.6	12.4	25	8.70	382
W598794		2.27		0.56	7.87	7.1	1270	1.49	0.49	4.06	0.24	29.2	15.8	26	8.56	509
W598795		4.35		0.47	7.73	5.9	1420	1.39	0.63	4.75	0.29	43.9	18.8	86	7.87	374
W598796		4.40		0.77	7.99	12.3	400	1.81	0.99	3.36	0.23	40.1	24.5	11	9.27	617
W598797		4.02		0.71	7.54	11.2	370	1.64	0.84	2.88	0.25	42.6	26.3	17	7.93	695
W598798		4.41		0.68	7.69	13.4	260	1.71	0.79	3.41	0.23	38.0	36.8	11	8.51	662
W598799		4.84		0.43	7.67	7.1	690	1.50	0.73	3.61	0.12	39.4	32.8	16	9.06	474
W598800		5.86		0.93	8.12	10.6	430	1.75	0.67	2.93	0.16	47.8	34.8	17	8.92	780
W598801		3.52		2.43	8.00	7.8	230	1.37	0.85	3.51	0.36	41.1	40.5	16	7.01	2830
W598802		5.40		0.02	0.12	<0.2	20	0.08	0.07	33.8	0.02	1.08	0.7	2	0.05	7.4
W598803		5.25		0.94	8.07	6.0	300	1.33	0.71	3.67	0.16	51.1	28.4	21	8.25	951
W598804		2.38		6.39	7.50	142.5	170	1.48	6.83	3.80	39.7	48.7	14.7	10	21.1	596
W598805		3.55		1.40	8.18	24.9	800	1.42	1.18	2.34	0.99	65.5	15.5	12	21.5	584
W598806		5.07		0.94	7.80	4.5	1140	1.40	0.44	2.99	0.26	50.0	15.8	13	6.78	641
W598807		4.98		0.36	7.16	17.1	640	1.04	4.60	4.31	1.22	39.4	28.6	173	16.20	9.6
W598808		5.31		0.28	7.24	13.6	270	1.19	3.13	4.31	0.34	38.5	31.5	176	57.5	10.5
W598809		4.34		0.64	7.48	24.0	710	1.37	3.91	4.11	1.40	36.1	28.7	164	69.8	28.9
W598810		7.70		0.50	7.73	23.6	900	1.34	3.07	3.84	0.93	43.9	22.6	119	51.8	35.4
W598811		6.78		0.57	7.30	35.5	200	1.19	13.25	2.89	0.35	41.0	13.4	22	16.70	14.5
W598812		6.54		3.55	7.04	46.4	90	0.99	6.52	2.22	0.25	28.9	14.0	21	10.50	23.8
W598813		3.42		0.56	8.08	58.8	360	1.03	8.96	2.32	0.30	26.2	15.4	5	7.71	30.1
W598814		2.82		2.35	8.45	74.6	360	1.02	5.98	1.22	0.31	24.2	13.8	6	10.20	41.6
W598815		4.52		0.75	7.79	119.0	80	0.93	7.58	2.18	0.27	19.35	16.2	5	7.39	35.3
W598816		5.32		0.38	7.49	36.0	160	1.05	3.69	2.64	0.31	33.3	14.8	16	7.98	32.5

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Finalized Date: 5-JAN-2021
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Project: Klaza

CERTIFICATE OF ANALYSIS WH20234016

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598777		2.44	18.50	0.16	4.4	0.040	1.98	27.5	16.2	1.09	738	2.53	1.87	10.1	8.9	1180
W598778		3.47	18.50	0.17	3.5	0.092	2.39	25.1	18.8	1.03	650	2.61	0.91	8.5	7.8	1280
W598779		4.55	17.55	0.16	0.6	0.224	3.42	23.6	13.6	1.11	701	6.95	0.26	4.1	7.6	1360
W598780		4.60	19.95	0.21	0.7	0.121	2.03	42.4	28.6	0.94	353	17.25	0.57	5.1	6.6	1540
W598781		11.50	11.45	0.13	0.8	4.36	1.97	16.1	27.4	0.54	1940	16.95	0.15	4.3	15.3	360
W598782		5.25	17.65	0.12	0.6	0.179	2.04	35.4	20.6	1.02	931	8.73	0.07	4.8	6.7	1290
W598783		5.84	18.00	0.10	0.7	0.176	2.35	22.4	23.2	1.69	654	7.82	1.15	5.3	6.8	1360
W598784		5.75	17.45	0.11	0.6	0.172	2.32	23.4	23.1	1.72	660	6.83	1.18	5.3	6.4	1360
W598785		5.39	17.30	0.11	0.6	0.191	2.36	23.7	18.9	1.74	972	1.98	1.22	5.7	5.0	1290
W598786		5.90	17.35	0.09	0.6	0.354	2.18	26.2	22.7	1.73	871	8.32	1.25	4.7	5.7	1270
W598787		5.91	15.30	0.06	1.1	0.638	2.88	24.3	44.2	0.75	2020	8.45	0.07	6.5	15.9	510
W598788		4.89	17.50	0.10	0.7	0.264	1.69	30.7	19.8	1.78	451	40.1	1.51	5.4	5.5	1290
W598789		5.59	17.15	0.09	0.5	0.257	1.82	25.4	23.6	1.74	602	5.35	1.50	4.3	6.0	1320
W598790		5.96	16.30	0.09	0.6	0.195	2.03	21.5	26.0	1.68	521	2.11	1.28	4.1	5.5	1350
W598791		4.88	16.40	0.10	0.5	0.125	1.96	23.6	22.3	1.36	572	15.40	1.26	5.0	5.2	1310
W598792		4.26	18.70	0.11	0.5	0.145	3.11	27.2	18.8	1.04	366	6.21	0.78	4.0	6.8	1430
W598793		4.17	19.50	0.08	0.5	0.146	1.72	13.5	20.3	1.90	278	2.21	1.70	5.0	8.4	1450
W598794		4.45	19.70	0.08	0.5	0.156	2.14	14.8	20.7	1.87	284	2.99	1.67	4.9	9.2	1500
W598795		4.83	18.55	0.09	0.6	0.173	1.31	22.3	23.5	2.57	494	52.2	1.64	6.5	20.7	1330
W598796		4.60	18.75	0.11	0.5	0.187	2.54	20.0	22.6	1.64	264	6.98	1.60	5.4	6.6	1390
W598797		4.77	19.75	0.10	0.4	0.258	3.27	21.1	25.1	1.78	239	16.50	1.55	4.5	6.2	1480
W598798		5.27	19.10	0.10	0.5	0.326	2.55	19.8	23.5	1.68	208	6.41	1.93	4.0	5.4	1500
W598799		4.88	19.20	0.09	0.5	0.321	2.01	20.7	24.0	1.98	209	7.55	1.72	6.0	6.4	1070
W598800		4.89	18.00	0.10	0.5	0.429	2.99	25.6	21.4	1.49	226	11.05	1.50	5.5	6.4	900
W598801		6.39	18.80	0.11	0.5	0.742	2.47	20.2	18.4	1.69	195	11.75	2.00	6.2	11.5	1630
W598802		0.14	0.38	<0.05	0.1	<0.005	0.03	1.2	0.9	1.40	95	0.08	0.04	0.2	0.7	70
W598803		6.13	19.60	0.10	0.6	0.439	1.94	25.5	23.1	2.27	309	5.18	1.90	9.2	9.0	1670
W598804		5.18	20.2	0.11	0.4	1.365	3.47	25.7	9.3	0.99	674	8.60	0.13	5.9	4.3	750
W598805		3.25	17.90	0.11	0.4	0.242	3.40	34.4	6.9	0.73	440	12.10	0.81	5.7	4.2	390
W598806		3.48	17.80	0.08	0.5	0.203	2.12	27.0	15.8	1.23	235	6.81	2.10	6.1	5.0	370
W598807		6.91	15.35	0.08	0.7	0.516	1.10	21.4	24.6	1.61	1290	0.77	0.03	6.0	48.3	1090
W598808		7.90	15.65	0.08	0.7	0.439	1.83	20.1	16.2	2.30	1300	0.85	0.48	6.3	53.2	1090
W598809		7.28	16.45	0.09	0.9	0.391	2.02	19.3	19.0	2.78	995	0.68	0.81	6.5	52.3	1130
W598810		6.53	17.30	0.09	1.5	0.275	2.01	23.2	25.1	2.23	904	0.99	0.52	7.2	36.2	1260
W598811		5.77	18.15	0.09	0.6	0.149	2.47	20.7	20.0	1.34	623	3.43	0.05	4.3	7.8	600
W598812		7.04	17.65	0.09	0.5	0.149	2.55	13.5	18.9	1.08	407	2.90	0.05	3.7	8.1	610
W598813		7.18	20.3	0.09	0.4	0.205	2.39	12.2	27.3	0.94	426	0.88	0.05	3.5	3.1	720
W598814		7.17	19.15	0.06	0.4	0.216	2.59	11.3	23.2	0.66	436	1.88	0.04	3.2	3.0	760
W598815		9.11	19.60	0.07	0.3	0.192	2.91	8.2	17.2	1.00	347	1.91	0.07	3.2	3.0	660
W598816		6.46	18.00	0.09	0.4	0.212	2.70	15.5	15.4	1.22	410	2.75	0.87	4.3	6.5	640

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234016

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598777		29.3	70.1	<0.002	0.17	6.61	5.9	<1	1.4	268	0.64	<0.05	7.65	0.316	1.42	3.9
W598778		69.3	95.7	<0.002	1.83	9.50	8.6	4	7.8	481	0.53	0.37	6.74	0.319	2.00	3.1
W598779		68.3	160.0	<0.002	3.89	14.75	17.1	5	15.0	156.0	0.31	0.42	7.93	0.295	3.18	2.8
W598780		26.1	89.7	0.006	3.20	28.5	19.5	6	9.9	252	0.36	0.13	9.56	0.365	1.81	4.3
W598781		9460	114.5	0.002	>10.0	237	6.7	2	11.1	90.5	0.32	1.91	6.56	0.146	2.01	4.4
W598782		24.0	98.0	<0.002	3.55	118.0	15.3	4	10.5	127.0	0.36	0.17	9.34	0.296	1.71	4.7
W598783		22.6	91.8	<0.002	4.00	3.97	18.2	4	9.0	374	0.41	0.15	9.22	0.325	1.91	3.4
W598784		22.5	98.7	0.002	3.89	3.78	17.8	4	8.7	380	0.41	0.15	9.44	0.332	1.80	3.5
W598785		52.0	90.0	0.002	3.32	2.54	15.2	2	8.1	347	0.42	0.19	7.61	0.340	2.07	2.5
W598786		96.4	85.5	0.002	4.10	2.58	16.0	3	9.4	388	0.38	0.22	7.40	0.320	1.70	2.2
W598787		1815	163.0	<0.002	3.39	47.4	9.0	<1	5.9	77.4	0.54	0.29	11.55	0.208	2.63	4.5
W598788		28.6	61.3	0.013	2.20	1.64	18.8	2	9.2	1480	0.47	0.12	9.88	0.356	1.31	3.5
W598789		38.8	75.1	0.002	3.95	2.48	15.8	4	6.8	840	0.33	0.13	7.93	0.319	1.48	2.9
W598790		29.0	88.5	<0.002	4.89	2.93	16.0	6	9.2	412	0.35	0.11	8.53	0.305	1.68	2.4
W598791		17.5	87.1	0.002	3.87	3.78	15.5	4	10.3	384	0.37	0.10	8.32	0.308	1.69	3.1
W598792		20.0	146.0	0.002	3.70	9.50	17.8	4	11.8	475	0.31	0.15	8.85	0.284	2.56	3.7
W598793		15.9	70.1	<0.002	1.60	1.39	18.0	2	4.3	2100	0.33	0.12	7.11	0.372	1.56	3.0
W598794		17.3	83.9	0.003	2.10	1.58	17.4	2	4.9	1545	0.33	0.11	7.60	0.370	1.79	3.3
W598795		18.7	47.6	0.013	2.00	1.26	21.6	2	3.8	925	0.43	0.14	8.07	0.372	1.20	2.7
W598796		16.5	97.5	<0.002	2.87	5.72	17.2	3	7.4	658	0.38	0.32	7.94	0.322	1.82	3.2
W598797		15.7	110.0	0.002	3.34	5.17	17.0	4	9.7	432	0.31	0.29	5.70	0.325	1.85	2.7
W598798		15.3	90.9	<0.002	4.05	2.67	16.4	4	9.8	487	0.28	0.13	6.16	0.318	1.81	3.1
W598799		12.0	75.2	0.002	3.22	1.27	19.3	3	7.7	647	0.40	0.13	6.95	0.355	1.67	2.8
W598800		12.5	127.0	0.003	3.51	3.14	14.7	4	8.3	384	0.42	0.11	9.53	0.268	1.95	3.6
W598801		16.7	85.2	0.006	4.05	0.99	15.4	7	6.0	595	0.45	0.24	6.76	0.346	1.89	3.6
W598802		0.6	1.0	<0.002	0.01	0.05	0.3	1	<0.2	83.6	<0.05	<0.05	0.10	0.008	<0.02	0.2
W598803		14.0	78.0	0.002	3.54	1.77	14.1	5	9.3	784	0.69	0.15	6.74	0.357	1.85	3.1
W598804		1670	152.0	0.003	5.39	18.45	12.0	7	14.5	153.0	0.45	1.06	9.75	0.268	3.20	10.3
W598805		86.3	151.5	0.004	3.13	9.42	12.4	3	7.5	228	0.44	0.35	11.45	0.230	2.87	2.7
W598806		16.2	80.8	0.003	2.18	1.91	11.2	3	6.7	474	0.53	0.10	10.45	0.231	1.53	2.8
W598807		20.6	61.4	0.002	3.30	23.8	27.6	1	9.1	146.0	0.34	0.36	4.68	0.458	1.19	2.6
W598808		23.6	94.9	<0.002	3.28	9.64	28.1	<1	6.0	253	0.36	0.24	5.13	0.457	1.84	2.0
W598809		90.4	104.0	0.003	2.84	7.64	28.2	<1	5.4	348	0.38	0.39	5.39	0.465	1.98	2.8
W598810		59.7	99.6	0.004	2.62	10.00	21.8	1	4.7	258	0.43	0.32	5.56	0.443	1.67	3.2
W598811		29.6	130.0	0.009	4.78	10.45	12.5	2	7.3	101.0	0.30	0.61	6.91	0.251	2.06	2.6
W598812		19.7	131.5	0.008	6.38	10.05	12.3	2	6.8	62.0	0.26	1.33	7.07	0.225	2.09	2.1
W598813		24.3	114.5	0.003	6.20	18.95	15.2	2	5.7	86.2	0.22	3.12	3.78	0.296	2.10	2.1
W598814		27.2	130.0	0.003	5.70	15.35	13.5	1	5.1	61.0	0.23	1.29	4.28	0.294	2.29	2.2
W598815		32.9	113.5	0.009	8.46	14.05	14.6	2	7.7	66.0	0.22	1.80	3.40	0.287	2.33	2.0
W598816		20.2	119.0	0.008	5.10	4.62	14.3	2	7.2	138.0	0.31	0.73	6.50	0.282	2.41	2.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 5-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234016

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598777		61	1.8	9.3	149	170.0	0.008
W598778		84	8.5	9.6	222	128.0	0.033
W598779		149	11.1	13.9	171	11.8	0.070
W598780		171	7.5	18.6	81	13.1	0.063
W598781		48	4.7	9.2	>10000	20.8	2.82
W598782		151	6.7	15.7	139	12.0	0.095
W598783		162	6.5	14.5	102	12.3	0.069
W598784		160	6.4	14.9	101	11.7	0.071
W598785		152	4.8	13.5	143	10.8	0.033
W598786		149	5.1	14.7	137	11.0	0.084
W598787		64	6.3	11.5	2920	29.2	0.634
W598788		159	3.1	18.1	78	13.2	0.086
W598789		151	5.4	15.3	87	10.3	0.085
W598790		152	6.3	13.7	76	10.3	0.063
W598791		145	5.9	13.6	80	10.6	0.054
W598792		156	7.9	14.2	77	10.6	0.114
W598793		158	3.6	14.8	74	9.5	0.054
W598794		157	4.4	15.3	73	9.8	0.064
W598795		171	3.6	18.7	85	12.1	0.040
W598796		152	6.8	15.7	65	9.6	0.077
W598797		155	6.1	15.5	67	8.9	0.135
W598798		160	6.7	14.8	64	9.8	0.098
W598799		157	6.4	13.7	56	11.0	0.057
W598800		115	6.0	13.5	57	13.2	0.091
W598801		173	4.7	17.3	62	12.1	0.387
W598802		1	0.1	2.2	5	1.8	0.009
W598803		144	3.0	17.1	84	14.3	0.116
W598804		96	10.2	12.7	3260	8.6	0.216
W598805		74	8.7	9.8	118	9.4	0.073
W598806		89	4.1	12.1	66	10.1	0.093
W598807		184	13.2	18.1	145	19.8	0.069
W598808		188	4.2	18.6	142	20.4	0.043
W598809		189	6.5	15.0	243	29.2	0.027
W598810		160	6.0	15.4	183	61.0	0.030
W598811		111	7.7	15.7	66	20.3	0.051
W598812		108	34.2	14.3	51	15.1	0.081
W598813		140	8.8	16.9	67	11.5	0.133
W598814		135	21.7	15.3	75	10.6	0.123
W598815		139	8.8	15.1	67	8.7	0.113
W598816		133	5.0	16.4	65	13.2	0.090

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To: **ROCKHAVEN RESOURCES LTD.**
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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 5-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234016

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234019

Project: Klaza

P.O. No.: Batch 60

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20234019

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598611		4.93		1.89	6.97	17.2	1650	1.37	0.24	2.12	19.45	55.6	6.8	8	12.75	28.7
W598612		5.60		20.5	6.90	32.5	1360	1.55	0.46	1.82	31.3	39.7	3.8	8	8.41	45.3
W598613		7.42		0.28	7.30	17.8	2490	1.58	0.16	2.09	0.25	63.4	2.7	8	13.70	4.8
W598614		7.27		0.18	7.37	12.2	2750	1.64	0.24	3.01	0.17	47.9	5.0	8	13.00	23.2
W598615		3.13		0.23	6.84	14.4	3050	1.56	0.31	4.03	0.18	56.8	6.1	8	8.94	11.0
W598616		7.51		0.19	7.38	17.2	1760	1.89	0.16	2.19	0.16	45.0	3.4	10	18.55	2.7
W598617		5.42		0.01	0.15	<0.2	30	0.09	0.04	34.5	0.02	0.89	0.9	1	0.05	2.3
W598618		7.88		0.32	6.37	13.8	2060	1.60	0.13	3.74	1.43	47.8	4.4	8	14.75	3.2
W598619		3.01		0.30	3.14	11.7	1630	0.80	0.08	18.80	1.37	17.80	7.0	4	6.23	3.1
W598620		2.72		0.34	2.66	12.0	2450	0.74	0.12	22.7	1.80	26.4	6.2	3	8.99	2.8
W598621		0.26	1.435	89.3	4.48	3660	70	0.94	51.8	1.53	190.5	29.5	56.8	34	8.10	1210
W598622		8.90		0.45	7.41	34.2	2580	1.55	0.21	2.14	0.58	45.0	5.1	9	11.00	3.2
W598623		9.26		0.13	7.49	19.4	2670	1.46	0.13	2.68	0.11	41.4	4.6	12	7.43	2.9
W598624		2.51		11.10	6.67	208	150	1.38	0.50	2.21	116.5	41.4	6.4	9	10.15	102.5
W598625		7.77		0.50	7.46	26.6	1650	1.53	0.10	2.54	3.04	40.5	4.0	11	19.45	8.0
W598626		7.27		0.20	7.97	8.3	2310	1.53	0.07	2.48	0.90	49.8	4.9	11	8.32	4.3
W598627		2.84		2.51	7.67	9.7	2380	1.49	0.06	2.41	0.63	49.4	4.5	11	13.90	4.3
W598628		0.95		0.83	7.73	9.8	2140	1.64	0.09	2.99	0.33	44.0	7.5	12	10.25	7.1
W598629		6.56		0.09	8.46	9.2	2680	1.51	0.08	1.99	0.09	58.7	5.8	10	7.93	5.7
W598630		5.05		0.27	8.25	18.7	2740	1.26	0.08	1.49	0.49	55.8	4.9	9	15.40	12.0
W598631		4.67		0.31	8.04	18.5	1860	1.37	0.11	1.25	2.21	49.4	9.1	8	10.05	7.2
W598632		7.11		0.37	6.79	20.4	4010	1.46	0.15	2.88	1.00	41.4	7.9	7	10.65	3.8
W598633		3.19		20.8	6.87	69.6	690	1.44	0.16	2.50	53.6	41.5	2.7	7	13.35	47.5
W598634		<0.02		27.5	7.03	68.5	1350	1.63	0.17	2.44	50.7	43.9	2.9	8	14.55	42.9
W598635		8.24		0.12	8.11	11.1	2190	1.69	0.12	2.10	0.12	52.6	4.1	9	8.81	3.2
W598636		8.68		0.74	8.10	10.7	3260	1.54	0.14	2.33	0.61	46.0	5.7	9	9.67	6.3
W598637		3.97		0.94	7.63	44.3	1670	1.65	0.14	2.36	0.86	47.8	5.6	13	21.1	5.8
W598638		2.75		2.10	7.18	138.0	1270	1.63	0.26	2.66	5.14	48.0	4.4	8	16.30	5.8
W598639		2.24		3.87	6.87	1100	1130	1.57	0.20	4.70	9.71	50.4	5.9	7	20.7	8.3
W598640		6.09		0.22	8.70	14.7	1920	1.26	0.14	1.15	0.44	59.7	6.8	7	15.75	11.8
W598641		2.61		15.45	7.09	13.2	2280	1.58	0.12	2.67	1.94	38.7	5.5	8	23.8	10.0
W598642		0.26		10.50	6.73	1865	150	1.52	5.29	1.80	34.8	46.2	10.4	29	16.50	197.0
W598643		8.05		0.30	7.30	10.5	2120	1.31	0.10	2.15	0.56	41.2	7.0	9	16.20	6.8
W598644		7.40		0.12	7.72	7.1	2160	1.68	0.08	2.76	0.12	46.0	6.2	11	21.9	10.5
W598645		2.26	2.69	22.8	6.68	702	160	1.68	0.21	1.74	426	38.4	6.7	8	16.95	308
W598646		3.53		0.13	7.74	5.1	2110	1.69	0.07	2.68	0.60	51.1	6.2	10	18.35	9.7
W598647		2.42		19.00	7.27	27.5	1860	1.68	0.22	1.94	23.9	43.7	5.5	8	21.5	15.6
W598648		2.98		8.20	7.90	71.7	1830	1.51	0.19	1.95	36.8	57.6	5.1	9	20.4	68.6
W598649		6.59		0.13	7.69	9.4	2270	1.61	0.11	2.17	0.26	48.7	7.7	9	20.0	5.2
W598650		6.27		0.30	7.98	7.1	2250	1.45	0.10	1.85	2.13	45.5	6.1	9	20.2	8.3

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CERTIFICATE OF ANALYSIS WH20234019

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598611		4.24	16.00	0.08	0.9	0.142	3.12	30.2	53.3	0.90	2080	0.16	0.09	7.5	1.6	540
W598612		4.56	13.95	<0.05	0.7	0.240	3.29	20.8	36.0	0.88	2330	0.93	0.04	6.0	3.5	510
W598613		3.05	13.85	0.12	0.9	0.125	3.19	33.1	58.0	0.89	1220	0.67	0.05	7.1	2.0	550
W598614		3.82	15.45	0.12	0.9	0.145	3.29	23.5	31.9	0.72	966	0.29	0.24	7.1	2.1	590
W598615		4.00	16.50	0.09	0.9	0.274	3.21	29.5	20.5	1.01	1600	0.24	0.06	6.4	1.6	510
W598616		3.24	16.25	0.13	1.0	0.083	3.17	21.6	121.5	0.64	1140	0.54	0.06	7.9	1.4	580
W598617		0.10	0.38	<0.05	<0.1	<0.005	0.07	0.9	1.4	1.52	95	0.06	0.06	0.4	<0.2	60
W598618		3.56	13.10	0.08	0.8	0.101	2.97	25.2	28.4	1.02	1720	0.26	0.04	6.3	1.0	480
W598619		1.93	7.00	<0.05	0.4	0.078	1.37	8.1	20.4	0.61	1530	0.40	0.05	2.7	<0.2	260
W598620		1.92	5.50	<0.05	0.3	0.042	1.15	14.7	24.7	0.62	2900	0.24	0.02	2.5	<0.2	210
W598621		11.25	10.00	<0.05	0.6	3.92	1.88	15.1	25.6	0.52	1850	15.10	0.15	3.7	12.9	360
W598622		3.99	14.75	0.07	0.8	0.052	3.13	22.9	29.6	0.84	1390	0.22	0.74	7.1	1.9	620
W598623		3.55	14.45	0.10	0.8	0.066	3.19	19.5	13.3	0.81	1020	0.26	1.60	6.9	1.6	590
W598624		5.37	13.40	0.06	0.7	0.223	3.27	20.3	9.6	0.94	3270	0.69	0.03	6.3	1.7	520
W598625		3.18	14.75	0.10	0.9	0.051	3.24	18.6	32.2	0.83	1140	0.72	0.97	7.3	1.6	620
W598626		3.43	15.40	0.17	0.9	0.047	2.88	24.7	9.8	0.99	917	2.26	2.42	7.6	1.8	640
W598627		3.46	15.15	0.20	0.9	0.051	3.10	24.4	18.8	0.91	986	1.38	2.03	7.6	1.8	640
W598628		3.87	15.90	0.15	0.9	0.077	2.84	21.3	19.5	1.13	1080	1.26	2.16	8.7	2.7	680
W598629		3.45	17.60	0.22	0.9	0.064	3.28	30.6	15.2	0.98	650	1.01	1.81	8.6	2.1	670
W598630		3.29	15.65	0.18	0.9	0.057	3.62	28.1	34.1	0.88	1310	1.09	0.09	7.7	1.9	630
W598631		3.27	14.70	0.20	1.2	0.054	2.90	25.2	37.8	0.78	1080	0.87	0.07	8.4	2.4	600
W598632		3.39	13.60	0.16	0.9	0.073	2.58	20.9	95.1	0.82	1710	0.21	0.04	6.6	1.6	500
W598633		4.47	12.75	0.15	0.7	0.142	2.93	22.2	38.5	1.11	2160	0.18	0.05	6.1	1.4	510
W598634		4.55	14.25	0.18	0.8	0.158	3.01	23.3	43.2	1.10	2190	0.22	0.05	6.6	1.5	510
W598635		3.65	16.85	0.22	0.9	0.065	3.19	27.0	29.4	0.80	640	0.15	0.49	8.1	1.5	640
W598636		3.26	16.70	0.23	0.9	0.059	3.49	22.7	23.6	0.63	879	0.65	1.06	8.1	1.5	610
W598637		3.38	15.65	0.22	0.9	0.059	3.22	23.2	31.1	0.86	1360	0.76	0.06	7.9	1.8	650
W598638		3.26	14.15	0.22	0.8	0.066	3.19	23.9	25.9	0.99	1400	0.45	0.04	6.8	1.3	550
W598639		3.82	13.75	0.25	0.7	0.051	2.98	26.9	26.0	1.52	3310	0.78	0.05	6.4	1.1	540
W598640		3.58	15.95	0.23	1.0	0.061	3.03	30.2	50.0	0.76	911	0.95	0.09	8.7	1.9	860
W598641		3.13	14.80	0.24	0.9	0.032	2.88	18.8	50.6	0.85	1020	0.74	0.15	6.7	1.4	550
W598642		6.08	14.00	0.20	0.9	0.617	2.97	23.8	42.3	0.76	2050	8.08	0.07	5.6	15.1	510
W598643		3.07	15.20	0.25	0.9	0.046	3.08	20.0	38.2	0.62	859	0.92	0.35	7.3	1.5	610
W598644		3.02	14.95	0.23	1.0	0.038	2.87	22.3	20.2	0.73	643	1.03	2.07	7.7	1.9	600
W598645		4.42	13.10	0.22	0.8	1.955	3.03	20.6	14.9	0.71	1460	1.25	0.08	5.6	1.7	490
W598646		2.88	15.15	0.26	1.0	0.040	2.76	24.9	14.7	0.69	552	0.82	2.00	7.4	1.4	570
W598647		3.49	14.45	0.23	1.0	0.122	3.10	22.2	31.3	0.73	2010	1.90	0.28	6.6	1.4	540
W598648		3.59	15.05	0.11	1.1	0.275	3.08	31.7	38.9	0.60	2390	1.08	0.06	8.2	2.1	610
W598649		2.89	15.25	0.12	1.0	0.040	2.77	25.7	18.0	0.66	659	1.15	1.25	8.1	2.3	600
W598650		2.98	15.25	0.11	0.8	0.040	2.96	24.4	37.8	0.62	542	1.14	0.83	7.4	2.1	630

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234019

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598611		1195	137.5	<0.002	0.29	11.00	9.6	<1	2.6	72.8	0.61	<0.05	13.30	0.229	2.28	5.1
W598612		8870	155.0	<0.002	0.87	16.75	8.2	<1	2.6	52.3	0.50	0.06	10.85	0.207	2.30	5.0
W598613		39.0	118.5	<0.002	0.21	8.85	8.9	<1	2.0	101.0	0.59	<0.05	12.75	0.244	2.28	6.1
W598614		13.1	105.5	<0.002	0.16	5.01	9.2	<1	4.7	127.0	0.58	<0.05	11.50	0.249	1.63	4.2
W598615		8.3	135.0	<0.002	0.18	4.57	9.7	<1	4.0	112.0	0.56	<0.05	11.70	0.210	2.05	5.9
W598616		40.1	110.5	<0.002	0.12	10.95	9.9	<1	1.9	134.5	0.65	<0.05	12.25	0.255	2.11	5.8
W598617		0.8	1.7	<0.002	<0.01	0.06	0.2	<1	<0.2	79.4	0.05	<0.05	0.11	0.005	0.02	0.3
W598618		120.5	133.5	<0.002	0.23	8.71	8.8	<1	2.3	80.1	0.52	<0.05	11.35	0.201	2.21	4.3
W598619		75.9	70.0	<0.002	0.38	14.55	4.9	1	1.2	405	0.21	<0.05	5.51	0.092	1.00	5.5
W598620		72.8	57.8	<0.002	0.24	11.55	4.0	<1	0.8	497	0.21	0.06	4.89	0.085	0.86	7.2
W598621		8930	103.0	0.002	>10.0	226	5.8	2	9.2	82.1	0.30	1.79	6.41	0.132	1.58	4.3
W598622		26.7	134.5	<0.002	0.38	6.69	9.5	<1	1.7	107.5	0.56	0.10	10.40	0.252	1.94	4.6
W598623		11.9	125.5	<0.002	0.16	2.95	9.2	<1	1.5	238	0.53	<0.05	9.88	0.251	1.55	3.8
W598624		2170	178.5	<0.002	2.33	11.15	8.5	<1	2.7	50.5	0.49	0.06	8.83	0.225	2.64	4.6
W598625		129.0	119.5	<0.002	0.27	7.41	9.5	<1	1.6	205	0.59	<0.05	10.20	0.268	1.91	3.6
W598626		57.2	110.0	<0.002	0.04	2.67	10.1	<1	1.5	419	0.58	<0.05	11.45	0.275	1.17	4.2
W598627		791	117.0	0.002	0.05	4.00	10.6	<1	1.6	415	0.59	<0.05	10.50	0.278	1.35	3.8
W598628		62.9	108.5	<0.002	0.04	3.25	13.0	<1	2.3	392	0.60	<0.05	10.05	0.303	1.23	3.9
W598629		15.6	138.5	<0.002	0.02	5.20	12.2	<1	1.9	313	0.67	<0.05	14.40	0.289	1.31	3.8
W598630		39.3	156.5	<0.002	0.14	11.40	10.2	<1	1.9	105.5	0.61	<0.05	12.40	0.274	1.77	3.2
W598631		82.3	131.0	<0.002	0.19	12.05	9.1	<1	2.0	76.2	0.76	<0.05	19.70	0.256	1.45	5.4
W598632		103.0	104.0	<0.002	0.23	20.3	8.5	<1	1.6	128.5	0.60	<0.05	11.70	0.212	1.66	5.2
W598633		8910	135.5	<0.002	0.89	14.20	8.5	<1	1.7	96.0	0.51	<0.05	10.30	0.219	1.93	9.5
W598634		7610	150.5	<0.002	0.82	14.95	9.6	<1	1.9	98.2	0.58	<0.05	11.35	0.223	2.12	10.5
W598635		19.3	127.0	<0.002	0.13	7.70	10.8	<1	1.5	123.5	0.66	<0.05	12.95	0.271	1.44	3.8
W598636		280	141.0	<0.002	0.10	7.38	10.3	1	1.6	224	0.63	<0.05	11.95	0.270	1.47	4.0
W598637		212	110.5	<0.002	0.26	10.20	10.1	<1	1.5	120.5	0.61	<0.05	11.10	0.282	2.18	4.4
W598638		699	150.0	<0.002	0.44	12.70	9.0	<1	1.4	88.7	0.58	<0.05	11.15	0.239	2.15	5.3
W598639		1025	150.5	<0.002	0.71	28.4	9.6	<1	1.5	124.0	0.49	<0.05	10.85	0.233	2.11	4.1
W598640		33.7	127.5	<0.002	0.06	12.40	11.9	1	1.8	88.6	0.66	<0.05	14.50	0.351	1.24	4.7
W598641		5040	95.6	<0.002	0.19	12.60	8.8	<1	1.3	144.0	0.54	<0.05	10.50	0.235	1.46	4.0
W598642		1800	155.0	0.002	3.45	47.1	8.3	1	5.5	75.4	0.45	0.40	10.55	0.205	2.37	4.4
W598643		46.3	101.0	<0.002	0.07	9.96	9.8	<1	1.4	124.0	0.58	<0.05	10.40	0.259	1.27	3.0
W598644		18.6	105.0	<0.002	0.04	3.46	9.5	1	1.8	354	0.66	<0.05	12.00	0.265	1.05	4.5
W598645		2300	156.5	<0.002	3.48	40.2	8.1	1	3.3	66.7	0.44	<0.05	8.89	0.203	2.36	4.4
W598646		19.1	103.5	<0.002	0.02	2.71	9.3	<1	1.6	360	0.63	<0.05	14.10	0.255	0.96	4.5
W598647		9290	127.0	<0.002	0.46	23.1	8.8	<1	1.7	117.0	0.56	<0.05	11.60	0.230	1.93	5.5
W598648		2340	154.0	<0.002	0.73	16.70	11.0	<1	1.9	101.5	0.68	<0.05	15.80	0.260	1.99	3.7
W598649		22.9	122.0	<0.002	0.05	5.24	10.4	<1	1.4	294	0.62	<0.05	14.50	0.256	1.20	4.0
W598650		112.5	122.5	<0.002	0.06	5.51	10.2	<1	1.5	238	0.56	<0.05	12.05	0.263	1.23	4.2

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 29-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234019

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598611		67	2.4	12.1	1340	22.8	0.012
W598612		64	2.4	10.8	2200	19.8	0.232
W598613		64	2.4	11.9	68	27.4	<0.005
W598614		70	1.9	10.4	80	26.6	<0.005
W598615		67	2.5	14.2	76	23.8	<0.005
W598616		70	1.9	12.3	56	30.0	<0.005
W598617		1	0.1	2.0	4	1.5	<0.005
W598618		60	1.9	11.3	154	22.2	0.008
W598619		39	1.1	8.9	113	9.9	0.007
W598620		27	1.3	16.0	142	8.2	0.008
W598621		47	3.9	7.9	>10000	18.4	2.95
W598622		69	2.0	11.3	96	22.3	0.033
W598623		68	1.2	11.8	61	22.6	0.008
W598624		62	3.6	8.9	7470	16.8	0.348
W598625		72	2.4	12.7	248	23.8	0.009
W598626		74	1.4	16.7	98	26.3	<0.005
W598627		76	1.7	16.8	93	24.5	0.007
W598628		85	1.6	18.9	83	24.7	<0.005
W598629		77	3.5	18.6	51	27.6	<0.005
W598630		72	7.6	15.2	89	24.2	0.007
W598631		64	6.6	14.1	201	32.3	0.007
W598632		64	1.8	12.9	132	24.4	0.013
W598633		60	2.4	12.5	3610	17.1	0.123
W598634		62	2.4	13.0	3250	19.7	0.100
W598635		71	3.0	14.2	71	24.9	<0.005
W598636		71	3.2	14.7	90	26.2	0.006
W598637		77	4.1	14.4	118	26.7	0.015
W598638		66	3.4	14.7	405	23.2	0.025
W598639		67	4.1	16.5	706	19.3	0.183
W598640		96	8.4	17.7	81	27.1	0.005
W598641		65	4.1	13.8	166	25.6	0.020
W598642		64	5.2	10.9	2910	26.4	0.615
W598643		72	3.8	15.6	82	25.9	<0.005
W598644		71	1.7	16.4	49	27.4	<0.005
W598645		56	5.0	11.1	>10000	21.4	0.423
W598646		66	1.4	16.3	99	27.5	<0.005
W598647		65	2.5	14.1	1690	25.1	0.041
W598648		74	2.9	15.5	2900	28.3	0.111
W598649		71	1.4	16.6	64	28.0	<0.005
W598650		73	3.5	15.0	186	23.6	<0.005

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 29-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234019

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 3-JAN-2021
Account: ROCKHA

CERTIFICATE WH20234027

Project: Klaza

P.O. No.: Batch 61

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234027

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598817		5.08		0.47	7.16	66.4	270	1.14	5.55	3.45	0.38	51.5	21.5	82	15.45	28.8
W598818		8.20		0.60	8.11	46.0	680	1.44	6.88	2.23	0.53	53.1	18.6	91	15.30	48.1
W598819		7.85		0.41	7.54	22.7	810	1.19	1.45	2.74	1.46	49.5	8.5	13	19.00	41.8
W598820		8.45		0.12	6.81	7.1	1260	1.37	0.54	3.21	0.17	52.6	9.8	9	9.35	31.2
W598821		7.97		0.10	6.90	5.3	1330	1.42	0.40	2.91	0.23	42.4	8.8	13	10.10	17.1
W598822		7.48		0.13	7.78	5.8	1460	1.49	0.44	2.32	0.15	43.9	9.9	11	12.00	40.1
W598823		0.26		9.55	6.74	1945	230	1.52	5.24	1.78	35.1	42.7	10.4	29	14.70	199.0
W598824		8.10		0.19	7.77	15.5	990	1.27	0.86	2.29	0.22	47.2	15.2	14	8.66	52.1
W598825		6.32		0.15	7.33	6.5	1200	1.23	0.49	1.75	0.19	40.1	7.1	10	9.53	34.5
W598826		6.59		0.41	7.82	23.7	940	1.29	1.62	2.21	0.29	48.9	9.5	14	10.35	66.9
W598827		7.18		0.30	7.09	14.7	970	1.33	1.65	2.67	0.40	55.5	10.0	11	11.90	23.8
W598828		6.23		0.15	6.91	4.4	1050	1.01	0.65	2.62	0.17	43.6	9.9	12	10.75	39.4
W598829		0.26	1.465	92.4	4.69	3940	550	1.02	51.5	1.56	198.0	31.5	60.5	36	9.26	1270
W598830		6.41		0.20	7.55	6.7	990	1.42	1.13	3.19	0.23	41.9	9.4	14	11.85	17.8
W598831		2.79		0.14	7.95	5.1	540	1.52	0.84	1.56	0.22	38.4	11.2	14	11.50	19.2
W598832		4.87		0.15	7.76	4.1	780	1.14	0.66	1.91	0.22	38.8	9.9	11	11.25	8.6
W598833		7.17		0.16	7.42	5.1	570	1.00	0.94	1.83	0.25	39.2	8.9	12	8.24	14.4
W598834		4.98		<0.01	0.11	0.2	40	0.06	0.01	33.7	<0.02	1.24	0.5	1	0.07	2.5
W598835		7.02		0.13	7.46	8.5	1100	1.23	0.43	2.40	0.14	48.9	9.2	12	10.50	17.8
W598836		7.48		0.15	7.01	7.7	1060	1.50	0.71	2.27	0.32	44.5	6.2	10	10.20	27.2
W598837		7.57		0.61	7.15	30.3	1050	1.13	1.82	1.71	0.26	33.8	7.6	13	9.26	131.5
W598838		4.77		0.54	7.06	143.5	610	1.37	1.93	2.43	0.36	52.8	7.7	11	16.70	105.5
W598839		2.86		3.42	5.18	191.0	1100	1.38	13.90	1.29	10.00	23.0	9.7	10	51.9	83.8
W598840		7.37		0.17	6.98	9.3	1030	0.95	1.12	1.86	0.24	35.0	9.3	12	8.24	27.1
W598841		<0.02		0.18	7.14	9.4	1240	0.97	1.06	1.82	0.24	40.5	9.7	14	8.79	25.4
W598842		5.57		0.45	7.09	17.4	810	1.11	3.06	1.84	0.37	39.1	8.0	10	8.51	16.0
W598843		5.00		0.96	6.46	102.5	540	1.16	1.91	2.65	4.88	41.3	7.2	10	21.7	42.9
W598844		6.58		1.76	6.26	119.0	720	1.65	6.20	2.61	5.67	48.0	4.2	9	28.3	192.0
W598845		5.07		1.46	5.59	106.5	880	1.55	7.38	2.29	1.25	48.1	3.0	9	15.55	200
W598846		4.53		0.93	6.66	69.5	2200	1.85	19.70	2.26	0.43	59.2	4.4	10	14.05	245
W598847		5.71		0.56	6.84	1090	1120	2.07	2.99	2.77	0.50	49.6	2.0	10	9.59	98.4
W598848		6.73		0.33	6.85	413	1610	1.96	2.54	2.78	0.44	50.5	4.2	12	10.00	100.5
W598849		8.41		0.38	6.70	703	1550	1.93	3.10	2.64	0.85	49.9	4.6	10	7.31	109.0
W598850		9.51		0.30	6.89	77.6	1330	1.85	3.22	2.54	0.58	45.2	2.2	11	8.22	131.0
W598851		8.55		0.34	6.65	164.5	1660	1.69	13.10	2.45	0.74	44.9	3.3	11	7.22	128.0
W598852		5.18		0.36	6.57	436	1490	1.67	4.89	2.23	2.36	44.1	3.2	11	11.50	96.1
W598853		5.43		1.39	6.44	151.5	310	1.51	3.52	2.72	0.83	47.0	7.0	9	13.00	137.0
W598854		3.39		2.39	6.19	195.0	430	1.39	4.06	3.48	0.95	47.5	6.7	10	11.85	138.5
W598855		8.92		0.76	6.77	77.7	290	1.60	0.83	3.45	0.39	53.6	9.7	20	13.05	64.6
W598856		7.46		0.22	6.55	40.0	160	1.43	0.18	3.63	0.17	53.2	8.0	22	9.30	9.8

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS WH20234027

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598817		6.34	15.90	0.14	0.7	0.286	1.97	27.5	27.1	1.30	691	1.91	0.13	4.9	20.9	960
W598818		5.19	19.40	0.11	1.5	0.684	1.26	26.7	42.0	0.83	691	1.52	0.03	6.6	23.6	1120
W598819		3.75	16.65	0.09	0.6	0.126	2.45	27.1	26.6	0.96	495	3.73	0.11	6.3	4.9	480
W598820		3.07	14.75	0.14	0.6	0.032	3.05	27.9	16.9	0.85	300	1.89	0.84	8.6	3.8	370
W598821		3.18	14.95	0.12	0.6	0.020	2.58	21.3	17.7	0.68	315	1.36	1.11	6.6	4.4	430
W598822		2.98	17.35	0.12	0.5	0.032	2.34	22.5	19.7	0.57	250	1.48	0.91	7.1	4.0	540
W598823		5.90	14.30	0.07	1.0	0.629	2.93	22.1	37.7	0.76	2030	8.05	0.07	6.2	15.5	510
W598824		4.36	16.55	0.08	0.5	0.058	2.58	25.6	23.1	0.72	370	1.24	0.68	7.2	5.4	520
W598825		2.61	16.15	0.09	0.6	0.043	2.36	20.2	28.5	0.53	259	0.59	0.13	8.2	2.9	610
W598826		3.82	17.10	0.10	0.6	0.070	2.04	26.3	30.7	0.78	410	5.58	0.06	7.6	4.6	590
W598827		3.52	16.05	0.13	0.4	0.101	2.91	30.2	19.3	0.98	468	1.67	0.26	6.9	4.1	430
W598828		2.93	14.95	0.11	0.5	0.031	2.54	22.8	19.7	0.81	269	4.02	0.45	5.5	4.5	490
W598829		11.35	12.05	0.10	0.8	4.43	1.94	14.9	30.2	0.54	1900	17.50	0.15	4.5	14.7	370
W598830		2.88	17.10	0.11	0.5	0.043	2.24	20.4	21.0	1.06	266	2.59	0.71	7.9	4.1	540
W598831		3.35	16.05	0.12	0.5	0.048	3.50	19.5	12.4	0.49	186	5.29	1.51	5.8	4.3	510
W598832		2.97	14.90	0.08	0.5	0.030	2.95	19.7	17.4	0.63	202	2.42	0.88	6.1	3.8	470
W598833		3.58	15.75	0.10	0.5	0.050	3.43	20.5	19.5	0.66	227	3.61	0.66	4.9	4.4	460
W598834		0.13	0.32	0.05	0.1	<0.005	0.04	1.2	1.1	1.73	113	<0.05	0.04	0.1	0.2	70
W598835		3.90	15.20	0.09	0.5	0.045	2.60	26.1	18.8	1.00	330	2.64	0.57	7.1	4.3	480
W598836		3.21	15.60	0.13	0.7	0.061	2.03	24.0	19.0	0.65	193	0.31	1.18	7.4	4.0	470
W598837		3.23	16.90	0.11	0.7	0.095	2.30	17.4	22.9	0.55	367	0.39	0.10	8.0	3.9	520
W598838		3.00	15.90	0.13	0.6	0.125	2.73	29.2	12.8	1.01	1200	0.26	0.05	7.7	4.5	500
W598839		10.05	13.90	0.10	0.5	0.204	1.83	12.2	26.1	0.58	474	2.74	0.04	3.6	4.4	320
W598840		3.24	15.75	0.11	0.6	0.074	1.94	17.0	35.4	0.59	284	2.12	0.05	7.4	3.9	550
W598841		3.58	16.00	0.13	0.5	0.066	1.91	21.4	35.6	0.59	319	1.66	0.05	7.5	4.6	530
W598842		2.94	16.30	0.12	0.6	0.098	1.01	19.9	40.5	0.62	401	0.84	0.03	7.7	3.7	510
W598843		3.92	14.15	0.10	0.5	0.137	1.59	23.7	36.1	1.06	1860	3.35	0.02	5.9	4.3	420
W598844		2.44	15.10	0.14	1.4	0.262	2.33	27.1	25.4	0.97	1230	3.81	0.03	7.3	2.8	500
W598845		2.10	14.10	0.14	1.4	0.137	2.39	26.4	23.2	1.03	929	5.02	0.03	6.7	2.4	420
W598846		1.91	16.70	0.15	1.6	0.083	2.90	32.9	18.3	0.92	373	3.33	0.04	7.2	2.1	480
W598847		2.41	18.25	0.13	1.6	0.057	2.46	25.3	31.9	0.84	291	1.97	0.04	7.5	2.7	570
W598848		2.66	18.15	0.15	1.7	0.046	2.42	26.5	28.0	0.87	301	3.76	0.04	8.1	3.3	550
W598849		2.53	18.50	0.14	1.7	0.035	2.29	25.7	32.2	0.82	269	3.28	0.04	8.4	2.6	560
W598850		2.65	18.40	0.12	1.7	0.052	2.31	22.9	31.5	0.79	271	3.77	0.04	8.0	4.1	570
W598851		2.44	17.35	0.11	1.7	0.064	2.02	23.1	39.4	0.78	254	8.15	0.03	8.3	2.8	550
W598852		2.46	16.50	0.12	1.6	0.119	1.76	23.9	46.2	0.72	299	8.14	0.03	7.3	3.3	530
W598853		3.78	17.45	0.14	1.2	0.076	2.21	24.4	29.2	1.05	1540	10.40	0.04	7.0	4.5	500
W598854		4.60	16.35	0.15	1.2	0.062	2.05	26.3	28.2	1.35	2740	9.82	0.04	6.8	5.0	450
W598855		3.30	17.35	0.13	2.9	0.046	1.79	29.5	52.8	1.31	806	2.65	0.04	8.7	9.2	1110
W598856		3.01	16.50	0.15	3.2	0.030	1.66	28.4	59.0	1.34	712	1.79	0.05	8.8	10.4	1110

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598817		26.5	103.0	0.014	4.92	28.8	16.9	1	10.8	137.0	0.28	0.53	5.42	0.349	1.80	4.5
W598818		25.8	57.9	0.003	2.82	30.2	19.3	<1	8.6	125.0	0.36	0.35	5.93	0.417	1.30	4.2
W598819		63.8	125.5	0.005	2.46	16.35	10.8	3	7.6	123.5	0.53	0.16	12.80	0.219	2.00	3.4
W598820		19.1	117.5	0.007	1.98	7.84	8.8	2	1.9	244	0.84	0.08	11.55	0.210	1.41	2.6
W598821		18.4	93.4	0.003	1.69	5.55	9.9	1	1.6	241	0.67	<0.05	11.75	0.216	1.30	2.7
W598822		15.3	85.1	0.008	1.49	7.83	11.6	1	2.7	230	0.51	0.07	11.65	0.258	1.29	2.4
W598823		1800	159.5	0.003	3.45	45.4	8.7	1	6.1	76.6	0.46	0.20	10.30	0.214	2.46	4.0
W598824		17.8	115.5	0.003	2.37	18.70	10.9	3	4.5	165.0	0.55	0.17	13.30	0.247	1.48	2.7
W598825		14.2	81.3	0.004	0.98	7.79	10.9	1	2.9	120.5	0.72	0.15	13.15	0.250	1.34	2.3
W598826		23.9	89.8	0.003	2.04	15.15	11.0	2	8.1	105.0	0.61	0.26	14.75	0.250	1.51	2.5
W598827		25.8	127.5	0.003	2.41	6.62	10.3	1	9.6	131.0	0.54	0.29	11.35	0.222	1.95	3.0
W598828		15.5	98.7	0.006	1.62	4.52	11.0	1	5.3	162.5	0.46	0.07	12.40	0.205	1.40	3.0
W598829		9320	115.5	0.005	>10.0	237	6.9	2	11.4	92.1	0.35	2.18	7.22	0.144	1.85	4.4
W598830		20.7	86.8	0.004	1.37	4.77	12.0	1	2.5	193.0	0.64	<0.05	11.20	0.262	1.26	3.1
W598831		16.3	152.5	0.008	2.24	3.70	10.1	1	3.1	233	0.52	0.10	11.80	0.230	2.02	2.5
W598832		17.0	103.0	0.010	1.94	2.65	9.8	2	1.5	212	0.50	0.08	11.05	0.230	1.31	2.4
W598833		17.4	142.5	0.004	2.34	3.37	9.5	3	2.1	169.5	0.42	0.10	11.35	0.173	1.84	1.7
W598834		0.5	1.2	<0.002	0.02	0.08	0.2	1	<0.2	81.8	<0.05	<0.05	0.10	0.006	0.02	0.1
W598835		16.4	105.5	0.004	1.59	3.95	10.1	2	1.4	187.0	0.59	0.06	12.25	0.240	1.33	3.2
W598836		34.2	76.8	<0.002	0.49	4.13	9.8	1	2.7	258	0.63	0.22	14.50	0.248	1.18	2.9
W598837		26.4	68.4	<0.002	0.60	18.90	10.2	1	6.1	123.0	0.67	0.34	11.65	0.271	1.52	2.8
W598838		25.3	124.0	<0.002	1.94	23.4	10.9	<1	8.8	79.9	0.70	0.59	13.60	0.250	3.53	4.3
W598839		173.0	101.5	0.005	>10.0	20.4	7.7	8	18.7	71.8	0.31	3.58	9.87	0.137	2.02	4.9
W598840		20.5	57.1	0.003	1.92	8.80	10.3	1	3.0	123.0	0.64	0.17	11.75	0.248	1.18	1.9
W598841		20.0	67.2	0.003	1.90	8.79	10.6	2	3.1	123.0	0.64	0.18	13.75	0.247	1.17	2.2
W598842		21.3	37.2	<0.002	1.21	11.95	10.5	1	2.3	99.7	0.68	0.17	12.20	0.245	0.95	2.0
W598843		267	97.4	0.003	2.81	22.7	9.1	1	4.2	129.0	0.50	0.39	12.50	0.207	2.05	3.7
W598844		158.5	118.0	<0.002	1.69	68.7	5.3	1	7.3	146.0	0.60	1.27	9.67	0.174	2.50	10.2
W598845		37.5	131.0	<0.002	1.28	85.5	4.0	1	7.9	89.4	0.55	1.18	9.25	0.133	2.74	6.4
W598846		22.4	135.0	<0.002	0.97	59.6	4.7	1	6.2	124.5	0.60	5.28	10.95	0.147	2.75	5.6
W598847		17.4	78.6	<0.002	0.72	29.7	5.0	1	4.0	154.0	0.58	0.62	9.25	0.168	2.03	5.0
W598848		23.5	81.0	<0.002	0.88	38.8	5.2	1	4.1	153.5	0.65	0.35	10.10	0.179	2.08	4.9
W598849		28.4	66.5	<0.002	0.89	39.5	5.2	1	4.6	143.0	0.64	0.26	9.63	0.181	1.88	4.6
W598850		25.5	67.8	<0.002	0.89	51.7	5.0	<1	5.5	147.5	0.67	0.11	9.57	0.178	1.90	5.0
W598851		37.2	59.2	<0.002	1.00	64.5	4.9	1	5.1	142.0	0.65	1.62	9.35	0.183	1.58	6.8
W598852		27.2	59.5	<0.002	0.82	56.1	4.9	1	6.0	138.0	0.58	0.25	9.26	0.162	1.47	6.0
W598853		66.5	112.0	<0.002	2.78	57.5	6.6	2	12.2	145.0	0.57	0.63	9.41	0.173	2.03	6.7
W598854		83.1	112.0	<0.002	3.27	61.6	6.3	3	9.5	165.0	0.53	0.77	9.10	0.170	1.81	6.2
W598855		37.5	85.5	<0.002	0.98	38.8	7.7	1	3.1	126.5	0.58	0.28	8.33	0.314	1.60	6.8
W598856		12.1	71.0	<0.002	0.21	26.4	6.2	1	1.3	121.0	0.58	0.10	7.51	0.312	1.05	7.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 3-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234027

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598817		149	5.9	12.3	80	22.5	0.170
W598818		135	10.5	14.1	127	45.5	0.081
W598819		80	5.5	13.5	140	12.2	0.039
W598820		68	2.6	17.3	36	11.4	0.032
W598821		74	2.3	14.8	40	11.8	0.005
W598822		83	2.6	14.3	35	11.9	0.008
W598823		65	5.9	10.5	2900	25.2	0.632
W598824		86	4.3	14.4	53	12.0	0.018
W598825		84	2.8	14.2	39	11.2	0.009
W598826		83	5.6	13.7	62	12.2	0.048
W598827		68	6.3	13.8	51	8.4	0.032
W598828		70	4.4	12.2	33	11.6	0.005
W598829		49	4.6	9.3	>10000	21.1	2.89
W598830		88	3.3	16.8	51	12.9	0.009
W598831		80	2.3	12.9	34	10.4	0.008
W598832		78	2.4	14.8	35	10.9	0.007
W598833		72	3.6	10.9	34	11.4	0.009
W598834		1	<0.1	2.3	4	1.5	<0.005
W598835		79	2.8	14.8	40	10.3	0.013
W598836		77	2.2	11.9	54	11.6	0.016
W598837		85	6.9	11.6	56	13.3	0.028
W598838		80	8.7	14.8	58	12.3	0.055
W598839		59	12.8	13.6	924	10.3	0.188
W598840		82	4.8	12.6	45	12.0	0.032
W598841		80	4.8	14.1	44	13.2	0.030
W598842		79	6.0	13.0	58	12.1	0.022
W598843		71	7.4	11.0	415	11.1	0.094
W598844		42	3.9	10.7	495	39.1	0.069
W598845		31	3.2	9.1	109	41.1	0.105
W598846		34	3.7	11.0	151	44.1	0.025
W598847		39	4.2	9.8	114	45.2	0.009
W598848		40	1.6	10.5	65	45.7	0.012
W598849		40	1.7	9.8	83	45.7	0.009
W598850		41	1.2	9.3	62	46.0	0.009
W598851		41	1.3	9.9	71	43.7	0.009
W598852		41	1.3	9.4	182	44.1	0.013
W598853		53	6.7	10.1	83	33.8	0.154
W598854		51	7.5	11.1	107	32.2	0.279
W598855		74	4.3	11.5	92	103.5	0.038
W598856		64	2.1	11.3	73	117.0	0.005

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 3-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234027

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234038

Project: Klaza

P.O. No.: Batch 62

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 27-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234038

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598651		7.66		0.27	7.35	6.6	1830	1.61	0.08	2.75	0.98	50.0	6.3	9	18.80	6.9
W598652		2.79		2.31	6.86	53.4	2360	1.62	1.17	3.08	15.20	44.9	8.0	6	24.5	28.8
W598653		7.56		0.11	7.54	6.6	2120	1.56	0.10	2.04	0.47	47.2	6.6	8	16.50	8.0
W598654		5.08		0.08	7.77	5.0	2130	1.65	0.11	2.44	0.35	56.7	6.9	9	16.25	5.0
W598655		5.61		0.07	7.19	3.8	1940	1.55	0.08	2.72	0.10	50.3	6.7	8	14.50	7.0
W598656		8.67		0.14	7.52	4.0	2230	1.57	0.09	2.53	0.95	45.7	6.2	10	14.60	7.0
W598657		2.54		2.41	7.73	12.2	1880	1.59	0.62	1.86	20.7	48.3	6.1	9	16.25	25.4
W598658		1.15		2.33	7.99	13.1	1720	1.67	0.89	1.86	16.50	52.8	6.7	8	18.10	21.6
W598659		8.13		0.89	7.92	6.3	2420	1.60	0.07	2.04	6.69	54.0	6.7	8	16.30	12.8
W598660		7.80		0.19	7.80	7.0	2290	1.66	0.09	2.25	2.73	48.1	7.0	9	15.95	8.0
W598661		2.46		4.80	6.90	846	1400	1.54	1.04	2.32	36.8	42.2	5.8	7	15.25	67.6
W598662		0.26	1.460	97.6	4.87	4120	290	0.98	49.4	1.53	201	28.5	56.5	37	9.39	1315
W598663		3.07		0.65	6.98	1225	1800	1.56	0.26	2.89	0.63	49.5	12.5	7	19.75	7.9
W598664		2.04		4.46	6.28	1380	1380	1.38	0.60	3.72	36.6	33.1	6.1	6	15.20	69.1
W598665		5.61		0.83	7.36	501	970	1.53	0.21	2.33	2.32	45.0	6.3	7	20.8	8.3
W598666		2.13		1.06	7.08	3480	2310	1.51	0.14	3.94	1.32	48.6	5.1	7	20.6	8.9
W598667		3.13		2.85	7.63	104.5	900	1.51	0.66	1.96	31.4	44.2	9.4	7	16.15	36.4
W598668		2.41		0.22	7.64	25.6	1720	1.57	0.12	2.13	0.56	48.0	8.2	7	17.85	5.5
W598669		<0.02		0.21	7.97	24.3	1640	1.64	0.11	2.16	0.47	50.4	8.4	7	19.00	5.8
W598670		5.24		1.13	7.68	636	1690	1.49	0.19	2.52	12.50	50.1	6.3	7	21.5	29.6
W598671		2.44		6.70	5.81	647	220	1.30	1.66	2.55	32.9	32.9	24.9	5	11.00	42.0
W598672		8.05		0.15	8.21	6.9	2440	1.60	0.13	2.54	0.24	48.6	5.3	10	10.60	3.7
W598673		3.84		0.10	7.98	4.1	2470	1.52	0.11	2.63	0.30	49.9	4.9	15	7.87	4.0
W598674		7.83		0.56	7.53	7.3	2470	1.56	0.26	2.59	4.09	43.8	12.9	10	11.30	9.4
W598675		2.40		2.24	7.18	31.8	1290	1.51	0.47	2.18	15.65	47.5	41.2	9	12.70	13.0
W598676		0.26		9.06	6.93	2030	320	1.38	5.38	1.75	33.3	44.1	10.3	29	15.85	197.5
W598677		8.80		0.21	7.93	7.0	2590	1.49	0.29	2.62	0.14	50.0	10.4	11	7.89	6.4
W598678		7.39		0.52	8.07	6.9	2480	1.57	0.07	2.64	3.63	48.2	5.8	11	14.40	7.3
W598679		2.57		4.97	7.42	6.3	2300	1.32	0.07	2.29	2.88	47.3	5.0	11	13.20	9.4
W598680		7.83		2.18	7.44	7.2	2470	1.43	0.08	2.50	3.33	46.2	5.7	12	13.00	17.9
W598681		4.80		0.56	8.18	13.9	2080	1.65	0.10	1.90	1.06	48.3	6.4	11	22.4	6.9
W598682		2.79		3.21	6.94	170.5	2190	1.68	0.10	2.37	17.30	51.4	7.5	10	16.60	15.6
W598683		7.39		0.18	7.63	5.1	2170	1.39	0.11	2.07	0.31	54.0	6.2	11	14.95	6.3
W598684		6.62		0.09	6.83	7.5	2290	1.43	0.19	2.68	0.10	48.7	7.1	11	11.15	10.7
W598685		2.21		0.08	6.57	7.4	>10000	1.47	0.18	4.83	0.08	50.8	8.2	10	11.85	1.6
W598686		6.64		0.13	6.40	7.2	2450	1.31	0.22	2.53	0.08	43.4	4.8	11	9.63	2.0
W598687		6.53		0.13	6.69	7.2	1770	1.60	0.24	2.77	0.10	62.0	4.8	10	9.38	1.5
W598688		8.33		2.01	6.23	53.4	2220	1.32	0.92	2.80	21.4	49.1	4.8	12	12.30	26.8
W598689		4.94		0.01	0.11	0.2	30	0.08	0.02	33.3	0.04	1.36	0.5	3	0.06	0.7
W598690		8.11		1.09	7.13	397	2100	1.36	0.45	2.46	4.56	48.4	5.0	11	10.75	10.0

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234038

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598651		2.88	14.75	0.13	1.2	0.037	2.55	25.7	23.5	0.78	735	0.75	1.62	8.4	2.3	610
W598652		2.89	13.25	0.12	1.0	0.486	2.43	24.6	28.1	0.98	1020	1.38	0.11	7.0	2.1	490
W598653		2.97	14.70	0.11	0.9	0.044	2.83	24.4	18.3	0.64	480	0.57	1.56	8.2	2.3	620
W598654		2.83	14.75	0.12	1.0	0.037	2.82	30.0	13.7	0.78	604	0.60	2.16	7.9	2.2	600
W598655		2.82	14.55	0.12	0.9	0.036	2.50	26.0	17.8	0.74	531	0.52	1.79	8.0	2.2	580
W598656		2.93	14.90	0.10	1.0	0.037	2.71	23.4	12.7	0.76	685	0.55	2.08	7.9	2.3	610
W598657		4.17	14.50	0.12	0.9	0.171	3.00	26.0	26.5	0.77	1380	0.75	0.85	7.9	2.2	620
W598658		4.24	15.45	0.12	0.9	0.127	2.95	28.5	30.0	0.77	1410	0.56	0.80	8.5	2.3	640
W598659		3.10	15.30	0.13	1.0	0.051	3.08	28.6	16.7	0.66	732	0.56	1.29	7.9	2.3	610
W598660		3.04	15.00	0.12	0.9	0.048	3.01	24.9	18.1	0.70	681	0.54	1.55	8.0	2.2	600
W598661		4.80	13.40	0.11	0.8	0.680	3.02	23.3	11.9	0.93	2900	1.35	0.03	6.5	2.1	510
W598662		11.50	10.55	0.09	0.7	4.09	1.97	14.4	27.8	0.53	1990	15.45	0.15	4.0	14.4	390
W598663		2.54	13.90	0.11	0.8	0.113	3.05	26.2	14.0	0.90	1430	1.18	0.02	7.3	2.3	590
W598664		3.86	11.60	0.10	0.7	0.792	2.65	18.2	18.7	1.28	3600	1.44	0.02	5.2	1.9	440
W598665		3.07	13.50	0.10	0.9	0.109	2.78	24.7	42.1	0.88	1820	1.52	0.03	6.8	1.9	540
W598666		2.89	13.40	0.12	1.0	0.067	2.91	26.6	17.1	1.37	2050	2.47	0.02	7.0	2.1	540
W598667		4.43	14.05	0.10	0.8	0.253	3.20	24.1	25.7	0.85	3060	0.42	0.02	6.9	2.1	580
W598668		2.63	14.75	0.12	0.9	0.050	2.30	24.5	152.5	0.70	1160	0.64	0.02	8.1	2.0	720
W598669		2.67	15.10	0.11	1.0	0.049	2.35	26.1	154.0	0.72	1140	0.71	0.02	8.4	2.0	720
W598670		2.99	14.10	0.12	0.9	0.102	3.06	27.9	33.7	0.94	1420	0.96	0.03	7.4	2.1	590
W598671		4.63	11.20	0.10	0.6	1.080	2.55	17.3	15.8	1.00	3050	1.78	0.02	5.3	3.0	460
W598672		4.08	15.35	0.13	1.0	0.044	3.13	25.9	12.7	0.95	824	0.69	1.68	8.1	2.6	690
W598673		3.34	14.80	0.13	0.9	0.050	2.95	26.9	9.6	0.85	729	1.03	2.25	7.5	2.6	640
W598674		3.26	15.30	0.12	1.0	0.053	2.97	22.4	11.6	0.72	780	0.78	1.77	8.1	2.6	620
W598675		4.33	13.70	0.10	0.7	0.243	3.25	25.8	9.5	0.64	2560	1.31	0.13	6.7	3.4	560
W598676		5.92	13.70	0.09	0.9	0.630	2.86	23.9	38.6	0.74	2100	8.23	0.06	6.0	16.0	530
W598677		3.41	15.15	0.13	0.9	0.051	3.13	26.2	7.6	0.75	792	1.10	1.96	7.7	2.9	630
W598678		3.66	15.45	0.12	1.0	0.041	3.12	25.3	10.7	0.74	1160	0.62	1.76	8.2	2.8	660
W598679		3.76	13.90	0.11	0.8	0.046	3.05	25.3	15.4	0.78	1300	0.58	1.52	7.1	2.4	600
W598680		3.42	14.35	0.11	0.9	0.040	2.94	23.9	10.1	0.73	1060	0.58	1.90	7.6	2.7	610
W598681		3.58	15.30	0.11	0.9	0.051	2.97	25.1	26.8	0.72	811	0.59	0.97	8.0	2.6	630
W598682		4.70	14.30	0.07	0.9	0.283	3.07	28.4	28.7	0.95	4660	1.28	0.05	7.6	2.9	530
W598683		3.18	15.50	0.08	1.1	0.045	2.98	29.1	26.3	0.58	560	0.67	0.68	8.7	2.1	640
W598684		3.19	15.75	0.07	1.0	0.045	2.27	25.8	32.6	0.81	468	0.62	0.25	8.2	2.0	560
W598685		2.63	15.10	0.08	1.0	0.026	2.38	27.4	25.4	1.48	774	0.91	0.02	8.5	2.3	630
W598686		2.81	15.00	0.06	0.9	0.041	2.06	23.4	35.9	0.78	454	0.76	0.66	7.6	1.8	520
W598687		2.73	14.65	0.07	0.9	0.037	2.48	34.1	28.3	0.92	631	0.40	0.04	7.7	1.5	570
W598688		2.92	13.55	0.08	0.7	0.785	2.86	28.9	16.8	0.71	1320	0.58	0.04	5.6	1.9	440
W598689		0.17	0.34	<0.05	<0.1	0.005	0.04	1.3	1.3	1.67	100	<0.05	0.04	0.2	0.2	70
W598690		3.72	15.50	0.08	0.9	0.133	3.14	26.9	25.6	0.70	1300	0.49	0.49	8.3	2.3	600

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234038

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598651		87.5	102.5	<0.002	0.06	2.75	10.3	<1	1.5	331	0.70	<0.05	14.10	0.257	1.17	4.7
W598652		336	112.5	<0.002	0.37	6.33	7.9	<1	1.9	240	0.57	<0.05	11.50	0.203	1.30	5.5
W598653		26.6	128.5	<0.002	0.04	3.24	10.7	<1	1.5	294	0.61	<0.05	12.60	0.264	1.25	3.5
W598654		25.6	115.5	<0.002	0.02	1.32	10.2	<1	1.3	429	0.63	<0.05	15.15	0.247	1.10	4.6
W598655		14.4	104.0	<0.002	0.01	2.31	10.4	<1	1.5	375	0.64	<0.05	13.10	0.253	0.95	3.6
W598656		62.5	106.5	<0.002	0.02	1.58	10.4	<1	1.5	389	0.66	<0.05	13.40	0.254	1.08	4.3
W598657		758	141.5	<0.002	0.22	5.78	10.4	<1	2.1	187.0	0.63	<0.05	14.10	0.254	1.70	4.4
W598658		717	143.0	<0.002	0.23	6.48	11.0	<1	2.4	190.5	0.68	<0.05	15.10	0.264	1.72	5.1
W598659		279	133.5	<0.002	0.06	5.02	9.9	1	1.8	267	0.65	<0.05	14.25	0.253	1.39	3.9
W598660		47.6	130.0	<0.002	0.05	3.41	10.9	<1	1.6	323	0.63	<0.05	14.20	0.252	1.31	4.8
W598661		1120	173.0	<0.002	1.10	18.85	8.5	1	2.7	79.1	0.56	<0.05	12.15	0.210	2.74	4.2
W598662		8990	109.5	<0.002	>10.0	235	6.4	2	9.6	86.4	0.32	2.00	6.39	0.146	1.62	4.1
W598663		45.2	165.0	<0.002	0.53	15.15	9.9	<1	1.4	128.0	0.55	<0.05	13.45	0.237	3.02	4.0
W598664		775	148.0	<0.002	1.03	30.0	7.2	<1	1.9	103.0	0.44	<0.05	8.78	0.177	2.32	5.1
W598665		83.4	144.0	<0.002	0.32	14.80	9.1	<1	1.5	87.9	0.57	<0.05	13.40	0.233	2.30	4.3
W598666		36.4	173.5	<0.002	0.69	35.8	9.5	1	1.5	112.0	0.56	<0.05	13.65	0.233	2.94	6.6
W598667		1340	186.0	<0.002	1.05	10.10	9.4	<1	2.5	73.0	0.56	<0.05	12.55	0.244	2.84	3.3
W598668		43.8	102.0	<0.002	0.21	9.45	11.2	<1	1.5	313	0.60	<0.05	12.20	0.272	2.09	5.4
W598669		37.9	112.0	<0.002	0.20	9.79	11.5	<1	1.5	317	0.63	<0.05	13.40	0.279	2.17	5.6
W598670		532	164.0	<0.002	0.65	14.35	10.0	<1	1.6	130.0	0.60	<0.05	14.35	0.243	2.64	5.3
W598671		2100	143.0	<0.002	2.13	30.5	7.5	1	2.3	57.4	0.43	0.19	8.29	0.181	2.31	3.6
W598672		24.2	141.0	<0.002	0.05	2.68	12.1	<1	1.4	330	0.61	<0.05	13.45	0.288	1.39	4.0
W598673		19.2	129.0	<0.002	0.02	1.82	10.9	<1	1.2	391	0.59	<0.05	13.55	0.264	1.11	4.2
W598674		183.0	120.5	<0.002	0.16	2.77	11.0	<1	1.4	344	0.64	0.12	13.35	0.260	1.24	4.0
W598675		940	190.5	<0.002	0.95	6.28	9.5	<1	2.3	69.5	0.52	0.22	12.05	0.229	2.46	5.1
W598676		1730	160.5	<0.002	3.43	44.0	8.8	1	5.7	76.0	0.49	0.21	11.20	0.210	2.39	4.1
W598677		20.8	132.5	<0.002	0.17	2.52	10.5	<1	1.4	346	0.60	0.11	12.70	0.265	1.27	3.9
W598678		368	127.0	<0.002	0.05	3.91	11.3	<1	1.6	350	0.62	<0.05	13.50	0.269	1.43	4.4
W598679		2150	124.0	<0.002	0.07	7.97	9.9	<1	1.5	316	0.56	<0.05	12.75	0.248	1.46	3.8
W598680		682	119.5	<0.002	0.05	4.11	10.5	<1	1.4	373	0.58	<0.05	12.30	0.249	1.27	3.8
W598681		177.5	125.0	<0.002	0.08	6.89	11.1	<1	1.6	254	0.61	<0.05	12.95	0.267	1.50	3.9
W598682		1225	171.0	<0.002	0.82	13.90	10.4	<1	3.1	80.6	0.53	<0.05	12.35	0.236	2.86	5.5
W598683		127.5	120.5	<0.002	0.02	11.00	10.5	<1	1.6	178.5	0.61	<0.05	13.30	0.280	1.25	4.4
W598684		18.6	88.6	<0.002	0.10	9.63	10.3	<1	2.6	166.0	0.58	<0.05	12.00	0.257	1.09	3.8
W598685		17.3	95.8	<0.002	0.33	4.42	10.4	<1	1.4	282	0.60	<0.05	12.20	0.247	1.30	3.6
W598686		17.1	80.1	<0.002	0.06	5.39	9.3	<1	1.5	180.5	0.55	<0.05	10.75	0.232	1.07	3.0
W598687		13.7	108.0	<0.002	0.05	4.71	10.1	<1	1.5	145.5	0.55	0.06	13.95	0.227	1.46	3.5
W598688		580	152.0	<0.002	0.69	7.99	7.5	<1	1.8	112.0	0.41	<0.05	10.45	0.181	2.13	6.4
W598689		1.4	1.4	<0.002	<0.01	0.10	0.2	1	<0.2	82.6	<0.05	<0.05	0.18	<0.005	0.02	0.2
W598690		221	145.0	<0.002	1.07	9.57	10.9	<1	2.4	139.0	0.57	<0.05	11.20	0.262	2.21	4.6

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 27-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234038

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598651		72	2.2	15.9	120	30.7	<0.005
W598652		59	2.6	13.5	1120	26.2	0.080
W598653		78	1.3	14.7	87	26.4	<0.005
W598654		70	0.9	17.3	58	26.2	<0.005
W598655		73	1.0	16.1	46	24.8	<0.005
W598656		72	1.2	16.5	113	25.6	<0.005
W598657		71	3.7	14.5	1500	25.0	0.021
W598658		74	4.1	14.8	1200	24.2	0.028
W598659		71	2.7	15.6	507	27.0	0.008
W598660		71	1.6	16.1	238	25.5	<0.005
W598661		59	5.3	10.2	2790	22.3	0.500
W598662		51	4.0	9.2	>10000	21.0	2.75
W598663		68	3.8	13.1	96	23.3	0.438
W598664		52	3.5	11.3	2820	18.2	0.786
W598665		67	4.4	14.6	256	24.4	0.248
W598666		65	8.0	14.6	159	26.1	1.320
W598667		69	4.4	11.8	2410	22.6	0.066
W598668		76	3.8	13.9	87	26.2	0.007
W598669		78	3.9	14.5	79	26.9	0.006
W598670		68	6.8	13.5	956	24.3	0.029
W598671		54	2.5	9.6	2830	16.9	0.216
W598672		86	1.7	16.5	79	25.1	<0.005
W598673		75	1.1	17.0	71	24.8	<0.005
W598674		72	1.9	16.0	331	26.5	0.008
W598675		65	3.1	13.6	1260	20.5	0.032
W598676		67	5.2	11.0	2940	27.0	0.659
W598677		75	1.3	16.0	63	23.5	0.005
W598678		77	5.0	17.4	348	26.6	<0.005
W598679		70	3.9	15.6	284	22.1	0.012
W598680		71	3.4	16.0	305	24.1	0.007
W598681		75	2.5	15.9	128	24.9	<0.005
W598682		68	4.6	14.3	1290	22.9	0.092
W598683		74	3.9	16.3	61	26.3	<0.005
W598684		76	3.4	15.5	58	24.5	<0.005
W598685		71	2.4	19.1	74	24.0	<0.005
W598686		64	2.4	13.2	54	22.9	<0.005
W598687		64	2.8	13.1	59	23.5	<0.005
W598688		61	2.6	10.9	1790	19.1	0.327
W598689		1	0.1	2.1	5	1.5	<0.005
W598690		71	3.8	14.1	354	23.8	0.146

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 27-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234038

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234044

Project: Klaza

P.O. No.: Batch 63

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20234044

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598691		7.17		0.19	6.65	10.9	1750	1.09	0.16	2.12	0.14	40.3	6.0	9	10.45	3.0
W598692		7.08		0.25	6.14	106.0	2500	1.49	0.15	3.96	0.20	53.5	4.7	13	12.50	2.0
W598693		3.28		0.14	6.84	23.9	2010	1.55	0.16	3.06	0.09	33.0	6.3	10	10.90	1.3
W598694		5.23		0.20	7.04	11.9	2420	1.56	0.19	2.64	0.76	51.5	9.5	12	15.30	2.6
W598695		2.87		0.55	6.25	20.2	2900	1.27	0.21	3.50	1.41	34.3	15.2	10	11.45	1.9
W598696		6.77		0.13	6.78	6.3	2560	1.31	0.16	2.51	0.30	38.8	5.5	12	10.70	9.0
W598697		0.26		9.40	6.09	1855	280	1.42	5.49	1.65	35.9	41.4	10.7	27	16.30	188.5
W598698		7.35		0.25	6.79	55.4	1770	1.23	0.16	2.53	0.19	38.2	5.5	9	9.28	2.5
W598699		2.55		5.86	6.69	525	1270	1.71	0.48	2.21	23.0	47.0	5.1	16	16.35	16.8
W598700		3.04		0.94	6.73	51.3	1930	1.76	0.13	2.41	6.83	49.7	5.1	9	20.8	8.5
W598701		2.51		0.57	6.00	322	2260	1.37	0.09	3.84	1.56	48.6	3.1	7	11.00	2.6
W598702		8.37		0.09	6.75	8.5	1340	1.53	0.14	2.59	0.15	51.5	4.8	13	9.98	3.2
W598703		<0.02		0.08	6.73	8.0	1400	1.58	0.12	2.67	0.14	49.5	5.0	10	9.89	3.4
W598704		8.35		0.23	6.56	18.1	830	1.59	0.26	3.17	0.90	41.5	6.0	12	9.46	1.1
W598705		2.88		1.22	5.64	136.0	1430	1.30	0.38	2.54	45.2	35.6	7.7	12	7.18	17.8
W598706		8.00		0.30	5.69	22.7	800	1.34	0.17	2.28	5.59	60.9	4.2	11	16.75	10.5
W598707		4.26		0.08	7.48	18.0	680	1.89	0.10	2.17	0.28	45.1	5.8	9	27.6	15.8
W598708		7.63		0.19	7.45	25.3	1560	1.48	0.11	3.13	0.25	51.6	5.9	10	18.95	3.4
W598709		2.84		0.41	6.11	14.6	1410	1.26	0.11	4.99	1.33	50.8	3.4	8	11.05	2.2
W598710		2.29		0.63	7.49	33.4	900	1.38	0.13	3.07	0.31	52.2	7.3	11	12.50	3.5
W598711		5.16		8.04	6.29	123.0	960	1.54	3.69	3.27	84.7	62.1	2.7	8	12.85	80.3
W598712		5.11		0.02	0.18	<0.2	30	0.10	0.04	34.4	0.10	1.17	0.6	2	0.06	3.6
W598713		5.00		5.19	6.63	109.5	530	1.36	2.02	2.38	61.4	42.7	3.9	9	17.45	70.4
W598714		2.66		0.06	7.42	13.4	370	1.50	0.10	3.43	1.10	46.2	4.6	11	18.25	2.3
W598715		4.20		0.11	4.12	11.6	250	0.93	0.06	2.02	0.72	31.9	2.4	9	15.00	3.5
W598716		3.21		0.12	5.79	12.0	380	1.40	0.09	2.51	1.02	44.7	3.4	11	16.00	2.9
W598717		5.32		0.08	6.67	9.4	690	1.56	0.09	2.70	0.92	42.4	3.1	8	16.20	4.4
W598718		2.54		1.71	6.55	129.0	2120	1.51	0.24	3.29	41.4	44.8	7.7	8	21.0	41.1
W598719		6.59		0.26	7.68	10.8	1580	1.68	0.12	3.92	1.18	56.2	9.1	9	24.2	7.8
W598720		0.26	1.470	93.8	4.67	4070	530	1.07	50.2	1.56	196.5	30.4	63.9	35	10.00	1240
W598721		8.94		0.12	7.49	7.7	2250	1.61	0.12	2.83	0.23	49.6	8.2	14	30.3	7.8
W598722		2.96		1.25	7.02	110.5	1720	1.58	0.09	2.64	11.95	41.4	7.4	11	24.5	8.6
W598723		1.12		0.81	7.05	140.0	1720	1.49	0.08	2.56	5.38	41.6	6.9	9	28.1	8.4
W598724		8.55		0.07	7.53	6.3	2200	1.53	0.09	2.86	0.14	45.2	8.1	13	20.9	7.8
W598725		5.24		0.05	7.40	4.1	2220	1.48	0.05	2.71	0.09	41.0	7.3	11	22.6	5.6
W598726		4.41		0.04	7.48	7.3	1920	1.79	0.05	2.54	0.22	42.3	6.7	12	34.5	5.2
W598727		7.40		0.21	7.24	55.4	1040	1.78	0.08	2.29	0.30	39.3	8.2	9	26.5	14.5
W598728		6.94		4.41	7.30	22.0	1800	1.54	0.19	2.28	7.26	43.0	7.6	13	16.15	20.0
W598729		5.07		0.06	7.71	6.4	2360	1.61	0.06	2.62	0.12	43.3	7.5	12	11.10	6.0
W598730		3.08		2.40	7.36	58.2	1990	1.48	1.41	2.31	59.0	44.6	7.0	13	15.00	50.2

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234044

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598691		3.03	16.40	0.13	0.9	0.033	2.71	20.9	29.3	0.80	552	1.09	0.18	6.9	3.3	540
W598692		2.33	15.30	0.17	0.9	0.028	2.76	30.2	17.6	0.86	1080	2.59	0.04	6.2	2.4	510
W598693		2.39	16.50	0.15	1.0	0.025	3.13	16.8	10.9	0.73	666	1.66	1.26	7.9	2.2	610
W598694		2.90	16.90	0.17	1.0	0.035	3.02	27.6	10.0	0.59	432	3.77	1.73	7.4	3.9	590
W598695		2.40	15.70	0.17	0.8	0.033	2.75	17.8	11.4	0.65	569	1.01	1.55	7.1	4.4	500
W598696		2.93	15.50	0.16	0.9	0.029	2.91	20.7	12.1	0.71	446	0.97	1.69	7.0	3.6	510
W598697		5.54	14.95	0.12	1.0	0.622	2.66	22.1	39.5	0.69	1900	8.35	0.06	6.1	16.4	490
W598698		2.96	16.50	0.16	1.2	0.056	2.51	19.1	40.6	0.68	811	2.55	0.28	8.7	2.8	600
W598699		5.15	15.10	0.13	0.9	0.813	2.82	26.9	38.8	0.85	3180	1.56	0.04	7.0	3.6	520
W598700		3.09	15.40	0.15	0.9	0.083	2.49	28.4	166.5	0.83	1500	1.20	0.04	7.3	2.2	520
W598701		2.94	14.35	0.16	0.8	0.058	2.62	30.3	46.7	1.26	2160	0.40	0.04	6.2	1.8	430
W598702		2.58	16.25	0.15	1.2	0.078	2.10	30.1	54.6	0.68	615	1.33	1.49	7.9	2.8	530
W598703		2.36	16.45	0.14	1.2	0.076	2.15	28.1	56.7	0.69	590	1.02	1.56	8.2	2.3	550
W598704		2.45	15.60	0.14	1.0	0.236	2.40	24.2	193.0	1.01	1280	0.82	0.16	7.5	3.2	560
W598705		5.07	13.05	0.13	0.7	1.895	2.54	21.5	15.8	1.04	4130	0.53	0.10	6.0	2.4	490
W598706		2.92	12.75	0.08	0.9	0.367	1.77	39.6	207	0.78	1390	0.77	0.08	5.9	2.7	460
W598707		2.71	17.05	0.09	1.1	0.051	1.46	24.1	500	0.72	667	1.19	0.04	8.6	2.4	630
W598708		2.92	15.50	0.11	1.0	0.050	2.15	29.2	470	1.03	755	1.31	0.06	7.6	2.7	590
W598709		3.47	13.05	0.10	0.9	0.097	2.45	30.7	213	1.72	1950	1.79	0.06	6.3	1.7	440
W598710		2.67	15.50	0.10	1.1	0.051	2.02	29.5	880	1.06	1170	1.55	0.05	8.2	3.2	580
W598711		4.00	14.10	0.09	0.8	1.800	2.80	39.1	83.6	1.20	2540	0.56	0.04	6.9	1.9	470
W598712		0.17	0.56	0.07	0.1	<0.005	0.07	1.2	2.2	1.37	98	0.09	0.07	0.7	0.5	60
W598713		4.17	13.70	0.08	0.9	1.930	2.35	24.3	349	0.85	3090	0.68	0.03	6.9	2.0	510
W598714		3.07	15.15	0.07	1.0	0.041	1.34	24.5	1090	0.99	919	0.99	0.02	7.9	2.6	620
W598715		1.72	8.60	0.06	0.5	0.070	1.10	18.9	427	0.61	701	0.41	0.03	4.6	1.4	350
W598716		2.44	12.20	0.09	0.7	0.094	1.63	27.4	620	0.80	849	0.59	0.04	6.0	1.9	500
W598717		2.31	14.30	0.07	0.9	0.085	1.83	23.7	670	0.85	747	0.49	0.03	7.0	1.7	560
W598718		4.09	13.45	0.07	1.0	0.880	1.90	25.7	291	1.17	1980	1.11	0.03	6.7	2.6	530
W598719		3.24	16.45	0.12	1.1	0.053	1.39	30.8	630	1.25	1020	1.02	0.03	8.7	3.2	620
W598720		11.65	12.05	0.09	0.8	4.35	1.94	15.3	34.6	0.54	1910	17.95	0.15	4.5	16.1	370
W598721		3.36	16.75	0.08	1.2	0.041	2.82	26.4	23.9	0.74	748	1.87	2.19	8.5	3.6	590
W598722		3.26	15.05	0.09	1.0	0.084	3.07	22.1	211	0.81	1090	1.85	0.55	7.4	2.8	540
W598723		2.98	15.00	0.09	1.0	0.066	3.07	21.4	174.0	0.79	1080	1.67	0.51	7.4	2.6	540
W598724		3.29	16.15	0.10	1.1	0.039	2.78	23.7	30.6	0.69	657	2.93	2.21	8.2	3.0	600
W598725		2.96	15.55	0.08	1.2	0.035	2.80	21.1	12.2	0.72	629	1.19	2.39	7.8	2.5	560
W598726		3.27	16.90	0.09	1.2	0.038	2.61	21.6	400	0.67	756	1.89	0.58	8.7	2.7	600
W598727		2.82	15.60	0.09	1.2	0.052	2.84	19.5	179.5	0.76	1060	1.10	0.05	8.2	2.5	590
W598728		4.27	15.85	0.08	1.2	0.147	3.18	22.2	42.2	0.77	1760	1.38	1.10	7.9	3.2	570
W598729		3.08	16.20	0.09	1.2	0.034	2.91	22.0	28.6	0.81	665	0.98	2.37	8.2	2.7	600
W598730		3.86	15.30	0.10	1.0	1.985	2.99	23.6	16.2	0.78	1140	1.29	1.57	7.5	2.9	560

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VANCOUVER BC V6B 1L8

Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234044

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598691		17.6	99.0	<0.002	0.14	10.50	9.4	<1	1.7	126.5	0.51	0.05	11.30	0.224	1.41	3.1
W598692		19.2	129.0	<0.002	0.22	6.68	9.3	1	1.7	125.0	0.50	<0.05	12.05	0.196	1.98	4.9
W598693		16.0	125.0	<0.002	0.12	3.93	8.8	<1	1.6	206	0.58	<0.05	12.45	0.243	1.79	4.7
W598694		31.1	122.5	<0.002	0.42	3.33	10.1	1	1.8	244	0.55	<0.05	14.50	0.240	1.56	5.6
W598695		59.9	108.0	<0.002	0.41	3.98	8.9	1	1.6	222	0.49	<0.05	10.70	0.226	1.51	4.6
W598696		25.3	100.0	<0.002	0.06	2.89	8.9	<1	2.2	303	0.52	<0.05	10.55	0.231	1.15	3.1
W598697		1720	150.0	<0.002	3.23	47.3	8.8	1	6.0	76.8	0.49	0.39	11.05	0.195	2.73	4.1
W598698		34.4	87.3	<0.002	0.24	8.50	10.2	1	2.1	131.0	0.66	<0.05	11.95	0.262	1.37	5.1
W598699		2560	156.0	<0.002	0.92	17.10	9.6	1	3.1	77.6	0.55	<0.05	13.15	0.226	2.90	5.1
W598700		417	140.0	<0.002	0.59	15.85	10.1	1	2.1	130.5	0.55	<0.05	14.15	0.226	2.51	4.9
W598701		119.0	177.5	<0.002	0.90	12.95	8.8	<1	2.9	94.2	0.51	<0.05	11.85	0.190	2.74	3.5
W598702		19.0	87.0	<0.002	0.05	5.24	9.4	<1	1.9	276	0.66	<0.05	13.85	0.230	1.37	4.6
W598703		18.6	81.0	<0.002	0.05	5.28	9.6	<1	1.8	287	0.67	0.05	12.80	0.243	1.38	4.2
W598704		23.4	122.5	<0.002	0.24	5.63	9.8	<1	2.2	118.5	0.57	0.06	13.60	0.216	2.64	5.1
W598705		99.1	169.0	<0.002	1.15	16.35	7.6	1	3.5	70.6	0.46	0.05	11.45	0.185	2.45	7.1
W598706		46.2	93.3	<0.002	0.24	43.3	8.3	<1	2.2	135.5	0.48	<0.05	11.10	0.183	1.58	4.3
W598707		14.4	58.1	<0.002	0.20	21.9	11.0	<1	3.2	226	0.67	<0.05	12.65	0.257	1.18	2.8
W598708		13.9	82.4	<0.002	0.25	13.00	10.1	<1	1.6	219	0.62	<0.05	13.50	0.245	1.72	5.0
W598709		153.5	130.5	<0.002	0.18	12.00	8.7	<1	1.8	119.0	0.50	<0.05	11.55	0.190	2.39	6.4
W598710		20.1	93.8	<0.002	0.27	9.21	10.6	<1	1.5	155.0	0.63	<0.05	14.40	0.243	1.82	7.5
W598711		2090	173.0	<0.002	0.88	19.65	9.8	<1	2.8	75.7	0.55	<0.05	12.40	0.199	2.90	6.4
W598712		3.0	2.3	<0.002	0.01	0.16	0.2	1	<0.2	83.4	0.10	<0.05	0.16	0.005	0.04	0.5
W598713		273	122.5	<0.002	0.89	29.0	9.0	<1	3.1	128.0	0.56	0.08	12.45	0.221	2.34	5.0
W598714		15.9	58.1	<0.002	0.06	23.1	10.0	<1	1.7	293	0.60	<0.05	12.60	0.249	1.03	2.6
W598715		9.3	59.1	<0.002	0.04	75.4	5.7	<1	1.3	162.5	0.35	<0.05	8.28	0.141	0.89	2.2
W598716		9.8	86.1	<0.002	0.05	45.4	7.6	<1	1.6	188.0	0.49	<0.05	11.05	0.188	1.29	2.9
W598717		9.6	65.1	<0.002	0.04	25.7	8.7	<1	2.0	209	0.57	<0.05	10.85	0.227	1.44	3.0
W598718		401	102.0	<0.002	0.78	21.6	9.0	<1	2.9	183.5	0.54	<0.05	11.80	0.214	1.67	2.9
W598719		22.2	68.1	<0.002	0.11	13.95	11.1	<1	1.8	296	0.69	<0.05	14.85	0.250	1.11	2.5
W598720		9380	116.0	0.002	>10.0	232	7.3	1	10.6	91.9	0.34	2.07	7.37	0.139	1.96	4.7
W598721		24.6	110.0	<0.002	0.02	2.92	11.1	<1	1.5	386	0.65	<0.05	14.10	0.251	1.25	4.7
W598722		367	116.0	<0.002	0.34	12.75	9.3	<1	1.6	180.5	0.59	<0.05	11.50	0.238	1.75	4.0
W598723		350	117.5	<0.002	0.33	15.60	9.5	<1	1.9	174.0	0.58	<0.05	13.20	0.233	1.81	4.4
W598724		17.8	104.0	<0.002	0.02	2.48	10.5	<1	1.5	376	0.61	<0.05	12.65	0.255	1.11	4.1
W598725		16.9	96.3	<0.002	0.01	1.45	9.5	<1	1.4	391	0.61	<0.05	11.50	0.247	1.05	4.1
W598726		15.2	92.0	<0.002	0.03	16.75	10.2	<1	1.6	235	0.68	<0.05	12.60	0.256	1.26	3.2
W598727		15.4	92.3	<0.002	0.23	18.55	10.1	<1	1.6	140.5	0.67	<0.05	11.65	0.262	2.35	5.6
W598728		314	122.0	<0.002	0.26	8.96	10.0	<1	2.1	236	0.63	<0.05	12.25	0.246	2.06	4.6
W598729		18.2	92.6	<0.002	0.01	2.49	10.1	<1	1.5	404	0.63	<0.05	12.50	0.261	1.09	4.7
W598730		205	121.0	<0.002	0.49	3.60	9.8	<1	1.8	300	0.60	<0.05	12.90	0.234	1.58	4.4

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Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234044

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598691		75	3.6	13.3	51	22.8	<0.005
W598692		67	2.2	14.7	54	23.1	0.011
W598693		69	2.3	12.1	54	24.8	<0.005
W598694		75	2.4	15.0	85	24.7	<0.005
W598695		64	2.8	14.9	114	22.3	<0.005
W598696		64	2.1	13.7	61	23.5	<0.005
W598697		60	5.8	10.8	2720	26.9	0.642
W598698		71	3.8	15.0	47	28.3	0.033
W598699		61	4.2	13.3	1650	19.9	0.424
W598700		62	3.1	15.4	420	21.9	0.047
W598701		60	2.9	13.1	140	17.2	0.092
W598702		64	1.7	14.4	36	30.5	<0.005
W598703		67	1.7	14.2	36	29.5	0.005
W598704		59	1.9	12.7	86	24.9	<0.005
W598705		45	3.2	8.8	2960	17.9	0.079
W598706		59	2.5	12.8	396	20.4	0.009
W598707		70	11.9	16.5	52	30.4	<0.005
W598708		67	4.7	16.0	51	24.4	<0.005
W598709		60	2.7	15.3	129	22.7	0.005
W598710		66	9.3	15.7	52	30.8	0.010
W598711		60	3.5	13.7	5610	21.1	0.200
W598712		<1	0.1	2.5	9	2.5	<0.005
W598713		62	5.3	13.0	4090	21.6	0.261
W598714		61	5.3	15.4	136	25.5	<0.005
W598715		40	2.8	12.1	81	13.2	0.005
W598716		56	2.9	11.1	120	18.5	0.005
W598717		60	3.3	12.2	117	22.4	<0.005
W598718		60	4.0	14.2	2660	23.0	0.210
W598719		65	7.7	19.5	140	28.7	<0.005
W598720		49	4.5	10.1	>10000	23.4	2.94
W598721		69	1.3	17.2	62	30.4	<0.005
W598722		64	2.4	15.3	793	26.5	0.030
W598723		65	2.4	14.7	387	25.2	0.042
W598724		71	0.9	16.6	44	27.3	<0.005
W598725		68	0.8	15.3	42	30.3	<0.005
W598726		70	2.1	16.1	56	31.3	<0.005
W598727		74	4.1	13.8	55	28.6	0.007
W598728		69	2.7	14.8	550	29.1	0.044
W598729		72	0.8	16.1	46	30.1	<0.005
W598730		65	2.4	15.1	3900	25.2	0.148

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CERTIFICATE OF ANALYSIS WH20234044

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234055

Project: Klaza

P.O. No.: Batch 64

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20234055

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598857		8.49		0.20	6.37	29.5	200	1.48	0.16	3.29	0.13	55.9	7.5	21	10.95	11.3
W598858		7.69		2.00	6.81	52.7	960	1.47	3.76	3.47	1.91	42.8	12.4	13	37.1	502
W598859		6.23		3.53	7.44	34.2	940	1.43	5.92	3.53	3.27	36.1	11.7	10	26.4	570
W598860		5.55		2.29	8.05	41.3	1190	1.53	6.12	3.55	0.87	48.5	19.9	17	14.95	875
W598861		0.26		10.20	6.54	1905	440	1.51	6.27	1.71	36.6	49.1	11.4	28	17.20	192.0
W598862		6.58		0.53	7.51	7.9	2150	1.33	1.69	4.29	0.33	41.6	17.7	17	16.55	148.5
W598863		5.55		0.89	7.60	18.3	1240	1.34	2.34	3.00	0.52	37.2	16.8	18	11.75	292
W598864		2.73		1.33	7.11	46.3	1190	1.28	2.13	4.78	1.37	42.9	13.4	16	6.66	180.5
W598865		5.12		1.64	6.92	18.1	100	1.44	4.31	3.28	1.94	34.1	18.7	14	10.55	146.5
W598866		0.26	1.485	90.1	4.49	3870	820	1.06	47.5	1.47	191.5	30.0	57.3	36	9.40	1210
W598867		6.50		0.99	6.91	38.3	240	1.36	3.88	3.09	0.69	36.1	14.5	16	8.03	271
W598868		5.18		1.55	7.03	122.5	450	1.27	5.52	2.73	1.26	49.8	10.1	19	4.55	654
W598869		3.13		2.98	7.02	32.3	790	1.59	6.11	2.92	3.85	47.3	10.8	19	11.75	480
W598870		2.08		0.97	7.17	40.2	660	1.56	2.26	3.64	2.11	51.6	11.1	20	25.0	215
W598871		4.52		0.40	7.74	25.0	2270	1.40	10.30	3.85	0.38	48.9	15.8	15	19.95	101.0
W598872		5.51		1.11	7.67	183.5	1550	1.27	16.05	3.65	0.39	48.1	14.0	15	11.10	308
W598873		7.72		0.68	7.89	37.7	1900	1.63	9.66	4.17	0.48	52.1	16.2	17	16.80	163.0
W598874		2.85		2.34	7.86	36.4	1620	1.70	13.25	3.22	3.20	55.2	15.4	15	16.10	255
W598875		4.12		0.46	7.36	101.5	1290	1.78	0.82	3.44	3.26	58.0	7.8	26	35.4	35.1
W598876		4.43		0.30	8.27	84.8	2520	1.53	1.48	5.10	0.31	52.8	13.9	15	15.80	52.3
W598877		3.99		0.54	8.49	15.7	2010	1.46	1.15	4.89	0.37	52.8	14.3	16	9.86	103.0
W598878		2.60		0.42	8.28	14.6	1970	1.56	0.90	5.01	0.27	52.1	15.5	16	10.95	38.6
W598879		4.00		0.16	8.12	23.6	1980	1.51	0.67	5.38	0.22	52.4	13.0	14	10.65	35.3
W598880		1.96		0.31	8.15	52.9	1960	1.63	1.05	6.18	0.21	63.1	14.9	14	10.20	49.7
W598881		6.10		1.47	7.30	78.4	650	1.47	11.15	2.48	0.52	46.3	5.2	13	6.96	310
W598882		6.20		1.12	7.45	66.2	1890	1.48	8.42	3.84	0.91	39.2	4.3	14	4.94	148.5
W598883		5.45		0.51	7.51	276	990	1.47	10.35	3.11	0.63	37.9	5.5	17	6.44	74.7
W598884		1.59		0.60	7.75	149.5	580	1.42	4.99	2.83	1.00	35.8	5.9	13	6.39	106.5
W598885		1.78		0.48	6.90	385	640	1.38	4.43	4.19	1.38	36.4	3.4	11	5.90	101.5
W598886		1.24		1.38	7.60	119.5	580	1.72	4.33	2.83	1.37	42.2	2.8	12	26.7	160.5
W598887		3.22		1.58	7.45	117.5	600	1.49	6.03	3.59	0.61	51.1	6.4	19	10.60	314
W598888		4.38		1.02	7.57	17.9	390	1.52	41.5	3.55	0.37	39.6	4.0	14	6.17	223
W598889		5.18		0.01	0.16	<0.2	30	0.12	0.20	33.1	<0.02	1.09	0.5	2	0.05	3.6
W598890		3.85		1.08	8.09	14.8	790	1.60	2.77	3.52	0.81	40.7	6.6	16	6.27	212
W598891		<0.02		1.06	8.31	14.9	790	1.73	2.81	3.64	0.76	40.9	6.5	15	6.15	215
W598892		5.56		0.69	8.32	15.5	1810	1.58	1.63	4.19	0.96	46.9	11.6	19	13.65	122.5
W598893		4.96		0.99	8.45	27.6	1590	1.48	4.46	3.75	0.64	39.5	14.7	30	12.45	186.5
W598894		4.82		0.31	8.40	10.7	1540	1.46	1.86	4.46	0.34	45.9	17.6	18	11.55	49.2
W598895		2.01		0.42	8.57	10.2	1260	1.44	1.92	4.28	0.27	48.9	15.3	17	11.55	67.3
W598896		3.89		0.59	8.33	12.6	900	1.40	3.06	3.34	0.41	42.8	10.4	23	14.55	113.5

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234055

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598857		2.79	15.30	0.09	3.4	0.035	1.63	29.2	64.9	1.26	753	1.57	0.05	9.4	8.4	1110
W598858		4.32	18.70	0.09	1.8	0.133	1.72	21.3	42.6	1.38	561	5.33	0.89	7.3	6.5	1180
W598859		5.10	20.0	0.08	1.5	0.167	1.74	17.1	29.1	1.55	488	3.08	1.67	6.8	5.9	1300
W598860		5.70	18.95	0.10	0.9	0.133	2.50	24.1	23.7	2.10	551	2.14	1.64	7.7	8.3	1390
W598861		5.79	15.10	0.10	1.1	0.681	2.83	26.8	41.5	0.73	2020	9.00	0.06	6.8	16.5	500
W598862		5.18	17.30	0.10	0.7	0.086	2.32	21.4	21.6	2.00	668	1.67	1.46	8.0	8.5	1390
W598863		5.91	19.80	0.09	0.8	0.106	2.31	18.0	19.4	1.82	421	1.55	1.14	8.0	8.5	1430
W598864		4.93	18.00	0.07	0.9	0.061	1.84	20.7	25.3	1.25	612	1.84	0.08	7.1	7.4	1330
W598865		7.49	17.50	0.08	0.6	0.067	1.91	15.9	22.6	1.25	312	4.08	0.80	6.4	9.0	1300
W598866		11.00	11.35	0.09	0.9	4.06	1.84	15.9	29.0	0.51	1850	16.15	0.14	4.4	14.0	360
W598867		5.16	16.15	0.06	1.3	0.108	1.94	17.7	28.6	1.13	326	4.30	0.36	5.9	9.0	1070
W598868		3.75	17.40	0.09	2.6	0.237	2.09	24.4	30.5	1.01	254	2.71	0.15	5.9	11.9	800
W598869		3.89	17.95	0.10	2.1	0.245	2.33	23.8	21.0	1.16	337	1.60	0.62	6.1	11.3	860
W598870		4.18	17.05	0.09	2.6	0.097	2.22	26.6	28.5	1.55	1240	2.36	0.06	8.6	10.3	1260
W598871		5.00	17.25	0.10	0.6	0.070	2.51	25.3	17.4	1.57	671	1.72	1.41	7.8	6.8	1320
W598872		4.67	17.45	0.09	0.6	0.093	2.12	24.1	19.8	1.19	741	3.31	0.32	7.8	7.2	1370
W598873		4.89	17.40	0.14	0.8	0.092	2.33	25.9	18.6	1.62	694	2.05	1.44	7.6	9.6	1300
W598874		4.73	17.20	0.13	0.8	0.067	2.34	28.2	26.5	1.43	734	1.91	1.16	7.9	8.8	1360
W598875		3.09	18.35	0.11	3.5	0.042	2.44	27.8	23.1	1.10	2000	3.05	0.99	11.9	8.3	1570
W598876		5.29	16.40	0.11	0.6	0.082	2.06	27.5	24.5	1.83	937	1.63	1.58	6.9	6.9	1490
W598877		5.43	17.05	0.11	0.6	0.058	2.12	27.6	20.7	1.94	870	1.67	2.04	6.5	7.0	1550
W598878		5.20	17.45	0.10	0.7	0.064	2.14	27.3	25.4	1.87	906	1.42	1.68	5.8	6.8	1470
W598879		5.07	16.85	0.10	0.6	0.064	1.98	27.3	24.3	1.88	921	1.68	1.56	6.9	6.5	1470
W598880		5.13	16.90	0.12	0.7	0.072	1.91	34.5	26.9	1.82	1030	1.91	1.62	7.9	6.6	1460
W598881		4.16	16.70	0.09	0.5	0.146	1.93	23.6	15.3	0.78	334	0.88	0.65	6.5	4.0	560
W598882		3.75	17.00	0.07	0.7	0.079	1.67	19.2	12.8	0.81	373	0.79	1.29	7.7	3.6	560
W598883		3.24	16.40	0.10	0.6	0.063	1.48	18.6	13.5	0.90	324	0.86	2.08	7.9	4.0	560
W598884		3.53	17.25	0.09	0.6	0.079	1.67	17.5	16.0	0.79	326	0.59	1.53	7.5	4.0	570
W598885		2.81	15.85	0.10	0.6	0.073	1.66	17.6	17.7	1.01	641	0.66	1.04	7.0	3.5	530
W598886		3.10	15.60	0.11	1.0	0.095	1.72	20.7	25.0	1.10	447	2.99	1.06	8.1	3.3	500
W598887		4.04	16.90	0.10	1.3	0.159	2.13	25.5	24.8	0.74	356	1.45	0.44	7.6	6.1	670
W598888		3.27	17.70	0.09	0.6	0.121	1.85	18.7	17.5	0.95	275	1.42	0.73	6.6	3.2	610
W598889		0.13	0.46	0.08	0.1	<0.005	0.04	1.1	1.2	1.70	100	0.06	0.07	0.2	0.4	50
W598890		4.24	19.40	0.10	0.6	0.107	1.40	19.2	17.0	1.36	301	0.83	1.82	6.6	5.5	1230
W598891		4.19	18.95	0.09	0.6	0.099	1.41	19.7	16.8	1.41	298	1.14	1.87	6.4	5.2	1280
W598892		4.83	17.90	0.11	0.6	0.073	1.68	23.2	20.4	1.95	707	0.87	1.82	6.9	6.8	1570
W598893		5.95	18.95	0.09	0.5	0.094	1.87	19.5	22.1	2.14	724	0.72	2.10	5.4	10.7	1210
W598894		5.50	18.65	0.11	0.5	0.084	1.65	22.7	21.7	1.90	795	0.93	2.14	6.5	7.8	1110
W598895		5.26	18.25	0.09	0.5	0.075	1.60	25.2	21.7	1.94	702	0.88	1.95	6.6	7.3	1240
W598896		5.22	18.55	0.09	0.5	0.084	1.62	22.1	25.4	1.85	554	0.92	2.10	6.8	6.5	820

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CERTIFICATE OF ANALYSIS WH20234055

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598857		17.5	71.4	<0.002	0.13	33.5	6.5	<1	1.2	142.5	0.63	0.08	7.37	0.317	1.07	13.0
W598858		79.3	67.2	0.003	2.04	18.30	13.1	<1	4.8	317	0.48	0.64	6.02	0.378	1.67	5.6
W598859		103.0	62.0	0.002	2.58	11.95	15.6	1	6.1	430	0.44	1.50	4.87	0.438	1.68	3.9
W598860		26.5	103.5	<0.002	2.36	4.60	20.9	1	3.7	543	0.52	1.01	8.95	0.470	1.79	3.4
W598861		1775	167.0	<0.002	3.36	49.9	9.9	<1	6.4	80.7	0.56	0.21	12.70	0.204	2.86	4.9
W598862		18.3	74.0	<0.002	0.90	2.39	19.6	<1	3.1	558	0.54	0.61	8.36	0.468	1.49	3.2
W598863		25.6	71.4	<0.002	2.24	5.95	19.9	1	5.8	432	0.56	0.43	7.97	0.463	1.88	3.1
W598864		90.3	76.0	<0.002	2.32	46.7	18.1	1	5.4	227	0.49	0.44	7.95	0.399	1.57	4.0
W598865		111.5	60.2	<0.002	6.10	6.25	18.8	3	3.7	322	0.39	0.73	7.58	0.376	1.39	4.0
W598866		9040	107.5	0.002	>10.0	234	7.1	2	10.1	87.9	0.33	2.03	6.95	0.138	1.78	4.3
W598867		40.6	63.2	<0.002	3.81	57.4	14.5	2	3.7	238	0.42	0.56	7.36	0.335	1.20	4.7
W598868		40.0	63.3	<0.002	2.80	161.0	8.7	2	3.5	186.0	0.44	0.50	7.72	0.257	1.25	5.4
W598869		122.5	78.1	<0.002	2.76	25.0	10.0	1	3.6	298	0.44	0.56	7.67	0.270	1.51	4.9
W598870		155.5	90.6	<0.002	2.11	33.9	11.1	1	2.8	191.0	0.55	0.23	7.85	0.342	1.65	7.1
W598871		24.4	95.0	<0.002	1.39	4.27	17.1	1	3.7	527	0.53	1.59	9.06	0.400	1.61	3.8
W598872		22.0	74.8	<0.002	1.85	65.6	17.0	1	4.4	235	0.53	1.52	9.55	0.401	1.84	4.5
W598873		25.5	88.0	0.002	1.31	7.98	16.1	1	4.2	534	0.50	1.07	9.30	0.394	1.44	4.0
W598874		307	103.0	0.002	1.71	10.40	15.9	2	3.7	437	0.49	1.84	9.72	0.395	1.42	4.9
W598875		209	87.5	<0.002	0.38	12.95	7.8	1	1.8	367	0.73	0.08	7.50	0.386	1.74	5.3
W598876		20.9	84.8	<0.002	0.74	4.28	16.2	<1	2.5	617	0.43	0.19	7.89	0.417	1.38	4.1
W598877		17.3	90.4	<0.002	0.99	1.88	17.1	1	2.6	691	0.50	0.24	7.40	0.426	1.46	2.3
W598878		15.8	83.4	<0.002	0.61	2.01	16.5	1	2.0	705	0.40	0.15	8.30	0.419	1.33	2.2
W598879		14.4	70.0	0.003	0.37	2.18	17.1	1	2.0	630	0.44	0.11	7.95	0.424	1.17	2.3
W598880		16.0	74.2	<0.002	0.40	9.19	17.9	1	2.3	630	0.52	0.22	9.01	0.416	1.22	2.7
W598881		20.5	84.5	<0.002	1.72	11.45	11.5	1	3.7	168.5	0.52	5.09	9.97	0.258	2.42	2.4
W598882		35.9	67.3	<0.002	1.37	4.84	11.6	1	5.8	298	0.64	1.05	10.45	0.291	2.49	2.2
W598883		27.2	45.3	<0.002	0.87	5.57	11.0	1	4.8	394	0.65	0.94	9.99	0.291	1.74	3.4
W598884		23.4	68.9	0.002	1.72	3.58	11.8	1	6.1	289	0.61	1.50	9.44	0.293	1.65	2.7
W598885		19.3	66.6	<0.002	0.83	7.49	10.7	1	6.1	368	0.59	0.89	8.60	0.270	1.79	2.5
W598886		57.6	80.2	<0.002	1.36	20.3	9.8	1	5.2	230	0.73	0.65	10.60	0.250	1.42	6.2
W598887		37.8	105.5	<0.002	2.83	7.62	11.8	1	6.2	162.5	0.58	0.98	9.69	0.285	1.51	3.9
W598888		23.2	72.5	0.002	2.12	2.34	11.7	2	5.3	167.0	0.50	22.8	7.91	0.273	1.53	2.8
W598889		0.5	1.1	<0.002	0.01	0.10	0.3	1	0.2	80.9	<0.05	<0.05	0.12	0.007	<0.02	0.3
W598890		26.0	41.2	<0.002	2.34	1.76	11.6	1	5.8	408	0.43	0.38	6.51	0.345	1.03	2.6
W598891		26.7	40.5	<0.002	2.35	1.72	11.9	1	5.9	422	0.41	0.37	7.06	0.357	1.03	2.8
W598892		31.5	57.8	0.002	1.32	2.01	15.6	1	4.8	566	0.46	0.18	7.02	0.393	1.23	2.8
W598893		27.3	53.1	0.002	2.14	1.71	15.7	1	5.2	582	0.37	0.27	4.68	0.403	1.39	1.8
W598894		20.9	46.7	<0.002	1.43	1.40	17.1	1	3.4	579	0.46	0.20	5.34	0.375	1.07	1.7
W598895		18.5	59.1	0.002	1.51	1.24	17.3	1	3.7	539	0.47	0.25	6.18	0.379	1.07	1.8
W598896		19.1	65.0	0.002	2.09	3.35	17.1	1	3.9	490	0.49	0.44	6.88	0.345	1.19	2.0

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234055

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598857		67	2.2	11.4	77	124.5	0.006
W598858		130	9.0	14.2	190	60.1	0.039
W598859		161	24.8	15.3	310	43.9	0.035
W598860		184	8.8	17.7	100	18.7	0.077
W598861		64	6.1	11.9	2850	28.3	0.645
W598862		186	6.3	17.1	73	12.5	0.012
W598863		195	10.4	15.1	79	12.9	0.016
W598864		172	9.7	16.5	126	21.6	0.015
W598865		166	18.0	13.2	182	11.6	0.016
W598866		47	4.1	9.2	>10000	21.5	2.91
W598867		131	18.9	12.1	94	38.7	0.017
W598868		77	14.9	11.7	136	82.1	0.027
W598869		88	18.5	11.7	334	66.4	0.064
W598870		103	11.0	13.4	285	90.6	0.018
W598871		146	8.3	18.3	79	11.3	0.029
W598872		151	13.8	18.6	78	12.3	0.054
W598873		145	7.2	19.8	100	17.0	0.035
W598874		135	13.9	17.1	382	24.3	0.061
W598875		83	3.3	11.7	499	148.5	0.009
W598876		155	3.3	20.8	88	13.7	0.011
W598877		166	5.5	20.0	78	13.6	0.011
W598878		157	5.1	19.3	96	14.9	0.006
W598879		161	3.2	19.4	66	12.7	0.008
W598880		161	4.0	22.8	89	14.3	0.005
W598881		92	5.9	11.6	69	12.3	0.009
W598882		99	4.8	13.5	109	15.8	0.006
W598883		91	2.4	11.8	73	14.0	0.005
W598884		95	3.8	11.8	115	12.8	0.016
W598885		87	3.8	11.8	144	13.3	0.028
W598886		77	5.8	14.7	131	25.8	0.049
W598887		96	6.9	14.7	76	42.0	0.121
W598888		103	14.1	12.8	48	13.5	0.010
W598889		2	0.1	2.0	3	2.3	<0.005
W598890		116	11.4	13.1	82	12.7	0.008
W598891		120	11.5	13.3	89	11.7	0.008
W598892		142	6.1	17.9	118	13.5	0.011
W598893		153	7.4	15.4	96	12.5	0.020
W598894		146	4.8	16.9	84	12.3	0.006
W598895		147	6.8	18.1	77	12.3	0.006
W598896		137	7.8	17.2	74	10.7	0.009

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234055

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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CERTIFICATE WH20234063

Project: Klaza

P.O. No.: Batch 65

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 31-DEC-2020
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CERTIFICATE OF ANALYSIS WH20234063

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598731		7.94		0.21	7.55	5.8	2310	1.47	0.09	2.61	1.32	47.2	7.3	12	16.40	10.7
W598732		5.84		0.15	7.34	19.2	1880	1.38	0.07	3.23	0.37	47.3	7.1	10	28.1	7.2
W598733		5.34		0.22	7.49	11.6	2100	1.47	0.35	3.11	0.18	54.0	7.9	11	15.30	2.3
W598734		5.51		0.17	6.93	8.0	2000	1.44	0.15	2.81	0.44	33.7	8.0	11	13.90	5.7
W598735		8.93		0.15	7.50	8.5	2210	1.67	0.06	2.81	0.71	46.4	7.3	12	21.1	9.3
W598736		3.02		0.19	6.70	33.1	1920	1.58	0.07	2.91	0.22	45.4	7.0	9	23.7	6.8
W598737		3.60		0.31	7.21	61.3	960	1.95	0.09	2.67	0.57	47.1	6.6	9	18.50	8.9
W598738		5.25		<0.01	0.17	<0.2	30	0.11	0.02	33.3	<0.02	1.08	0.7	1	0.09	1.5
W598739		7.94		0.25	7.62	25.3	1900	1.51	0.18	2.49	2.56	47.0	7.4	11	19.45	9.2
W598740		4.63		0.09	7.46	4.3	2270	1.57	0.09	2.93	0.11	39.7	7.9	12	16.55	6.6
W598741		5.13		0.07	7.21	5.0	2300	1.61	0.09	2.57	0.12	40.6	7.9	12	13.95	6.2
W598742		8.26		0.12	7.13	6.4	2180	1.68	0.10	2.71	0.13	45.1	7.9	13	15.90	10.3
W598743		2.66		0.13	6.68	13.4	3000	1.86	0.10	2.70	0.45	45.3	7.4	8	27.3	8.4
W598744		0.26	1.435	96.4	4.63	4090	110	1.18	50.3	1.56	201	28.9	63.6	37	9.79	1305
W598745		8.34		0.16	7.38	7.7	2070	1.73	0.15	2.60	0.25	39.0	7.5	13	22.0	9.4
W598746		7.48		0.11	7.10	12.6	2140	1.57	0.15	3.03	0.17	42.0	7.0	11	11.80	6.3
W598747		2.91		0.36	6.85	45.8	1430	1.51	0.20	3.24	0.29	44.6	7.3	9	17.45	5.9
W598748		7.91		0.17	7.43	31.7	2070	1.54	0.38	2.65	0.21	46.4	7.1	12	13.80	6.6
W598749		8.19		0.15	6.72	11.1	2090	1.54	0.50	3.77	0.18	40.6	9.7	10	14.55	5.9
W598750		<0.02		0.18	6.95	10.0	2050	1.44	0.45	3.81	0.17	45.7	8.9	9	13.95	5.8
C304501		3.60		0.12	6.77	8.6	3090	1.20	0.34	2.13	0.46	47.8	8.7	11	11.25	2.9
C304502		7.51		0.24	7.74	12.0	2750	1.63	0.18	2.42	0.26	42.6	4.7	12	10.45	2.9
C304503		5.81		0.16	7.07	11.3	1760	1.61	0.45	2.71	0.22	43.3	9.7	11	11.10	5.2
C304504		2.46		0.87	7.03	61.6	1670	1.70	0.25	2.67	10.60	38.8	6.8	9	14.35	8.8
C304505		6.62		0.30	7.13	42.8	2030	1.66	0.25	2.82	0.54	39.1	9.1	10	15.45	4.3
C304506		0.26		10.05	7.00	2050	350	1.48	6.17	1.84	37.4	47.1	11.9	32	16.80	209
C304507		8.71		0.21	7.31	11.4	2400	1.68	0.45	3.39	0.25	42.8	11.1	10	18.45	4.5
C304508		1.70		0.19	7.27	19.1	2300	1.44	0.49	3.66	0.16	36.7	13.2	9	14.40	6.2
C304509		2.43		0.10	7.58	12.3	1820	1.49	0.27	1.82	0.08	40.1	3.6	10	11.55	1.7
C304510		2.85		0.09	7.41	19.8	380	1.74	0.51	2.92	0.15	43.6	8.7	10	14.00	3.1
C304511		2.77		0.17	7.61	12.8	3960	1.61	0.52	4.29	0.18	56.9	8.0	9	16.55	3.5
C304512		3.14		0.09	6.96	13.1	1970	1.32	0.37	2.82	0.13	41.2	3.8	9	16.75	2.3
C304513		4.86		0.34	7.39	16.2	2650	1.72	1.16	3.05	0.24	45.9	22.9	9	22.0	9.0
C304514		5.98		0.24	7.54	15.6	1790	1.63	0.90	3.13	0.29	44.8	25.6	11	18.50	5.0
C304515		2.41		0.84	8.10	223	1380	1.76	0.60	3.01	1.90	39.6	13.6	10	16.75	6.9
C304516		3.83		0.23	7.16	17.3	1460	1.48	0.43	2.50	1.11	39.7	5.6	11	15.85	18.2
C304517		3.99		2.11	6.92	643	850	1.51	1.40	2.26	55.1	43.6	5.9	10	26.0	79.5
C304518		1.57		0.80	6.85	167.5	350	1.48	0.47	2.73	11.00	41.8	7.3	9	22.7	83.0
C304519		1.22		3.18	7.24	1440	370	1.44	2.48	1.47	47.1	45.8	12.0	9	10.90	46.0
C304520		0.97		3.56	6.97	3020	370	1.50	2.70	1.35	64.1	46.4	10.7	10	11.60	72.7

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CERTIFICATE OF ANALYSIS WH20234063

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598731		3.06	15.60	0.09	1.2	0.050	2.93	24.6	20.1	0.76	813	1.29	2.07	8.1	2.3	590
W598732		2.86	15.30	0.11	1.1	0.037	2.82	24.6	126.5	0.91	974	0.90	0.15	7.9	2.1	580
W598733		2.61	16.75	0.14	1.0	0.100	2.74	28.9	25.0	0.84	697	0.54	2.14	8.1	2.4	570
W598734		2.69	15.30	0.10	1.0	0.044	2.73	17.2	14.0	0.84	633	0.66	2.17	7.9	2.5	570
W598735		2.90	16.10	0.10	1.1	0.046	2.90	24.1	61.0	0.77	827	0.65	1.50	8.2	2.3	590
W598736		2.64	13.20	0.09	1.0	0.044	2.67	25.0	106.0	0.98	1250	0.70	0.06	6.5	1.9	500
W598737		2.87	15.35	0.10	1.1	0.067	2.83	24.5	334	0.86	1590	0.76	0.04	7.9	2.0	610
W598738		0.08	0.51	0.09	0.3	<0.005	0.06	1.2	2.0	1.73	90	<0.05	0.07	0.3	0.4	60
W598739		3.09	15.15	0.13	1.3	0.082	2.93	24.5	44.8	0.74	1010	1.16	1.65	8.2	2.1	580
W598740		2.89	16.35	0.10	1.5	0.042	2.94	19.4	14.2	0.73	787	2.62	2.39	8.5	2.6	570
W598741		2.84	16.25	0.10	1.4	0.039	2.89	20.4	14.9	0.80	735	1.14	2.36	8.6	3.8	570
W598742		2.77	17.50	0.08	1.4	0.039	2.74	22.8	16.7	0.67	717	1.71	2.09	9.2	5.0	580
W598743		2.47	16.20	0.09	1.3	0.044	2.60	23.9	187.0	0.79	1240	1.21	0.08	8.0	2.9	530
W598744		11.70	12.90	0.10	0.8	4.37	1.95	14.2	33.0	0.54	1980	18.15	0.15	4.8	18.0	370
W598745		2.85	17.45	0.09	1.3	0.038	2.74	19.4	35.7	0.61	616	1.27	1.73	9.1	2.6	580
W598746		2.79	17.35	0.09	1.1	0.043	2.58	21.0	14.3	0.69	745	1.57	2.18	8.7	2.4	590
W598747		2.77	16.05	0.10	1.1	0.057	2.64	22.2	14.1	0.95	1710	0.90	0.88	8.0	2.4	580
W598748		2.91	16.75	0.11	1.1	0.044	2.80	24.0	11.6	0.76	780	1.03	2.00	8.6	2.4	590
W598749		2.86	16.30	0.07	1.0	0.065	1.69	20.6	23.2	0.69	591	0.36	2.15	8.4	2.4	560
W598750		2.80	15.60	0.09	0.9	0.064	1.67	23.9	22.0	0.69	581	0.29	2.09	8.0	2.2	560
C304501		2.64	15.10	0.08	0.9	0.057	2.39	24.8	14.2	0.85	507	0.19	2.35	7.7	2.1	530
C304502		3.07	16.00	0.08	0.9	0.046	2.51	21.8	15.4	0.89	634	0.33	2.65	8.2	2.2	620
C304503		3.13	15.95	0.08	1.0	0.056	1.61	21.7	18.3	0.91	639	0.23	2.59	8.2	2.5	610
C304504		3.45	16.20	0.09	1.0	0.116	2.76	18.8	13.3	0.67	1040	0.47	0.99	8.0	2.2	580
C304505		3.03	16.60	0.09	1.1	0.048	2.28	19.3	17.7	0.80	1150	0.29	1.43	8.4	2.4	590
C304506		6.22	15.90	0.08	1.1	0.680	2.99	25.1	41.6	0.78	2160	8.56	0.07	6.9	17.4	540
C304507		3.52	17.45	0.08	0.9	0.070	2.02	21.5	24.9	0.81	608	0.38	1.73	8.2	3.0	610
C304508		3.66	20.7	0.08	1.0	0.061	2.52	18.6	36.7	1.12	650	0.21	0.73	7.6	2.6	530
C304509		3.02	17.20	0.07	1.0	0.064	2.21	19.7	41.7	0.52	393	0.22	0.62	8.7	1.9	620
C304510		2.94	17.80	0.07	1.2	0.054	1.26	21.8	253	0.85	598	0.26	0.06	9.4	2.9	660
C304511		3.71	18.50	0.09	1.2	0.093	2.22	30.5	121.0	1.33	1260	0.26	0.06	9.5	2.8	640
C304512		2.90	16.65	0.09	1.1	0.045	2.62	20.1	58.3	0.83	693	0.31	0.07	8.3	2.2	580
C304513		2.83	21.7	0.09	1.0	0.061	2.51	23.1	98.2	0.91	613	0.57	0.06	8.8	3.1	620
C304514		3.30	18.35	0.09	1.0	0.049	1.88	22.7	130.5	0.86	639	1.55	0.04	8.5	3.3	640
C304515		3.77	23.6	0.08	1.1	0.087	2.69	19.0	79.7	0.83	714	0.26	0.25	9.0	2.7	690
C304516		3.41	17.00	0.08	1.1	0.072	2.48	19.7	91.0	0.74	832	1.09	0.08	8.8	2.4	630
C304517		3.68	15.30	0.07	0.9	0.569	2.76	23.1	45.6	0.79	1860	0.68	0.08	7.3	2.3	540
C304518		2.94	15.65	0.08	1.0	0.548	3.09	20.1	19.9	0.85	2200	0.56	0.03	7.9	2.5	600
C304519		4.98	16.50	0.09	1.0	0.835	3.31	24.7	18.6	0.69	2910	1.61	0.03	7.4	2.6	560
C304520		5.02	16.70	0.09	1.0	1.055	3.11	25.1	22.3	0.66	2730	1.57	0.03	7.3	2.8	550

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234063

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598731		72.3	106.0	<0.002	0.03	2.18	10.2	<1	1.5	356	0.64	<0.05	13.70	0.247	1.25	4.6
W598732		24.4	96.6	<0.002	0.16	9.81	9.9	<1	1.5	177.5	0.63	<0.05	12.90	0.246	1.59	5.7
W598733		20.5	117.0	<0.002	0.40	3.51	10.6	<1	2.0	291	0.61	0.07	13.45	0.242	1.51	4.9
W598734		91.6	89.9	<0.002	0.22	1.94	9.6	<1	1.6	346	0.61	0.05	10.25	0.240	1.35	3.8
W598735		50.8	108.0	<0.002	0.06	4.84	10.3	<1	1.6	321	0.65	<0.05	13.55	0.247	1.54	4.5
W598736		25.4	114.0	<0.002	0.24	13.75	8.7	<1	1.3	163.0	0.52	<0.05	12.10	0.213	1.97	7.1
W598737		51.5	122.0	<0.002	0.36	15.15	10.6	<1	1.6	162.5	0.59	<0.05	12.30	0.242	2.47	4.1
W598738		0.6	1.9	<0.002	<0.01	0.10	0.2	1	<0.2	79.6	0.05	<0.05	0.14	<0.005	0.03	0.4
W598739		52.6	114.0	<0.002	0.21	4.95	10.0	<1	1.7	300	0.70	<0.05	14.60	0.253	1.40	5.0
W598740		19.8	91.0	<0.002	0.02	1.38	9.6	<1	1.6	401	0.72	<0.05	12.20	0.253	1.15	4.8
W598741		19.1	92.7	<0.002	0.02	1.19	9.7	<1	1.5	395	0.68	<0.05	12.35	0.248	1.11	4.8
W598742		23.1	109.5	<0.002	0.04	2.60	10.0	<1	1.6	364	0.77	<0.05	14.25	0.252	1.18	5.0
W598743		24.2	99.1	<0.002	0.18	16.70	9.2	<1	1.6	157.0	0.68	<0.05	13.80	0.232	1.49	5.4
W598744		9460	116.5	0.002	>10.0	246	7.3	2	10.6	92.1	0.38	2.02	7.40	0.150	1.92	4.9
W598745		27.4	105.0	<0.002	0.03	5.23	9.9	<1	1.7	334	0.78	<0.05	13.00	0.262	1.19	4.8
W598746		23.8	92.4	<0.002	0.05	2.46	10.0	<1	1.5	369	0.70	<0.05	12.45	0.265	1.02	4.4
W598747		19.1	125.0	<0.002	0.75	6.21	9.5	<1	1.4	152.5	0.64	0.07	12.60	0.242	1.89	4.8
W598748		28.5	113.0	<0.002	0.13	3.86	10.4	<1	1.5	332	0.71	0.14	13.35	0.263	1.38	4.4
W598749		21.4	62.8	<0.002	0.15	8.94	9.9	<1	1.5	266	0.68	0.12	12.15	0.253	0.83	3.8
W598750		20.3	70.2	<0.002	0.14	8.49	9.8	<1	1.5	270	0.64	0.10	12.85	0.245	0.77	3.9
C304501		20.3	91.9	<0.002	0.14	5.06	9.5	<1	1.4	223	0.61	0.06	13.35	0.235	1.03	4.0
C304502		25.4	87.6	<0.002	0.04	3.44	9.9	<1	1.5	380	0.63	<0.05	13.00	0.278	0.93	3.8
C304503		22.5	56.3	<0.002	0.04	5.08	9.8	<1	1.4	423	0.63	0.06	11.25	0.266	0.77	3.7
C304504		664	109.5	<0.002	0.38	5.74	9.3	<1	1.6	246	0.65	<0.05	11.70	0.259	1.80	4.2
C304505		29.6	85.8	<0.002	0.12	6.37	9.7	<1	1.5	285	0.69	0.05	11.95	0.263	1.45	4.4
C304506		1860	178.5	<0.002	3.66	50.6	9.5	1	6.3	80.4	0.57	0.21	12.70	0.225	2.75	4.9
C304507		22.6	75.6	<0.002	0.26	6.26	10.7	1	1.7	388	0.59	0.10	11.50	0.274	0.92	4.1
C304508		17.8	85.5	<0.002	0.51	6.70	9.1	<1	1.7	298	0.65	0.07	10.30	0.239	1.44	4.6
C304509		12.7	84.4	<0.002	0.07	14.05	10.2	<1	1.5	176.5	0.70	<0.05	12.10	0.274	1.20	3.7
C304510		19.4	40.1	<0.002	0.16	12.20	10.8	<1	1.5	418	0.75	0.07	13.00	0.291	1.01	3.1
C304511		19.4	94.6	<0.002	0.32	9.84	11.4	<1	1.6	283	0.85	0.06	16.25	0.275	1.59	3.8
C304512		16.3	95.6	<0.002	0.16	7.60	9.3	<1	1.5	176.5	0.72	0.05	12.40	0.261	1.84	3.1
C304513		21.5	98.9	<0.002	1.05	7.98	10.5	<1	2.1	180.0	0.71	0.26	11.65	0.270	2.01	4.7
C304514		24.4	74.1	<0.002	1.38	7.24	10.1	1	1.7	230	0.69	0.26	11.80	0.270	1.48	4.9
C304515		97.6	82.7	<0.002	0.89	7.66	10.5	<1	2.0	200	0.74	0.11	11.10	0.289	2.01	5.9
C304516		28.8	84.1	<0.002	0.28	8.84	10.2	<1	3.7	166.5	0.70	0.05	12.20	0.278	1.76	4.8
C304517		149.0	142.5	<0.002	1.31	17.25	9.1	<1	4.1	120.0	0.58	<0.05	11.95	0.238	2.52	4.3
C304518		155.0	130.5	<0.002	0.63	9.80	9.5	<1	11.1	120.5	0.60	<0.05	10.15	0.261	3.13	4.7
C304519		247	193.0	<0.002	2.84	13.75	9.4	<1	5.2	55.3	0.58	0.08	12.30	0.239	3.07	7.9
C304520		277	191.5	<0.002	2.84	17.00	9.9	<1	6.0	62.3	0.57	0.08	13.05	0.228	2.92	6.3

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234063

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598731		69	1.8	17.1	133	30.2	<0.005
W598732		68	3.2	16.2	69	27.7	0.005
W598733		75	1.8	17.1	55	24.4	<0.005
W598734		69	1.1	14.7	65	24.2	0.005
W598735		68	1.5	16.8	93	29.8	<0.005
W598736		60	3.6	14.9	64	25.0	0.010
W598737		68	3.1	16.3	81	28.4	0.016
W598738		1	0.1	2.4	4	7.2	<0.005
W598739		70	2.2	16.8	219	30.3	0.006
W598740		70	1.8	15.6	52	34.9	<0.005
W598741		68	1.7	16.3	47	33.6	<0.005
W598742		67	1.8	17.5	51	35.6	<0.005
W598743		62	3.6	16.6	80	32.5	<0.005
W598744		49	4.8	10.0	>10000	23.7	3.01
W598745		69	2.4	15.1	68	33.0	<0.005
W598746		70	1.6	16.4	59	28.7	<0.005
W598747		63	3.2	16.0	87	27.2	0.014
W598748		70	1.5	16.8	58	26.8	0.007
W598749		69	3.6	17.7	46	25.2	0.011
W598750		67	3.4	18.4	45	24.5	0.011
C304501		61	2.2	15.0	52	22.6	0.006
C304502		71	1.8	15.8	73	24.0	<0.005
C304503		71	1.6	14.3	62	25.2	0.009
C304504		67	1.9	13.5	790	25.8	0.010
C304505		67	2.1	15.1	94	27.9	0.007
C304506		67	6.0	12.6	3080	29.6	0.612
C304507		82	2.9	16.6	67	24.2	0.009
C304508		90	3.0	14.6	60	23.8	0.011
C304509		72	2.6	13.7	61	25.4	<0.005
C304510		66	2.8	14.6	53	29.4	0.005
C304511		73	3.1	20.7	76	28.1	<0.005
C304512		67	2.4	13.9	64	24.9	0.005
C304513		84	2.7	15.5	62	25.4	0.010
C304514		77	2.8	14.5	63	26.4	0.012
C304515		113	2.4	14.8	249	27.3	0.035
C304516		77	2.5	13.4	132	27.3	0.007
C304517		63	4.0	12.8	3680	21.9	0.893
C304518		70	3.6	12.8	770	25.1	0.109
C304519		68	6.3	11.2	3360	24.8	0.354
C304520		64	6.3	11.7	4770	23.2	0.840

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234063

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE WH20234067

Project: Klaza

P.O. No.: Batch 66

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Finalized Date: 30-DEC-2020
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CERTIFICATE OF ANALYSIS WH20234067

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W598897		4.48		1.19	8.01	14.4	1100	1.35	3.66	2.88	0.71	34.0	15.9	16	11.30	294
W598898		2.37		0.50	7.72	14.3	890	1.42	4.24	3.34	0.32	35.5	9.5	13	10.15	99.4
W598899		3.59		0.68	7.50	11.5	540	1.44	2.32	3.31	0.76	35.1	5.0	13	8.93	110.5
W598900		2.41		1.61	8.05	50.7	450	1.43	5.75	3.15	0.87	41.2	3.1	15	8.50	212
C304001		5.47		0.49	7.71	319	340	1.58	1.54	3.49	0.32	55.0	6.9	24	15.35	96.7
C304002		0.26		9.79	6.46	1920	220	1.51	6.39	1.71	37.3	45.6	11.9	30	16.35	194.0
C304003		4.38		0.04	7.27	19.6	230	1.63	0.12	4.22	0.06	62.5	9.3	28	8.54	7.7
C304004		4.29		0.37	7.99	543	930	1.74	1.04	3.98	0.58	35.9	6.8	13	13.45	59.2
C304005		3.65		0.39	8.18	28.6	1300	1.71	1.22	4.20	0.26	35.5	10.0	16	10.15	65.5
C304006		3.85		1.13	8.49	18.1	1480	1.76	1.56	3.32	0.38	37.0	10.6	12	9.49	110.5
C304007		4.28		1.63	7.56	121.0	680	1.81	5.00	3.59	0.64	33.2	14.0	18	11.10	314
C304008		0.26	1.480	92.4	4.62	3950	900	1.06	52.2	1.52	195.5	29.9	60.1	36	9.38	1245
C304009		4.31		1.71	6.38	52.4	430	1.14	9.44	1.46	7.22	23.6	6.2	6	10.40	123.0
C304010		3.14		3.54	6.69	99.0	450	1.23	32.2	0.77	4.11	27.5	3.1	5	8.34	333
C304011		4.12		0.76	7.97	139.0	630	1.73	3.42	4.95	0.57	37.1	22.6	27	11.25	161.5
C304012		5.17		0.55	8.24	19.8	1130	1.62	3.83	3.31	0.34	37.7	13.8	24	13.60	117.5
C304013		4.82		0.41	8.41	37.5	780	1.68	2.36	6.11	0.47	39.6	7.3	24	10.15	71.3
C304014		4.57		0.86	8.00	123.5	570	1.61	6.81	3.48	0.78	30.9	4.3	22	8.85	147.0
C304015		5.17		0.02	0.12	0.6	20	0.08	0.04	34.8	0.02	0.93	0.5	3	0.05	0.9
C304016		3.84		1.34	8.67	36.1	450	1.56	5.66	3.36	0.88	23.3	2.2	28	9.23	223
C304017		2.65		3.45	7.81	115.5	590	1.23	4.28	3.20	1.08	22.1	4.3	59	8.65	546
C304018		4.52		2.00	7.75	32.5	700	1.60	13.25	2.86	0.53	52.4	9.6	21	7.86	237
C304019		5.26		1.19	7.66	19.9	930	1.62	3.19	3.04	0.58	48.9	11.9	22	6.28	182.0
C304020		1.98		1.31	7.99	20.0	1010	1.76	3.32	2.93	0.47	55.5	10.0	23	5.90	210
C304021		4.32		0.61	7.92	17.4	1490	1.77	4.56	2.91	0.29	54.1	9.2	22	5.67	51.4
C304022		4.68		0.70	7.71	13.0	1340	1.64	7.50	2.54	0.44	50.0	10.5	21	4.74	87.5
C304023		2.01		2.12	8.30	50.1	640	1.53	49.7	2.12	0.82	41.9	9.7	15	7.39	490
C304024		2.54		1.32	8.34	108.5	880	1.65	5.29	3.64	0.64	33.1	10.8	11	8.51	244
C304025		4.53		0.40	8.39	15.3	1110	1.39	3.30	4.44	0.28	31.0	15.9	20	7.35	63.4
C304026		4.53		0.99	8.56	45.9	1440	1.73	3.53	2.57	0.67	40.2	7.1	13	6.85	220
C304027		3.81		0.79	8.49	35.7	1090	1.52	5.50	2.23	0.51	38.2	7.6	13	7.49	190.0
C304028		2.64		1.80	8.85	37.5	1350	1.68	43.4	2.08	0.60	33.2	8.1	14	8.13	304
C304029		3.96		0.60	8.53	33.7	1020	1.59	6.30	2.90	0.57	28.8	7.6	12	8.04	127.5
C304030		4.77		0.15	8.57	18.1	1320	1.78	1.89	4.24	0.19	28.3	12.0	14	12.55	29.0
C304031		2.43		0.70	8.95	22.0	860	1.88	8.82	3.16	0.39	29.7	9.5	16	9.20	107.5
C304032		3.13		2.23	8.37	192.5	470	1.49	11.45	1.94	0.82	29.5	9.1	14	7.45	304
C304033		<0.02		2.52	8.10	181.0	390	1.48	11.05	1.86	0.79	28.6	9.1	13	7.13	296
C304034		3.52		0.66	9.27	41.2	450	1.71	3.38	1.42	0.71	33.9	7.2	21	8.90	111.5
C304035		3.39		0.67	9.71	34.1	580	1.53	2.93	1.08	0.91	25.3	5.8	16	10.95	111.0
C304036		3.74		4.60	8.12	187.5	470	1.88	57.2	2.18	1.25	25.2	11.9	15	20.1	750

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234067

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W598897		5.11	19.25	0.07	0.4	0.201	2.54	17.0	24.4	1.62	467	1.34	2.01	7.0	6.6	690
W598898		4.02	19.15	0.07	0.6	0.098	1.57	17.9	19.2	1.31	397	0.85	2.01	7.7	5.8	650
W598899		2.82	17.90	0.07	0.6	0.081	1.02	17.3	13.6	1.05	338	0.57	2.11	7.3	3.9	540
W598900		3.06	18.25	0.09	0.6	0.138	2.10	18.7	16.0	0.95	411	0.53	1.28	7.1	3.5	610
C304001		3.22	18.35	0.10	2.7	0.072	2.27	26.7	29.8	1.27	932	2.73	0.51	10.4	7.6	1240
C304002		5.83	15.75	0.09	1.1	0.668	2.81	24.5	40.8	0.72	2010	8.60	0.06	6.8	16.9	500
C304003		3.06	19.75	0.09	4.6	0.036	1.63	30.5	46.6	1.27	731	2.95	0.20	13.5	10.1	1680
C304004		3.40	18.10	0.12	0.6	0.133	2.21	17.5	16.7	1.18	804	0.64	1.46	7.5	4.2	710
C304005		4.42	18.00	0.11	0.6	0.067	1.97	18.4	20.8	1.43	590	0.60	1.96	7.1	5.5	800
C304006		4.25	18.45	0.11	0.5	0.049	2.33	20.6	28.3	1.32	402	0.67	2.36	7.2	4.6	650
C304007		5.52	17.75	0.11	0.6	0.155	2.73	16.9	16.7	1.28	504	1.70	0.93	6.6	8.8	1010
C304008		11.50	11.50	0.12	0.7	4.45	1.90	15.7	31.9	0.53	1870	16.70	0.15	4.3	14.9	370
C304009		2.05	9.99	0.10	2.5	0.196	2.88	11.5	13.9	0.65	215	9.23	0.04	9.4	0.9	110
C304010		1.86	10.95	0.10	2.5	0.166	2.91	13.7	26.2	0.40	160	3.22	0.04	10.1	0.7	110
C304011		6.08	19.35	0.12	0.4	0.134	2.13	18.3	22.6	1.40	682	1.66	0.93	6.8	12.4	1210
C304012		4.91	18.30	0.13	0.5	0.098	2.26	18.3	23.7	1.89	474	1.21	1.67	7.5	10.2	1390
C304013		3.90	18.20	0.10	0.5	0.141	1.17	19.5	23.3	1.76	692	0.65	2.44	7.4	7.1	1250
C304014		5.24	19.15	0.13	0.6	0.085	2.10	12.1	20.0	1.90	427	1.78	1.60	7.2	4.0	920
C304015		0.13	0.38	0.06	<0.1	<0.005	0.03	1.0	1.3	1.68	93	<0.05	0.05	0.2	0.3	60
C304016		5.64	20.4	0.12	0.6	0.118	2.44	8.1	19.3	1.93	387	2.33	1.71	4.6	1.9	540
C304017		5.69	18.45	0.12	0.5	0.117	3.35	7.7	15.9	1.64	410	3.54	0.07	3.1	8.4	710
C304018		4.34	21.2	0.15	2.5	0.045	2.56	27.2	14.8	1.20	236	4.27	0.82	6.7	14.8	890
C304019		4.21	19.70	0.13	2.6	0.056	2.33	25.8	16.0	1.34	290	0.61	1.43	6.8	16.4	890
C304020		4.21	20.4	0.15	2.7	0.060	2.34	28.0	17.2	1.44	305	0.41	1.60	7.0	16.1	920
C304021		3.82	20.8	0.15	2.4	0.084	2.71	28.1	15.2	1.48	389	0.89	1.78	7.6	16.2	840
C304022		4.13	20.2	0.16	2.6	0.077	2.61	25.2	17.1	1.50	384	1.07	1.69	7.3	16.2	870
C304023		6.45	21.8	0.14	1.3	0.298	2.79	20.0	18.8	1.74	380	1.50	0.92	5.9	8.1	600
C304024		6.56	21.6	0.11	0.5	0.176	2.39	13.2	21.5	2.29	575	0.78	1.27	6.0	10.5	850
C304025		5.86	19.10	0.11	0.5	0.151	1.74	14.6	20.3	1.89	632	1.27	2.02	6.5	8.9	1190
C304026		4.88	19.15	0.11	0.6	0.140	2.44	20.9	18.2	1.19	397	2.10	1.70	7.5	4.5	670
C304027		4.76	18.90	0.11	0.7	0.158	2.23	19.7	20.8	1.18	349	1.36	1.27	7.7	4.4	630
C304028		5.72	21.1	0.11	0.6	0.317	2.46	16.6	26.0	0.98	513	1.08	0.69	7.5	5.8	720
C304029		4.39	19.55	0.10	0.5	0.094	1.91	15.2	23.6	1.33	353	0.54	1.98	6.4	4.5	700
C304030		4.78	20.5	0.10	0.5	0.070	1.55	14.8	22.9	1.50	508	0.71	2.33	6.2	6.0	720
C304031		4.58	21.7	0.10	0.5	0.120	1.67	15.1	25.0	0.97	479	0.52	0.99	6.7	5.6	770
C304032		6.22	19.90	0.12	0.5	0.196	2.92	14.1	23.0	0.83	513	4.04	0.06	5.1	5.1	710
C304033		5.89	19.50	0.11	0.4	0.220	2.88	14.1	22.6	0.80	489	3.64	0.06	4.9	4.7	670
C304034		4.35	22.5	0.11	0.8	0.168	1.36	15.4	39.0	0.60	688	0.49	0.03	8.6	7.7	1260
C304035		4.16	21.7	0.09	0.6	0.154	1.80	10.2	51.7	0.59	750	0.56	0.04	7.7	5.2	800
C304036		6.26	19.10	0.09	0.4	0.427	2.89	11.5	16.8	0.95	6420	3.40	0.04	4.1	7.8	850

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Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20234067

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W598897		43.6	81.8	<0.002	2.40	6.16	12.2	1	3.8	425	0.49	1.01	6.15	0.325	1.93	2.1
W598898		21.8	55.6	0.002	1.62	1.47	12.6	1	4.9	380	0.56	0.49	7.20	0.331	1.37	2.5
W598899		31.1	49.1	<0.002	0.93	2.03	10.9	1	3.6	360	0.57	0.38	8.44	0.288	1.13	2.3
W598900		68.5	103.0	<0.002	1.80	3.63	11.8	1	5.3	235	0.57	0.36	8.58	0.278	2.15	3.1
C304001		22.6	95.1	<0.002	0.74	21.3	8.5	<1	2.8	183.0	0.63	0.14	6.99	0.378	2.10	5.6
C304002		1750	170.5	<0.002	3.41	48.8	9.2	1	6.2	79.6	0.56	0.20	12.05	0.210	2.77	4.8
C304003		5.1	44.5	<0.002	0.10	13.15	6.5	<1	1.2	163.5	0.79	<0.05	6.96	0.420	0.99	5.7
C304004		26.1	81.8	<0.002	1.18	7.05	11.6	1	5.5	350	0.53	0.12	8.77	0.325	2.26	4.1
C304005		16.5	62.6	<0.002	1.44	2.59	12.3	1	3.6	443	0.49	0.14	7.30	0.331	1.49	2.6
C304006		17.7	76.7	<0.002	1.72	2.30	8.2	1	3.8	472	0.51	0.31	8.02	0.319	1.68	3.8
C304007		22.4	81.5	<0.002	3.41	3.75	13.5	1	4.7	279	0.43	1.09	6.15	0.350	2.23	2.7
C304008		9190	114.5	0.002	>10.0	231	6.7	2	11.3	90.4	0.32	2.06	6.92	0.143	1.93	4.4
C304009		50.7	137.5	<0.002	1.68	16.00	2.1	1	3.1	119.5	1.09	2.09	13.35	0.055	2.33	7.5
C304010		56.4	124.5	<0.002	1.52	25.0	2.2	1	3.0	77.2	1.08	1.92	13.80	0.053	2.08	7.0
C304011		25.1	59.8	0.002	3.42	16.05	15.4	1	6.2	359	0.41	0.33	4.04	0.401	2.03	3.9
C304012		17.2	77.9	0.002	2.09	2.32	15.4	1	4.6	455	0.51	0.23	7.41	0.389	2.19	3.0
C304013		19.4	39.1	0.002	1.11	2.14	14.8	1	6.8	649	0.49	0.12	6.51	0.392	1.14	2.5
C304014		25.8	69.8	0.004	3.06	2.86	15.7	1	8.2	365	0.48	1.39	6.95	0.360	2.01	2.4
C304015		11.2	0.9	<0.002	0.01	0.07	0.3	1	<0.2	81.1	0.07	<0.05	0.10	0.006	0.02	0.2
C304016		55.7	83.8	0.004	3.41	2.72	19.1	1	9.4	389	0.26	0.40	3.19	0.427	2.41	2.0
C304017		20.1	156.0	0.013	3.21	48.0	18.5	1	9.1	151.5	0.19	0.21	3.73	0.268	2.75	2.4
C304018		20.8	110.0	0.004	2.12	4.19	9.9	1	5.5	197.0	0.44	0.33	7.79	0.321	2.01	4.6
C304019		15.1	90.4	0.003	1.89	2.87	9.7	1	5.5	356	0.44	0.13	7.96	0.324	1.68	4.3
C304020		15.6	93.7	<0.002	1.67	3.17	10.2	1	5.8	405	0.50	0.14	8.57	0.335	1.61	4.5
C304021		13.9	109.5	0.002	0.89	3.00	9.7	<1	7.6	515	0.50	0.16	8.75	0.325	1.94	4.4
C304022		19.4	95.8	<0.002	1.23	2.24	9.6	<1	7.1	451	0.49	0.22	8.36	0.328	1.89	5.0
C304023		21.4	135.0	0.007	3.70	3.43	18.0	2	9.3	287	0.37	5.48	6.21	0.340	2.17	3.4
C304024		30.6	60.2	0.010	3.56	3.87	17.1	1	10.4	400	0.35	0.23	2.50	0.429	1.78	3.0
C304025		17.7	50.0	0.005	2.19	3.51	16.0	1	8.4	516	0.45	0.26	5.33	0.402	1.52	2.2
C304026		25.4	95.0	<0.002	1.79	9.90	12.2	<1	6.6	370	0.58	0.33	9.77	0.317	2.01	5.1
C304027		23.6	84.4	0.002	1.67	13.00	14.2	<1	7.0	268	0.60	0.33	9.75	0.322	1.96	4.1
C304028		34.0	83.4	<0.002	1.69	16.30	13.0	1	7.1	187.5	0.53	0.20	7.32	0.364	2.16	3.9
C304029		24.4	60.9	0.002	1.77	5.86	8.2	1	5.7	345	0.45	0.25	6.34	0.335	1.62	2.4
C304030		15.7	44.0	0.002	1.19	5.97	10.8	1	4.9	503	0.39	0.10	4.95	0.358	1.28	1.9
C304031		20.3	59.1	<0.002	1.64	13.45	10.8	1	7.3	248	0.42	0.19	4.60	0.404	1.84	3.7
C304032		32.2	137.0	<0.002	4.19	69.9	7.8	1	7.5	80.8	0.33	0.77	4.89	0.266	2.81	2.3
C304033		30.2	133.5	<0.002	4.02	68.3	7.5	1	7.3	77.9	0.30	0.80	4.65	0.261	2.65	2.3
C304034		25.6	53.3	0.002	1.38	47.9	18.5	<1	10.4	65.5	0.56	0.20	6.68	0.448	1.63	3.5
C304035		26.5	77.8	0.002	1.18	59.4	14.3	1	8.5	68.6	0.50	0.20	5.44	0.396	1.96	3.1
C304036		95.5	105.0	<0.002	4.76	154.0	10.4	1	7.8	77.8	0.27	9.16	3.57	0.312	3.80	3.9

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CERTIFICATE OF ANALYSIS WH20234067

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
W598897		121	10.4	14.6	91	10.1	0.012
W598898		110	9.1	13.4	58	13.5	0.008
W598899		93	3.1	12.6	80	14.2	<0.005
W598900		98	4.3	12.4	88	13.4	0.017
C304001		85	4.9	11.7	80	108.5	0.033
C304002		62	5.9	12.4	2870	29.3	0.615
C304003		75	1.6	13.4	71	190.5	<0.005
C304004		112	4.0	13.2	78	14.3	0.110
C304005		119	4.2	12.8	61	12.6	0.010
C304006		101	7.7	10.0	62	12.4	0.011
C304007		136	13.4	11.3	83	12.9	0.058
C304008		48	4.3	9.1	>10000	21.1	2.84
C304009		14	7.7	10.4	557	63.7	0.015
C304010		11	6.9	9.4	316	66.5	0.017
C304011		145	10.5	14.8	86	9.7	0.033
C304012		137	8.2	16.5	62	10.5	0.014
C304013		140	2.4	18.5	69	11.5	0.008
C304014		145	10.0	16.3	91	15.5	0.019
C304015		2	0.1	2.1	4	1.3	0.005
C304016		164	8.5	17.2	102	15.3	0.026
C304017		160	5.8	17.4	120	14.8	0.107
C304018		86	10.2	13.5	62	91.0	0.012
C304019		86	6.1	13.2	83	93.1	0.017
C304020		87	5.6	13.7	78	94.0	0.017
C304021		81	2.4	14.2	63	83.8	0.008
C304022		83	2.6	13.4	73	83.8	0.007
C304023		111	7.8	15.5	90	44.3	0.110
C304024		160	6.8	18.0	92	13.2	0.095
C304025		149	2.8	16.4	69	12.6	0.019
C304026		107	6.7	14.9	79	14.2	0.053
C304027		111	6.7	14.1	67	15.8	0.024
C304028		117	17.1	12.1	80	13.0	0.170
C304029		103	6.2	8.8	70	10.9	0.011
C304030		119	3.2	9.3	53	14.3	0.010
C304031		132	4.7	8.8	56	11.3	0.013
C304032		99	7.0	10.7	81	11.6	0.338
C304033		96	7.0	9.9	81	11.4	0.314
C304034		168	6.0	13.5	72	17.1	0.009
C304035		139	8.1	8.8	104	14.3	0.017
C304036		129	12.5	8.3	164	10.0	0.354

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: +1 604 984 0221 Fax: +1 604 984 0218
www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20234067

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE WH20238418

Project: Klaza

P.O. No.: Batch 36

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 8-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20238418

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-GRA22 Au ppm 0.05	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001	Pb-OG62 Pb % 0.001	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01
B700741		2.26						84.1	6.97	1500	350	1.50	31.2	1.75	6.05	51.1
B700742		1.98		460		7.40	2.32	>100	4.40	>10000	250	0.82	1.15	1.01	348	20.5
B700743		2.02						12.35	4.43	646	30	0.97	18.00	2.23	2.31	109.0
B700744		1.50	59.8	425				>100	2.72	>10000	50	0.68	739	0.78	15.25	18.65
B700745		2.60						11.20	6.63	291	530	1.23	15.30	1.68	3.24	37.9
B700746		0.26	11.95	279		1.605	2.81	>100	3.43	>10000	50	0.91	132.0	2.30	403	23.1
B700747		1.94		126	2.96			>100	5.59	591	50	1.10	1155	0.31	9.65	35.3
B700748		2.91	12.80		2.43			58.4	5.34	1545	50	1.07	564	1.60	20.6	38.2
B700749		1.86						0.72	7.74	33.2	590	1.38	5.70	4.00	0.63	43.2
B700750		1.48						0.56	6.01	89.0	30	0.73	0.78	3.73	0.20	20.3
B700751		1.09						4.40	6.46	7640	270	1.35	0.55	5.84	16.70	34.8
B700752		1.43	9.40	128		1.420	3.14	>100	4.36	>10000	110	1.07	0.69	1.97	390	27.6
B700753		5.02						0.09	0.22	6.1	30	0.13	0.06	31.9	0.17	1.07
B700754		1.24		235				>100	6.33	3290	320	1.14	0.08	5.29	18.45	27.1
B700755		1.79						10.40	7.01	1290	270	1.35	0.10	5.48	15.95	37.7
B700756		3.56					1.555	30.1	6.26	3220	270	1.45	0.92	1.96	270	39.5
B700757		2.43						9.03	6.51	430	390	1.62	0.42	2.76	48.3	46.6
B700758		3.72					2.55	46.2	4.07	7010	60	0.98	22.3	5.64	393	27.6
B700759		3.68		303		1.045	5.54	>100	4.25	1875	60	0.96	39.9	4.41	742	23.1
B700760		<0.02		300		1.030	5.61	>100	4.12	1850	70	0.88	38.0	4.30	724	22.9
B700761		3.61						3.81	5.27	184.5	510	1.32	0.34	4.97	12.50	33.6
B700762		4.06						0.84	6.19	1060	690	1.37	0.16	3.45	3.71	42.7
B700763		3.07						9.16	4.52	972	460	1.45	10.25	4.95	136.5	64.5
B700764		2.79						13.10	7.06	354	450	1.65	6.00	0.88	123.5	43.8
B700765		1.39						6.22	7.17	246	380	1.63	2.28	1.18	83.7	46.9
B700766		3.03						7.37	6.93	102.5	1660	1.53	5.98	4.53	101.5	47.2
B700767		2.83						1.48	7.02	167.5	810	1.59	0.42	1.86	27.1	45.6
B700768		1.77						9.97	6.35	7380	300	1.06	9.78	2.34	2.19	24.2
B700769		2.11						0.52	6.69	8220	600	1.71	1.90	8.12	2.43	42.7
B700770		3.79						5.48	8.69	374	330	1.19	11.25	0.92	1.65	23.3
B700771		4.00						2.56	8.82	290	330	1.08	10.35	0.99	0.40	27.5
B700772		1.48						1.08	7.37	82.8	710	1.37	89.5	4.29	2.38	42.7
B700773		2.51						3.30	7.20	919	260	1.61	3.36	1.18	77.7	43.6
B700774		2.28						4.44	7.27	229	590	1.60	2.04	2.35	35.3	46.2
B700775		0.26					1.420	98.5	4.90	4160	580	1.12	49.9	1.60	205	31.2
B700776		1.75					1.360	61.9	6.71	517	280	1.45	54.2	2.19	239	42.9
B700777		1.73						2.13	5.93	390	560	1.32	2.39	2.44	44.6	39.3
B700778		2.28						1.80	6.65	378	300	1.03	6.43	0.43	0.54	40.5
B700779		7.36						0.94	6.27	85.8	250	0.78	3.32	0.84	1.68	18.55
B700780		5.08						0.89	6.50	93.2	270	0.89	4.21	1.67	1.08	42.9

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238418

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05
B700741		19.5	9	15.90	1500	5.48	15.10	0.10	0.9	0.762	3.30	27.9	37.8	0.58	1620	3.46
B700742		4.1	11	7.22	2000	5.87	9.83	0.09	0.6	1.040	1.97	9.2	20.0	0.37	1400	100.5
B700743		69.2	11	6.15	16.4	13.55	13.95	0.14	0.7	0.280	2.07	66.2	24.9	0.41	586	6.47
B700744		35.5	15	3.45	7890	20.3	6.34	0.11	0.3	3.64	1.29	9.8	12.2	0.26	1760	35.3
B700745		9.3	16	5.61	2580	6.26	16.85	0.09	0.5	0.772	2.86	20.2	29.3	0.96	860	2.33
B700746		13.1	33	9.43	2820	10.80	8.68	0.10	0.6	12.45	1.49	12.5	24.6	0.91	3910	27.6
B700747		28.5	15	14.50	>10000	13.65	17.15	0.12	0.4	7.06	2.31	17.6	40.6	0.47	627	3.37
B700748		14.0	10	21.5	>10000	13.70	13.55	0.12	0.4	12.10	2.13	18.6	19.6	0.65	1020	9.25
B700749		9.8	15	12.55	127.5	4.40	18.15	0.08	0.5	0.215	1.56	22.9	25.4	0.83	576	0.55
B700750		132.5	8	4.27	23.7	15.95	13.20	0.10	0.2	0.050	1.52	9.1	6.8	0.66	833	4.45
B700751		11.3	33	15.35	29.0	4.89	13.45	0.07	0.3	0.050	2.44	17.6	56.2	1.71	5190	2.01
B700752		7.4	14	8.78	236	10.55	12.15	0.10	0.3	0.539	1.92	14.2	17.9	0.77	4010	3.47
B700753		0.7	4	0.05	4.8	0.15	0.68	<0.05	0.1	<0.005	0.08	1.1	1.3	1.69	107	0.19
B700754		17.3	10	15.95	237	5.80	15.85	0.06	0.5	0.054	2.35	13.6	21.3	1.72	9990	2.51
B700755		14.7	17	25.3	48.3	4.76	17.55	0.08	0.7	0.065	2.03	18.6	71.1	1.85	2500	2.60
B700756		4.8	11	9.07	135.0	5.08	13.50	0.11	0.9	2.16	2.95	21.7	29.4	0.78	4120	1.45
B700757		6.4	12	12.65	41.9	4.29	14.80	0.11	0.9	0.229	2.84	25.6	19.5	1.03	1830	1.12
B700758		6.6	7	8.01	390	7.22	9.71	0.09	0.6	10.65	1.83	14.8	14.8	2.12	4490	3.62
B700759		4.8	12	4.38	2910	7.42	11.05	0.09	0.5	30.1	2.05	11.6	13.9	1.64	2140	2.32
B700760		4.8	9	4.15	2850	7.32	10.70	0.10	0.6	28.4	2.01	11.9	12.9	1.60	2080	2.38
B700761		4.8	11	8.04	22.4	3.11	12.20	0.09	0.7	0.096	2.49	18.1	17.5	1.55	1920	1.23
B700762		1.8	10	10.25	10.1	2.12	13.55	0.10	1.6	0.166	2.56	26.8	128.0	0.95	1610	0.67
B700763		5.3	8	12.75	47.9	4.57	11.10	0.10	1.1	4.38	1.77	42.2	36.9	1.75	3750	0.38
B700764		8.0	15	16.90	508	6.97	15.80	0.11	1.0	4.55	3.17	23.7	11.6	0.63	4960	1.67
B700765		8.2	12	18.60	176.0	6.10	16.50	0.12	1.0	2.77	3.17	25.3	14.5	0.67	4550	1.26
B700766		7.7	13	23.0	154.0	3.99	15.15	0.11	1.0	2.39	2.53	26.6	143.5	1.24	2220	1.41
B700767		6.5	12	17.60	14.7	4.02	14.80	0.11	1.1	0.967	2.99	24.9	16.0	0.74	3150	1.49
B700768		13.4	9	10.15	1070	4.96	14.65	0.11	0.4	0.214	2.88	10.2	15.0	1.08	2290	21.5
B700769		4.6	15	16.00	51.8	3.24	14.95	0.11	1.0	0.222	2.34	21.1	19.2	3.19	7690	1.01
B700770		3.2	15	9.26	1565	8.69	20.0	0.13	0.7	0.241	3.94	8.7	12.8	1.48	222	1.43
B700771		5.0	27	8.90	299	8.38	24.9	0.13	0.5	0.123	3.90	10.5	13.3	1.52	231	1.37
B700772		9.0	11	8.67	254	4.96	17.30	0.11	0.4	0.214	2.86	25.4	31.1	1.35	585	11.15
B700773		10.2	12	13.35	61.9	5.34	16.10	0.12	1.0	2.14	3.25	24.2	19.1	0.57	1680	1.02
B700774		12.7	12	17.45	104.0	3.82	15.40	0.11	1.0	0.619	2.96	25.2	87.4	0.74	1340	0.92
B700775		61.6	37	9.43	1295	11.85	12.35	0.13	0.8	4.48	2.03	16.5	32.7	0.55	1940	17.10
B700776		8.0	14	15.40	824	4.84	13.95	0.12	0.9	12.30	3.21	23.7	27.5	0.73	1600	0.54
B700777		6.0	12	11.20	39.7	4.20	13.25	0.10	0.8	1.325	2.81	21.5	23.4	0.72	2210	2.79
B700778		26.3	17	6.87	46.7	12.05	18.05	0.18	0.3	0.120	3.30	21.3	6.2	0.53	357	8.44
B700779		29.6	32	3.45	26.1	7.00	16.75	0.11	0.3	0.098	3.12	8.7	6.7	0.59	541	9.68
B700780		35.6	38	5.19	44.9	8.45	16.10	0.16	0.5	0.098	3.24	22.4	6.1	1.03	711	4.27

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Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238418

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05
B700741		0.06	7.2	2.9	520	863	174.0	<0.002	4.10	436	9.1	1	3.4	126.0	0.52	0.40
B700742		0.03	3.7	3.6	320	>10000	99.8	0.022	7.22	1420	5.0	1	7.0	31.6	0.33	<0.05
B700743		0.04	4.0	4.3	180	452	124.0	0.002	>10.0	11.20	4.5	2	10.4	81.7	0.36	1.72
B700744		0.02	2.4	2.2	180	7390	75.6	0.005	>10.0	1170	3.0	1	7.6	17.4	0.21	1.59
B700745		0.05	4.9	4.4	470	112.0	132.5	<0.002	3.76	30.0	9.9	1	10.7	45.8	0.41	0.49
B700746		0.02	3.3	12.6	240	>10000	83.8	0.003	9.74	628	4.4	2	15.3	78.4	0.26	0.68
B700747		0.04	4.2	3.8	420	113.0	102.0	0.002	>10.0	57.1	9.0	6	20.2	22.5	0.32	5.09
B700748		0.05	5.0	5.2	420	176.5	87.3	0.004	>10.0	386	7.7	8	35.6	49.6	0.38	6.29
B700749		0.89	7.9	4.5	570	26.8	71.0	<0.002	1.87	4.53	10.9	<1	6.0	188.5	0.58	0.17
B700750		2.20	2.5	8.8	390	25.4	71.6	0.008	>10.0	2.06	3.0	3	4.8	210	0.17	0.13
B700751		0.15	5.8	16.0	870	510	110.5	<0.002	3.11	46.7	7.1	<1	3.5	273	0.42	0.10
B700752		0.02	5.0	5.4	720	>10000	98.3	<0.002	>10.0	126.5	5.0	1	11.9	74.7	0.33	<0.05
B700753		0.10	0.7	0.3	70	6.8	2.3	<0.002	0.02	0.23	0.2	1	0.2	75.2	0.08	<0.05
B700754		0.17	2.9	2.4	970	1100	124.0	<0.002	3.91	319	15.9	1	4.4	235	0.18	<0.05
B700755		0.05	6.1	3.9	940	2270	95.1	<0.002	1.79	45.7	14.4	1	2.0	264	0.35	<0.05
B700756		0.03	6.4	4.6	460	5550	144.0	<0.002	3.14	37.7	8.5	<1	3.4	46.3	0.55	0.05
B700757		0.03	6.6	2.2	450	2960	162.0	<0.002	1.58	18.35	8.4	<1	2.3	96.0	0.57	<0.05
B700758		0.02	4.1	2.3	300	3740	114.5	<0.002	5.84	92.3	5.7	1	3.8	89.6	0.36	0.07
B700759		0.02	4.0	1.8	310	>10000	131.5	<0.002	8.51	672	6.7	2	4.6	66.9	0.32	0.13
B700760		0.02	3.9	2.1	300	>10000	126.0	<0.002	8.33	657	6.3	2	4.5	65.1	0.33	0.14
B700761		0.03	5.2	2.0	430	2520	142.0	<0.002	0.98	11.15	7.2	<1	1.8	117.5	0.41	0.05
B700762		0.08	7.4	1.4	350	158.5	163.5	<0.002	0.40	13.65	6.7	<1	3.2	94.1	1.04	<0.05
B700763		0.06	5.0	1.4	260	1430	116.0	<0.002	1.65	23.2	6.0	1	3.5	92.2	0.73	0.08
B700764		0.02	6.7	2.7	500	426	169.0	<0.002	2.69	83.7	9.8	<1	4.3	47.9	0.56	<0.05
B700765		0.02	7.4	2.4	530	486	182.0	<0.002	2.06	32.6	10.6	<1	3.9	89.1	0.59	<0.05
B700766		0.20	7.0	2.5	530	1385	129.0	<0.002	1.04	12.35	10.7	<1	1.9	188.0	0.57	<0.05
B700767		0.03	6.8	2.1	520	237	160.0	<0.002	1.66	14.70	9.4	<1	2.6	72.7	0.62	<0.05
B700768		0.06	3.9	5.2	300	62.4	177.5	<0.002	4.50	414	5.7	1	6.7	66.4	0.31	2.52
B700769		0.14	6.3	5.3	980	35.9	137.0	<0.002	1.23	44.2	12.8	1	4.2	270	0.43	0.40
B700770		0.08	2.4	2.3	340	24.0	242	0.013	7.25	6.24	19.7	1	13.1	29.9	0.15	0.43
B700771		0.08	2.7	3.3	760	39.0	195.5	0.010	7.04	4.64	19.7	1	18.7	32.2	0.19	0.28
B700772		0.18	5.6	4.8	600	58.7	151.5	<0.002	3.20	63.9	9.0	1	7.0	168.0	0.41	0.82
B700773		0.03	6.9	2.4	550	473	188.5	<0.002	3.84	15.20	10.4	<1	5.4	51.0	0.58	0.12
B700774		0.06	7.1	2.8	590	105.0	150.5	<0.002	2.21	22.8	10.6	1	3.3	123.5	0.57	1.00
B700775		0.15	4.5	14.6	400	9610	118.5	<0.002	>10.0	249	7.3	2	11.0	96.2	0.38	1.78
B700776		0.19	6.0	2.1	530	894	169.5	<0.002	3.64	71.3	9.7	<1	2.7	135.0	0.54	0.15
B700777		0.03	5.5	2.5	460	210	174.0	<0.002	2.05	18.05	8.3	<1	5.0	75.7	0.47	<0.05
B700778		0.05	2.0	5.6	580	72.2	226	0.002	>10.0	15.95	12.1	15	16.4	27.9	0.18	2.55
B700779		0.06	1.4	9.1	1250	81.0	145.5	0.003	7.30	9.65	16.1	5	27.8	26.9	0.11	0.95
B700780		0.05	1.1	10.8	1370	80.2	160.0	<0.002	8.75	9.12	17.5	4	17.0	42.6	0.11	1.54

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238418

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Th	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
B700741		12.30	0.210	2.82	5.1	60	2.7	13.0	480	24.6	0.697	
B700742		8.05	0.109	1.95	7.2	39	2.2	6.7	>10000	18.6	4.75	1.970
B700743		5.89	0.120	1.66	4.7	59	1.8	9.1	246	19.4	1.455	
B700744		4.54	0.073	1.15	18.9	29	1.3	5.5	1340	9.0	>10.0	2.67
B700745		9.23	0.194	2.53	3.0	82	21.0	6.5	284	10.6	0.329	
B700746		5.85	0.103	1.54	7.6	35	4.2	7.0	>10000	19.5	>10.0	1.285
B700747		6.27	0.167	2.31	3.1	79	368	6.3	700	10.1	4.16	
B700748		6.09	0.194	2.71	4.3	66	28.6	9.0	1710	9.8	>10.0	
B700749		10.15	0.292	1.53	8.0	100	5.1	14.4	102	14.6	0.043	
B700750		1.02	0.095	0.71	0.9	46	1.2	9.9	31	4.2	0.111	
B700751		2.24	0.201	1.51	2.4	57	2.6	12.7	1400	5.3	1.275	
B700752		3.99	0.175	1.19	1.8	60	3.9	7.3	>10000	4.1	>10.0	1.040
B700753		0.15	<0.005	0.03	0.3	1	<0.1	2.3	31	2.7	0.009	
B700754		2.20	0.389	2.01	1.0	153	4.0	13.4	1800	14.1	1.480	
B700755		4.31	0.434	2.35	2.0	138	2.7	19.3	1150	18.6	0.805	
B700756		10.90	0.196	2.30	4.2	52	2.7	9.9	>10000	21.9	0.996	
B700757		10.25	0.192	2.55	6.7	56	4.7	12.3	3060	24.3	0.334	
B700758		6.65	0.126	1.87	4.2	36	6.7	7.9	>10000	15.0	4.08	
B700759		6.29	0.129	1.90	14.5	43	5.1	8.5	>10000	14.6	4.68	
B700760		6.15	0.129	1.77	13.8	41	5.0	8.0	>10000	14.5	5.15	
B700761		8.88	0.167	2.01	4.5	58	2.1	10.7	960	17.7	0.161	
B700762		22.9	0.145	2.47	5.1	46	1.6	11.6	311	34.8	0.211	
B700763		14.70	0.105	1.54	6.5	43	2.0	10.8	8970	26.5	1.525	
B700764		12.10	0.217	3.46	4.6	59	7.5	9.7	8030	24.6	0.771	
B700765		12.30	0.228	3.46	5.0	64	6.9	11.3	5190	26.6	0.116	
B700766		12.20	0.229	1.77	4.3	69	3.0	17.3	6470	25.7	0.273	
B700767		13.00	0.220	2.71	6.6	62	5.0	11.7	2080	27.0	0.055	
B700768		5.33	0.173	2.23	2.5	80	9.6	6.6	217	10.8	1.570	
B700769		6.30	0.286	2.61	2.8	95	12.1	16.0	254	34.8	1.370	
B700770		5.28	0.228	2.44	1.8	113	6.7	15.0	142	21.9	0.541	
B700771		3.76	0.228	2.35	1.8	148	7.7	12.1	54	13.3	0.354	
B700772		6.64	0.258	2.11	4.2	90	26.6	14.5	196	10.7	0.052	
B700773		11.05	0.225	2.82	3.8	65	7.1	11.0	5000	24.0	0.398	
B700774		11.60	0.231	2.15	4.2	65	2.4	14.2	3290	24.6	0.083	
B700775		7.57	0.150	1.82	4.7	50	4.4	9.6	>10000	24.2	2.84	
B700776		12.15	0.208	2.54	3.9	61	3.6	12.3	>10000	22.4	1.745	
B700777		9.66	0.189	2.38	8.8	54	4.6	8.8	3670	25.6	0.132	
B700778		5.77	0.124	3.71	1.7	91	8.5	9.1	53	7.5	0.281	
B700779		3.51	0.164	1.57	1.1	136	17.3	6.4	153	8.1	0.119	
B700780		5.22	0.162	2.16	2.0	136	11.7	9.9	110	10.2	0.156	

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238418

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	Cu-OG62	ME-MS61	ME-OG62	Pb-OG62
	Zn-OG62			

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Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE WH20238419

Project: Klaza

P.O. No.: Batch 70

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 19-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 8-JAN-2021
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CERTIFICATE OF ANALYSIS WH20238419

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304077		7.05		0.73	8.75	42.3	420	1.37	1.79	1.98	1.23	38.4	16.4	14	10.30	133.0
C304078		4.45		1.44	8.65	53.8	220	1.66	2.58	1.78	2.97	40.2	13.7	14	8.98	72.6
C304079		5.07		0.71	8.16	66.9	460	1.83	1.00	2.67	1.82	48.6	13.4	14	15.60	175.5
C304080		4.30		1.22	8.71	72.1	280	1.88	1.90	1.59	6.67	59.9	16.8	14	10.40	120.5
C304081		0.26	1.390	94.0	4.60	4030	120	0.93	51.4	1.57	196.0	29.8	57.4	34	9.42	1300
C304082		7.04		2.65	6.65	235	90	1.07	9.84	0.80	7.95	37.1	15.6	14	7.71	82.9
C304083		6.04		1.18	6.68	153.5	710	1.25	3.21	1.93	2.84	37.6	16.8	10	16.10	54.5
C304084		4.03		1.32	6.62	165.5	80	1.14	4.79	1.18	2.32	53.1	26.3	14	12.00	78.4
C304085		5.31		1.50	7.85	80.8	130	1.46	3.23	0.53	4.42	44.5	18.1	13	6.00	55.4
C304086		4.02		3.71	6.43	393	40	0.78	16.20	0.27	1.08	29.9	24.0	14	5.12	65.5
C304087		0.26	1.425	93.9	4.69	4030	210	1.05	50.9	1.58	197.5	29.2	58.7	36	9.63	1290
C304088		5.55		0.78	7.54	86.3	120	1.19	2.02	1.47	1.27	51.4	13.7	12	11.10	81.9
C304089		5.91		0.40	7.46	39.4	320	1.49	0.83	2.44	0.18	52.9	13.3	13	14.50	176.0
C304090		6.66		0.14	7.19	148.5	1080	1.71	0.18	2.55	0.22	43.1	8.4	12	17.75	14.7
C304091		4.44		0.31	6.06	65.2	1020	1.60	0.87	2.88	0.14	27.0	7.8	10	13.65	21.5
C304092		1.78		4.13	6.80	149.5	130	1.34	12.35	2.40	4.76	31.4	11.9	13	18.30	516
C304093		5.19		0.02	0.09	1.2	30	0.05	1.12	33.8	0.02	0.98	0.6	2	0.08	2.9
C304094		7.51		0.44	7.40	95.3	1020	1.81	1.11	2.74	0.29	45.9	7.5	13	50.9	153.5
C304095		6.37		0.51	6.92	37.0	1050	1.35	0.86	2.79	0.11	29.2	6.5	13	23.1	154.5
C304096		4.30		0.29	7.00	28.2	1010	1.47	0.81	3.96	0.17	34.4	7.9	11	20.9	130.5
C304097		<0.02		0.31	7.06	28.5	1020	1.46	0.82	3.90	0.25	34.9	7.7	13	20.2	123.5
C304098		4.70		0.39	6.96	49.1	1070	1.34	0.88	4.05	0.26	33.4	8.8	11	18.30	139.0
C304099		14.66		0.19	6.89	170.5	680	1.62	0.11	2.86	0.12	39.2	5.1	11	20.1	10.9
C304100		16.30		0.12	7.26	64.0	980	1.57	0.10	2.41	0.07	41.5	3.2	10	15.90	5.6
C304101		14.92		0.15	6.78	70.1	1030	1.62	0.09	1.90	0.21	38.0	3.1	10	14.70	5.2
C304102		14.20		0.16	6.90	80.9	1070	1.61	0.15	1.77	0.11	39.0	3.2	9	12.20	6.0
C304103		15.85		0.11	7.03	97.7	1630	1.58	0.06	1.76	0.11	40.4	3.3	10	14.10	4.4
C304104		13.62		0.26	7.10	155.5	1250	1.72	0.10	2.08	0.10	42.4	3.5	9	15.35	5.9
C304105		12.89		0.11	7.01	71.0	1040	1.65	0.24	2.29	<0.02	42.0	4.1	10	12.25	4.5
C304106		10.45		0.09	7.19	144.5	1480	1.58	0.33	2.36	0.11	46.0	6.0	12	13.55	9.5
C304107		8.67		1.36	8.51	283	130	1.72	1.35	1.56	1.51	38.6	19.1	15	14.90	108.5
C304108		6.46		0.61	8.48	77.5	100	1.40	2.24	2.06	0.40	48.9	37.4	46	9.14	82.7
C304109		7.28		0.69	7.88	89.9	100	1.22	1.58	2.30	0.13	47.7	37.4	48	8.68	488
C304110		8.55		1.45	6.58	120.5	60	1.13	2.29	2.66	1.00	54.5	66.1	36	11.85	386
C304111		4.42		1.96	6.42	154.5	490	1.06	2.30	3.30	1.63	57.2	72.0	39	12.15	410
C304112		7.02		0.49	7.57	33.7	210	1.62	1.27	3.27	0.14	36.6	65.5	39	19.65	474
C304113		7.96		0.43	7.77	15.5	470	1.79	1.04	2.97	0.22	49.5	50.6	38	19.15	242
C304114		6.05		0.31	7.78	7.8	1010	1.36	0.62	3.52	0.31	36.7	9.9	17	8.08	189.5
C304115		8.24		0.29	7.89	6.7	1060	1.42	0.57	3.19	0.19	45.6	11.6	16	8.49	237
C304116		8.15		0.37	7.77	11.9	270	1.52	0.70	3.06	0.27	62.4	27.6	13	11.65	307

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304077		5.78	17.20	0.07	0.4	0.106	4.14	20.0	9.2	1.16	1040	4.68	0.06	4.3	6.4	910
C304078		6.32	16.60	0.08	0.4	0.108	4.19	20.6	3.4	1.07	1140	6.53	0.05	4.4	5.7	800
C304079		5.43	17.50	0.09	0.4	0.105	3.73	21.8	7.3	1.28	1400	3.35	0.06	4.8	6.3	790
C304080		5.99	18.90	0.10	0.5	0.257	4.20	30.2	4.1	1.02	1240	5.52	0.05	4.7	6.4	870
C304081		11.65	11.05	0.07	0.7	4.18	1.97	14.3	30.2	0.54	1830	17.25	0.15	4.2	14.8	370
C304082		10.15	14.30	0.08	0.3	0.472	3.25	19.2	6.7	0.65	784	4.53	0.04	3.0	6.2	500
C304083		6.75	12.80	0.07	0.4	0.127	3.06	20.8	10.6	1.03	2180	4.37	0.21	3.6	5.1	510
C304084		9.28	12.65	0.09	0.5	0.172	3.26	25.3	11.5	0.73	1200	14.05	0.09	3.1	6.9	410
C304085		6.84	14.25	0.07	0.4	0.345	3.97	22.4	4.8	0.61	648	4.99	0.04	3.8	5.1	390
C304086		15.75	14.60	0.13	0.3	0.180	3.31	12.9	4.9	0.49	483	5.94	0.05	2.4	9.0	260
C304087		11.80	11.10	0.05	0.7	4.20	1.98	14.7	31.6	0.55	1870	17.55	0.15	4.3	15.2	380
C304088		6.44	14.05	0.06	0.3	0.165	3.66	26.4	5.7	0.89	1270	3.98	0.05	3.6	4.6	510
C304089		4.42	14.45	0.08	0.5	0.075	2.57	26.4	17.8	0.62	822	7.96	0.76	5.4	5.6	520
C304090		2.29	16.85	0.07	3.7	0.028	3.29	21.7	12.2	0.82	895	1.50	0.05	8.0	5.8	630
C304091		2.10	15.45	0.07	2.3	0.024	3.06	12.7	12.1	0.41	761	5.58	0.04	7.1	5.1	440
C304092		5.70	15.85	0.05	1.2	0.209	2.82	15.4	18.4	0.59	497	80.7	0.04	5.6	8.3	670
C304093		0.16	0.26	<0.05	0.1	0.005	0.01	1.0	1.0	1.66	105	0.14	0.03	0.1	0.5	70
C304094		2.76	16.80	0.10	2.5	0.065	2.99	23.4	16.7	0.71	614	9.58	0.14	8.2	5.3	660
C304095		2.98	15.55	0.08	0.4	0.088	2.99	13.7	17.6	0.46	488	3.97	0.07	6.8	4.8	540
C304096		3.13	15.30	0.07	0.4	0.087	2.32	17.3	25.8	0.55	548	3.40	0.26	6.5	4.4	540
C304097		3.45	14.75	0.09	0.5	0.088	2.38	17.2	24.7	0.55	576	1.31	0.27	6.5	4.9	570
C304098		2.78	15.20	0.07	0.8	0.085	2.89	15.9	20.8	0.54	576	1.53	0.25	6.7	4.4	600
C304099		2.18	16.80	0.08	3.2	0.019	3.25	20.0	8.8	0.90	534	2.17	0.04	7.7	5.6	560
C304100		1.70	17.05	0.09	2.4	0.018	3.25	22.9	8.6	0.88	528	2.88	0.04	7.6	3.4	440
C304101		1.62	16.15	0.07	2.1	0.020	3.05	20.1	16.1	0.72	493	2.60	0.03	7.3	3.3	420
C304102		1.51	16.05	0.09	2.1	0.018	3.09	21.2	12.9	0.69	508	2.99	0.04	7.3	3.3	440
C304103		1.62	16.20	0.09	2.1	0.019	3.17	22.4	8.3	0.76	781	2.60	0.04	7.3	3.9	420
C304104		1.67	16.30	0.08	2.2	0.021	3.15	23.0	9.8	0.86	602	3.29	0.04	7.6	3.8	460
C304105		1.75	16.10	0.07	2.6	0.022	3.22	22.9	8.2	0.87	522	2.85	0.04	7.4	4.5	510
C304106		1.99	16.50	0.10	3.5	0.023	3.28	24.2	10.0	0.96	848	1.80	0.05	7.7	5.0	670
C304107		4.92	18.40	0.08	1.5	0.126	4.12	19.2	6.8	1.10	1720	4.18	0.04	5.7	6.3	580
C304108		7.15	16.00	0.09	0.6	0.109	4.40	25.8	8.5	1.33	671	17.05	0.06	2.1	8.9	1960
C304109		7.66	14.55	0.08	0.6	0.136	3.72	26.6	11.6	1.30	787	20.2	0.06	2.5	9.6	1830
C304110		8.53	13.50	0.07	0.5	0.109	3.30	33.3	6.8	1.14	1740	8.17	0.04	2.5	10.5	1600
C304111		9.77	12.60	0.07	0.6	0.113	3.06	35.3	7.4	1.18	1840	8.80	0.04	2.8	11.7	1680
C304112		6.35	13.60	0.07	0.6	0.092	3.20	20.6	17.2	1.37	617	24.1	0.06	3.2	13.3	1670
C304113		6.43	14.85	0.08	0.7	0.085	2.79	28.9	34.1	2.54	509	12.95	0.46	3.6	12.0	1650
C304114		3.96	15.80	0.07	0.4	0.064	1.76	20.0	20.1	1.42	304	18.50	1.82	5.9	5.8	720
C304115		3.82	14.95	0.07	0.4	0.050	2.27	25.4	21.0	1.42	205	28.4	1.70	5.5	4.6	690
C304116		4.30	15.25	0.10	0.4	0.069	2.95	34.8	27.2	1.44	221	8.96	1.59	5.0	5.3	740

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238419

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304077		92.9	176.0	<0.002	5.22	6.34	9.0	4	20.3	51.4	0.28	0.31	7.41	0.239	3.81	1.9
C304078		375	175.0	0.003	6.38	8.84	16.9	4	16.6	46.7	0.31	0.46	8.32	0.250	4.07	2.1
C304079		174.5	145.0	0.002	4.71	13.80	19.7	3	7.9	76.7	0.29	0.16	7.19	0.239	4.66	2.8
C304080		678	180.0	0.002	5.66	11.55	21.1	3	15.9	45.7	0.30	0.28	7.30	0.250	4.31	2.5
C304081		8590	106.0	0.002	>10.0	234	6.5	2	10.8	91.4	0.33	1.90	7.08	0.146	1.82	4.4
C304082		278	142.0	0.002	>10.0	23.2	10.1	14	18.9	26.2	0.24	3.25	6.82	0.153	3.10	2.0
C304083		200	150.0	<0.002	6.47	15.80	10.1	8	9.2	96.5	0.28	1.21	7.72	0.167	4.06	2.3
C304084		128.0	145.5	0.006	8.63	14.95	9.3	8	11.6	68.5	0.26	2.10	7.58	0.140	3.70	2.6
C304085		260	177.5	0.004	7.06	15.60	10.3	4	19.7	20.3	0.30	0.87	7.71	0.173	3.48	1.6
C304086		148.0	135.5	0.005	>10.0	22.6	9.6	36	27.4	17.3	0.18	5.42	5.13	0.119	2.23	1.3
C304087		8610	106.5	0.003	>10.0	240	6.5	2	10.9	92.0	0.34	2.01	6.87	0.145	1.77	4.4
C304088		110.5	181.0	0.003	5.78	6.17	10.5	3	15.9	49.2	0.30	0.38	8.45	0.175	3.73	1.7
C304089		16.9	114.5	0.002	2.57	6.29	9.0	1	6.0	269	0.43	0.10	8.53	0.226	2.94	2.7
C304090		12.8	159.0	<0.002	0.88	12.75	5.5	<1	1.9	127.0	0.63	<0.05	10.40	0.233	3.62	5.9
C304091		20.3	132.5	<0.002	0.73	6.21	3.2	<1	1.7	145.5	0.65	0.18	8.53	0.161	3.30	3.4
C304092		262	128.5	0.013	5.68	34.3	8.4	5	12.9	150.0	0.43	2.10	7.69	0.209	2.43	3.4
C304093		0.8	0.7	<0.002	0.02	0.16	0.2	1	0.2	82.0	<0.05	<0.05	0.09	0.006	0.02	0.2
C304094		23.0	143.0	0.002	1.78	13.95	7.4	1	3.7	156.5	0.67	0.15	10.90	0.244	3.44	15.0
C304095		15.5	105.0	<0.002	1.76	5.82	10.3	2	2.9	140.5	0.55	0.28	8.90	0.264	3.02	2.9
C304096		15.4	96.2	0.002	1.61	4.80	10.2	2	4.3	243	0.51	0.15	9.22	0.255	2.58	2.7
C304097		18.0	93.3	<0.002	1.61	4.75	9.9	1	3.3	245	0.51	0.15	9.25	0.264	2.55	2.6
C304098		19.0	114.0	<0.002	1.97	5.40	10.6	1	3.6	234	0.51	0.18	8.59	0.278	3.14	2.2
C304099		11.0	144.5	<0.002	0.75	6.23	4.7	<1	1.8	181.0	0.68	0.16	10.35	0.201	3.57	5.1
C304100		17.6	168.0	<0.002	0.36	5.09	3.9	<1	1.0	108.5	0.70	<0.05	11.95	0.162	3.61	3.8
C304101		29.9	147.0	<0.002	0.32	6.56	3.4	<1	1.1	229	0.66	<0.05	10.85	0.154	3.37	3.8
C304102		19.4	153.5	<0.002	0.42	7.05	3.6	<1	1.1	98.0	0.65	0.13	11.30	0.156	3.49	4.6
C304103		12.6	186.0	<0.002	0.65	4.65	3.5	<1	1.0	111.5	0.67	<0.05	11.65	0.153	3.91	4.1
C304104		35.6	183.0	<0.002	0.64	7.84	3.7	<1	1.1	173.0	0.65	<0.05	11.75	0.166	3.93	4.6
C304105		11.0	174.0	<0.002	0.47	5.37	4.2	<1	1.2	116.5	0.64	<0.05	11.20	0.179	3.86	4.3
C304106		12.7	193.5	<0.002	0.88	10.60	6.0	<1	1.7	164.0	0.63	<0.05	10.70	0.233	4.33	6.8
C304107		122.0	253	0.002	4.58	30.6	11.9	2	7.4	111.0	0.46	0.49	9.32	0.239	5.02	3.5
C304108		36.0	185.5	0.003	7.02	15.95	25.5	4	15.0	90.9	0.15	0.95	5.71	0.286	3.67	2.6
C304109		15.3	162.0	0.005	6.63	29.2	26.6	6	10.5	80.8	0.19	0.43	6.22	0.310	3.31	2.9
C304110		160.0	151.0	0.003	8.62	33.5	23.9	6	10.8	75.9	0.21	0.68	6.86	0.287	3.77	2.8
C304111		180.0	147.0	0.004	9.63	57.0	24.6	6	10.7	86.6	0.24	0.77	7.34	0.301	3.35	3.0
C304112		14.6	172.0	0.006	5.77	9.03	19.6	6	8.2	140.0	0.28	0.29	7.04	0.326	3.97	3.2
C304113		20.5	128.5	0.004	4.49	3.84	20.9	4	7.4	238	0.33	0.27	7.74	0.359	3.31	4.6
C304114		23.6	62.6	0.002	1.78	2.07	11.9	2	3.4	1185	0.46	0.10	8.84	0.278	1.93	1.9
C304115		16.4	79.1	0.003	2.08	2.36	11.6	1	3.7	419	0.47	0.10	9.35	0.260	2.00	2.6
C304116		18.8	98.9	0.005	3.37	2.65	12.9	4	3.0	332	0.41	0.10	8.28	0.224	2.44	2.4

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20238419

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304077		106	18.6	11.3	180	8.4	0.089
C304078		108	15.1	10.3	389	8.3	0.075
C304079		99	6.8	12.7	262	9.1	0.101
C304080		117	11.5	11.6	646	8.7	0.076
C304081		48	4.4	9.1	>10000	21.8	2.91
C304082		78	12.1	8.3	712	6.4	0.273
C304083		80	9.1	10.9	286	8.0	0.194
C304084		70	8.9	14.5	263	10.7	0.236
C304085		90	13.2	10.9	432	8.2	0.086
C304086		71	16.5	10.1	119	7.0	0.492
C304087		48	5.3	9.3	>10000	21.1	2.85
C304088		78	10.3	13.9	215	7.3	0.141
C304089		83	6.5	13.0	116	12.9	0.093
C304090		51	6.4	11.6	73	135.5	0.069
C304091		31	6.7	8.0	87	69.7	0.067
C304092		76	11.2	8.1	460	40.2	0.188
C304093		1	0.1	2.0	4	2.1	0.005
C304094		63	8.4	11.0	58	88.3	0.113
C304095		89	7.4	9.3	63	9.4	0.079
C304096		89	5.4	11.0	69	9.8	0.071
C304097		91	5.4	10.7	73	10.4	0.080
C304098		96	5.7	10.3	77	22.6	0.081
C304099		41	8.2	9.4	57	107.5	0.107
C304100		30	6.9	9.3	37	71.5	0.088
C304101		28	6.1	8.1	53	66.9	0.063
C304102		29	6.2	8.3	45	64.3	0.064
C304103		28	5.7	8.8	37	65.3	0.082
C304104		30	7.0	8.9	44	72.1	0.104
C304105		35	7.1	9.1	37	89.4	0.053
C304106		52	3.6	10.9	43	136.5	0.068
C304107		98	7.6	11.7	206	54.4	0.297
C304108		207	18.1	12.9	71	12.5	0.098
C304109		239	14.3	14.2	79	13.0	0.095
C304110		223	16.4	12.9	101	11.4	0.121
C304111		229	17.4	14.9	163	12.9	0.120
C304112		176	7.4	15.1	77	13.3	0.081
C304113		185	7.3	14.0	87	15.3	0.078
C304114		109	4.1	11.5	72	5.9	0.061
C304115		108	5.9	10.4	50	7.1	0.070
C304116		114	5.4	11.8	45	7.6	0.062

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238419

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE WH20238431

Project: Klaza

P.O. No.: Batch 67

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238431

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304037		1.83		51.6	6.76	851	30	0.99	121.0	0.37	1.02	22.9	9.0	13	5.70	1520
C304038		4.80		1.56	7.91	50.0	760	1.76	7.56	2.78	0.41	56.1	9.8	21	10.20	124.0
C304039		2.23		2.09	8.43	154.0	370	1.20	7.55	1.37	0.45	47.1	7.4	26	11.70	116.5
C304040		5.29		0.51	8.29	19.9	690	1.30	2.83	4.84	0.30	37.3	17.8	19	19.75	58.8
C304041		5.06		0.66	8.38	23.8	790	1.37	3.03	5.59	0.87	42.5	13.1	16	28.7	61.7
C304042		0.26	1.475	96.2	4.83	4140	530	0.91	53.2	1.60	203	30.9	59.2	37	9.88	1310
C304043		3.74		0.22	8.06	10.1	780	1.52	1.32	3.75	0.24	43.5	12.7	15	19.45	38.0
C304044		2.21		2.61	7.27	23.5	1000	1.33	89.2	6.11	0.62	68.6	12.1	11	25.2	145.5
C304045		3.97		1.97	8.14	170.5	670	1.34	31.6	1.48	1.81	44.3	7.4	13	11.10	118.0
C304046		1.86		6.56	6.21	2360	190	1.04	11.55	4.29	18.80	34.7	6.1	9	12.70	205
C304047		5.29		13.75	6.99	423	770	1.15	226	3.32	10.05	45.0	8.3	11	17.55	223
C304048		0.26	1.475	94.6	4.73	4050	490	0.89	52.4	1.57	197.5	29.3	58.5	36	9.62	1270
C304049		4.74		0.47	7.36	19.9	910	1.06	4.76	2.88	0.35	49.9	11.7	11	16.75	12.3
C304050		4.17		0.44	6.54	15.6	940	1.09	3.61	2.91	0.29	43.4	10.0	11	16.35	19.8
C304051		4.00		1.15	8.13	65.1	770	1.71	8.84	3.19	0.87	42.1	10.5	14	31.0	65.6
C304052		5.62		1.17	7.60	85.6	1450	1.58	4.90	4.16	3.36	34.2	17.0	18	25.2	42.0
C304053		3.62		1.04	7.86	71.4	170	1.67	3.23	4.79	2.69	30.4	33.3	18	19.05	13.5
C304054		4.26		1.55	7.45	58.2	160	1.41	5.12	5.44	2.42	29.9	32.4	18	17.35	65.1
C304055		4.45		1.14	8.41	22.6	1040	1.72	2.01	4.15	0.53	36.0	11.6	17	25.2	53.1
C304056		4.80		0.88	8.03	50.6	1240	1.52	3.35	3.94	0.65	39.4	12.9	14	23.7	76.6
C304057		3.38		0.35	8.42	44.8	1210	1.61	2.89	4.46	0.49	39.5	14.2	15	26.8	65.8
C304058		4.97		0.44	7.93	56.9	850	1.74	7.23	4.37	0.86	35.2	10.4	14	12.60	88.6
C304059		1.78		3.43	6.75	156.5	220	1.50	71.8	3.92	8.60	37.6	13.3	10	28.7	483
C304060		5.13		0.02	0.32	1.0	30	0.18	0.29	32.8	0.03	1.50	0.6	2	0.33	2.8
C304061		5.03		1.01	7.74	58.4	660	1.75	12.35	3.80	3.18	35.4	10.4	13	23.7	148.5
C304062		1.74		1.35	7.59	42.0	480	1.70	45.1	3.98	2.94	44.2	9.2	14	18.75	246
C304063		<0.02		1.28	7.98	36.5	520	1.70	34.1	4.05	3.03	44.9	7.9	14	18.25	256
C304064		3.69		0.97	7.86	51.0	640	1.34	17.65	5.48	1.64	43.8	8.4	15	18.20	119.5
C304065		4.33		0.57	8.23	48.7	1090	1.68	3.79	4.23	0.44	44.1	11.7	16	17.25	76.5
C304066		3.94		1.39	8.64	49.9	400	1.75	1.54	1.69	7.47	60.8	13.5	11	26.9	225
C304067		5.33		0.90	7.85	23.8	310	1.64	0.98	2.76	5.27	46.7	22.1	13	11.30	255
C304068		5.68		1.04	7.32	35.7	230	1.52	1.87	2.02	6.53	24.1	21.7	15	12.05	208
C304069		5.21		0.44	7.42	6.1	300	1.61	0.58	2.94	4.42	40.6	24.4	12	11.55	212
C304070		5.33		0.80	7.42	19.4	200	1.61	1.67	3.08	1.69	39.1	21.4	15	12.60	177.5
C304071		3.71		0.64	6.84	37.1	80	1.39	0.89	2.78	1.45	30.4	22.1	11	9.77	193.5
C304072		1.63		0.65	7.07	36.4	190	1.43	0.85	2.72	1.34	37.4	17.2	15	10.35	184.0
C304073		2.65		2.03	7.19	77.6	300	1.19	3.33	1.57	2.16	41.1	14.1	11	8.42	173.0
C304074		8.50		0.47	7.25	44.5	370	1.42	0.67	2.96	1.39	35.1	20.1	14	12.45	211
C304075		10.66		4.85	8.05	180.5	140	1.41	6.29	1.29	5.74	39.8	16.4	11	16.70	405
C304076		6.71		0.59	8.63	97.8	570	1.87	1.23	2.87	1.28	35.7	17.3	15	15.60	263

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238431

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304037		15.80	17.05	0.08	0.5	0.391	3.32	9.6	5.4	0.38	160	1.36	0.07	2.6	4.1	590
C304038		4.39	17.50	0.10	2.4	0.038	2.79	29.5	26.4	1.24	480	2.73	0.06	6.2	14.7	840
C304039		7.44	17.90	0.09	0.6	0.124	3.45	22.2	18.8	1.51	552	0.53	0.06	4.8	6.8	1520
C304040		6.23	17.95	0.09	0.6	0.123	1.90	17.6	28.3	1.76	851	0.52	1.63	7.6	9.2	1780
C304041		4.33	16.15	0.11	0.4	0.105	1.38	23.7	41.5	1.93	1140	0.51	0.57	5.2	7.0	920
C304042		11.95	10.75	<0.05	0.7	4.46	2.04	16.9	28.1	0.56	1960	16.40	0.16	4.1	15.1	400
C304043		4.24	16.55	0.08	0.5	0.056	1.22	22.9	28.5	1.19	530	0.98	1.47	7.0	5.8	650
C304044		4.34	14.75	0.09	0.4	0.073	1.59	38.5	33.7	1.68	1540	0.46	0.19	5.3	5.3	590
C304045		4.56	17.20	0.10	0.4	0.131	2.45	23.7	30.8	0.74	1280	0.25	0.06	5.8	5.5	670
C304046		4.45	13.75	0.08	0.4	0.218	2.66	18.2	17.1	1.48	7560	4.24	0.03	5.0	4.2	520
C304047		3.58	13.70	0.08	0.9	0.230	2.34	24.9	54.6	1.18	1820	3.63	0.07	6.5	5.5	680
C304048		11.70	10.40	<0.05	0.6	4.30	1.99	15.8	28.1	0.54	1920	15.75	0.15	3.9	14.5	380
C304049		3.60	14.10	0.05	0.5	0.051	1.73	27.5	31.3	1.24	723	1.97	0.38	6.0	5.1	500
C304050		3.45	12.95	0.10	0.4	0.058	1.44	24.8	33.4	1.08	532	2.51	0.59	5.5	5.0	440
C304051		3.96	17.05	0.08	0.5	0.095	1.95	21.3	45.9	1.29	832	1.64	0.34	6.7	6.5	720
C304052		4.94	15.40	0.10	0.3	0.091	2.36	17.3	81.4	1.72	2080	3.01	0.07	4.1	9.6	610
C304053		8.28	15.75	0.11	0.2	0.255	2.54	14.4	119.0	2.12	2890	1.56	0.06	2.9	12.5	550
C304054		8.17	17.75	0.10	0.3	0.150	2.05	13.5	30.1	1.96	2380	1.03	0.85	3.6	13.0	800
C304055		4.85	16.70	0.08	0.5	0.054	1.63	18.1	43.4	1.37	1110	0.61	0.73	5.7	8.0	1050
C304056		4.40	16.60	0.09	0.6	0.079	2.13	21.5	36.4	1.28	1060	1.39	0.09	6.6	6.5	720
C304057		4.87	17.25	0.10	0.5	0.062	1.91	21.1	30.4	1.43	885	0.58	0.67	5.7	6.3	750
C304058		4.09	17.10	0.09	0.6	0.074	2.14	17.0	29.7	1.35	739	0.47	0.90	5.8	5.5	710
C304059		7.59	13.90	0.09	0.4	0.092	2.27	19.6	27.2	1.22	1060	0.49	0.05	4.2	6.7	550
C304060		0.13	0.85	0.08	0.1	0.007	0.12	1.4	1.7	1.57	104	0.05	0.09	0.5	0.5	70
C304061		4.21	15.85	0.11	0.5	0.056	2.10	17.9	34.8	1.26	748	0.55	0.35	5.3	5.1	660
C304062		5.03	16.45	0.11	0.5	0.045	2.48	23.1	26.5	1.48	892	0.94	0.26	5.6	3.8	710
C304063		4.98	16.60	0.13	0.5	0.051	2.59	22.8	26.5	1.55	918	0.81	0.27	5.5	3.7	740
C304064		3.86	15.45	0.10	0.5	0.084	1.49	23.4	26.1	1.47	807	0.37	0.78	5.4	5.1	720
C304065		3.97	16.80	0.08	0.5	0.064	1.80	22.6	31.0	1.35	687	0.33	1.04	7.2	7.5	720
C304066		4.65	16.10	0.12	0.4	0.143	3.68	33.0	11.7	1.06	1090	3.57	0.36	5.8	5.5	800
C304067		5.18	15.85	0.12	0.5	0.106	2.83	24.1	19.3	1.34	1610	6.56	1.17	5.0	7.9	790
C304068		6.20	14.15	0.10	0.5	0.126	3.72	10.9	8.5	0.83	1830	4.15	0.24	3.8	7.9	610
C304069		4.56	14.15	0.10	0.3	0.068	2.21	21.3	17.5	1.11	1900	2.79	1.10	4.4	7.0	610
C304070		5.13	14.10	0.10	0.3	0.128	2.53	21.4	14.0	1.00	1460	5.21	0.87	4.6	6.8	560
C304071		5.98	13.20	0.11	0.3	0.092	2.96	14.0	13.3	0.71	1750	3.36	0.39	4.3	5.9	540
C304072		5.69	12.50	0.11	0.3	0.090	2.85	19.6	11.9	0.73	1520	3.42	0.38	4.2	6.5	520
C304073		7.21	13.35	0.11	0.3	0.142	3.46	22.0	4.7	0.85	1890	7.34	0.05	3.6	4.9	490
C304074		4.46	13.95	0.09	0.3	0.079	2.62	17.3	16.8	0.68	1920	3.05	0.24	4.7	7.1	520
C304075		6.38	16.50	0.11	0.3	0.197	3.78	21.8	8.7	0.91	1540	5.28	0.06	3.0	6.0	590
C304076		5.24	17.10	0.09	0.4	0.093	3.40	17.8	16.1	1.15	1370	2.61	0.05	4.3	6.9	780

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238431

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304037		191.5	153.0	<0.002	>10.0	29.7	8.2	4	11.4	20.4	0.19	22.2	4.06	0.143	2.14	1.5
C304038		19.4	128.5	<0.002	2.41	37.8	9.1	1	4.1	158.0	0.43	0.66	9.21	0.299	2.36	4.6
C304039		51.2	174.0	<0.002	5.98	7.19	20.1	3	8.7	74.6	0.34	1.56	7.42	0.326	2.58	2.6
C304040		22.5	77.9	<0.002	1.05	7.53	19.9	1	4.0	554	0.50	0.27	5.98	0.512	2.02	1.9
C304041		44.3	76.3	<0.002	0.62	9.45	15.2	<1	3.2	383	0.40	0.17	6.13	0.350	1.25	6.1
C304042		9550	113.5	0.002	>10.0	243	6.4	2	9.9	95.0	0.33	1.99	7.17	0.150	1.82	4.5
C304043		30.7	46.1	<0.002	0.47	3.92	14.6	1	2.3	420	0.55	0.08	6.98	0.365	1.02	2.0
C304044		77.8	79.6	<0.002	1.21	12.10	11.9	<1	5.2	358	0.42	0.71	7.06	0.290	1.30	9.2
C304045		217	127.5	<0.002	1.92	24.9	15.0	<1	7.0	101.0	0.43	0.55	6.78	0.320	2.60	2.7
C304046		663	172.0	<0.002	3.54	63.4	10.6	1	7.6	278	0.42	1.22	7.21	0.244	3.13	2.6
C304047		585	131.5	<0.002	1.78	64.9	9.5	1	4.9	276	0.48	1.78	8.51	0.286	2.32	2.9
C304048		9310	110.0	0.002	>10.0	236	6.2	2	9.6	88.8	0.31	2.03	6.80	0.145	1.79	4.3
C304049		30.6	89.7	<0.002	0.74	6.08	11.3	<1	2.8	209	0.52	0.19	9.18	0.281	1.28	2.6
C304050		22.3	81.5	<0.002	0.60	5.69	12.2	<1	2.2	254	0.41	0.23	7.13	0.272	1.18	2.2
C304051		38.6	79.7	<0.002	1.13	16.70	15.7	1	5.2	246	0.46	0.39	6.67	0.373	1.75	6.8
C304052		85.6	134.5	0.007	2.02	18.90	20.9	1	5.2	291	0.26	0.73	4.18	0.389	2.68	2.7
C304053		134.0	153.0	0.016	5.03	7.35	25.5	1	10.2	359	0.17	0.58	2.02	0.428	3.10	1.7
C304054		132.0	90.4	0.006	4.78	6.31	23.8	1	7.9	359	0.23	0.63	2.04	0.435	2.32	1.9
C304055		31.5	57.1	0.002	0.52	10.60	13.1	<1	2.3	383	0.42	0.13	6.56	0.373	1.52	2.8
C304056		33.0	78.0	<0.002	1.21	22.5	16.2	<1	3.4	249	0.45	0.28	7.81	0.324	1.74	3.9
C304057		24.0	75.9	0.002	1.17	15.10	13.3	1	3.0	412	0.46	0.57	7.40	0.354	1.56	2.9
C304058		31.7	86.7	<0.002	1.38	5.81	13.2	<1	4.5	368	0.45	0.57	7.58	0.324	2.09	3.0
C304059		160.5	126.0	<0.002	6.21	9.15	9.7	1	4.2	211	0.35	4.62	7.22	0.246	2.18	4.7
C304060		1.2	4.5	<0.002	0.01	0.15	0.4	1	0.2	84.3	0.05	<0.05	0.28	0.007	0.05	0.3
C304061		86.3	80.8	<0.002	1.91	9.52	11.4	1	4.2	272	0.41	2.00	6.36	0.312	2.18	3.1
C304062		90.6	139.5	<0.002	2.48	16.20	16.2	1	4.5	271	0.37	19.90	7.55	0.309	2.65	2.9
C304063		88.6	146.5	<0.002	2.26	14.85	17.1	<1	4.6	284	0.36	15.80	7.65	0.319	2.67	2.9
C304064		71.4	73.1	<0.002	1.18	5.69	15.3	<1	4.0	442	0.37	1.28	7.11	0.311	1.40	2.9
C304065		28.3	63.4	0.002	0.97	4.71	15.9	<1	3.7	428	0.53	0.83	7.46	0.352	1.52	2.8
C304066		505	185.5	0.002	4.14	11.55	16.9	2	8.5	103.0	0.37	0.28	9.33	0.295	3.79	2.5
C304067		101.0	109.0	0.004	4.23	14.45	18.7	2	6.3	257	0.35	0.25	7.93	0.260	2.77	2.7
C304068		126.5	142.0	0.003	5.33	5.77	13.5	3	9.1	92.9	0.33	0.57	6.72	0.221	3.33	2.4
C304069		31.3	92.0	<0.002	3.24	2.46	10.6	2	3.3	249	0.34	0.07	6.12	0.237	2.37	3.1
C304070		56.7	127.0	0.002	3.58	2.83	10.8	2	3.8	226	0.34	0.20	7.36	0.231	2.97	2.5
C304071		40.0	120.0	<0.002	5.58	3.29	9.4	4	6.2	149.0	0.30	0.27	5.66	0.209	2.81	2.1
C304072		35.0	136.0	<0.002	4.81	3.05	9.3	3	6.1	151.5	0.27	0.38	6.56	0.207	2.79	2.2
C304073		195.5	163.5	0.002	7.15	11.15	10.1	5	9.6	43.4	0.27	0.63	7.64	0.180	3.15	1.7
C304074		30.2	116.5	<0.002	3.34	14.85	9.7	2	3.7	126.0	0.37	0.10	7.80	0.228	3.43	2.3
C304075		544	178.5	<0.002	6.57	169.0	8.3	4	22.2	46.1	0.21	1.06	6.66	0.178	3.19	2.3
C304076		83.7	149.5	0.003	4.42	22.4	8.5	3	5.6	75.8	0.31	0.29	6.49	0.278	4.51	2.0

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Project: Klaza

CERTIFICATE OF ANALYSIS WH20238431

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304037		86	8.5	6.1	64	13.8	2.56
C304038		80	14.6	13.5	56	89.7	0.041
C304039		160	12.6	14.0	72	14.6	0.088
C304040		180	7.5	16.2	94	16.4	0.016
C304041		136	8.3	14.8	107	10.9	0.013
C304042		49	5.0	10.4	>10000	23.0	2.83
C304043		117	3.2	12.8	75	10.6	0.008
C304044		108	8.5	19.2	91	9.6	0.037
C304045		119	5.9	14.3	193	9.4	0.023
C304046		92	10.5	12.1	1790	10.3	0.414
C304047		86	7.6	12.8	857	31.3	0.074
C304048		49	4.3	9.8	>10000	20.8	2.89
C304049		95	3.7	14.7	76	10.9	0.039
C304050		101	4.3	12.1	56	8.3	0.007
C304051		122	9.1	12.1	117	10.7	0.020
C304052		161	13.4	12.4	279	7.3	0.016
C304053		187	15.5	16.4	286	3.6	0.031
C304054		205	15.8	18.6	246	5.9	0.044
C304055		127	8.6	13.9	96	12.2	0.023
C304056		121	7.4	14.4	82	13.0	0.028
C304057		127	5.4	12.7	74	11.2	0.024
C304058		118	5.5	12.5	89	12.2	0.016
C304059		88	10.0	11.6	610	8.9	0.074
C304060		2	0.1	3.0	5	2.5	<0.005
C304061		110	8.7	11.4	248	9.4	0.026
C304062		107	11.0	15.6	234	10.5	0.019
C304063		112	11.0	16.4	250	10.0	0.014
C304064		112	4.7	17.5	154	10.5	0.006
C304065		123	7.9	15.1	75	11.0	0.007
C304066		136	10.9	14.6	474	7.6	0.095
C304067		116	6.3	22.4	504	8.4	0.122
C304068		100	9.1	15.2	346	7.3	0.138
C304069		93	4.9	21.7	464	5.5	0.055
C304070		92	5.1	18.0	279	6.1	0.067
C304071		85	7.5	17.8	359	5.6	0.082
C304072		82	7.2	18.1	301	5.3	0.099
C304073		82	9.6	11.8	242	5.3	0.122
C304074		87	5.5	18.7	373	5.7	0.079
C304075		93	16.9	8.7	451	5.8	0.361
C304076		106	8.0	11.7	209	7.6	0.132

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238431

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE WH20238433

Project: Klaza

P.O. No.: Batch 68

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238433

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304521		4.13		0.20	7.56	15.7	2150	1.58	0.41	2.71	0.37	41.1	8.5	11	18.25	10.8
C304522		4.92		0.12	7.01	11.2	2000	1.62	0.42	3.00	0.18	41.2	8.3	10	14.10	4.8
C304523		4.51		0.13	7.15	5.7	2080	1.80	0.18	3.10	0.19	40.5	6.5	11	13.70	6.0
C304524		5.07		0.13	6.69	7.0	1710	1.73	0.19	6.12	0.52	57.2	7.6	8	13.90	7.5
C304525		0.26	1.475	93.9	4.61	4140	1220	0.98	47.1	1.57	199.5	29.7	57.0	37	8.79	1235
C304526		3.90		0.14	6.19	6.5	1460	1.28	0.21	9.59	0.26	63.7	6.0	6	13.20	7.3
C304527		5.31		0.07	6.51	5.8	1490	1.21	0.11	4.74	0.36	54.9	5.9	8	14.75	5.9
C304528		4.80		0.08	7.18	5.3	2260	1.50	0.29	2.50	0.13	40.1	6.8	10	14.30	4.9
C304529		3.63		0.05	7.56	4.0	2310	1.78	0.18	2.50	0.13	40.7	6.4	10	16.70	4.4
C304530		4.51		0.07	7.10	3.5	2040	1.60	0.10	3.15	0.13	44.9	6.4	9	13.75	8.8
C304531		4.42		0.07	7.95	7.0	2510	1.67	0.15	2.77	0.15	55.3	8.1	11	10.15	12.2
C304532		0.26		8.48	6.49	1910	320	1.41	4.82	1.72	32.9	42.2	9.7	26	16.00	189.0
C304533		4.64		0.43	7.82	62.4	2140	1.54	0.13	2.58	0.58	44.1	6.8	12	14.05	6.4
C304534		1.89		2.08	7.93	325	1690	1.78	0.19	2.19	3.19	56.4	4.6	10	20.6	4.3
C304535		4.78		0.15	7.76	10.1	930	1.79	0.30	2.64	0.29	40.9	6.6	10	17.20	7.8
C304536		2.95		0.96	6.53	67.6	880	1.81	1.93	5.18	0.75	84.9	37.8	6	34.9	15.8
C304537		5.03		0.15	8.28	11.7	1440	1.73	0.41	2.55	0.39	57.6	10.0	10	18.90	17.2
C304538		3.27		0.54	7.58	22.9	1030	1.59	0.49	2.80	1.41	41.9	8.1	10	16.90	5.9
C304539		<0.02		0.52	7.61	23.1	990	1.64	0.51	2.76	1.31	43.9	8.2	10	18.20	9.3
C304540		1.63		0.59	7.52	26.3	570	1.40	0.53	3.14	0.45	47.0	12.4	10	15.15	2.6
C304541		4.81		0.34	7.14	26.1	1810	1.39	0.46	3.50	0.18	41.6	11.8	10	18.50	3.8
C304542		4.87		0.04	7.90	7.3	2370	1.43	0.08	2.19	0.11	46.5	6.8	10	10.20	3.7
C304543		1.74		0.84	7.74	39.6	1850	1.66	0.09	3.12	1.81	45.1	6.8	12	17.55	5.0
C304544		0.80		2.06	7.59	35.6	1950	1.76	0.10	3.06	4.74	41.8	6.4	12	17.35	10.6
C304545		5.19		0.05	7.76	9.1	2470	1.62	0.07	2.75	0.09	46.8	7.4	13	8.70	4.4
C304546		3.52		0.05	7.97	8.1	2400	1.63	0.05	2.83	0.09	49.2	7.6	14	6.89	5.0
C304547		3.43		0.06	7.98	8.7	2470	1.70	0.06	2.85	0.08	48.6	8.1	13	9.01	8.2
C304548		5.28		0.11	7.86	9.9	2280	1.75	0.12	3.08	0.10	48.2	7.9	15	10.25	8.0
C304549		1.97		0.39	7.25	13.7	1160	1.40	1.14	2.71	0.16	42.2	7.7	10	12.35	4.8
C304550		1.97		0.42	6.97	44.3	2060	1.64	0.45	3.61	0.53	43.2	5.9	11	22.2	4.6
C304551		5.52		0.16	7.59	22.6	2380	1.86	0.29	3.18	0.10	41.8	7.9	12	16.55	4.2
C304552		5.64		0.14	7.93	19.7	2820	1.68	0.38	2.99	0.29	44.9	8.5	13	15.50	8.5
C304553		2.07		10.25	6.85	80.9	1450	1.60	0.36	3.69	3.08	40.9	5.9	10	19.70	10.5
C304554		5.46		0.02	0.21	0.8	40	0.13	0.01	35.8	0.02	1.09	0.5	2	0.07	0.9
C304555		5.61		0.16	8.00	22.7	2320	1.50	0.25	3.11	0.38	51.1	7.2	13	12.20	14.9
C304556		5.20		0.08	7.77	7.2	2880	1.51	0.16	2.82	0.09	52.3	7.7	13	8.31	5.6
C304557		5.33		0.21	7.59	20.5	2290	1.62	0.26	3.12	2.53	47.3	7.8	12	19.75	4.8
C304558		2.44		0.24	7.46	26.5	2320	1.60	0.11	3.27	0.37	42.3	7.8	12	25.1	3.6
C304559		2.06		0.89	7.60	178.0	1470	1.67	0.55	2.34	7.20	47.7	6.9	10	27.4	9.7
C304560		2.67		0.20	7.13	46.4	2640	1.51	0.10	4.70	0.27	50.0	6.8	11	24.9	3.3

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238433

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304521		3.71	13.95	0.09	1.0	0.065	2.72	20.1	29.4	0.82	722	0.58	0.34	7.2	3.1	650
C304522		3.14	13.75	0.11	1.0	0.061	2.73	21.1	26.4	0.80	835	0.39	0.93	7.1	2.7	610
C304523		3.10	14.50	0.09	1.0	0.045	2.63	20.2	31.2	0.76	732	0.46	1.32	7.5	2.9	640
C304524		3.18	14.20	0.12	1.0	0.047	2.25	31.4	30.6	0.87	2000	0.40	0.97	7.4	2.8	540
C304525		11.40	9.96	0.08	0.7	4.10	1.93	15.1	28.0	0.54	1860	15.10	0.15	3.7	14.3	370
C304526		2.34	11.75	0.12	1.0	0.030	2.00	36.4	28.7	0.77	3220	0.45	0.25	6.4	2.2	510
C304527		2.49	12.55	0.11	1.0	0.037	2.17	31.4	25.4	1.14	1120	0.50	0.21	6.3	2.3	500
C304528		3.09	13.10	0.11	1.0	0.033	2.15	21.4	25.9	1.07	636	0.45	1.17	6.8	2.9	580
C304529		3.04	13.95	0.11	0.9	0.036	2.36	21.0	24.5	1.06	630	0.41	1.55	7.2	2.8	620
C304530		3.11	14.15	0.11	1.0	0.036	2.53	23.7	19.4	0.97	850	0.48	1.79	7.0	2.9	580
C304531		3.36	15.25	0.11	1.1	0.041	2.96	29.2	16.3	0.92	654	0.48	2.22	7.3	3.0	630
C304532		5.80	12.80	0.12	0.9	0.623	2.81	23.0	36.4	0.74	1970	7.96	0.07	5.3	15.5	500
C304533		3.66	16.05	0.10	1.1	0.053	3.01	21.7	27.0	0.87	913	0.49	1.19	8.2	3.3	660
C304534		3.77	16.10	0.12	1.1	0.046	3.44	31.0	19.3	0.73	5020	1.26	0.06	7.6	2.7	620
C304535		3.66	16.55	0.12	1.0	0.052	2.07	20.2	56.9	0.76	868	0.37	0.71	9.5	2.7	670
C304536		4.58	15.55	0.14	0.8	0.124	2.27	51.2	27.1	1.63	1190	0.44	0.16	5.3	4.5	480
C304537		3.85	16.90	0.13	1.0	0.076	1.90	30.2	35.4	1.01	640	0.25	1.04	8.1	3.1	690
C304538		3.38	15.85	0.10	0.9	0.085	2.36	21.0	33.7	0.96	1170	0.29	0.97	6.8	2.8	630
C304539		3.44	16.60	0.12	0.9	0.085	2.36	21.9	34.7	0.97	1150	0.36	0.96	7.0	3.0	630
C304540		3.59	15.05	0.13	0.9	0.067	3.05	25.0	13.2	1.16	1320	0.49	0.54	6.0	3.2	590
C304541		3.20	15.00	0.11	0.9	0.045	2.28	21.5	15.7	0.81	959	0.30	1.44	6.6	2.8	590
C304542		2.99	16.35	0.13	1.0	0.048	2.90	24.1	23.0	0.58	538	0.52	1.07	7.6	2.7	620
C304543		3.47	15.85	0.12	1.0	0.046	3.15	22.4	30.1	0.84	1310	0.44	1.45	7.4	3.2	620
C304544		3.32	15.15	0.13	1.1	0.051	3.16	20.4	25.4	0.82	1280	0.49	1.49	7.1	2.8	640
C304545		3.36	15.60	0.14	1.0	0.037	2.84	23.8	13.2	0.85	686	0.57	2.46	7.6	3.2	620
C304546		3.38	15.80	0.13	1.1	0.039	2.85	25.0	15.8	0.95	741	0.55	2.59	7.7	3.1	640
C304547		3.54	16.30	0.14	1.1	0.040	2.87	25.2	17.2	0.97	755	0.74	2.57	8.1	3.3	670
C304548		3.45	16.70	0.13	1.1	0.045	2.88	24.4	15.3	0.83	790	0.68	2.49	7.9	3.4	650
C304549		3.28	15.80	0.12	0.9	0.091	2.65	20.7	46.6	0.80	938	0.41	1.37	6.4	2.7	590
C304550		3.37	13.75	0.11	0.8	0.086	2.85	23.4	20.0	1.09	1420	1.18	0.33	6.2	2.9	560
C304551		3.53	16.00	0.14	1.1	0.051	2.98	21.1	30.2	0.87	1190	0.46	1.59	7.9	3.0	670
C304552		3.51	16.20	0.12	1.0	0.069	2.79	22.6	24.1	0.91	844	0.44	2.56	7.7	3.2	670
C304553		3.15	14.15	0.12	0.9	0.052	2.73	20.7	75.2	1.06	2040	0.42	0.85	6.5	2.7	580
C304554		0.20	0.57	0.09	0.1	<0.005	0.09	1.1	1.3	1.52	112	0.07	0.09	0.4	0.6	70
C304555		3.28	15.65	0.17	1.1	0.047	2.77	27.0	28.0	0.87	817	0.46	2.46	7.2	3.0	640
C304556		3.49	15.50	0.15	1.1	0.036	2.75	27.2	14.9	0.96	734	0.71	2.37	7.5	3.1	640
C304557		3.64	16.10	0.12	1.0	0.083	3.31	23.3	44.9	0.85	1080	0.98	1.39	7.5	3.0	670
C304558		3.47	15.65	0.13	1.0	0.041	2.93	21.2	24.7	0.85	840	0.59	1.85	7.3	3.1	620
C304559		4.59	15.25	0.12	0.9	0.171	3.23	26.3	86.8	0.99	1430	0.98	0.23	6.6	2.6	590
C304560		4.36	14.75	0.13	0.9	0.063	2.87	26.7	56.2	0.98	1250	0.49	0.51	6.7	2.8	590

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Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238433

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304521		23.1	106.5	<0.002	0.20	5.35	10.3	<1	2.3	275	0.56	<0.05	11.95	0.277	1.34	4.2
C304522		20.2	106.5	<0.002	0.25	3.08	9.9	<1	1.9	296	0.56	<0.05	11.50	0.257	1.32	3.7
C304523		28.3	86.7	<0.002	0.07	2.58	10.0	1	1.7	334	0.58	<0.05	10.10	0.275	1.16	4.1
C304524		38.6	91.3	<0.002	0.04	2.94	10.3	1	1.6	371	0.65	<0.05	11.30	0.252	1.17	4.5
C304525		9290	106.5	<0.002	>10.0	233	6.2	2	9.5	88.3	0.29	1.82	6.64	0.146	1.66	4.1
C304526		24.1	89.6	<0.002	0.08	2.17	8.6	<1	1.5	328	0.60	<0.05	9.76	0.210	0.86	4.1
C304527		17.8	94.5	<0.002	0.11	2.85	8.6	<1	1.2	333	0.52	<0.05	12.15	0.215	0.94	4.1
C304528		19.3	91.8	0.002	0.04	3.05	9.6	<1	1.4	348	0.52	<0.05	12.75	0.246	1.04	3.9
C304529		18.6	86.4	<0.002	0.02	2.77	10.1	<1	1.4	399	0.50	<0.05	12.00	0.266	0.85	4.1
C304530		19.0	84.0	<0.002	0.03	2.38	9.9	<1	1.3	415	0.52	<0.05	9.95	0.248	0.92	3.4
C304531		18.0	102.0	<0.002	0.15	2.14	10.7	1	1.4	450	0.55	<0.05	14.45	0.271	0.98	4.2
C304532		1765	152.5	<0.002	3.36	42.7	8.4	1	5.5	75.9	0.41	0.23	9.13	0.205	2.25	3.5
C304533		144.0	101.5	<0.002	0.18	4.99	12.0	1	2.4	291	0.64	<0.05	10.35	0.282	1.29	3.7
C304534		690	163.0	<0.002	0.96	13.20	10.9	<1	3.9	112.5	0.57	<0.05	12.45	0.263	2.32	4.3
C304535		19.0	69.1	<0.002	0.16	7.31	11.0	<1	2.3	208	0.70	<0.05	11.00	0.289	1.11	3.9
C304536		37.6	133.0	<0.002	2.13	14.80	10.6	1	1.7	230	0.40	0.43	10.55	0.196	1.71	4.8
C304537		20.3	87.7	<0.002	0.42	5.22	13.7	<1	3.5	270	0.63	0.08	12.80	0.282	1.16	4.1
C304538		64.5	94.5	<0.002	0.72	4.76	10.1	1	2.1	235	0.53	0.11	10.05	0.260	1.57	3.2
C304539		64.4	96.0	<0.002	0.68	5.00	10.6	<1	2.7	236	0.50	0.07	10.50	0.256	1.67	3.3
C304540		13.6	167.0	<0.002	1.72	4.96	10.0	1	1.4	228	0.45	0.15	9.46	0.228	1.92	3.8
C304541		14.2	102.0	<0.002	0.73	3.89	9.6	<1	1.7	281	0.48	0.11	9.44	0.245	1.37	3.6
C304542		16.7	98.0	<0.002	0.09	9.70	10.7	<1	1.5	287	0.57	<0.05	11.50	0.257	1.08	3.1
C304543		89.5	116.0	<0.002	0.21	4.87	10.1	1	1.6	293	0.53	<0.05	11.25	0.258	1.41	3.8
C304544		224	104.0	<0.002	0.21	4.49	10.1	<1	1.6	296	0.60	<0.05	11.25	0.265	1.46	4.9
C304545		15.5	96.4	<0.002	0.07	1.21	10.7	<1	1.5	423	0.61	<0.05	11.75	0.263	0.94	3.8
C304546		15.1	94.3	<0.002	0.02	1.07	11.0	<1	1.5	445	0.60	<0.05	11.70	0.273	0.89	4.1
C304547		15.4	99.2	<0.002	0.04	0.86	12.4	<1	1.5	451	0.62	<0.05	13.10	0.281	0.94	4.0
C304548		18.7	96.5	<0.002	0.09	1.53	10.9	<1	2.0	429	0.58	<0.05	11.60	0.272	1.06	4.6
C304549		32.3	95.0	<0.002	1.12	4.58	9.5	<1	1.6	461	0.49	0.17	9.14	0.238	1.35	3.4
C304550		47.1	143.0	<0.002	1.05	10.05	9.7	<1	1.6	174.0	0.43	0.07	10.20	0.226	2.02	3.6
C304551		19.2	108.5	<0.002	0.50	4.56	11.2	<1	1.7	318	0.60	0.06	10.70	0.277	1.48	3.7
C304552		21.3	99.3	<0.002	0.63	2.79	11.4	<1	2.2	453	0.58	0.10	11.25	0.278	1.20	3.9
C304553		53.2	102.5	<0.002	0.43	10.55	9.6	<1	1.8	242	0.53	0.05	9.25	0.241	1.44	3.6
C304554		0.5	2.3	<0.002	0.01	0.05	0.2	1	<0.2	87.4	0.05	<0.05	0.17	0.005	0.02	0.3
C304555		21.8	105.0	0.002	0.23	3.15	10.7	<1	1.7	397	0.55	<0.05	11.85	0.269	1.09	3.9
C304556		14.6	104.0	<0.002	0.35	1.21	11.2	1	1.6	491	0.60	0.05	17.30	0.270	1.06	4.3
C304557		43.9	129.5	<0.002	0.29	4.25	11.1	<1	1.8	320	0.56	<0.05	11.00	0.267	1.90	3.9
C304558		20.9	110.5	<0.002	0.23	4.54	10.4	<1	1.6	372	0.55	<0.05	9.41	0.265	1.46	3.4
C304559		80.0	161.5	<0.002	0.73	10.60	10.2	1	3.1	153.5	0.51	<0.05	10.85	0.244	2.39	4.1
C304560		18.1	122.5	<0.002	0.32	8.80	10.4	<1	1.9	259	0.50	<0.05	10.50	0.246	1.84	3.8

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 8-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20238433

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304521		75	1.3	15.2	69	21.1	0.009
C304522		69	0.9	14.5	54	21.7	<0.005
C304523		73	1.5	14.3	51	22.0	<0.005
C304524		69	1.3	21.6	85	21.7	<0.005
C304525		49	4.0	8.8	>10000	17.7	3.03
C304526		59	2.2	27.3	38	19.9	<0.005
C304527		57	1.3	19.6	71	21.7	<0.005
C304528		65	1.1	13.9	48	23.9	<0.005
C304529		68	0.8	13.8	43	21.5	<0.005
C304530		70	0.6	17.1	43	26.8	<0.005
C304531		76	0.7	16.8	48	27.2	<0.005
C304532		62	4.4	10.5	2770	25.7	0.604
C304533		78	1.1	16.3	86	28.1	0.028
C304534		74	2.7	14.6	304	27.9	0.159
C304535		77	1.4	16.0	70	27.8	<0.005
C304536		91	2.7	27.8	131	20.4	0.025
C304537		74	2.1	18.6	71	26.6	<0.005
C304538		76	1.6	12.9	197	23.9	0.008
C304539		76	1.7	13.2	186	24.9	0.009
C304540		68	1.8	12.2	85	24.4	0.011
C304541		68	1.6	13.2	60	22.5	0.009
C304542		72	1.2	16.3	50	27.3	<0.005
C304543		76	1.0	16.6	250	28.2	0.006
C304544		76	1.1	15.0	427	27.0	0.007
C304545		74	0.4	17.4	49	26.9	<0.005
C304546		77	0.4	17.9	51	28.7	<0.005
C304547		79	0.3	18.6	55	28.6	<0.005
C304548		77	0.9	17.2	58	28.8	<0.005
C304549		72	0.8	12.8	64	22.9	0.008
C304550		67	1.6	15.3	84	21.4	0.011
C304551		80	1.0	16.3	68	28.0	<0.005
C304552		80	0.5	17.1	77	27.2	0.007
C304553		69	1.3	15.5	667	23.5	0.016
C304554		1	<0.1	2.3	5	2.8	<0.005
C304555		76	0.5	17.4	80	26.7	<0.005
C304556		77	0.4	18.2	52	29.2	<0.005
C304557		77	1.3	16.2	232	29.1	0.008
C304558		75	1.1	15.1	86	26.2	<0.005
C304559		71	4.6	13.8	548	25.0	0.060
C304560		71	3.2	16.8	74	23.8	0.015

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 8-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20238433

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE WH20240068

Project: Klaza

P.O. No.: Batch 69

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240068

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Zn-OG62 Zn % 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
C304561		1.76		0.92	7.26	43.5	1930	1.52	0.64	2.35	7.70	45.4	6.3	16	16.40	7.8
C304562		4.71		0.18	6.98	11.4	2410	1.62	0.32	2.66	0.94	37.5	8.2	14	20.2	6.8
C304563		1.95		12.55	6.43	342	190	1.51	4.52	3.38	44.3	43.7	10.2	12	15.05	213
C304564		0.74		12.80	6.48	339	460	1.51	6.34	3.14	23.1	45.3	11.6	10	11.85	242
C304565		4.77		0.15	7.26	9.1	2200	1.56	0.26	2.44	1.64	42.8	7.6	14	11.45	5.3
C304566		4.21		0.09	7.16	15.0	2630	1.65	0.18	2.83	0.10	39.0	7.3	14	9.45	4.6
C304567		3.06		0.09	6.65	14.3	2640	1.58	0.16	2.72	0.08	37.6	7.0	12	15.80	6.1
C304568		1.52		0.28	6.89	33.8	1930	1.74	0.16	2.85	0.09	43.8	7.2	12	21.2	6.1
C304569		2.15		0.27	7.22	74.5	1730	1.73	0.41	1.57	0.99	43.9	6.8	10	16.70	9.7
C304570		2.46		0.30	6.54	87.5	1950	1.65	0.23	2.64	2.98	39.4	7.1	11	19.20	7.1
C304571		4.73		0.26	6.78	37.5	2300	1.71	0.24	2.64	1.64	36.6	7.5	11	18.45	5.8
C304572		4.48		0.13	7.24	18.6	2170	1.62	0.15	3.00	0.32	46.0	8.6	18	17.75	5.4
C304573		2.02		0.14	6.82	21.8	2640	1.62	0.18	2.74	0.12	36.2	8.4	12	18.40	4.9
C304574		0.26		10.35	6.28	1880	270	1.49	5.65	1.66	35.3	44.6	11.3	28	15.65	190.5
C304575		5.66		0.12	7.13	8.7	2760	1.56	0.25	2.78	0.14	40.7	8.2	13	12.05	5.1
C304576		11.22		0.25	7.21	67.1	2350	1.55	0.28	2.54	2.35	38.6	7.6	11	13.35	8.0
C304577		8.73		0.16	7.13	19.5	2760	1.67	0.29	2.83	0.65	44.1	7.9	14	11.70	7.9
C304578		5.21		0.02	0.14	0.7	20	0.09	0.02	35.4	0.02	1.10	0.6	2	0.06	3.1
C304579		2.48		5.81	7.46	714	930	1.56	0.36	2.44	57.3	50.8	10.3	12	13.80	51.4
C304580		2.35		2.35	8.01	211	1110	1.76	0.20	2.24	26.1	53.7	6.4	13	17.85	17.9
C304581		1.76		12.25	6.59	606	330	1.34	7.81	0.51	76.3	40.3	5.3	11	9.33	83.7
C304582		2.61		7.98	6.26	7120	150	1.23	9.15	0.39	43.2	26.1	6.6	10	10.95	175.0
C304583		11.17		0.27	7.51	48.9	2450	1.66	0.36	2.85	1.11	45.0	7.8	14	16.55	4.0
C304584		5.04		0.14	7.67	11.4	2490	1.38	0.34	3.76	0.17	45.3	8.9	14	10.35	7.1
C304585		2.08		8.17	7.13	3250	710	1.60	11.75	3.02	19.80	51.5	8.4	10	16.95	83.4
C304586		2.32		0.20	7.39	35.0	2310	1.61	0.32	2.50	0.62	47.5	7.4	11	12.85	5.1
C304587		1.95		4.72	7.36	566	1280	1.62	6.77	3.47	11.75	52.5	7.6	13	18.30	70.5
C304588		<0.02		4.12	6.92	504	1440	1.67	5.61	3.66	11.00	46.6	7.1	10	17.35	54.8
C304589		6.09		0.19	7.29	11.9	2920	1.68	0.33	2.97	0.84	43.1	8.0	19	12.60	3.7
C304590		8.08		0.15	7.41	15.8	3230	1.61	0.30	2.97	0.42	45.0	7.2	12	12.95	4.1
C304591		4.00		0.62	7.25	115.5	1860	1.55	0.99	4.60	3.23	42.3	8.9	58	12.50	10.4
C304592		1.15		4.97	6.68	155.5	1170	1.47	5.94	3.71	40.8	38.0	8.9	54	12.65	186.0
C304593		1.73		0.58	7.24	84.8	870	1.72	0.71	3.62	5.85	41.1	9.4	60	15.05	6.2
C304594		1.16		5.55	6.85	248	1330	1.63	9.81	3.61	5.45	41.0	9.9	57	14.40	32.2
C304595		5.33		1.12	7.05	441	1470	1.51	1.28	3.92	8.14	39.7	9.0	54	11.60	12.5
C304596		0.26	1.415	93.4	4.63	4000	210	1.07	51.3	1.58	196.5	31.4	58.2	36	9.55	1280
C304597		1.73		0.64	7.38	99.1	1680	1.61	0.64	2.71	2.38	55.2	7.5	11	13.70	22.9
C304598		1.35		8.17	7.04	407	280	1.51	11.30	2.02	13.25	52.2	7.7	9	13.20	414
C304599		2.42		1.09	7.65	64.6	460	1.68	2.46	2.27	0.70	55.8	8.8	13	15.65	15.2
C304600		3.02		0.36	7.04	38.4	240	1.51	1.22	3.07	0.42	47.3	8.4	9	19.70	8.5

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304561		4.21	14.95	0.12	0.9	0.157	2.99	23.2	31.5	0.86	1200	0.37	1.44	7.1	2.8	610
C304562		3.50	15.70	0.13	1.0	0.049	2.63	18.7	31.1	0.77	825	0.56	2.02	7.6	3.4	630
C304563		5.36	13.85	0.12	0.8	1.065	3.05	23.7	17.7	1.13	2250	0.94	0.07	5.7	2.9	530
C304564		6.06	14.15	0.13	0.8	0.749	3.10	24.6	15.3	1.22	3340	1.29	0.09	5.2	3.3	510
C304565		3.09	16.00	0.14	0.9	0.056	2.78	21.8	28.6	0.74	711	0.61	1.42	7.4	2.9	630
C304566		3.40	15.75	0.13	0.9	0.064	2.81	19.4	13.8	0.81	783	0.69	2.13	7.6	3.3	640
C304567		2.79	15.40	0.15	1.0	0.040	2.77	18.7	88.8	0.62	689	0.37	1.67	7.5	2.7	590
C304568		2.96	15.80	0.15	1.0	0.041	3.14	21.7	43.0	0.78	775	0.70	1.13	7.8	3.1	610
C304569		3.49	15.95	0.14	1.0	0.108	3.06	22.2	103.0	0.68	668	0.78	0.53	7.7	3.1	620
C304570		3.02	14.60	0.14	0.9	0.099	3.02	20.1	122.5	0.83	1290	0.82	0.07	6.9	2.8	580
C304571		3.14	15.85	0.15	0.8	0.119	3.09	17.4	82.5	0.70	1270	0.40	1.01	7.8	2.7	620
C304572		3.79	15.90	0.16	1.0	0.067	2.86	23.3	23.4	0.83	1100	0.55	1.68	7.8	4.0	810
C304573		2.92	15.80	0.14	1.0	0.039	2.72	18.0	34.5	0.74	718	0.39	1.62	7.7	2.9	630
C304574		5.69	14.50	0.15	0.9	0.658	2.75	24.3	42.8	0.71	1940	8.95	0.06	6.2	17.4	490
C304575		3.15	15.95	0.16	0.9	0.035	2.66	20.3	18.2	0.78	672	0.89	1.89	7.8	3.2	620
C304576		3.13	15.80	0.14	0.9	0.064	2.75	19.0	29.8	0.75	675	0.51	1.39	7.7	2.9	640
C304577		3.40	16.10	0.16	0.9	0.048	2.77	22.5	17.4	0.83	786	0.52	1.89	7.8	3.4	630
C304578		0.14	0.39	<0.05	0.1	0.005	0.05	1.1	1.1	1.35	94	0.46	0.05	0.2	2.3	60
C304579		4.27	14.70	0.09	0.9	0.082	3.47	26.8	28.7	0.93	1030	0.75	0.12	6.6	4.0	610
C304580		3.18	15.75	0.09	1.0	0.053	3.30	28.3	113.0	0.80	882	0.59	0.07	7.7	2.6	670
C304581		6.19	13.25	0.06	0.9	2.16	3.14	21.6	11.1	0.42	3690	1.96	0.02	5.8	2.9	530
C304582		6.96	14.05	0.06	0.8	1.140	2.99	13.2	12.6	0.33	1560	3.77	0.02	5.6	2.7	480
C304583		4.10	14.65	0.07	0.9	0.063	3.32	23.6	33.2	0.94	1120	0.51	0.92	7.0	3.2	620
C304584		3.19	15.10	0.09	1.0	0.043	2.95	22.7	52.3	1.00	685	0.81	0.52	7.8	3.1	710
C304585		4.88	14.35	0.07	0.9	0.414	3.49	27.7	37.6	0.86	1760	1.45	0.10	6.7	3.8	610
C304586		3.72	14.90	0.08	0.9	0.049	3.21	23.5	66.4	0.87	810	0.60	1.03	7.3	2.6	660
C304587		4.26	15.05	0.08	0.8	0.198	3.54	28.0	32.0	0.91	1420	1.10	0.18	7.0	3.2	610
C304588		3.80	15.05	0.08	0.9	0.192	3.45	22.5	30.1	0.82	1360	0.96	0.16	6.8	2.7	610
C304589		3.34	15.40	0.08	0.9	0.042	3.08	20.5	32.0	0.77	735	1.99	1.84	7.5	3.3	640
C304590		3.23	14.80	0.10	0.9	0.040	3.06	22.1	26.6	0.85	793	0.63	1.68	7.1	2.8	640
C304591		3.24	15.20	0.10	1.7	0.079	3.35	23.0	82.1	1.39	1260	3.24	0.13	6.7	19.7	660
C304592		4.19	14.25	0.08	1.6	0.545	3.21	20.4	46.0	1.30	1250	3.62	0.04	6.2	18.4	620
C304593		3.38	15.60	0.08	1.8	0.081	3.38	22.2	108.0	1.45	1150	0.81	0.06	6.5	21.1	670
C304594		3.80	15.25	0.08	1.7	0.124	3.21	21.7	81.1	1.38	1120	1.33	0.05	6.1	21.3	640
C304595		3.59	14.85	0.10	1.6	0.123	3.38	21.4	53.9	1.43	1750	3.47	0.04	6.4	20.5	660
C304596		11.70	11.25	0.06	0.8	4.47	1.95	15.7	31.0	0.55	1850	17.45	0.15	4.2	15.7	380
C304597		3.24	15.60	0.09	1.0	0.105	3.37	28.6	85.3	0.96	1540	1.41	0.04	7.3	3.7	640
C304598		5.27	15.10	0.09	0.9	0.684	3.42	27.8	14.0	0.86	1650	3.08	0.03	6.0	3.0	550
C304599		4.17	16.95	0.08	1.0	0.103	3.53	29.9	53.4	0.86	1080	1.35	0.07	7.6	3.5	650
C304600		3.56	14.85	0.09	0.8	0.038	3.20	24.1	19.7	1.11	1220	2.11	0.04	5.5	2.9	590

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240068

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304561		94.7	120.5	<0.002	0.38	5.02	9.8	<1	2.3	302	0.53	<0.05	11.65	0.254	1.91	3.8
C304562		26.2	95.3	<0.002	0.25	2.84	10.3	<1	1.9	377	0.59	<0.05	10.10	0.263	1.32	3.7
C304563		547	182.5	<0.002	3.82	55.8	8.9	1	2.8	109.5	0.45	0.21	10.50	0.200	2.74	4.3
C304564		661	206	<0.002	4.08	65.4	8.9	1	3.6	93.6	0.41	0.18	11.30	0.180	2.90	4.8
C304565		35.8	101.5	<0.002	0.56	6.52	10.3	<1	1.8	287	0.56	0.07	11.50	0.251	1.43	3.6
C304566		16.4	92.7	<0.002	0.28	1.73	10.0	<1	1.9	409	0.59	<0.05	10.40	0.264	1.27	4.0
C304567		16.6	91.5	<0.002	0.22	4.82	9.3	<1	1.7	366	0.57	<0.05	11.05	0.252	1.44	4.7
C304568		14.7	118.5	<0.002	0.27	6.75	10.2	<1	2.0	297	0.61	<0.05	11.00	0.257	1.99	4.0
C304569		22.1	117.0	0.002	0.56	8.72	10.8	<1	3.2	208	0.63	<0.05	12.35	0.253	1.77	5.3
C304570		79.3	113.5	<0.002	0.46	9.78	9.1	<1	2.0	165.5	0.56	<0.05	10.55	0.229	2.25	4.1
C304571		24.9	111.5	0.002	0.37	7.26	10.0	<1	1.9	285	0.56	<0.05	8.75	0.261	1.96	3.2
C304572		21.5	119.0	<0.002	0.24	3.31	11.8	<1	2.0	348	0.56	<0.05	11.95	0.273	1.67	4.3
C304573		14.9	90.8	<0.002	0.44	3.16	9.9	<1	1.7	334	0.60	<0.05	9.66	0.257	1.41	3.6
C304574		1710	155.5	<0.002	3.28	48.0	8.8	<1	6.0	78.7	0.50	0.19	10.95	0.200	2.68	4.3
C304575		16.7	91.1	<0.002	0.56	3.09	10.3	<1	1.7	395	0.57	<0.05	10.50	0.261	1.31	3.5
C304576		34.1	95.2	<0.002	0.65	8.80	9.9	1	2.0	308	0.56	0.05	10.85	0.261	1.37	3.5
C304577		25.5	110.5	<0.002	0.75	4.36	10.6	1	2.1	460	0.56	0.07	11.75	0.255	1.51	4.1
C304578		2.7	1.6	<0.002	0.01	0.34	0.2	1	<0.2	86.3	<0.05	<0.05	0.20	0.005	<0.02	0.3
C304579		1450	194.0	<0.002	2.30	41.9	9.9	<1	4.5	113.0	0.52	0.09	11.60	0.235	2.49	4.1
C304580		713	164.5	<0.002	1.13	19.50	11.1	<1	4.0	147.5	0.58	<0.05	13.00	0.268	2.13	3.9
C304581		244	183.0	<0.002	3.97	21.9	8.6	<1	4.6	24.8	0.45	<0.05	10.45	0.204	2.97	2.5
C304582		185.0	168.0	<0.002	6.09	45.3	8.3	<1	7.7	25.7	0.42	0.10	8.48	0.196	2.50	2.5
C304583		37.6	146.5	<0.002	0.82	6.57	10.3	<1	2.1	345	0.53	0.05	11.55	0.250	2.19	3.7
C304584		17.1	100.0	<0.002	0.98	3.65	11.2	<1	1.9	236	0.61	0.08	11.70	0.281	1.59	3.3
C304585		233	169.5	<0.002	2.49	35.9	10.5	1	4.5	166.5	0.52	0.06	11.70	0.242	2.59	5.4
C304586		23.0	121.5	<0.002	0.62	4.91	11.3	1	1.9	306	0.54	0.06	11.35	0.270	1.89	3.3
C304587		460	178.5	<0.002	1.86	20.4	10.3	1	3.1	171.0	0.50	0.10	11.90	0.246	2.73	4.4
C304588		427	154.0	<0.002	1.71	18.95	9.8	<1	3.4	165.5	0.52	0.08	10.20	0.240	2.74	4.1
C304589		42.9	104.0	<0.002	0.76	3.35	10.3	<1	1.7	430	0.56	0.06	10.90	0.258	1.71	3.5
C304590		23.3	112.5	<0.002	0.67	3.61	10.2	<1	1.8	449	0.56	0.05	12.20	0.262	1.62	3.6
C304591		109.5	169.5	0.002	0.46	13.00	8.7	<1	1.3	255	0.59	<0.05	9.92	0.212	2.74	5.3
C304592		269	165.0	<0.002	1.64	25.1	7.9	<1	1.9	156.5	0.53	<0.05	9.25	0.197	2.67	6.9
C304593		138.0	159.5	<0.002	0.38	7.10	8.8	<1	1.4	197.0	0.56	<0.05	9.84	0.203	2.62	5.0
C304594		296	160.5	<0.002	1.19	12.35	8.6	<1	1.5	176.0	0.55	0.07	9.93	0.191	2.64	5.4
C304595		183.0	177.5	<0.002	0.65	15.50	8.5	<1	1.5	155.0	0.53	<0.05	9.67	0.205	3.02	5.9
C304596		8550	113.0	0.002	>10.0	240	6.8	1	11.0	89.9	0.34	2.11	7.32	0.142	1.80	4.5
C304597		55.9	160.5	<0.002	0.85	8.21	10.6	<1	2.0	164.0	0.60	0.06	13.50	0.248	3.25	4.6
C304598		157.5	206	<0.002	3.66	49.0	9.7	<1	8.4	79.8	0.47	0.12	11.75	0.210	2.94	4.3
C304599		29.4	190.5	0.002	2.11	6.53	11.9	<1	3.8	154.5	0.61	0.16	13.45	0.265	2.91	4.7
C304600		49.2	182.0	<0.002	2.33	7.12	10.1	<1	2.1	206	0.44	0.18	11.05	0.200	3.08	4.7

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20240068

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304561		71	2.6	14.5	607	23.6	0.029
C304562		73	1.3	14.9	110	26.6	<0.005
C304563		63	3.9	13.0	3150	23.1	0.396
C304564		59	4.7	11.8	1760	21.6	0.170
C304565		70	1.4	15.0	147	25.6	0.005
C304566		74	0.9	14.8	55	24.2	0.006
C304567		68	1.1	13.3	47	25.9	<0.005
C304568		71	3.1	14.6	50	26.2	0.011
C304569		73	2.4	13.2	130	26.2	0.050
C304570		66	3.4	12.4	348	24.4	0.006
C304571		72	1.6	13.8	166	23.0	<0.005
C304572		80	1.7	16.7	82	25.2	<0.005
C304573		71	1.3	13.6	49	25.3	0.008
C304574		60	5.8	11.0	2700	27.3	0.705
C304575		72	0.8	14.5	53	24.7	<0.005
C304576		73	2.0	13.9	183	23.0	0.026
C304577		72	1.3	15.3	87	23.6	0.009
C304578		1	<0.1	2.5	6	2.1	<0.005
C304579		71	3.2	13.4	3040	22.1	0.551
C304580		74	2.9	14.1	1320	24.6	0.147
C304581		60	6.2	8.5	5030	18.9	0.343
C304582		60	9.2	8.2	2980	17.4	1.655
C304583		72	2.7	14.3	134	22.4	0.030
C304584		76	3.2	15.8	52	25.1	<0.005
C304585		71	4.4	13.4	1360	20.6	5.09
C304586		83	2.2	14.7	82	23.5	0.016
C304587		70	4.6	14.5	830	20.8	0.184
C304588		69	5.1	13.3	773	21.1	0.150
C304589		73	1.0	14.3	93	23.8	<0.005
C304590		74	1.6	14.6	72	22.7	<0.005
C304591		73	2.6	10.8	294	49.1	0.018
C304592		69	3.1	9.9	2780	48.1	0.071
C304593		75	3.2	10.5	453	51.7	0.029
C304594		72	2.9	10.4	425	51.0	0.118
C304595		73	3.4	10.6	635	50.6	0.034
C304596		48	4.5	9.7	>10000	20.9	3.10
C304597		70	5.4	14.3	210	27.1	0.007
C304598		64	6.8	10.3	943	19.1	1.515
C304599		77	3.8	14.0	78	23.8	0.011
C304600		66	2.5	13.6	69	19.2	0.010

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240068

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE WH20240084

Project: Klaza

P.O. No.: Batch 72

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240084

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304117		8.00		0.28	7.86	11.0	260	1.59	0.89	2.31	0.23	57.6	23.8	18	8.21	229
C304118		6.30		0.22	7.73	17.3	190	1.58	1.25	2.30	0.22	40.5	31.4	13	9.50	124.0
C304119		4.38		0.29	7.22	16.2	460	1.41	1.26	2.04	0.29	41.6	28.4	13	10.40	96.6
C304120		4.55		0.34	7.79	38.3	250	1.38	1.05	1.90	0.26	54.9	17.8	13	12.15	207
C304121		7.51		1.14	6.10	106.0	210	1.09	2.30	1.42	2.04	24.7	16.8	13	9.43	217
C304122		6.55		0.24	6.90	13.1	530	1.40	0.63	2.23	0.30	34.4	10.9	12	13.65	73.9
C304123		7.14		0.46	6.71	13.9	240	1.26	1.21	1.84	2.18	25.1	13.3	14	10.25	40.3
C304124		6.57		0.29	7.21	26.6	570	1.52	0.74	2.43	0.34	37.0	8.5	11	14.40	52.8
C304125		5.30		0.51	7.32	19.4	160	1.62	0.98	3.58	0.39	36.7	26.5	16	12.35	368
C304126		7.31		0.27	7.66	13.8	530	1.89	0.60	3.02	0.51	30.4	10.6	13	12.00	43.6
C304127		7.41		0.29	7.90	6.0	600	1.74	0.55	3.32	0.24	42.9	11.6	16	9.61	67.5
C304128		8.02		0.28	7.86	6.9	630	1.69	0.56	3.48	0.27	45.7	9.2	14	8.68	100.0
C304129		7.99		0.39	8.12	8.3	1020	1.87	0.67	3.38	0.36	61.1	13.1	14	8.46	198.0
C304130		7.11		0.30	8.33	8.1	1150	1.54	0.59	2.88	0.24	38.3	10.1	15	11.65	108.5
C304131		4.68		0.69	5.15	28.2	130	0.96	1.79	3.48	8.75	69.8	53.9	22	11.15	101.0
C304132		4.79		0.46	7.00	21.1	390	1.45	0.65	3.59	0.84	52.3	22.0	10	21.5	192.5
C304133		4.52		0.34	7.59	22.7	610	1.73	0.57	2.42	1.62	34.0	6.1	12	15.85	57.6
C304134		6.18		0.75	7.39	61.0	290	1.47	1.78	1.67	4.31	33.6	7.5	12	20.8	36.0
C304135		6.37		0.18	7.15	79.8	990	1.79	0.31	3.33	0.13	55.2	6.5	19	12.45	10.6
C304136		4.64		0.94	7.43	112.0	400	1.48	2.37	2.24	1.71	63.2	10.1	21	13.75	71.1
C304137		0.26		9.61	6.60	1960	300	1.33	5.71	1.74	35.8	45.7	10.9	28	16.55	192.5
C304138		4.39		1.13	7.96	86.4	470	1.78	1.67	3.38	3.40	37.8	23.2	21	24.8	183.0
C304139		<0.02		1.23	7.46	87.5	370	1.72	1.69	3.37	3.45	33.4	23.4	20	23.8	197.0
C304140		5.11		0.84	8.84	58.4	490	1.89	2.66	3.46	1.95	32.6	17.6	16	24.6	143.0
C304141		7.96		0.43	8.00	16.5	470	1.36	1.95	4.63	0.25	43.8	24.6	24	13.20	201
C304142		3.93		0.50	7.95	20.4	390	1.30	2.09	4.66	0.21	42.6	24.6	26	12.00	233
C304143		8.09		0.37	8.64	12.0	1350	1.37	1.29	5.48	0.19	45.3	20.5	31	11.80	195.5
C304144		7.30		1.14	8.18	22.0	320	1.13	3.72	4.17	1.02	40.9	24.2	40	11.70	236
C304145		8.45		1.05	8.02	24.3	360	1.24	12.90	4.15	0.83	44.6	25.5	44	17.25	450
C304146		0.26	1.490	92.6	4.57	4010	120	0.90	53.8	1.53	194.5	31.6	60.6	35	9.69	1280
C304147		7.87		0.41	8.22	12.3	1670	1.31	1.66	4.43	0.28	43.3	27.4	47	8.70	215
C304148		5.06		0.44	7.99	11.8	1310	1.26	1.89	4.60	0.24	43.9	27.4	53	10.45	242
C304149		9.01		0.40	8.15	11.6	1300	1.23	5.62	4.87	0.22	44.8	27.9	44	9.14	227
C304150		8.65		0.32	8.14	13.8	1490	1.24	1.39	5.39	0.59	44.8	23.0	43	8.60	133.5
C304151		6.69		0.23	8.66	11.0	1450	1.23	0.96	4.42	0.18	48.0	27.2	47	12.35	143.0
C304152		8.42		0.36	8.29	14.8	1270	1.10	1.46	4.81	0.21	44.8	25.5	47	9.92	184.0
C304153		6.90		0.26	8.14	12.8	1670	1.04	0.84	4.69	0.17	45.9	22.0	46	10.30	116.0
C304154		4.94		0.01	0.16	0.8	30	0.08	0.08	33.0	0.02	0.99	0.7	2	0.08	1.7
C304155		8.69		1.68	6.95	227	190	1.04	3.70	4.33	3.85	57.7	23.5	51	12.50	346
C304156		3.18		0.82	7.16	87.2	120	1.05	2.34	3.42	0.54	40.7	25.2	42	10.95	234

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240084

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304117		4.30	13.45	0.07	0.4	0.047	3.05	32.0	22.5	1.48	159	667	1.35	4.6	4.9	820
C304118		4.32	13.15	0.09	0.3	0.050	3.10	22.3	17.5	1.12	193	10.50	1.12	3.8	4.6	590
C304119		5.29	11.65	0.08	0.3	0.103	3.39	24.4	10.0	1.04	318	9.34	0.21	2.6	4.0	520
C304120		3.82	12.95	0.08	0.3	0.069	3.21	29.7	18.0	0.97	335	5.86	0.06	3.8	5.3	600
C304121		5.42	10.85	0.07	0.3	0.100	2.93	12.9	6.2	0.86	1140	12.80	0.04	2.6	5.2	360
C304122		3.24	12.05	0.07	0.5	0.054	2.91	17.8	12.6	0.75	375	11.70	0.35	4.7	4.4	370
C304123		5.16	10.50	0.06	0.4	0.219	2.94	13.1	4.5	0.84	348	8.72	0.28	4.2	4.6	370
C304124		3.50	13.85	0.08	0.4	0.067	3.16	20.0	9.9	1.00	380	3.23	0.51	5.4	3.9	430
C304125		5.43	14.40	0.07	0.5	0.082	2.12	18.8	17.6	1.40	329	552	1.23	5.6	11.8	740
C304126		3.10	16.20	0.09	0.6	0.055	2.58	15.4	11.7	1.01	388	10.05	1.61	8.6	5.1	710
C304127		3.20	15.85	0.09	0.6	0.051	2.02	22.3	15.5	1.24	277	15.50	2.04	8.6	5.6	730
C304128		3.11	16.35	0.09	0.5	0.050	2.03	22.2	17.8	1.27	249	11.10	1.99	8.1	5.0	780
C304129		3.80	17.60	0.10	0.5	0.059	2.33	29.5	18.1	1.48	227	12.55	2.17	8.9	6.2	950
C304130		3.07	15.80	0.13	0.6	0.042	2.75	20.4	17.5	1.31	180	11.35	2.00	9.1	4.7	580
C304131		7.28	10.15	0.11	0.4	0.167	2.09	37.6	12.1	0.78	310	243	0.59	3.8	8.8	320
C304132		4.05	12.45	0.10	0.4	0.076	3.14	30.2	5.1	0.95	797	98.4	0.06	5.3	4.8	410
C304133		3.12	14.05	0.11	0.4	0.092	3.48	19.8	3.6	1.09	904	4.41	0.04	6.2	4.1	480
C304134		4.12	13.85	0.10	0.7	0.241	3.38	18.5	6.6	0.86	798	12.95	0.13	5.0	4.2	560
C304135		2.33	18.10	0.16	3.6	0.043	2.21	27.6	35.7	0.79	665	2.35	0.78	11.4	6.0	1130
C304136		3.19	16.85	0.14	3.1	0.084	2.17	33.6	35.9	0.76	749	39.8	0.05	9.7	8.1	1150
C304137		5.91	14.00	0.10	0.9	0.677	2.89	24.9	39.7	0.75	1990	8.61	0.06	6.0	16.7	500
C304138		5.58	17.25	0.12	0.5	0.152	3.74	19.0	4.2	1.54	2420	0.94	0.05	3.4	11.1	1290
C304139		5.50	17.55	0.08	0.5	0.150	3.72	15.8	4.3	1.48	2420	1.06	0.05	3.4	11.0	1290
C304140		5.53	18.75	0.12	0.4	0.256	3.72	17.1	9.0	1.49	1630	2.05	0.05	4.3	9.5	920
C304141		6.06	17.05	0.14	0.5	0.192	1.67	21.7	24.5	2.31	481	2.12	1.26	4.7	14.6	1890
C304142		6.48	16.75	0.11	0.4	0.180	1.71	20.8	22.8	2.31	516	2.73	1.19	4.6	15.2	1950
C304143		5.96	17.85	0.13	0.5	0.203	1.44	22.8	19.1	2.50	721	2.21	1.62	5.7	17.1	1920
C304144		6.64	19.60	0.12	0.6	0.211	2.41	19.9	20.9	2.27	657	4.74	0.69	5.5	19.8	1890
C304145		6.67	18.35	0.13	0.5	0.191	2.34	22.3	20.4	2.70	566	6.82	0.84	5.7	23.3	1880
C304146		11.55	11.05	0.07	0.7	4.56	1.97	15.8	27.2	0.53	1840	17.20	0.15	4.2	15.4	370
C304147		6.55	17.50	0.11	0.5	0.139	2.20	20.2	18.4	3.09	668	4.54	1.77	6.5	23.6	1880
C304148		6.28	17.20	0.14	0.5	0.128	1.88	20.5	21.7	3.16	695	4.14	1.65	6.5	24.7	1840
C304149		6.59	17.00	0.13	0.5	0.130	1.75	22.0	22.9	3.06	669	0.93	1.60	6.5	24.0	1830
C304150		6.13	17.00	0.14	0.5	0.126	1.86	21.9	16.5	2.89	861	1.64	1.64	6.7	22.7	1820
C304151		6.78	16.60	0.16	0.5	0.105	1.94	23.6	21.5	3.26	652	1.68	1.65	6.7	24.6	1880
C304152		6.28	16.95	0.15	0.5	0.114	1.85	22.2	21.5	3.05	679	2.17	1.59	5.8	23.4	1880
C304153		6.18	16.15	0.17	0.6	0.109	1.84	24.1	21.2	2.99	694	1.33	1.42	5.4	22.9	1810
C304154		0.15	0.39	<0.05	0.1	<0.005	0.05	1.1	1.2	1.54	94	<0.05	0.06	0.2	2.3	60
C304155		7.67	15.85	0.08	0.7	0.174	2.07	27.2	18.2	2.69	1310	2.51	0.64	5.3	24.2	1720
C304156		7.81	15.35	0.09	0.6	0.129	2.35	19.7	21.5	2.44	649	2.89	0.79	3.7	20.9	1560

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304117		18.3	109.5	0.081	3.39	1.65	13.4	4	4.2	305	0.38	0.19	7.67	0.223	2.05	3.1
C304118		17.1	128.0	0.003	3.64	1.96	11.4	4	4.8	261	0.31	0.35	8.78	0.187	2.20	2.5
C304119		18.0	162.5	0.002	4.79	2.68	10.4	4	8.0	160.0	0.22	0.33	9.14	0.143	2.74	1.9
C304120		19.2	143.0	<0.002	3.33	26.1	11.0	2	5.5	350	0.32	0.16	9.54	0.179	2.75	2.1
C304121		234	140.0	0.003	5.37	66.7	7.8	6	13.6	58.5	0.23	0.54	8.31	0.114	2.58	1.8
C304122		22.3	118.5	0.006	2.91	5.57	7.4	3	4.2	161.0	0.46	0.13	11.20	0.167	2.61	2.4
C304123		81.2	136.0	0.002	5.01	2.45	8.2	5	7.2	93.4	0.39	0.19	10.35	0.156	2.49	1.9
C304124		26.7	167.0	<0.002	3.17	4.02	9.0	2	7.0	139.5	0.49	0.16	12.75	0.181	2.86	2.3
C304125		25.6	99.6	0.093	4.81	2.75	11.2	3	5.2	330	0.53	0.24	9.75	0.223	2.03	2.4
C304126		33.5	115.5	<0.002	2.50	2.21	10.8	2	4.9	289	0.80	0.14	12.70	0.270	2.74	2.2
C304127		31.8	85.1	0.004	2.13	1.77	11.8	2	4.9	354	0.82	0.14	13.60	0.270	1.81	2.7
C304128		29.2	64.2	0.004	2.02	1.81	10.9	2	4.4	364	0.72	0.14	11.10	0.261	1.63	2.2
C304129		28.2	70.6	0.003	2.65	2.46	12.4	2	5.2	391	0.82	0.14	12.05	0.276	1.79	3.0
C304130		19.8	97.2	0.004	2.07	2.57	13.8	2	3.5	388	0.79	0.16	16.50	0.267	1.95	4.0
C304131		308	103.5	0.057	7.41	3.79	10.0	6	3.4	2590	0.37	0.80	9.67	0.137	1.79	2.5
C304132		80.7	157.0	0.022	3.79	7.74	8.6	3	3.5	170.0	0.46	0.12	10.70	0.197	3.17	2.4
C304133		137.0	181.5	<0.002	2.46	4.74	9.2	2	4.2	100.5	0.51	0.17	9.78	0.246	3.49	1.9
C304134		194.0	176.5	0.003	4.00	5.48	9.1	2	10.3	90.4	0.43	0.38	10.20	0.210	2.96	2.8
C304135		14.1	71.5	<0.002	0.78	10.75	5.5	1	1.9	188.5	0.71	0.19	8.08	0.328	1.95	5.9
C304136		76.0	96.1	0.007	2.44	30.4	7.6	2	4.6	96.8	0.58	0.48	8.88	0.332	2.02	4.0
C304137		1780	168.0	<0.002	3.43	45.6	9.2	1	5.9	80.8	0.47	0.20	10.80	0.210	2.57	4.1
C304138		206	183.5	<0.002	5.40	28.5	18.3	2	8.1	133.0	0.27	0.44	5.76	0.265	4.51	2.2
C304139		209	146.5	<0.002	5.43	29.8	18.4	2	8.2	133.0	0.27	0.44	5.17	0.268	4.73	2.2
C304140		85.6	170.5	<0.002	5.26	16.95	16.2	3	10.0	159.5	0.29	0.71	5.39	0.323	4.28	1.9
C304141		25.7	56.3	<0.002	3.02	3.21	21.7	2	4.5	616	0.27	0.83	4.39	0.434	1.80	2.5
C304142		25.2	59.0	<0.002	3.45	6.57	21.6	2	4.7	583	0.27	0.83	4.33	0.429	1.84	2.5
C304143		20.1	49.0	<0.002	1.69	2.29	22.9	1	3.8	714	0.29	0.39	4.67	0.486	1.32	2.3
C304144		111.5	67.2	<0.002	4.51	2.95	24.9	2	11.9	363	0.33	1.00	4.40	0.480	1.96	2.9
C304145		66.5	80.7	0.002	4.48	2.96	24.9	4	11.0	417	0.31	6.78	4.63	0.463	2.19	2.7
C304146		9190	112.5	0.002	>10.0	231	6.8	2	10.1	90.8	0.31	2.09	6.96	0.146	1.79	4.2
C304147		15.9	56.0	0.002	2.20	2.15	25.2	1	4.5	671	0.35	0.29	4.05	0.514	2.05	1.8
C304148		14.3	46.0	<0.002	1.95	3.20	24.6	2	3.7	717	0.33	0.39	3.93	0.507	1.69	1.9
C304149		12.9	58.7	<0.002	2.22	2.18	25.4	3	3.7	764	0.35	2.52	4.61	0.502	1.55	1.9
C304150		17.2	57.1	<0.002	1.70	1.60	24.8	2	3.5	666	0.36	0.35	4.67	0.508	1.61	1.9
C304151		11.2	80.9	<0.002	1.91	1.69	25.6	2	2.6	658	0.35	0.16	5.40	0.520	1.68	1.9
C304152		25.4	79.8	<0.002	2.25	1.83	24.7	2	4.3	627	0.32	0.31	6.02	0.542	1.75	2.3
C304153		11.4	92.9	<0.002	1.62	3.09	25.2	1	3.0	759	0.36	0.14	7.51	0.553	1.61	2.6
C304154		0.8	1.5	<0.002	0.02	0.10	0.2	1	<0.2	83.1	<0.05	<0.05	0.12	0.007	0.02	0.2
C304155		210	130.0	<0.002	4.74	5.94	30.7	1	7.5	324	0.38	0.88	8.24	0.467	2.11	3.6
C304156		43.2	122.5	<0.002	5.21	3.18	22.9	2	6.4	364	0.25	0.54	5.68	0.420	2.16	2.7

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 7-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20240084

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304117		106	7.3	10.6	39	7.5	0.065
C304118		98	7.1	10.2	43	6.8	0.031
C304119		84	8.1	8.5	46	6.1	0.045
C304120		85	7.8	10.4	43	6.2	0.061
C304121		57	9.3	6.8	191	6.0	0.104
C304122		51	5.8	9.1	47	9.5	0.029
C304123		70	7.1	7.4	218	7.9	0.024
C304124		65	7.9	9.7	49	8.6	0.041
C304125		100	5.9	12.9	52	11.4	0.069
C304126		108	7.3	10.9	63	12.4	0.021
C304127		95	6.0	13.9	56	12.6	0.030
C304128		98	5.0	13.0	52	10.1	0.030
C304129		104	5.4	15.4	59	10.8	0.093
C304130		78	4.9	14.8	48	12.4	0.047
C304131		66	4.5	10.3	259	9.5	0.051
C304132		63	5.5	12.3	99	10.0	0.038
C304133		78	6.2	10.2	175	8.1	0.022
C304134		81	8.9	8.9	396	23.4	0.142
C304135		59	2.4	9.7	96	153.5	0.046
C304136		71	5.1	12.1	204	135.0	0.074
C304137		63	5.5	11.9	2830	28.8	0.625
C304138		145	6.8	14.1	331	11.1	0.111
C304139		145	6.8	13.7	332	10.4	0.116
C304140		159	8.5	12.8	207	8.7	0.123
C304141		188	4.3	17.5	84	9.4	0.105
C304142		189	4.4	17.3	83	9.2	0.118
C304143		205	4.2	19.6	95	10.5	0.068
C304144		222	10.5	16.9	151	12.2	0.110
C304145		202	27.6	18.4	132	10.6	0.320
C304146		48	4.3	10.0	>10000	21.9	2.92
C304147		212	5.1	22.2	96	10.5	0.088
C304148		204	4.9	21.9	75	10.1	0.069
C304149		202	6.1	21.8	78	10.2	0.079
C304150		203	4.0	22.2	97	10.1	0.053
C304151		205	4.3	22.5	74	9.1	0.050
C304152		201	4.2	22.7	78	10.4	0.129
C304153		202	4.0	23.7	75	13.0	0.048
C304154		2	0.3	2.3	4	1.9	<0.005
C304155		206	11.3	23.1	386	16.0	0.680
C304156		178	9.3	17.4	107	13.0	0.274

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240084

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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VANCOUVER BC V6B 1L8

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE WH20240090

Project: Klaza

P.O. No.: Batch 73

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240090

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304157		8.04		0.48	7.77	14.4	1700	1.05	1.30	5.02	0.20	43.7	21.5	47	9.90	204
C304158		4.98		0.55	7.73	19.6	260	1.46	1.52	3.60	0.33	28.1	17.6	24	13.20	217
C304159		8.81		0.84	7.85	42.7	560	1.32	1.53	3.83	1.57	29.6	18.7	21	19.80	116.5
C304160		5.53		0.53	7.34	30.3	290	1.47	1.83	3.69	0.47	35.7	19.7	15	13.80	70.1
C304161		0.26		9.91	6.61	1980	220	1.43	5.82	1.75	36.5	45.9	11.8	29	16.75	194.0
C304162		3.42		1.45	7.22	401	140	1.39	2.60	3.55	5.12	36.6	31.7	16	14.80	27.7
C304163		9.69		1.47	7.73	95.5	130	1.16	5.44	1.19	7.95	26.5	23.8	16	5.64	16.6
C304164		5.70		2.34	7.13	95.6	80	0.85	10.80	1.41	9.69	15.15	32.9	18	5.48	24.7
C304165		0.26	1.470	93.7	4.55	4010	110	0.93	52.5	1.54	195.5	29.1	59.5	36	9.91	1250
C304166		5.87		3.57	7.53	90.7	240	1.20	7.22	2.85	5.40	32.3	19.0	16	12.05	452
C304167		6.85		0.46	8.24	21.4	210	1.25	4.68	3.81	0.40	45.1	22.6	18	12.40	95.4
C304168		9.46		2.32	7.49	58.2	140	1.10	24.0	3.07	3.19	37.5	19.9	15	12.10	586
C304169		8.39		0.64	7.41	45.0	60	1.06	4.43	2.66	1.05	24.5	24.2	27	11.00	31.7
C304170		5.18		0.01	0.11	0.7	20	0.08	0.04	33.0	0.02	0.98	0.5	2	0.06	2.5
C304171		8.84		0.23	8.05	8.9	510	1.13	1.17	3.57	0.35	35.5	16.3	29	10.00	92.3
C304172		8.48		0.32	7.89	21.7	1090	1.32	0.77	4.17	0.44	40.5	15.3	24	10.90	61.9
C304173		3.39		0.41	8.13	25.9	720	1.33	1.02	4.17	0.61	42.4	16.0	26	11.65	67.2
C304174		9.71		0.58	7.47	31.6	340	1.30	2.20	3.26	1.94	32.4	14.7	25	12.30	85.0
C304175		8.74		0.34	7.92	25.3	1340	1.17	1.56	4.26	0.22	35.2	17.1	28	9.50	74.5
C304176		6.81		0.17	7.73	6.5	960	1.41	1.67	3.46	0.10	25.3	12.1	19	6.87	92.9
C304177		8.49		0.16	7.51	5.8	520	1.41	2.41	3.31	0.34	30.7	9.3	22	8.16	41.0
C304178		9.15		0.61	7.90	25.4	270	1.17	2.92	1.69	3.09	33.9	8.8	13	8.95	41.0
C304179		6.31		1.60	7.53	69.8	50	0.95	12.50	1.42	1.54	22.9	16.2	15	10.45	57.9
C304180		5.89		0.37	7.11	15.3	120	1.22	3.93	3.95	0.23	41.9	15.5	14	12.85	33.6
C304181		5.10		0.44	7.13	26.3	210	1.38	1.77	2.29	2.17	50.2	13.5	12	34.6	21.8
C304182		5.87		0.95	4.91	140.0	30	0.52	7.96	1.47	0.74	22.9	22.1	12	4.17	419
C304183		<0.02		0.97	4.94	144.0	40	0.49	7.30	1.45	0.62	24.8	22.7	15	4.08	412
C304184		7.63		0.37	7.53	21.9	210	1.04	2.31	1.05	1.84	39.5	23.4	13	4.75	16.0
C304185		9.09		0.45	7.43	13.9	70	1.38	2.28	2.35	0.51	43.3	25.7	18	9.58	28.7
C304186		8.06		0.14	7.73	6.4	200	1.43	1.42	2.49	0.11	50.7	11.4	15	8.12	32.0
C304187		9.35		0.43	7.43	17.8	290	1.20	1.90	1.51	0.65	53.3	14.6	15	7.14	101.0
C304188		5.38		0.14	7.62	6.2	560	1.32	1.09	2.47	0.10	44.6	10.3	12	8.91	16.0
C304189		5.86		0.18	7.61	9.3	240	1.47	2.24	2.42	0.15	41.7	21.2	16	8.08	27.7
C304190		8.46		0.24	7.46	10.0	230	1.28	1.68	2.30	0.15	21.3	23.8	12	8.89	31.8
C304191		6.92		0.13	7.68	5.1	1200	1.25	0.60	2.58	0.16	50.7	9.0	15	8.11	38.3
C304192		7.49		0.48	7.55	17.2	360	1.28	1.13	2.78	2.22	44.9	8.8	12	9.27	38.1
C304193		9.22		0.16	7.76	6.5	1250	1.34	0.54	2.70	0.15	43.8	12.0	24	7.81	76.4
C304194		8.49		0.61	7.49	37.0	160	1.07	3.41	1.09	3.01	29.8	12.2	12	7.63	16.7
C304195		8.91		0.12	7.32	4.8	950	1.24	0.65	2.80	0.25	39.8	6.8	13	9.77	22.2
C304196		5.83		0.27	7.38	37.6	950	1.33	0.58	3.03	0.34	39.8	6.5	14	10.55	105.0

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Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240090

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304157		6.34	15.55	0.12	0.6	0.166	1.97	21.7	17.3	2.60	739	2.23	1.35	5.5	23.1	1640
C304158		5.80	16.55	0.10	0.5	0.167	2.00	13.2	20.9	1.72	563	2.40	1.23	3.8	14.2	1050
C304159		5.26	18.10	0.10	0.5	0.104	2.86	14.4	18.3	1.61	1380	3.75	0.31	3.9	10.5	1350
C304160		5.62	17.75	0.10	0.5	0.097	2.92	16.9	18.3	1.80	946	1.01	0.50	3.2	9.4	1520
C304161		5.97	13.95	0.09	1.0	0.698	2.91	24.3	39.4	0.74	1990	9.19	0.07	6.1	16.7	510
C304162		8.39	15.95	0.09	0.5	0.107	3.47	19.2	6.6	1.63	5650	5.54	0.04	3.0	10.5	1410
C304163		7.85	20.6	0.07	0.4	0.440	3.98	12.8	5.9	0.91	1040	7.28	0.06	2.2	9.0	1360
C304164		9.69	22.4	0.07	0.4	0.407	3.58	6.4	7.0	1.03	1160	19.80	0.06	2.0	10.2	1140
C304165		11.60	10.85	<0.05	0.7	4.49	1.98	14.0	28.8	0.53	1870	17.15	0.15	4.2	14.8	370
C304166		6.59	20.7	0.10	0.4	0.598	3.55	15.5	12.1	1.25	1010	1.48	0.06	3.1	11.4	1480
C304167		7.12	20.4	0.14	0.5	0.133	2.16	23.0	24.5	2.25	451	1.49	1.11	4.9	11.0	1620
C304168		7.60	21.4	0.12	0.5	0.292	3.35	18.1	12.7	1.33	527	2.35	0.09	3.9	9.9	1480
C304169		9.17	19.40	0.11	0.4	0.130	2.93	10.7	15.8	1.71	414	6.14	0.32	4.1	14.0	1250
C304170		0.14	0.34	0.07	<0.1	<0.005	0.03	1.0	1.0	1.34	90	0.07	0.04	0.2	0.5	60
C304171		5.60	17.80	0.10	0.5	0.069	1.95	18.3	22.3	2.40	386	5.17	1.41	5.8	14.1	1370
C304172		5.15	17.00	0.10	0.5	0.121	1.99	19.5	17.7	1.72	709	4.73	1.17	6.6	12.3	1370
C304173		5.57	17.05	0.11	0.5	0.123	2.18	20.7	17.0	1.78	777	5.68	1.05	6.5	13.0	1360
C304174		5.21	16.95	0.11	0.5	0.118	2.54	15.7	15.1	1.38	759	4.12	0.75	5.3	11.0	1220
C304175		5.80	16.80	0.10	0.5	0.125	1.65	17.3	18.6	2.07	649	4.65	1.42	6.0	13.1	1400
C304176		4.55	16.70	0.09	0.4	0.073	1.26	12.9	18.7	1.76	273	5.76	1.80	6.3	8.6	1020
C304177		3.86	15.55	0.11	0.3	0.033	1.69	17.3	13.3	0.94	244	10.80	1.52	5.5	4.8	550
C304178		4.34	17.75	0.12	0.4	0.132	3.24	18.5	7.3	0.74	343	33.5	0.26	5.1	4.0	570
C304179		9.80	18.15	0.15	0.4	0.135	3.55	10.1	5.6	0.61	277	23.3	0.06	2.8	6.0	650
C304180		4.84	15.40	0.11	0.5	0.036	2.22	20.8	20.9	0.81	386	8.06	0.39	4.7	5.7	950
C304181		4.87	14.30	0.11	0.4	0.166	2.91	26.7	14.9	0.85	281	24.4	0.12	3.8	4.6	500
C304182		12.35	13.30	0.11	0.2	0.093	2.47	10.4	6.1	0.48	112	10.45	0.06	1.4	4.3	330
C304183		12.45	13.30	0.12	0.3	0.092	2.50	12.0	6.2	0.48	144	11.20	0.06	1.6	4.9	340
C304184		5.31	18.30	0.11	0.4	0.157	3.68	20.8	7.4	0.79	130	1.96	0.11	2.1	4.8	670
C304185		6.97	15.30	0.12	0.5	0.054	2.81	21.6	19.7	1.65	325	3.59	0.88	3.8	6.6	1170
C304186		4.82	15.50	0.14	0.4	0.039	2.02	27.4	16.3	1.49	209	1.60	1.74	4.0	4.8	880
C304187		5.83	14.90	0.13	0.3	0.072	3.45	30.6	8.9	0.81	200	8.12	0.26	3.4	5.1	570
C304188		3.68	13.80	0.13	0.3	0.038	2.46	24.4	15.3	1.00	170	12.50	1.41	4.7	3.6	570
C304189		4.40	14.25	0.12	0.4	0.031	2.23	22.0	14.8	1.21	146	3.62	1.67	4.1	4.8	850
C304190		4.09	13.40	0.10	0.3	0.038	2.96	10.1	15.4	1.01	168	18.65	0.88	3.3	4.2	580
C304191		2.98	14.65	0.14	0.4	0.031	2.18	28.2	15.1	1.07	171	8.78	1.82	5.6	3.9	520
C304192		3.90	14.60	0.14	0.3	0.050	2.45	24.0	14.2	0.97	241	5.45	1.16	5.4	4.1	510
C304193		3.44	16.10	0.11	0.4	0.039	2.11	23.4	16.6	1.03	217	18.75	1.73	6.7	5.5	530
C304194		6.72	14.90	0.12	0.3	0.267	3.53	15.6	5.2	0.58	207	27.4	0.08	3.3	4.4	460
C304195		3.29	13.85	0.11	0.4	0.041	2.21	21.5	14.2	0.82	254	1.69	1.02	5.1	3.9	500
C304196		3.34	14.85	0.11	0.4	0.054	2.35	20.6	14.1	0.85	478	2.02	0.97	6.0	3.9	510

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240090

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304157		12.3	88.6	<0.002	1.97	2.57	24.3	1	3.2	627	0.33	0.34	6.46	0.516	1.99	2.6
C304158		16.2	56.5	<0.002	3.23	3.99	16.2	2	3.5	501	0.29	0.36	5.24	0.276	2.26	2.5
C304159		130.0	105.5	<0.002	3.72	6.24	18.0	3	11.2	491	0.27	0.44	5.10	0.340	3.14	3.5
C304160		33.4	95.9	<0.002	4.63	6.12	18.4	2	14.0	272	0.29	0.70	5.69	0.378	3.26	2.8
C304161		1770	168.0	<0.002	3.45	47.2	9.1	1	5.9	80.8	0.49	0.24	11.75	0.212	2.66	4.2
C304162		409	193.5	0.002	8.27	11.75	19.0	3	15.9	96.6	0.26	0.96	7.17	0.324	3.84	3.3
C304163		292	177.0	0.002	8.27	4.08	19.0	4	33.4	45.4	0.15	2.16	5.64	0.259	2.58	2.0
C304164		325	152.5	0.002	9.70	3.68	17.4	6	34.2	49.9	0.16	5.73	5.19	0.238	2.17	2.3
C304165		9280	111.5	0.002	>10.0	230	6.6	2	10.2	90.0	0.31	1.97	6.82	0.144	1.83	4.3
C304166		245	145.5	0.002	6.25	11.35	19.1	3	28.6	102.5	0.21	1.17	6.03	0.330	3.24	2.6
C304167		29.1	81.0	0.004	4.19	2.47	20.9	1	15.5	480	0.35	2.49	6.48	0.452	2.05	2.8
C304168		84.2	125.5	0.005	7.15	2.87	17.8	3	29.5	1700	0.32	12.55	6.54	0.341	2.64	2.6
C304169		49.1	102.0	0.006	8.45	2.04	15.7	5	24.2	171.5	0.33	1.81	7.39	0.280	2.07	3.8
C304170		0.7	0.9	<0.002	0.02	0.08	0.2	1	0.2	77.5	<0.05	<0.05	0.08	<0.005	<0.02	0.1
C304171		26.7	67.1	0.005	2.82	1.45	17.1	2	10.2	521	0.45	0.52	6.49	0.396	1.69	2.4
C304172		45.7	67.0	0.004	2.23	3.18	17.6	1	6.7	527	0.51	0.30	5.86	0.404	2.02	2.4
C304173		68.0	82.3	0.005	2.71	3.54	17.8	1	8.1	477	0.49	0.35	6.40	0.393	2.14	2.6
C304174		146.0	75.9	0.004	3.54	6.50	15.3	3	9.9	342	0.43	0.99	5.25	0.347	2.53	2.1
C304175		20.5	52.3	0.004	2.24	1.94	18.6	1	4.9	570	0.48	0.68	6.06	0.428	1.61	2.3
C304176		10.0	37.0	0.004	1.79	0.96	14.7	1	3.4	513	0.46	0.82	6.21	0.336	1.29	1.8
C304177		25.3	64.0	0.004	2.46	1.31	9.8	1	4.7	360	0.42	1.09	9.44	0.232	1.17	2.6
C304178		178.5	134.0	0.008	4.22	6.77	9.7	2	18.4	96.8	0.45	0.92	9.95	0.207	2.33	2.1
C304179		157.5	135.0	0.010	>10.0	22.2	11.9	16	24.0	76.9	0.22	2.04	6.41	0.163	2.24	2.4
C304180		27.6	69.1	0.019	4.69	10.50	12.6	4	4.1	270	0.34	0.97	6.96	0.250	1.80	3.6
C304181		87.8	125.0	0.049	4.62	4.56	10.1	3	11.8	139.5	0.31	0.37	10.20	0.167	2.05	6.4
C304182		26.0	100.5	0.008	>10.0	2.02	6.9	5	6.5	35.8	0.13	1.36	4.99	0.086	1.12	1.3
C304183		25.9	103.0	0.009	>10.0	2.13	7.0	5	6.6	35.4	0.15	0.97	5.36	0.093	1.07	1.3
C304184		56.4	161.5	0.006	5.56	1.15	11.2	2	18.4	40.6	0.16	0.70	9.25	0.140	1.99	2.0
C304185		57.9	86.5	0.015	6.97	2.18	15.6	2	7.0	322	0.25	0.68	7.20	0.239	2.01	1.9
C304186		9.3	72.5	0.005	4.55	1.20	12.7	1	4.3	347	0.28	0.32	9.16	0.222	1.39	2.4
C304187		44.1	147.5	0.027	5.77	2.19	9.8	3	11.8	74.0	0.28	0.54	10.20	0.147	1.95	1.9
C304188		12.5	91.6	0.039	3.63	1.45	9.4	2	6.0	249	0.40	0.17	9.96	0.186	1.52	2.1
C304189		10.5	76.6	0.007	4.04	1.18	11.7	2	4.4	305	0.31	0.28	8.31	0.199	1.43	2.3
C304190		13.6	121.0	0.036	4.02	1.26	9.8	2	4.2	184.5	0.28	0.29	9.45	0.158	1.90	2.5
C304191		14.3	75.5	0.017	1.98	0.92	10.0	1	3.4	352	0.46	0.09	11.30	0.226	1.27	3.6
C304192		120.5	89.0	0.007	3.08	1.20	10.3	2	6.6	279	0.44	0.26	9.96	0.235	1.49	3.2
C304193		16.5	73.7	0.016	1.90	3.82	10.9	1	4.2	375	0.51	0.11	10.35	0.272	1.42	2.8
C304194		120.0	136.5	0.021	7.14	2.01	9.7	6	21.6	50.5	0.30	1.43	10.25	0.146	1.94	2.1
C304195		22.1	81.0	0.004	2.33	1.87	9.3	1	3.8	264	0.47	0.15	10.45	0.216	1.66	3.6
C304196		26.7	91.5	0.002	2.19	24.5	9.6	1	3.5	337	0.49	0.12	10.60	0.237	2.05	2.5

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240090

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304157		192	4.4	21.4	80	13.5	0.101
C304158		140	3.9	12.5	80	9.7	0.138
C304159		152	14.8	13.8	193	11.5	0.478
C304160		185	12.5	14.2	97	15.6	0.218
C304161		63	5.6	12.0	2840	28.9	0.633
C304162		161	19.4	16.2	489	13.2	0.391
C304163		164	23.8	10.0	707	9.7	0.157
C304164		153	24.4	8.2	842	9.4	0.476
C304165		48	4.2	9.7	>10000	22.2	2.75
C304166		176	17.8	12.2	453	9.8	0.184
C304167		200	7.5	16.2	84	13.5	0.156
C304168		171	17.5	11.4	296	14.1	0.630
C304169		139	14.0	9.8	134	11.0	0.377
C304170		1	0.1	1.9	4	1.3	<0.005
C304171		160	9.0	13.4	76	12.5	0.286
C304172		159	9.4	15.7	88	11.8	0.128
C304173		161	9.9	16.5	104	12.1	0.106
C304174		147	8.4	11.6	201	12.0	0.246
C304175		168	6.6	16.5	69	13.5	0.129
C304176		131	4.8	10.0	45	10.5	0.089
C304177		80	12.1	8.4	48	8.1	0.395
C304178		92	21.5	8.1	262	8.7	0.098
C304179		106	11.8	7.4	130	12.5	0.072
C304180		115	5.2	12.7	38	16.5	0.078
C304181		79	8.0	9.5	204	10.0	0.113
C304182		69	4.8	5.4	61	6.5	2.81
C304183		69	5.2	5.9	52	6.5	2.71
C304184		98	10.1	7.4	158	11.3	0.053
C304185		133	6.8	12.7	75	15.4	0.076
C304186		111	4.3	11.2	38	11.9	0.127
C304187		80	8.0	8.8	60	8.1	0.190
C304188		79	9.1	9.7	32	8.1	0.183
C304189		97	5.0	10.3	34	11.1	0.070
C304190		78	5.5	8.5	32	8.7	0.069
C304191		72	5.1	10.5	31	9.4	0.047
C304192		82	9.2	10.7	224	7.7	0.182
C304193		93	5.6	10.7	37	9.6	0.097
C304194		78	8.3	6.8	229	8.5	0.148
C304195		80	4.7	9.4	36	9.2	0.029
C304196		84	4.4	9.9	51	8.9	0.031

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 7-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240090

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE WH20240093

Project: Klaza

P.O. No.: bATCH 74

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240093

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304601		0.69		0.14	7.13	42.9	1450	1.95	0.17	2.75	0.17	55.0	6.4	25	18.70	14.6
C304602		1.08		2.66	7.07	1095	280	1.47	3.15	1.13	5.13	36.8	8.9	11	14.80	36.9
C304603		1.23		0.10	7.53	40.2	1840	1.90	0.17	2.18	0.13	61.8	7.4	25	19.35	10.2
C304604		1.10		1.66	6.97	89.7	1490	1.94	2.89	2.71	3.16	50.5	6.7	12	29.0	27.6
C304605		6.15		0.14	7.07	23.3	1180	1.84	0.12	3.36	0.08	47.1	6.0	10	22.0	6.5
C304606		4.99		0.22	6.80	44.0	1500	1.59	0.16	3.25	0.08	46.1	6.3	10	20.4	7.2
C304607		0.26		9.50	6.69	1940	560	1.48	5.95	1.75	38.4	49.4	10.4	29	16.60	199.0
C304608		2.66		0.35	7.33	37.4	2390	1.87	0.40	3.11	0.61	54.7	6.5	11	26.1	11.9
C304609		2.17		0.28	7.48	28.8	1180	1.68	0.32	2.25	0.49	48.8	6.8	10	28.8	9.7
C304610		3.20		0.08	6.92	10.9	2170	1.43	0.18	3.04	0.19	49.2	6.6	12	13.45	6.0
C304611		3.53		0.06	7.30	7.7	2390	1.35	0.17	2.60	0.15	52.5	7.3	11	13.25	4.7
C304612		1.92		0.15	7.25	22.8	2550	1.53	0.27	2.47	0.15	45.8	6.8	13	16.10	8.8
C304613		<0.02		0.19	7.32	23.7	2590	1.57	0.34	2.47	0.14	49.1	6.6	12	15.95	8.6
C304614		2.45		0.08	7.29	9.1	2160	1.53	0.16	2.63	0.20	42.3	6.1	13	16.80	7.4
C304615		3.54		0.08	7.59	9.0	2280	1.50	0.15	2.70	0.16	57.8	7.4	13	12.35	8.3
C304616		6.82		0.11	7.34	9.5	2500	1.53	0.11	2.50	0.16	45.0	7.1	15	8.14	9.3
C304617		4.15		0.10	7.67	9.1	2420	1.57	0.10	2.76	0.18	49.8	7.0	13	8.58	7.2
C304618		3.28		0.08	7.69	8.8	2350	1.52	0.07	2.85	0.21	51.5	7.1	15	8.93	4.3
C304619		2.66		0.11	7.29	12.9	2420	1.62	0.16	2.76	0.22	47.0	6.5	11	9.60	7.4
C304620		0.51		0.09	7.29	10.2	2360	1.56	0.26	3.04	0.14	50.0	6.6	14	10.85	9.6
C304621		0.45		0.11	7.43	8.9	2300	1.58	0.28	3.04	0.17	47.7	9.7	11	11.30	8.6
C304622		1.04		0.06	7.27	13.2	2420	1.52	0.23	2.76	0.16	46.8	8.1	13	16.55	9.6
C304623		2.94		0.14	7.56	11.8	1930	1.90	0.14	2.65	0.21	44.7	6.7	12	25.3	7.8
C304624		5.26		0.08	7.36	11.2	2260	1.54	0.14	2.60	0.16	43.6	6.9	14	8.04	6.6
C304625		4.85		0.11	7.79	11.7	2320	1.57	0.28	2.61	0.20	50.2	6.8	13	7.82	10.8
C304626		5.27		0.33	7.40	22.3	2150	1.70	0.24	2.80	0.27	45.7	6.8	14	8.61	8.3
C304627		0.26	1.465	91.8	4.64	3870	1670	0.95	51.5	1.49	194.0	34.0	57.2	34	9.52	1270
C304628		5.05		0.15	7.74	13.2	2240	1.76	0.23	2.57	0.33	54.8	7.7	14	6.28	9.6
C304629		3.33		0.12	7.54	11.4	2310	1.62	0.15	2.45	0.19	53.0	6.9	12	8.55	13.4
C304630		2.58		0.18	7.22	9.6	2550	1.68	0.24	2.59	0.23	43.3	7.4	14	11.10	11.1
C304631		0.91		0.84	6.41	110.0	1460	1.36	0.24	5.06	0.32	45.5	7.4	8	18.00	6.1
C304632		2.70		0.08	7.58	7.8	2270	1.72	0.17	2.63	0.26	49.1	7.0	14	11.25	6.8
C304633		5.32		0.32	7.77	20.5	2040	1.49	0.34	2.63	1.76	51.0	7.3	12	16.55	12.0
C304634		5.39		0.12	7.51	10.7	2180	1.46	0.24	2.60	0.31	52.0	6.7	14	8.47	11.8
C304635		5.10		0.12	7.81	15.8	2350	1.60	0.27	2.33	0.30	61.6	7.4	13	6.54	6.7
C304636		7.28		0.13	7.82	12.6	2320	1.58	0.17	2.52	0.35	56.0	7.1	15	5.61	6.5
C304637		6.83		0.19	7.75	12.6	2250	1.69	0.14	2.61	0.37	51.1	7.3	12	7.02	6.7
C304638		5.10		0.01	0.15	0.8	30	0.13	0.01	32.6	0.02	1.11	0.5	2	0.05	1.2
C304639		4.62		0.15	7.05	17.6	1940	1.85	0.23	2.83	0.15	43.5	6.4	11	8.68	5.8
C304640		5.34		0.15	7.70	9.8	2200	1.73	0.22	2.88	0.27	50.5	7.4	12	10.35	8.8

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 10-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20240093

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304601		2.73	18.10	0.13	3.5	0.039	2.92	28.0	196.0	1.01	719	3.26	0.05	10.4	7.4	1340
C304602		5.77	15.75	0.13	0.9	0.241	3.28	18.7	23.6	0.73	1700	1.75	0.04	4.6	3.8	600
C304603		3.01	18.85	0.12	3.6	0.039	2.81	31.1	162.0	1.11	747	1.30	0.05	10.7	8.0	1380
C304604		2.63	16.85	0.12	3.0	0.061	2.70	27.6	117.0	0.90	964	6.04	0.04	9.0	4.6	720
C304605		2.42	17.75	0.15	2.9	0.030	3.20	23.9	97.4	1.01	684	1.46	0.04	9.6	4.1	720
C304606		2.62	16.50	0.20	3.1	0.032	3.09	23.0	78.1	0.95	773	2.91	0.03	9.6	4.4	710
C304607		5.88	14.90	0.19	1.1	0.703	2.90	26.2	41.7	0.75	2000	9.50	0.06	6.5	16.4	520
C304608		2.78	18.00	0.23	3.8	0.033	3.21	27.3	102.5	1.00	741	2.12	0.03	10.2	4.4	770
C304609		2.79	15.90	0.25	1.2	0.053	3.25	25.4	400	0.75	871	3.76	0.11	7.9	2.6	650
C304610		3.16	15.00	0.24	1.0	0.047	2.80	25.0	42.2	0.86	859	3.12	1.27	7.4	2.7	620
C304611		3.00	15.15	0.24	0.9	0.040	2.92	27.7	44.1	0.78	712	1.53	1.75	7.4	2.5	600
C304612		3.94	16.10	0.21	1.0	0.052	2.98	23.9	95.1	0.83	1040	15.50	1.32	7.9	2.7	610
C304613		3.77	15.85	0.23	1.1	0.060	2.97	25.2	98.1	0.83	1000	8.47	1.33	7.8	2.4	620
C304614		4.09	15.75	0.21	1.0	0.058	2.80	20.9	94.2	0.84	1040	1.18	1.61	8.1	2.9	640
C304615		2.99	16.20	0.24	1.0	0.042	2.64	30.8	18.3	0.77	669	15.20	2.31	8.0	2.6	600
C304616		3.22	15.95	0.19	1.0	0.041	2.64	22.7	19.8	0.86	721	2.08	2.35	8.1	3.1	620
C304617		3.14	16.35	0.20	1.0	0.037	2.75	24.5	20.4	0.87	789	1.90	2.48	8.2	2.7	650
C304618		3.32	16.10	0.24	1.2	0.039	2.71	26.4	20.9	0.81	804	1.91	2.38	7.9	3.0	620
C304619		2.99	16.20	0.21	1.1	0.051	2.59	24.1	21.6	0.73	692	3.37	2.29	8.1	2.6	600
C304620		3.35	15.95	0.19	1.1	0.048	2.65	25.6	20.3	0.78	744	3.69	2.20	8.1	3.1	610
C304621		3.25	16.35	0.19	1.1	0.051	2.73	23.6	20.3	0.74	708	0.86	2.29	8.0	2.5	610
C304622		3.18	15.90	0.20	1.0	0.041	2.69	23.5	53.3	0.70	676	1.35	2.00	7.8	3.1	610
C304623		2.94	16.60	0.20	1.1	0.044	2.78	22.5	335	0.66	716	1.21	1.50	8.3	2.6	640
C304624		3.27	16.05	0.20	1.1	0.039	2.64	21.8	17.4	0.82	702	1.12	2.44	8.2	3.0	620
C304625		2.95	16.35	0.21	1.1	0.040	2.74	26.4	16.4	0.77	658	0.74	2.43	8.1	2.6	630
C304626		3.31	16.65	0.20	1.1	0.041	2.71	23.2	13.4	0.78	954	1.17	2.28	8.5	3.1	630
C304627		11.25	11.55	0.16	0.7	4.41	1.92	17.2	29.8	0.53	1860	17.90	0.15	4.4	14.5	360
C304628		3.32	16.95	0.15	1.2	0.043	2.63	28.6	14.7	0.85	801	1.90	2.53	8.9	3.2	630
C304629		2.97	16.25	0.18	1.2	0.036	2.69	26.6	15.9	0.84	729	1.07	2.37	8.1	2.7	610
C304630		3.35	15.85	0.16	1.1	0.037	2.66	21.3	17.7	0.75	717	1.40	2.00	8.5	3.1	610
C304631		3.35	13.75	0.18	1.1	0.032	2.51	24.7	21.7	1.33	2860	1.20	0.24	7.5	2.3	500
C304632		3.30	16.30	0.18	1.0	0.038	2.76	24.3	16.6	0.82	787	0.60	2.40	8.7	3.0	620
C304633		3.22	16.20	0.20	0.9	0.053	2.84	26.1	22.8	0.76	987	0.47	1.52	8.2	2.9	650
C304634		3.36	16.15	0.20	0.9	0.043	2.64	26.3	16.0	0.82	820	1.08	2.43	8.3	3.1	660
C304635		3.15	16.35	0.22	0.9	0.038	2.76	33.3	16.1	0.89	803	0.61	2.64	8.1	2.7	630
C304636		3.30	16.40	0.21	1.0	0.038	2.68	29.9	14.9	0.90	951	0.87	2.51	8.3	2.9	620
C304637		3.08	16.60	0.21	1.1	0.043	2.66	27.1	18.3	0.88	903	1.61	2.42	8.7	2.7	630
C304638		0.14	0.52	0.17	0.1	<0.005	0.05	1.2	1.4	1.64	113	0.14	0.07	0.4	0.6	70
C304639		2.76	15.55	0.21	1.4	0.036	2.68	21.2	16.9	0.67	964	1.30	2.25	9.2	2.3	540
C304640		3.01	16.85	0.25	1.1	0.039	2.70	25.0	18.3	0.77	833	0.87	2.21	8.7	2.7	600

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240093

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304601		10.7	88.6	<0.002	0.11	10.70	5.8	<1	1.4	342	0.62	<0.05	7.12	0.365	2.16	6.3
C304602		398	188.5	0.002	4.10	12.50	9.2	1	6.2	97.6	0.36	0.20	9.81	0.194	3.00	4.3
C304603		11.5	99.5	<0.002	0.14	9.16	6.1	<1	1.5	258	0.70	<0.05	7.56	0.369	2.16	5.2
C304604		127.5	147.0	<0.002	0.41	32.4	6.9	<1	1.9	314	0.66	<0.05	8.84	0.286	2.70	7.0
C304605		15.6	166.5	<0.002	0.17	17.85	6.8	<1	1.4	278	0.72	<0.05	8.54	0.277	3.46	5.3
C304606		22.1	143.0	<0.002	0.37	23.1	6.2	<1	1.6	278	0.69	<0.05	7.88	0.264	3.46	4.8
C304607		1810	161.0	<0.002	3.48	54.1	8.7	1	6.8	80.1	0.51	0.17	11.00	0.207	2.74	4.4
C304608		37.7	171.0	<0.002	0.33	24.7	7.4	<1	1.6	269	0.72	<0.05	8.88	0.298	3.33	5.8
C304609		35.4	130.5	<0.002	0.43	15.60	10.0	1	1.9	206	0.58	<0.05	11.15	0.260	2.85	3.3
C304610		17.9	107.5	<0.002	0.36	5.50	9.6	1	2.0	307	0.56	<0.05	11.95	0.238	1.64	4.0
C304611		15.9	108.0	<0.002	0.37	3.20	9.6	<1	1.7	465	0.53	<0.05	12.70	0.245	1.45	3.5
C304612		15.2	108.5	<0.002	0.59	6.50	10.1	<1	2.1	317	0.57	0.05	10.25	0.255	1.77	3.2
C304613		15.4	111.0	<0.002	0.60	6.43	9.9	1	2.2	319	0.57	0.07	12.05	0.253	1.82	3.5
C304614		16.7	94.5	<0.002	0.11	5.49	10.3	<1	2.0	321	0.57	<0.05	9.84	0.280	1.50	3.7
C304615		16.7	102.5	<0.002	0.17	1.81	10.2	1	1.8	397	0.57	<0.05	12.85	0.250	1.06	4.2
C304616		18.7	89.3	<0.002	0.13	1.67	9.8	1	1.8	433	0.57	<0.05	10.75	0.257	1.01	3.4
C304617		19.2	90.9	<0.002	0.10	1.36	10.3	<1	1.8	423	0.59	<0.05	11.35	0.270	1.01	3.7
C304618		22.6	95.0	<0.002	0.04	1.39	10.2	<1	1.7	415	0.63	<0.05	13.60	0.259	0.97	4.0
C304619		22.1	91.9	<0.002	0.29	1.79	9.7	<1	2.0	395	0.63	<0.05	10.85	0.252	1.06	3.4
C304620		16.6	104.5	0.002	0.71	2.22	10.3	<1	2.1	397	0.57	0.06	11.60	0.256	1.14	3.7
C304621		17.3	93.9	<0.002	0.79	2.28	9.5	<1	2.1	410	0.59	0.07	12.15	0.256	1.12	3.6
C304622		17.4	101.0	<0.002	0.53	3.86	9.7	1	1.8	366	0.57	0.07	10.90	0.253	1.12	3.3
C304623		25.8	99.5	<0.002	0.23	9.81	10.3	<1	2.0	341	0.62	<0.05	13.45	0.266	1.28	3.8
C304624		18.9	88.0	<0.002	0.22	1.28	9.9	1	1.8	471	0.59	<0.05	10.35	0.263	1.04	3.5
C304625		20.9	106.5	<0.002	0.49	1.61	10.4	1	1.9	460	0.61	0.06	12.60	0.257	1.14	4.2
C304626		20.1	93.0	0.002	0.13	2.16	10.2	<1	1.9	387	0.65	0.15	11.70	0.261	1.16	3.8
C304627		9130	111.5	<0.002	>10.0	234	6.5	2	11.2	94.8	0.32	1.97	7.31	0.140	1.80	4.4
C304628		25.2	101.5	<0.002	0.12	1.43	11.0	<1	2.2	456	0.68	<0.05	13.50	0.260	0.97	4.8
C304629		21.7	103.5	<0.002	0.23	1.27	10.2	<1	1.8	450	0.61	0.05	12.10	0.254	1.05	4.1
C304630		19.4	94.0	<0.002	0.63	3.20	10.1	<1	1.8	420	0.69	0.11	12.80	0.254	1.06	4.4
C304631		32.1	112.0	<0.002	0.52	8.35	8.7	<1	1.8	189.5	0.77	0.05	12.65	0.201	1.71	6.0
C304632		22.4	96.8	0.003	0.17	1.18	10.3	1	1.8	418	0.75	<0.05	11.85	0.259	1.10	4.4
C304633		36.2	109.5	<0.002	0.33	6.77	10.5	<1	1.8	337	0.66	0.05	11.55	0.267	1.45	3.8
C304634		22.9	96.9	<0.002	0.30	1.27	10.5	<1	1.9	460	0.61	0.05	12.10	0.264	1.12	4.1
C304635		22.8	106.0	0.002	0.55	1.33	10.7	1	1.7	2850	0.62	0.06	15.00	0.254	1.05	4.7
C304636		26.3	99.2	<0.002	0.06	1.18	10.7	<1	1.6	491	0.64	<0.05	13.05	0.262	0.89	4.2
C304637		24.6	98.1	<0.002	0.09	1.51	10.7	<1	1.7	472	0.66	<0.05	13.50	0.261	0.91	4.8
C304638		1.0	1.5	0.002	<0.01	0.09	0.2	1	<0.2	80.6	0.08	<0.05	0.15	0.007	<0.02	0.2
C304639		24.9	106.5	<0.002	0.21	2.25	8.7	<1	2.1	353	0.93	<0.05	14.55	0.229	1.10	6.2
C304640		23.9	105.0	<0.002	0.16	1.50	10.5	<1	1.8	389	0.66	<0.05	12.85	0.252	0.94	4.7

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Finalized Date: 10-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20240093

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304601		67	1.5	11.4	78	155.0	<0.005
C304602		68	5.8	8.3	518	27.2	0.062
C304603		68	1.3	10.8	73	153.5	<0.005
C304604		64	5.4	13.8	290	118.5	0.025
C304605		64	4.9	12.8	57	117.0	<0.005
C304606		64	7.3	11.4	63	108.5	<0.005
C304607		63	6.1	10.9	2890	28.1	0.596
C304608		72	6.9	13.8	102	132.5	0.007
C304609		72	3.8	12.0	80	25.6	0.008
C304610		68	2.4	15.0	60	23.1	<0.005
C304611		68	1.6	15.2	54	20.0	<0.005
C304612		72	3.6	14.2	61	22.5	0.005
C304613		72	3.5	14.4	61	23.2	0.006
C304614		81	3.8	15.3	67	21.4	<0.005
C304615		69	1.6	16.7	51	22.9	<0.005
C304616		71	1.2	16.1	57	23.6	0.005
C304617		75	1.2	16.9	64	22.7	<0.005
C304618		73	1.5	17.0	71	24.1	<0.005
C304619		69	1.3	16.0	61	23.3	<0.005
C304620		70	0.9	17.3	54	25.2	<0.005
C304621		70	1.0	16.0	54	23.6	<0.005
C304622		69	1.2	15.4	52	21.8	0.005
C304623		73	2.9	15.7	66	23.3	<0.005
C304624		74	1.8	15.9	53	24.5	0.006
C304625		71	1.4	16.9	56	25.4	<0.005
C304626		73	1.7	16.5	78	23.5	0.005
C304627		48	4.7	8.8	>10000	20.2	2.90
C304628		72	2.0	18.5	88	26.8	<0.005
C304629		70	2.8	16.9	67	27.1	<0.005
C304630		71	4.9	16.2	64	24.2	<0.005
C304631		61	2.1	16.7	87	22.8	0.015
C304632		72	0.6	17.7	73	22.4	0.008
C304633		77	1.5	17.1	177	20.2	<0.005
C304634		75	1.0	17.8	77	22.0	<0.005
C304635		71	1.3	18.9	83	21.4	<0.005
C304636		74	1.0	17.7	102	22.6	<0.005
C304637		73	2.2	18.3	99	22.8	<0.005
C304638		1	<0.1	2.4	4	1.8	<0.005
C304639		63	7.1	17.1	64	29.6	<0.005
C304640		70	4.4	18.1	74	24.7	<0.005

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Finalized Date: 10-JAN-2021
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CERTIFICATE OF ANALYSIS WH20240093

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE WH20240095

Project: Klaza

P.O. No.: Batch 75

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 20-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240095

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304197		2.45		1.00	5.73	101.0	290	1.22	2.45	4.14	2.60	36.4	12.7	10	17.15	331
C304198		4.69		0.20	7.37	15.7	440	1.46	0.80	2.96	0.13	37.0	8.9	14	13.55	37.5
C304199		5.67		0.15	7.44	5.9	420	1.41	0.80	3.20	0.15	39.9	10.7	15	8.97	32.6
C304200		5.22		0.24	7.29	16.9	780	1.45	0.86	2.99	0.88	38.1	7.9	12	15.15	84.3
C304201		0.26		10.20	6.57	1950	390	1.51	5.71	1.74	34.8	44.3	10.7	28	15.00	190.0
C304202		2.59		1.57	6.92	29.2	310	1.49	4.59	3.55	67.7	39.0	10.8	11	16.05	63.3
C304203		4.46		0.23	7.23	26.0	70	1.31	1.81	3.12	0.65	39.7	41.7	13	19.25	16.4
C304204		3.64		1.02	8.22	16.6	280	1.40	2.77	2.33	7.12	42.0	19.1	15	20.4	39.6
C304205		3.96		0.65	7.54	39.5	270	1.42	1.68	1.29	4.52	25.9	12.5	12	11.20	25.6
C304206		4.70		0.42	7.94	13.6	390	1.41	1.62	2.21	1.45	47.2	7.1	14	10.80	40.0
C304207		0.26	1.405	94.5	4.64	4020	250	0.95	50.8	1.54	195.5	27.6	58.0	36	8.61	1260
C304208		4.61		0.28	7.61	10.2	630	1.45	0.71	3.26	0.31	37.7	8.5	18	9.76	40.4
C304209		4.80		0.20	7.61	8.3	1070	1.62	0.92	3.05	0.20	40.2	8.6	23	8.94	73.0
C304210		5.17		0.12	7.42	5.8	930	1.42	0.74	3.22	0.18	33.1	6.1	14	10.25	29.5
C304211		5.55		0.27	7.82	10.3	740	1.51	1.44	3.05	0.55	39.8	7.5	16	10.65	42.5
C304212		4.60		0.19	7.73	10.1	430	1.50	0.85	3.01	0.17	52.1	14.5	15	9.26	16.6
C304213		5.35		0.42	7.72	11.5	540	1.45	0.68	2.71	0.28	48.6	10.3	17	11.85	14.6
C304214		1.84		0.22	7.38	19.1	340	1.47	0.71	2.71	0.36	40.4	11.4	14	10.50	16.4
C304215		5.06		0.35	7.92	12.1	720	1.34	1.05	2.18	0.77	42.8	16.6	16	11.80	10.5
C304216		3.68		0.30	7.95	13.7	250	1.56	0.78	2.04	0.86	43.8	15.9	14	10.50	6.4
C304217		5.04		3.03	7.13	138.0	140	1.19	6.18	0.89	24.3	35.4	15.3	17	9.08	52.0
C304218		5.35		0.01	0.18	0.4	30	0.07	0.03	34.7	0.11	0.91	0.5	2	0.08	1.6
C304219		1.78		2.35	6.91	108.5	240	0.98	3.72	1.21	5.20	37.9	10.6	14	7.43	35.1
C304220		4.92		0.12	7.76	5.5	1570	1.21	0.48	3.11	0.14	46.7	7.7	15	9.62	46.5
C304221		2.66		0.10	7.65	5.9	2530	1.48	0.14	2.96	0.16	44.9	7.5	14	9.70	7.2
C304222		1.16		2.24	7.71	16.8	1920	1.63	3.54	2.74	4.71	49.6	7.4	12	10.50	39.0
C304223		3.55		0.48	7.45	8.6	2370	1.69	0.74	2.94	0.23	42.0	7.6	17	9.38	14.5
C304224		<0.02		0.47	7.73	9.8	2420	1.86	0.80	2.98	0.30	47.3	7.9	14	9.79	19.6
C304225		6.69		0.33	7.73	10.9	2110	1.53	0.44	3.00	1.08	48.5	7.4	15	12.05	11.5
C304226		3.41		0.16	7.54	4.7	2370	1.59	0.22	3.53	0.58	49.8	7.7	14	15.40	9.7
C304227		3.15		0.45	7.39	5.7	2540	1.66	0.79	2.80	3.31	46.0	7.5	14	10.30	12.9
C304228		3.50		0.21	7.79	25.6	2110	1.65	0.19	2.52	0.56	47.8	7.6	15	11.65	8.7
C304229		3.47		0.96	6.15	851	580	1.55	0.31	4.04	1.42	47.6	5.9	17	15.00	10.0
C304230		6.47		0.39	7.01	318	1400	1.82	0.11	3.51	0.31	50.4	5.7	16	15.70	7.2
C304231		3.29		0.77	7.00	815	1410	1.93	0.15	3.52	0.37	54.7	7.1	18	18.60	7.2
C304232		2.61		0.28	7.81	17.5	2350	1.67	0.26	3.01	0.38	49.5	7.2	13	14.75	6.8
C304233		3.27		0.55	7.51	21.1	2340	1.76	0.21	2.94	1.73	48.3	7.8	16	14.50	6.9
C304234		3.41		0.17	7.48	16.6	2330	1.52	0.19	2.71	0.74	46.7	6.9	13	13.20	6.0
C304235		0.92		0.26	6.94	29.7	1800	1.61	0.23	2.35	1.49	40.5	6.2	11	25.1	12.9
C304236		2.72		0.18	6.93	19.2	3260	1.39	0.35	2.84	0.30	44.4	7.0	12	17.15	12.7

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240095

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304197		5.93	13.55	0.18	0.4	0.121	2.61	19.0	11.5	1.48	1490	8.24	0.04	4.0	5.0	410
C304198		3.52	16.10	0.08	0.4	0.048	2.41	18.8	12.1	0.90	415	2.45	0.80	5.7	4.5	510
C304199		3.66	15.05	0.09	0.4	0.032	1.90	20.6	14.0	0.88	178	5.95	1.49	5.7	4.5	530
C304200		2.93	15.70	0.10	0.4	0.031	2.52	19.3	23.1	0.87	392	3.02	0.74	5.5	3.7	550
C304201		5.83	15.00	0.08	1.0	0.632	2.84	23.5	41.3	0.74	1900	8.91	0.07	6.2	16.8	500
C304202		4.56	13.55	0.09	0.4	0.536	2.99	21.5	7.3	1.56	871	3.06	0.13	4.3	4.3	500
C304203		8.71	14.15	0.07	0.4	0.031	3.14	19.2	15.0	1.36	598	17.70	0.19	3.3	8.1	810
C304204		4.98	15.25	0.05	0.5	0.793	3.51	21.3	23.8	1.25	501	12.80	0.07	4.5	5.6	580
C304205		5.13	16.60	0.05	0.5	0.316	3.76	12.9	6.3	0.89	651	107.5	0.05	3.9	4.4	530
C304206		4.34	16.60	0.10	0.5	0.119	2.91	24.6	11.1	0.87	458	7.15	0.58	6.7	4.4	490
C304207		11.45	11.40	<0.05	0.7	3.90	1.96	14.0	30.1	0.53	1840	16.50	0.15	4.2	14.5	370
C304208		2.97	15.10	0.05	0.5	0.037	2.10	19.6	12.3	0.87	206	3.73	1.78	6.7	4.1	520
C304209		3.44	16.55	0.07	0.6	0.038	1.84	20.3	14.3	1.14	160	39.4	2.15	8.0	5.9	600
C304210		3.33	15.20	0.12	0.5	0.050	2.04	17.9	13.7	1.07	217	1.75	1.64	6.0	4.0	520
C304211		3.93	17.55	0.11	0.5	0.077	2.36	20.9	13.6	1.06	235	7.39	1.48	7.0	4.8	640
C304212		3.39	16.15	0.10	0.5	0.026	2.28	28.0	15.7	1.00	137	4.19	1.98	5.8	4.0	550
C304213		2.91	15.85	0.11	0.5	0.043	2.44	26.4	17.6	1.00	203	5.85	1.38	5.7	3.8	530
C304214		3.17	15.50	0.11	0.5	0.050	2.42	21.5	15.5	0.92	188	8.25	1.31	5.5	3.8	510
C304215		5.00	15.30	0.08	0.5	0.068	3.60	23.3	6.6	1.23	459	2.17	0.11	4.6	5.5	540
C304216		3.88	14.75	0.07	0.4	0.037	3.75	23.8	6.6	1.26	806	2.53	0.07	3.9	4.5	570
C304217		7.31	18.00	0.09	0.5	0.827	3.42	17.3	8.1	0.73	763	9.97	0.05	3.5	5.8	660
C304218		0.15	0.53	<0.05	0.1	0.006	0.05	1.0	1.1	1.66	98	4.38	0.08	0.2	0.5	80
C304219		5.97	15.15	<0.05	0.4	0.251	3.31	20.5	5.3	0.80	844	132.5	0.06	4.1	4.3	410
C304220		3.32	15.40	<0.05	0.5	0.033	1.92	24.5	18.1	1.04	194	3.83	1.63	6.7	4.0	510
C304221		3.54	16.45	0.08	1.1	0.039	2.71	22.0	18.7	0.89	877	1.84	2.32	8.8	3.0	620
C304222		3.55	16.80	0.09	1.1	0.059	2.77	25.4	22.9	0.81	913	1.29	1.96	8.6	2.7	640
C304223		3.49	16.45	0.08	1.1	0.041	2.76	20.1	17.5	0.82	905	1.89	2.26	8.6	2.9	620
C304224		3.52	17.45	0.07	1.2	0.044	2.84	23.1	18.7	0.84	979	1.60	2.17	8.9	2.9	640
C304225		3.93	16.10	0.08	1.1	0.057	2.73	24.8	22.2	0.84	972	1.42	1.99	8.5	3.0	670
C304226		3.22	16.55	0.11	1.0	0.038	2.86	25.7	24.0	0.81	765	2.00	1.99	8.1	2.7	630
C304227		3.31	16.10	0.15	1.0	0.058	2.76	23.1	19.9	0.83	681	1.28	2.06	8.2	3.0	670
C304228		3.17	16.55	0.15	1.1	0.074	2.95	24.3	28.3	0.83	1040	0.70	1.92	8.2	2.7	650
C304229		2.86	14.50	0.12	2.5	0.039	2.64	25.0	39.2	1.44	2080	4.03	0.04	7.8	5.4	820
C304230		2.45	17.20	0.11	2.3	0.021	3.26	25.7	27.8	1.21	1220	1.87	0.04	9.4	5.2	840
C304231		2.70	17.20	0.14	3.1	0.025	3.15	28.4	32.5	1.21	1420	2.08	0.04	9.6	6.3	960
C304232		3.12	16.50	0.15	1.0	0.032	3.10	25.4	12.1	0.81	855	0.45	2.16	7.9	2.9	630
C304233		3.27	16.90	0.13	1.0	0.040	2.95	24.0	13.6	0.80	890	1.34	2.21	8.5	3.2	630
C304234		3.10	14.95	0.08	1.0	0.042	3.02	23.7	15.9	0.80	777	0.60	2.03	7.5	3.0	600
C304235		2.76	14.90	0.07	1.0	0.055	3.15	19.7	165.0	0.72	2000	0.73	0.11	7.5	2.7	610
C304236		3.15	14.75	0.09	0.9	0.041	2.94	22.0	48.5	0.84	933	0.68	0.87	7.5	2.6	570

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304197		220	149.5	0.006	5.95	23.8	8.7	8	14.4	106.0	0.33	0.97	10.95	0.138	2.86	3.1
C304198		15.1	102.0	0.003	2.84	4.57	10.3	2	7.5	242	0.47	0.20	9.65	0.220	2.27	2.8
C304199		10.8	80.1	0.005	2.61	1.64	10.4	2	2.6	356	0.48	0.33	9.68	0.212	1.49	2.7
C304200		27.6	107.0	0.006	2.67	8.99	11.3	1	3.2	213	0.46	0.26	8.40	0.228	2.33	2.5
C304201		1715	163.5	<0.002	3.37	45.7	8.9	<1	6.5	78.5	0.50	0.20	10.40	0.205	2.61	4.2
C304202		151.5	164.5	0.007	4.58	3.92	9.6	2	3.3	131.0	0.32	0.81	7.85	0.178	2.94	2.1
C304203		23.6	161.5	0.012	9.10	4.08	10.8	3	3.5	218	0.27	0.77	9.48	0.161	2.87	3.3
C304204		60.8	167.0	0.014	4.92	8.55	10.7	2	4.5	853	0.40	0.53	10.90	0.178	2.98	2.2
C304205		255	205	0.019	5.22	4.21	9.9	2	18.1	51.4	0.34	0.46	10.10	0.148	2.79	1.8
C304206		102.5	132.5	0.010	3.80	3.50	11.1	3	10.7	161.5	0.57	0.31	11.50	0.232	2.26	3.1
C304207		9180	109.5	<0.002	>10.0	236	6.4	2	10.8	88.2	0.32	2.17	6.17	0.144	1.86	4.2
C304208		30.9	83.2	0.005	1.82	1.89	10.3	1	4.2	578	0.58	0.15	9.56	0.249	1.61	3.4
C304209		16.1	67.5	0.007	2.22	1.36	11.1	1	3.7	409	0.68	0.34	10.75	0.272	1.34	3.3
C304210		13.6	88.7	0.002	2.36	1.68	10.1	1	5.8	353	0.48	0.21	8.58	0.236	1.58	2.6
C304211		22.4	99.0	0.004	3.21	1.66	11.4	1	8.0	321	0.54	0.35	8.77	0.269	1.76	2.9
C304212		18.3	86.7	0.006	2.90	1.36	11.1	1	3.2	455	0.48	0.18	9.62	0.228	1.58	2.8
C304213		22.1	105.0	0.002	2.43	2.19	10.7	2	3.9	357	0.48	0.16	9.95	0.227	1.90	2.9
C304214		27.5	101.0	0.005	2.82	2.18	10.1	2	4.7	339	0.44	0.22	8.07	0.218	1.84	2.4
C304215		47.4	166.5	0.002	4.79	2.70	12.0	3	7.0	159.0	0.38	0.21	9.40	0.193	2.75	2.0
C304216		71.6	179.0	0.004	3.82	3.30	10.9	2	6.2	126.5	0.30	0.22	9.30	0.176	3.24	1.9
C304217		940	173.5	0.042	7.68	8.64	11.7	5	26.9	80.4	0.25	1.40	7.31	0.173	2.50	2.8
C304218		2.6	1.7	0.020	0.03	0.11	0.2	1	0.3	80.8	<0.05	<0.05	0.10	0.005	0.02	0.2
C304219		194.5	181.5	0.689	6.06	9.23	8.5	8	14.8	52.9	0.38	1.21	9.60	0.154	2.67	2.2
C304220		16.0	73.7	0.009	1.39	1.65	10.7	1	2.7	392	0.55	0.10	10.25	0.261	1.44	3.1
C304221		22.8	103.0	<0.002	0.13	1.31	11.3	1	1.9	411	0.75	<0.05	12.65	0.289	0.93	5.2
C304222		266	112.5	<0.002	0.30	2.33	11.0	1	2.2	323	0.73	<0.05	13.50	0.275	1.13	4.9
C304223		28.5	105.0	<0.002	0.17	1.67	11.1	1	1.9	406	0.75	<0.05	11.65	0.270	1.00	4.7
C304224		31.1	115.0	<0.002	0.20	1.94	11.4	<1	2.3	396	0.80	<0.05	13.15	0.275	1.14	5.4
C304225		41.6	110.0	<0.002	0.10	1.91	10.9	<1	2.1	364	0.69	<0.05	12.60	0.279	1.15	4.4
C304226		25.3	116.5	0.002	0.10	1.32	10.9	1	1.7	408	0.61	<0.05	13.55	0.266	1.09	4.8
C304227		42.1	109.0	<0.002	0.28	1.56	10.3	<1	2.0	391	0.64	0.08	11.05	0.266	1.11	3.9
C304228		41.7	111.0	0.002	0.10	2.23	10.9	<1	1.8	374	0.63	<0.05	12.35	0.266	1.35	4.3
C304229		40.0	143.5	<0.002	0.98	36.0	5.8	<1	1.4	341	0.53	<0.05	6.55	0.245	2.66	4.3
C304230		21.6	147.0	<0.002	0.66	16.90	5.8	<1	1.5	307	0.69	<0.05	8.29	0.247	3.19	5.3
C304231		28.8	158.5	0.002	0.96	29.2	6.7	<1	1.4	258	0.66	<0.05	8.37	0.284	3.38	4.9
C304232		29.7	122.5	0.002	0.10	2.43	10.3	<1	1.6	399	0.61	<0.05	12.20	0.263	1.33	4.3
C304233		56.7	115.5	<0.002	0.13	2.99	11.6	<1	1.8	383	0.69	<0.05	13.85	0.269	1.26	5.0
C304234		38.7	109.5	<0.002	0.15	2.43	9.9	<1	1.6	360	0.61	<0.05	13.45	0.256	1.32	4.1
C304235		71.2	106.0	<0.002	0.48	14.05	9.4	<1	2.4	195.0	0.63	0.07	12.85	0.249	2.24	4.4
C304236		25.1	108.5	<0.002	0.60	8.32	9.7	<1	1.7	286	0.59	0.15	11.70	0.245	1.81	4.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 10-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20240095

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304197		62	10.5	9.4	194	7.2	0.143
C304198		85	6.7	9.8	32	10.2	0.071
C304199		84	6.2	10.6	31	9.5	0.034
C304200		94	6.0	9.8	76	9.9	0.106
C304201		63	6.1	10.7	2740	27.6	0.642
C304202		73	12.2	11.2	3850	7.1	0.108
C304203		108	7.5	9.8	56	9.8	0.107
C304204		96	9.3	9.4	370	12.4	0.109
C304205		81	14.1	6.5	372	11.4	0.068
C304206		91	12.7	10.9	138	12.0	0.067
C304207		49	4.5	8.6	>10000	20.9	2.84
C304208		85	8.2	10.4	63	10.7	0.056
C304209		91	8.4	11.4	46	14.6	0.092
C304210		84	8.3	9.8	38	11.1	0.079
C304211		97	7.0	11.4	71	12.5	0.058
C304212		92	5.4	10.5	39	12.5	0.044
C304213		84	7.6	10.4	45	11.8	0.044
C304214		84	6.7	9.6	54	11.1	0.037
C304215		95	9.9	10.6	73	10.8	0.064
C304216		91	9.3	9.9	84	10.3	0.049
C304217		93	14.7	7.9	1920	16.6	0.211
C304218		1	0.1	1.9	13	1.7	<0.005
C304219		52	16.4	6.7	413	8.9	0.133
C304220		87	4.1	11.1	39	10.4	0.030
C304221		84	9.1	17.6	77	25.1	<0.005
C304222		74	3.3	16.7	373	25.7	0.013
C304223		77	3.6	17.8	78	25.3	<0.005
C304224		76	4.1	19.0	88	27.6	<0.005
C304225		76	4.5	17.4	136	26.4	<0.005
C304226		74	5.0	17.7	85	25.4	<0.005
C304227		74	3.8	16.5	261	26.5	<0.005
C304228		73	2.9	15.7	88	26.3	<0.005
C304229		54	2.5	10.9	156	100.5	0.068
C304230		54	2.8	11.1	80	82.8	0.017
C304231		62	3.4	12.2	73	122.0	0.037
C304232		72	1.2	15.6	90	24.7	0.008
C304233		74	2.5	17.1	166	26.0	0.007
C304234		70	0.7	15.9	96	24.2	0.007
C304235		70	3.4	13.2	158	24.2	<0.005
C304236		68	1.3	15.2	74	22.8	0.006

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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 10-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20240095

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.

Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE WH20243277

Project: Klaza

P.O. No.: Batch 76

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 23-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20243277

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304237		4.67		0.41	6.66	17.3	1270	1.59	0.54	2.94	0.41	49.2	5.8	8	16.90	6.0
C304238		4.74		0.74	6.81	18.2	1330	1.82	0.45	1.84	6.95	57.3	4.5	7	15.00	15.0
C304239		4.75		0.10	7.77	10.9	2160	1.66	0.43	2.01	0.57	44.9	6.0	10	12.85	10.1
C304240		6.66		0.15	7.37	10.6	2490	1.72	0.55	2.32	0.23	45.5	7.8	10	22.9	8.4
C304241		0.26		10.35	6.72	1905	360	1.50	5.76	1.74	37.3	47.9	11.0	29	16.25	198.5
C304242		4.70		0.43	7.30	34.4	1740	1.64	0.33	2.43	1.26	47.1	6.3	10	23.8	14.6
C304243		2.97		0.06	7.06	12.9	960	1.64	0.19	3.11	0.24	43.3	5.7	10	17.60	5.0
C304244		1.22		14.00	7.21	151.0	860	1.69	10.55	1.79	8.06	49.0	6.1	11	16.15	1205
C304245		0.44		16.30	7.14	158.5	790	1.57	15.90	1.94	8.12	48.2	6.5	8	14.95	1490
C304246		3.26		1.09	7.73	41.2	880	1.45	1.60	2.68	0.77	54.2	7.7	10	20.4	37.6
C304247		5.60		0.29	6.56	32.6	1420	1.54	0.75	4.28	0.39	50.4	12.0	9	20.3	10.0
C304248		2.77		0.24	7.98	36.5	720	1.86	0.20	4.33	0.35	71.8	14.4	49	15.70	10.7
C304249		1.12		0.88	6.65	413	2260	1.54	1.04	5.68	1.22	59.6	16.3	35	20.3	15.9
C304250		3.34		0.34	7.83	46.4	1270	2.05	0.57	4.34	0.57	67.1	14.0	43	33.4	8.7
C304641		1.21		8.67	5.12	580	640	1.36	8.15	7.23	66.5	45.9	9.0	25	16.85	116.0
C304642		0.26	1.425	95.6	4.77	4110	220	0.98	55.5	1.57	201	29.8	60.7	36	9.09	1285
C304643		4.49		0.39	7.30	48.6	900	1.96	0.28	3.31	0.49	66.0	12.3	41	30.8	14.2
C304644		1.09		0.42	6.72	89.3	1140	1.83	0.15	2.46	0.34	52.6	9.3	29	32.8	22.0
C304645		1.48		2.04	7.50	87.0	290	2.20	3.79	3.52	2.01	63.2	14.5	42	36.5	56.6
C304646		1.51		0.23	7.05	62.4	2690	1.89	0.30	3.65	0.18	69.6	11.3	38	27.0	12.0
C304647		1.09		0.35	5.94	56.1	5310	2.05	0.16	3.48	0.21	42.6	8.4	11	34.4	18.5
C304648		1.61		0.12	7.33	43.2	3000	2.28	0.14	3.35	0.23	67.0	10.8	42	27.8	15.5
C304649		5.71		0.13	6.82	32.0	1180	1.56	0.18	2.34	0.18	47.0	6.6	9	23.8	6.5
C304650		<0.02		0.15	7.17	34.2	1220	1.62	0.19	2.39	0.16	52.7	6.8	9	25.5	6.6
C304651		5.90		0.42	6.79	62.6	1130	1.61	0.27	2.33	3.11	39.9	6.1	9	25.0	9.0
C304652		4.97		0.16	7.24	20.0	1560	1.40	0.17	2.97	0.25	45.9	7.1	9	25.2	8.2
C304653		5.03		0.14	7.19	11.2	2860	1.66	0.21	3.06	0.25	40.2	7.9	11	14.95	17.6
C304654		4.91		0.20	8.26	21.7	1650	1.85	0.46	2.93	0.23	32.0	16.3	6	28.5	23.1
C304655		4.87		0.39	7.94	65.6	1810	1.95	0.42	3.53	0.59	34.2	14.6	7	27.0	22.9
C304656		2.34		0.26	7.29	35.9	1480	1.56	0.52	2.74	0.69	40.4	9.6	8	20.0	9.3
C304657		1.15		6.82	6.31	775	530	1.16	7.72	2.40	21.7	47.2	6.7	10	9.96	90.1
C304658		5.06		0.02	0.12	1.4	20	0.09	0.08	31.9	0.03	0.95	0.6	2	0.09	3.0
C304659		3.26		1.57	7.14	88.3	1800	1.38	1.68	2.49	15.85	42.2	7.9	10	13.55	22.8
C304660		6.74		0.11	7.51	7.8	2320	1.47	0.18	2.82	0.37	44.4	7.7	13	11.90	6.9
C304661		6.34		0.27	6.91	26.0	1810	1.46	0.36	2.67	0.41	39.7	6.8	11	20.1	9.7
C304662		5.19		0.49	6.40	233	1310	1.46	0.35	3.13	4.34	47.1	5.9	9	19.80	16.8
C304663		1.14		1.10	6.66	120.0	2150	1.48	1.47	2.50	6.90	44.2	9.2	8	19.60	20.4
C304664		2.73		0.13	6.84	9.7	2740	1.49	0.45	2.47	0.31	88.6	6.9	10	19.45	8.1
C304665		1.19		2.76	6.83	286	1770	1.47	4.18	2.83	5.74	93.0	6.7	9	14.45	29.9
C304666		2.79		1.50	7.44	325	1440	1.57	1.48	2.53	5.82	58.6	6.9	10	19.30	15.2

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Finalized Date: 30-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20243277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304237		2.63	13.50	0.10	1.2	0.073	2.34	26.9	329	0.95	1120	0.41	0.07	7.4	2.0	400
C304238		2.64	12.55	0.10	1.7	0.057	2.36	31.4	272	0.75	685	0.18	0.38	7.7	1.5	340
C304239		3.60	14.90	0.11	0.9	0.056	2.86	22.9	26.3	0.86	752	0.34	1.91	7.9	2.6	630
C304240		3.83	16.20	0.11	1.0	0.085	2.78	22.1	200	0.72	975	0.24	1.10	8.6	2.7	620
C304241		5.99	14.95	0.11	1.0	0.694	2.89	25.5	41.2	0.75	2040	8.93	0.07	6.4	16.5	520
C304242		4.41	14.90	0.09	1.0	0.156	2.94	24.8	318	0.87	3000	0.46	0.08	7.8	2.4	580
C304243		2.79	15.55	0.09	1.0	0.047	1.69	21.6	800	0.93	935	0.57	0.03	8.0	2.2	580
C304244		6.54	15.70	0.09	0.9	0.975	2.86	27.2	205	0.98	2440	0.81	0.03	6.9	2.3	540
C304245		6.08	15.15	0.08	0.9	0.944	2.89	26.5	171.5	1.00	2320	0.70	0.03	6.6	2.2	520
C304246		3.28	16.20	0.12	1.0	0.080	2.60	29.4	427	0.90	1070	1.02	0.04	8.0	2.8	600
C304247		3.37	14.15	0.09	0.8	0.053	2.35	27.5	146.5	1.40	862	0.52	0.04	7.2	3.4	550
C304248		4.70	18.00	0.12	2.7	0.071	1.51	35.1	490	1.52	1550	1.04	0.03	6.1	4.0	1200
C304249		4.90	16.85	0.14	2.6	0.060	2.11	29.0	188.5	1.96	3100	1.16	0.04	5.2	3.7	930
C304250		5.06	19.80	0.17	2.7	0.074	2.58	33.3	376	1.60	1740	0.91	0.06	6.1	3.6	1210
C304641		5.41	13.65	0.13	2.0	0.508	2.08	23.1	32.1	2.50	6320	1.73	0.03	3.9	2.5	710
C304642		11.95	12.10	0.12	0.8	4.31	1.98	14.5	31.7	0.55	1940	17.60	0.16	4.2	14.9	380
C304643		3.93	18.75	0.15	4.2	0.048	2.69	35.0	200	1.52	1160	1.90	0.08	8.9	13.5	1360
C304644		2.95	16.45	0.15	2.7	0.028	2.55	27.1	146.5	1.05	800	1.64	0.07	8.3	9.9	970
C304645		4.93	19.95	0.15	3.1	0.069	2.02	32.0	540	1.48	1540	2.84	0.05	6.8	7.3	1060
C304646		3.54	17.95	0.15	4.1	0.042	2.50	36.5	349	1.49	1320	1.24	0.05	9.6	13.6	1480
C304647		2.54	13.35	0.13	1.0	0.029	2.08	23.3	50.0	1.02	930	1.91	0.06	6.1	4.0	530
C304648		3.58	20.4	0.18	4.2	0.045	2.48	33.6	530	1.48	956	1.23	0.07	11.1	16.5	1650
C304649		2.86	15.60	0.13	1.2	0.035	2.48	25.1	257	0.85	648	1.21	0.08	7.5	2.5	520
C304650		2.82	15.85	0.13	1.1	0.027	2.56	27.2	258	0.89	647	1.00	0.08	7.8	2.3	550
C304651		2.87	15.85	0.13	1.2	0.059	2.80	20.4	186.5	0.78	971	0.86	0.12	7.4	2.3	540
C304652		2.83	15.95	0.14	1.1	0.038	2.87	23.7	115.5	0.92	767	3.13	0.20	7.7	2.3	590
C304653		3.07	16.80	0.14	1.1	0.039	2.81	20.5	37.8	0.76	690	1.11	1.92	8.0	2.7	620
C304654		4.72	20.8	0.11	1.8	0.068	1.85	14.2	157.0	0.95	1070	1.18	0.45	6.3	3.8	1290
C304655		4.25	21.1	0.15	2.0	0.067	2.67	15.3	128.5	1.06	1540	1.34	0.07	6.3	4.2	1190
C304656		3.64	17.00	0.12	1.1	0.047	2.66	19.9	152.5	0.90	1030	0.47	0.09	7.2	2.6	660
C304657		5.38	15.60	0.13	0.8	0.357	2.97	26.0	16.3	0.92	4180	2.05	0.02	5.9	2.7	490
C304658		0.14	0.43	0.07	<0.1	<0.005	0.03	1.1	2.0	1.59	89	<0.05	0.06	0.2	0.3	50
C304659		3.64	16.60	0.16	1.0	0.257	2.88	20.9	41.7	0.82	1420	0.68	1.02	7.4	2.5	610
C304660		3.28	17.10	0.14	1.1	0.037	2.85	23.0	18.6	0.83	795	0.49	2.29	7.8	2.9	630
C304661		2.81	16.00	0.16	1.0	0.050	3.00	19.6	56.2	0.85	1010	1.39	0.78	7.3	2.3	600
C304662		2.85	14.55	0.15	0.9	0.049	1.99	25.7	450	1.03	1130	0.98	0.04	6.3	2.3	500
C304663		3.09	15.75	0.14	1.1	0.119	2.33	22.9	346	0.81	954	0.65	0.05	6.8	2.1	520
C304664		3.03	16.55	0.17	1.1	0.040	2.97	49.2	277	0.75	639	2.77	0.14	7.3	2.4	570
C304665		3.37	15.95	0.17	1.1	0.093	2.98	53.2	113.5	0.90	1180	1.09	0.05	6.9	2.1	550
C304666		3.67	17.10	0.14	1.1	0.070	2.85	33.0	287	0.89	1520	4.12	0.04	7.5	2.5	600

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20243277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304237		42.8	119.5	<0.002	0.69	9.85	7.1	1	1.6	206	0.97	0.14	21.8	0.169	1.71	8.2
C304238		90.0	119.0	<0.002	0.45	13.35	6.4	<1	1.8	190.5	1.12	0.11	28.7	0.148	1.59	9.6
C304239		24.9	112.5	<0.002	0.35	4.13	10.2	1	2.4	338	0.63	0.07	12.90	0.260	1.42	4.4
C304240		16.5	117.5	0.002	0.66	8.72	11.3	1	2.3	317	0.71	0.11	14.20	0.261	1.77	4.3
C304241		1770	179.0	0.002	3.44	48.6	9.6	1	6.4	80.4	0.50	0.31	11.75	0.206	2.50	4.7
C304242		61.5	136.0	<0.002	0.55	12.30	10.6	1	5.2	231	0.65	0.05	14.50	0.252	2.38	4.9
C304243		16.2	63.2	<0.002	0.21	9.77	10.3	1	1.8	375	0.68	0.05	12.25	0.250	1.48	3.2
C304244		133.5	167.0	<0.002	0.78	94.7	10.0	1	3.0	169.5	0.57	0.06	13.15	0.219	2.65	4.9
C304245		186.0	172.5	0.002	0.89	84.6	9.6	1	3.0	148.5	0.54	0.05	14.40	0.218	2.77	4.5
C304246		33.1	130.5	<0.002	0.77	9.81	10.9	1	2.4	261	0.65	0.06	15.05	0.253	2.14	4.1
C304247		21.1	118.0	0.002	1.26	7.53	9.7	1	1.7	241	0.57	0.24	14.20	0.222	2.14	4.7
C304248		18.5	83.3	<0.002	0.23	8.56	23.8	<1	1.6	691	0.39	<0.05	7.36	0.517	1.56	2.7
C304249		40.2	107.0	0.003	0.95	19.25	18.6	<1	1.8	366	0.31	<0.05	6.02	0.403	2.36	2.5
C304250		18.3	117.0	<0.002	0.47	14.35	22.5	<1	2.0	366	0.38	<0.05	6.71	0.494	2.56	2.4
C304641		569	105.0	<0.002	1.47	59.0	14.5	1	3.6	281	0.23	<0.05	4.59	0.315	2.18	3.6
C304642		9520	112.0	0.002	>10.0	238	6.7	2	11.3	89.2	0.31	1.94	6.69	0.148	1.95	4.4
C304643		19.3	113.0	<0.002	0.24	27.6	10.3	<1	1.4	326	0.51	<0.05	7.13	0.415	1.68	3.6
C304644		15.2	97.1	<0.002	0.29	33.9	8.0	<1	1.4	260	0.57	<0.05	9.16	0.323	1.59	4.4
C304645		91.1	112.5	<0.002	1.01	32.0	18.1	<1	2.7	248	0.40	0.06	7.06	0.425	1.89	3.6
C304646		10.9	117.5	0.002	0.32	29.2	8.2	1	1.5	351	0.51	0.10	7.34	0.397	1.55	4.8
C304647		15.1	100.5	0.002	0.50	29.3	7.9	1	1.3	240	0.48	0.07	10.55	0.201	1.46	5.3
C304648		14.6	81.9	<0.002	0.15	29.8	8.6	1	1.9	344	0.59	<0.05	6.87	0.428	1.51	4.0
C304649		16.0	91.2	<0.002	0.20	16.20	8.7	1	1.6	174.0	0.69	0.05	15.00	0.221	1.63	4.9
C304650		15.7	106.5	<0.002	0.21	16.80	9.2	1	1.7	178.0	0.71	<0.05	15.20	0.231	1.59	5.2
C304651		145.0	91.3	0.002	0.27	11.40	8.7	<1	1.9	174.5	0.67	<0.05	12.50	0.229	1.84	4.4
C304652		17.9	94.1	<0.002	0.17	8.40	9.8	<1	1.8	201	0.65	<0.05	12.60	0.254	1.61	3.9
C304653		23.9	94.9	0.002	0.30	2.73	9.7	<1	1.6	379	0.69	0.05	11.40	0.254	1.32	4.1
C304654		18.0	56.4	0.002	0.67	19.55	12.7	1	1.7	291	0.36	0.13	3.14	0.461	1.65	1.4
C304655		27.2	78.1	<0.002	1.04	19.10	13.7	1	1.5	198.5	0.36	0.16	3.45	0.448	2.67	1.9
C304656		26.9	91.5	<0.002	0.90	15.45	10.0	1	1.8	187.5	0.55	0.14	11.60	0.267	1.84	3.1
C304657		790	179.0	<0.002	2.95	35.5	8.4	1	6.8	67.4	0.45	0.08	11.25	0.198	3.13	3.5
C304658		1.1	1.0	<0.002	0.01	0.18	0.2	<1	<0.2	77.6	<0.05	<0.05	0.08	0.005	0.02	0.2
C304659		245	107.0	<0.002	0.61	8.56	9.6	<1	2.9	260	0.56	<0.05	10.35	0.252	1.95	3.6
C304660		26.6	94.7	<0.002	0.08	1.86	10.2	1	1.7	407	0.62	<0.05	12.10	0.269	1.30	4.0
C304661		32.6	104.0	<0.002	0.30	6.43	9.4	1	2.2	243	0.55	<0.05	13.00	0.247	1.92	4.4
C304662		110.5	103.5	<0.002	0.41	19.95	9.0	1	2.9	256	0.48	<0.05	11.15	0.214	1.82	3.9
C304663		164.0	95.6	<0.002	0.96	12.10	9.1	<1	2.5	266	0.58	<0.05	10.65	0.224	1.88	4.5
C304664		20.3	104.5	<0.002	0.34	9.30	9.2	<1	2.4	292	0.57	0.06	18.30	0.241	1.90	3.6
C304665		184.0	128.0	<0.002	1.28	15.95	9.0	<1	3.6	183.5	0.53	0.06	19.85	0.228	2.57	5.1
C304666		385	145.0	<0.002	1.04	12.30	10.8	<1	5.1	156.5	0.55	0.06	12.50	0.256	2.49	3.8

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20243277

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304237		49	1.8	14.5	95	25.4	0.005
C304238		44	1.1	13.9	382	32.8	0.016
C304239		72	1.5	14.6	84	21.9	0.007
C304240		74	3.0	14.0	76	21.8	0.009
C304241		64	5.7	11.5	2890	27.7	0.641
C304242		71	6.1	14.0	178	24.5	0.040
C304243		71	2.6	14.5	64	24.1	0.005
C304244		65	11.0	11.9	579	22.3	0.113
C304245		63	9.3	11.5	604	20.0	0.095
C304246		71	3.1	14.4	101	23.8	0.016
C304247		68	3.1	16.0	70	20.1	0.009
C304248		192	5.7	17.8	116	101.5	0.006
C304249		150	7.9	17.0	125	105.0	0.080
C304250		191	13.3	18.5	110	87.7	0.008
C304641		124	13.0	15.2	4830	72.2	0.110
C304642		49	4.9	9.0	>10000	22.6	2.92
C304643		101	2.2	15.4	108	154.0	0.019
C304644		73	3.8	13.9	69	96.4	0.008
C304645		141	11.3	18.1	173	109.5	0.034
C304646		80	2.2	17.7	66	162.0	0.009
C304647		56	3.7	14.0	42	27.6	0.011
C304648		89	2.7	16.1	77	164.0	<0.005
C304649		60	3.1	15.0	49	26.2	0.006
C304650		62	3.2	16.1	50	25.9	0.006
C304651		64	4.1	13.4	241	26.3	0.012
C304652		70	3.0	15.9	62	24.9	<0.005
C304653		69	1.4	15.3	58	26.0	0.006
C304654		150	4.1	15.9	90	61.4	<0.005
C304655		145	7.5	15.8	95	70.6	0.016
C304656		77	5.2	15.2	97	28.5	0.007
C304657		57	9.3	9.9	1490	18.3	0.151
C304658		1	0.1	2.0	4	1.6	<0.005
C304659		71	2.9	14.9	1010	20.4	0.015
C304660		73	0.7	16.4	73	24.8	<0.005
C304661		68	2.8	14.6	74	22.4	0.007
C304662		61	5.9	15.1	300	20.9	0.018
C304663		63	2.9	13.4	466	24.4	0.019
C304664		65	2.3	13.7	68	26.4	0.008
C304665		62	3.7	14.9	416	25.4	0.050
C304666		71	7.0	16.8	429	26.1	0.046

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 30-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20243277

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

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Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE WH20243280

Project: Klaza

P.O. No.: Batch 77

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 23-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20243280

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304667		1.05		2.58	6.23	869	630	1.31	2.61	4.41	13.65	43.6	7.8	9	11.80	34.0
C304668		1.38		2.05	5.13	98.2	600	1.83	2.29	4.52	5.81	38.8	4.6	19	20.7	49.8
C304669		1.23		4.27	6.70	1120	450	1.70	4.50	3.04	37.3	42.8	7.0	10	15.20	73.1
C304670		1.04		3.95	7.42	97.2	900	1.89	8.59	2.05	8.65	36.2	10.6	9	20.1	33.3
C304671		1.98		4.45	7.33	292	410	1.56	4.64	1.43	15.25	49.8	5.9	10	11.05	175.0
C304672		2.94		0.37	7.32	25.4	2100	1.89	0.40	2.80	3.49	41.4	6.3	11	14.00	7.3
C304673		1.29		5.72	6.99	1490	770	1.62	1.12	2.33	29.0	46.6	6.2	11	12.60	30.5
C304674		0.39		4.49	7.23	1700	920	1.75	0.95	2.46	23.3	51.8	5.5	10	12.70	26.2
C304675		4.99		0.08	8.05	10.1	2570	1.94	0.25	2.85	0.16	50.6	7.6	13	7.67	4.3
C304676		1.23		4.43	7.69	186.5	710	1.72	3.27	2.38	26.1	53.1	7.9	12	12.85	156.0
C304677		7.03		0.32	7.19	66.8	2150	1.53	0.46	3.41	0.29	40.0	8.7	12	16.75	11.6
C304678		6.25		0.30	6.84	28.9	1620	1.51	0.23	3.28	0.16	37.0	7.9	11	20.3	5.6
C304679		0.26	1.465	94.5	4.67	4000	60	1.09	53.2	1.58	198.5	27.6	61.8	35	9.01	1280
C304680		6.05		0.24	7.29	38.7	1370	1.62	0.18	3.08	0.15	42.3	7.0	10	19.30	6.1
C304681		6.30		0.12	7.74	23.8	2360	1.82	0.34	3.39	0.27	42.5	8.2	11	15.35	6.0
C304682		6.58		0.12	7.27	12.2	1780	1.96	0.24	2.76	0.17	39.5	7.2	12	17.50	6.6
C304683		6.00		0.30	7.47	40.9	2190	1.81	0.45	2.67	0.41	39.3	7.2	9	12.50	30.7
C304684		6.10		0.10	8.24	11.6	2520	2.02	0.23	2.97	0.15	46.8	8.2	14	9.98	8.5
C304685		4.15		0.13	7.88	8.5	2360	2.27	0.18	2.83	0.14	50.5	7.8	11	8.67	6.8
C304686		1.12		6.66	7.70	120.5	1560	2.25	12.15	1.98	6.54	47.5	6.3	11	20.1	21.6
C304687		0.94		0.12	7.53	14.0	2030	2.01	0.18	2.89	0.17	45.1	7.4	11	14.40	6.4
C304688		0.26		9.85	6.93	2070	240	1.59	6.07	1.87	35.7	42.7	11.3	30	15.90	207
C304689		6.39		0.12	7.52	13.0	2510	1.82	0.21	3.14	0.15	43.2	7.2	13	11.25	5.6
C304690		6.27		0.08	8.00	12.7	2490	1.66	0.21	2.56	0.17	49.5	7.8	12	7.65	8.6
C304691		6.37		0.08	7.69	10.1	2330	1.78	0.16	2.69	0.17	44.1	7.2	13	8.17	4.3
C304692		4.98		0.07	7.31	7.7	2250	1.66	0.25	2.68	0.16	44.6	6.7	10	7.94	6.6
C304693		1.13		0.10	7.45	7.4	1810	1.91	0.38	1.92	0.16	42.6	8.5	12	6.57	13.4
C304694		1.43		0.14	7.75	11.9	2230	1.89	0.29	2.14	0.26	45.6	6.5	10	8.22	9.7
C304695		7.01		0.11	8.20	10.0	400	1.57	0.49	3.43	0.16	48.9	9.2	26	8.81	9.8
C304696		2.10		0.09	7.63	8.3	260	1.43	0.62	3.50	0.16	39.8	8.6	24	10.35	13.7
C304697		2.17		0.19	7.18	7.7	390	1.69	0.69	2.98	0.36	41.0	9.1	12	11.85	6.2
C304698		<0.02		0.18	7.08	7.0	380	1.67	0.62	2.96	0.36	37.3	8.2	10	11.25	6.0
C304699		4.92		0.17	7.68	5.8	1920	1.50	0.39	3.08	0.26	44.2	5.4	13	10.45	10.2
C304700		1.07		0.22	10.45	7.3	1550	2.21	0.87	3.42	0.32	50.9	7.4	10	26.1	55.6
C304701		5.35		0.01	0.22	<0.2	30	0.12	0.02	33.6	<0.02	1.10	0.8	2	0.06	1.7
C304702		4.31		0.11	7.51	4.8	1670	1.48	0.38	2.83	0.18	43.6	7.2	12	11.10	16.5
C304703		2.24		0.16	7.66	6.6	380	1.36	0.50	3.71	0.32	51.4	10.8	11	15.40	13.8
C304704		1.26		0.24	7.17	9.6	860	1.39	0.49	5.07	0.54	44.8	9.2	9	13.85	17.5
C304705		4.84		0.16	7.48	5.9	3700	1.31	0.32	2.70	0.26	44.4	6.3	12	11.35	24.5
C304706		1.19		0.21	7.51	9.7	3650	1.47	0.41	2.99	0.31	43.7	6.9	11	19.85	11.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20243280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304667		4.56	13.70	0.08	0.9	0.138	2.73	25.2	15.0	1.48	3100	2.64	0.03	6.1	2.7	480
C304668		2.68	13.45	0.09	2.3	0.109	2.04	22.0	33.0	1.41	1380	2.72	0.03	5.6	10.5	440
C304669		4.03	15.55	0.09	1.1	0.216	2.93	24.4	42.9	0.98	2010	2.05	0.03	6.6	4.9	530
C304670		3.78	17.50	0.11	0.9	0.166	3.15	17.9	110.0	0.77	2260	2.05	0.04	7.1	2.8	590
C304671		5.93	17.20	0.12	1.1	0.265	3.39	28.8	12.8	0.80	2900	0.75	0.06	7.1	2.9	580
C304672		3.37	17.00	0.12	0.9	0.081	3.37	20.8	54.6	0.74	1110	0.64	1.30	7.9	3.2	620
C304673		4.68	15.60	0.09	0.9	0.116	3.29	26.1	44.3	0.88	1260	0.77	0.30	6.6	3.1	540
C304674		4.55	16.00	0.13	0.9	0.109	3.46	30.2	44.7	0.93	1280	1.02	0.27	6.9	2.8	600
C304675		3.57	17.00	0.12	1.0	0.039	3.01	27.3	17.1	0.97	732	0.78	2.59	8.0	3.5	680
C304676		5.81	17.75	0.14	1.0	0.317	3.42	29.7	40.0	0.93	1560	0.95	0.55	8.2	3.4	650
C304677		3.55	16.75	0.14	0.9	0.047	2.93	20.5	101.5	0.88	908	0.56	1.26	8.0	3.5	640
C304678		2.86	16.20	0.15	0.9	0.035	2.86	18.0	90.4	0.73	802	0.49	1.06	7.7	2.7	600
C304679		11.80	11.70	0.08	0.8	4.00	1.96	13.1	29.7	0.55	1870	17.40	0.16	4.3	15.6	380
C304680		3.17	15.55	0.14	0.9	0.037	2.95	21.9	164.5	0.90	879	0.80	0.64	7.4	2.9	620
C304681		3.35	17.55	0.13	1.1	0.042	3.03	22.1	25.6	0.80	967	0.66	2.16	8.4	3.2	660
C304682		3.44	16.45	0.15	1.1	0.048	2.91	20.2	154.0	0.80	769	1.04	1.17	7.9	3.2	600
C304683		3.35	16.45	0.12	1.2	0.048	2.96	19.9	25.0	0.77	706	0.75	1.98	8.6	2.8	610
C304684		3.75	17.00	0.15	1.2	0.043	2.97	24.8	24.1	0.99	813	0.59	2.60	9.1	3.7	700
C304685		3.31	17.60	0.13	1.4	0.040	2.87	26.6	19.9	0.89	863	0.75	2.32	9.7	3.3	640
C304686		4.03	17.90	0.11	1.2	0.224	3.50	24.7	146.0	0.62	2370	1.05	0.64	8.8	3.1	630
C304687		3.50	16.95	0.11	1.2	0.045	3.08	23.3	43.8	0.75	751	0.81	1.77	8.9	2.9	630
C304688		6.33	15.75	0.12	1.1	0.649	3.04	22.9	41.2	0.78	2070	9.17	0.07	6.5	17.9	550
C304689		3.45	16.40	0.12	1.2	0.038	2.77	22.0	17.8	0.78	716	0.62	2.36	8.5	3.1	650
C304690		3.31	17.45	0.16	1.1	0.047	2.95	27.0	16.6	0.98	649	0.51	2.77	8.5	3.0	670
C304691		3.41	16.55	0.16	1.1	0.049	2.80	23.0	16.0	0.93	721	0.47	2.73	8.0	3.2	650
C304692		3.00	16.20	0.14	1.0	0.060	2.81	23.5	17.6	0.93	667	0.42	2.48	8.2	2.9	630
C304693		2.87	15.30	0.14	1.4	0.040	2.96	23.0	13.9	0.76	458	0.77	2.68	8.4	2.6	490
C304694		2.98	17.35	0.13	1.0	0.058	2.70	24.6	20.2	1.03	530	0.44	2.60	7.8	2.8	640
C304695		3.56	18.75	0.15	2.1	0.016	2.38	26.4	18.0	1.17	355	2.41	2.66	5.6	7.7	780
C304696		3.14	17.80	0.14	2.4	0.012	2.84	17.6	54.1	0.89	332	2.59	1.08	4.9	7.6	800
C304697		3.20	16.55	0.13	1.1	0.031	2.96	20.3	28.7	0.62	416	1.38	1.73	5.4	3.3	630
C304698		3.04	15.90	0.10	1.0	0.026	2.95	17.5	28.5	0.62	406	1.19	1.71	5.1	3.0	620
C304699		2.94	16.45	0.11	0.9	0.047	2.37	22.2	14.4	0.71	591	0.60	2.39	7.2	3.0	640
C304700		4.63	30.2	0.12	1.2	0.149	1.69	25.2	37.7	0.93	516	0.22	3.53	7.7	3.0	830
C304701		0.20	0.61	0.05	0.1	<0.005	0.07	1.2	1.1	1.37	100	0.10	0.09	0.4	<0.2	60
C304702		3.07	16.25	0.10	0.9	0.027	2.33	22.0	71.4	0.85	488	0.51	1.28	6.3	2.2	640
C304703		3.14	16.80	0.11	1.0	0.029	2.06	26.5	108.0	0.90	526	0.35	0.35	5.1	2.5	670
C304704		3.06	16.40	0.12	0.9	0.026	2.28	23.1	79.6	0.81	800	0.39	0.86	6.1	2.5	620
C304705		3.12	14.40	0.10	0.9	0.034	2.64	22.7	20.9	0.70	544	0.61	1.77	6.8	2.1	610
C304706		2.92	15.85	0.11	0.9	0.041	2.96	22.2	55.6	0.75	670	0.39	1.00	7.4	2.0	650

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VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 20-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20243280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304667		461	157.0	<0.002	2.20	23.6	8.6	1	3.7	132.5	0.47	0.07	11.15	0.203	2.52	4.4
C304668		196.5	109.5	<0.002	0.83	39.6	4.6	<1	3.2	251	0.43	0.07	7.86	0.173	1.72	7.1
C304669		847	163.5	<0.002	2.29	34.6	8.8	1	7.7	136.0	0.48	0.16	10.55	0.210	2.84	4.0
C304670		688	149.5	<0.002	0.65	12.25	10.5	1	3.7	144.0	0.50	0.32	9.83	0.248	2.99	4.2
C304671		439	185.0	<0.002	1.82	25.0	10.2	1	8.0	68.4	0.54	0.10	13.10	0.241	2.94	4.6
C304672		91.9	128.5	<0.002	0.22	4.61	10.9	<1	1.9	299	0.57	<0.05	10.80	0.259	1.84	4.0
C304673		1660	196.5	<0.002	2.30	16.65	10.2	1	5.2	151.0	0.49	0.07	11.20	0.226	2.32	3.8
C304674		1140	206	<0.002	2.10	16.65	10.6	1	4.9	151.0	0.49	0.06	13.25	0.241	2.48	4.0
C304675		21.4	103.5	<0.002	0.18	1.78	11.1	1	1.8	449	0.60	0.06	13.85	0.282	1.18	4.3
C304676		745	193.0	<0.002	2.58	11.85	12.1	1	3.6	174.0	0.58	0.15	12.80	0.265	2.25	4.0
C304677		22.1	101.5	<0.002	0.42	4.44	11.3	1	1.9	328	0.56	0.07	10.45	0.270	1.32	4.1
C304678		22.4	102.0	<0.002	0.27	4.70	10.8	1	1.6	302	0.57	0.05	11.50	0.254	1.44	4.0
C304679		9100	114.5	<0.002	>10.0	233	6.8	2	11.2	90.3	0.32	2.25	6.73	0.145	1.63	4.4
C304680		20.8	109.0	<0.002	0.26	7.84	10.0	<1	1.7	245	0.54	<0.05	12.20	0.258	1.48	4.2
C304681		23.1	106.5	0.002	0.22	4.16	10.9	1	1.9	412	0.67	0.07	12.85	0.277	1.18	4.6
C304682		19.1	106.5	<0.002	0.20	12.45	9.9	1	2.2	287	0.66	0.05	12.25	0.254	1.31	4.5
C304683		26.4	111.0	<0.002	0.18	5.55	10.0	1	1.8	382	0.75	0.05	12.25	0.259	1.26	4.8
C304684		20.4	112.0	<0.002	0.09	2.01	11.4	<1	1.9	474	0.79	0.06	14.55	0.296	1.10	5.4
C304685		24.1	116.5	<0.002	0.03	2.04	11.6	<1	1.9	405	0.90	<0.05	15.55	0.273	1.07	6.7
C304686		236	157.5	<0.002	0.67	12.20	10.7	<1	3.4	185.5	0.77	0.05	13.60	0.261	2.19	6.0
C304687		21.0	124.5	<0.002	0.08	2.94	10.4	1	1.9	325	0.82	0.06	13.85	0.264	1.53	5.5
C304688		1820	170.0	<0.002	3.66	49.2	9.4	<1	6.7	84.1	0.51	0.23	11.35	0.219	2.61	4.4
C304689		19.2	107.0	<0.002	0.17	2.17	11.0	<1	1.7	369	0.79	0.07	12.20	0.274	1.11	5.3
C304690		18.3	117.5	<0.002	0.18	1.36	11.5	1	1.9	440	0.66	0.08	13.95	0.274	1.12	4.5
C304691		17.1	98.3	<0.002	0.14	1.10	10.5	<1	1.7	436	0.63	0.06	12.45	0.267	0.95	4.1
C304692		18.5	103.0	<0.002	0.16	1.17	10.3	1	1.9	392	0.64	0.09	12.80	0.261	1.08	4.0
C304693		18.2	122.0	<0.002	1.24	1.07	8.4	1	1.5	290	0.92	0.17	18.30	0.206	1.14	6.9
C304694		21.1	109.5	<0.002	0.91	1.55	11.4	1	1.7	398	0.57	0.17	11.80	0.257	1.10	4.2
C304695		13.7	91.1	0.003	3.04	1.18	10.7	2	1.5	1880	0.41	0.22	10.10	0.265	1.04	3.0
C304696		12.8	82.7	<0.002	2.62	9.15	10.4	1	2.1	2150	0.37	0.19	8.45	0.246	1.22	2.8
C304697		25.5	112.0	<0.002	2.05	2.84	10.4	1	1.5	482	0.45	0.20	11.40	0.201	1.66	4.1
C304698		24.1	105.0	<0.002	1.97	2.97	9.9	1	1.4	480	0.43	0.18	10.90	0.201	1.58	3.8
C304699		24.1	96.2	<0.002	1.03	2.39	10.2	1	1.5	325	0.58	0.14	13.35	0.248	1.30	3.8
C304700		32.7	85.6	0.002	2.41	1.69	13.7	1	2.0	549	0.60	0.31	15.85	0.280	1.37	4.8
C304701		0.7	2.0	<0.002	0.02	0.07	0.3	1	0.2	83.0	0.05	<0.05	0.14	0.008	0.02	0.3
C304702		26.3	86.6	0.002	1.45	4.64	10.8	1	1.4	238	0.48	0.15	12.85	0.219	1.22	3.6
C304703		33.2	105.5	<0.002	1.79	10.40	11.2	1	1.6	155.0	0.40	0.14	13.85	0.203	1.44	4.3
C304704		98.1	102.0	<0.002	1.50	11.35	9.7	1	1.7	169.5	0.47	0.22	10.55	0.209	1.45	4.0
C304705		89.9	91.5	<0.002	0.80	3.48	9.4	<1	1.4	1290	0.52	0.16	12.15	0.240	1.12	3.6
C304706		31.3	116.5	<0.002	0.83	4.86	10.4	1	1.5	414	0.56	0.12	12.75	0.246	1.71	3.8

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Finalized Date: 20-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20243280

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304667		59	5.1	11.8	1060	19.8	0.125
C304668		41	4.3	11.0	426	88.3	0.032
C304669		58	6.2	11.6	2480	29.8	0.089
C304670		72	5.6	12.2	622	21.5	0.016
C304671		67	9.5	10.0	1060	23.6	0.066
C304672		74	1.7	14.4	291	22.0	0.011
C304673		69	3.9	11.9	2060	18.6	0.322
C304674		72	4.2	12.1	1660	19.6	0.249
C304675		80	0.6	16.6	60	22.8	<0.005
C304676		81	5.9	14.3	1820	23.0	0.054
C304677		77	2.2	15.2	65	21.7	<0.005
C304678		70	2.0	14.1	54	21.4	<0.005
C304679		49	4.8	9.0	>10000	21.6	2.89
C304680		72	1.9	14.1	52	21.0	<0.005
C304681		78	1.2	16.5	72	23.6	<0.005
C304682		72	2.8	14.5	66	23.1	<0.005
C304683		72	1.3	14.9	72	25.0	0.008
C304684		82	0.7	17.8	69	23.3	<0.005
C304685		75	1.2	20.5	77	28.9	<0.005
C304686		74	4.5	13.3	554	25.2	0.067
C304687		74	1.5	15.5	62	25.4	0.006
C304688		68	6.3	11.3	2940	28.2	0.588
C304689		78	1.0	16.2	59	24.6	<0.005
C304690		77	0.6	18.2	52	22.9	<0.005
C304691		76	0.5	16.0	57	23.9	<0.005
C304692		72	1.0	16.6	58	22.1	<0.005
C304693		58	1.2	15.7	55	28.0	0.011
C304694		77	0.9	17.1	71	23.3	0.009
C304695		85	1.5	14.7	49	73.0	0.016
C304696		83	2.0	13.7	44	87.3	0.010
C304697		70	1.6	12.6	60	25.6	0.017
C304698		69	1.5	11.9	64	25.2	0.018
C304699		75	1.1	14.8	67	23.4	0.010
C304700		147	1.2	18.6	85	30.5	0.021
C304701		2	<0.1	2.4	3	2.3	<0.005
C304702		73	0.7	13.6	55	24.6	0.008
C304703		80	1.6	14.4	65	24.6	0.008
C304704		81	1.7	16.1	104	23.0	0.009
C304705		71	0.7	13.5	65	22.2	<0.005
C304706		75	1.0	13.6	70	23.4	0.006

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CERTIFICATE OF ANALYSIS WH20243280

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE WH20245439

Project: Klaza

P.O. No.: Batch 71

This report is for 33 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-35ad	Pulv 1 kg split to 95%<106 um DUP
LOG-21	Sample logging - ClientBarCode
SPL-21	Split sample - riffle splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um
BAG-01	Bulk Master for Storage
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
Ag-OG62	Ore Grade Ag - Four Acid	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Pb-OG62	Ore Grade Pb - Four Acid	
Zn-OG62	Ore Grade Zn - Four Acid	
As-OG62	Ore Grade As - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS WH20245439

Sample Description	Method	WEI-21	Au-GRA22	Ag-OG62	Pb-OG62	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Pb	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co
	Units	kg	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.02	0.05	1	0.001	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1
B700781		3.36					4.41	4.74	188.0	60	0.91	1.66	1.30	1.31	75.5	231
B700782		3.64					0.80	5.44	50.3	460	0.83	1.64	1.22	0.51	46.1	109.0
B700783		3.20					6.77	5.35	293	240	1.36	12.85	2.28	50.6	29.4	20.4
B700784		1.15					74.5	3.86	1210	100	0.85	237	1.18	4.32	21.4	19.2
B700785		1.16					55.1	5.27	1340	80	1.12	77.2	0.54	9.76	33.6	14.4
B700786		1.22					15.70	6.28	185.0	850	1.38	66.4	3.02	7.85	49.1	10.2
B700787		4.93					0.04	0.10	0.3	90	0.06	0.11	33.1	0.02	1.34	0.5
B700788		1.30					13.60	6.48	242	580	1.20	36.0	1.44	20.7	43.7	10.9
B700789		1.04		382		4.11	>100	3.19	1540	90	0.59	650	0.62	637	21.9	15.7
B700790		1.60					3.51	6.47	499	530	1.31	4.39	1.74	36.2	37.8	10.2
B700791		1.30		354		4.01	>100	2.47	2360	100	0.47	648	2.92	652	16.75	6.0
B700792		1.36					11.65	6.54	965	490	1.15	15.95	1.84	5.04	48.1	12.8
B700793		0.26	12.00	272	1.575	2.73	>100	3.46	>10000	180	0.71	124.5	2.32	400	22.8	12.4
B700794		1.16					8.01	5.65	870	340	1.13	8.69	1.31	17.95	41.8	7.6
B700795		1.20					12.90	6.92	1265	790	1.31	9.66	0.95	26.1	40.5	9.9
B700796		1.04					22.3	5.80	2110	230	1.13	12.85	0.28	41.7	40.2	7.6
B700517		1.16					3.29	6.50	267	710	1.30	3.79	1.68	3.66	55.4	6.3
B700518		1.23					1.14	6.44	111.5	2530	1.37	2.00	2.02	1.57	46.3	80.2
B700519		1.18					0.37	5.47	42.6	280	1.11	0.33	3.18	1.70	42.1	7.4
B700520		0.26				1.455	88.3	4.47	3810	1080	0.91	44.5	1.49	186.5	29.7	54.6
B700521		1.23					6.75	3.72	1435	250	0.76	7.64	1.45	69.3	23.5	12.7
B700522		0.37					8.12	3.89	1220	240	0.84	8.84	1.70	37.4	25.9	11.1
B700523		1.33					4.51	6.30	341	280	1.14	4.84	1.30	6.26	37.8	81.3
B700524		1.42					1.27	6.32	103.0	570	1.09	1.43	2.24	2.47	41.6	63.1
B700525		<0.02					1.47	6.02	111.5	540	1.20	1.50	2.16	2.51	44.2	65.3
B700526		1.14					8.49	5.49	1485	300	1.24	0.28	2.43	76.3	33.3	9.1
B700527		1.20					3.78	6.63	300	680	1.43	3.50	1.93	6.04	61.9	11.5
B700528		1.13					5.33	6.32	203	1050	1.14	7.77	3.55	6.57	45.0	9.0
B700529		1.22					18.60	4.65	465	230	0.99	23.1	1.88	63.3	30.8	7.2
B700530		1.84					2.21	6.14	280	530	1.46	2.57	2.59	2.11	50.8	35.8
B700531		1.26					2.58	5.81	155.0	570	1.31	3.06	2.04	2.60	42.7	60.1
B700532		0.99					1.80	6.69	62.2	1320	1.92	2.73	1.82	2.03	49.2	6.6
B700533		0.92					1.25	7.15	72.1	440	1.52	0.95	1.68	0.96	52.1	24.7

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Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245439

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01
B700781		36	5.24	2960	12.80	11.40	0.17	0.3	0.355	2.39	44.5	5.5	0.75	565	14.80	0.05
B700782		17	5.47	666	10.40	11.55	0.15	0.2	0.109	2.78	27.6	7.3	0.59	175	41.7	0.13
B700783		19	33.7	303	12.45	17.55	0.12	0.8	0.363	2.09	15.3	20.8	0.86	1930	9.66	0.04
B700784		12	4.28	3540	15.95	9.81	0.11	0.5	1.280	1.91	10.7	10.0	0.51	1020	5.14	0.02
B700785		14	6.01	4810	10.75	12.95	0.10	0.8	1.540	2.62	17.3	11.2	0.37	593	8.39	0.03
B700786		12	16.75	81.4	4.76	14.90	0.10	0.7	0.227	2.75	28.3	50.2	1.10	1580	3.31	0.04
B700787		2	0.06	3.9	0.16	0.38	0.06	0.1	<0.005	0.04	1.5	1.1	2.07	132	0.11	0.04
B700788		13	20.1	576	7.71	15.10	0.10	0.8	1.575	2.85	24.8	54.5	0.76	2260	2.04	0.16
B700789		10	4.57	7540	20.8	8.24	0.11	0.4	21.6	1.53	12.1	4.6	0.31	2780	1.31	0.02
B700790		10	10.85	66.8	5.66	17.10	0.10	1.1	0.827	3.20	18.6	10.6	0.61	2540	1.34	0.03
B700791		16	6.27	5020	12.70	6.70	0.07	0.7	33.8	1.09	8.5	15.3	0.98	2980	9.97	0.02
B700792		18	12.60	197.0	6.63	15.90	0.10	1.0	0.360	2.90	25.4	15.8	0.60	1400	0.93	0.70
B700793		33	9.27	2960	10.90	9.32	0.08	0.6	13.00	1.53	11.1	15.8	0.93	4010	25.3	0.02
B700794		12	8.72	146.5	5.93	16.15	0.09	0.9	0.274	2.64	22.5	12.6	0.57	2050	4.03	0.02
B700795		13	9.08	336	6.56	19.10	0.08	0.9	0.325	3.30	21.2	8.6	0.53	2390	1.33	0.02
B700796		13	5.97	635	9.77	15.45	0.11	0.7	0.535	2.88	22.6	7.5	0.34	660	1.03	0.03
B700517		14	11.15	31.7	4.93	16.45	0.11	1.1	0.150	3.06	30.4	26.5	0.55	1060	1.29	0.07
B700518		20	15.25	8.5	6.57	16.75	0.12	1.8	0.109	3.00	22.5	8.3	0.72	1300	2.59	0.04
B700519		10	14.20	11.4	2.70	12.55	0.12	0.7	0.063	2.40	23.4	25.4	0.93	2500	0.72	0.03
B700520		35	9.23	1230	10.80	11.25	0.10	0.8	4.19	1.86	16.2	22.7	0.50	1800	16.55	0.14
B700521		12	5.38	105.5	6.19	9.84	0.07	0.4	1.470	1.80	12.6	24.4	0.54	1560	3.42	0.02
B700522		12	5.93	100.5	6.03	11.10	0.07	0.5	0.866	1.88	14.1	24.5	0.63	1760	3.16	0.02
B700523		13	8.98	99.4	6.97	13.65	0.10	0.7	0.208	2.97	20.7	22.2	0.55	951	1.72	0.03
B700524		11	10.55	21.5	6.58	13.00	0.10	0.7	0.148	2.92	22.2	16.0	0.81	2280	1.98	0.03
B700525		12	10.80	23.9	6.38	13.70	0.10	0.7	0.153	2.77	23.6	16.7	0.78	2260	1.92	0.03
B700526		9	16.15	69.8	3.19	12.65	0.08	0.7	0.605	2.26	17.4	46.5	0.78	1270	7.97	0.04
B700527		12	14.20	36.6	3.79	16.10	0.12	0.9	0.072	3.05	35.7	51.6	0.70	723	0.80	0.04
B700528		10	13.65	58.1	4.42	14.35	0.11	0.8	0.110	2.82	24.6	71.5	0.88	1340	0.45	0.30
B700529		14	6.32	750	5.62	15.20	0.08	0.7	1.445	2.27	16.6	16.4	0.56	2000	1.38	0.02
B700530		13	15.05	24.1	5.79	14.70	0.12	1.0	0.098	2.52	27.3	192.5	0.92	1220	1.31	0.03
B700531		16	15.05	33.5	6.62	12.95	0.10	1.8	0.046	2.62	20.3	23.3	0.77	644	4.81	0.04
B700532		17	17.95	72.6	2.76	17.95	0.12	2.4	0.086	3.10	24.9	36.5	0.75	838	5.78	0.04
B700533		15	8.07	22.3	4.68	17.70	0.14	1.8	0.076	3.52	27.1	22.6	0.71	747	6.81	0.04

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Finalized Date: 4-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20245439

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01
B700781		1.1	18.1	1110	53.0	135.5	0.003	>10.0	161.0	14.9	17	12.8	39.9	0.08	0.54	4.83
B700782		1.5	7.1	420	26.2	123.5	0.003	>10.0	7.47	11.5	13	8.0	72.6	0.13	0.30	5.54
B700783		3.5	11.3	970	2070	117.0	<0.002	>10.0	79.1	13.4	5	15.4	78.7	0.22	1.79	4.75
B700784		3.6	3.1	310	562	120.5	<0.002	>10.0	232	6.0	1	9.7	34.4	0.28	1.18	6.84
B700785		4.4	3.3	410	431	166.0	<0.002	>10.0	262	8.2	1	11.5	23.2	0.36	0.77	8.92
B700786		6.4	3.0	510	266	168.5	<0.002	1.80	24.6	9.6	1	2.9	135.0	0.52	0.23	12.20
B700787		0.2	0.6	80	1.0	1.2	<0.002	<0.01	0.20	0.2	1	<0.2	78.1	<0.05	<0.05	0.19
B700788		6.3	3.1	520	207	163.5	<0.002	3.02	133.0	9.3	1	3.6	97.1	0.49	0.13	12.10
B700789		2.9	1.9	220	7810	96.6	<0.002	>10.0	82.7	4.4	3	11.3	19.9	0.27	3.93	6.25
B700790		8.1	3.1	600	304	165.0	<0.002	4.53	19.05	11.2	<1	7.0	69.1	0.74	<0.05	11.15
B700791		2.8	2.3	220	7630	67.0	<0.002	>10.0	306	3.2	3	6.9	78.7	0.21	4.37	4.09
B700792		8.0	3.2	550	337	158.0	<0.002	4.87	26.8	10.7	<1	4.7	163.5	0.62	0.28	12.10
B700793		3.5	13.9	250	>10000	90.2	<0.002	9.76	622	4.7	1	15.9	79.3	0.26	0.76	5.89
B700794		6.2	2.5	390	612	153.5	<0.002	4.97	42.0	7.9	1	7.5	47.5	0.53	0.15	14.50
B700795		6.8	3.3	520	1775	191.5	<0.002	5.19	45.4	9.8	<1	10.6	40.7	0.49	0.18	10.35
B700796		5.7	2.4	410	1595	202	<0.002	9.85	82.6	8.5	<1	13.7	17.2	0.43	0.16	10.55
B700517		7.7	3.0	500	493	186.5	<0.002	3.40	10.85	9.5	<1	5.6	67.3	0.69	0.08	15.55
B700518		3.9	10.5	570	83.0	174.5	0.002	6.47	5.90	8.8	1	3.8	267	0.30	0.37	8.40
B700519		6.3	2.5	450	37.6	146.5	<0.002	1.22	21.6	8.5	1	1.9	71.0	0.45	0.15	10.60
B700520		4.3	14.4	340	8740	107.0	0.002	>10.0	228	6.2	2	10.4	87.7	0.33	1.98	7.16
B700521		3.3	2.4	280	444	119.0	<0.002	6.31	37.6	5.0	1	4.9	34.5	0.24	0.22	6.79
B700522		3.6	3.1	280	511	131.5	<0.002	5.80	36.0	5.5	1	5.8	40.6	0.27	0.16	7.68
B700523		4.7	9.2	480	183.0	161.5	<0.002	6.89	45.0	7.9	1	5.9	44.4	0.36	0.57	10.00
B700524		4.5	5.4	490	63.0	161.0	0.002	5.90	8.72	8.2	2	4.1	93.3	0.35	0.48	10.30
B700525		4.8	5.3	470	70.1	165.5	0.002	5.68	9.53	8.4	2	4.1	93.3	0.36	0.49	10.60
B700526		5.4	3.2	400	2240	140.5	0.002	2.29	64.5	7.5	<1	5.2	223	0.39	0.12	9.39
B700527		6.1	3.0	450	523	188.0	<0.002	2.93	24.2	8.6	1	6.1	84.5	0.49	0.18	17.55
B700528		6.3	3.1	470	394	134.0	<0.002	2.37	15.30	8.9	<1	3.5	138.5	0.44	0.13	15.15
B700529		4.7	2.3	350	567	136.5	<0.002	5.48	86.7	6.4	1	11.1	48.2	0.40	0.30	10.35
B700530		7.0	4.3	490	145.5	153.0	<0.002	4.76	17.40	9.3	1	5.9	144.0	0.49	0.21	10.25
B700531		5.1	6.3	530	95.9	144.5	<0.002	6.00	18.10	5.2	1	2.6	172.0	0.34	0.36	9.58
B700532		4.8	9.1	540	156.5	178.0	<0.002	1.84	29.7	5.6	1	3.0	188.5	0.36	0.08	11.10
B700533		3.9	4.5	570	99.2	206	<0.002	4.40	11.60	6.5	1	5.1	47.9	0.27	0.39	12.55

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Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245439

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24	As-OG62
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Au	As
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.005	0.001
B700781		0.142	2.28	1.9	143	7.9	10.5	139	7.6	0.285	
B700782		0.094	1.69	2.0	112	6.4	7.1	34	5.8	0.079	
B700783		0.210	1.96	5.6	112	14.2	10.9	4350	27.4	0.486	
B700784		0.118	1.64	2.7	40	4.6	8.6	319	12.0	5.03	
B700785		0.152	2.30	2.7	58	5.3	11.4	713	17.0	3.47	
B700786		0.200	2.81	4.8	60	6.9	11.5	536	18.5	0.085	
B700787		0.006	<0.02	0.2	2	0.1	2.5	4	2.0	<0.005	
B700788		0.203	2.74	4.2	61	11.9	12.4	1360	18.9	0.357	
B700789		0.086	2.85	2.3	28	29.0	6.3	>10000	10.1	2.13	
B700790		0.258	3.10	4.0	78	10.5	12.7	2490	25.3	0.151	
B700791		0.083	1.48	4.0	25	4.0	5.7	>10000	21.8	1.755	
B700792		0.230	2.19	4.7	72	3.2	14.0	395	22.4	1.350	
B700793		0.103	1.61	7.9	35	4.6	7.8	>10000	18.2	>10.0	1.220
B700794		0.171	2.35	5.8	52	6.1	8.3	1390	21.6	0.241	
B700795		0.217	2.92	3.0	64	14.2	10.5	1600	20.0	0.394	
B700796		0.171	2.41	3.4	57	6.1	10.9	2540	17.6	2.39	
B700517		0.200	2.64	5.7	59	7.6	10.9	270	21.7	0.124	
B700518		0.171	2.62	8.3	66	3.9	12.8	125	59.3	0.086	
B700519		0.183	2.66	4.5	54	4.0	12.9	154	17.7	0.037	
B700520		0.133	1.77	4.4	47	4.5	9.5	>10000	21.7	2.82	
B700521		0.103	1.63	3.8	36	4.5	6.2	4410	10.9	0.942	
B700522		0.106	1.67	4.1	37	4.7	6.8	2340	12.6	0.991	
B700523		0.163	2.38	4.5	57	3.9	9.0	460	16.1	0.192	
B700524		0.164	2.49	3.8	57	3.1	10.1	199	18.0	0.072	
B700525		0.160	2.62	4.0	55	3.5	10.5	190	17.6	0.069	
B700526		0.168	1.86	5.1	51	4.6	11.3	3440	16.2	1.235	
B700527		0.174	2.33	4.4	54	5.5	11.2	372	21.9	0.501	
B700528		0.196	1.96	4.3	58	2.1	13.3	420	23.7	0.126	
B700529		0.138	1.85	4.5	44	7.5	7.2	4210	17.1	0.385	
B700530		0.203	2.21	4.9	63	3.7	12.1	177	30.8	0.259	
B700531		0.136	2.23	4.3	46	1.9	10.7	207	59.9	0.151	
B700532		0.144	2.34	5.2	45	2.5	11.9	170	75.6	0.033	
B700533		0.142	2.42	4.4	49	2.6	10.3	84	45.0	0.038	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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www.alsglobal.com/geochemistry

To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245439

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	BAG-01	CRU-32	CRU-QC	LOG-21
	LOG-21d	LOG-23	PUL-35a	PUL-35ad
	PUL-QC	SPL-21	SPL-21d	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Ag-OG62	As-OG62	Au-AA24	Au-GRA22
	ME-MS61	ME-OG62	Pb-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE WH20245442

Project: Klaza

P.O. No.: Batch 78

This report is for 40 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245442

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304707		4.16		0.09	6.93	8.1	2270	1.57	0.32	2.79	0.20	45.9	6.4	12	16.70	6.2
C304708		2.10		0.47	7.00	33.4	630	1.51	0.44	2.76	0.77	53.7	8.3	9	19.70	10.7
C304709		3.67		0.18	7.29	19.2	1210	1.29	0.46	2.55	0.72	57.3	9.0	9	15.40	8.9
C304710		1.26		2.60	6.60	188.0	450	1.34	3.45	1.64	1.46	49.2	6.8	9	13.40	40.1
C304711		6.46		0.12	7.16	7.2	1730	1.59	0.43	2.70	0.24	55.1	6.8	12	11.75	7.4
C304712		0.26		9.81	6.47	1940	210	1.37	5.47	1.71	36.6	44.0	11.6	28	16.50	193.0
C304713		1.20		0.17	7.06	8.2	220	1.47	0.86	2.83	0.26	43.0	10.6	11	15.35	14.4
C304714		4.61		0.15	7.54	9.0	2220	1.75	0.66	2.96	0.32	53.3	8.6	12	16.05	8.5
C304715		1.44		0.22	7.85	6.1	680	1.61	0.83	3.34	0.14	51.8	13.2	30	11.60	32.5
C304716		5.14		0.09	7.64	7.9	2310	1.61	0.35	2.76	0.15	55.6	8.3	11	12.10	6.1
C304717		0.26	1.430	95.3	4.57	3870	250	1.10	49.0	1.57	201	32.6	62.4	36	10.15	1245
C304718		1.17		0.30	8.31	30.6	1410	1.85	0.72	2.83	0.25	58.4	9.1	11	15.00	4.6
C304719		3.09		0.16	7.31	8.9	2560	1.63	0.41	2.71	0.61	54.3	9.5	12	10.95	6.4
C304720		3.53		0.44	6.92	38.5	1490	1.50	0.64	2.95	3.13	46.8	7.8	10	18.10	8.7
C304721		6.80		0.21	7.14	18.4	2390	1.34	0.45	1.83	0.54	51.1	9.0	9	12.25	8.9
C304722		6.76		0.13	7.46	7.6	3180	1.45	0.27	2.40	0.38	43.0	8.7	12	14.75	9.1
C304723		6.14		0.16	8.21	10.2	2850	1.25	0.40	1.85	0.40	52.9	8.2	10	10.20	12.3
C304724		1.89		0.16	7.84	9.6	2610	1.25	0.40	1.83	0.40	49.2	8.4	10	9.36	14.6
C304725		6.26		0.15	7.80	6.7	2230	1.28	0.52	1.90	0.36	48.3	8.4	9	13.50	10.6
C304726		2.28		10.70	7.29	1240	1410	1.67	0.38	2.89	27.4	46.5	7.6	10	18.50	28.7
C304727		2.13		1.38	7.63	44.7	2470	1.38	0.20	2.58	9.27	44.5	5.7	9	21.0	17.6
C304728		4.77		0.22	7.45	15.0	2740	1.36	0.22	2.55	0.63	54.7	7.1	10	16.45	12.1
C304729		6.51		0.33	7.66	15.8	2390	1.54	0.30	2.79	0.99	48.6	7.7	10	14.65	27.3
C304730		1.22		0.60	7.35	25.9	2800	1.54	0.68	2.90	3.65	48.2	8.1	10	17.65	22.2
C304731		1.27		1.49	7.00	60.8	3290	1.25	0.28	3.14	8.30	54.5	7.8	9	15.15	17.4
C304732		4.17		1.17	7.27	82.3	1660	1.62	1.07	2.79	4.31	49.7	8.6	10	17.85	15.5
C304733		1.88		0.29	7.03	36.6	4230	1.94	0.23	3.94	0.30	84.5	8.5	22	21.4	16.9
C304734		1.11		0.31	6.28	22.7	490	1.86	0.25	3.33	0.51	76.3	7.8	20	23.6	11.4
C304735		<0.02		0.33	6.44	23.3	480	1.88	0.26	3.43	0.55	81.4	8.4	21	24.7	12.5
C304736		4.19		0.12	7.46	16.1	3000	2.13	0.29	3.78	0.19	95.8	10.2	23	27.7	7.6
C304737		1.19		0.21	7.58	18.5	1030	1.92	0.24	4.34	0.51	77.9	9.1	21	24.1	10.4
C304738		6.33		0.07	7.48	6.0	1900	1.97	0.10	3.60	0.30	54.5	6.8	17	16.20	8.3
C304739		6.46		0.01	7.28	5.2	1160	1.94	0.05	3.12	0.23	54.3	6.4	15	16.15	2.9
C304740		5.81		0.08	7.54	9.0	1070	1.89	0.07	3.11	0.29	58.4	6.6	15	16.20	6.6
C304741		4.81		0.19	7.27	25.1	580	1.68	0.24	3.45	0.28	57.0	6.6	19	18.05	10.3
C304742		4.09		0.04	7.17	7.5	210	1.90	0.13	2.79	0.07	51.6	5.8	30	26.8	10.9
C304743		4.84		0.04	7.05	5.3	160	2.09	0.09	2.81	0.05	56.3	6.3	27	28.5	13.3
C304744		4.02		0.14	7.29	13.2	260	2.18	0.16	2.60	0.09	53.6	6.6	32	29.8	17.6
C304745		4.53		0.55	7.40	6.4	440	1.52	1.11	2.11	1.38	50.8	6.5	14	14.85	9.7
C304746		5.31		0.01	0.08	<0.2	20	0.05	0.02	34.9	<0.02	1.06	0.6	1	0.09	1.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245442

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304707		2.85	16.25	0.12	0.9	0.046	2.84	23.2	45.6	0.74	655	0.37	1.93	8.4	2.3	600
C304708		2.64	15.80	0.10	1.0	0.047	3.22	29.6	49.0	0.85	1280	0.56	0.14	7.9	2.4	600
C304709		2.79	17.40	0.10	1.1	0.063	2.65	30.9	97.6	0.76	1120	0.84	0.15	8.9	2.5	590
C304710		4.31	14.65	0.08	0.8	0.149	3.09	27.6	15.4	0.61	1540	1.71	0.08	6.8	2.5	510
C304711		2.73	16.75	0.11	1.0	0.093	2.25	28.8	17.3	0.75	687	3.04	2.65	9.3	2.6	590
C304712		5.90	15.20	0.06	0.9	0.690	2.86	24.5	38.5	0.72	2020	8.55	0.07	6.3	15.9	510
C304713		3.65	17.00	0.16	0.9	0.042	2.79	22.3	40.4	0.75	550	1.46	1.87	5.2	4.6	590
C304714		2.83	17.65	0.17	1.0	0.060	2.84	27.9	33.2	0.73	672	0.59	2.07	8.4	2.8	670
C304715		3.92	20.6	0.18	1.8	0.038	2.11	26.0	31.4	1.54	547	2.66	2.29	6.7	8.5	920
C304716		3.05	16.65	0.16	1.0	0.035	2.71	30.9	27.8	0.86	530	0.60	2.18	8.2	2.8	640
C304717		11.80	12.30	0.13	0.7	4.39	1.93	16.7	31.7	0.54	1870	19.20	0.15	4.8	15.5	380
C304718		4.88	20.1	0.17	1.1	0.127	2.65	31.9	34.4	1.01	1060	2.50	1.87	9.6	3.3	670
C304719		3.07	16.75	0.19	1.0	0.043	2.61	28.6	16.9	0.91	587	0.60	2.11	8.5	3.1	610
C304720		2.98	15.80	0.18	0.9	0.092	3.14	25.3	44.6	0.89	1060	2.04	0.55	7.7	2.5	570
C304721		2.85	16.45	0.18	0.8	0.030	2.26	26.6	64.5	0.59	631	1.26	0.07	7.2	2.8	590
C304722		2.99	16.95	0.17	0.9	0.039	2.77	22.4	25.7	0.70	549	0.77	2.02	8.6	3.1	640
C304723		3.04	18.00	0.17	1.1	0.041	2.21	28.3	50.2	0.61	609	0.62	0.26	9.4	3.0	700
C304724		3.06	17.30	0.17	0.9	0.038	2.04	25.4	48.3	0.60	606	0.62	0.24	8.9	2.9	680
C304725		3.41	17.90	0.17	1.0	0.048	2.76	25.1	39.8	0.55	550	1.58	0.44	8.6	2.9	640
C304726		3.29	16.20	0.18	0.9	0.194	3.16	24.9	211	0.85	1180	0.73	0.08	7.7	2.5	650
C304727		2.99	16.65	0.16	0.9	0.092	3.01	22.7	171.0	0.85	680	0.37	0.14	8.4	2.2	660
C304728		2.92	17.20	0.18	1.0	0.043	2.86	29.5	191.0	0.85	641	0.67	0.17	8.2	2.8	610
C304729		3.22	16.90	0.19	1.1	0.050	2.98	25.1	146.0	0.90	692	0.63	0.90	8.4	2.6	680
C304730		3.01	17.05	0.20	1.1	0.140	3.45	25.3	42.4	0.85	758	0.68	1.18	8.7	2.7	640
C304731		3.09	15.90	0.20	0.9	0.043	3.23	30.6	43.0	0.83	741	0.35	0.69	7.5	2.6	570
C304732		3.20	16.05	0.21	1.1	0.062	3.27	27.1	177.0	0.88	1490	0.46	0.08	8.1	2.6	620
C304733		2.59	17.40	0.21	3.2	0.029	2.96	46.2	42.1	1.45	849	2.67	0.05	12.4	5.8	830
C304734		2.44	15.80	0.14	2.9	0.027	2.58	43.3	58.3	1.23	752	1.55	0.05	11.3	5.5	750
C304735		2.48	16.45	0.19	3.0	0.032	2.65	45.1	62.2	1.26	767	1.57	0.05	12.0	5.7	780
C304736		3.01	19.40	0.19	3.5	0.029	3.25	52.8	90.3	1.36	765	2.44	0.44	13.7	6.8	890
C304737		3.05	18.20	0.21	3.6	0.029	3.09	43.2	39.4	1.42	1030	2.91	0.08	12.0	6.5	1120
C304738		2.63	19.05	0.16	2.8	0.028	3.33	28.3	25.9	1.03	731	1.40	0.22	10.3	5.7	980
C304739		2.37	18.80	0.20	2.3	0.026	3.37	28.1	23.9	0.95	646	0.43	0.05	9.8	5.2	800
C304740		2.42	19.20	0.18	2.2	0.025	3.48	30.9	27.4	0.96	676	2.66	0.05	10.2	5.5	820
C304741		2.54	17.95	0.19	3.1	0.033	3.38	30.0	37.9	1.08	816	3.09	0.06	9.6	7.8	940
C304742		2.23	18.80	0.19	4.0	0.024	3.26	26.7	34.7	0.98	431	0.34	0.05	9.2	18.9	690
C304743		2.23	19.50	0.20	3.7	0.029	3.21	29.4	39.8	0.99	409	0.39	0.05	9.6	18.0	710
C304744		2.01	20.7	0.16	4.6	0.028	3.23	28.6	45.1	0.94	447	2.30	0.05	10.1	21.9	680
C304745		2.60	18.50	0.18	1.9	0.023	3.15	26.0	85.6	0.83	313	2.93	0.42	4.0	4.2	640
C304746		0.10	0.26	0.11	<0.1	<0.005	0.02	1.2	1.3	1.61	90	0.05	0.02	0.1	1.8	60

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CERTIFICATE OF ANALYSIS WH20245442

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304707		25.3	113.5	<0.002	0.22	2.98	11.1	1	1.7	373	0.62	0.09	14.10	0.252	1.48	4.4
C304708		45.4	160.0	<0.002	1.12	12.80	11.1	<1	1.9	98.1	0.59	0.18	14.20	0.246	2.81	4.9
C304709		27.3	114.5	0.003	0.97	11.85	10.5	1	2.1	111.0	0.82	0.16	13.50	0.252	1.79	4.4
C304710		245	166.0	<0.002	3.27	20.2	9.2	<1	6.5	53.1	0.57	0.08	12.35	0.215	2.53	4.4
C304711		19.3	93.7	0.016	0.23	2.14	11.6	<1	2.1	391	0.71	0.11	14.30	0.256	1.09	5.0
C304712		1775	169.0	<0.002	3.42	50.4	9.2	<1	6.2	80.5	0.51	0.21	11.80	0.202	2.54	4.6
C304713		23.1	125.0	<0.002	2.40	2.07	9.5	<1	1.9	1050	0.41	0.24	11.65	0.177	1.78	4.5
C304714		27.1	108.5	<0.002	1.01	2.07	11.6	<1	2.2	470	0.65	0.18	13.15	0.261	1.49	4.1
C304715		20.0	94.0	0.002	2.50	1.71	13.1	1	2.1	695	0.47	0.28	9.34	0.344	1.42	2.9
C304716		21.3	107.0	<0.002	1.01	1.64	11.2	<1	1.8	511	0.64	0.13	14.95	0.252	1.32	5.2
C304717		9410	114.5	0.002	>10.0	238	7.1	1	11.5	92.1	0.36	2.06	7.64	0.141	1.87	4.9
C304718		26.6	155.5	<0.002	1.02	2.95	12.4	<1	3.8	455	0.77	0.14	16.15	0.278	2.14	5.9
C304719		36.7	114.0	0.003	0.98	2.26	11.0	<1	2.1	878	0.68	0.14	15.20	0.248	1.50	5.4
C304720		104.5	149.5	0.005	0.88	7.18	9.7	<1	2.3	201	0.62	0.12	13.20	0.232	2.50	4.9
C304721		20.7	87.6	0.005	1.11	15.65	10.1	1	2.0	137.0	0.55	0.08	13.70	0.235	1.45	2.7
C304722		28.3	107.5	0.002	0.59	4.92	10.8	<1	2.1	369	0.69	0.11	12.00	0.259	1.23	4.5
C304723		17.7	90.8	<0.002	0.90	19.85	11.5	<1	2.6	140.0	0.77	0.14	15.35	0.280	1.17	2.9
C304724		17.0	85.4	<0.002	0.92	19.55	11.0	<1	2.5	133.5	0.72	0.14	14.55	0.266	1.10	2.9
C304725		24.3	103.0	<0.002	0.97	13.35	11.2	<1	2.1	140.0	0.71	0.17	14.30	0.267	1.33	3.0
C304726		2100	139.5	0.002	1.58	34.7	10.3	<1	4.3	162.5	0.60	0.12	11.70	0.251	2.01	4.6
C304727		130.5	104.5	<0.002	0.38	22.6	10.9	<1	2.9	155.0	0.63	0.09	11.95	0.264	1.64	3.2
C304728		29.8	119.5	<0.002	0.35	14.35	10.9	<1	2.4	154.0	0.64	0.07	13.30	0.246	1.56	3.1
C304729		44.5	118.5	<0.002	0.42	9.23	11.2	<1	2.8	239	0.70	0.07	14.00	0.265	1.58	4.5
C304730		69.3	150.5	<0.002	0.73	7.18	11.4	<1	2.3	261	0.73	0.06	13.25	0.257	2.21	5.0
C304731		91.9	152.0	<0.002	1.01	8.81	10.2	<1	2.4	250	0.58	0.18	13.20	0.227	2.06	4.8
C304732		203	156.5	<0.002	1.24	12.85	10.7	<1	2.9	150.5	0.70	0.14	14.90	0.240	2.46	5.5
C304733		19.0	161.0	<0.002	0.27	18.30	8.3	<1	1.4	271	0.88	<0.05	15.00	0.272	2.98	7.7
C304734		23.2	132.0	<0.002	0.23	26.1	7.6	<1	1.3	199.0	0.78	<0.05	13.85	0.245	2.46	7.8
C304735		22.9	139.0	<0.002	0.23	27.8	7.9	<1	1.5	205	0.79	<0.05	14.20	0.250	2.51	7.9
C304736		20.1	165.5	<0.002	0.23	13.10	9.2	<1	1.6	338	0.94	<0.05	17.15	0.284	2.95	6.9
C304737		27.3	149.0	<0.002	0.15	24.0	8.4	<1	1.7	287	0.82	<0.05	13.45	0.308	2.62	7.4
C304738		21.0	129.0	<0.002	0.06	11.90	6.5	<1	1.5	298	0.78	<0.05	10.35	0.259	2.44	5.8
C304739		13.5	138.0	<0.002	0.04	9.89	5.8	<1	1.4	264	0.78	<0.05	10.65	0.223	2.58	4.1
C304740		37.5	150.5	<0.002	0.13	12.70	6.1	<1	1.5	260	0.79	<0.05	11.40	0.235	2.82	8.3
C304741		24.7	137.0	0.002	0.29	19.75	6.2	<1	1.9	236	0.72	<0.05	10.50	0.265	2.45	5.7
C304742		10.7	136.0	<0.002	0.02	11.20	5.6	<1	1.6	326	0.75	<0.05	10.90	0.262	2.13	4.6
C304743		10.0	147.5	<0.002	0.01	11.05	5.9	<1	1.7	290	0.76	<0.05	11.35	0.259	2.19	4.7
C304744		18.8	129.0	<0.002	0.10	9.98	6.1	<1	1.9	280	0.81	<0.05	11.15	0.264	1.98	5.5
C304745		44.2	159.0	<0.002	2.19	7.43	6.2	<1	1.5	187.0	0.32	0.17	11.75	0.147	2.09	4.8
C304746		0.7	0.8	<0.002	<0.01	0.08	0.2	<1	<0.2	83.5	<0.05	<0.05	0.08	<0.005	<0.02	0.1

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 4-JAN-2021
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20245442

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304707		70	0.9	16.2	61	24.1	<0.005
C304708		71	3.5	14.5	99	24.0	0.015
C304709		68	2.9	15.9	93	26.0	0.014
C304710		60	4.2	11.3	131	19.3	0.080
C304711		68	1.0	18.3	68	24.6	0.010
C304712		63	5.5	11.8	2820	28.4	0.634
C304713		63	1.6	14.0	59	23.9	0.041
C304714		76	1.3	17.1	78	26.1	0.016
C304715		101	1.7	18.2	71	71.4	0.016
C304716		74	1.0	17.0	51	27.8	0.008
C304717		50	5.1	10.3	>10000	25.1	2.93
C304718		80	4.1	18.1	100	28.4	0.022
C304719		71	1.1	16.3	74	26.3	0.021
C304720		66	2.8	13.7	259	24.4	0.022
C304721		69	3.5	13.0	66	23.8	0.026
C304722		74	1.5	16.7	65	22.8	0.006
C304723		75	3.6	17.7	86	27.8	0.009
C304724		73	3.8	17.0	85	25.5	0.009
C304725		76	4.4	15.8	77	24.3	0.008
C304726		73	3.9	13.9	1350	23.8	0.465
C304727		76	2.6	14.5	467	24.7	0.062
C304728		70	3.2	15.6	85	27.5	0.013
C304729		77	2.3	15.7	103	29.1	0.013
C304730		75	1.6	14.2	255	29.7	0.015
C304731		67	2.0	14.7	406	27.5	0.107
C304732		72	3.6	14.1	266	29.2	0.081
C304733		76	4.1	16.6	64	127.0	0.025
C304734		67	4.5	15.3	72	114.5	0.011
C304735		69	4.6	16.4	75	119.0	0.010
C304736		78	2.2	17.3	72	136.0	<0.005
C304737		79	3.4	16.0	100	147.5	0.007
C304738		62	1.8	13.2	94	104.0	<0.005
C304739		53	1.7	12.5	102	76.5	<0.005
C304740		55	2.1	13.1	96	80.6	0.005
C304741		61	2.8	13.2	89	119.5	0.019
C304742		52	2.3	11.4	54	148.0	<0.005
C304743		51	1.5	12.4	55	137.0	<0.005
C304744		53	1.8	12.3	53	176.5	<0.005
C304745		51	1.3	10.0	112	56.0	0.005
C304746		1	<0.1	2.1	3	1.7	<0.005

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To: **ROCKHAVEN RESOURCES LTD.**
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(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 4-JAN-2021
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245442

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

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VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE WH20245443

Project: Klaza

P.O. No.: Batch 79

This report is for 27 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 26-OCT-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	MATT DUMALA LIZ SMITH	JACK MORTON M TURNER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Zn-OG62	Ore Grade Zn - Four Acid	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Saa Traxler, General Manager, North Vancouver

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Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245443

Sample Description	Method	WEI-21	Zn-OG62	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Zn	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
C304747		5.59		0.62	6.97	16.3	600	1.43	0.45	2.83	3.00	41.3	5.3	15	11.50	7.5
C304748		5.95		0.52	7.02	8.3	710	1.36	0.35	2.34	2.69	45.6	5.6	14	9.33	10.1
C304749		6.20		0.33	7.29	7.9	550	1.58	0.44	2.29	1.75	48.5	5.6	16	9.61	7.3
C304750		0.26		10.20	6.74	1975	260	1.45	6.20	1.75	38.7	49.5	11.5	29	17.85	201
B700797		4.67		0.46	7.16	19.2	550	1.53	0.44	2.14	1.42	48.1	8.7	15	9.13	14.8
B700798		1.19		2.94	6.87	44.0	450	1.66	0.38	2.09	59.5	43.0	5.1	14	10.85	64.6
B700799		4.06		0.44	7.04	18.1	530	1.85	0.45	2.01	0.59	42.8	7.7	15	11.20	102.0
B700800		0.26	1.465	92.9	4.71	4000	1050	0.99	54.2	1.51	195.0	32.7	59.2	35	9.21	1270
C304251		2.12		0.14	7.09	9.5	2080	1.37	0.16	2.28	0.19	41.6	6.4	11	12.10	7.6
C304252		1.17		0.75	7.20	40.7	200	1.66	0.43	2.08	3.69	47.0	16.3	14	9.03	23.8
C304253		1.64		0.76	6.97	42.0	140	1.53	0.62	2.26	0.59	46.4	14.4	15	8.87	168.0
C304254		5.28		<0.01	0.14	<0.2	30	0.10	0.02	31.9	<0.02	1.06	0.5	2	<0.05	1.6
C304255		6.09		0.54	7.15	16.8	1000	1.56	0.32	3.00	1.65	44.1	6.5	16	11.65	88.9
C304256		5.46		0.34	6.87	13.3	800	1.54	0.37	2.46	0.34	46.3	6.9	15	11.10	45.4
C304257		2.20		0.30	6.90	9.1	950	1.57	0.39	2.33	0.28	48.6	7.5	16	10.60	32.2
C304258		1.90		0.50	7.46	11.5	580	1.56	0.40	2.10	0.25	53.4	5.6	16	15.75	44.5
C304259		1.02		0.73	7.14	24.4	230	1.21	0.79	2.00	0.94	52.8	6.8	13	14.70	23.6
C304260		5.40		0.17	7.09	8.5	1510	1.69	0.34	2.23	0.18	48.3	6.0	16	12.30	15.6
C304261		5.30		0.23	6.75	5.8	1300	1.48	0.39	2.42	0.23	43.5	6.5	18	10.45	16.2
C304262		5.76		0.18	7.17	5.3	1540	1.51	0.34	2.42	0.24	45.0	5.1	16	10.65	14.6
C304263		5.62		0.15	7.28	4.3	1310	1.40	0.42	2.64	0.15	47.1	5.8	15	9.88	9.4
C304264		0.82		0.28	6.44	4.3	790	1.48	0.41	4.41	0.95	45.3	9.7	14	9.87	10.7
C304265		5.98		0.16	7.32	3.1	960	1.66	0.32	2.30	0.39	47.1	5.6	16	8.93	10.0
C304266		2.78		0.16	7.10	4.2	1410	1.63	0.41	2.76	0.23	47.6	5.7	24	10.50	10.7
C304267		1.75		0.13	6.33	3.9	940	1.33	0.35	3.82	0.18	41.3	5.4	16	12.55	16.7
C304268		<0.02		0.13	6.60	4.7	970	1.43	0.38	4.00	0.16	43.3	5.4	14	13.10	17.9
C304269		1.95		0.11	7.33	2.6	1660	1.50	0.25	2.13	0.11	50.2	5.4	15	10.30	15.7

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Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245443

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
C304747		2.55	18.05	0.14	2.0	0.042	3.17	19.7	189.5	0.69	270	4.01	0.67	4.0	4.0	610
C304748		2.41	17.70	0.15	2.0	0.058	3.09	22.2	87.8	0.56	223	3.89	1.45	4.1	3.9	600
C304749		2.72	17.95	0.16	2.1	0.016	3.18	24.5	46.7	0.64	286	7.47	1.94	4.5	4.1	590
C304750		6.09	16.45	0.13	1.1	0.722	2.93	26.7	45.2	0.75	2030	9.24	0.07	6.5	17.7	520
B700797		2.65	18.65	0.15	2.1	0.017	3.12	23.8	45.3	0.62	286	4.94	1.94	4.2	3.8	570
B700798		2.77	20.8	0.16	2.0	0.342	3.36	20.7	131.5	0.58	415	2.76	1.35	4.4	3.9	560
B700799		2.53	19.20	0.15	1.9	0.024	3.13	19.9	299	0.65	271	2.41	1.45	5.0	3.8	600
B700800		11.65	12.00	0.13	0.9	4.36	1.96	16.8	32.5	0.53	1860	17.60	0.15	4.2	14.8	370
C304251		2.82	14.75	0.19	1.1	0.029	2.95	21.0	41.1	0.74	518	0.48	0.71	7.0	3.0	600
C304252		3.86	17.25	0.22	1.8	0.048	3.28	23.5	82.1	0.59	485	2.57	0.99	4.5	4.6	610
C304253		4.40	17.85	0.20	1.9	0.035	2.90	22.0	31.7	0.67	336	4.64	1.62	4.7	4.7	600
C304254		0.13	0.47	0.10	0.1	<0.005	0.04	1.2	1.1	1.21	89	0.09	0.07	0.4	0.7	60
C304255		2.56	18.30	0.22	2.0	0.025	3.02	21.7	77.1	0.66	291	3.26	1.42	5.3	4.5	620
C304256		2.47	18.20	0.20	1.9	0.022	3.20	22.7	72.3	0.69	352	4.62	1.06	4.8	4.1	610
C304257		2.56	17.50	0.18	1.9	0.017	3.10	24.0	60.4	0.71	357	3.31	1.06	4.8	4.2	590
C304258		2.55	18.30	0.22	1.8	0.021	2.87	28.1	279	0.82	532	5.80	0.06	4.6	4.0	620
C304259		3.87	16.40	0.16	1.8	0.047	3.09	28.2	25.1	0.73	672	4.58	0.04	3.2	4.3	600
C304260		2.36	18.95	0.18	1.9	0.018	2.88	23.6	64.3	0.65	377	2.85	1.67	5.5	4.2	620
C304261		2.37	17.25	0.19	1.7	0.012	2.95	21.9	33.6	0.64	478	3.32	1.57	4.9	4.1	600
C304262		2.25	18.05	0.18	1.9	0.013	2.95	22.1	24.0	0.66	498	3.95	1.96	5.5	3.8	620
C304263		2.33	18.60	0.19	2.2	0.008	2.81	23.5	38.4	0.63	291	3.20	1.03	5.0	4.0	640
C304264		2.88	17.40	0.18	1.9	0.006	2.60	22.6	46.0	0.63	422	8.24	1.34	4.2	4.3	600
C304265		2.26	18.65	0.18	2.1	0.007	2.87	23.8	18.5	0.61	236	8.39	2.18	4.5	4.2	630
C304266		2.42	18.50	0.21	2.0	0.006	2.78	23.6	23.5	0.68	306	4.75	1.96	5.0	5.1	650
C304267		2.20	16.95	0.14	1.8	0.011	2.56	19.8	31.4	0.84	380	3.39	1.28	5.9	3.8	590
C304268		2.38	17.50	0.16	1.9	0.006	2.66	21.0	31.1	0.88	410	3.68	1.32	6.1	4.0	610
C304269		2.12	18.45	0.20	2.0	0.010	2.71	24.8	29.9	0.67	323	2.58	1.69	6.3	4.1	630

***** See Appendix Page for comments regarding this certificate *****

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To: **ROCKHAVEN RESOURCES LTD.**
C/O ARCHER, CATHRO AND ASSOCIATES
(1981) LIMITED
1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245443

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
C304747		90.9	117.5	<0.002	2.18	5.33	5.5	1	1.4	335	0.30	0.13	9.52	0.155	1.71	3.6
C304748		85.6	121.5	<0.002	2.18	2.96	5.6	1	1.5	270	0.30	0.13	10.30	0.154	1.53	3.8
C304749		62.9	129.0	0.002	2.35	1.93	5.7	1	1.4	2170	0.31	0.09	10.60	0.167	1.43	3.6
C304750		1795	176.5	0.002	3.50	51.0	9.6	1	6.8	83.0	0.47	0.22	11.15	0.214	2.83	4.5
B700797		44.9	123.5	<0.002	2.39	2.08	5.7	1	1.4	2190	0.32	0.08	10.80	0.159	1.40	3.6
B700798		543	133.5	0.002	2.52	5.40	5.7	1	1.8	1355	0.31	0.06	9.60	0.163	1.65	3.3
B700799		34.0	111.5	<0.002	2.23	31.6	5.7	1	1.4	1215	0.36	0.14	9.52	0.183	1.44	3.3
B700800		9220	115.0	<0.002	>10.0	234	6.8	2	11.4	95.7	0.29	2.30	7.02	0.147	1.95	4.3
C304251		16.2	101.5	0.002	0.47	6.65	9.4	<1	2.1	203	0.61	0.09	12.65	0.238	1.71	3.9
C304252		94.6	161.0	0.003	3.76	5.58	6.1	1	2.6	354	0.34	0.30	10.80	0.160	1.87	4.2
C304253		28.4	143.0	<0.002	4.22	21.6	6.0	1	1.1	309	0.36	0.25	11.15	0.159	1.52	4.2
C304254		0.7	1.1	<0.002	<0.01	0.09	0.2	<1	<0.2	81.0	0.07	<0.05	0.19	<0.005	0.02	0.2
C304255		73.5	113.5	<0.002	2.03	18.75	5.7	<1	1.4	299	0.40	0.16	10.05	0.186	1.44	3.8
C304256		24.1	121.5	0.002	2.09	10.60	5.7	1	1.3	911	0.37	0.13	9.67	0.165	1.78	3.6
C304257		22.6	128.0	0.002	2.08	7.05	5.9	1	1.9	879	0.37	0.17	10.25	0.166	1.69	3.6
C304258		16.5	127.5	0.002	2.00	26.5	6.3	<1	1.3	169.5	0.37	0.21	11.80	0.174	1.81	6.4
C304259		38.0	150.5	0.004	3.45	13.05	5.8	1	2.5	108.5	0.26	0.30	10.85	0.137	2.04	4.7
C304260		16.9	123.5	<0.002	1.66	3.45	6.2	<1	1.6	1440	0.41	0.09	10.65	0.186	1.45	3.7
C304261		20.7	110.0	<0.002	1.64	2.36	5.5	<1	1.6	1160	0.39	0.13	9.65	0.180	1.67	3.3
C304262		21.8	109.0	<0.002	1.58	1.87	5.8	<1	1.1	1890	0.43	0.11	10.55	0.197	1.41	3.8
C304263		14.5	101.0	0.003	1.86	5.50	6.1	<1	1.2	480	0.39	0.20	10.95	0.177	1.27	3.3
C304264		64.6	94.7	0.013	2.56	2.47	5.7	1	1.2	187.0	0.33	0.18	10.05	0.149	1.40	3.3
C304265		19.3	109.0	0.006	1.88	1.25	6.2	1	1.1	1690	0.34	0.14	10.85	0.164	1.21	3.9
C304266		17.7	106.0	0.002	1.66	1.49	6.4	1	1.1	551	0.38	0.13	10.85	0.177	1.24	3.6
C304267		14.3	88.1	<0.002	1.30	2.01	5.5	1	1.7	157.5	0.47	0.10	9.62	0.191	1.16	3.1
C304268		14.7	92.2	0.002	1.37	2.05	5.9	<1	1.9	167.0	0.48	0.07	10.10	0.195	1.27	3.2
C304269		13.3	99.7	<0.002	1.04	1.11	6.3	<1	1.3	187.0	0.47	0.06	11.00	0.206	1.12	3.5

***** See Appendix Page for comments regarding this certificate *****

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1016 - 510 W HASTINGS STREET
VANCOUVER BC V6B 1L8

Finalized Date: 31-DEC-2020
Account: ROCKHA

Project: Klaza

CERTIFICATE OF ANALYSIS WH20245443

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA24
	Analyte	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5	0.005
C304747		50	1.3	9.3	146	53.0	0.039
C304748		47	1.4	9.9	127	52.5	0.025
C304749		47	1.7	11.2	102	52.6	0.015
C304750		64	6.1	12.4	2880	30.2	0.674
B700797		48	1.4	10.7	91	50.5	0.027
B700798		48	1.2	9.9	2600	49.0	0.101
B700799		49	1.5	10.7	65	47.8	0.012
B700800		48	4.9	9.5	>10000	21.8	2.86
C304251		68	1.6	11.1	52	24.9	0.007
C304252		47	1.6	10.0	217	45.8	0.040
C304253		48	1.1	10.5	72	47.9	0.025
C304254		1	<0.1	2.2	3	1.6	<0.005
C304255		51	1.5	10.0	116	47.3	0.018
C304256		50	1.4	9.6	47	48.0	0.015
C304257		50	1.4	10.0	42	48.2	0.010
C304258		52	2.3	10.1	40	46.8	0.011
C304259		51	2.7	9.5	81	44.0	0.018
C304260		51	1.3	11.0	39	49.8	0.011
C304261		50	1.1	9.4	43	43.3	0.008
C304262		51	1.0	10.4	45	49.5	0.008
C304263		52	1.4	10.2	34	50.6	0.007
C304264		51	1.3	10.7	73	46.5	0.006
C304265		51	1.0	10.8	46	51.7	0.005
C304266		54	1.1	11.4	43	51.8	0.006
C304267		51	1.2	10.3	45	45.2	0.009
C304268		52	1.0	11.0	45	46.1	0.007
C304269		53	0.9	11.0	35	50.8	0.005

***** See Appendix Page for comments regarding this certificate *****

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Project: Klaza

Finalized Date: 31-DEC-2020
Account: ROCKHA

CERTIFICATE OF ANALYSIS WH20245443

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-AA24	ME-MS61	ME-OG62	Zn-OG62

APPENDIX V

ROCK SAMPLE DESCRIPTIONS

2020 Rock Samples Klaza Property - NAD 83 - Zone 8

Sample Tag:	K293901			Date Collected:	July 1, 2020
UTM:	Easting:	388617	Northing:	6890066	
Description:	Vuggy, limonite pitted quartz. No suphides within. Sample taken from float				

Sample Tag:	K293902			Date Collected:	July 1, 2020
UTM:	Easting:	388603	Northing:	6890068	
Description:	Pitted quartz with minor pyrite throughout. Radial quartz crystals and caverns within. Sample taken from float. Rep sample kept				

Sample Tag:	K293903			Date Collected:	July 1, 2020
UTM:	Easting:	388865	Northing:	6889685	
Description:	Very vuggy, oxidized quartz. Fist sized chunk from float in a frost boil. Minor pyrite and limonite within.				

Sample Tag:	K293904			Date Collected:	July 1, 2020
UTM:	Easting:	388737	Northing:	6890174	
Description:	Oxidized quartz, very vuggy and pitted with limonite alteration, small flecks of pyrite within				

Sample Tag:	K293905			Date Collected:	June 25, 2020
UTM:	Easting:	386824	Northing:	6888267	
Description:	Massive calcite contaning black pits and weathered surface. Lots in area - Taken from float but source nearby				

Sample Tag:	K293906			Date Collected:	June 26, 2020
UTM:	Easting:	381752	Northing:	6888565	
Description:	Oxidized, solicious quartz breccia with large amounts of limonite pitting within. Sample taken from float				

Sample Tag:	K293907			Date Collected:	July 5, 2020
UTM:	Easting:	375211	Northing:	6891338	
Description:	Extremely oxidized, pitted sugary quartz (possibly quartzite??). Abundant limonite and trace pyrite throughout. Sample from float but lots in a 100x100m area. Rep sample kept				

Sample Tag:	K293908			Date Collected:	July 5, 2020
UTM:	Easting:	375210	Northing:	6891335	
Description:	Similar to K293907. Sample taken from a 50x50x25cm boulder. Rep sample kept				

Sample Tag:	K293909			Date Collected:	July 5, 2020
UTM:	Easting:	375210	Northing:	6891334	
Description:	Oxidized quartz with disseminated pyrite and minor chalcopyrite (brass yellow tarnish) <1mm flecks of magentas and blues and purples (possible bornite?) Quartz is very fined grained with a sugary appearance				

Sample Tag:	K293910			Date Collected:	July 5, 2020
UTM:	Easting:	375211	Northing:	6891322	
Description:	Very oxidized, sugary quartz containing approx. 5% pyrite. Also filled with pits containing limonite. Loads more in the area. Float sample but bedrock likely directly below.				

Sample Tag:	K293911			Date Collected:	July 6, 2020
UTM:	Easting:	388989	Northing:	6887272	
Description:	Rubbly, oxidized breccia?? Containing clasts of grano. No sulphides visible but large pits filled with limonite present throughout. Bedrock likely underneath sample				

Sample Tag:	K293912			Date Collected:	July 7, 2020
UTM:	Easting:	386116	Northing:	6888917	
Description:	Oxidized, pitted quartz breccia? Tons of limonite throughout sample. Minor pyrite within. Sample taken from a small pit dug (composite sample of breccia chunks)				

Sample Tag:	K293913			Date Collected:	July 11, 2020
UTM:	Easting:	392591	Northing:	6882480	
Description:	Solicious unknown rock type. Many pits filled with limonite throughout and cubic pyrite throughout. Sample taken from a old dozer cut. Lots more of the same material around. Rep sample kept				

Sample Tag:	K293914			Date Collected:	July 13, 2020
UTM:	Easting:	391665	Northing:	6888404	
Description:	Solicious quartz with limonite pitting throughout. Cubic pits present - likely from pyrite. Sample taken from a old excavator trench in Dade area.				

Sample Tag:	K293917			Date Collected:	July 13, 2020
UTM:	Easting:	392529	Northing:	6888880	
Description:	Schistose foliation with an onset of gneissic seperation. Area is around 30-50 metres with large quartz veining, boulders and small chips of quartz are scattered in the area. Some quartz are oxidized while other pieces are clear to smokey. Minor sphalerite, pyrite and limonite was spotted within the rock. During trav NE it appears that the same rock type and quartz veining? continues 40-50 metres away before being covered by moss and brush.				

Sample Tag:	K293918			Date Collected:	July 16, 2020

UTM: Easting: 382224 Northing: 6884786
Description: Clear to smokey quartz with subhedral crystals with area of heavy alteration. Tiny quartz veins within an altered porphyritic rhyolite surrounded by limonite staining and is heavy for its size, there are very small black crystals in fractures that are very soft (having trouble ID'ing this mineral)

Sample Tag: K293919 Date Collected: July 17, 2020
UTM: Easting: 381176 Northing: 6885118
Description: Extremely altered grano? with small quartz crystals in vugs. Very heavy rocks for their size. Limonite throughout as well as an unknown black mineral (possible sulphosalt??). Reminds me of scarns?? Float sample. Rep sample kept

---

Sample Tag: K293920 Date Collected: July 18, 2020
UTM: Easting: 381175 Northing: 6885117
Description: Extremely altered grano/quartz?? Rock is very pitted and full of limonite. Very little host rock left. Float sample

---

Sample Tag: K293921 Date Collected: July 17, 2020
UTM: Easting: 381175 Northing: 6885119
Description: Quartz with chunks of extremely altered grano within. Limonite pitting and unknown black sulphide throughout. Very dense for its size. Float sample. Rep sample kept

---

Sample Tag: K293922 Date Collected: July 19, 2020
UTM: Easting: 382843 Northing: 6884692
Description: Pitted, rusty quartz taken from a historic trench. Pits are large and cubic. Limonite present in some of the pits. No sulphides visible. Rep sample kept. Gps location estimated from GPS tracks since original point was lost. Sample is flagged on site and should be easy to find again if necessary

---

Sample Tag: K293923 Date Collected: July 19, 2020
UTM: Easting: 382723 Northing: 6883941
Description: Extremely pitted, rusted out quartz taken from a scree slope. Basic search of area around sample did not reveal any other specimens. No visible sulphides within other than potentially weak scordite staining. Limonite throughout sample. Rep sample kept

---

Sample Tag: K293924 Date Collected: July 19, 2020
UTM: Easting: 382728 Northing: 6884710
Description: Pitted, rusty quartz taken from historic trench. Sample is very dense for its size and may have some small amounts of anglesite present. Weak scordite staining may also be present. Limonite present throughout.

Sample Tag: K293925 Date Collected: July 19, 2020

UTM: Easting: 382755 Northing: 6883632

Description: Quartz mixed with some host rock (unknown type…. Rhyolite?). Sample taken from an old dozer cut. Lots more material in the area. No sulphides within. Pits throughout with about half of them filled with limonite. Rep sample kept

---

Sample Tag: K293926 Date Collected: September 3, 2020

UTM: Easting: 384359 Northing: 6886445

Description: Chip sample along long axis of 225cmx115cm boulder exposed in road cut. Lots of other quartz boulders around, locally derived. Mostly barren crystaline quartz, no sulphides observed, minor limonite staining. Minor pockets or patches of muscovite/sericite. Casts of bleached and altered medium grained granite/granodiorite incorporated on some edges of boulder. Some boulders have minor feldspar on what is presumed to be vein wall.

Sample Tag: K293927 Date Collected: September 3, 2020

UTM: Easting: 384359 Northing: 6886443

Description: Chip sample along short axis of 225cmx115cm boulder exposed in road cut. Lots of other quartz boulders around, locally derived. Mostly barren crystaline quartz, no sulphides observed, minor limonite staining. Minor pockets or patches of muscovite/sericite. Casts of bleached and altered medium grained granite/granodiorite incorporated on some edges of boulder. Some boulders have minor feldspar on what is presumed to be vein wall.

APPENDIX VI

GEOLOGICAL AND GEOTECHNICAL LOGS

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383056	6886064	1180	344.42

ZONE: Rusk

SECTION:

HOLE: KL -20-468

CLAIM: YA78062

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 4.57m, Out

Drilling Dates: Aug 09 - Aug 15, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.8	0.8	CAS
0.8	2.85	2.05	OVB
2.85	11.3	8.45	VOL
11.3	12.45	1.15	VOL
12.45	23.7	11.25	VOL
23.7	27.22	3.52	VOL
27.22	32.8	5.58	VOL
32.8	35.9	3.1	VOL
35.9	41.39	5.49	VOL
41.39	45.87	4.48	VOL
45.87	47.51	1.64	BXA
47.51	49.9	2.39	VOL
49.9	57.52	7.62	VOL
57.52	63.61	6.09	VOL
63.61	65.59	1.98	VOL
65.59	65.94	0.35	FLR

SAMPLES	
Numbers:	W594151 to W594181, W598901 to W599000, W599301 to W599339
Total:	170
Batch:	001, 002, 003, 004, 005
Certificates:	WH20188118, WH20188125, WH20188131, WH20188138, WH20188145

COMMENTS
Handheld GPS accuracy of 1.7m

65.94	66.54	0.6	VOL
66.54	75.19	8.65	VOL
75.19	91.26	16.07	VOL
91.26	91.37	0.11	VEN
91.37	93.68	2.31	VOL
93.68	93.75	0.07	VEN
93.75	96.1	2.35	GRD
96.1	97.88	1.78	GRD
97.88	98.14	0.26	VEN
98.14	99.57	1.43	GRD
99.57	100.85	1.28	GRD
100.85	107.2	6.35	GRD
107.2	108.48	1.28	GRD
108.48	109.18	0.7	GRD
109.18	122.2	13.02	GRD
122.2	131.06	8.86	BXA
131.06	139.98	8.92	GRD
139.98	149.3	9.32	GRD
149.3	162.75	13.45	GRD
162.75	163.35	0.6	GRD
163.35	167.25	3.9	GRD
167.25	168.2	0.95	GRD
168.2	189.5	21.3	GRD
189.5	191.1	1.6	GRD
191.1	191.91	0.81	GRD
191.91	192.56	0.65	GRD
192.56	222	29.44	GRD
222	260.73	38.73	GRD
260.73	260.82	0.09	VEN
260.82	261.04	0.22	GRD
261.04	261.1	0.06	VEN
261.1	264.3	3.2	QFP

264	264.09	0.09	VEN
264.09	269.7	5.61	GRD
269.7	269.88	0.18	VEN
269.88	274.55	4.67	GRD
274.55	274.95	0.4	VEN
274.95	322	47.05	GRD
322	326.7	4.7	GRD
326.7	338.35	11.65	QFP
338.35	344.42	6.07	GRD

Box Log

KL -20-468

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.8	3.95
2	3.95	6.45
3	6.45	8.9
4	8.9	11.3
5	11.3	13.88
6	13.88	16.25
7	16.25	18.38
8	18.38	21.04
9	21.04	22.96
10	22.96	25.8
11	25.8	28.72
12	28.72	31.12
13	31.12	33.99
14	33.99	36.7
15	36.7	40.05
16	40.05	43.15
17	43.15	45.97
18	45.97	48.77
19	48.77	51.68
20	51.68	54.37
21	54.37	57.07
22	57.07	59.83
23	59.83	62.48
24	62.48	65.21
25	65.21	68.03
26	68.03	70.93
27	70.93	73.84
28	73.84	76.6
29	76.6	79.25
30	79.25	82.23
31	82.23	85.34
32	85.34	88.21
33	88.21	91.26
34	91.26	94.05
35	94.05	97.3
36	97.3	100.34
37	100.34	103.09
38	103.09	106.68
39	106.68	109.75
40	109.75	112.69
41	112.69	115.8
42	115.8	119.03
43	119.03	122.07
44	122.07	125.08
45	125.08	127.98
46	127.98	130.73
47	130.73	133.66
48	133.66	136.83
49	136.83	139.98
50	139.98	142.86
51	142.86	145.95
52	145.95	149.19
53	149.19	152.29
54	152.29	155.54
55	155.54	158.77
56	158.77	161.63
57	161.63	164.54
58	164.54	167.64
59	167.64	170.54
60	170.54	173.45
61	173.45	176.4
62	176.4	179.27
63	179.27	181.22
64	181.22	184.2
65	184.2	187.1
66	187.1	190.33
67	190.33	193.36
68	193.36	196.66
69	196.66	199.84
70	199.84	204.03
71	204.03	208.06
72	208.06	212.8
73	212.8	216.94
74	216.94	221.5
75	221.5	225.43
76	225.43	229.33
77	229.33	233.59
78	233.59	237.74
79	237.74	242
80	242	246.14
81	246.14	250.49
82	250.49	254.94
83	254.94	259.08
84	259.08	263.46
85	263.46	267.47
86	267.47	271.71
87	271.71	275.69
88	275.69	280.05
89	280.05	284.34
90	284.34	288.41

Box Number	From (m)	To (m)
91	288.41	292.42
92	292.42	296.71
93	296.71	300.65
94	300.65	304.6
95	304.6	308.65
96	308.65	312.5
97	312.5	316.69
98	316.69	320.74
99	320.74	324.75
100	324.75	328.87
101	328.87	333.16
102	333.16	337.42
103	337.42	341.69
104	341.69	344.42

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-468									
	3.22	9	HTW	VOL	949.9	600.9	2.74	2.7	andesite volcanics
	28.01	11	HTW	VOL	1132	725	2.67	2.8	andesite volcanics
	47.1	18	HTW	BXA	2061	1251	2.98	2.5	strongly silicified host rock, with abundant stringers of py and aspy
	47.32	19	HTW	BXA	2142	1408	2.93	2.9	Siderite-Ankerite-Chalcedony vein, brecciated and rehealed, choliform texture. Py, Aspy, minor Gal and trace Sphal. Majority of swulphides in clasts, minor, mostly Gal in matrix.
	65.56	29.5	HTW	VOL	3273	2163	2.88	3.0	Brecciated vein material and sulphides. Only 25% of sample is well mineralized. Ankerite-Siderite-Rhodochrosite-chalcedony matrix and vein and host rock clasts, disseminated py and aspy throughout. Aspy, Pyrite Sphal, and gal in well mineralized section.
	85.11	22.5	HTW	VOL	2421	1485	2.8	2.6	very fine grained granodiorite
	93.66	6.3	HTW	VOL	737	504	3.04	3.2	crumbled and reannealed vein, quartz-ankerite infill, sukphides mostly sphal, lesser Py and Gal, and minor Aspy.
	126.11	17.5	HTW	BXA	1976	1269	2.93	2.8	about 8cm of vein, 8.5cm altered wall rock.
	145.8	14.4	HTW	GRD	1509.3	940.4	2.72	2.7	altered granodiorite
	147.59	9.6	HTW	GRD	1232.6	821.9	3.34	3.0	7cm of mineralized breccia, ~2.5cm of altered wall rock
	192.23	19.6	HTW	GRD	2333.2	1544.4	3.09	3.0	vein material with ~10% host rock

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
	196.48	13.3	HTW	GRD	1509.4	970	2.95	2.8	fine grained granodiorite
	254.69	12.4	NTW	GRD	883.2	567.2	2.52	2.8	fine-grained granodiorite
	261.78	16.1	NTW	QFP	1016.4	623.8	2.23	2.6	dyke
	333.16	13.7	NTW	QFP	1002.2	635.2	2.59	2.7	QFP dyke
	341.96	11	NTW	GRD	770.6	495.8	2.48	2.8	fine to medium grained granodiorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.80	0.80	CAS	--	casing							
0.80	2.85	2.05	OVB	--	overburden, clasts of f-mxl int. volcanics							
						MD	GY					
2.85	7.28	4.43	VOL	FG	Multiple mm scale calcite-siderite-chl veinlets, often altered to limonite with >1cm weak-moderate carbonate alteration halos, minor bleaching in halos.							
									SID	1I		
									PRO	2I		
7.28	7.43	0.15	VOL	FG	Mod-strong siderite-carbonate alteration. Moderate clay alteration of feldspars. Small veinlet of fe-carb at 60 deg TCA.							
									SID	3I		
									ARG	2I		
7.43	10.38	2.95	VOL	FG	pervasive weak carbonate and chl alteration. Common fractures with fe-carb and cal infill, often altered to limonite. Weak, >1cm, carbonate-sericite alteration halos around fractures. Fracture orientation variable, 80-25 deg TCA.							
									PRO	2I		
									SID	2I		
10.38	10.67	0.29	VOL	FG	mod-strong siderite-carbonate-clay alt, andesite. Feldspars altered to clay. Small 0.5cm veinlet of calcite/ankerite at 35 deg TCA.							
10.67	11.30	0.63	VOL	FG	pervasive weak carbonate alteration, pervasive weak chl alt. minor ~1mm cal/carb veinlets at 50 deg TCA.							
									PRO	1I		
11.30	12.45	1.15	VOL	FG	Pervasively bleached and weakly clay altered and fe-oxide stained fxl volcanic (andesite). Minor vinlets >1cm of siderite at 70 deg TCA. Trace Py. Capped on both sides by strong clay-fe-carbonate alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
12.45	14.30	1.85	VOL	FG	F-mxl grey-green andesite. Pervasive weak carbonate alteration, patchy weak to moderate chlorite alteraton, patchy moderate siderite alteration. Linonite common on oxidized fracture surfaces. Minor unoxidized fractures with cal-chl-py. Trace hemitite alteration of mafics in fracture halos. Trace disseminated pyrite.							
									CHL	2I		
									CLY	2I		
14.30	14.80	0.50	VOL	FG	f-mxl med grey green andesite. Strong fe-carb/clay alteration.							
									CHL	2I		
									CLY	2I		
14.80	16.55	1.75	VOL	FG	med grained andesite, verging on diorite, moderately magnetic. Weak chl alteration. Trace carbonate alteration. Minor fractures with siderite/linonite infill.							
									CHL	2I		
									CLY	2I		
16.55	23.70	7.15	VOL	FG	f-mxl andesite. Weakly magnetic. Patchy carbonate alteration and trace to minor bleaching around fractures. Pervasive weak chl alteration. Trace py dissemineated throughout and in fractures. 0.5cm grey qtz, fe-carb, cal with trace py veinlet at 10 deg TCA at 22.60m.							
									CLY	2I		
									CHL	2I	Py	0.1
23.70	25.05	1.35	VOL	FG	f-mxl andesite, mod siderite alt, mod chl alt. reacts strongly with acid.							
25.05	25.58	0.53	VOL	FG	Rubble zone, calcite and fe-carbonate on fracture surfaces.							
								RB				
25.58	26.80	1.22	VOL	FG	m-fxl andesite							
26.80	27.30	0.50	VOL	FG	Rubble zone, hematite and chlorite on fracture surfaces							
						DK	BR	RB	CHL	3I	Go	1
27.10	27.22	0.12	VOL	FG	small FBX interval, 10% GOU, reacts strongly with acid.							
						MD	BF	BX				
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
27.22	28.96	1.74	VOL	FG	Andesite, fine grained. Weakly reactive, pervasive weak chlorite alteration.							
								FR	CLY	1I	Py	1
									CHL	1I		
28.96	29.45	0.49	VOL	FG	Andesite, weak chlorite and clay alteration. Fractures with calcite, siderite, and limonite infill on fracture surfaces. Trace disseminated Py.							
									CHL	1I		
									CLY	1I		
29.45	29.69	0.24	FLR	FG	Andesite, small fractured/ faulted interval, clay altered, reactive.							
									CHL	1I	Py	1
									CLY	1I		
29.69	32.80	3.11	VOL	FG	FG int volcanics (andesite). Common fractures infilled with calcite, siderite, and limonite. Fractures generally 60 and 65 degrees TCA.							
									CHL	1I		
									CLY	1I		
32.80	34.34	1.54	VOL	FG	broken altered andesite, limonite on fracture surfaces, calcite infill in broken fractures							
								CR	CLY	2I		
									SID	1I		
									CHL	2I		
34.34	35.90	1.56	FLR	FG	fine grained intermediate volcanics (andesite), pervasive moderate siderite alteration. Heavily fractured. 1cm calcite vein at 35.40m in							
35.90	41.39	5.49	VOL	FG	FG intermediate volcanics. Weak chlorite and carbonate alteration, especially prevalent around small carbonate veinlets. Veinlets have weak alteration halo, weak sericite, weak siderite, or weak calcite alteration >1cm from vein. Often siderite on fracture surfaces. Occasional hematite alteration rimming some mafic grains.							
41.39	42.00	0.61	VOL	FG	Pervasive moderate to strong siderite alteration. Weakly reactive to acid. Abundant small feldspar phenocrysts altered to clay. Small veinlets of carbonate generally cutting at 60-70 deg TCA.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.00	43.80	1.80	VOL	FG	Mottled beige and grey fine grained. Patchy moderate siderite alteration. Weakly reactive. Disseminated Py. Minor ankerite-chalcedony-calcite veins ranging between 4-20mm containing minor blebby Py throughout vein material.							
43.80	45.24	1.44	VOL	FG	Silica alteration, bleached, mottled with oxidation staining.							
45.24	45.87	0.63	VOL	FG	strongly fe-carbonate altered intermediate volcanics? With 7cm quartz-ankerite-siderite vein with 5% Aspy, 3% Sphal and 1% Py at 45.65-45.72m. Unable to get orientation.							
45.87	47.51	1.64	BXA	--	Resilicified vein zone. Brecca contains mainly vein material, which is occasional mineralized, in largely unmineralized quartz-siderite-ankerite matrix. Matrix contains minor disseminated sulphides. Over length of interval, ~3% Aspy, 1% Gal, 1% Sph. Vuggy in places containing crystaline Ankerite/Siderite +/- druzy quartz. Vein orientation appears to be 40-45 deg TCA.							
47.51	49.90	2.39	VOL	FG	FG int volcanics, with patchy mod-strong siderite alt, vein halo carbonate alteration, and patchy moderate hem alt. Minor qtz-carb veinlets. 1cm veinlet at 48.38 with trace Py+/-Aspy, moderate carbonate alteration vein halo.							
49.90	57.52	7.62	VOL	FG	FG int volcanics. Pervasive weak propylitic alteration, pervasive weak carbonate alteration. Minor >2mm qtz-carb veinlets at 50 deg TCA with 5cm weak bleaching and moderate carbonate alteration halo. Carbonate and clay minerals on fracture surfaces. Trace disseminated Py.							
57.52	58.28	0.76	VOL	FG	moderate to strongly clay and carbonate altered interval							
						LT	GY	RB	CLY	3I		
						LT	GN		ARG	2I		
58.28	58.47	0.19	VOL	FG	moderate to strongly clay and carbonate altered interval							
						LT	GN	PH	CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MA	ARG	3I		
58.47	58.63	0.16	VOL	FG	moderate to strongly clay and carbonate alteration							
						LT	GY	MA	CLY	3I		
									ARG	3I		
58.63	58.85	0.22	VOL	FG	moderate to strongly clay and carbonate altered interval							
						MD	GY	MA	CLY	3I		
						LT	GN	PH	CHL	2I		
58.85	63.61	4.76	VOL	FG	FG int volcanics. Pervasive weak to moderate chlorite alteration. Common thin fractures/veinlets with calcite-chlorite infill and weak carbonate fracture halo, some epidote alteration in fracture halo (ex. At 60.02m).							
63.61	64.14	0.53	VOL	FG	localized strong clay/argillic alteration, moderately reactive, trace disseminated Py. Veinlets of carbonate-ankerite-pyrite at 50 TCA.							
						LT	GY	CR	ARG	3I	Py	1
						LT	OR		CLY	3I	As	1
						LT	GN		LIM	2I		
64.52	65.40	0.88	VOL	FG	Interval of moderate to strongly clay/argillite altered, mod reactive, rubbly. Trace disseminated py and aspy. Minor gal, shal, aspy, and py in and around small >1cm veinlets.							
						LT	GY	RB	CLY	3I	Py	0.1
									ARG	2I	As	0.5
											Gn	0.5
											Sp	0.5
65.40	65.59	0.19	FLT	FG	19cm of fault brecca>gouge, clasts of altered volcanics, trace disseminated py in gouge. Clasts appear to be unmineralized.							
						LT	GY	RB	CLY	4I	Py	0.5
								SH				
65.59	65.74	0.15	BXA	MG	Mineralized brecca/mineralized fault material. Clasts are mix of vein material and clay/silica altered int volcanics. Some clasts are weakly mineralized.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
65.74	65.84	0.10	MX	MG	Main mineralization is hosted between 65.74-65.84cm. This section contians 12% Aspy, 7% Py, 4% Sphal, 2% Gal. Sphal is honey to rust brown. Matrix of brecca through here is more chalcedonic, minor rhodenite and carbonates							
						MD	GY				As	12
											Py	7
											Sp	4
											Gn	2
65.84	65.94	0.10	BXA	MG	Mineralized brecca/mineralized fault material. Clasts are mix of vein material and clay/silica altered int volcanics. Some clasts are weakly mineralized.							
65.94	66.54	0.60	VOL	FG	Interval of dominantly altered fg int volcanics. Strong clay-carbonte alteration throughout most of interval. Minor quartz-carbonate stringers, unmineralized. Carbonate-clay infill in fractures.							
66.54	67.06	0.52	VOL	FG	relatively unaltered fg int volcanics (andesite). Minor qtz-carb-chlorite-py veinlets with weak clay-chlorite-carbonate alteration halos. Trace disseminated Py around veinlets.							
67.06	67.51	0.45	VOL	FG	rubbly section. Some slickenlines on fracture surfaces. Carbonate-chlorite infill in fractures.							
						MD	GY					
						DK	GN	CR	CHL	2I		
67.51	67.60	0.09	VOL	FG	moderatly altered, small qtz carb veinlet cutting through at 7o TCA. Chl-carb alteration halo.							
						MD	GN	ZO	PRO	2I	Py	0.5
						MD	GY		CHL	1I		
67.60	68.20	0.60	VOL	--	-							
68.20	69.62	1.42	VOL	FG	rubbly section, fractures with chl-cal-hem infill, minor chl alteration							
						MD	GY		CHL	2I		
						DK	GN	CR	PRO	2I		
69.62	71.21	1.59	VOL	--	-							
71.21	71.44	0.23	VOL	FG	veinlets 65 deg TCA with qtz-cal-chl-py infill. Alteration halo of weak to mod clay alteration with chlorite overprinting.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		CHL	2I		
						MD	GN		CLY	2I	Py	1
71.44	71.98	0.54	VOL	--	-							
71.98	72.13	0.15	VOL	FG	Qtz-ank-cal-chl-py veinlet at 40 deg TCA truncated by fractures on either side at 65 deg TCA. Weak clay-chl alteration halo.							
						MD	GN		CHL	2I	Py	0.5
						MD	GY		CLY	2I		
72.13	75.19	3.06	VOL	FG	-							
75.19	81.99	6.80	GRD	MG	Fine grained granodiorite, quartz poor, but present (4% qtz). Strongly magnetic (0.5-1% Magnetite). Pervasive weak to modrate propylitic alteration.							
81.99	82.32	0.33	GRD	MG	Moderately clay altered alteration halo around small 3cm section of gouge and minor breccation with ankerite matrix. Magnetivity decreases as alteration increases. Minor helitite staining/alteration on fracture surfaces. Minor slickensides showing on calicte infill of fracture surfaces in sheared rock.							
						MD	GY	SN	CLY	3I		
						LT	GN		HEM	1I		
82.32	83.05	0.73	GRD	MG	interval moderatly fractured. Fracture surfaces have epidote, chlorite, calcite. Slickensides on some fracture surfaces, 30 deg TCA. Pervasive moderate chlorite alteration. Weak clay alteration.							
								CR	CHL	3I		
88.76	88.86	0.10	GRD	MG	qtz-cal-chl-hem veinlet cutting through granodiorite. Chlorite-epidote alteration halo. 75 deg TCA.							
									HEM	1I		
									CHL	3I		
89.84	90.77	0.93	GRD	MG	alteration section around carbonate-qtz-py veinlets. Weak clay alteration, weak epidote, moderate chl.							
						MD	GN		CLY	1I	Py	0.5
						LT	BL		CHL	3I		
						LT	GY		PRO	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
90.77	91.26	0.49	GRD	MG	alteration section around carbonate-qtz-py veinlets. Pervasice moderate carbonate alteration. Pervasive weak clay alteration, weak epidote, moderate chl.							
						MD	GN		CHL	3I	Py	0.5
						MD	GY		CLY	1I		
						LT	BL		PRO	2I		
91.26	91.37	0.11	VEN	--	11cm vein. Banded altered host rock and ankerite with minor Py and Aspy.							
91.37	91.65	0.28	GRD	MG	gougy and clay altered, some vein fragments, Sphal, gal, aspy and py present in fragments. Matrix carbonates and chalcedonic quartz							
						MD	GN	BN	CLY	3I	As	2
						MD	GY		CHL	2I	Sp	2
									SID	1I	Gn	0.5
									HEM	1I		
91.65	92.14	0.49	GRD	MG	Broken rubble zone. Carbonate, chlorite, siderite trace hematite on fracture surfaces.							
									CHL	2I		
									CLY	2I		
									HEM	1I		
93.09	93.67	0.58	GRD	MG	Broken rubble zone. Carbonate, chlorite on fracture surfaces.							
									CHL	2I		
93.68	93.75	0.07	VEN	--	7cm vein. Banded altered host rock and ankerite-chalcedonic quartz with Sphal, gal, Py and Aspy.							
93.75	94.05	0.30	GRD	FG	Stockworked chaledonic veins with minor sulphides, py and aspy. Bleached and clay altered, resilicified form veinlets.							
						LT	GY		CLY	3I	As	1
						LT	GN		SIL	3I	Py	1
94.05	96.10	2.05	GRD	FG	Moderate to strongly leached and clay altered fine grained granodiorite.							
96.10	96.57	0.47	GRD	FG	strongly faulted, very low competency, strongly clay altered, moderate chlorite alt.							
96.57	97.74	1.17	GRD	FG	fractured and faulted, moderate clay altereation, carbonate and chlorite on fracture surfaces. Trace hematite on fracture susrfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
97.74	97.88	0.14	GRD	FG	fault brecca / gouge material, disseminated py.							
											Py	0.5
97.88	98.14	0.26	VEN	--	Zone of brecciated and fractured strongly clay and carbonate altered granodiorite and ankerite-chalcedony veins with trace Py. Veins generally 80 deg TCA.							
98.14	98.45	0.31	GRD	FG	strongly clay altered fine grained granodiorite. Common carbonate veinlets with trace py.							
98.45	98.92	0.47	GRD	FG	strongly altered and faulted, fractured and gougy.							
98.92	99.57	0.65	GRD	FG	strongly clay altered fine grained granodiorite. Common carbonate veinlets with trace py.							
99.57	100.85	1.28	GRD	FG	weak propylitic alteration. Common calcite-chlorite stringers							
100.85	102.00	1.15	GRD	FG	strongly clay altered fg granodiorite, fractured and faulted, gougy at 101.50m, trace disseminated py, locally chlorite altered.							
						LT	GY	SH	CLY	5I	Py	0.5
						LT	GN		CHL	3I		
102.00	103.30	1.30	GRD	FG	Fractured granodiorite, weak to mod clay alteration. Calcite and epidote infill in fractures. Trace hematite in fractures. Patchy minor epidote alteration.							
103.30	103.65	0.35	GRD	FG	fractured granodiorite becomes gougy.							
103.65	104.00	0.35	GRD	FG	fractured granodiorite							
104.00	104.60	0.60	GRD	FG	very fractured, rubbly, ~10% gouge							
104.60	106.00	1.40	GRD	FG	fractured, crumbly, rubbly							
106.00	106.17	0.17	FLT	VF	fault gouge, clasts up to 5mm, 90~ gouge.							
106.17	107.20	1.03	GRD	FG	fractured rubble zone, calcite and chlorite on fracture surfaces.							
107.20	108.48	1.28	GRD	FG	moderately fractured, calcite infill in fractures. Pervasive weak to moderate chlorite alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
108.48	109.18	0.70	GRD	FG	Fractured and crackled fine grained granodiorite, calcite infill inbetween brecciated clasts.							
109.18	109.73	0.55	VOL	MG	very fine grained granodiorite or coarse grained andesite. Pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos.							
								MA				
109.73	110.05	0.32	GRD	FG	Fine grained granodiorite. Pervasive propylitic alteration. Patchy weak clay alteration around minor faulty fractures. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos.							
110.05	110.20	0.15	GRD	FG	small vein cutting 70 deg TCA. Weak clay alteration halo. Vein contains Calcite-Ankerite-Sphalerite-Py-Gal.							
											Sp	3
											Py	2
											Gn	0.5
110.20	111.86	1.66	GRD	FG	Moderately fractured fine grained granodiorite with pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos. Strongly magnetic							
											Mg	3
111.86	112.00	0.14	GRD	FG	small fracture/veinlet at 80 deg TCA with hem-cal-chl-py infill.							
											Py	1
112.00	118.75	6.75	GRD	FG	Moderately fractured fine grained granodiorite with pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos. Minor patchy epidote alteration around some fractures, minor Py on some fracture surfaces. Strongly Magnetic.							
											Py	0.5
											Ep	0.5
											Mg	1
											Ca	2
118.75	122.20	3.45	GRD	FG	same as above but with weak to moderate silica alteration							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									SIL	2I	Mg	0.5
122.20	122.21	0.01	VEN	--	altered granodiorite with two small mineralized veins (4cm vein @ 122.35-122.39, >1cm vein @ 122.60-122.61m). Veins dominantly sulphides (Sphal-Py-Gal) with minor ankerite-quartz. Py disseminated / localized to fracture halos in altered rocks around veins.							
122.21	122.85	0.64	VEN	--	altered granodiorite with two small mineralized veins (4cm vein @ 122.35-122.39, >1cm vein @ 122.60-122.61m). Veins dominantly sulphides (Sphal-Py-Gal) with minor ankerite-quartz. Py disseminated / localized to fracture halos in altered rocks around veins.							
											Sp	2
											Py	3
											Gn	0.5
122.85	125.75	2.90	FLR	--	Brecciated but rehealed with silica flooding with moderate clay-sericite altertation. Minor carbonate-clay-shlorite filled fractures. Some disseminated Py and Sphal in these areas.							
											Gn	0.5
											Py	0.5
											Sp	0.5
125.75	126.10	0.35	FLR	--	fractured, but rehealed clay-sericite-silica-chlorite altered granodiorite proximal to veining. Py-aspy-gal disseminated but localized around fractures							
											Gn	0.5
											Py	1
											As	0.5
126.10	126.17	0.07	VEN	--	Strongly resilicified brecciated interval of carbonate-rhodochrosite vein and altered host rock clasts, with minor sulphides. Matrix is grey chalcedonic quartz. Sulphides Py-sphal-gal							
									SIL	4I	Py	7
											Sp	1
											Gn	1
126.17	126.53	0.36	FLR	--	Clay-sericite-silica-chlorite altered around vein. Minor py-gal in fractures and disseminated in fracture halos							
											Py	1
											Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
126.53	131.06	4.53	FLR	--	silica altered, broken rock, carbonate on fracture surfaces, pervasive weak chlorite alteration.							
131.06	131.20	0.14	GRD	FG	same as general lith							
131.20	131.55	0.35	GRD	FG	strained granodiorite, moderately clay altered, carbonate infill in common fractures. Rubbly.							
									CLY	2I		
131.55	139.20	7.65	GRD	FG	same as general lith							
139.20	139.60	0.40	GRD	FG	small brecciated vein interval, healed with carboante-quartz, banded py in alteration halo around vein/brecca. Trace sphal.. Weak alteration halo.							
											Py	2
											Py	2
											Sp	1
139.60	139.98	0.38	GRD	FG	same as general lith							
139.98	140.62	0.64	FLT	--	strained/faulted interval, crumbly, rubbly, clay-chlorite alterred. Carbonate on fracture surfaces.							
						LT	GY	RB				
						LT	GN					
140.62	141.00	0.38	MX	--	package of alteration around small 2cm poorly mineralized vein at 140.72m. Minor spahl-py-gal. trace fuchsite in altered halo.							
											Sp	0.5
											Py	0.5
											Gn	0.5
141.00	141.15	0.15	GRD	--	chl altered fg GRD							
141.15	141.18	0.03	VEN	--	small well mineralized veinlet Spah-py-gal. fractured and rehealed with carboante . Weak alteration halo.							
											Sp	30
											Py	20
											Gn	10
141.18	143.40	2.22	GRD	--	fractured mod alt grd, alteration stronger around minor poorly mineralized carbonate veinlets. Weakly strained and clay altered in areas.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.5
											Sp	0.5
											Py	0.5
143.40	145.30	1.90	GRD	--	fine grained grd , weak pervasive clay alt, chl alt. minor carboante filled fractures. Trace epidote alteration around some fractures.							
145.30	147.49	2.19	FLT	--	altered, faulted and sheared interval. 10-15cm gougy sections at 146.2, 146.7, 147.35m. Other rock in interval broken, bu tnot rubbly							
147.49	147.75	0.26	MX	--	brecciated carbonate-quartz-sulphide vein. Crumbled sulphides/ vein material/ carbonate in matrix, rehealed with silica. Moderate to strong sericite alteration halo.							
											Gn	2
											Py	10
											Sp	3
147.75	149.30	1.55	GRD	--	altered vein halo, moderate to intense sericite alteration weak clay alteration. Small brecciated rehealed 4cm carbonate veinlet at 148.35, minor Py.							
											Py	0.5
149.30	162.75	13.45	GRD	FG	same as general lith							
162.75	163.16	0.41	GRD	FG	clay sericite altered package around small vein							
163.16	163.20	0.04	VEN	--	Czrbonzte-qtz-Py-gal-sph veinlet sulphides blebby thoughout vein but voncentrated on edges, carbonate in middle.							
											Sp	10
											Py	20
											Gn	20
163.20	163.35	0.15	GRD	FG	altered package around vein							
163.35	167.25	3.90	GRD	FG	same as general lith							
167.25	167.82	0.57	GRD	FG	Altered, light green grey, fine grained granodiorite. Moderate to strong pervasive light green clay alteration (smectite? Sericite? Clay/chlorite?). Minor pyrite occuring in bands and disseminated.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
167.82	167.95	0.13	VEN	--	Fractured ankerite-quartz-calcite, rehealed with chalcedony matrix, minor sulphides. Two sets of fractures at 80 and 65 deg TCA.							
167.95	168.20	0.25	GRD	FG	Altered, light green grey, fine grained granodiorite. Moderate to strong pervasive light green clay alteration (smectite? Sericite? Clay/chlorite?). Minor pyrite occuring in bands in altered rock around vein.							
168.20	171.00	2.80	GRD	FG	Fine grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos.							
171.00	173.78	2.78	GRD	FG	Fractured zones with calcite-chlorite-hematite slickensides.							
											He	0.1
173.78	178.00	4.22	GRD	FG	Fine grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite alteration halos.							
178.00	179.27	1.27	GRD	MG	medium grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos. Some fractured zones with calcite-chlorite-hematite slickensides.							
179.27	181.00	1.73	GRD	MG	Some fractured zones with calcite-chlorite-hematite slickensides.							
181.00	184.78	3.78	GRD	MG	medium grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos.							
184.78	185.48	0.70	GRD	FG	weak to moderately altered fine grained granodiorite. Moderate clay/sericite alteration and weak chlorite alteration shoulders a 1.5cm ankerite-quartz vein. No sulphides observed.							
185.48	189.50	4.02	GRD	FG	Pervasve weak chlorite alteration. Common fractures > veinlets but now with epidote halo and fracture/veinlet infill							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
189.50	190.30	0.80	GRD	FG	Altered package surrounding sheared carbonate-chlorite vein. Altered rocks contain ~.5cm bands with up to 30% disseminated Py. Clay altered, light greenish grey (smectite,sericite?) tace flecks of fuchsite. Minor carbonate veinlets >5mm.							
											Py	2
190.30	190.43	0.13	FLR	MG	Sheared vein material and carbonate-chlorite vein. Trace py in sheared rock and in vein material. Stongly sericite/clay altered.							
											Py	0.1
190.43	191.10	0.67	GRD	FG	Altered package surrounding sheared carbonate-chlorite vein. Clay altered, light greenish grey (smectite,sericite?) tace flecks of fuchsite. Minor carbonate veinlets >5mm.							
191.10	191.91	0.81	GRD	FG	relatively unaltered granodiorite, two small veinlets of medium grained granodiorite at 191.55m and 191.70m							
191.91	192.18	0.27	GRD	FG	clay and chlorite altered, disseminated py. Alteration increasing towards vein							
192.18	192.23	0.05	FLT	--	small gouge > fractured clay-calcite-chlorite-sulphides on edge of vein. Minor disseminated Py in gouge.							
									SER	2I		
									CHL	2I		
									CLY	3I	Py	1
192.23	192.47	0.24	VEN	--	Ankerite-rhodochrosite-greyquartz-siderite vein with 7% Aspy, 4% Py, 2% Sphal, 1% Gal. Clasts of silicified, clay altered GRD.							
											Py	4
											Sp	2
											Gn	1
											As	7
192.47	192.56	0.09	GRD	FG	clay and chlorite altered, minor disseminated aspy and py, trace fuchsite. Alteration stongest proximal to vein							
											As	2
											Py	1
192.56	193.54	0.98	GRD	FG	weak proylitic alt, weak epidote fracture halo							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
193.54	193.64	0.10	GRD	FG	Altered halo around 1cm Rhodochrosite-quartz-sericite vein							
193.64	194.50	0.86	GRD	FG	weak propylitic alteration							
194.50	196.90	2.40	GRD	FG	banded disseminated Py-Aspy vein/fracture halo, weak to moderate chl/ser/clay alteration halos around >1cm veinlets. Trace fuchsite.							
											As	1
											Py	2
196.90	200.40	3.50	GRD	FG	weak propylitic alteration							
200.40	200.83	0.43	GRD	FG	sericite-smectite-clay altered							
									CLY	3I		
									SER	2I		
200.83	200.97	0.14	VEN	--	quartz-ankerite Sphal-Gal-Aspy-Py vein. 10% sulphides							
											Sp	5
											Gn	3
											As	2
											Py	1
200.97	203.74	2.77	GRD	FG	weak clay chlorite alteration between veins, trace py							
									CLY	2I	Py	0.5
									SER	1I		
									CHL	2I		
203.74	203.79	0.05	VEN	--	ankerite-qtz-ser/smectite vein, minor Sphal-gal-Py							
											Sp	3
											Gn	1
											Py	1
203.79	208.50	4.71	GRD	FG	unmineralized altered and unaltered GRD, some veinlets with alteration halos, but nothing of note							
208.50	209.13	0.63	VEN	--	veinlet swarm, small but moderately well mineralized veinlets of qtz-ankerite-Py							
											Py	4
209.13	212.10	2.97	GRD	FG	generally unaltered GRD, minor qtz-carbonate-py veinlets with altered vein halo							
											Py	1
212.10	212.16	0.06	FLR	--	small sheared / gougy interval, minor Gal-Py							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.5
											Gn	1
212.16	216.64	4.48	GRD	FG	generally altered, minor hematite alteration, sericite-clay alteration arounf veinlets.							
											He	1
216.64	216.94	0.30	VEN	--	two proximal, ~7cm, moderately well mineralized qtz-ankerite-Py-sphal-gal veinlets							
											Py	3
											Sp	2
											Gn	2
216.94	222.00	5.06	GRD	FG	GRD with few small veinlets (218.74, 219.18, 219.83) with gal, sphal, py. Moderate clay-chl-carb alteration halos around veinlets.							
											Gn	0.5
											Sp	0.5
											Py	0.5
222.00	224.85	2.85	GRD	MG	weakly propylitic altered GRD. Minor fractures with >2cm epidote alteration halos, lesser veins with chlorite-calcite							
224.85	225.55	0.70	GRD	MG	fractured, hematite alteration on slicken lines							
											He	0.5
225.55	228.80	3.25	GRD	MG	relatively unaltered, minor epidote alteration around some fractures, minor carbonate veinlets, pervasive weak propylitic alteration							
228.80	228.90	0.10	FLR	--	sheared rubble zone, carbonate in some fractures							
228.90	260.55	31.65	GRD	MG	weakly propylitically altered, pervasive chlorite alteration, carbonate and epidote alteration localized to fracture halos. Slightly coarser than granodiorite above, but still on the fine side of medium grained.							
260.55	260.73	0.18	GRD	FG	finer grained, but otherwise same as above, disseminated py							
											Py	3
260.73	260.82	0.09	VEN	--	about 50% Py, 10% Aspy, 10% Sphal, 7% Gal, and 7% medium green grey, kind of an olive green, clay mineral, smectite? Sericite? No strong bleaching halo. No carbonates or Quartz.							
											Py	50

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											As	10
											Sp	20
											Gn	7
											Se	7
260.82	261.04	0.22	GRD	VF	weak to moderately altered, finer grained host rock, still vfg granodiorite in here							
											Un	2
											Py	2
261.04	261.10	0.06	VEN	--	Small vein between granodiorite and felsic dyke							
											As	10
											Sp	15
											Gn	15
											Py	30
261.10	264.30	3.20	QFP	VF	light grey-green-buff, vessicular quartz feldspar porphyritic dyke. Vessicles rimmed with mineral altered to clay, remainder filled with quartz or light green clay mineral. Feldspars altered to clays +/- light green clay mineral, Smectite? Sericite? Disseminated Py thoughout.							
											Py	0.5
264.00	264.09	0.09	VEN	--	same as general lith							
264.09	265.70	1.61	GRD	MG	mostly competent rock							
265.70	268.00	2.30	FLR	MG	fractured by low angle fracutes, calcite infill, some gougy/rubbly sections between 266 and 266.60m							
268.00	269.70	1.70	GRD	MG	generally competent, some low angle fractures w carbonate infill. Last 40 cm moderate/weak bleaching from vein below.							
269.70	269.88	0.18	VEN	--	same as general lith							
269.88	270.20	0.32	GRD	MG	alteration halo around vein chlorite clay alteration							
270.20	272.78	2.58	GRD	MG	unaltered grd							
272.78	273.22	0.44	GRD	MG	alteration around small qtz-carb py veinlet							
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
273.22	274.55	1.33	GRD	MG	same as above							
											Py	1
274.55	274.95	0.40	VEN	--	same as general							
											Py	3
											Gn	1
274.95	282.46	7.51	GRD	MG	grd, minor veinlets with trace sulphides							
282.46	282.56	0.10	VEN	--	see general lith for sescription							
											Py	3
											Un	1
282.56	294.60	12.04	GRD	MG	grd, weak clay alt of feldspars.							
294.60	295.40	0.80	FLR	--	fractured, crumbly interval, slickensides on low angle surface (15 deg TCA). Carb, hem,py on slickenside.							
295.40	299.65	4.25	GRD	MG	grd, weak clay alt of feldspars. Minor fractures with carbonate-chlorite infill							
299.65	300.50	0.85	GRD	MG	fractured interval, with small 5cm sheared interval at 299.65. small 2cm qtz-pyrite veinlet at 300.10 at 30 deg TCA. Broken down ton 300.5m, calcite chlorite infill							
											Py	1
300.50	305.07	4.57	GRD	MG	weak clay alt of feldspars, minor fractures with calcite-chlorite infill							
305.07	308.00	2.93	GRD	MG	three small >1cm veinlets of qtz-carb-py with moderate ~7cm moderately bleached vein halos at 306m, 306.8m, 307.9m. Orientations are variable, range between 25 deg tca to 70 deg tca.							
308.00	314.20	6.20	GRD	MG	grd, pervasive weak chl alt, weak clay alt							
314.20	314.60	0.40	FLR	--	very minor fracture fault, brecciated/crumbled calcite, hematite stained, small clasts of host rock. Weak epidote-clay-chlorite alterationhalo. Trace py.							
											He	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.5
314.60	322.00	7.40	GRD	MG	minor cm scale alteration halos around fractures. Fracture orientations all over the place. Small rubbly section at 318m. Trace pyrite on fracture surfaces. Minor epidote alteration around fractures. Some fractures filled with calcite-chlorite.							
											Py	0.1
322.00	323.60	1.60	GRD	MG	weakly clay altered, focused around fractures, minor dissemated py, and py hosted in minor quartz veinlets. Patchy epidote alteration, also focused around fractures or veinlets.							
									CHL	2I	Py	2
									CLY	2I		
323.60	324.45	0.85	GRD	MG	Strongly altered grd veinhalo around vein. Pervasive clay-chlorite-sericite alteration. Py hosted in fractures and disseminated in rock.							
											Py	1
											Py	1
324.45	324.95	0.50	VEN	--	crackled and rehealed quartz-carboante vein, areas of brecciated carbonate in chlorite matrix. Chaotically distributed pyrite-sphalerite in sheared/brecciated sections. Pyrite commonly disseminated thoughout altered host rock clasts and fragments in brecca/between breccia veinlets							
						LT	GY		CLY	2I	Py	4
									CHL	2I	Sp	2
									SER	2I		
									SIL	2I		
324.95	326.70	1.75	GRD	MG	trace fuchsite alteration in some small clasts/grains. Patchy silica alteration, pervasive clay and weak clhlorite alteration. Rock is crackled, especially visible in areas where silica alteration has permiated the rock. Small chlorite alteration halos around fractures in these areas. Small carboante-quartz veinlets with minor py-sphal. Trace gal in veinlets.							
									CHL	2I	Sp	1
									SER	2I	Gn	1
									SIL	2I	Py	1
									CLY	3I	Py	1
326.70	328.75	2.05	QFP	MG	porphyritic, disseminated py and sphal(?), felds weak clay alteration							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	2
											Sp	1
328.75	329.41	0.66	QFP	FG	same as above but finer grained and lesser alteration							
											Py	2
											Sp	2
329.41	330.73	1.32	QFP	MG	porphyritic, disseminated py and sphal(?), felds weak clay alteration, minor mineralized veinlets with py and sphal							
								PO			Py	2
											Sp	1
330.73	331.87	1.14	QFP	FG	same as above but finer grained and lesser alteration. Small brecciated interval at 331.55 with black (sulphide rich?) gouge matrix. Minor veinlets with py/sphal, lesser disseminated sphal(?). Gradational contacts above and below							
											Sp	0.5
											Py	1
331.87	335.30	3.43	QFP	MG	porphyritic, disseminated py and sphal?, felds weak clay alteration, minor mineralized veinlets with py and sphal?							
								PO			Py	1
											Sp	0.5
335.30	335.60	0.30	QFP	FG	fine gained, somewhat sheared, trace to minor disseminated py.							
											Py	1
335.60	338.35	2.75	QFP	MG	porphyritic, disseminated py, felds weak clay alteration, minor mineralized veinlets with py and sphal?							
						LT	GY	PO			Py	1
338.35	338.38	0.03	VEN	--	3cm , smectite-py-spah veinlet							
											Py	35
											Sp	20
338.38	338.40	0.02	FLR	--	2cm fault/gougy section							
338.40	338.56	0.16	GRD	FG	moderately clay altered GRD.							
338.56	340.72	2.16	GRD	FG	unaltered fg GRD. Minor 1-3cm veinlets of Py-sphal, moderate alteation halos.							
											Py	1
											Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
340.72	344.42	3.70	GRD	FG	unaltered grd, minor epidote alteration frfacture halos							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.80	0.80	CAS	---	--	casing
0.80	2.85	2.05	OVB	OVB	--	overburden, clasts of f-mxl int. volcanics
2.85	7.28	4.43	VOL	VOL	FG	Multiple mm scale calcite-siderite-chl veinlets, often altered to limonite with >1cm weak-moderate carbonate alteration halos, minor bleaching in halos.
7.28	7.43	0.15	VOL	VOL	FG	Mod-strong siderite-carbonate alteration. Moderate clay alteration of feldspars. Small veinlet of fe-carb at 60 deg TCA.
7.43	10.38	2.95	VOL	VOL	FG	pervasive weak carbonate and chl alteration. Common fractures with fe-carb and cal infill, often altered to limonite. Weak, >1cm, carbonate-sericite alteration halos around fractures. Fracture orientation variable, 80-25 deg TCA.
10.38	10.67	0.29	VOL	VOL	FG	mod-strong siderite-carbonate-clay alt, andesite. Feldspars altered to clay. Small 0.5cm veinlet of calcite/ankerite at 35 deg TCA.
10.67	11.30	0.63	VOL	VOL	FG	pervasive weak carbonate alteration, pervasive weak chl alt. minor ~1mm cal/carb veinlets at 50 deg TCA.
11.30	12.45	1.15	VOL	VOLA	FG	Pervasively bleached and weakly clay altered and fe-oxide stained fxl volcanic (andesite). Minor vinlets >1cm of siderite at 70 deg TCA. Trace Py. Capped on both sides by strong clay-fe-carbonate alteration.
12.45	14.30	1.85	VOL	VOL	FG	F-mxl grey-green andesite. Pervasive weak carbonate alteration, patchy weak to moderate chlorite alteraton, patchy moderate siderite alteration. Linonite common on oxidized fracture surfaces. Minor unoxidized fractures with cal-chl-py. Trace hemitite alteration of mafics in fracture halos. Trace disseminated pyrite.
14.30	14.80	0.50	VOL	VOL	FG	f-mxl med grey green andesite. Strong fe-carb/clay alteration.
14.80	16.55	1.75	VOL	VOL	FG	med grained andesite, verging on diorite, moderately magnetic. Weak chl alteration. Trace carbonate alteration. Minor fractures with siderite/linonite infill.
16.55	23.70	7.15	VOL	VOL	FG	f-mxl andesite. Weakly magnetic. Patchy carbonate alteration and trace to minor bleaching around fractures. Pervasive weak chl alteration. Trace py dissemineated throughout and in fractures. 0.5cm grey qtz, fe-carb, cal with trace py veinlet at 10 deg TCA at 22.60m.
23.70	25.05	1.35	VOL	VOLA	FG	f-mxl andesite, mod siderite alt, mod chl alt. reacts strongly with acid.
25.05	25.58	0.53	VOL	VOLA	FG	Rubble zone, calcite and fe-carbonate on fracture surfaces.
25.58	26.80	1.22	VOL	VOLA	FG	m-fxl andesite
26.80	27.30	0.50	VOL	VOLA	FG	Rubble zone, hematite and chlorite on fracture surfaces
27.10	27.22	0.12	VOL	VOLA	FG	small FBX interval, 10% GOU, reacts strongly with acid.
27.22	28.96	1.74	VOL	VOL	FG	Andesite, fine grained. Weakly reactive, pervasive weak chlorite alteration.
28.96	29.45	0.49	VOL	VOL	FG	Andesite, weak chlorite and clay alteration. Fractures with calcite, siderite, and limonite infill on fracture surfaces. Trace disseminated Py.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
29.45	29.69	0.24	FLR	VOL	FG	Andesite, small fractured/ faulted interval, clay altered, reactive.
29.69	32.80	3.11	VOL	VOL	FG	FG int volcanics (andesite). Common fractures infilled with calcite, siderite, and limonite. Fractures generally 60 and 65 degrees TCA.
32.80	34.34	1.54	VOL	VOLA	FG	broken altered andesite, limonite on fracture surfaces, calcite infill in broken fractures
34.34	35.90	1.56	FLR	VOLA	FG	fine grained intermediate volcanics (andesite), pervasive moderate siderite alteration. Heavily fractured. 1cm calcite vein at 35.40m in
35.90	41.39	5.49	VOL	VOL	FG	FG intermediate volcanics. Weak chlorite and carbonate alteration, especially prevalent around small carbonate veinlets. Veinlets have weak alteration halo, weak sericite, weak siderite, or weak calcite alteration >1cm from vein. Often siderite on fracture surfaces. Occasional hematite alteration rimming some mafic grains.
41.39	42.00	0.61	VOL	VOLA	FG	Pervasive moderate to strong siderite alteration. Weakly reactive to acid. Abundant small feldspar phenocrysts altered to clay. Small veinlets of carbonate generally cutting at 60-70 deg TCA.
42.00	43.80	1.80	VOL	VOLA	FG	Mottled beige and grey fine grained. Patchy moderate siderite alteration. Weakly reactive. Disseminated Py. Minor ankerite-chalcedony-calcite veins ranging between 4-20mm containing minor blebby Py throughout vein material.
43.80	45.24	1.44	VOL	VOLA	FG	Silica alteration, bleached, mottled with oxidation staining.
45.24	45.87	0.63	VOL	VOLA	FG	strongly fe-carbonate altered intermediate volcanics? With 7cm quartz-ankerite-siderite vein with 5% Aspy, 3% Sphal and 1% Py at 45.65-45.72m. Unable to get orientation.
45.87	47.51	1.64	BXA	VEIN	--	Resilicified vein zone. Brecca contains mainly vein material, which is occasional mineralized, in largely unmineralized quartz-siderite-ankerite matrix. Matrix contains minor disseminated sulphides. Over length of interval, ~3% Aspy, 1% Gal, 1% Sph. Vuggy in places containing crystaline Ankerite/Siderite +/- druzy quartz. Vein orientation appears to be 40-45 deg TCA.
47.51	49.90	2.39	VOL	VOLA	FG	FG int volcanics, with patchy mod-strong siderite alt, vein halo carbonate alteration, and patchy moderate hem alt. Minor qtz-carb veinlets. 1cm veinlet at 48.38 with trace Py+/-Aspy, moderate carbonate alteration vein halo.
49.90	57.52	7.62	VOL	VOL	FG	FG int volcanics. Pervasive weak propylitic alteration, pervasive weak carbonate alteration. Minor >2mm qtz-carb veinlets at 50 deg TCA with 5cm weak bleaching and moderate carbonate alteration halo. Carbonate and clay minerals on fracture surfaces. Trace disseminated Py.
57.52	58.28	0.76	VOL	VOL	FG	moderate to strongly clay and carbonate altered interval
58.28	58.47	0.19	VOL	VOL	FG	moderate to strongly clay and carbonate altered interval
58.47	58.63	0.16	VOL	VOL	FG	moderate to strongly clay and carbonate alteration
58.63	58.85	0.22	VOL	VOL	FG	moderate to strongly clay and carbonate altered interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
58.85	63.61	4.76	VOL	VOL	FG	FG int volcanics. Pervasive weak to moderate chlorite alteration. Common thin fractures/veinlets with calcite-chlorite infill and weak carbonate fracture halo, some epidote alteration in fracture halo (ex. At 60.02m).
63.61	64.14	0.53	VOL	VOLA	FG	localized strong clay/argillic alteration, moderately reactive, trace disseminated Py. Veinlets of carbonate-ankerite-pyrite at 50 TCA.
64.52	65.40	0.88	VOL	VOLA	FG	Interval of moderate to strongly clay/argillite altered, mod reactive, rubbly. Trace disseminated py and aspy. Minor gal, shal, aspy, and py in and around small >1cm veinlets.
65.40	65.59	0.19	FLT	VOLA	FG	19cm of fault brecca>gouge, clasts of altered volcanics, trace disseminated py in gouge. Clasts appear to be unmineralized.
65.59	65.74	0.15	BXA	FLTM	MG	Mineralized brecca/mineralized fault material. Clasts are mix of vein material and clay/silica altered int volcanics. Some clasts are weakly mineralized.
65.74	65.84	0.10	MX	FLTM	MG	Main mineralization is hosted between 65.74-65.84cm. This section contians 12% Aspy, 7% Py, 4% Sphal, 2% Gal. Sphal is honey to rust brown. Matrix of brecca through here is more chalcedonic, minor rhodenite and carbonates
65.84	65.94	0.10	BXA	FLTM	MG	Mineralized brecca/mineralized fault material. Clasts are mix of vein material and clay/silica altered int volcanics. Some clasts are weakly mineralized.
65.94	66.54	0.60	VOL	VOLA	FG	Interval of dominantly altered fg int volcanics. Strong clay-carbonte alteration throughout most of interval. Minor quartz-carbonate stringers, unmineralized. Carbonate-clay infill in fractures.
66.54	67.06	0.52	VOL	VOL	FG	relatively unaltered fg int volcanics (andesite). Minor qtz-carb-chlorite-py veinlets with weak clay-chlorite-carbonate alteration halos. Trace disseminated Py around veinlets.
67.06	67.51	0.45	VOL	VOL	FG	rubbly section. Some slickenlines on fracture surfaces. Carbonate-chlorite infill in fractures.
67.51	67.60	0.09	VOL	VOL	FG	moderatly altered, small qtz carb veinlet cutting through at 7o TCA. Chl-carb alteration halo.
67.60	68.20	0.60	VOL	VOL	--	-
68.20	69.62	1.42	VOL	VOL	FG	rubbly section, fractures with chl-cal-hem infill, minor chl alteration
69.62	71.21	1.59	VOL	VOL	--	-
71.21	71.44	0.23	VOL	VOL	FG	veinlets 65 deg TCA with qtz-cal-chl-py infill. Alteration halo of weak to mod clay alteration with chlorite overprinting.
71.44	71.98	0.54	VOL	VOL	--	-
71.98	72.13	0.15	VOL	VOL	FG	Qtz-ank-cal-chl-py veinlet at 40 deg TCA truncated by fractures on either side at 65 deg TCA. Weak clay-chl alteration halo.
72.13	75.19	3.06	VOL	VOL	FG	-
75.19	81.99	6.80	GRD	GRD	MG	Fine grained granodiorite, quartz poor, but present (4% qtz). Strongly magnetic (0.5-1% Magnetite). Pervasive weak to modrate propylitic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
81.99	82.32	0.33	GRD	GRD	MG	Moderately clay altered alteration halo around small 3cm section of gouge and minor breccation with ankerite matrix. Magnetivity decreases as alteration increases. Minor helitite staining/alteration on fracture surfaces. Minor slickensides showing on calicte infill of fracture surfaces in sheared rock.
82.32	83.05	0.73	GRD	GRD	MG	interval moderatly fractured. Fracture surfaces have epidote, chlorite, calcite. Slickensides on some fracture surfaces, 30 deg TCA. Pervasive moderate chlorite alteration. Weak clay alteration.
88.76	88.86	0.10	GRD	GRD	MG	qtz-cal-chl-hem veinlet cutting through granodiorite. Chlorite-epidote alteration halo. 75 deg TCA.
89.84	90.77	0.93	GRD	GRD	MG	alteration section around carbonate-qtz-py veinlets. Weak clay alteration, weak epidote, moderate chl.
90.77	91.26	0.49	GRD	GRD	MG	alteration section around carbonate-qtz-py veinlets. Pervasice moderate carbonate alteration. Pervasive weak clay alteration, weak epidote, moderate chl.
91.26	91.37	0.11	VEN	VEIN	--	11cm vein. Banded altered host rock and ankerite with minor Py and Aspy.
91.37	91.65	0.28	GRD	GRDF	MG	gougy and clay altered, some vein fragments, Sphal, gal, aspy and py present in fragments. Matrix carbonates and chalcedonic quartz
91.65	92.14	0.49	GRD	GRDF	MG	Broken rubble zone. Carbonate, chlorite, siderite trace hematite on fracture surfaces.
93.09	93.67	0.58	GRD	GRDF	MG	Broken rubble zone. Carbonate, chlorite on fracture surfaces.
93.68	93.75	0.07	VEN	VEIN	--	7cm vein. Banded altered host rock and ankerite-chalcedonic quartz with Sphal, gal, Py and Aspy.
93.75	94.05	0.30	GRD	GRDA	FG	Stockworked chaledonic veins with minor sulphides, py and aspy. Bleached and clay altered, resilicified form veinlets.
94.05	96.10	2.05	GRD	GRDA	FG	Moderate to strongly leached and clay altered fine grained granodiorite.
96.10	96.57	0.47	GRD	GRDF	FG	strongly faulted, very low competency, strongly clay altered, moderate chlorite alt.
96.57	97.74	1.17	GRD	GRDF	FG	fractured and faulted, moderate clay altereation, carbonate and chlorite on fracture surfaces. Trace hematite on fracture susrfaces.
97.74	97.88	0.14	GRD	GRDF	FG	fault brecca / gouge material, disseminated py.
97.88	98.14	0.26	VEN	VEIN	--	Zone of brecciated and fractured strongly clay and carbonate altered granodiorite and ankerite-chalcedony veins with trace Py. Veins generally 80 deg TCA.
98.14	98.45	0.31	GRD	GRDA	FG	strongly clay altered fine grained granodiorite. Common carbonate veinlets with trace py.
98.45	98.92	0.47	GRD	GRDA	FG	strongly altered and faulted, fractured and gougy.
98.92	99.57	0.65	GRD	GRDA	FG	strongly clay altered fine grained granodiorite. Common carbonate veinlets with trace py.
99.57	100.85	1.28	GRD	GRD	FG	weak propylitic alteration. Common calcite-chlorite stringers

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
100.85	102.00	1.15	GRD	GRDF	FG	strongly clay altered fg granodiorite, fractured and faulted, gougy at 101.50m, trace disseminated py, locally chlorite altered.
102.00	103.30	1.30	GRD	GRDF	FG	Fractured granodiorite, weak to mod clay alteration. Calcite and epidote infill in fractures. Trace hematite in fractures. Patchy minor epidote alteration.
103.30	103.65	0.35	GRD	GRDF	FG	fractured granodiorite becomes gougy.
103.65	104.00	0.35	GRD	GRDF	FG	fractured granodiorite
104.00	104.60	0.60	GRD	GRDF	FG	very fractured, rubbly, ~10% gouge
104.60	106.00	1.40	GRD	GRDF	FG	fractured, crumbly, rubbly
106.00	106.17	0.17	FLT	GRDF	VF	fault gouge, clasts up to 5mm, 90~ gouge.
106.17	107.20	1.03	GRD	GRDF	FG	fractured rubble zone, calcite and chlorite on fracture surfaces.
107.20	108.48	1.28	GRD	GRD	FG	moderately fractured, calcite infill in fractures. Pervasive weak to moderate chlorite alteration.
108.48	109.18	0.70	GRD	GRDF	FG	Fractured and crackled fine grained granodiorite, calcite infill inbetween brecciated clasts.
109.18	109.73	0.55	VOL	GRD	MG	very fine grained granodiorite or coarse grained andesite. Pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos.
109.73	110.05	0.32	GRD	GRD	FG	Fine grained granodiorite. Pervasive propylitic alteration. Patchy weak clay alteration around minor faulty fractures. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos.
110.05	110.20	0.15	GRD	GRD	FG	small vein cutting 70 deg TCA. Weak clay alteration halo. Vein contains Calcite-Ankerite-Sphalerite-Py-Gal.
110.20	111.86	1.66	GRD	GRD	FG	Moderately fractured fine grained granodiorite with pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos. Strongly magnetic
111.86	112.00	0.14	GRD	GRD	FG	small fracture/veinlet at 80 deg TCA with hem-cal-chl-py infill.
112.00	118.75	6.75	GRD	GRD	FG	Moderately fractured fine grained granodiorite with pervasive propylitic alteration. Common fractures with calcite-chlorite infill and weakly bleached +/- carbonate alteration halos. Minor patchy epidote alteration around some fractures, minor Py on some fracture surfaces. Strongly Magnetic.
118.75	122.20	3.45	GRD	GRD	FG	same as above but with weak to moderate silica alteration
122.20	122.21	0.01	VEN	GRDF	--	altered granodiorite with two small mineralized veins (4cm vein @ 122.35-122.39, >1cm vein @ 122.60-122.61m). Veins dominantly sulphides (Sphal-Py-Gal) with minor ankerite-quartz. Py disseminated / localized to fracture halos in altered rocks around veins.
122.21	122.85	0.64	VEN	GRDF	--	altered granodiorite with two small mineralized veins (4cm vein @ 122.35-122.39, >1cm vein @ 122.60-122.61m). Veins dominantly sulphides (Sphal-Py-Gal) with minor ankerite-quartz. Py disseminated / localized to fracture halos in altered rocks around veins.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
122.85	125.75	2.90	FLR	GRDF	--	Brecciated but rehealed with silica flooding with moderate clay-sericite altertation. Minor carbonate-clay-shlorite filled fractures. Some disseminated Py and Sphal in these areas.
125.75	126.10	0.35	FLR	GRDF	--	fractured, but rehealed clay-sericite-silica-chlorite altered granodiorite proximal to veining. Py-aspy-gal disseminated but localized around fractures
126.10	126.17	0.07	VEN	GRDF	--	Strongly resilicified brecciated interval of carbonate-rhodochrosite vein and altered host rock clasts, with minor sulphides. Matrix is grey chalcedonic quartz. Sulphides Py-sphal-gal
126.17	126.53	0.36	FLR	GRDF	--	Clay-sericite-silica-chlorite altered around vein. Minor py-gal in fractures and disseminated in fracture halos
126.53	131.06	4.53	FLR	GRDF	--	silica altered, broken rock, carbonate on fracture surfaces, pervasive weak chlorite alteration.
131.06	131.20	0.14	GRD	GRD	FG	same as general lith
131.20	131.55	0.35	GRD	GRD	FG	strained granodiorite, moderately clay altered, carbonate infill in common fractures. Rubbly.
131.55	139.20	7.65	GRD	GRD	FG	same as general lith
139.20	139.60	0.40	GRD	GRD	FG	small brecciated vein interval, healed with carboante-quartz, banded py in alteration halo around vein/brecca. Trace sphal.. Weak alteration halo.
139.60	139.98	0.38	GRD	GRD	FG	same as general lith
139.98	140.62	0.64	FLT	GRDA	--	strained/faulted interval, crumbly, rubbly, clay-chlorite alterred. Carbonate on fracture surfaces.
140.62	141.00	0.38	MX	GRDA	--	package of alteration around small 2cm poorly mineralized vein at 140.72m. Minor spahl-py-gal. trace fuchsite in altered halo.
141.00	141.15	0.15	GRD	GRDA	--	chl altered fg GRD
141.15	141.18	0.03	VEN	GRDA	--	small well mineralized veinlet Spah-py-gal. fractured and rehealed with carboante . Weak alteration halo.
141.18	143.40	2.22	GRD	GRDA	--	fractured mod alt grd, alteration stronger around minor poorly mineralized carbonate veinlets. Weakly strained and clay altered in areas.
143.40	145.30	1.90	GRD	GRDA	--	fine grained grd , weak pervasive clay alt, chl alt. minor carboante filled fractures. Trace epidote alteration around some fractures.
145.30	147.49	2.19	FLT	GRDA	--	altered, faulted and sheared interval. 10-15cm gougy sections at 146.2, 146.7, 147.35m. Other rock in interval broken, bu tnot rubbly
147.49	147.75	0.26	MX	GRDA	--	brecciated carbonate-quartz-sulphide vein. Crumbled sulphides/ vein material/ carbonate in matrix, rehealed with silica. Moderate to strong sericite alteration halo.
147.75	149.30	1.55	GRD	GRDA	--	altered vein halo, moderate to intense sericite alteration weak clay alteration. Small brecciated rehealed 4cm carbonate veinlet at 148.35, minor Py.
149.30	162.75	13.45	GRD	GRD	FG	same as general lith
162.75	163.16	0.41	GRD	GRDA	FG	clay sericite altered package around small vein

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
163.16	163.20	0.04	VEN	GRDA	--	Czrbonzte-qtz-Py-gal-sph veinlet sulphides blebby thoughout vein but voncentrated on edges, carbonate in middle.
163.20	163.35	0.15	GRD	GRDA	FG	altered package around vein
163.35	167.25	3.90	GRD	GRD	FG	same as general lith
167.25	167.82	0.57	GRD	GRDA	FG	Altered, light green grey, fine grained granodiorite. Moderate to strong pervasive light green clay alteration (smectite? Sericite? Clay/chlorite?). Minor pyrite occuring in bands and disseminated.
167.82	167.95	0.13	VEN	GRDA	--	Fractured ankerite-quartz-calcite, rehealed with chalcedony matrix, minor sulphides. Two sets of fractures at 80 and 65 deg TCA.
167.95	168.20	0.25	GRD	GRDA	FG	Altered, light green grey, fine grained granodiorite. Moderate to strong pervasive light green clay alteration (smectite? Sericite? Clay/chlorite?). Minor pyrite occuring in bands in altered rock around vein.
168.20	171.00	2.80	GRD	GRD	FG	Fine grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos.
171.00	173.78	2.78	GRD	GRD	FG	Fractured zones with calcite-chlorite-hematite slickensides.
173.78	178.00	4.22	GRD	GRD	FG	Fine grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite alteration halos.
178.00	179.27	1.27	GRD	GRD	MG	medium grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos. Some fractured zones with calcite-chlorite-hematite slickensides.
179.27	181.00	1.73	GRD	GRD	MG	Some fractured zones with calcite-chlorite-hematite slickensides.
181.00	184.78	3.78	GRD	GRD	MG	medium grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite-epidote alteration halos.
184.78	185.48	0.70	GRD	GRD	FG	weak to moderately altered fine grained granodiorite. Moderate clay/sericite alteration and weak chlorite alteration shoulders a 1.5cm ankerite-quartz vein. No sulphides observed.
185.48	189.50	4.02	GRD	GRD	FG	Pervasve weak chlorite alteration. Common fractures > veinlets but now with epidote halo and fracture/veinlet infill
189.50	190.30	0.80	GRD	GRDA	FG	Altered package surrounding sheared carbonate-chlorite vein. Altered rocks contain ~.5cm bands with up to 30% disseminated Py. Clay altered, light greenish grey (smectite,sericite?) tace flecks of fuchsite. Minor carbonate veinlets >5mm.
190.30	190.43	0.13	FLR	GRDA	MG	Sheared vein material and carbonate-chlorite vein. Trace py in sheared rock and in vein material. Stongly sericite/clay altered.
190.43	191.10	0.67	GRD	GRDA	FG	Altered package surrounding sheared carbonate-chlorite vein. Clay altered, light greenish grey (smectite,sericite?) tace flecks of fuchsite. Minor carbonate veinlets >5mm.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
191.10	191.91	0.81	GRD	GRD	FG	relatively unaltered granodiorite, two small veinlets of medium grained granodiorite at 191.55m and 191.70m
191.91	192.18	0.27	GRD	GRDA	FG	clay and chlorite altered, disseminated py. Alteration increasing towards vein
192.18	192.23	0.05	FLT	GRDA	--	small gouge > fractured clay-calcite-chlorite-sulphides on edge of vein. Minor disseminated Py in gouge.
192.23	192.47	0.24	VEN	GRDA	--	Ankerite-rhodochrosite-greyquartz-siderite vein with 7% Aspy, 4% Py, 2% Sphal, 1% Gal. Clasts of silicified, clay altered GRD.
192.47	192.56	0.09	GRD	GRDA	FG	clay and chlorite altered, minor disseminated aspy and py, trace fuchsite. Alteration stongest proximal to vein
192.56	193.54	0.98	GRD	GRD	FG	weak proylitic alt, weak epidote fracture halo
193.54	193.64	0.10	GRD	GRD	FG	Altered halo around 1cm Rhodochrosite-quartz-sericite vein
193.64	194.50	0.86	GRD	GRD	FG	weak propylitic alteration
194.50	196.90	2.40	GRD	GRD	FG	banded disseminated Py-Aspy vein/fracture halo, weak to moderate chl/ser/clay alteration halos around >1cm veinlets. Trace fuchsite.
196.90	200.40	3.50	GRD	GRD	FG	weak propylitic alteration
200.40	200.83	0.43	GRD	GRD	FG	sericite-smectite-clay altered
200.83	200.97	0.14	VEN	GRD	--	quartz-ankerite Sphal-Gal-Aspy-Py vein. 10% sulphides
200.97	203.74	2.77	GRD	GRD	FG	weak clay chlorite alteration between veins, trace py
203.74	203.79	0.05	VEN	GRD	--	ankerite-qtz-ser/smectite vein, minor Sphal-gal-Py
203.79	208.50	4.71	GRD	GRD	FG	unmineralized altered and unaltered GRD, some veinlets with alteration halos, but nothing of note
208.50	209.13	0.63	VEN	GRD	--	veinlet swarm, small but moderately well mineralized veinlets of qtz-ankerite-Py
209.13	212.10	2.97	GRD	GRD	FG	generally unaltered GRD, minor qtz-carbonate-py veinlets with altered vein halo
212.10	212.16	0.06	FLR	GRD	--	small sheared / gougy interval, minor Gal-Py
212.16	216.64	4.48	GRD	GRD	FG	generally altered, minor hematite alteration, sericite-clay alteration arounf veinlets.
216.64	216.94	0.30	VEN	GRD	--	two proximal, ~7cm, moderately well mineralized qtz-ankerite-Py-sphal-gal veinlets
216.94	222.00	5.06	GRD	GRD	FG	GRD with few small veinlets (218.74, 219.18, 219.83) with gal, sphal, py. Moderate clay-chl-carb alteration halos around veinlets.
222.00	224.85	2.85	GRD	GRD	MG	weakly propylitic altered GRD. Minor fractures with >2cm epidote alteration halos, lesser veins with chlorite-calcite
224.85	225.55	0.70	GRD	GRD	MG	fractured, hematite alteration on slicken lines
225.55	228.80	3.25	GRD	GRD	MG	relatively unaltered, minor epidote alteration around some fractures, minor carbonate veinlets, pervasive weak propylitic alteration
228.80	228.90	0.10	FLR	GRD	--	sheared rubble zone, carbonate in some fractures

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
228.90	260.55	31.65	GRD	GRD	MG	weakly propylitically altered, pervasive chlorite alteration, carbonate and epidote alteration localized to fracture halos. Slightly coarser than granodiorite above, but still on the fine side of medium grained.
260.55	260.73	0.18	GRD	GRD	FG	finer grained, but otherwise same as above, disseminated py
260.73	260.82	0.09	VEN	VEIN	--	about 50% Py, 10% Aspy, 10% Sphal, 7% Gal, and 7% medium green grey, kind of an olive green, clay mineral, smectite? Sericite? No strong bleaching halo. No carbonates or Quartz.
260.82	261.04	0.22	GRD	GRDA	VF	weak to moderately altered, finer grained host rock, still vfg granodiorite in here
261.04	261.10	0.06	VEN	VEIN	--	Small vein between granodiorite and felsic dyke
261.10	264.30	3.20	QFP	DYKM	VF	light grey-green-buff, vessicular quartz feldspar porphyritic dyke. Vessicles rimmed with mineral altered to clay, remainder filled with quartz or light green clay mineral. Feldspars altered to clays +/- light green clay mineral, Smectite? Sericite? Disseminated Py thoughout.
264.00	264.09	0.09	VEN	VEIN	--	same as general lith
264.09	265.70	1.61	GRD	GRD	MG	mostly competent rock
265.70	268.00	2.30	FLR	GRD	MG	fractured by low angle fracutes, calcite infill, some gougy/rubbly sections between 266 and 266.60m
268.00	269.70	1.70	GRD	GRD	MG	generally competent, some low angle fractures w carbonate infill. Last 40 cm moderate/weak bleaching from vein below.
269.70	269.88	0.18	VEN	VEIN	--	same as general lith
269.88	270.20	0.32	GRD	GRDA	MG	alteration halo around vein chlorite clay alteration
270.20	272.78	2.58	GRD	GRDA	MG	unaltered grd
272.78	273.22	0.44	GRD	GRDA	MG	alteration around small qtz-carb py veinlet
273.22	274.55	1.33	GRD	GRDA	MG	same as above
274.55	274.95	0.40	VEN	VEIN	--	same as general
274.95	282.46	7.51	GRD	GRD	MG	grd, minor veinlets with trace sulphides
282.46	282.56	0.10	VEN	GRD	--	see general lith for sescription
282.56	294.60	12.04	GRD	GRD	MG	grd, weak clay alt of feldspars.
294.60	295.40	0.80	FLR	GRD	--	fractured, crumbly interval, slickensides on low angle surface (15 deg TCA). Carb, hem,py on slickenside.
295.40	299.65	4.25	GRD	GRD	MG	grd, weak clay alt of feldspars. Minor fractures with carbonate-chlorite infill

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
299.65	300.50	0.85	GRD	GRD	MG	fractured interval, with small 5cm sheared interval at 299.65. small 2cm qtz-pyrite veinlet at 300.10 at 30 deg TCA. Broken down ton 300.5m, calcite chlorite infill
300.50	305.07	4.57	GRD	GRD	MG	weak clay alt of feldspars, minor fractures with calcite-chlorite infill
305.07	308.00	2.93	GRD	GRD	MG	three small >1cm veinlets of qtz-carb-py with moderate ~7cm moderately bleached vein halos at 306m, 306.8m, 307.9m. Orientations are variable, range between 25 deg tca to 70 deg tca.
308.00	314.20	6.20	GRD	GRD	MG	grd, pervasive weak chl alt, weak clay alt
314.20	314.60	0.40	FLR	GRD	--	very minor fracture fault, brecciated/crumbled calcite, hematite stained, small clasts of host rock. Weak epidote-clay-chlorite alterationhalo. Trace py.
314.60	322.00	7.40	GRD	GRD	MG	minor cm scale alteration halos around fractures. Fracture orientations all over the place. Small rubbly section at 318m. Trace pyrite on fracture surfaces. Minor epidote alteration around fractures. Some fractures filled with calcite-chlorite.
322.00	323.60	1.60	GRD	GRDA	MG	weakly clay altered, focused around fractures, minor dissemated py, and py hosted in minor quartz veinlets. Patchy epidote alteration, also focused around fractures or veinlets.
323.60	324.45	0.85	GRD	GRDA	MG	Strongly altered grd veinhalo around vein. Pervasive clay-chlorite-sericite alteration. Py hosted in fractures and disseminated in rock.
324.45	324.95	0.50	VEN	GRDA	--	crackled and rehealed quartz-carboante vein, areas of brecciated carbonate in chlorite matrix. Chaotically distributed pyrite-sphalerite in sheared/brecciated sections. Pyrite commonly disseminated thoughout altered host rock clasts and fragments in brecca/between breccia veinlets
324.95	326.70	1.75	GRD	GRDA	MG	trace fuchsite alteration in some small clasts/grains. Patchy silica alteration, pervasive clay and weak clhlorite alteration. Rock is crackled, especially visible in areas where silica alteration has permiated the rock. Small chlorite alteration halos around fractures in these areas. Small carboante-quartz veinlets with minor py-sphal. Trace gal in veinlets.
326.70	328.75	2.05	QFP	DYKM	MG	porphyritic, disseminated py and sphal(?), felds weak clay alteration
328.75	329.41	0.66	QFP	DYKM	FG	same as above but finer grained and lesser alteration
329.41	330.73	1.32	QFP	DYKM	MG	porphyritic, disseminated py and sphal(?), felds weak clay alteration, minor mineralized veinlets with py and sphal
330.73	331.87	1.14	QFP	DYKM	FG	same as above but finer grained and lesser alteration. Small brecciated interval at 331.55 with black (sulphide rich?) gouge matrix. Minor veinlets with py/sphal, lesser disseminated sphal(?). Gradational contacts above and below
331.87	335.30	3.43	QFP	DYKM	MG	porphyritic, disseminated py and sphal?, felds weak clay alteration, minor mineralized veinlets with py and sphal?
335.30	335.60	0.30	QFP	DYKM	FG	fine gained, somewhat sheared, trace to minor disseminated py.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
335.60	338.35	2.75	QFP	DYKM	MG	porphyritic, disseminated py, felds weak clay alteration, minor mineralized veinlets with py and sphal?
338.35	338.38	0.03	VEN	GRD	--	3cm , smectite-py-spah veinlet
338.38	338.40	0.02	FLR	GRD	--	2cm fault/gougy section
338.40	338.56	0.16	GRD	GRD	FG	moderately clay altered GRD.
338.56	340.72	2.16	GRD	GRD	FG	unaltered fg GRD. Minor 1-3cm veinlets of Py-sphal, moderate alteation halos.
340.72	344.42	3.70	GRD	GRD	FG	unaltered grd, minor epidote alteration frfacture halos

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.80	0.80	CAS	--	Casing							
0.80	2.85	2.05	OVB	--	Overburden, clasts of f-mxl int. volcanics (Andesite/microdiorite)							
						MD	GY					
2.85	11.30	8.45	VOL	FG	Andesite to fine grained microdiorite/diabase, blue grey, mod magnetic. Pervasive weak carbonate and chlorite alteration. Multiple mm scale calcite-siderite-chl infilled veinlets, often altered (oxidized) to limonite with >1cm weak-moderate clay-carbonate alteration halos. Moderate clay alteration of feldspars throughout.							
									SID	1I		
						MD	GY	PH	PRO	2I		
11.30	12.45	1.15	VOL	FG	Pervasively bleached and weakly clay altered and fe-oxide stained fxl volcanic (andesite). Minor vinlets >1cm of siderite at 70 deg TCA. Trace Py. Capped on both sides by strong clay-fe-carbonate alteration.							
						MD	BF	PH	SID	3I		
						MD	OL		CLY	1I		
						LT	GY					
12.45	23.70	11.25	VOL	FG	F-mxl grey-green andesite. Pervasive weak carbonate alteration, patchy weak to moderate chlorite alteraton, patchy fe-carb/clay alteration. Limonite common on oxidized fracture surfaces. Minor unoxidized fractures with cal-chl-py. Trace hemitite alteration of mafics in fracture halos. Trace disseminated pyrite. 5mm grey qtz-siderite-cal vein with trace py veinlet at 10 deg TCA at 22.60m.							
									HEM	1I		
						LT	BL		OXI	2I		
						LT	GN		LIM	1I		
						MD	GY		PRO	2I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.70	27.22	3.52	VOL	FG	f-mxl andesite, mod siderite alt, mod chl alt. reacts strongly with acid. Minor fractures with siderite/chl/cal/limonite on fracture surfaces. Rubble zone between 25.05-25.58m, calcite and fe-carb/limonite on fracture surfaces. FBX interval between 27.10-27.22m. Second rubble zone between 26.80-27.30m. Goethite on rubble fractures between 26.80-27.30m.							
27.22	32.80	5.58	VOL	FG	Andesite, fine grained. Weakly reactive, pervasive weak chlorite alteration. Fractures with calcite, siderite infill, altered to limonite on oxidized surfaces. Trace disseminated Py. Faulted interval at 29.45-29.69m.							
						MD	GY	PH	CHL	1I	Py	1
						MD	GN		CLY	1I		
						LT	BL					
32.80	35.90	3.10	VOL	FG	fine grained intermediate volcanics (andesite), pervasive moderate siderite alteration. Heavily fractured. 1cm calcite vein at 35.40m in							
						MD	OR					
						MD	GY	RB	SID	2I	Go	0.5
						LT	BF		CLY	1I		
35.90	41.39	5.49	VOL	FG	FG intermediate volcanics. Weak chlorite and carbonate alteration, especially prevalent around small carbonate veinlets. Veinlets have weak alteration halo, weak sericite, weak siderite, or weak calcite alteration >1cm from vein. Often siderite on fracture surfaces. Occasional hematite alteration rimming some mafic grains.							
									HEM	1I		
						MD	GY	MA	PRO	2I		
						MD	GN		SID	1I		
41.39	45.87	4.48	VOL	FG	Altered Volcanics, upper contact of alteration front very sharp, truncated by small veinlet 65 deg TCA, lower contact brecciated qtz vein.							
						LT	GY	MA	SID	4I		
						MD	BF		CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
45.87	47.51	1.64	BXA	--	Resilicified vein zone. Brecca contains mainly vein material, which is occasional mineralized, in largely unmineralized quartz-siderite-ankerite matrix. Matrix contains minor disseminated sulphides. Over length of interval, ~3% Aspy, 1% Gal, 1% Sph. Vuggy in places containing crystaline Ankerite/Siderite +/- druzy quartz. Vein orientation appears to be 40-45 deg TCA.							
						LT	GY	BX	SIL	3I	As	3
						LT	BF		BLE	1I	Sp	1
						LT	OR				Gn	1
47.51	49.90	2.39	VOL	FG	FG int volcanics, with patchy mod-strong siderite alt, vein halo carbonate alteration, and patchy moderate hem alt. Minor qtz-carb veinlets. 1cm veinlet at 48.38 with trace Py+/-Aspy, moderate carbonate alteration vein halo.							
						MD	BR	MA	SID	4I	Py	0.5
						MD	GN		HEM	2I	As	0.5
49.90	57.52	7.62	VOL	FG	FG int volcanics. Pervasive weak propylitic alteration, pervasive weak carbonate alteration. Minor >2mm qtz-carb veinlets at 50 deg TCA with 5cm weak bleaching and moderate carbonate alteration halo. Carbonate and clay minerals on fracture surfaces. Trace disseminated Py.							
						MD	GY		CHL	1I		
									ARG	1I		
						DK	GN		PRO	2I	Py	0.5
57.52	63.61	6.09	VOL	FG	FG int volcanics. Pervasive weak to moderate chlorite alteration. Common thin fractures/veinlets with calcite-chlorite infill and weak carbonate fracture halo, some epidote alteration in fracture halo (ex. At 60.02m). Clay altered, rubbly and fractured interval at 57.52-57.84m. Small grey silicious/clay altered dyke between 58.47-58.63m, shouldered by clay altered and moderately bleached interval between 58.28-58.85m.							
						MD	GY	MA	PRO	2I	Py	0.1
						LT	BL	PH	SER	2I		
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.61	65.59	1.98	VOL	FG	Interval of dominantly altered fg int volcanics, locally rubbly, and with a mineralized resilicified fault brecca /vein interval between 65.41-65.94m. Strong clay-carbonte alteration throughout most of interval. Patchy limonite/oxidation around 64m.							
											Py	1
									PRO	1I	Sp	1
						LT	GN		CLY	2I	As	1
						MD	GY	MA	BLE	3I	Py	0.5
											Gn	1
65.59	65.94	0.35	FLR	MG	Mineralized brecca/mineralized fault material. Clasts are mix of vein material and clay/silica altered int volcanics. Some clasts are weakly mineralized. Ankerite-chalcedony-Rhodenite-carbonate choliform matrix contains disseminated py/aspy. Main mineralization is hosted between 65.74-65.84cm. This section contians 12% Aspy, 7% Py, 4% Sphal, 2% Gal.							
											Rh	7
						MD	GY	BX	CLY	3I	Py	1
						LT	GY	RX			As	2
								SH			Py	1
											Sp	1
											Gn	0.5
65.94	66.54	0.60	VOL	FG	Interval of dominantly altered fg int volcanics. Strong clay-carbonte alteration throughout most of interval. Minor quartz-carbonate stringers, unmineralized. Carbonate-clay infill in fractures.							
									BLE	2I		
						LT	GY	MA	CLY	3I		
								PH	ARG	3I		
66.54	75.19	8.65	VOL	FG	relatively unaltered fg int volcanics (andesite). Minor qtz-carb-chlorite-py veinlets with weak clay-chlorite-carbonate alteration halos. Trace disseminated Py around veinlets. Locally rubbly and fractured 67.06-67.30m and 68.20-69.65m.							
						DK	GY	MA	PRO	1I	Py	0.5
						MD	GN	PH	CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
75.19	91.26	16.07	VOL	MG	Fine grained granodiorite, quartz poor, but present (4% qtz). Strongly magnetic (0.5-1% Magnetite). Pervasive weak to modrate propylitic alteration. Minor veinlets generally at 70 TCA with cal-qtz-chl-infill and cal-chl-epidote alteration halos (Ex 77.14m and 78.80-78.89m). Fractures infilled with calcite-chlorite, with weak vein halos.							
						DK	GN	MA	PRO	3I	Mg	0.5
						MD	GY		HEM	1I		
91.26	91.37	0.11	VEN	--	11cm vein. Banded altered host rock and ankerite with minor Py and Aspy.							
						LT	GY	BN	CHL	2I	Py	2
						MD	GN		CLY	2I	As	2
91.37	93.68	2.31	VOL	MG	fractured and locally altered medium grained granodiorite.							
						MD	GY	BN	CLY	2I		
						LT	GN		CHL	2I		
93.68	93.75	0.07	VEN	--	7cm vein. Banded altered host rock and ankerite-chalcedonic quartz with Sphal, gal, Py and Aspy.							
											Sp	5
											Gn	6
											As	5
											Py	4
93.75	96.10	2.35	GRD	FG	Moderate to strongly leached and clay altered fine grained granodiorite.							
						LT	GY	MA	CLY	4I		
						LT	GN		BLE	3I		
96.10	97.88	1.78	GRD	FG	faulted strongly altered granodiorite							
						LT	GY	SH	CLY	3I		
						LT	GN		CHL	2I		
97.88	98.14	0.26	VEN	--	Zone of brecciated and fractured strongly clay and carbonate altered granodiorite and ankerite-chalcedony veins with trace Py. Veins generally 80 deg TCA.							
						LT	GY	BX	CHL	2I	Py	1
						LT	GN		CLY	3I	Ak	8
98.14	99.57	1.43	GRD	FG	strongly clay altered fine grained granodiorite. Common carbonate veinlets with trace py. Slickensides in minor gouge section at 98.90m.							
						LT	GN		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MA	CLY	4I	Py	0.5
99.57	100.85	1.28	GRD	FG	weak propylitic alteration. Common calcite-chlorite stringers							
						DK	GN		CHL	2I	Mg	1
						MD	GY					
100.85	107.20	6.35	GRD	FG	Fault zone. Pervasive moderate clay/chlorite/propylitic alteration.							
						DK	GN	FR	PRO	3I	Py	0.1
						MD	GY		CHL	2I		
									CLY	1I		
107.20	108.48	1.28	GRD	FG	moderately fractured, calcite infill in fractures. Pervasive weak to moderate chlorite alteration.							
						MD	GY					
						DK	GN	CR	CHL	2I		
108.48	109.18	0.70	GRD	FG	Fractured and crackled fine grained granodiorite, calcite infill inbetween brecciated clasts.							
						DK	GN	CR	CLY	2I	Py	0.5
									CHL	3I		
109.18	122.20	13.02	GRD	FG	pervasively weak to moderatly propylitically altered fine grained granodiorite, very fine grained in places (andesite). Abundant veins with calcite-chlorite infill, and weak calcarious alteration halos. Minor carbonate-quartz-ankerite veinlets and epidote alteration around some fractures.							
						DK	GN	MA	PRO	2I		
						MD	GY	PH				
122.20	131.06	8.86	BXA	FG	Brecciated granodiorite, totally recemented through silica flooding but brecciated clasts clearly visible, up to 5cm, matrix dark grey dominnatly silica, smaller rubble granodiorite clast. Interval is locally veined (122.20-122.85m, 125.75-126.3m), with moderate clay/sericite alterationa round veining. Minor carbonate-clay-chlorite veining.							
									SER	1I	Sp	0.5
									CLY	1I	Gn	0.5
						MD	GY		CHL	2I	As	0.5
						DK	GN	RX	SIL	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
131.06	139.98	8.92	GRD	FG	fine grained granodiorite. Minor strained section at top of interval. Pervasive weak chl alteration, minor carbonate infilled fractures. Minor epidote alteration around some fractures. Small mineralized interval at 139.1-131.6m							
											Gn	0.1
						MD	GN	MA	CHL	2I	Py	0.1
						MD	GY		CLY	1I	Sp	0.1
139.98	149.30	9.32	GRD	FG	dominantly pervasive weakly clay altered granodiorite. Multiple fracture/shear/strained intervals, stronger alteration halos around these intervals. Few small >5cm poorly mineralized carbonate qtz veins near sheared areas. Well mineralized vein at 147.5m.							
											Gn	0.5
											Sp	0.5
						LT	GN	SN	CLY	3I	Py	0.5
						LT	GY	MA	CHL	2I	As	0.5
149.30	162.75	13.45	GRD	FG	med grey green fg grd, common carbonate veinlets, small moderate vein halo clay-carb alteration, lesser chlorite alteration, trace epidote alteration around some fractures. .							
						MD	GY		CLY	1I		
						LT	GN		CHL	1I		
162.75	163.35	0.60	GRD	FG	Altered package around small vein							
						LT	GN		CHL	1I	Gn	1
						LT	GY	ZO	CLY	2I	Py	1
163.35	167.25	3.90	GRD	FG	relatively unaltered granodiorite, some fractures with epidote alteration halo. Veinlets/fractures with calcite infill . Minor hematite infill.							
						LT	GN					
						MD	GY	MA	PRO	2I		
167.25	168.20	0.95	GRD	FG	Altered, light green grey, fine grained granodiorite. Moderate to strong pervasive light green clay alteration (smectite? Clay/chlorite?). 5cm of veining at 167.8m, fractured ankerite-quartz-calcite, rehealed with chalcedony matrix, minor sulphides. Minor pyrite occuring in bands in altered rock around vein.							
									CHL	1I		
						LT	GY		CLY	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	ZO	SER	3I	Py	1
168.20	189.50	21.30	GRD	FG	Fine grained granodiorite. Pervasve weak chlorite alteration. Common fractures > veinlets with calcite-chlorite infill and weak clay-calcite-chlorite alteration halos. Some fractured zones with calcite-chlorite-hematite slickensides.							
						DK	GY	MA	CHL	2I	Py	0.1
						MD	GN		PRO	1I		
						MD	BL					
189.50	191.10	1.60	GRD	FG	Altered package surrounding sheared carbonate-chlorite vein. Altered rocks contain ~.5cm bands with up to 30% disseminated Py. Clay altered, light greenish grey (smectite,sericite?) tace flecks of fuchsite. Minor carbonate veinlets >5mm.							
						LT	GY	ZO	CHL	2I		
						LT	GN		CLY	3I		
									SER	3I		
191.10	191.91	0.81	GRD	FG	relatively unaltered granodiorite, two small veinlets of medium grained granodiorite at 191.55m and 191.70m							
						MD	GN					
						MD	GY	MA	PRO	2I		
191.91	192.56	0.65	GRD	FG	Altered envelope around small sheared/faulted/vein							
192.56	222.00	29.44	GRD	FG	fine grained granodiorite, pervasive weak propylitic alteration, common calcite-chlotite veinlets. Weak to moderate clay-carbonate +/- epidote alteration around veinlets <5mm. Multiple small intervals of banded Aspy-Py around veinlets. Several small veinlets (1-3cm) with minor Py-gal-sphal-Aspy							
									SER	1I		
						MD	GY		CLY	1I	Py	0.5
						MD	GN	MA	PRO	2I	As	0.5
222.00	260.73	38.73	GRD	MG	medium grained minor fractures with >2cm epidote alteration halos, lesser veins with chlorite-calcite							
260.73	260.82	0.09	VEN	--	good lil vein. Notably no carbonate or quartz, and no alteration halo or bleaching associated.							
											Se	7

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN				As	10
											Sp	20
											Gn	7
						MD	BR	MO			Py	50
260.82	261.04	0.22	GRD	FG	weak to moderatly chlorite altered, finer grained host rock, still vfg granodiorite in here							
						MD	GY		CHL	4I		
						MD	GN	SH	SER	4I		
261.04	261.10	0.06	VEN	--	small vein							
											As	10
											Sp	15
											Gn	15
											Py	30
261.10	264.30	3.20	QFP	VF	light grey-green-buff, vessicular quartz feldspar porphyritic dyke. Vessicles rimmed with mineral altered to clay, remainder filled with quartz or light green clay mineral. Feldspars altered to clays +/- light green clay mineral, Smectite? Sericite? Disseminated Py thoughout.							
						LT	GY	PO	CLY	2I	Py	0.5
						LT	GN		SER	2I		
						LT	BF					
264.00	264.09	0.09	VEN	--	9cm vein swarm, veinlets and wall rock, Py-gal-sph-chlorite-quartz-carbonate veinlets. In GRD in footwall of dyke-GRD contact. Dominantly sulphides. Chlorite alteation in GRD.							
						DK	GN		CHL	4I	Gn	5
						MD	BR				Sp	3
											Py	60
264.09	269.70	5.61	GRD	MG	locally fractured by low angle fractures infilled with calcite. No alteration associate with infill/fractures. Pervasive chlorite alteration							
						MD	GN	FR	CHL	3I		
						MD	GY					
269.70	269.88	0.18	VEN	--	ankerite-calcite-qtz veinlet swarm, minor Py, trace Gal							
											Py	4
											Gn	1
269.88	274.55	4.67	GRD	MG	moslt weakly altered grd, associated with minor veining/veining below interval.							
						MD	GN	MA	CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		CLY	1I		
									SER	1I		
274.55	274.95	0.40	VEN	--	quartz-carb-py-gal veinlet swarm, altered grd around veinlets							
											Py	3
											Gn	1
274.95	322.00	47.05	GRD	MG	weak chl alt, trace clay alt grd. Small ~1cm qtz-carb-pyrite veinlets at 278.82, 279.65m. Larger 10cm quartz-carb-py veinlet at 282.46-282.56m, minor smectite, unknown red mineral (hematite? Cinnabar?), and pyrite. Modest alteration halo, localized to ~5cm around vein. Trace diss py in vn halo							
						MD	GN	MA	CHL	2I	Py	0.5
						LT	GY		CLY	1I		
322.00	326.70	4.70	GRD	MG	altered granodiorite around large dyke down hole. Crumbled and rehealed zone with mineralization at 324.45-324.95m. Patchy silica alteration. Minor small veinlets with cabonate-qtz-py-sphal. Possibly minor patchy disseminated sphalerite? Rock is fractured and rehealed, especially in silica altered sections.							
									CHL	1I		
						LT	GN		CLY	2I	Sp	1
						LT	GY	CR	SIL	2I	Py	1
326.70	338.35	11.65	QFP	FG	Fine grained, quartz-feldspar-muscovite porphyric aplite/rhyolite dyke. Top contact 75 dec TCA, lower contact ~60 deg TCA. Feldspar phenocrysts up to 30mm, quartz phenocrysts up to 11mm, muscovite >1mm. Abundant pyrite disseminated thoughout, rimming or occuring inside quartz or feldspar phenocrysts, and commonly in small veinlets cutting through. Disseminated brown mineral (honey brown sphalerite????) sometimes occuring in elongated crystals, generally small disseminated clumps, sometimes in and alongside pyrite. Appears to be multiple stages of dyke emplacement, fining and coarsening in abrupt intervals. Few small fractured intervals.							
						LT	GY	PO	CLY	2I	Py	2
						LT	BF	MA	SER	1I	Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
338.35	344.42	6.07	GRD	FG	Fine to medium grained GRD. Pervasive weak chloroite alteration. Localized weak sericite/epidote alteration proximal to fractures and veinlets. Minor veins/veinlets with Py-Gal imediatley below contact with dyke and between 340.23-340.72m.							
						MD	GN	MA	CHL	2I	Py	1
						MD	GY		CLY	1I	Sp	1
									SER	1I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.76	50	0.00	0	--	1H	6W	
1.52	3.05	1.53	1	65	0.00	0	--	1H	6W	
3.05	4.57	1.52	1.17	77	0.37	24	--	1H	5W	
4.57	6.10	1.53	1.28	84	0.60	39	--	1H	4W	
6.10	7.62	1.52	1.39	91	0.61	40	--	2H	3W	
7.62	9.14	1.52	1.17	77	0.59	39	--	4H	4W	
9.14	10.67	1.53	1.46	95	0.62	41	--	2H	5W	
10.67	12.19	1.52	1.37	90	0.75	49	--	3H	4W	
12.19	13.72	1.53	1.35	88	0.58	38	--	2H	3W	
13.72	15.24	1.52	1.42	93	0.23	15	--	1H	4W	
15.24	16.76	1.52	1.39	91	0.48	32	--	4H	2W	
16.76	18.29	1.53	1.33	87	0.25	16	--	4H	2W	
18.29	19.81	1.52	1.41	93	0.67	44	--	4H	2W	
19.81	21.34	1.53	1.49	97	0.82	54	--	4H	2W	9cm of clay gouge
21.34	22.85	1.51	1.47	97	0.95	63	--	4H	2W	
22.85	24.38	1.53	1.51	99	1.09	71	--	4H	2W	
24.38	25.91	1.53	1.51	99	0.37	24	--	3H	3W	
25.91	27.43	1.52	1.46	96	0.39	26	--	3H	4W	
27.43	28.96	1.53	1.5	98	0.95	62	--	4H	2W	
28.96	30.48	1.52	1.52	100	0.64	42	--	2H	4W	
30.48	32.00	1.52	1.47	97	0.88	58	--	4H	3W	
32.00	33.53	1.53	1.53	100	0.81	53	--	3H	3W	
33.53	35.05	1.52	1.52	100	0.21	14	--	3H	3W	
35.05	36.58	1.53	1.52	99	0.43	28	--	2H	4W	
36.58	38.10	1.52	1.47	97	1.26	83	--	4H	2W	
38.10	39.62	1.52	1.52	100	1.47	97	--	4H	2W	
39.62	41.15	1.53	1.52	99	1.08	71	--	4H	2W	
41.15	42.67	1.52	1.41	93	1.31	86	--	3H	2W	
42.67	44.20	1.53	1.51	99	0.81	53	--	2H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.72	1.52	1.48	97	0.82	54	--	3H	3W	
45.72	47.24	1.52	1.52	100	0.29	19	--	3H	3W	
47.24	48.77	1.53	1.52	99	0.72	47	--	4H	3W	
48.77	50.29	1.52	1.52	100	0.81	53	--	3H	2W	
50.29	51.82	1.53	1.52	99	1.27	83	--	4H	2W	
51.82	53.34	1.52	1.52	100	0.88	58	--	4H	2W	
53.34	54.86	1.52	1.52	100	0.92	61	--	4H	2W	
54.86	56.39	1.53	1.53	100	1.18	77	--	4H	2W	
56.39	57.91	1.52	1.52	100	1.21	80	--	4H	2W	
57.91	59.44	1.53	1.52	99	1.02	67	--	3H	2W	
59.44	60.96	1.52	1.52	100	1.29	85	--	4H	2W	
60.96	62.48	1.52	1.49	98	0.55	36	--	4H	2W	
62.48	64.01	1.53	1.52	99	1.05	69	--	4H	2W	
64.01	65.53	1.52	1.52	100	0.24	16	--	3H	2W	11cm of fault gouge
65.53	67.06	1.53	1.52	99	1.32	86	--	2H	2W	
67.06	68.58	1.52	1.52	100	0.89	59	--	4H	1W	
68.58	69.49	0.91	0.91	100	0.22	24	--	4H	1W	From 225ft block to 228 ft block… there is no 230ft block
69.49	71.63	2.14	2.11	99	1.62	76	--	4H	1W	measurements are recorded from the block 228ft-235ft as the 230ft block has not been created
71.63	73.15	1.52	1.52	100	1.01	66	--	4H	1W	
73.15	74.68	1.53	1.43	93	0.83	54	--	4H	1W	
74.68	76.20	1.52	1.52	100	0.81	53	--	4H	1W	
76.20	77.72	1.52	1.5	99	1.14	75	--	4H	1W	
77.72	79.25	1.53	1.52	99	0.78	51	--	4H	1W	
79.25	80.77	1.52	1.48	97	1.06	70	--	4H	1W	
80.77	82.30	1.53	1.52	99	0.96	63	--	3H	1W	
82.30	83.82	1.52	1.32	87	0.76	50	--	4H	1W	
83.82	85.34	1.52	1.52	100	1.23	81	--	4H	1W	
85.34	86.87	1.53	1.52	99	1.22	80	--	4H	1W	
86.87	88.39	1.52	1.5	99	1.01	66	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
88.39	89.92	1.53	1.52	99	1.47	96	--	4H	1W	
89.92	91.44	1.52	1.52	100	1.33	88	--	3H	1W	
91.44	92.96	1.52	1.49	98	0.69	45	--	2H	2W	
92.96	94.49	1.53	1.52	99	0.69	45	--	2H	2W	
94.49	96.01	1.52	1.44	95	1.01	66	--	3H	1W	
96.01	97.54	1.53	1.52	99	0.80	52	--	2H	1W	
97.54	99.06	1.52	1.52	100	0.89	59	--	2H	2W	
99.06	100.58	1.52	1.45	95	1.12	74	--	3H	1W	
100.58	102.11	1.53	1.44	94	0.64	42	--	1H	1W	
102.11	103.63	1.52	1.52	100	0.23	15	--	1H	1W	
103.63	105.16	1.53	1.39	91	0.11	7	--	1H	1W	
105.16	106.68	1.52	1.31	86	0.17	11	--	1H	1W	
106.68	108.20	1.52	1.52	100	0.75	49	--	3H	1W	
108.20	109.73	1.53	1.5	98	0.59	39	--	2H	1W	
109.73	111.25	1.52	1.52	100	0.83	55	--	3H	1W	
111.25	112.78	1.53	1.46	95	0.64	42	--	4H	1W	Joint infill includes Carbonate, Chlorite and Hematite
112.78	114.30	1.52	1.52	100	0.98	64	--	4H	1W	Joint infill includes Carbonate, Chlorite, Hematite and minor Sulphide
114.30	115.82	1.52	1.52	100	0.99	65	--	4H	1W	
115.82	117.35	1.53	1.52	99	1.23	80	--	4H	1W	Joint infill includes Chlorite Hematite and Carbonate
117.35	118.87	1.52	1.42	93	1.01	66	--	4H	1W	Joint infill includes Chlorite Hematite and Carbonate
118.87	120.40	1.53	1.52	99	1.05	69	--	4H	1W	Joint infill includes Carbonate and Chlorite
120.40	121.92	1.52	1.52	100	1.30	86	--	4H	1W	
121.92	123.44	1.52	1.52	100	1.40	92	--	4H	1W	
123.44	124.97	1.53	1.52	99	0.82	54	--	4H	1W	
124.97	126.49	1.52	1.48	97	0.84	55	--	3H	1W	
126.49	128.02	1.53	1.52	99	0.94	61	--	4H	1W	
128.02	129.54	1.52	1.47	97	0.64	42	--	4H	1W	
129.54	131.06	1.52	1.51	99	1.32	87	--	4H	1W	
131.06	132.59	1.53	1.53	100	1.07	70	--	4H	1W	Infill type includes Chlorite and Carbonate

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
132.59	134.11	1.52	1.52	100	1.36	89	--	4H	1W	
134.11	137.16	3.05	3.05	100	2.53	83	--	4H	1W	Spacing changed to 10ft intervals
137.16	138.68	1.52	1.52	100	1.37	90	--	4H	1W	Blocking is inconsistent andd changes back 5ft interval
138.68	141.73	3.05	3.01	99	1.77	58	--	1H	1W	
141.73	144.78	3.05	3.05	100	2.27	74	--	2H	1W	
144.78	146.30	1.52	1.41	93	1.21	80	--	2H	1W	
146.30	149.35	3.05	3.01	99	2.23	73	--	1H	1W	
149.35	152.40	3.05	3.03	99	2.37	78	--	4H	1W	
152.40	155.45	3.05	3.01	99	2.28	75	--	4H	1W	
155.45	156.97	1.52	1.52	100	1.07	70	--	5H	1W	
156.97	160.02	3.05	3.05	100	2.21	72	--	4H	1W	
160.02	163.07	3.05	3.05	100	2.07	68	--	4H	1W	
163.07	166.12	3.05	2.92	96	2.47	81	--	4H	1W	
166.12	167.64	1.52	1.52	100	1.52	100	--	3H	1W	
167.64	170.54	2.90	2.74	94	2.74	94	--	4H	1W	
170.54	173.74	3.20	3.06	96	1.25	39	--	4H	1W	
173.74	176.78	3.04	3.04	100	3.01	99	--	3H	1W	Infill type includes Hematite, Chlorite and Carbonate… NOTE: Last recoreded joint set is a mistake and is meant for the next interval
176.78	179.63	2.85	2.85	100	1.96	69	--	2H	1W	
179.63	182.88	3.25	3.05	94	1.99	61	--	4H	1W	
182.88	185.93	3.05	3.05	100	2.68	88	--	4H	1W	Infill type includes Chlorite, Sulphides and Carbonate
185.93	188.98	3.05	3.05	100	2.59	85	--	4H	1W	
188.98	192.02	3.04	3.04	100	1.99	65	--	3H	1W	
192.02	195.07	3.05	3.05	100	2.41	79	--	4H	1W	
195.07	198.12	3.05	3.04	100	2.76	90	--	4H	1W	Reduced
198.12	201.17	3.05	3.05	100	1.96	64	--	4H	1W	
201.17	204.22	3.05	3.05	100	2.56	84	--	3H	1W	
204.22	207.26	3.04	3.04	100	2.48	82	--	3H	1W	
207.26	210.31	3.05	3.05	100	2.16	71	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
210.31	213.36	3.05	2.63	86	1.57	51	--	2H	1W	
213.36	216.41	3.05	2.59	85	1.73	57	--	4H	1W	Possible core missing aprrox 1m is missing
216.41	219.46	3.05	2.91	95	2.32	76	--	4H	1W	
219.46	222.50	3.04	3.04	100	2.31	76	--	4H	1W	
222.50	225.55	3.05	3.04	100	1.54	50	--	4H	1W	
225.55	228.60	3.05	3.03	99	2.40	79	--	4H	1W	
228.60	231.65	3.05	3.05	100	2.49	82	--	4H	1W	
231.65	234.70	3.05	3.05	100	2.43	80	--	3H	1W	
234.70	237.74	3.04	3.04	100	1.81	60	--	4H	1W	
237.74	240.79	3.05	3.05	100	2.62	86	--	4H	1W	
240.79	243.84	3.05	3.05	100	2.44	80	--	4H	1W	
243.84	246.89	3.05	3.05	100	2.31	76	--	4H	1W	
246.89	249.94	3.05	3.05	100	2.44	80	--	4H	1W	
249.94	252.98	3.04	3.04	100	2.79	92	--	4H	1W	
252.98	256.03	3.05	3.05	100	2.93	96	--	4H	1W	
256.03	259.08	3.05	3.05	100	2.74	90	--	4H	1W	
259.08	262.13	3.05	3.05	100	2.49	82	--	4H	1W	
262.13	263.65	1.52	1.52	100	1.26	83	--	4H	1W	
263.65	266.70	3.05	2.3	75	0.60	20	--	1H	1W	
266.70	269.75	3.05	3.05	100	2.14	70	--	2H	1W	
269.75	271.27	1.52	1.52	100	1.15	76	--	3H	1W	
271.27	274.32	3.05	3.05	100	2.30	75	--	3H	1W	
274.32	277.37	3.05	3.05	100	2.06	68	--	4H	1W	
277.37	280.42	3.05	3.05	100	2.51	82	--	4H	1W	
280.42	283.46	3.04	3.04	100	2.41	79	--	4H	1W	
283.46	286.51	3.05	3.05	100	2.79	91	--	4H	1W	
286.51	289.56	3.05	3.05	100	2.20	72	--	4H	1W	
289.56	292.61	3.05	3.05	100	2.02	66	--	4H	1W	
292.61	295.66	3.05	3	98	1.69	55	--	3H	1W	
295.66	298.70	3.04	3.04	100	1.98	65	--	4H	1W	
298.70	301.75	3.05	3.05	100	1.68	55	--	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
301.75	303.28	1.53	1.53	100	0.64	42	--	4H	1W	
303.28	306.32	3.04	3.04	100	1.34	44	--	4H	1W	
306.32	307.85	1.53	1.48	97	0.61	40	--	3H	1W	
307.85	310.90	3.05	3.05	100	1.14	37	--	4H	1W	
310.90	313.94	3.04	3.04	100	1.68	55	--	4H	1W	
313.94	316.99	3.05	3.05	100	2.35	77	--	4H	1W	
316.99	320.04	3.05	3.05	100	1.84	60	--	2H	1W	
320.04	323.09	3.05	3.05	100	1.88	62	--	4H	1W	
323.09	326.14	3.05	3.05	100	2.15	70	--	3H	1W	
326.14	329.18	3.04	3.04	100	2.59	85	--	4H	1W	
329.18	332.23	3.05	3.05	100	2.33	76	--	4H	1W	
332.23	335.28	3.05	3.05	100	2.30	75	--	1H	1W	
335.28	338.33	3.05	3.05	100	1.24	41	--	2H	1W	
338.33	341.38	3.05	3.05	100	2.25	74	--	4H	1W	
341.38	344.42	3.04	3	99	2.24	74	--	4H	1W	End of hole.

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
4	36.91	VOL	
5	43.84	VOL	
6	32.87	VOL	
7	39.56	VOL	
8	41.41	VOL	
9	32.5	VOL	
10	29.5	VOL	
11	37.62	VOL	
12	0.643	VOL	
13	5.717	VOL	
14	27.86	VOL	
15	32.45	VOL	
16	32.15	VOL	
17	39.01	VOL	
18	41.37	VOL	
19	37.57	VOL	
20	39.57	VOL	
21	40.13	VOL	
22	34.36	VOL	
23	38.09	VOL	
24	8.522	VOL	
25	36.35	VOL	
26	38.99	VOL	
27	39.81	VOL	
28	50.45	VOL	
29	36.73	VOL	
30	34.62	VOL	
31	34.35	VOL	
32	37.94	VOL	
33	33.1	VOL	
34	30.07	VOL	
35	0.385	VOL	
36	37.24	VOL	
37	40.04	VOL	
38	38.22	VOL	
39	38.99	VOL	
40	40.12	VOL	
41	45.22	VOL	
42	3.49	VOL	
43	21.98	VOL	
44	0.523	VOL	
45	0.373	VOL	
46	0.841	BXA	
47	0.401	BXA	
48	0.552	VOL	
49	0.387	VOL	
50	36.57	VOL	
51	41.9	VOL	
52	3.255	VOL	
53	37.2	VOL	
54	41.78	VOL	
55	44.24	VOL	
56	27.78	VOL	
57	52.38	VOL	
58	42.89	VOL	
59	43.96	VOL	
60	54.37	VOL	
61	63.52	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
62	48.26	VOL	
63	54.12	VOL	
64	0.702	VOL	
65	0.557	VOL	
66	0.742	VOL	
67	52.5	VOL	
68	56.67	VOL	
69	52.18	VOL	
70	50.8	VOL	
71	58.9	VOL	
72	29.09	VOL	
73	39.68	VOL	
74	58.09	VOL	
75	70.38	VOL	
76	80.28	VOL	
77	56.58	VOL	
78	73.03	VOL	
79	80.08	VOL	
80	77.8	VOL	
81	73.19	VOL	
82	82.24	VOL	
83	66.55	VOL	
84	78.72	VOL	
85	74.5	VOL	
86	72.46	VOL	
87	56.44	VOL	
88	150.6	VOL	
89	59.66	VOL	
90	2.544	VOL	
91	51.79	VOL	
92	70.49	VOL	
93	72.38	VOL	
94	0.658	GRD	
95	0.519	GRD	
96	1.394	GRD	
97	71.31	GRD	
98	0.405	VEN	
99	0.83	GRD	
100	65.38	GRD	
101	0.455	GRD	
102	46.1	GRD	
103	55.6	GRD	
104	44.27	GRD	
105	37.53	GRD	
106	21.62	GRD	
107	40.29	GRD	
108	39.13	GRD	
109	1.11	GRD	
110	0.737	GRD	
111	43.7	GRD	
112	32.61	GRD	
113	51.41	GRD	
114	52.41	GRD	
115	51.91	GRD	
116	57.45	GRD	
117	64.63	GRD	
118	62.5	GRD	
119	54.02	GRD	
120	61.44	GRD	
121	61.55	GRD	
122	56.35	GRD	
123	1.065	BXA	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
124	0.648	BXA	
125	1.777	BXA	
126	0.29	BXA	
127	1.529	BXA	
128	0.798	BXA	
129	1.829	BXA	
130	8.251	BXA	
131	4.08	BXA	
132	53.52	GRD	
133	46.64	GRD	
134	57.37	GRD	
135	52.14	GRD	
136	34.24	GRD	
137	37.09	GRD	
138	49.5	GRD	
139	51.92	GRD	
140	4.873	GRD	
141	0.497	GRD	
142	26.09	GRD	
143	1.078	GRD	
144	59.2	GRD	
145	40.17	GRD	
146	0.617	GRD	
147	0.634	GRD	
148	0.563	GRD	
149	0.61	GRD	
150	59.73	GRD	
151	63.5	GRD	
152	59.21	GRD	
153	61.51	GRD	
154	62.43	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
155	47.21	GRD	
156	64.08	GRD	
157	55.75	GRD	
158	58.2	GRD	
159	44.9	GRD	
160	52.47	GRD	
161	49.55	GRD	
162	46.12	GRD	
163	1.073	GRD	
164	57.87	GRD	
165	55.44	GRD	
166	60.19	GRD	
167	55.15	GRD	
168	0.703	GRD	
169	31.83	GRD	
170	64.04	GRD	
171	52.64	GRD	
172	61.65	GRD	
173	59.67	GRD	
174	50.43	GRD	
175	49.56	GRD	
176	53.8	GRD	
177	57.94	GRD	
178	73.96	GRD	
179	46.23	GRD	
180	47.16	GRD	
181	50.03	GRD	
182	47.07	GRD	
183	52.97	GRD	
184	57.19	GRD	
185	0.907	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
186	46.1	GRD	
187	51.73	GRD	
188	48.96	GRD	
189	28.92	GRD	
190	0.316	GRD	
191	0.333	GRD	
192	0.566	GRD	
193	0.422	GRD	
194	55.15	GRD	
195	1.921	GRD	
196	39.14	GRD	
197	53.17	GRD	
198	52.89	GRD	
199	59.84	GRD	
200	56.73	GRD	
201	0.985	GRD	
202	1.094	GRD	
203	58.92	GRD	
204	39.23	GRD	
205	0.623	GRD	
206	0.899	GRD	
207	26.06	GRD	
208	45.08	GRD	
209	0.403	GRD	
210	0.45	GRD	
211	0.576	GRD	
212	0.94	GRD	
213	0.723	GRD	
214	0.541	GRD	
215	1.996	GRD	
216	0.412	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
217	0.469	GRD	
218	0.688	GRD	
219	0.637	GRD	
220	1.964	GRD	
221	50.08	GRD	
222	50.72	GRD	
222	50.72	GRD	
223	55.98	GRD	
224	54.1	GRD	
225	45.14	GRD	
226	52.9	GRD	
227	58.37	GRD	
228	58.95	GRD	
229	1.109	GRD	
230	23.81	GRD	
231	58.65	GRD	
232	53.32	GRD	
233	63.15	GRD	
234	67.5	GRD	
235	63.13	GRD	
236	62.02	GRD	
237	2.007	GRD	
238	54.53	GRD	
239	2.084	GRD	
240	31.95	GRD	
241	7.639	GRD	
242	69.71	GRD	
243	64.27	GRD	
244	54.82	GRD	
245	62.4	GRD	
246	51.45	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
247	57.86	GRD	
248	67.85	GRD	
249	42.7	GRD	
250	23.78	GRD	
251	64.5	GRD	
252	64.5	GRD	
253	61.05	GRD	
254	40.36	GRD	
255	46.35	GRD	
256	48.09	GRD	
257	29.54	GRD	
258	59.76	GRD	
259	56.22	GRD	
260	48.34	GRD	
261	0.732	GRD	
262	0.321	QFP	
263	0.38	QFP	
264	0.697	VEN	
264	0.697	QFP	
265	42.42	GRD	
266	50.99	GRD	
267	44.48	GRD	
268	64.62	GRD	
269	27.64	GRD	
270	1.189	GRD	
271	59.9	GRD	
272	0.441	GRD	
273	0.649	GRD	
274	43.21	GRD	
275	24.53	GRD	
276	45.54	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
277	52.9	GRD	
278	61.03	GRD	
279	54.06	GRD	
280	61.18	GRD	
281	45.8	GRD	
282	53.85	GRD	
283	63.84	GRD	
284	52.73	GRD	
285	48.27	GRD	
286	45.67	GRD	
287	46.86	GRD	
288	43.41	GRD	
289	43.16	GRD	
290	41.9	GRD	
291	42.66	GRD	
292	35.27	GRD	
293	50.77	GRD	
294	46.5	GRD	
295	30.05	GRD	
296	52.3	GRD	
297	45.93	GRD	
298	43.04	GRD	
299	47.89	GRD	
300	13.58	GRD	
301	48.66	GRD	
302	45.97	GRD	
303	42.61	GRD	
304	42.81	GRD	
305	42.44	GRD	
306	18.85	GRD	
307	51.56	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
308	21.94	GRD	
309	21.5	GRD	
310	47.99	GRD	
311	59.41	GRD	
312	55.08	GRD	
313	30.57	GRD	
314	62.5	GRD	
315	57.17	GRD	
316	49.36	GRD	
317	56.84	GRD	
318	19.61	GRD	
319	12.75	GRD	
320	47.17	GRD	
321	41	GRD	
322	4.453	GRD	
322	4.453	GRD	
323	0.531	GRD	
324	0.538	GRD	
325	0.452	GRD	
326	0.38	GRD	
327	0.228	QFP	
328	0.183	QFP	
329	0.198	QFP	
330	0.212	QFP	
331	0.314	QFP	
332	0.24	QFP	
333	0.536	QFP	
334	0.269	QFP	
335	0.241	QFP	
336	0.206	QFP	
337	0.199	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
338	0.259	QFP	
339	1.658	GRD	
340	0.469	GRD	
341	18.16	GRD	
342	27.17	GRD	
343	22.16	GRD	
344	40.82	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599301	☐	20-004	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599330	☐	20-005	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599327	☐	20-005	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594159	☐	20-002	High Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599303	☐	20-004	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598994	☐	20-004	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598962	☐	20-003	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598955	☐	20-003	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598941	☐	20-003	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598931	☐	20-001	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598917	☐	20-001	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598909	☐	20-001	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594179	☐	20-002	High Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599318	☐	20-005	Low Grade	Klaza20 20-A	☐	☐	☐
34.45	35.90	1.45	VOL	1.35	93	W598901	☐	20-001	Low Grade		☐	☐	☐
39.35	40.05	0.70	VOL	0.69	99	W598902	☐	20-001	Low Grade		☐	☐	☐
40.05	40.80	0.75	VOL	0.75	100	W598903	☐	20-001	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
40.80	41.39	0.59	VOL	0.57	97	W598904	☐	20-001	Low Grade		☐	☐	☐
41.39	42.50	1.11	VOL, VOL	1.06	95	W598905	☐	20-001	Low Grade		☐	☐	☐
42.50	44.00	1.50	VOL	1.41	94	W598906	☐	20-001	Low Grade		☐	☐	☐
44.00	45.24	1.24	VOL	1.24	100	W594151	☐	20-002	High Grade		☐	☐	☐
45.24	45.85	0.61	VOL	0.57	93	W594152	☐	20-002	High Grade		☐	☐	☐
45.85	46.70	0.85	VOL	0.81	95	W594153	☐	20-002	High Grade		☐	☐	☐
46.70	47.52	0.82	BXA	0.52	63	W594154	☐	20-002	High Grade		☐	☐	☐
47.52	48.50	0.98	VOL	0.96	98	W594155	☐	20-002	High Grade		☐	☐	☐
48.50	50.00	1.50	VOL	1.50	100	W598907	☐	20-001	Low Grade		☐	☐	☐
50.00	51.50	1.50	VOL	1.39	93	W598908	☐	20-001	Low Grade		☐	☐	☐
62.50	63.61	1.11	VOL	1.10	99	W598910	☐	20-001	Low Grade		☐	☐	☐
63.61	64.52	0.91	VOL, VOL	0.91	100	W598911	☐	20-001	Low Grade		☐	☐	☐
64.52	65.38	0.86	VOL	0.85	99	W594156	☐	20-002	High Grade		☐	☐	☐
65.38	65.94	0.56	VOL	0.56	100	W594157	☐	20-002	High Grade		☐	☐	☐
65.94	66.54	0.60	FLR, VOL	0.60	100	W594158	☐	20-002	High Grade		☐	☐	☐
66.54	68.00	1.46	VOL, VOL	1.46	100	W598912	☐	20-001	Low Grade		☐	☐	☐
88.50	90.00	1.50	VOL	1.50	100	W598913	☐	20-001	Low Grade		☐	☐	☐
90.00	91.26	1.26	VOL	1.26	100	W598914	☐	20-001	Low Grade		☐	☐	☐
91.26	92.15	0.89	VOL, VEN	0.86	97	W598915	☐	20-001	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
92.15	93.50	1.35	VOL	1.32	98	W594160	☐	20-002	High Grade		☐	☐	☐
93.50	94.00	0.50	VOL	0.50	100	W594161	☐	20-002	High Grade		☐	☐	☐
94.00	95.50	1.50	GRD	1.40	93	W594162	☐	20-002	High Grade		☐	☐	☐
95.50	96.60	1.10	GRD	1.10	100	W598916	☐	20-001	Low Grade		☐	☐	☐
96.60	97.50	0.90	GRD	0.90	100	W598918	☐	20-001	Low Grade		☐	☐	☐
97.50	99.00	1.50	GRD	1.47	98	W598919	☐	20-001	Low Grade		☐	☐	☐
99.00	100.00	1.00	GRD	0.97	97	W598920	☐	20-001	Low Grade		☐	☐	☐
109.75	111.50	1.75	GRD	0.75	43	W598921	☐	20-001	Low Grade		☐	☐	☐
109.75	111.50	1.75	GRD	0.75	43	W598922	☐	20-001	Low Grade		☐	☐	☑
122.20	122.85	0.65	BXA, GRD	0.65	100	W594163	☐	20-002	High Grade		☐	☐	☐
122.20	122.85	0.65	BXA, GRD	0.65	100	W594164	☐	20-002	High Grade		☐	☑	☐
122.85	124.00	1.15	BXA	1.15	100	W598923	☐	20-001	Low Grade		☐	☐	☐
124.00	124.80	0.80	BXA	0.80	100	W598924	☐	20-001	Low Grade		☐	☐	☐
124.80	125.75	0.95	BXA	0.95	100	W598925	☐	20-001	Low Grade		☐	☐	☐
125.75	126.30	0.55	BXA	0.55	100	W594165	☐	20-002	High Grade		☐	☐	☐
126.30	127.50	1.20	BXA	1.20	100	W598926	☐	20-001	Low Grade		☐	☐	☐
127.50	129.00	1.50	BXA	1.45	97	W598927	☐	20-001	Low Grade		☐	☐	☐
129.00	130.50	1.50	BXA	1.50	100	W598928	☐	20-001	Low Grade		☐	☐	☐
130.50	132.00	1.50	BXA	1.50	100	W598929	☐	20-001	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
139.98	141.00	1.02	GRD, GRD	1.02	100	W598930	☐	20-001	Low Grade		☐	☐	☐
141.00	141.50	0.50	GRD	0.50	100	W594166	☐	20-002	High Grade		☐	☐	☐
141.50	143.00	1.50	GRD	1.50	100	W598932	☐	20-001	Low Grade		☐	☐	☐
143.00	144.50	1.50	GRD	1.50	100	W598933	☐	20-001	Low Grade		☐	☐	☐
143.00	144.50	1.50	GRD	1.50	100	W598934	☐	20-001	Low Grade		☐	☑	☐
144.50	146.00	1.50	GRD	1.50	100	W598935	☐	20-001	Low Grade		☐	☐	☐
146.00	147.15	1.15	GRD	1.13	98	W598936	☐	20-001	Low Grade		☐	☐	☐
147.15	147.80	0.65	GRD	0.54	83	W594167	☐	20-002	High Grade		☐	☐	☐
147.80	148.50	0.70	GRD	0.70	100	W594168	☐	20-002	High Grade		☐	☐	☐
148.50	149.60	1.10	GRD	1.10	100	W598937	☐	20-003	Low Grade		☐	☐	☐
161.50	162.75	1.25	GRD	1.25	100	W598938	☐	20-003	Low Grade		☐	☐	☐
162.75	163.35	0.60	GRD, GRD	0.60	100	W594169	☐	20-002	High Grade		☐	☐	☐
163.35	164.50	1.15	GRD, GRD	1.15	100	W598939	☐	20-003	Low Grade		☐	☐	☐
164.50	165.50	1.00	GRD	1.00	100	W598940	☐	20-003	Low Grade		☐	☐	☐
165.50	166.50	1.00	GRD	0.71	71	W598942	☐	20-003	Low Grade		☐	☐	☐
166.50	167.25	0.75	GRD	0.75	100	W598943	☐	20-003	Low Grade		☐	☐	☐
167.25	168.20	0.95	GRD, GRD	0.95	100	W598944	☐	20-003	Low Grade		☐	☐	☐
184.50	185.48	0.98	GRD	0.92	94	W598945	☐	20-003	Low Grade		☐	☐	☐
185.48	186.90	1.42	GRD	1.42	100	W598946	☐	20-003	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
186.90	188.40	1.50	GRD	1.47	98	W598947	☐	20-003	Low Grade		☐	☐	☐
188.40	189.50	1.10	GRD	1.10	100	W598948	☐	20-003	Low Grade		☐	☐	☐
188.40	189.50	1.10	GRD	1.10	100	W598949	☐	20-003	Low Grade		☐	☑	☐
189.50	190.07	0.57	GRD, GRD	0.57	100	W598950	☐	20-003	Low Grade		☐	☐	☐
190.07	191.10	1.03	GRD	1.03	100	W598951	☐	20-003	Low Grade		☐	☐	☐
191.10	191.91	0.81	GRD, GRD	0.81	100	W598952	☐	20-003	Low Grade		☐	☐	☐
191.91	192.56	0.65	GRD, GRD	0.65	100	W594170	☐	20-002	High Grade		☐	☐	☐
192.56	193.50	0.94	GRD, GRD	0.84	89	W598953	☐	20-003	Low Grade		☐	☐	☐
193.50	195.00	1.50	GRD	1.46	97	W598954	☐	20-003	Low Grade		☐	☐	☐
195.00	196.50	1.50	GRD	1.50	100	W598956	☐	20-003	Low Grade		☐	☐	☐
196.50	197.50	1.00	GRD	1.00	100	W598957	☐	20-003	Low Grade		☐	☐	☐
197.50	199.00	1.50	GRD	1.44	96	W598958	☐	20-003	Low Grade		☐	☐	☐
199.00	200.40	1.40	GRD	1.29	92	W598959	☐	20-003	Low Grade		☐	☐	☐
200.40	201.10	0.70	GRD	0.70	100	W594171	☐	20-002	High Grade		☐	☐	☐
201.10	202.10	1.00	GRD	1.00	100	W598960	☐	20-003	Low Grade		☐	☐	☐
202.10	203.60	1.50	GRD	1.50	100	W598961	☐	20-003	Low Grade		☐	☐	☐
203.60	204.30	0.70	GRD	0.70	100	W598963	☐	20-003	Low Grade		☐	☐	☐
204.30	205.50	1.20	GRD	1.20	100	W598964	☐	20-003	Low Grade		☐	☐	☐
205.50	207.00	1.50	GRD	1.50	100	W598965	☐	20-003	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
207.00	208.50	1.50	GRD	1.50	100	W598966	☐	20-003	Low Grade		☐	☐	☐
208.50	209.45	0.95	GRD	0.95	100	W594172	☐	20-002	High Grade		☐	☐	☐
209.45	210.40	0.95	GRD	0.94	99	W594173	☐	20-002	High Grade		☐	☐	☐
210.40	211.90	1.50	GRD	1.14	76	W598967	☐	20-003	Low Grade		☐	☐	☐
211.90	213.40	1.50	GRD	1.37	91	W598968	☐	20-003	Low Grade		☐	☐	☐
211.90	213.40	1.50	GRD	1.37	91	W598969	☐	20-003	Low Grade		☐	☐	☑
213.40	214.50	1.10	GRD	1.01	92	W598970	☐	20-003	Low Grade		☐	☐	☐
214.50	216.00	1.50	GRD	1.50	100	W598971	☐	20-003	Low Grade		☐	☐	☐
216.00	217.00	1.00	GRD	0.73	73	W594174	☐	20-002	High Grade		☐	☐	☐
217.00	218.50	1.50	GRD	1.41	94	W598972	☐	20-003	Low Grade		☐	☐	☐
218.50	220.00	1.50	GRD	1.43	95	W598973	☐	20-004	Low Grade		☐	☐	☐
220.00	221.50	1.50	GRD	1.50	100	W598974	☐	20-004	Low Grade		☐	☐	☐
228.60	229.33	0.73	GRD	0.73	100	W598975	☐	20-004	Low Grade		☐	☐	☐
237.74	239.20	1.46	GRD	1.46	100	W598976	☐	20-004	Low Grade		☐	☐	☐
250.50	252.00	1.50	GRD	1.50	100	W598977	☐	20-004	Low Grade		☐	☐	☐
252.00	253.50	1.50	GRD	1.50	100	W598978	☐	20-004	Low Grade		☐	☐	☐
253.50	254.90	1.40	GRD	1.40	100	W598979	☐	20-004	Low Grade		☐	☐	☐
260.55	261.10	0.55	GRD	0.55	100	W594175	☐	20-002	High Grade		☐	☐	☐
260.55	261.10	0.55	GRD	0.55	100	W594176	☐	20-002	High Grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
261.10	262.60	1.50	VEN, QFP	1.50	100	W598980	☐	20-004	Low Grade		☐	☐	☐
262.60	264.00	1.40	QFP	1.35	96	W598981	☐	20-004	Low Grade		☐	☐	☐
264.00	264.50	0.50	QFP, VEN	0.50	100	W594177	☐	20-002	High Grade		☐	☐	☐
264.50	265.70	1.20	GRD	1.15	96	W598982	☐	20-004	Low Grade		☐	☐	☐
265.70	267.00	1.30	GRD	1.30	100	W598983	☐	20-004	Low Grade		☐	☐	☐
267.00	268.50	1.50	GRD	1.50	100	W598984	☐	20-004	Low Grade		☐	☐	☐
268.50	269.45	0.95	GRD	0.95	100	W598985	☐	20-004	Low Grade		☐	☐	☐
269.45	270.20	0.75	GRD	0.75	100	W598986	☐	20-004	Low Grade		☐	☐	☐
269.45	270.20	0.75	GRD	0.75	100	W598987	☐	20-004	Low Grade		☐	☑	☐
270.20	271.70	1.50	GRD	1.50	100	W598988	☐	20-004	Low Grade		☐	☐	☐
271.70	273.20	1.50	GRD	1.50	100	W598989	☐	20-004	Low Grade		☐	☐	☐
273.20	274.55	1.35	GRD	1.35	100	W598990	☐	20-004	Low Grade		☐	☐	☐
274.55	275.00	0.45	VEN, GRD	0.45	100	W594178	☐	20-002	High Grade		☐	☐	☐
275.00	276.50	1.50	GRD	1.50	100	W598991	☐	20-004	Low Grade		☐	☐	☐
276.50	278.00	1.50	GRD	1.39	93	W598992	☐	20-004	Low Grade		☐	☐	☐
278.00	279.50	1.50	GRD	1.50	100	W598993	☐	20-004	Low Grade		☐	☐	☐
279.50	281.00	1.50	GRD	1.50	100	W598995	☐	20-004	Low Grade		☐	☐	☐
281.00	282.40	1.40	GRD	1.40	100	W598996	☐	20-004	Low Grade		☐	☐	☐
282.40	283.00	0.60	GRD	0.60	100	W598997	☐	20-004	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
283.00	284.00	1.00	GRD	1.00	100	W598998	☐	20-004	Low Grade		☐	☐	☐
298.70	299.60	0.90	GRD	0.90	100	W598999	☐	20-004	Low Grade		☐	☐	☐
299.60	300.50	0.90	GRD	0.85	94	W599000	☐	20-004	Low Grade		☐	☐	☐
300.50	302.00	1.50	GRD	1.50	100	W599302	☐	20-004	Low Grade		☐	☐	☐
302.00	303.50	1.50	GRD	1.50	100	W599304	☐	20-004	Low Grade		☐	☐	☐
303.50	305.00	1.50	GRD	1.50	100	W599305	☐	20-004	Low Grade		☐	☐	☐
305.00	306.50	1.50	GRD	1.50	100	W599306	☐	20-004	Low Grade		☐	☐	☐
306.50	308.00	1.50	GRD	1.50	100	W599307	☐	20-004	Low Grade		☐	☐	☐
306.50	308.00	1.50	GRD	1.50	100	W599308	☐	20-004	Low Grade		☐	☐	☑
308.00	309.50	1.50	GRD	1.50	100	W599309	☐	20-005	Low Grade		☐	☐	☐
309.50	311.00	1.50	GRD	1.48	99	W599310	☐	20-005	Low Grade		☐	☐	☐
311.00	312.50	1.50	GRD	1.50	100	W599311	☐	20-005	Low Grade		☐	☐	☐
312.50	314.00	1.50	GRD	1.50	100	W599312	☐	20-005	Low Grade		☐	☐	☐
314.00	314.80	0.80	GRD	0.60	75	W599313	☐	20-005	Low Grade		☐	☐	☐
314.80	316.30	1.50	GRD	1.50	100	W599314	☐	20-005	Low Grade		☐	☐	☐
316.30	317.40	1.10	GRD	1.10	100	W599315	☐	20-005	Low Grade		☐	☐	☐
317.40	318.40	1.00	GRD	1.00	100	W599316	☐	20-005	Low Grade		☐	☐	☐
318.40	319.90	1.50	GRD	1.50	100	W599317	☐	20-005	Low Grade		☐	☐	☐
319.90	321.40	1.50	GRD	1.48	99	W599319	☐	20-005	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
321.40	322.90	1.50	GRD	1.50	100	W599320	☐	20-005	Low Grade		☐	☐	☐
322.90	324.40	1.50	GRD	1.50	100	W599321	☐	20-005	Low Grade		☐	☐	☐
322.90	324.40	1.50	GRD	1.50	100	W599322	☐	20-005	Low Grade		☐	☑	☐
324.40	324.95	0.55	GRD	0.55	100	W594180	☐	20-002	High Grade		☐	☐	☐
324.95	325.60	0.65	GRD	0.65	100	W599323	☐	20-005	Low Grade		☐	☐	☐
325.60	326.70	1.10	GRD	1.10	100	W599324	☐	20-005	Low Grade		☐	☐	☐
326.70	328.00	1.30	GRD, QFP	1.30	100	W599325	☐	20-005	Low Grade		☐	☐	☐
328.00	329.50	1.50	QFP	1.43	95	W599326	☐	20-005	Low Grade		☐	☐	☐
329.50	331.00	1.50	QFP	1.48	99	W599328	☐	20-005	Low Grade		☐	☐	☐
331.00	332.50	1.50	QFP	1.50	100	W599329	☐	20-005	Low Grade		☐	☐	☐
332.50	334.00	1.50	QFP	1.50	100	W599331	☐	20-005	Low Grade		☐	☐	☐
334.00	335.50	1.50	QFP	1.50	100	W599332	☐	20-005	Low Grade		☐	☐	☐
335.50	337.00	1.50	QFP	1.50	100	W599333	☐	20-005	Low Grade		☐	☐	☐
337.00	338.35	1.35	QFP	1.35	100	W599334	☐	20-005	Low Grade		☐	☐	☐
338.35	339.00	0.65	QFP, GRD	0.65	100	W599335	☐	20-005	Low Grade		☐	☐	☐
339.00	340.00	1.00	GRD	1.00	100	W599336	☐	20-005	Low Grade		☐	☐	☐
340.00	340.70	0.70	GRD	0.69	99	W594181	☐	20-002	High Grade		☐	☐	☐
340.70	342.20	1.50	GRD	1.50	100	W599337	☐	20-005	Low Grade		☐	☐	☐
342.20	343.30	1.10	GRD	1.10	100	W599338	☐	20-005	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
343.30	344.42	1.12	GRD	1.10	98	W599339	☐	20-005	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-002	W594159	0.00	0.00	3.08	830	☐	☐	☐	☑ Klaza2020-B	Klaza 2020 b
20-002	W594179	0.00	0.00	0.65	920	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-001	W598909	0.00	0.00	2.77	290	☐	☐	☐	☑ Klaza2020-B	Klaza 2020 b
20-001	W598917	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-001	W598931	0.00	0.00	0.59	260	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-003	W598941	0.00	0.00	0.63	810	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-003	W598955	0.00	0.00	3.15	1850	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-003	W598962	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-004	W598994	0.00	0.00	0.61	280	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-004	W599301	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-004	W599303	0.00	0.00	2.91	950	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-005	W599318	0.00	0.00	0.63	390	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-005	W599327	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-005	W599330	0.00	0.00	2.92	740	☐	☐	☐	☑ Klaza2020-B	Klaza B

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-001	W598901	34.45	35.90	0.05	1900	☐	☐	☐	☐	
20-001	W598902	39.35	40.05	0.00	1820	☐	☐	☐	☐	
20-001	W598903	40.05	40.80	0.04	1760	☐	☐	☐	☐	
20-001	W598904	40.80	41.39	0.00	1990	☐	☐	☐	☐	
20-001	W598905	41.39	42.50	0.01	1810	☐	☐	☐	☐	
20-001	W598906	42.50	44.00	0.04	1420	☐	☐	☐	☐	
20-002	W594151	44.00	45.24	0.02	1010	☐	☐	☐	☐	
20-002	W594152	45.24	45.85	0.24	340	☐	☐	☐	☐	
20-002	W594153	45.85	46.70	0.61	120	☐	☐	☐	☐	
20-002	W594154	46.70	47.52	0.36	80	☐	☐	☐	☐	
20-002	W594155	47.52	48.50	0.01	1210	☐	☐	☐	☐	
20-001	W598907	48.50	50.00	0.04	750	☐	☐	☐	☐	
20-001	W598908	50.00	51.50	0.00	1770	☐	☐	☐	☐	
20-001	W598910	62.50	63.61	0.01	1930	☐	☐	☐	☐	
20-001	W598911	63.61	64.52	0.12	1560	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-002	W594156	64.52	65.38	0.02	440	☐	☐	☐	☐	
20-002	W594157	65.38	65.94	1.05	320	☐	☐	☐	☐	
20-002	W594158	65.94	66.54	0.01	1040	☐	☐	☐	☐	
20-001	W598912	66.54	68.00	0.01	1910	☐	☐	☐	☐	
20-001	W598913	88.50	90.00	0.01	1310	☐	☐	☐	☐	
20-001	W598914	90.00	91.26	0.01	1040	☐	☐	☐	☐	
20-001	W598915	91.26	92.15	0.05	840	☐	☐	☐	☐	
20-002	W594160	92.15	93.50	0.00	1170	☐	☐	☐	☐	
20-002	W594161	93.50	94.00	0.23	490	☐	☐	☐	☐	
20-002	W594162	94.00	95.50	0.03	690	☐	☐	☐	☐	
20-001	W598916	95.50	96.60	0.01	910	☐	☐	☐	☐	
20-001	W598918	96.60	97.50	0.01	1060	☐	☐	☐	☐	
20-001	W598919	97.50	99.00	0.15	520	☐	☐	☐	☐	
20-001	W598920	99.00	100.00	0.01	1200	☐	☐	☐	☐	
20-001	W598921	109.75	111.50	0.11	1500	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-001	W598922	109.75	111.50	0.06	1490	☐	☑	☐	☐	
20-002	W594163	122.20	122.85	0.15	350	☐	☐	☐	☐	
20-002	W594164	122.20	122.85	0.32	490	☑	☐	☐	☐	quarter dup
20-001	W598923	122.85	124.00	0.01	1030	☐	☐	☐	☐	
20-001	W598924	124.00	124.80	0.01	960	☐	☐	☐	☐	
20-001	W598925	124.80	125.75	0.01	1030	☐	☐	☐	☐	
20-002	W594165	125.75	126.30	0.13	690	☐	☐	☐	☐	
20-001	W598926	126.30	127.50	0.01	1250	☐	☐	☐	☐	
20-001	W598927	127.50	129.00	0.01	1290	☐	☐	☐	☐	
20-001	W598928	129.00	130.50	0.00	1190	☐	☐	☐	☐	
20-001	W598929	130.50	132.00	0.00	1130	☐	☐	☐	☐	
20-001	W598930	139.98	141.00	0.05	1200	☐	☐	☐	☐	
20-002	W594166	141.00	141.50	0.15	710	☐	☐	☐	☐	
20-001	W598932	141.50	143.00	0.01	1100	☐	☐	☐	☐	
20-001	W598933	143.00	144.50	0.01	1220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-001	W598934	143.00	144.50	0.01	1160	☑	☐	☐	☐	quarter dup
20-001	W598935	144.50	146.00	0.01	940	☐	☐	☐	☐	
20-001	W598936	146.00	147.15	0.01	900	☐	☐	☐	☐	
20-002	W594167	147.15	147.80	0.48	270	☐	☐	☐	☐	
20-002	W594168	147.80	148.50	0.02	630	☐	☐	☐	☐	
20-003	W598937	148.50	149.60	0.01	950	☐	☐	☐	☐	
20-003	W598938	161.50	162.75	0.01	980	☐	☐	☐	☐	
20-002	W594169	162.75	163.35	1.26	360	☐	☐	☐	☐	
20-003	W598939	163.35	164.50	0.00	1270	☐	☐	☐	☐	
20-003	W598940	164.50	165.50	0.00	1190	☐	☐	☐	☐	
20-003	W598942	165.50	166.50	0.00	1190	☐	☐	☐	☐	Competent rock, but missing core
20-003	W598943	166.50	167.25	0.01	1230	☐	☐	☐	☐	
20-003	W598944	167.25	168.20	0.05	650	☐	☐	☐	☐	
20-003	W598945	184.50	185.48	0.04	1310	☐	☐	☐	☐	
20-003	W598946	185.48	186.90	0.01	1360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-003	W598947	186.90	188.40	0.00	1560	☐	☐	☐	☐	
20-003	W598948	188.40	189.50	0.00	1420	☐	☐	☐	☐	
20-003	W598949	188.40	189.50	0.00	1370	☑	☐	☐	☐	
20-003	W598950	189.50	190.07	0.02	1150	☐	☐	☐	☐	
20-003	W598951	190.07	191.10	0.26	310	☐	☐	☐	☐	
20-003	W598952	191.10	191.91	0.01	1290	☐	☐	☐	☐	
20-002	W594170	191.91	192.56	2.94	410	☐	☐	☐	☐	
20-003	W598953	192.56	193.50	0.01	1410	☐	☐	☐	☐	
20-003	W598954	193.50	195.00	0.39	1410	☐	☐	☐	☐	
20-003	W598956	195.00	196.50	0.57	1310	☐	☐	☐	☐	
20-003	W598957	196.50	197.50	0.00	1280	☐	☐	☐	☐	
20-003	W598958	197.50	199.00	0.00	1460	☐	☐	☐	☐	
20-003	W598959	199.00	200.40	0.00	1440	☐	☐	☐	☐	
20-002	W594171	200.40	201.10	0.06	950	☐	☐	☐	☐	
20-003	W598960	201.10	202.10	0.01	1460	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-003	W598961	202.10	203.60	0.00	1380	☐	☐	☐	☐	
20-003	W598963	203.60	204.30	0.02	1140	☐	☐	☐	☐	
20-003	W598964	204.30	205.50	0.00	1210	☐	☐	☐	☐	
20-003	W598965	205.50	207.00	0.01	1400	☐	☐	☐	☐	
20-003	W598966	207.00	208.50	0.01	1460	☐	☐	☐	☐	
20-002	W594172	208.50	209.45	0.43	300	☐	☐	☐	☐	
20-002	W594173	209.45	210.40	0.05	700	☐	☐	☐	☐	
20-003	W598967	210.40	211.90	0.06	890	☐	☐	☐	☐	Missing core in run
20-003	W598968	211.90	213.40	0.42	1310	☐	☐	☐	☐	Missing core in run
20-003	W598969	211.90	213.40	0.36	1280	☐	☑	☐	☐	Coarse Dup
20-003	W598970	213.40	214.50	0.03	1500	☐	☐	☐	☐	Missing core in run
20-003	W598971	214.50	216.00	0.08	1100	☐	☐	☐	☐	Missing core in run
20-002	W594174	216.00	217.00	0.45	480	☐	☐	☐	☐	Missing core in run
20-003	W598972	217.00	218.50	0.07	1180	☐	☐	☐	☐	
20-004	W598973	218.50	220.00	0.28	740	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-004	W598974	220.00	221.50	0.01	1310	☐	☐	☐	☐	
20-004	W598975	228.60	229.33	1.11	1240	☐	☐	☐	☐	
20-004	W598976	237.74	239.20	0.01	1320	☐	☐	☐	☐	
20-004	W598977	250.50	252.00	0.00	1330	☐	☐	☐	☐	
20-004	W598978	252.00	253.50	0.00	1290	☐	☐	☐	☐	
20-004	W598979	253.50	254.90	0.00	1390	☐	☐	☐	☐	
20-002	W594175	260.55	261.10	0.96	180	☐	☐	☐	☐	
20-002	W594176	260.55	261.10	1.02	270	☐	☑	☐	☐	Coarse Dup
20-004	W598980	261.10	262.60	0.00	870	☐	☐	☐	☐	
20-004	W598981	262.60	264.00	0.01	710	☐	☐	☐	☐	
20-002	W594177	264.00	264.50	0.48	650	☐	☐	☐	☐	
20-004	W598982	264.50	265.70	0.02	1460	☐	☐	☐	☐	
20-004	W598983	265.70	267.00	0.01	1260	☐	☐	☐	☐	
20-004	W598984	267.00	268.50	0.02	1220	☐	☐	☐	☐	
20-004	W598985	268.50	269.45	0.01	1180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-004	W598986	269.45	270.20	0.04	680	☐	☐	☐	☐	
20-004	W598987	269.45	270.20	0.05	590	☑	☐	☐	☐	1/4 dup
20-004	W598988	270.20	271.70	0.01	1470	☐	☐	☐	☐	
20-004	W598989	271.70	273.20	0.01	1140	☐	☐	☐	☐	
20-004	W598990	273.20	274.55	0.03	1380	☐	☐	☐	☐	
20-002	W594178	274.55	275.00	0.30	340	☐	☐	☐	☐	
20-004	W598991	275.00	276.50	0.00	1470	☐	☐	☐	☐	
20-004	W598992	276.50	278.00	0.00	1500	☐	☐	☐	☐	
20-004	W598993	278.00	279.50	0.00	1480	☐	☐	☐	☐	
20-004	W598995	279.50	281.00	0.00	1380	☐	☐	☐	☐	
20-004	W598996	281.00	282.40	0.00	1440	☐	☐	☐	☐	
20-004	W598997	282.40	283.00	0.01	1400	☐	☐	☐	☐	
20-004	W598998	283.00	284.00	0.00	1420	☐	☐	☐	☐	
20-004	W598999	298.70	299.60	0.00	1320	☐	☐	☐	☐	
20-004	W599000	299.60	300.50	0.01	1180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-004	W599302	300.50	302.00	0.02	2660	☐	☐	☐	☐	
20-004	W599304	302.00	303.50	0.00	1380	☐	☐	☐	☐	
20-004	W599305	303.50	305.00	0.01	1390	☐	☐	☐	☐	
20-004	W599306	305.00	306.50	0.07	1390	☐	☐	☐	☐	
20-004	W599307	306.50	308.00	0.01	1510	☐	☐	☐	☐	
20-004	W599308	306.50	308.00	0.01	1480	☐	☑	☐	☐	coarse reject
20-005	W599309	308.00	309.50	0.00	1450	☐	☐	☐	☐	
20-005	W599310	309.50	311.00	0.01	1270	☐	☐	☐	☐	
20-005	W599311	311.00	312.50	0.01	1210	☐	☐	☐	☐	
20-005	W599312	312.50	314.00	0.01	1300	☐	☐	☐	☐	
20-005	W599313	314.00	314.80	0.02	1310	☐	☐	☐	☐	
20-005	W599314	314.80	316.30	0.00	1420	☐	☐	☐	☐	
20-005	W599315	316.30	317.40	0.00	1360	☐	☐	☐	☐	
20-005	W599316	317.40	318.40	0.01	1200	☐	☐	☐	☐	
20-005	W599317	318.40	319.90	0.01	1220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-005	W599319	319.90	321.40	0.01	1290	☐	☐	☐	☐	
20-005	W599320	321.40	322.90	0.03	1240	☐	☐	☐	☐	
20-005	W599321	322.90	324.40	0.19	1450	☐	☐	☐	☐	
20-005	W599322	322.90	324.40	0.13	1740	☑	☐	☐	☐	1/4 dup
20-002	W594180	324.40	324.95	0.34	390	☐	☐	☐	☐	
20-005	W599323	324.95	325.60	0.06	1250	☐	☐	☐	☐	
20-005	W599324	325.60	326.70	1.08	920	☐	☐	☐	☐	
20-005	W599325	326.70	328.00	0.19	580	☐	☐	☐	☐	
20-005	W599326	328.00	329.50	0.23	420	☐	☐	☐	☐	
20-005	W599328	329.50	331.00	0.76	520	☐	☐	☐	☐	
20-005	W599329	331.00	332.50	0.08	1060	☐	☐	☐	☐	
20-005	W599331	332.50	334.00	0.01	1060	☐	☐	☐	☐	
20-005	W599332	334.00	335.50	0.02	1170	☐	☐	☐	☐	
20-005	W599333	335.50	337.00	0.32	980	☐	☐	☐	☐	
20-005	W599334	337.00	338.35	2.49	570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-005	W599335	338.35	339.00	0.13	1340	☐	☐	☐	☐	
20-005	W599336	339.00	340.00	0.03	1470	☐	☐	☐	☐	
20-002	W594181	340.00	340.70	0.33	340	☐	☐	☐	☐	
20-005	W599337	340.70	342.20	0.02	1380	☐	☐	☐	☐	
20-005	W599338	342.20	343.30	0.01	1430	☐	☐	☐	☐	
20-005	W599339	343.30	344.42	0.01	1350	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
6.76	6.90	FR	5	35	NUL	3	frature set with oxidized infill			
8.48	8.90	FR	5	35	NUL	3	fracture set with oxidized infill			
11.04	11.06	FR	5	85	NUL	2	fractures with ox infill			
11.30	12.00	VT	37	60	NUL	2	small >1cm carbonate veinlets			
22.25	22.80	VT	37	7	NUL	1	grey quartz-siderite-calcite veinlet 5mm wide with trace py			
								Py	0.5	EU
22.27	22.74	VT	37	5	NUL	1	>1cm dark grey carbonate veinlet, trace py			
								Py	0.1	---
26.10	26.16	FT	42	50	NUL	1	rubbly>gouge fault interval, shouldered by fractured and broken rock on both ends.			
34.30	34.31	VT	37	50	NUL	1	small 2mm carbonate veinlet. Ankerite and Siderite.			
								Ak	1	---
								Si	1	---
35.10	35.18	FT	42	90	NUL	1	rubble >> gouge faulted section, orientation unknown			
38.35	39.40	VT	37	60	NUL	2	2 small veinlets 3mm and 9mm, with grey carbonate and pyrite.			
								Py	2	---
41.39	41.40	DY	37	65	NUL	1	Very sharp upper contact of dyke. Possibly not a dyke, possibly just an extremely sharp change in alteration occuring at veinlet.			
42.64	62.65	VT	37	60	NUL	1	calcite-siderite veinlet			
43.15	43.17	VT	37	70	NUL	1	chalcedony-ankerite veinlet with trace disseminated py			
								Py	0.5	---
43.47	43.49	VT	37	65	NUL	1	chalcedony-ankerite vein. Trace py			
								Py	0.1	---
43.47	43.47	VT	37	65	NUL	1	Siderite-calcite-chalcedony veinlet			
45.66	45.72	VN	37	55	NUL	1	fracture in ankerite-chalcedony-sulphide vein			
								Sp	2	---
								Py	2	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	1	---
47.05	47.24	VN	37	55	NUL	1	mineralized crosscutting ankerite veinlet in mineralized vein material.			
								Py	2	XL
								As	3	BA
47.33	47.51	VN	37	55	NUL	1	vein walls of siderite-ankerite-chalcedony-calcite-sulphide vein			
								As	5	---
								Py	3	---
47.69	47.70	VT	37	62	NUL	1	calcite veinlet cutting though bleached volcanics			
48.42	48.43	VT	37	60	NUL	1	1cm ankerite-quartz vein cutting through siderite altered and oxidized volcanics			
49.68	49.78	VT	37	58	NUL	3	mm scale veinlets cutting through altered volcanics. Trace py in vein halos			
								Py	1	---
51.92	51.96	VT	37	60	NUL	2	qtz carbonate veinlets with trace py and strong alteration halos			
								Py	0.5	---
53.64	53.66	VT	37	55	NUL	1	qtz-siderite veinlet			
57.32	57.84	FT	42	30	NUL	1	rubble section, minerals altered to clay-calcite-chlorite, strained and crumbled			
58.28	58.29	FR	5	60	NUL	1	fracture marking upper boundary of alteration zone.			
62.89	62.95	FR	5	62	NUL	2	fractures with cal-chlor infill			
63.75	63.76	VT	37	60	NUL	1	qtz carbonate pyrite veinlet			
								As	1	---
								Py	1	---
65.05	65.06	FR	5	63	NUL	1	fractured brecca veinlet bleanched and carbonate infill			
65.43	65.58	FT	42	55	NUL	1	fault brecca > gouge om edce of vein. Clast mainly altered host rock with trace disseminated py			
								Py	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
65.59	65.85	VB	37	54	NUL	1	breccaited mineralized vein. Carbonates, chalcedony and rhodenite veinlets. Sphal, py, aspy, gal. mineralization banded 60 deg TCA and fractured with ankerite and Rhodenite infill. Py blebby in bands, aspy disseminated and bladed around fractures. Galena minor to trace			
								As	4	BL
								Ak	15	BA
								Sp	2	BA
								Py	6	BA
								Gn	1	BA
65.85	65.94	FT	42	70	NUL	1	brecca >> gouge. fractured and broken host rock, minor disseminated py present in bands			
								Py	1	DI
								Py	1	BA
70.72	70.84	VT	37	45	NUL	1	calcite chlorite infill, >1mm veinlet			
71.38	71.41	VT	37	60	NUL	1	qtz-cal-pyrite veinlet ~1mm, weak chlotite clay alteration halo			
								Py	3	---
77.12	77.14	VT	37	67	NUL	1	qtz-cal-ankerite-epidote veinlet ~1mm			
								Ep	3	---
78.82	78.84	VT	37	48	NUL	1	5mm quartz-cal-ank-chl veinlet with ~8cm chl-clay-ep alteration halo			
79.58	79.60	VT	37	75	NUL	1	2mm quartz-carbonate-chlotite veinlet			
81.99	82.30	FT	42	58	NUL	1	Sheared and altered interval with 3cm brecca>gouge interval and quartz-ankerite-calcite veinlet / brecca infill with clasts of host rock. Weak hemitite alteration on shear surfaces.			
								He	0.5	---
86.57	87.00	FR	5	12	NUL	2	Low angle fracture with calcite, chlorite and hematite infill.			
								He	0.5	---
								Ca	1	---
88.55	88.65	FR	5	30	NUL	1	cal-chl infill			
88.76	88.86	VT	37	75	NUL	1	Cal-Chl-Ank veinlet			
89.90	90.30	VT	37	70	NUL	3	Calcite-chlorite-ankerite-pyrite veinlets, 0.5-1cm across			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
90.77	90.80	FR	5	70	NUL	1	fracture with cal infill and moderately strong epidote alteration halo			
								Ep	5	IN
90.80	91.05	VT	37	60	NUL	4	cal-ank-chl-py veinlets 3mm wide			
								Py	0.5	---
								Ak	0.5	---
								Cl	0.5	---
								Ca	0.5	---
91.26	91.36	VN	37	65	NUL	1	Cal-Ank-Chl-Sid-Py Vein. Fractured, weakly brecciated and banded. Layered highly altered host rock and Vein minerals.			
								Py	5	BN
92.74	92.85	VT	37	20	NUL	1	Cal-Chl vein			
								Ca	0.5	---
								Ch	0.5	---
93.60	93.68	VB	37	80	NUL	1	recemented vein brecca mostly consisiting of unmineralized vein material, with trace sulphides in fragments and matrix.			
								Py	0.5	---
								Gn	0.5	---
93.68	93.75	VN	37	75	NUL	1	Brecciated and recemtned vein with Ank-Sid-Aspy-Py-Sphal-Gal. Cemented with calcedonic quartz and ankerite. Recementing matrix does not wseem to have sulphides.			
95.10	95.25	VT	37	70	NUL	2	Ank-cal-Qtz veinlet with trace Sphal, Py			
								Py	0.5	---
								Sp	0.5	---
95.90	95.94	FR	5	60	NUL	1	fracture with ank-cal-py infill			
								Py	1	---
97.82	97.88	GO	34	80	NUL	1	50% gou, 50% clasts >2mm, trace disseminated sulphides. Dark grey/Black sulphide gouge on either end.			
								Py	1	DI
97.88	97.91	VN	37	80	NUL	1	vein consists of >1cm clasts of Ank-Cal-Qtz in med/light grey chalcedonic matrix. Trace Py.			
								Py	1	---
98.00	98.14	VN	37	75	NUL	1	vein consists of >1cm - 2xcm clasts of Ank-Cal-Qtz and wall rock in med/light grey chalcedonic matrix with stringers of Ank. Trace Py.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	---
98.33	98.36	VT	37	60	NUL	1	Ankerite-qtz-Py stringer 2mm across			
								Py	1	---
98.96	98.97	SS	8	55	NUL	1	slickenlines movement towards 30 deg offset counterclockwise from oblique axis			
99.12	99.16	VT	37	80	NUL	1	calcite-ankerite-qtz veinlet with disseminated py and bleached wall rock, 4cm across			
99.40	99.60	JT	16	30	NUL	3	cal chlor infill			
99.60	100.25	JT	16	70	NUL	3	cal chlor infill			
100.43	100.58	JT	16	20	NUL	1	calcite and chlorite infill			
101.40	101.51	FT	42	90	NUL	1	20% gou, 80% clasts >2mm. Unable to tell orientation			
103.17	103.63	FT	42	68	NUL	1	fault 30% gouge, 70% clasts, unmineralized.			
104.25	104.36	FT	42	90	NUL	1	fault, 20% gouge, 80% clasts			
106.03	103.20	FT	42	90	NUL	1	Fault, 80% gouge, 20% clasts			
107.91	108.00	JT	16	55	NUL	2	fractures with cal-chl infill			
109.15	109.24	VT	37	35	NUL	2	veinlets mostly calcite-chl, 1cm across			
111.12	111.13	VN	37	72	NUL	1	vein of Sphal-py-qtz			
								Py	10	---
								Sp	60	---
115.41	115.65	JT	16	60	NUL	3	fractures with epidote halo			
115.92	116.20	JT	16	60	NUL	3	fracture set with cal infill			
118.52	118.56	JT	16	80	NUL	1	fracture with weak bleaching and epidote halo			
121.59	121.60	VT	37	30	NUL	1	calcite veinlet			
122.30	122.40	VN	37	60	NUL	1	mineralized vein			
122.60	122.61	VT	37	60	NUL	1	mineralized veinlet			
124.12	124.15	FR	5	27	NUL	1	fracture with gougy infill			
124.50	124.56	FR	5	85	NUL	1	calcite chlorite fracture			
126.10	126.18	VN	37	55	NUL	1	mineralized vein			
129.90	129.91	JT	16	40	NUL	1	fracture in remineralized brecca, alteration halo, clay minerals			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
131.81	131.82	JT	16	65	NUL	1	joint			
133.80	133.81	JT	16	40	NUL	1	joint			
139.26	139.33	VN	37	60	NUL	1	mineralized vein, no alteration halo			
140.15	140.33	FT	42	70	NUL	1	strained/sheared area, altered, clay			
140.41	140.55	FT	42	75	NUL	1	sheared/strained altered rock			
140.68	140.70	VT	37	72	NUL	1	small, carbonate vein, some sulphides, strong alteration around			
141.11	141.14	VN	37	55	NUL	1	vein mostly sulphides, no strong alteration halo			
142.77	142.78	FR	5	62	NUL	1	carbonate-sulphide fracture/veinlet swarm. Modto strong alteration around			
146.10	146.17	FT	42	50	NUL	1	brecca / gouge section			
146.50	146.66	FT	42	75	NUL	1	fault brecca/gouge, not able to get good measurement, but looks like 75 deg TCA			
147.20	147.35	FT	42	65	NUL	1	fault breccia/strained zone/gouge. Sheared material at ~65 deg TCA			
147.49	147.65	VN	37	65	NUL	1	vein brecca, recemented with silica			
148.34	148.36	VT	37	70	NUL	1	carbonate-qtz-sulphide veinlet			
149.19	149.29	SH	81	90	NUL	1	sheared/strained altered granodiorite, unknown orientation.			
151.26	151.27	ST		73	NUL	1	calcite stringer			
153.16	153.18	ST		20	NUL	1	Calcite stringer			
155.23	155.24	ST		17	NUL	1	calcite stringer			
163.18	163.22	VN	37	65	NUL	1	mineralized carb-qtz-sulphide vein/veinlet, alteration halo moderate			
166.72	166.73	ST		45	NUL	1	calcite chlorite stringer			
167.45	167.46	ST		55	NUL	1	calcite-chlorite-hematite infill veinlet/stringer			
169.10	169.11	FR	5	70	NUL	1	epidote alteration halo			
173.25	173.26	FR	5	65	NUL	1	chlorite-calcite infill			
178.38	178.39	FR	5	55	NUL	1	fracture with epidote and weak potassic alteration			
179.65	181.45	FR	5	15	NUL	4	low angle calcite infill fractures, broken rock			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
182.30	182.31	VT	37	62	NUL	1	small quartz-carbonate-sulphide winlet, minor sulphides, strongly altereed around			
187.00	188.81	FR	5	70	NUL	10	fractures with chlorite and epidote alteration halos			
190.10	190.11	BN		68	NUL	1	band pyrite			
190.51	190.52	FR	5	55	NUL	1	fracture with chlorite infill			
192.17	192.22	FT	42	65	NUL	1	brecciated, gougy little fault interval beside vein			
192.25	192.41	VN	37	70	NUL	1	mineralized carboante quartz sulphide, moderately well mineralized			
192.49	192.70	VT	37	62	NUL	2	granitic veinlets? Weak potassic alteration?			
193.62	193.64	VT	37	70	NUL	1	quartz carbonate vein			
194.50	196.00	BN		45	NUL	4	banded py around small qtz carbonate veins			
195.92	195.93	BN		70	NUL	1	banded py			
200.90	201.00	VN	37	45	NUL	1	quartz-carbonate sulphide vein, alteration halo strong			
204.75	204.78	VT	37	75	NUL	1	carbonate-qtz-sulphide veinlet			
205.50	206.50	VT	37	45	NUL	2	Quartz-carb veinlets with strong alteration halos			
208.50	209.45	VT	37	25	NUL	5	small stringers of qtz-Py, mod alteration halo around.			
216.90	216.94	VT	37	52	NUL	2	small stringers of mineralized brecciated carbonate qtz vein			
219.80	219.82	BN		80	NUL	1	band of aspy			
232.00	235.00	FR	5	70	NUL	7	small epidote altered halos around fractures			
237.74	239.15	FR	5	72	NUL	2	sheared vein sections recemented with quartz carbonate, weak mineralization.			
260.72	260.82	VN	37	70	NUL	1	py-sphal-aspy-gal vein, no alteration halo			
261.04	261.10	VN	37	75	NUL	1	py-gal-sphal-aspy veinlet, well mineralized, some carbonate, no alteration halo			
261.10	264.00	DY	37	70	NUL	1	dyke			
264.00	264.09	VN	37	67	NUL	1	vein			
268.15	268.16	FT	42	55	NUL	1	small qtz carb chl veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
269.70	269.88	VT	37	50	NUL	6	swarm of small qurtz carbonate stringers			
274.55	274.85	VN	37	80	NUL	3	three small moderatley well mineralized qtz-carbonate-sulphide veins.			
278.75	278.76	FR	5	65	NUL	1	epidote alteration halo.			
278.80	278.81	VT	37	38	NUL	1	qtz-carb-clay veinlet			
279.64	279.66	VT	37	40	NUL	1	clay filled fracture, pyryte alteration halo			
280.55	280.56	VT	37	52	NUL	1	quartz-carbonate-chlorite veinlet			
282.46	282.56	VT	37	39	NUL	1	carbonate-qtz-py-hem-smectite veinlet with mod strong clay-pyrite alteration halo, sheared along same orientation			
293.10	293.11	VT	37	60	NUL	1	carbonate-chlorite veinlet			
295.00	295.20	SS	8	15	NUL	1	low angle veinlet/shear with slickensides, carbonate-chlorite infill, smeared py along slickensides. Slickenlines perpendicular to long axis of fracture			
299.65	299.70	SH	81	45	NUL	1	sheared clay altered			
300.15	300.18	VT	37	25	NUL	1	carbonate-chlorite-pyrite-clay veinlet/fracture with clay-pyrite alteration halo			
305.40	305.41	VT	37	60	NUL	1	carbonate-qtz-shlorite veinlet			
305.65	305.72	FR	5	45	NUL	2	clay filled fractures/shear xome with clay alteration halos			
306.00	306.01	VT	37	45	NUL	1	carbonate-pyrite veinlet with strong clay alteration halo			
309.90	309.91	FR	5	60	NUL	1	chlorite -epidote alterstion halo around small qtz veinlet			
312.50	312.52	VT	37	58	NUL	1	qtz-carb-py veinlet with clay-py alteration halo			
314.55	314.60	FR	5	70	NUL	3	epidote-hematite-chlorite alteration halo around small fractures/ qtz veinlets			
318.00	318.30	VT	37	38	NUL	1	carbonate chlorite veinlet / fracture interval			
319.40	319.41	FR	5	72	NUL	1	py infill fracture			
322.85	322.87	VT	37	45	NUL	1	qrz veinlet with silica flooding aorund and pyrite halo			
324.60	324.61	BX	34	40	NUL	1	brecciated carbonate vein with chlorite infill, trace py			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
325.40	325.42	VT	37	55	NUL	1	banded carbonate veinlet with chlorite fill			
326.70	326.71	FR	5	70	NUL	1	contact between host rock and dyke			
328.60	328.61	FR	5	50	NUL	1	clay-quartz-carbonate veinlet			
329.45	329.46	JT	16	40	NUL	1	contact between two pulses of dyke			
329.85	329.86	VT	37	55	NUL	1	qtz-py-sphal veinlet			
330.40	330.41	FR	5	28	NUL	1	clay filled fracture			
330.95	330.96	JT	16	75	NUL	1	clay infilled joint with grey alteration halo, silica alteration?			
330.99	331.00	JT	16	45	NUL	1	clay infilled joint with grey alteration halo, silica alteration?			
331.57	331.58	FR	5	50	NUL	1	brecciated fracture with grey clay infill, trace py in fill			
333.05	333.06	VT	37	25	NUL	1	small quartz-pyrite veinlet			
335.70	335.80	FR	5	55	NUL	3	dark grey clay filled brecciated fractures,			
338.35	338.36	FR	5	50	NUL	1	contact between dyke and host rock			
338.36	338.40	VN	37	48	NUL	1	small vein on lower contact with dyke. Py, shal, chlorite			
339.00	339.01	FR	5	70	NUL	1	calcite-pyrite infilled fracture			
340.23	340.28	VN	37	75	NUL	1	Py-chlorite-sphal veinlet			
342.08	342.10	JT	16	65	NUL	1	calcite-pyrite infill veinlet, epidote alteration around			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382967	6885948	1202	135

ZONE: Rusk

SECTION:

HOLE: KL -20-469

CLAIM: YA78062

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 4.56m, Out

Drilling Dates: Aug 15 - Aug 17, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.2	1.2	CAS
1.2	1.3	0.1	OVB
1.3	8.15	6.85	GRD
8.15	8.8	0.65	GRD
8.8	13.8	5	FEL
13.8	14.2	0.4	FLR
14.2	18.75	4.55	GRD
18.75	19.25	0.5	GRD
19.25	56.15	36.9	GRD
56.15	58.55	2.4	GRD
58.55	66	7.45	GRD
66	77.3	11.3	GRD
77.3	79.1	1.8	SIL
79.1	81.65	2.55	GRD
81.65	82.63	0.98	GRD
82.63	83.63	1	VEN

SAMPLES	
Numbers:	W594182 to W594186, W599340 to W599374
Total:	40
Batch:	002, 005, 006
Certificates:	WH20188125, WH20188145, WH20188147

COMMENTS

Core barrel and bit lost in hole due to large clay seam/ fault zone. Hole abandoned
Downhole survey started at 125m due to clay upwelling in hole.
Handlheld GPS accuracy of 2.0m

83.63	85.4	1.77	GRD
85.4	97.5	12.1	GRD
97.5	98.85	1.35	GRD
98.85	123.85	25	GRD
123.85	125.8	1.95	FLR
125.8	131.6	5.8	FLR
131.6	134.11	2.51	FLR
134.11	135	0.89	FLR

Box Log

KL -20-469

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.2	3.75
2	3.75	6.86
3	6.86	9.25
4	9.25	11.88
5	11.88	14.45
6	14.45	16.97
7	16.97	19.81
8	19.81	22.64
9	22.64	25.6
10	25.6	28.46
11	28.46	31.54
12	31.54	34.73
13	34.73	38.94
14	38.94	43.07
15	43.07	46.77
16	46.77	50.96
17	50.96	55.28
18	55.28	59.44
19	59.44	63.76
20	63.76	67.89
21	67.89	72.18
22	72.18	76.49
23	76.49	80.77
24	80.77	84.89
25	84.89	89.09
26	89.09	93.38
27	93.38	97.7
28	97.7	101.72
29	101.72	105.55
30	105.55	109.24
31	109.24	113.08
32	113.08	117.36
33	117.36	121.61
34	121.61	125.43
35	125.43	129.51
36	129.51	133.57
37	133.57	135

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-469									
	13.21	12.7	HTW	FEL	1272.4	804.6	2.6	2.7	felsic dyke
	47.63	13.6	NTW	GRD	914.9	589.6	2.38	2.8	fine-grained granodiorite
	78.59	18	NTW	SIL	1159	728	2.28	2.7	fine grained silicious dyke? See general lith for description.
	83.27	19.5	NTW	VEN	2675	2179	4.85	5.4	Massive Py and Gal. 50% Py, 32% Gal, 18% Sphal
	83.82	14.8	NTW	GRD	1029	661.6	2.46	2.8	clay alterd granodiorite, minor stringers of sphal and py

KL -20-469

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	OVB	--	casing							
1.20	1.30	0.10	OVB	--	overburden							
1.30	8.15	6.85	GRD	FG	same as general lith							
8.15	8.80	0.65	GRD	FG	same as general lith							
8.80	13.80	5.00	SIL	FG	same as general lith							
13.80	14.20	0.40	FLR	--	same as general lith							
14.20	16.76	2.56	GRD	FG	same as general lith							
16.76	17.08	0.32	GRD	FG	altered package around small quartz-carbonate vein. Limonite and clay altered increasing in intensity towards vein. Vein 6cm thick, ~5% py, but hard to tell, strongly oxidized.						Py	5
17.08	18.75	1.67	GRD	FG	same as general lith							
18.75	18.88	0.13	GRD	FG	altered grd envelope around small fault. Hem-Lim-Cly altered.							
18.88	19.12	0.24	FLR	--	crumbled gouge / sheared fault materail. Strong clay alteration, limonite staining							
19.12	19.25	0.13	GRD	FG	altered grd envelope around small fault. Hem-Lim-Cly altered.							
19.25	32.38	13.13	GRD	FG	GRD, fe-ox common on fracture surfaces, weak potassic alteration on some fractures. Generally massive unaltered.							
32.38	32.52	0.14	GRD	FG	sheared interval with clay alteration and limonite staining, rubbly							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.52	40.10	7.58	GRD	FG	GRD, some fractures with Fe-ox on fract surfaces. Two weakly potassicly altered fractures at 45 deg TCA, one more at 70 deg TCA, small qtz-carb-chl-vein at 35.30 at 10 dec TCA, second similar vein at 38.50 at 40 deg TCA.							
40.10	41.15	1.05	GRD	FG	alteration envelope around small fracture with small veinlet associated. Limonite, hematite, clay alteration, increasing towards vein. Veinis 2cm thick, 30 deg TCA at 41m. Quartz-Ankerite(?), possibly has oxidized Py, but hard to tell.							
41.15	52.50	11.35	GRD	FG	unaltered granodiorite, minor small fractures with potassic alteration, 35 deg TCA.							
52.50	56.15	3.65	GRD	FG	weak clay alteration of feldspars. Small qtz veinlet at 54.5 at 45 deg TCA. Small band of weak potassic alteration at 55.85m at 50 deg TCA.							
56.15	56.60	0.45	GRD	FG	altered envelope, weakly sheared. Limonite-clay-hem alteration, increasing towards vein.							
56.60	56.75	0.15	BXA	--	quartz breccia. Clasts of carbonate vein material, ankerite-rhodenite, minor pyrite, trace gal, in very fine grained mud brown silicious matrix.							
											Py	3
											Gn	0.5
56.75	58.55	1.80	GRD	FG	altered envelope, weakly sheared. Limonite-clay-hem alteration, increasing towards vein. Chalcedony/ vfg quartz veinlet, muddy brown and small interval of gouge/breccia at 56.85-56.93m, no visible mineralizarion.							
58.55	66.00	7.45	GRD	FG	same as general lith							
66.00	70.50	4.50	GRD	FG	unaltered GRD. Single small veinlet with minor Cpy in halo around vein, not sampled, found after samples put in							
											Cp	0.1
70.50	70.57	0.07	GRD	CG	band of potassic alteration, grain size coarsens signifigantly							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
70.57	73.20	2.63	GRD	FG	unaltered GRD							
73.20	74.05	0.85	GRD	FG	altered envelope around 1cm fault/ankerite-Gal-Py-Sphal vein at 73.5m. Clay alteration halo ~50cm to each side. 75 deg TCA.							
											Py	1
											Gn	1
											Sp	1
74.05	77.30	3.25	GRD	FG	unaltered GRD with minor 5cm shear zone with moderate alteration at 76.9m.							
77.30	79.10	1.80	SIL	FG	same as general lithology							
79.10	81.65	2.55	GRD	FG	same as general lith							
81.65	82.63	0.98	GRD	FG	same as general lith							
82.63	83.20	0.57	VEN	--	mottled and banded quatz-carbonate-chalcedony-sulphide-chlorite, with a few 1-5cm intervals of altered host rock encapsulated by various veinlets/vein pulses. Chlorite is dark green, almost black.							
83.20	83.63	0.43	VEN	--	43cm of massive sulphides (Py-Gal-Sphal, minor carbonate) between 83.20-83.63m. Pyrite is finer grained (>2mm), Galena is coarse grained (up to 20mm). Spalerite is dark in center and rimmed with ~2mm of honey brown.							
83.63	85.40	1.77	GRD	FG	same as general lith							
85.40	97.50	12.10	GRD	FG	same as general lith							
97.50	98.15	0.65	GRD	FG	altered envelope, light green grey, clay and weak chlorite alteration increasing towards FBX							
98.15	98.40	0.25	FLT	--	Brecciated altered granodiorite, 10% gouge, breccia clasts up to 3cm.							
98.40	98.85	0.45	GRD	FG	altered envelope, light green grey, clay and weak chlorite alteration decreasing away from FBX							
98.85	123.85	25.00	GRD	FG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.85	125.80	1.95	GRD	FG	same as general lith							
125.80	131.60	5.80	FLR	--	same as general lith							
131.60	134.11	2.51	GRD	FG	same as general lith							
134.11	135.00	0.89	GRD	FG	same as general lith description							

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From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.20	1.20	OVB	OVB	--	casing
1.20	1.30	0.10	OVB	OVB	--	overburden
1.30	8.15	6.85	GRD	GRD	FG	same as general lith
8.15	8.80	0.65	GRD	GRDA	FG	same as general lith
8.80	13.80	5.00	SIL	DYK	FG	same as general lith
13.80	14.20	0.40	FLR	FLT	--	same as general lith
14.20	16.76	2.56	GRD	GRD	FG	same as general lith
16.76	17.08	0.32	GRD	GRD	FG	altered package around small quartz-carbonate vein. Limonite and clay altered increasing in intensity towards vein. Vein 6cm thick, ~5% py, but hard to tell, strongly oxidized.
17.08	18.75	1.67	GRD	GRD	FG	same as general lith
18.75	18.88	0.13	GRD	FLT	FG	altered grd envelope around small fault. Hem-Lim-Cly altered.
18.88	19.12	0.24	FLR	FLT	--	crumbled gouge / sheared fault materail. Strong clay alteration, limonite staining
19.12	19.25	0.13	GRD	FLT	FG	altered grd envelope around small fault. Hem-Lim-Cly altered.
19.25	32.38	13.13	GRD	GRD	FG	GRD, fe-ox common on fracture surfaces, weak potassic alteration on some fractures. Generally massive unaltered.
32.38	32.52	0.14	GRD	GRD	FG	sheared interval with clay alteration and limonite staining, rubbly
32.52	40.10	7.58	GRD	GRD	FG	GRD, some fractures with Fe-ox on fract surfaces. Two weakly potassicly altered fractures at 45 deg TCA, one more at 70 deg TCA, small qtz-carb-chl-vein at 35.30 at 10 dec TCA, second similar vein at 38.50 at 40 deg TCA.
40.10	41.15	1.05	GRD	GRD	FG	alteration envelope around small fracture with small veinlet associated. Limonite, hematite, clay alteration, increasing towards vein. Veinis 2cm thick, 30 deg TCA at 41m. Quartz-Ankerite(?), possibly has oxidized Py, but hard to tell.
41.15	52.50	11.35	GRD	GRD	FG	unaltered granodiorite, minor small fractures with potassic alteration, 35 deg TCA.
52.50	56.15	3.65	GRD	GRD	FG	weak clay alteration of feldspars. Small qtz veinlet at 54.5 at 45 deg TCA. Small band of weak potassic alteration at 55.85m at 50 deg TCA.
56.15	56.60	0.45	GRD	GRDA	FG	altered envelope, weakly sheared. Limonite-clay-hem alteration, increasing towards vein.
56.60	56.75	0.15	BXA	GRDA	--	quartz breccia. Clasts of carbonate vein material, ankerite-rhodenite, minor pyrite, trace gal, in very fine grained mud brown silicious matrix.
56.75	58.55	1.80	GRD	GRDA	FG	altered envelope, weakly sheared. Limonite-clay-hem alteration, increasing towards vein. Chalcedony/ vfg quartz veinlet, muddy brown and small interval of gouge/breccia at 56.85-56.93m, no visible mineralizarion.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
58.55	66.00	7.45	GRD	GRD	FG	same as general lith
66.00	70.50	4.50	GRD	GRD	FG	unaltered GRD. Single small veinlet with minor Cpy in halo around vein, not sampled, found after samples put in
70.50	70.57	0.07	GRD	GRD	CG	band of potassic alteration, grain size coarsens signifigantly
70.57	73.20	2.63	GRD	GRD	FG	unaltered GRD
73.20	74.05	0.85	GRD	GRD	FG	altered envelope around 1cm fault/ankerite-Gal-Py-Sphal vein at 73.5m. Clay alteration halo ~50cm to each side. 75 deg TCA.
74.05	77.30	3.25	GRD	GRD	FG	unaltered GRD with minor 5cm shear zone with moderate alteration at 76.9m.
77.30	79.10	1.80	SIL	DYK	FG	same as general lithology
79.10	81.65	2.55	GRD	GRD	FG	same as general lith
81.65	82.63	0.98	GRD	GRDA	FG	same as general lith
82.63	83.20	0.57	VEN	VEIN	--	mottled and banded quatz-carbonate-chalcedony-sulphide-chlorite, with a few 1-5cm intervals of altered host rock encapsulated by various veinlets/vein pulses. Chlorite is dark green, almost black.
83.20	83.63	0.43	VEN	VEIN	--	43cm of massive sulphides (Py-Gal-Sphal, minor carbonate) between 83.20-83.63m. Pyrite is finer grained (>2mm), Galena is coarse grained (up to 20mm). Spalerite is dark in center and rimmed with ~2mm of honey brown.
83.63	85.40	1.77	GRD	GRDA	FG	same as general lith
85.40	97.50	12.10	GRD	GRD	FG	same as general lith
97.50	98.15	0.65	GRD	GRDA	FG	altered envelope, light green grey, clay and weak chlorite alteration increasing towards FBX
98.15	98.40	0.25	FLT	GRDA	--	Brecciated altered granodiorite, 10% gouge, breccia clasts up to 3cm.
98.40	98.85	0.45	GRD	GRDA	FG	altered envelope, light green grey, clay and weak chlorite alteration decreasing away from FBX
98.85	123.85	25.00	GRD	GRD	FG	same as general lith
123.85	125.80	1.95	GRD	GRDF	FG	same as general lith
125.80	131.60	5.80	FLR	FLT	--	same as general lith
131.60	134.11	2.51	GRD	GRDF	FG	same as general lith
134.11	135.00	0.89	GRD	GRDF	FG	same as general lith description

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.20	1.20	CAS	--	casing							
1.20	1.30	0.10	OVB	--	overburden							
1.30	8.15	6.85	GRD	FG	weak potassic alteration along some fractures at 10 deg TCA							
						MD	GY	MA	CHL	1I		
						LT	BL					
8.15	8.80	0.65	GRD	FG	altered, brown, limonite stained, feldspars altered to clay minerals, some hematite alteration of mafics, but destroyed as alteration becomes more intense.							
						MD	BF	EN	CLY	4I		
						LT	BR		HEM	2I		
									LIM	3I		
8.80	13.80	5.00	FEL	FG	buff grey when unaltered, but mostly oxidized and limonite stained. Fine grained ground mass with anhedral to subhedral feldspar-quartz-muscovite phenocrysts up to 8mm, 6mm and 2mm respectively. Unmineralized.							
						LT	GY	MA	LIM	1I		
						LT	BF	PO	CLY	1I		
								ST				
13.80	14.20	0.40	FLR	--	strongly limonite-clay altered, brown fault brecca and rubble>gouge. Patchy hematite alteration and some patchy chlortite alteration.							
						MD	BN	FR	CLY	4I		
						LT	BF		LIM	4I		
						LT	TN		CHL	2I		
									HEM	1I		
14.20	18.75	4.55	GRD	FG	fe-ox on fracture surfaces. Weak potassic alteration in some fractures, 35 deg TCA.							
						MD	GN	MA	LIM	1I		
						MD	GY		CHL	1I		
						LT	BL					
18.75	19.25	0.50	GRD	FG	limonite and hematite altered envelope around small sheared interval, sheared rock is strongly clay altered, weak limonite staining.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	BR	FL	LIM	4I		
						MD	RD		CLY	3I		
						LT	BF		HEM	2I		
19.25	56.15	36.90	GRD	FG	few small altered intervals, generally limonite-clay altered, generally sheared weakly in these intervals. Fe-ox in fractures common, especially until 25m depth. Minor fractures with potassic alteration. Strongly magnetic.							
56.15	58.55	2.40	GRD	FG	altered GRD, limonite-clay-hematite altered envelope around vein breccia.							
						MD	BF	EN	LIM	4I		
						MD	BN		CLY	3I		
									HEM	1I		
58.55	66.00	7.45	GRD	FG	generally unaltered. Weakly clay altered feldspars. Small qtz-carb veinlet at 64.4m at 43 deg TCA							
						MD	GY	MA	CLY	1I		
						LT	GN					
						LT	BL					
66.00	77.30	11.30	GRD	FG	unaltered granodiorite. Small quartz-chlorite veinlet at 67.6m at 65 deg TCA. 7cm band of potassic alteration at 70.5m. ~1m bleached / clay altered envelope around very minor fault at 73.5m. Small veinlet with trace Cpy disseminated around it (found after samples were put in, not sampled)							
						LT	BL		CLY	1I		
						MD	GY	MA	CHL	1I	Cp	0.1
						LT	GN		POT	1I		
77.30	79.10	1.80	SIL	FG	Unknown! Massive fine grained grey silica dyke, or granodiorite that has been totally silica flooded to the point where all primary textures are obliterated. Patchy green-grey around minor fractures. Sharp upper and lower contacts. Leaning towards silicious dyke, possible small xenoliths of granodiorite, but xenoliths are silica-chlorite-hematite altered and weakly reactive to acid.							
79.10	81.65	2.55	GRD	FG	unaltered GRD. Three chlorite alteration halo fractures at 40-45 deg TCA thoughout interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	MA	CHL	1I		
						MD	GY					
						DK	BL					
81.65	82.63	0.98	GRD	FG	altered GRD halo around mineralized vein below. Chlorite-clay alteration bleaching to caly alteratin proximal to vein. Disseminated py increasing in concentration close to vein. Small stringers of sulphides increasing in frequency closer to vein contact. Minor py-sphal-gal.							
								EN				
82.63	83.63	1.00	VEN	--	Well mineralized vein. Upper portion/hanging wall side is banded quatz-carbonate-chalcedony-sulphide-chlorite, with a few 1-5cm intervals of altered host rock encapsulated by various veinlets/vein pulses. 43cm of massive sulphides (Py-Gal-Sphal, minor carbonate) between 83.20-83.63m. Pyrite is finer grained (>2mm), Galena is coarse grained (up to 20mm). Spalerite is dark in center and rimmed with ~2mm of honey brown. Vein walls 70 deg TCA.							
						--	--	BN	CLY	2I	Py	28
								MA	SIL	1I	Gn	14
								XL			Sp	6
								ZO				
83.63	85.40	1.77	GRD	FG	Altered GRD halo below mineralized vein. Chlorite-clay alteration bleaching to caly alteration proximal to vein. Disseminated py higher in concentration close to vein. Small stringers of sulphides higher in frequency closer to vein contact. Minor py-sphal-gal present in stringers/veinlets.							
						LT	GY	EN	CHL	1I		
						LT	GN					
						LT	GY					
85.40	97.50	12.10	GRD	FG	unaltered grd, minor fractures with epidote alteration halos. Pervasive weak chlorite alteration. Small carbonate qtz vein at 88.7m at 70 deg TCA.							
						MD	GN	MA	CHL	1I		
						MD	GY					
97.50	98.85	1.35	GRD	FG	alteration envelope around 25cm FBX at 98.15-98.40m							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MA	CLY	2I		
						LT	GN	SH	CHL	1I		
98.85	123.85	25.00	GRD	FG	Generally unaltered Granodiorite, fractured. Fine infill of white clay in many of the fracture surfaces. Fracture orientations chaotic. 2mm Qtz-Carb veinlet with minor Py-Gal-Sphal-Hem at 120m. Feldspars weakly clay altered with fine calcite halo.							
						MD	GY	MA	CLY	1I		
						MD	GY	CR				
123.85	125.80	1.95	FLR	FG	Heavily fractured and crached GRD, locally rubbly. Pervasive weak chorite alteration, calcite also rimming weakly clay altered feldspars. Calcite in fractures, and minor chlorite.							
						MD	GY	CR	CLY	1I		
								RB				
125.80	131.60	5.80	FLR	--	Heavily sheared and faulted rock. Minor intervals of gouge, mostly rock is intensly sheared and clay altered. Original rock fabric is visible, but very ductile, easily deforms under finger. Clay between grains. Pervasive calcite alteration and calcite in fractures and matrix.							
						LT	WH	FR				
								SH				
						MD	GN	CR				
						LT	GY	SN	CLY	3I		
131.60	134.11	2.51	FLR	FG	Granodiorite, intervals of somewhat more competent rock, still generally intensely sheared rock. Minor hematite alteration in some fractures and shears. Lots of cave-in from above, the drillers had a hell of a time here. Getting out of fault zone at bottom of interval.							
						LT	GN	FL				
								CR				
								RB				
						MD	GY	BN	CLY	2I		
134.11	135.00	0.89	FLR	FG	Cracked and broken fine grained GRD. No mineralization observed. Drillers hit competent rock below fault, but hole abandoned due to pinching from fault. Core barrel and bit lost. No final core block, possibly lots of cave in in last interval. EOH is an estimate.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								RB				
						MD	GY	CR	CLY	1I		
						LT	GN	FR				

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.20	1.20	0	0	0.00	0	--	--	--	
1.20	1.52	0.32	0.3	94	0.11	34	--	1H	4W	
1.52	3.05	1.53	1.53	100	0.55	36	--	4H	2W	
3.05	4.57	1.52	1.52	100	0.95	63	--	4H	1W	
4.57	6.10	1.53	1.45	95	1.00	65	--	4H	1W	
6.10	7.62	1.52	1.52	100	1.21	80	--	4H	1W	
7.62	9.14	1.52	1.52	100	0.56	37	--	1H	4W	
9.14	10.67	1.53	1.52	99	0.36	24	--	4H	2W	
10.67	12.19	1.52	1.33	88	0.50	33	--	4H	2W	
12.19	13.72	1.53	1.52	99	0.81	53	--	4H	2W	
13.72	15.24	1.52	1.52	100	0.68	45	--	1H	3W	
15.24	16.76	1.52	1.52	100	0.68	45	--	4H	1W	
16.76	18.29	1.53	1.52	99	0.65	42	--	3H	2W	
18.29	19.81	1.52	1.52	100	0.65	43	--	1H	3W	
19.81	21.34	1.53	1.52	99	1.19	78	--	4H	1W	
21.34	22.86	1.52	1.52	100	1.22	80	--	4H	1W	
22.86	24.38	1.52	1.44	95	1.19	78	--	4H	1W	
24.38	25.91	1.53	1.52	99	0.93	61	--	4H	1W	
25.91	27.43	1.52	1.52	100	1.06	70	--	4H	1W	
27.43	28.96	1.53	1.52	99	0.94	61	--	4H	1W	
28.96	30.48	1.52	1.5	99	1.36	89	--	4H	1W	
30.48	32.00	1.52	1.52	100	1.43	94	--	4H	1W	Reduced
32.00	35.05	3.05	3.05	100	2.19	72	--	1H	2W	
35.05	38.10	3.05	3.05	100	2.77	91	--	4H	1W	
38.10	41.15	3.05	3.05	100	2.09	69	--	3H	2W	
41.15	42.67	1.52	1.32	87	0.95	63	--	4H	1W	
42.67	44.20	1.53	1.53	100	1.33	87	--	4H	1W	
44.20	47.24	3.04	3.04	100	2.50	82	--	4H	1W	
47.24	50.29	3.05	3.05	100	2.75	90	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
50.29	53.34	3.05	3.05	100	1.87	61	--	4H	1W	
53.34	56.39	3.05	3.05	100	2.25	74	--	1H	2W	
56.39	59.44	3.05	3	98	1.60	52	--	2H	2W	
59.44	62.48	3.04	3.04	100	2.24	74	--	1H	2W	
62.48	65.53	3.05	3.05	100	1.98	65	--	2H	2W	13cm of weathered Granodiorite, other wise the rest of the rock has a hardness of 4 with 1W and 3S
65.53	68.58	3.05	3.05	100	1.96	64	--	4H	1W	
68.58	71.63	3.05	3.05	100	1.97	65	--	4H	1W	
71.63	74.68	3.05	3.05	100	1.81	59	--	4H	1W	
74.68	77.72	3.04	3.04	100	1.97	65	--	4H	1W	
77.72	80.77	3.05	3.05	100	2.17	71	--	4H	1W	
80.77	83.82	3.05	3.05	100	2.60	85	--	2H	1W	
83.82	86.87	3.05	3.05	100	2.52	83	--	3H	1W	
86.87	89.92	3.05	3.05	100	2.20	72	--	4H	1W	
89.92	92.96	3.04	3.04	100	2.32	76	--	4H	1W	
92.96	96.01	3.05	3.05	100	2.57	84	--	4H	1W	
96.01	99.06	3.05	3.05	100	2.23	73	--	2H	1W	
99.06	102.11	3.05	3.05	100	2.12	70	--	4H	1W	
102.11	105.16	3.05	3.05	100	1.41	46	--	4H	1W	
105.16	108.20	3.04	3.01	99	0.49	16	--	4H	1W	
108.20	110.64	2.44	2.44	100	0.96	39	--	4H	1W	Driller error in blocks. Interval is from 355ft to 363 ft
110.64	112.78	2.14	2.07	97	0.80	37	--	4H	1W	Change in intervals from blocking. Interval at 363ft to 370 ft.
112.78	115.82	3.04	3.04	100	1.93	63	--	4H	1W	
115.82	118.87	3.05	3.05	100	2.13	70	--	4H	1W	
118.87	121.92	3.05	3.05	100	1.75	57	--	4H	1W	
121.92	124.97	3.05	3.05	100	1.91	63	--	1H	1W	
124.97	128.02	3.05	3.05	100	0.00	0	--	1H	1W	fault gouge/strain
128.02	131.06	3.04	3.04	100	0.00	0	--	1H	1W	fault gouge/strain
131.06	134.11	3.05	2.44	80	0.00	0	--	1H	1W	
134.11	135.00	0.89	0.71	80	0.00	0	--	1H	1W	

KL -20-469

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	32.95	CAS	
2	30.72	GRD	
3	12.78	GRD	
4	22.52	GRD	
5	26.35	GRD	
6	43.18	GRD	
7	34.86	GRD	
8	22.76	GRD	
9	0.284	FEL	
10	0.23	FEL	
11	0.433	FEL	
12	0.587	FEL	
13	1.371	FEL	
14	0.288	FLR	
15	41.35	GRD	
16	40.77	GRD	
17	0.871	GRD	
18	28.38	GRD	
19	0.49	GRD	
20	33.88	GRD	
21	39.85	GRD	
22	34.63	GRD	
23	36.66	GRD	
24	45.41	GRD	
25	43.26	GRD	
26	32.5	GRD	
27	39.95	GRD	
28	34.74	GRD	
29	34.97	GRD	
30	34.54	GRD	
31	40.06	GRD	
32	36.8	GRD	
33	40.82	GRD	
34	39.5	GRD	
35	39.94	GRD	
36	40.19	GRD	
37	43.26	GRD	
38	42.41	GRD	
39	43.99	GRD	
40	33.98	GRD	
41	0.773	GRD	
42	45.13	GRD	
43	46.26	GRD	
44	39.19	GRD	
45	42.27	GRD	
46	45.53	GRD	
47	43.86	GRD	
48	41.49	GRD	
49	34.57	GRD	
50	40.53	GRD	
51	37.43	GRD	
52	40.94	GRD	
53	40.03	GRD	
54	41.88	GRD	
55	39.5	GRD	
56	40.82	GRD	
57	0.641	GRD	
58	0.887	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	43.78	GRD	
60	56.05	GRD	
61	46.15	GRD	
62	42.98	GRD	
63	39.63	GRD	
64	39.99	GRD	
65	52.26	GRD	
66	46.97	GRD	
66	46.97	GRD	
67	54.99	GRD	
68	59.63	GRD	
69	61.2	GRD	
70	66.32	GRD	
71	60.83	GRD	
72	52.21	GRD	
73	63.69	GRD	
74	0.772	GRD	
75	61.45	GRD	
76	37.5	GRD	
77	47.38	GRD	
78	11.44	SIL	
79	15.88	SIL	
80	35.19	GRD	
81	51.05	GRD	
82	0.999	GRD	
83	0.377	VEN	
84	0.396	GRD	
85	0.86	GRD	
86	41.8	GRD	
87	51.52	GRD	
88	18.67	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
89	54.27	GRD	
90	46.6	GRD	
91	44.66	GRD	
92	44.73	GRD	
93	52.37	GRD	
94	47.35	GRD	
95	53.93	GRD	
96	58.14	GRD	
97	61.65	GRD	
98	0.939	GRD	
99	59.51	GRD	
100	68.25	GRD	
101	51.88	GRD	
102	59.01	GRD	
103	56.18	GRD	
104	47.22	GRD	
105	57.77	GRD	
106	56.56	GRD	
107	55.96	GRD	
108	33.9	GRD	
109	53.28	GRD	
110	58.49	GRD	
111	54.55	GRD	
112	46.42	GRD	
113	54.12	GRD	
114	57.93	GRD	
115	53.8	GRD	
116	56.34	GRD	
117	52.81	GRD	
118	47.81	GRD	
119	52.12	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
120	35.23	GRD	
121	36.35	GRD	
122	43.51	GRD	
123	40.82	GRD	
124	43.93	FLR	
125	27.27	FLR	
126	34.65	FLR	
127	13.36	FLR	
128	22.4	FLR	
129	20.23	FLR	
130	16.95	FLR	
131	34.35	FLR	
132	23.99	FLR	
133	11.3	FLR	
134	30.61	FLR	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -20-469

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599350	☐	20-006	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594185	☐	20-002	High Grade		☑	☐	☐
8.20	8.80	0.60	GRD	0.60	100	W599340	☐	20-005	Low Grade		☐	☐	☐
8.20	8.80	0.60	GRD	0.60	100	W599341	☐	20-005	Low Grade		☐	☐	☑
8.80	10.00	1.20	GRD, FEL	1.20	100	W599342	☐	20-005	Low Grade		☐	☐	☐
10.00	11.50	1.50	FEL	1.35	90	W599343	☐	20-005	Low Grade		☐	☐	☐
11.50	13.00	1.50	FEL	1.42	95	W599344	☐	20-005	Low Grade		☐	☐	☐
13.00	13.80	0.80	FEL	0.80	100	W599345	☐	20-006	Low Grade		☐	☐	☐
13.80	14.50	0.70	FEL, FLR	0.70	100	W599346	☐	20-006	Low Grade		☐	☐	☐
14.50	15.50	1.00	GRD	1.00	100	W599347	☐	20-006	Low Grade		☐	☐	☐
15.50	16.70	1.20	GRD	1.20	100	W599348	☐	20-006	Low Grade		☐	☐	☐
16.70	17.25	0.55	GRD	0.51	93	W599349	☐	20-006	Low Grade		☐	☐	☐
17.25	18.75	1.50	GRD	1.50	100	W599351	☐	20-006	Low Grade		☐	☐	☐
18.75	19.25	0.50	GRD, GRD	0.50	100	W599352	☐	20-006	Low Grade		☐	☐	☐
40.00	41.20	1.20	GRD	1.11	93	W599353	☐	20-006	Low Grade		☐	☐	☐
56.15	56.93	0.78	GRD, GRD	0.78	100	W599354	☐	20-006	Low Grade		☐	☐	☐
56.93	57.70	0.77	GRD	0.72	94	W599355	☐	20-006	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
57.70	58.55	0.85	GRD	0.80	94	W599356	☐	20-006	Low Grade		☐	☐	☐
62.05	63.00	0.95	GRD	0.95	100	W599357	☐	20-006	Low Grade		☐	☐	☐
63.00	63.76	0.76	GRD	0.75	99	W599358	☐	20-006	Low Grade		☐	☐	☐
77.30	78.30	1.00	SIL, GRD	1.00	100	W599359	☐	20-006	Low Grade		☐	☐	☐
78.30	79.08	0.78	SIL	0.72	92	W599360	☐	20-006	Low Grade		☐	☐	☐
79.08	80.50	1.42	SIL	1.42	100	W599361	☐	20-006	Low Grade		☐	☐	☐
80.50	81.65	1.15	GRD	1.10	96	W599362	☐	20-006	Low Grade		☐	☐	☐
81.65	82.63	0.98	GRD, GRD	0.98	100	W594182	☐	20-002	High Grade		☐	☐	☐
82.63	83.18	0.55	VEN, GRD	0.55	100	W594183	☐	20-002	High Grade		☐	☐	☐
83.18	83.63	0.45	VEN	0.44	98	W594184	☐	20-002	High Grade		☐	☐	☐
83.63	84.80	1.17	VEN, GRD	1.15	98	W594186	☐	20-002	High Grade		☐	☐	☐
84.80	85.80	1.00	GRD	1.00	100	W599363	☐	20-006	Low Grade		☐	☐	☐
84.80	85.80	1.00	GRD	1.00	100	W599364	☐	20-006	Low Grade		☐	☑	☐
85.80	87.00	1.20	GRD	1.20	100	W599365	☐	20-006	Low Grade		☐	☐	☐
123.00	124.50	1.50	GRD	1.50	100	W599366	☐	20-006	Low Grade		☐	☐	☐
124.50	126.00	1.50	FLR	1.50	100	W599367	☐	20-006	Low Grade		☐	☐	☐
126.00	127.50	1.50	FLR	1.50	100	W599368	☐	20-006	Low Grade		☐	☐	☐
127.50	129.00	1.50	FLR	1.50	100	W599369	☐	20-006	Low Grade		☐	☐	☐
129.00	130.50	1.50	FLR	1.41	94	W599370	☐	20-006	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
130.50	132.00	1.50	FLR	1.45	97	W599371	☐	20-006	Low Grade		☐	☐	☐
130.50	132.00	1.50	FLR	1.45	97	W599372	☐	20-006	Low Grade		☐	☐	☑
132.00	133.50	1.50	FLR	0.98	65	W599373	☐	20-006	Low Grade		☐	☐	☐
133.50	135.00	1.50	FLR	1.40	93	W599374	☐	20-006	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-002	W594185	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-006	W599350	0.00	0.00	0.60	240	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-005	W599340	8.20	8.80	0.05	650	☐	☐	☐	☐	
20-005	W599341	8.20	8.80	0.05	660	☐	☑	☐	☐	Coarse Dup
20-005	W599342	8.80	10.00	0.01	820	☐	☐	☐	☐	
20-005	W599343	10.00	11.50	0.01	1450	☐	☐	☐	☐	
20-005	W599344	11.50	13.00	0.00	1750	☐	☐	☐	☐	
20-006	W599345	13.00	13.80	0.00	1420	☐	☐	☐	☐	
20-006	W599346	13.80	14.50	0.03	1290	☐	☐	☐	☐	
20-006	W599347	14.50	15.50	0.00	1330	☐	☐	☐	☐	
20-006	W599348	15.50	16.70	0.00	1330	☐	☐	☐	☐	
20-006	W599349	16.70	17.25	0.02	740	☐	☐	☐	☐	
20-006	W599351	17.25	18.75	0.00	1310	☐	☐	☐	☐	
20-006	W599352	18.75	19.25	0.07	650	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-006	W599353	40.00	41.20	0.02	690	☐	☐	☐	☐	
20-006	W599354	56.15	56.93	0.21	520	☐	☐	☐	☐	
20-006	W599355	56.93	57.70	0.00	970	☐	☐	☐	☐	
20-006	W599356	57.70	58.55	0.00	1110	☐	☐	☐	☐	
20-006	W599357	62.05	63.00	0.00	1280	☐	☐	☐	☐	
20-006	W599358	63.00	63.76	0.00	1360	☐	☐	☐	☐	
20-006	W599359	77.30	78.30	0.01	1560	☐	☐	☐	☐	
20-006	W599360	78.30	79.08	0.00	1400	☐	☐	☐	☐	
20-006	W599361	79.08	80.50	0.00	1350	☐	☐	☐	☐	
20-006	W599362	80.50	81.65	0.00	1350	☐	☐	☐	☐	
20-002	W594182	81.65	82.63	0.08	900	☐	☐	☐	☐	
20-002	W594183	82.63	83.18	1.08	270	☐	☐	☐	☐	
20-002	W594184	83.18	83.63	3.35	20	☐	☐	☐	☐	
20-002	W594186	83.63	84.80	0.40	530	☐	☐	☐	☐	
20-006	W599363	84.80	85.80	0.05	1100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-006	W599364	84.80	85.80	0.06	1050	☑	☐	☐	☐	1/4 duplicate
20-006	W599365	85.80	87.00	0.00	1410	☐	☐	☐	☐	
20-006	W599366	123.00	124.50	0.00	1540	☐	☐	☐	☐	
20-006	W599367	124.50	126.00	0.00	1610	☐	☐	☐	☐	
20-006	W599368	126.00	127.50	0.00	1300	☐	☐	☐	☐	
20-006	W599369	127.50	129.00	0.00	1270	☐	☐	☐	☐	
20-006	W599370	129.00	130.50	0.01	1230	☐	☐	☐	☐	
20-006	W599371	130.50	132.00	0.01	1270	☐	☐	☐	☐	
20-006	W599372	130.50	132.00	0.01	1240	☐	☑	☐	☐	Coarse dup
20-006	W599373	132.00	133.50	0.01	1310	☐	☐	☐	☐	
20-006	W599374	133.50	135.00	0.01	1400	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.30	5.35	BN		10	NUL	1	band of weak bleaching and potassic alteration			
11.00	11.01	JT	16	45	NUL	1	joint in dyke			
14.65	14.66	BN		50	NUL	1	band of weak bleaching and potassic alteration			
16.00	16.01	BN		35	NUL	1	band of weak potassic alteration			
19.14	19.15	FR	5	63	NUL	1	edge of brecciated interval and altered host rock			
22.00	22.01	BN		65	NUL	1	small band of potassic alteration			
22.40	22.41	FR	5	25	NUL	1	low angle fracture with quartz, carbonate, limonite, chlorite infill			
29.75	29.76	FR	5	45	NUL	1	small calcite-quartz-chlorite infilled fracture			
30.75	30.76	FR	5	40	NUL	1	small fracture, siderite infill, very minor small bleaching halo			
30.85	30.86	FR	5	65	NUL	1	siderite/limonite infill			
31.54	31.55	FR	5	45	NUL	1	carbonte/limonite infill			
35.40	35.41	VT	37	10	NUL	1	quartz-carbonate-chlorite-limonite infill			
36.30	36.31	BN		45	NUL	1	band of weak bleaching/potassic alteration			
37.45	37.46	BN		45	NUL	1	band of trace bleaching/potassic alteration			
38.45	38.46	FR	5	40	NUL	1	carbonate-chlorite-limonite infill fracture			
39.60	39.61	BN		35	NUL	1	band of weak bleaching/potassic alteration			
41.90	41.91	BN		35	NUL	1	band of weak bleaching/potassic alteration			
42.10	42.11	BN		70	NUL	1	band of weak bleaching/potassic alteration			
43.35	43.36	BN		35	NUL	1	band of weak bleaching/potassic alteration			
43.80	23.81	FR	5	12	NUL	1	carbonate-chlorite infill fracture, low angle			
47.35	47.36	BN		60	NUL	1	band of weak bleaching/potassic alteration			
54.35	54.36	FR	5	45	NUL	1	qtz-carb-chl infill			
55.90	55.91	BN		50	NUL	1	band of weak bleaching/potassic alteration			
56.55	56.56	FR	5	30	NUL	1	chalcedony breccia vein with minor sulphides			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
58.15	58.16	VT	37	25	NUL	1	fracture in altered GRD, quartz-carbonate veinlet with minor py			
64.30	64.31	VT	37	43	NUL	1	quartz carbonate veinlet, barren			
67.65	67.66	FR	5	65	NUL	1	quartz-carbonate calcite infill in fracture			
73.50	73.51	VT	37	75	NUL	1	small 1cm well mineralized veinlet. Gal-Py-Sphal, small fault immediately beside it. Inside alteration halo.			
								Py	30	---
								Gn	30	---
								Sp	20	---
74.90	74.95	SH	81	62	NUL	1	and clay altered small shear zome			
79.90	80.20	FR	5	42	NUL	3	epidote alteration around fractures			
81.00	81.01	FR	5	45	NUL	1	epidote alteration around fracture			
82.10	82.11	ST		32	NUL	1	pyrite stinger in alteration halo around well mineralized vein			
83.10	83.11	FR	5	70	NUL	1	fracture in well mineralized vein, fracture follows oreintation of banding of sulphides in vein			
84.70	84.71	VT	37	65	NUL	2	small mineralized stringers			
								Gn	20	---
								Py	20	---
								Sp	20	---
88.60	88.61	VT	37	70	NUL	1	quartz veinlet, trace py			
								Py	1	---
91.75	91.76	FR	5	30	NUL	1	carbonate chlorite infill			
97.85	98.85	FT	42	60	NUL	5	multiple fractures and interval of brecciated host rock with clear boundaries to unbrecciated rock..			
99.10	99.11	VT	37	58	NUL	1	quartz veinlet with trace sulphides			
								Py	1	---
108.20	108.22	VT	37	50	NUL	1	quartz-carbonate-chlorite			
120.00	120.10	VT	37	55	NUL	1	very small stinger with trace Py-Gal-Sphal			
								Py	0.5	---
								Gn	0.5	---
								Sp	0.5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
125.80	125.81	FR	5	37	NUL	1	calcite infilled fracture			
129.75	129.76	FR	5	34	NUL	1	fracture or shear in strained, altered, GRD			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382883	6885832	1208	263.65

ZONE: Rusk

SECTION:

HOLE: KL -20-470

CLAIM: YA78060

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 7.62m, Out

Drilling Dates: Aug 17 - Aug 20, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.9	0.9	CAS
0.9	2.5	1.6	OVB
2.5	16.26	13.76	FLR
16.26	33.3	17.04	GRD
33.3	46.5	13.2	GRD
46.5	52.85	6.35	GRD
52.85	58.15	5.3	FEL
58.15	125.3	67.15	GRD
125.3	163.7	38.4	GRD
163.7	165.9	2.2	GRD
165.9	179.9	14	GRD
179.9	201.44	21.54	GRD
201.44	202.08	0.64	GRD
202.08	205.25	3.17	GRD
205.25	208.29	3.04	GRD
208.29	225.77	17.48	GRD

SAMPLES	
Numbers:	W594187 to W594205, W599375 to W599438
Total:	83
Batch:	006, 007, 008, 009
Certificates:	WH20188147, WH20188148, WH20195518, WH20195522

COMMENTS
Handheld GPS accuracy of 1.1m

225.77	263.65	37.88	GRD

Box Log

KL -20-470

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.9	4.1
2	4.1	7.5
3	7.5	10.67
4	10.67	16.53
5	16.53	19.31
6	19.31	23.17
7	23.17	27.03
8	27.03	31.11
9	31.11	34.75
10	34.75	38.58
11	38.58	42.39
12	42.39	46.29
13	46.29	50.17
14	50.17	53.68
15	53.68	57.82
16	57.82	61.11
17	61.11	64.42
18	64.42	68.33
19	68.33	72.3
20	72.3	75.94
21	75.94	79.45
22	79.45	83.28
23	83.28	87.48
24	87.48	91.46
25	91.46	95.56
26	95.56	99.06
27	99.06	103.13
28	103.13	106.97
29	106.97	110.96
30	110.96	114.8
31	114.8	118.75
32	118.75	122.8
33	122.8	126.8
34	126.8	130.86
35	130.86	134.7
36	134.7	139.03
37	139.03	143.16
38	143.16	147.12
39	147.12	151.1
40	151.1	155.18
41	155.18	159.05
42	159.05	162.84
43	162.84	166.92
44	166.92	170.33
45	170.33	174.11
46	174.11	178.2
47	178.2	182
48	182	185.65
49	185.65	189.74
50	189.74	193.38
51	193.38	197.16
52	197.16	201.06
53	201.06	205.37
54	205.37	209.05
55	209.05	212.37
56	212.37	216.13
57	216.13	220.5
58	220.5	224.45
59	224.45	228.43
60	228.43	232.72
61	232.72	237.03
62	237.03	241.31
63	241.31	245.56
64	245.56	249.79
65	249.79	253.9
66	253.9	258.28
67	258.28	262.52
68	262.52	263.65

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-470									
	33.3	12.4	NTW	GRD	985.2	672	2.81	3.2	Pyrite, Sphalerite, and Galena Mineralized Vein.
	33.3	12.4	NTW	GRD	985.2	672	2.81	3.2	Pyrite, Sphalerite, and Galena Mineralized Vein.
	35.79	9.1	NTW	GRD	744	524.3	2.89	3.4	Pyrite, Sphalerite, and Galena Mineralized Vein.
	40.84	14.4	NTW	GRD	1350.7	984.6	3.32	3.7	Pyrite, Sphalerite, and Galena Mineralized Vein.
	55.7	14.6	NTW	FEL	939.5	590.3	2.28	2.7	Quartz-Feldspar Porphyry Dyke
	60.07	12.8	NTW	GRD	1172.5	907.5	3.24	4.4	Pyrite, Sphalerite, and Galena Mineralized Vein.
	84.95	20.6	NTW	GRD	1376.5	876.6	2.36	2.8	Fine grained granodiorite
	227.08	17.75	NTW	GRD	1152	741.6	2.3	2.8	medium grained GRD
	261.25	20.2	NTW	GRD	1383.6	889.9	2.42	2.8	med grained grd

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
-99.00	-99.00	0.00	-?-	--	delete me							
0.00	0.90	0.90	CAS	--	casing							
0.90	2.50	1.60	OVB	--	overburden							
2.50	12.19	9.69	FLR	--	brown oxidized fault rock, clay altered granodiorite, intensely sheared.							
						LT	BN					
12.19	16.26	4.07	FLR	--	light grey-blue gouge/fault breccia							
						LT	BN					
						LT	BL					
16.26	18.15	1.89	GRD	FG	fine grained, unaltered, massive GRD							
18.15	19.14	0.99	GRD	FG	alteration envelope around small, weakly mineralized vein and small fault interval at 19m. Minor to trace disseminated Py, generally focused around 19m.							
											Py	1
19.14	27.55	8.41	GRD	FG	fractured unaltered GRD. Rubbly at points. Minor calcite veinlets.							
27.55	28.42	0.87	GRD	FG	altered interval around minor carbonate-qtz veinlets with few percent sulphides, mostly py, trace sphal.							
											Sp	0.5
											Py	1
28.42	33.10	4.68	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures							
33.10	33.30	0.20	GRD	FG	altered envelope around vein. Trace Py.							
											Py	1
33.30	33.40	0.10	VEN	--	Carbonate concentrated on outside of vein, quartz in central portion, sulphides generally concentrated in the quartz. Dominantly fine grained py and Aspy, minor sphal, trace gal. vein looks to be ~45 deg TCA. True width looks to be 8cm, but disseminated py and fracturing of vein walls make it hard to determine exactly.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	2
											Py	15
											As	15
											Sp	3
33.40	35.33	1.93	GRD	FG	broken grd, alteration around some small veinlets, alteration occurring in bands sometimes. Alteration appears to crosscut itsself, following multiple fracture orientations sometimes overprinting, sometimes alteration bleeding equally from various intersecting fractures. Disseminated py, and in veinlets							
											Py	1
35.33	35.70	0.37	VEN	--	broken and multiple mineralized veinlets. Generally 45deg TCA. Decent mineralization in small veinlets, generally coarser Py. Some dark grey, very fine grained sulphides(?) along some vein margins. Py disseminated throughout altered GRD.							
											Un	1
											Py	2
											Py	2
35.70	36.15	0.45	VEN	--	well mineralized veins with some altered host rock in between. ~equal parts Py, Spah, Aspy, minor Gal. all sulphides generally fine grained to very fine grained. Some dark grey sulphides(?) (Gal?) near edges, but too fine grained to identify							
											Py	10
											As	10
											Sp	10
											Gn	2
36.15	40.06	3.91	GRD	FG	same as general lith							
											Py	0.5
40.06	40.10	0.04	VEN	--	Coarser grained Py,Gal, Sphal. Minor qtz. 2.5cm true width							
											Sp	20
											Py	30
											Gn	30
40.10	40.56	0.46	GRD	FG	altered grd, disseminated py, abundant veinlets of sulphides throughout							
											Py	5
											As	3
											Gn	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Sp	2
40.56	40.69	0.13	VEN	--	10cm true width. Gal, Sphal, Aspy, Py. Generally fine grained sulphides, minor qtz-carb.							
											Py	3
											As	5
											Sp	6
											Gn	10
40.69	40.84	0.15	GRD	FG	altered grd, disseminated pyrite							
											Py	1
40.84	40.96	0.12	VEN	--	well mineralized vein, coarser sulphides, Py, Sphal, Aspy, Gal. white carbonate with mottled black in it, fine grained gal or aspy maybe?							
											Py	55
											Sp	5
											As	5
											Gn	3
40.96	42.54	1.58	GRD	FG	altered grd, disseminated py, small 1.5cm vein at 61.68m, scm veinlet at 41.88m. Both contain coarser grained sulphides. Equal parts gal, sphal, and Py							
											Py	1
											Gn	1
											Sp	1
42.54	42.58	0.04	VEN	--	Fine grained sulphide vein, Aspy and Py. Minor qtz and carboante. Py generally on edges of vein, Aspy towards center. True width of 3cm. Vein at 45 deg TCA							
											Sp	2
											As	30
											Py	25
42.58	43.78	1.20	GRD	FG	fine grained GRD, common sulphide stringers. Especially near bottom of interval							
											Py	1
											Sp	1
43.78	43.82	0.04	VEN	--	quartz carbonate Py Aspy Sphal veinlet, sulphides on outside. Aspy fine grained, other sulphides less so							
											Py	15
											As	10
											Sp	3
43.82	45.10	1.28	GRD	FG	altered grd, minor sulphide stringers and disseminated py							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.1
45.10	45.16	0.06	VEN	--	Banded Sphal, Py, and Aspy, roughly equal quantities, with carbonate and qtz. Aspy fine grained, others ulphides not so much							
											Sp	15
											As	15
											Py	15
45.16	46.22	1.06	GRD	FG	altered grd, common pyrite disseminated around small stringer veins.							
											Py	1
46.22	46.29	0.07	VEN	--	carbonate vein with minor Py and Sphal, and some qtz. Sulphides are coarse grained							
											Py	5
											Sp	3
46.29	46.50	0.21	GRD	FG	altered grd, trace disseminated Py around stringers. End of vein zone							
											Py	0.5
46.50	52.10	5.60	GRD	FG	same as general lith							
52.10	52.85	0.75	GRD	FG	Weakly bleached around small veinlet at 52.30, stringers of py with dissemninated py halos around small veinlet.							
											Py	1
52.85	58.15	5.30	-?-	FG	same as general lith							
58.15	60.02	1.87	GRD	FG	pervasive weak to mod alteration due to proximity to dyke above and vein below. Small veinlets at 58.4m, 58.6m, and 59.1m with disseminated pyrite in alteration halo.							
						MD	GY		CLY	2I	Py	1
						LT	GN					
60.02	60.26	0.24	VEN	--	vein dominantly massive fine grained Py-Aspy, with minor Sphal and Gal. Qtz-carbonate ~20%, mostly concentrated at vein walls.							
											Py	40
											As	25
											Sp	8
											Gn	7
60.26	60.96	0.70	GRD	FG	altered grd, vein halo material, some disseminated py and aspy							
											As	1
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
60.96	60.99	0.03	VEN	--	fractured vein, mostly py, gal, sphal, some aspy							
											Gn	20
											Sp	20
											As	10
											Py	40
60.99	62.33	1.34	GRD	FG	altered grd, small rhodochrosite veinlet at 61.20. disseminated py thoughout.							
											Py	1
62.33	62.41	0.08	FLT	--	faulted vein, or veined fault? Walls of interval are rhodochrosite veins, interior is brecciated/intensly cracked altered host rock. Disseminated py thoughout and around							
											Py	1
62.41	71.59	9.18	GRD	FG	mottled section of altered and unaltered grd, carboante-qtz-chlorite veinlets with small but pronounced clay-chlorite alteration halos. Minor sulphides associated with veinlets, both trace vein hosted and disseminated in halo. Minor shear at 65m.							
											Py	1
											Py	1
71.59	71.66	0.07	VEN	--	small rhodochrosite-carbonate-qtz vein/veinlet with ~1cm band of py-spah in middle							
											Sp	3
											Py	10
71.66	75.00	3.34	GRD	FG	unaltered grd							
75.00	76.50	1.50	FLR	--	faulted, rubble moderatley clay altered grd.							
									CLY	2I		
76.50	89.00	12.50	GRD	FG	generally unaltered grd. Common small qtz-carbonate veinlets, generally 30 deg TCA. Small 5cm interval of gouge at 78.3, minor fracture fill py ~15cm to either side. Occaisonal 5mm xenoliths(?), of chlorite-chalcopyrite around 77.3m							
						MD	GY	CR	CHL	2I	Py	0.1
						MD	GN					
89.00	90.00	1.00	GRD	FG	bleached alteration halo around small fracutre filled with 2mm of dark grey gouge. Patchy pyrite flooding (locally intensly disseminated) around small fractures around central gougy bit.							
											Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
90.00	97.82	7.82	GRD	FG	unaltered GRD. Reasonably competent. Minor small qtz carbonate chlorite fractures							
97.82	97.90	0.08	GRD	FG	altered grd around mineralized veinlet. Disseminated py							
											Py	2
97.90	97.96	0.06	VEN	--	carbonate-qtz sulphide vein. 10% Py, 10% Aspy, 2% Sphal, 1% Gal. Aspy fine grained and concentrated on outside of vein. 4.5cm true width							
											Sp	2
											As	10
											Py	10
											Gn	1
97.96	99.42	1.46	GRD	FG	Altered GRD around minor faults, 98.5m and 99m. Desseminated Py thoughout, locally disseminated/flooding in a patchy way around fractures, forming discontinuous bands trending 40-70 deg TCA							
											Py	2
99.42	106.70	7.28	GRD	FG	Generally unaltered GRD. Small interval of moderate alteration around calcite veining at 104.2m							
											Py	0.5
106.70	107.21	0.51	FLR	--	green grey and grey fault breccia and gouge with clasts of host rock and minor vein material, pyrite disseminated thougout, galina visible in vein clasts							
											Py	2
											Gn	0.5
107.21	107.43	0.22	GRD	FG	altered grd around fault. Disseminated Py.							
											Py	1
107.43	123.73	16.30	GRD	FG	fractured granodiorite with chaotic carbonate veins throughout. Crackled texture.							
123.73	123.91	0.18	GRD	FG	clay/sericite altered around vein. Trace disseminated py							
											Py	0.5
123.91	124.13	0.22	VEN	--	fractured/sheared vein and altered host rock. Quartz-sulphide-carboante. 45 deg TCA. Sulphides minor, ~10% of interval, mostly Py							
											Sp	1
											As	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	3
											Gn	3
124.13	125.30	1.17	GRD	FG	clay-sericite altered, locally fractured/sheared with disseminated py near to vein, decreasing towards bottom of interval							
											Py	1
125.30	145.00	19.70	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures							
145.00	147.10	2.10	FLR	--	same as above, but more gougy and sheared, 10cm of dominantly gouge at 144.7m.							
147.10	163.70	16.60	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures							
163.70	165.90	2.20	GRD	FG	same as general lith							
165.90	168.65	2.75	GRD	FG	rubbly and fractured GRD. Itervals of FBX>GOU between 166-166.9m.							
168.65	169.10	0.45	GRD	FG	altered GRD, Disseminate Py and Aspy							
169.10	169.18	0.08	VEN	--	two small bands of Sphal>Gal in altered host rock. Disseminated Py throughout. No quartz or Carbonate							
											Sp	5
											Gn	5
											Py	3
169.18	169.35	0.17	GRD	FG	altered GRD, locally gougy and dissemianted Py							
169.35	174.25	4.90	GRD	FG	rubbly and fractured fg GRD							
174.25	174.85	0.60	GRD	FG	sheeted veinlets at ~60 deg TCA. Small alteration halos around with localized disseminated Py. Both ends of interval locally brecciated/rubbly							
											Py	1
174.85	179.90	5.05	GRD	FG	crackled fg GRD, carboanate infill common in fractures							
179.90	201.44	21.54	GRD	MG	same as general lith.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
201.44	201.81	0.37	GRD	MG	clay and chlorite altered, pale green grey, disseminated Py more abundant closer to vein.							
											Py	1
											--	0
201.81	201.87	0.06	VEN	--	small banded vein, pyrite in elongate clumps thoughout vein following discontinuous bands.							
											Py	8
201.87	202.08	0.21	GRD	MG	alteration around vein. Disseminated py, same as on other side of vein							
202.08	204.13	2.05	GRD	MG	same as general lith							
204.13	204.14	0.01	APL	VF	small red-brown aplite veinlet							
204.14	205.25	1.11	GRD	MG	same as general lith							
205.25	205.30	0.05	GRD	MG	generally altered grd same as general lith							
205.30	205.31	0.01	APL	VF	small aplite vein, red-brown							
205.31	205.98	0.67	GRD	MG	altered grd same as general lith but with diseminated py around vein							
											Py	1
205.98	206.17	0.19	VEN	--	poorly mineralized fractured qtz-carbonate vein with minor Py and trace Gal. minor vein hosted smectite.							
											Py	1
											Gn	0.5
206.17	208.29	2.12	GRD	MG	locally brecciated thoughout this interval, fault breccia > gouge. Most brecciated immediately below vein. Disseminated Py throughout, minor							
											Py	0.5
208.29	214.60	6.31	GRD	MG	same as general lith							
214.60	214.70	0.10	FLR	--	fault breccia ~10% gouge							
214.70	225.77	11.07	GRD	MG	same as general lith more competent than interval above							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
225.77	234.42	8.65	GRD	MG	minor low angle carboante chlorite infilled fractures, pervasive weak propylitic alteration.							
234.42	234.50	0.08	GRD	MG	alteration halo around minor sheared interval. Weak clay alteration / bleaching increasing towards sheared interval.							
234.50	234.83	0.33	GRD	MG	sheared moderately altered GRD with disseminated py. Small 2mm interval of dark grey gouge at 234.56m							
234.83	239.77	4.94	GRD	MG	unaltered GRD. Small bancs of epidote alteration sometimes associated with trace disseminated Py. Small py stringer at 236.20m.							
239.77	239.96	0.19	GRD	MG	alteration around vein/shear below. Minor disseminated Aspy.							
											As	1
239.96	240.03	0.07	VEN	--	Py-Gal-Sphal in altered shear/vein. Small sections of mm scale dark green grey gouge on either side of vein.							
											Py	10
											Gn	6
											Sp	3
240.03	240.43	0.40	GRD	MG	alteration around vein above. Diss Py and Aspy							
											Py	1
											As	0.5
240.43	263.65	23.22	GRD	MG	massive generally unaltered GRD. Small bands of trace to weak epidote alteration, sometimes potassic alteration, sometimes associated with trace disseminated Py and rare Cpy							
											Cp	0.1
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
-99.00	-99.00	0.00	-?-	GRD	--	-
	-99.00	0.00	-?-	GRDF	--	delete me
0.00	0.90	0.90	CAS	OVB	--	casing
0.90	2.50	1.60	OVB	OVB	--	overburden
2.50	12.19	9.69	FLR	FLT	--	brown oxidized fault rock, clay altered granodiorite, intensely sheared.
12.19	16.26	4.07	FLR	FLT	--	light grey-blue gouge/fault breccia
16.26	18.15	1.89	GRD	GRD	FG	fine grained, unaltered, massive GRD
18.15	19.14	0.99	GRD	GRD	FG	alteration envelope around small, weakly mineralized vein and small fault interval at 19m. Minor to trace disseminated Py, generally focused around 19m.
19.14	27.55	8.41	GRD	GRD	FG	fractured unaltered GRD. Rubbly at points. Minor calcite veinlets.
27.55	28.42	0.87	GRD	GRD	FG	altered interval around minor carbonate-qtz veinlets with few percent sulphides, mostly py, trace sphal.
28.42	33.10	4.68	GRD	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures
33.10	33.30	0.20	GRD	GRD	FG	altered envelope around vein. Trace Py.
33.30	33.40	0.10	VEN	GRDS	--	Carbonate concentrated on outside of vein, quartz in central portion, sulphides generally concentrated in the quartz. Dominantly fine grained py and Aspy, minor sphal, trace gal. vein looks to be ~45 deg TCA. True width looks to be 8cm, but disseminated py and fracturing of vein walls make it hard to determine exactly.
33.40	35.33	1.93	GRD	GRDS	FG	broken grd, alteration around some small veinlets, alteration occurring in bands sometimes. Alteration appears to crosscut itsself, following multiple fracture orientations sometimes overprinting, sometimes alteration bleeding equally from various intersecting fractures. Disseminated py, and in veinlets
35.33	35.70	0.37	VEN	GRDS	--	broken and multiple mineralized veinlets. Generally 45deg TCA. Decent mineralization in small veinlets, generally coarser Py. Some dark grey, very fine grained sulphides(?) along some vein margins. Py disseminated throughout altered GRD.
35.70	36.15	0.45	VEN	GRDS	--	well mineralized veins with some altered host rock in between. ~equal parts Py, Spah, Aspy, minor Gal. all sulphides generally fine grained to very fine grained. Some dark grey sulphides(?) (Gal?) near edges, but too fine grained to identify
36.15	40.06	3.91	GRD	GRDS	FG	same as general lith
40.06	40.10	0.04	VEN	GRDS	--	Coarser grained Py,Gal, Sphal. Minor qtz. 2.5cm true width
40.10	40.56	0.46	GRD	GRDS	FG	altered grd, disseminated py, abundant veinlets of sulphides throughout

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
40.56	40.69	0.13	VEN	GRDS	--	10cm true width. Gal, Sphal, Aspy, Py. Generally fine grained sulphides, minor qtz-carb.
40.69	40.84	0.15	GRD	GRDS	FG	altered grd, disseminated pyrite
40.84	40.96	0.12	VEN	GRDS	--	well mineralized vein, coarser sulphides, Py, Sphal, Aspy, Gal. white carbonate with mottled black in it, fine grained gal or aspy maybe?
40.96	42.54	1.58	GRD	GRDS	FG	altered grd, disseminated py, small 1.5cm vein at 61.68m, scm veinlet at 41.88m. Both contain coarser grained sulphides. Equal parts gal, sphal, and Py
42.54	42.58	0.04	VEN	GRDS	--	Fine grained sulphide vein, Aspy and Py. Minor qtz and carboante. Py generally on edges of vein, Aspy towards center. True width of 3cm. Vein at 45 deg TCA
42.58	43.78	1.20	GRD	GRDS	FG	fine grained GRD, common sulphide stringers. Especially near bottom of interval
43.78	43.82	0.04	VEN	GRDS	--	quartz carbonate Py Aspy Sphal veinlet, sulphides on outside. Aspy fine grained, other sulphides less so
43.82	45.10	1.28	GRD	GRDS	FG	altered grd, minor sulphide stringers and disseminated py
45.10	45.16	0.06	VEN	GRDS	--	Banded Sphal, Py, and Aspy, roughly equal quantities, with carbonate and qtz. Aspy fine grained, others ulphides not so much
45.16	46.22	1.06	GRD	GRDS	FG	altered grd, common pyrite disseminated around small stringer veins.
46.22	46.29	0.07	VEN	GRDS	--	carbonate vein with minor Py and Sphal, and some qtz. Sulphides are coarse grained
46.29	46.50	0.21	GRD	GRDS	FG	altered grd, trace disseminated Py around stringers. End of vein zone
46.50	52.10	5.60	GRD	GRD	FG	same as general lith
52.10	52.85	0.75	GRD	GRD	FG	Weakly bleached around small veinlet at 52.30, stringers of py with dissemninated py halos around small veinlet.
52.85	58.15	5.30	-?-	DYK	FG	same as general lith
58.15	60.02	1.87	GRD	GRD	FG	pervasive weak to mod alteration due to proximity to dyke above and vein below. Small veinlets at 58.4m, 58.6m, and 59.1m with disseminated pyrite in alteration halo.
60.02	60.26	0.24	VEN	GRD	--	vein dominantly massive fine grained Py-Aspy, with minor Sphal and Gal. Qtz-carbonate ~20%, mostly concentrated at vein walls.
60.26	60.96	0.70	GRD	GRD	FG	altered grd, vein halo material, some disseminated py and aspy
60.96	60.99	0.03	VEN	GRD	--	fractured vein, mostly py, gal, sphal, some aspy
60.99	62.33	1.34	GRD	GRD	FG	altered grd, small rhodochrosite veinlet at 61.20. disseminated py thoughout.
62.33	62.41	0.08	FLT	GRD	--	faulted vein, or veined fault? Walls of interval are rhodochrosite veins, interior is brecciated/intensly cracked altered host rock. Disseminated py thoughout and around
62.41	71.59	9.18	GRD	GRD	FG	mottled section of altered and unaltered grd, carboante-qtz-chlorite veinlets with small but pronounced clay-chlorite alteration halos. Minor sulphides associated with veinlets, both trace vein hosted and disseminated in halo. Minor shear at 65m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
71.59	71.66	0.07	VEN	GRD	--	small rhodochrosite-carbonate-qtz vein/veinlet with ~1cm band of py-spah in middle
71.66	75.00	3.34	GRD	GRD	FG	unaltered grd
75.00	76.50	1.50	FLR	GRD	--	faulted, rubble moderatley clay altered grd.
76.50	89.00	12.50	GRD	GRD	FG	generally unaltered grd. Common small qtz-carbonate veinlets, generally 30 deg TCA. Small 5cm interval of gouge at 78.3, minor fracture fill py ~15cm to either side. Occaisonal 5mm xenoliths(?), of chlorite-chalcopyrite around 77.3m
89.00	90.00	1.00	GRD	GRD	FG	bleached alteration halo around small fracutre filled with 2mm of dark grey gouge. Patchy pyrite flooding (locally intensly disseminated) around small fractures around central gougy bit.
90.00	97.82	7.82	GRD	GRD	FG	unaltered GRD. Reasonably competent. Minor small qtz carbonate chlorite fractures
97.82	97.90	0.08	GRD	GRD	FG	altered grd around mineralized veinlet. Disseminated py
97.90	97.96	0.06	VEN	GRD	--	carbonate-qtz sulphide vein. 10% Py, 10% Aspy, 2% Sphal, 1% Gal. Aspy fine grained and concentrated on outside of vein. 4.5cm true width
97.96	99.42	1.46	GRD	GRD	FG	Altered GRD around minor faults, 98.5m and 99m. Desseminated Py thoughout, locally disseminated/flooding in a patchy way around fractures, forming discontinuous bands trending 40-70 deg TCA
99.42	106.70	7.28	GRD	GRD	FG	Generally unaltered GRD. Small interval of moderate alteration around calcite veining at 104.2m
106.70	107.21	0.51	FLR	GRD	--	green grey and grey fault breccia and gouge with clasts of host rock and minor vein material, pyrite disseminated thougout, galina visible in vein clasts
107.21	107.43	0.22	GRD	GRD	FG	altered grd around fault. Disseminated Py.
107.43	123.73	16.30	GRD	GRD	FG	fractured granodiorite with chaotic carbonate veins throughout. Crackled texture.
123.73	123.91	0.18	GRD	GRD	FG	clay/sericite altered around vein. Trace disseminated py
123.91	124.13	0.22	VEN	GRD	--	fractured/sheared vein and altered host rock. Quartz-sulphide-carboante. 45 deg TCA. Sulphides minor, ~10% of interval, mostly Py
124.13	125.30	1.17	GRD	GRD	FG	clay-sericite altered, locally fractured/sheared with disseminated py near to vein, decreasing towards bottom of interval
125.30	145.00	19.70	GRD	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures
145.00	147.10	2.10	FLR	GRD	--	same as above, but more gougy and sheared, 10cm of dominantly gouge at 144.7m.
147.10	163.70	16.60	GRD	GRD	FG	fractured granodiorite, locally rubbly or strained. Minor calcite-chlorite infill in fractures
163.70	165.90	2.20	GRD	GRD	FG	same as general lith
165.90	168.65	2.75	GRD	GRDF	FG	rubbly and fractured GRD. Itervals of FBX>GOU between 166-166.9m.
168.65	169.10	0.45	GRD	GRDF	FG	altered GRD, Disseminate Py and Aspy

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
169.10	169.18	0.08	VEN	GRDF	--	two small bands of Sphal>Gal in altered host rock. Disseminated Py throughout. No quartz or Carbonate
169.18	169.35	0.17	GRD	GRDF	FG	altered GRD, locally gougy and dissemianted Py
169.35	174.25	4.90	GRD	GRDF	FG	rubbly and fractured fg GRD
174.25	174.85	0.60	GRD	GRDF	FG	sheeted veinlets at ~60 deg TCA. Small alteration halos around with localized disseminated Py. Both ends of interval locally brecciated/rubbly
174.85	179.90	5.05	GRD	GRDF	FG	crackled fg GRD, carboanate infill common in fractures
179.90	201.44	21.54	GRD	GRD	MG	same as general lith.
201.44	201.81	0.37	GRD	GRDA	MG	clay and chlorite altered, pale green grey, disseminated Py more abundant closer to vein.
201.81	201.87	0.06	VEN	GRDA	--	small banded vein, pyrite in elongate clumps thoughout vein following discontinuous bands.
201.87	202.08	0.21	GRD	GRDA	MG	alteration around vein. Disseminated py, same as on other side of vein
202.08	204.13	2.05	GRD	GRD	MG	same as general lith
204.13	204.14	0.01	APL	GRD	VF	small red-brown aplite veinlet
204.14	205.25	1.11	GRD	GRD	MG	same as general lith
205.25	205.30	0.05	GRD	GRDA	MG	generally altered grd same as general lith
205.30	205.31	0.01	APL	GRDA	VF	small aplite vein, red-brown
205.31	205.98	0.67	GRD	GRDA	MG	altered grd same as general lith but with diseminated py around vein
205.98	206.17	0.19	VEN	GRDA	--	poorly mineralized fractured qtz-carbonate vein with minor Py and trace Gal. minor vein hosted smectite.
206.17	208.29	2.12	GRD	GRDA	MG	locally brecciated thoughout this interval, fault breccia > gouge. Most brecciated immediately below vein. Disseminated Py throughout, minor
208.29	214.60	6.31	GRD	GRD	MG	same as general lith
214.60	214.70	0.10	FLR	GRD	--	fault breccia ~10% gouge
214.70	225.77	11.07	GRD	GRD	MG	same as general lith more competent than interval above
225.77	234.42	8.65	GRD	GRD	MG	minor low angle carboante chlorite infilled fractures, pervasive weak propylitic alteration.
234.42	234.50	0.08	GRD	GRD	MG	alteration halo around minor sheared interval. Weak clay alteration / bleaching increasing towards sheared interval.
234.50	234.83	0.33	GRD	GRD	MG	sheared moderately altered GRD with disseminated py. Small 2mm interval of dark grey gouge at 234.56m

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
234.83	239.77	4.94	GRD	GRD	MG	unaltered GRD. Small bancs of epidote alteration sometimes associated with trace disseminated Py. Small py stringer at 236.20m.
239.77	239.96	0.19	GRD	GRD	MG	alteration around vein/shear below. Minor disseminated Aspy.
239.96	240.03	0.07	VEN	GRD	--	Py-Gal-Sphal in altered shear/vein. Small sections of mm scale dark green grey gouge on either side of vein.
240.03	240.43	0.40	GRD	GRD	MG	alteration around vein above. Diss Py and Aspy
240.43	263.65	23.22	GRD	GRD	MG	massive generally unaltered GRD. Small bands of trace to weak epidote alteration, sometimes potassic alteration, sometimes associated with trace disseminated Py and rare Cpy

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From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.90	0.90	CAS	--	casing							
0.90	2.50	1.60	OVB	--	overburden							
2.50	16.26	13.76	FLR	--	Intensely faulted and sheared rock. Oxidized near surface but changing to unaltered at ~12m. Some intervals with huge loss. Some carbonate vein clasts in fault material, no mineralization observed.							
						LT	GY	FR	CLY	4I		
						LT	BN	RB				
								SH				
16.26	33.30	17.04	GRD	FG	locally altered around very minor faults or poorly mineralized veinlets							
						MD	GY	BN	CLY	1I	Py	0.1
33.30	46.50	13.20	GRD	FG	Broken granodiorite with alteration envelopes aroung mineralized veins. Generally observing disseminated py in alteration halos.							
											Sp	1
						MD	GY	BN	CLY	3I	Py	2
						LT	GY				Gn	1
						LT	GN				As	2
46.50	52.85	6.35	GRD	FG	fine grained GRD.							
						MD	GY	MA	CLY	1I	Py	0.5
								FR	CHL	1I		
52.85	58.15	5.30	FEL	FG	Feldspar Porphyry felsic dyke, minor quartz phenocrysts (maybe qtz filled vessicles?) and small phenocrysts of muscovite. Feldspars weakly altered to chlorite-clay, clay dominant alteration type near center of dyle, chlorite near edges. Minor oxidized fractues with clay around small shear (3cm) at 56.4m.							
						LT	GY	MA	CLY	2I		
						LT	GN	PO	CHL	1I		
						LT	BF					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
58.15	125.30	67.15	GRD	FG	Dominantly fractured, fine grained, medium grey-light green, granodiorite with intermittent well mineralized veins and small faulted/sheared/strained intervals, and associated occasionally weakly mineralized, bleached/clay altered envelopes. Nice 24cm vein at 60.02-60.26m.							
						MD	GY	FR	CLY	2I	Py	0.5
						LT	GN		CHL	2I	Gn	0.5
											As	0.5
											Sp	0.5
125.30	163.70	38.40	GRD	FG	Dominantly fractured unaltered unmineralized GRD. No mineralized veins.							
								SN				
								PA				
								SN				
						MD	GY	CR				
163.70	165.90	2.20	GRD	FG	competent GRD, fine grained,							
									PRO	1I		
						MD	GY	MA	CLY	1I		
165.90	179.90	14.00	GRD	FG	rubbly and fractured GRD. Chlorite in fracture fill. Minor mineralization at 169.15m, 174.5m.							
											Py	0.5
						MD	GY	BN	CLY	2I	Sp	0.5
								RB			Gn	0.5
179.90	201.44	21.54	GRD	MG	Medium grained GRD. Blocky. Minor carbonate infilled fractures. Minor patchy epidote alteration around some fractures.							
						MD	GY	FR	PRO	1I		
						MD	GN	MA				
201.44	202.08	0.64	GRD	MG	alteration envelope around small quartz-carb-py vein.							
						LT	BF		PRO	1I		
						LT	GY	EN	CHL	2I	Py	2
						LT	GN		CLY	2I	As	1
202.08	205.25	3.17	GRD	MG	blocky, unaltered GRD, minor carbonates in fractures. Small red-brown aplite veinlet ~1cm at 204.14							
						MD	GY					
						MD	GN	MA	PRO	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
205.25	208.29	3.04	GRD	MG	moderately altered around weakly mineralized vein at 206 and several minor intervals of fault breccia below vein.							
						LT	GN	BN	CLY	2I	Py	0.5
						LT	GY	CR	CHL	1I	Gn	0.1
								EN				
208.29	225.77	17.48	GRD	MG	broken and blocky dominantly unaltered grd. Small 10cm section of fault breccia > gouge at 215.6m. Common calcite between fracture surfaces							
						MD	GN	FR	PRO	1I		
						MD	GY	BN	CHL	1I		
225.77	263.65	37.88	GRD	FG	Dominantly unaltered competent GRD. Small areas of poor sulphide mineralization at 234.50-234.83m (33cm diss Py), and 239.96-234.03m (7cm small band Py-Gal-Sphal)							
						DK	GN	MA	PRO	2I	Py	0.5
											Sp	0.1
						MD	GY		ARG	1I	Gn	0.1

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.90	0.90	0	0	0.00	0	--	--	--	
0.90	1.52	0.62	0.47	76	0.00	0	--	1H	5W	
1.52	3.05	1.53	0.93	61	0.17	11	--	1H	4W	
3.05	4.57	1.52	1.13	74	0.00	0	--	1H	4W	
4.57	6.10	1.53	1.21	79	0.00	0	--	1H	4W	
6.10	7.62	1.52	1.26	83	0.00	0	--	1H	4W	
7.62	9.14	1.52	1.13	74	0.00	0	--	1H	4W	
9.14	10.67	1.53	0.98	64	0.00	0	--	1H	4W	
10.67	12.19	1.52	0.15	10	0.00	0	--	2H	4W	
12.19	13.72	1.53	0.43	28	0.00	0	--	1H	2W	
13.72	15.24	1.52	1.25	82	0.00	0	--	1H	2W	
15.24	16.76	1.52	1.01	66	0.00	0	--	1H	1W	
16.76	18.29	1.53	1.51	99	0.82	54	--	4H	1W	
18.29	21.34	3.05	3.03	99	0.94	31	--	4H	1W	
21.34	22.86	1.52	1.36	89	0.44	29	--	4H	1W	
22.86	25.91	3.05	3.05	100	0.84	28	--	4H	1W	
25.91	28.96	3.05	3.05	100	1.43	47	--	3H	1W	
28.96	32.00	3.04	3	99	0.94	31	--	4H	1W	
32.00	35.05	3.05	3.05	100	1.40	46	--	3H	1W	
35.05	38.10	3.05	3.05	100	1.03	34	--	2H	1W	
38.10	41.15	3.05	3.02	99	0.75	25	--	3H	1W	
41.15	44.20	3.05	3.05	100	1.81	59	--	3H	1W	
44.20	47.24	3.04	3.04	100	1.28	42	--	2H	1W	
47.24	50.29	3.05	2.98	98	2.29	75	--	4H	1W	
50.29	53.34	3.05	3.04	100	1.94	64	--	2H	1W	
53.34	56.39	3.05	3.05	100	2.10	69	--	4H	1W	
56.39	57.91	1.52	1.52	100	0.57	38	--	4H	1W	
57.91	60.96	3.05	3.05	100	1.45	48	--	2H	1W	
60.96	64.01	3.05	2.94	96	0.42	14	--	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
64.01	67.06	3.05	3.05	100	2.11	69	--	4H	1W	6cm of gouge
67.06	68.58	1.52	1.52	100	0.81	53	--	3H	1W	
68.58	70.10	1.52	1.52	100	0.99	65	--	4H	1W	
70.10	73.15	3.05	3.05	100	1.29	42	--	4H	1W	
73.15	76.20	3.05	3	98	1.25	41	--	1H	1W	
76.20	77.72	1.52	1.52	100	0.33	22	--	1H	1W	
77.72	80.77	3.05	2.97	97	1.79	59	--	3H	1W	
80.77	82.30	1.53	1.53	100	1.26	82	--	4H	1W	
82.30	85.34	3.04	3.04	100	2.66	88	--	4H	1W	
85.34	88.39	3.05	3.04	100	2.15	70	--	4H	1W	
88.39	91.44	3.05	2.84	93	1.61	53	--	3H	1W	
91.44	94.49	3.05	3.05	100	2.58	85	--	4H	1W	
94.49	96.01	1.52	1.47	97	1.05	69	--	4H	1W	
96.01	99.06	3.05	3.05	100	1.79	59	--	2H	1W	
99.06	102.11	3.05	3.05	100	2.43	80	--	3H	1W	
102.11	105.16	3.05	2.97	97	2.64	87	--	4H	1W	
105.16	106.68	1.52	1.49	98	0.15	10	--	4H	1W	
106.68	109.73	3.05	3.05	100	1.45	48	--	2H	1W	
109.73	112.78	3.05	3.03	99	1.45	48	--	4H	1W	
112.78	114.30	1.52	1.52	100	1.08	71	--	4H	1W	
114.30	117.35	3.05	3.05	100	1.38	45	--	4H	1W	
117.35	120.40	3.05	3.05	100	1.19	39	--	4H	1W	
120.40	123.44	3.04	3.01	99	1.30	43	--	4H	1W	
123.44	126.49	3.05	2.96	97	1.11	36	--	1H	1W	
126.49	129.54	3.05	2.91	95	1.64	54	--	2H	1W	
129.54	132.59	3.05	3.05	100	1.08	35	--	1H	1W	
132.59	135.64	3.05	3.05	100	1.55	51	--	3H	1W	
135.64	138.68	3.04	2.95	97	1.48	49	--	3H	1W	
138.68	141.73	3.05	3.05	100	2.17	71	--	4H	1W	15cm of fault gouge
141.73	144.78	3.05	3.05	100	1.49	49	--	1H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
144.78	147.22	2.44	2.44	100	0.20	8	--	1H	1W	Blocking changed for this interval from 475ft to 483ft
147.22	149.35	2.13	2.09	98	0.39	18	--	1H	1W	
149.35	152.40	3.05	3	98	2.18	71	--	3H	1W	
152.40	154.65	2.25	2.25	100	1.23	55	--	4H	1W	Blocking interval changed from 500ft to 507.5 ft
154.65	156.97	2.32	2.25	97	0.91	39	--	4H	1W	
156.97	160.02	3.05	3.05	100	1.23	40	--	4H	1W	
160.02	163.07	3.05	3.05	100	1.21	40	--	4H	1W	
163.07	166.12	3.05	3.05	100	1.90	62	--	1H	1W	27cm of gouge
166.12	168.90	2.78	1.98	71	0.00	0	--	4H	1W	
168.90	170.69	1.79	1.77	99	0.00	0	--	2H	1W	
170.69	173.74	3.05	2.72	89	1.40	46	--	3H	1W	
173.74	176.78	3.04	2.66	88	1.15	38	--	3H	1W	
176.78	179.83	3.05	2.73	90	1.49	49	--	3H	1W	
179.83	182.88	3.05	2.78	91	1.20	39	--	4H	1W	
182.88	188.98	6.10	5.5	90	2.95	48	--	3H	1W	
188.98	192.02	3.04	2.73	90	1.54	51	--	4H	1W	
192.02	195.07	3.05	2.53	83	0.63	21	--	3H	1W	
195.07	198.12	3.05	2.41	79	0.18	6	--	3H	1W	
198.12	199.64	1.52	1.21	80	0.52	34	--	3H	1W	
199.64	202.69	3.05	2.95	97	1.82	60	--	4H	1W	
202.69	205.74	3.05	2.9	95	2.40	79	--	4H	1W	
205.74	208.79	3.05	2.69	88	0.93	30	--	3H	1W	
208.79	210.31	1.52	1.52	100	0.00	0	--	3H	1W	
210.31	211.84	1.53	1.21	79	0.41	27	--	4H	1W	
211.84	214.88	3.04	2.6	86	1.10	36	--	3H	1W	
214.88	217.93	3.05	2.42	79	1.05	34	--	4H	1W	
217.93	220.98	3.05	2.77	91	1.77	58	--	4H	1W	
220.98	224.03	3.05	2.88	94	1.40	46	--	4H	1W	
224.03	227.08	3.05	2.77	91	2.21	72	--	4H	1W	
227.08	230.12	3.04	2.8	92	1.11	37	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
230.12	233.17	3.05	2.93	96	2.10	69	--	3H	1W	
233.17	236.22	3.05	2.8	92	1.64	54	--	3H	1W	
236.22	239.27	3.05	2.98	98	2.68	88	--	4H	1W	Large fractures running sub-parallel tca in this interval x 3 (mostly 1 - 20 degrees)
239.27	242.32	3.05	2.89	95	1.69	55	--	4H	1W	
242.32	245.36	3.04	2.96	97	1.99	65	--	4H	1W	
245.36	248.41	3.05	2.95	97	1.98	65	--	4H	1W	
248.41	251.46	3.05	2.91	95	2.15	70	--	4H	1W	
251.46	254.51	3.05	2.9	95	2.02	66	--	3H	1W	
254.51	257.56	3.05	2.87	94	1.78	58	--	3H	1W	Fracture running sub parallel tca - raninging from 0 - 20 degrees
257.56	260.60	3.04	2.9	95	2.16	71	--	3H	1W	
260.60	263.65	3.05	2.9	95	2.00	66	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	34.57	OVB	
2	0.195	OVB	
3	0.89	FLR	
4	1.24	FLR	
5	0.691	FLR	
6	2.832	FLR	
7	5.357	FLR	
8	1.615	FLR	
9	1.301	FLR	
10	8.71	FLR	
11	9.008	FLR	
12	11.42	FLR	
13	2.979	FLR	
14	3.342	FLR	
15	6.669	FLR	
16	55.54	FLR	
17	54.76	GRD	
18	53.07	GRD	
19	0.693	GRD	
20	9.493	GRD	
21	31.63	GRD	
22	36.22	GRD	
23	31.43	GRD	
24	33.43	GRD	
25	31.64	GRD	
26	21.96	GRD	
27	34.13	GRD	
28	0.627	GRD	
29	31.93	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	24.18	GRD	
31	31.08	GRD	
32	35.72	GRD	
33	30.51	GRD	
34	0.601	GRD	
35	1.534	GRD	
36	0.333	GRD	
37	0.419	GRD	
38	0.28	GRD	
39	0.239	GRD	
40	0.685	GRD	
41	0.362	GRD	
42	0.346	GRD	
43	2.457	GRD	
44	0.391	GRD	
45	0.23	GRD	
46	1.882	GRD	
47	33.63	GRD	
48	34.52	GRD	
49	40.49	GRD	
50	43.34	GRD	
51	38.46	GRD	
52	33.78	GRD	
53	0.394	FEL	
54	0.304	FEL	
55	0.204	FEL	
56	0.368	FEL	
57	0.377	FEL	
58	0.442	FEL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	4.376	GRD	
60	0.809	GRD	
61	0.315	GRD	
62	1.488	GRD	
63	34.5	GRD	
64	34.91	GRD	
65	10.97	GRD	
66	52.89	GRD	
67	42.04	GRD	
68	17.77	GRD	
69	44.44	GRD	
70	42.32	GRD	
71	33.27	GRD	
72	37.21	GRD	
73	43.29	GRD	
74	59.44	GRD	
75	62.66	GRD	
76	43.31	GRD	
77	70.78	GRD	
78	69.3	GRD	
79	38.14	GRD	
80	47.65	GRD	
81	50.72	GRD	
82	34.73	GRD	
83	37.54	GRD	
84	43.47	GRD	
85	51.79	GRD	
86	56.61	GRD	
87	57.22	GRD	
88	60.93	GRD	
89	0.842	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	27.12	GRD	
91	62.37	GRD	
92	49.78	GRD	
93	54.5	GRD	
94	63.25	GRD	
95	47.37	GRD	
96	54.24	GRD	
97	65.09	GRD	
98	0.726	GRD	
99	0.561	GRD	
100	59.57	GRD	
101	48.24	GRD	
102	65.55	GRD	
103	47.73	GRD	
104	0.717	GRD	
105	9.466	GRD	
106	59.76	GRD	
107	1.232	GRD	
108	64.7	GRD	
109	1.205	GRD	
110	53.92	GRD	
111	50.44	GRD	
112	26.06	GRD	
113	57.81	GRD	
114	47.17	GRD	
115	40.53	GRD	
116	50.44	GRD	
117	45.97	GRD	
118	48.21	GRD	
119	48.56	GRD	
120	26.75	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	54.08	GRD	
122	63.89	GRD	
123	59.36	GRD	
124	0.792	GRD	
125	4.022	GRD	
126	37.54	GRD	
127	45.03	GRD	
128	51.09	GRD	
129	58.5	GRD	
130	59.72	GRD	
131	55.48	GRD	
132	53.56	GRD	
133	55.1	GRD	
134	48.89	GRD	
135	47.91	GRD	
136	48.42	GRD	
137	55.97	GRD	
138	32.45	GRD	
139	49.36	GRD	
140	13.87	GRD	
141	24.44	GRD	
142	58.17	GRD	
143	55.13	GRD	
144	59.38	GRD	
145	36.65	GRD	
146	54.77	GRD	
147	45.32	GRD	
148	37.04	GRD	
149	23.96	GRD	
150	49.58	GRD	
151	22.5	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
152	60.34	GRD	
153	52.61	GRD	
154	50.5	GRD	
155	59.92	GRD	
156	61.71	GRD	
157	57.91	GRD	
158	50.3	GRD	
159	47.67	GRD	
160	47.46	GRD	
161	61.75	GRD	
162	57.86	GRD	
163	52.92	GRD	
164	57.16	GRD	
165	22.83	GRD	
166	5.037	GRD	
167	21.53	GRD	
168	35.07	GRD	
169	0.363	GRD	
170	29.15	GRD	
171	34.15	GRD	
172	33.23	GRD	
173	33.23	GRD	
174	39.29	GRD	
175	25.23	GRD	
176	27.75	GRD	
177	43.63	GRD	
178	31.82	GRD	
179	49.48	GRD	
180	45.15	GRD	
181	42.1	GRD	
182	30.67	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	42.86	GRD	
184	49.31	GRD	
185	26.28	GRD	
186	29.77	GRD	
187	33.94	GRD	
188	49.41	GRD	
189	40.43	GRD	
190	43.99	GRD	
191	48.01	GRD	
192	33.05	GRD	
193	29.56	GRD	
194	57.03	GRD	
195	28.24	GRD	
196	68.85	GRD	
197	61.41	GRD	
198	52.12	GRD	
199	66.59	GRD	
200	63.9	GRD	
201	59	GRD	
202	1.525	GRD	
203	46.77	GRD	
204	43.89	GRD	
205	35.45	GRD	
206	0.651	GRD	
207	0.672	GRD	
208	19.01	GRD	
209	28.02	GRD	
210	18.26	GRD	
211	49.37	GRD	
212	42.29	GRD	
213	52.25	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
214	50.13	GRD	
215	57.23	GRD	
216	26.51	GRD	
217	44.55	GRD	
218	40.72	GRD	
219	50.58	GRD	
220	49.64	GRD	
221	45.03	GRD	
222	48.07	GRD	
223	48.68	GRD	
224	51.26	GRD	
225	53.22	GRD	
226	43.12	GRD	
227	41.65	GRD	
228	44.07	GRD	
229	52.95	GRD	
230	53.58	GRD	
231	40.97	GRD	
232	58.77	GRD	
233	61.12	GRD	
234	18.61	GRD	
235	19.29	GRD	
236	50.72	GRD	
237	51.85	GRD	
238	42.33	GRD	
239	45.46	GRD	
240	1.192	GRD	
241	38.21	GRD	
242	45.8	GRD	
243	39.79	GRD	
244	33.76	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
245	39.4	GRD	
246	29.69	GRD	
247	23	GRD	
248	39.89	GRD	
249	31.99	GRD	
250	36.55	GRD	
251	34.63	GRD	
252	30.73	GRD	
253	40.86	GRD	
254	34.83	GRD	
255	36.41	GRD	
256	29.44	GRD	
257	47.4	GRD	
258	45	GRD	
259	35.62	GRD	
260	45.6	GRD	
261	43.07	GRD	
262	35.589	GRD	
263	42.92	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -20-470

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W594199	☐	20-007	High Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594204	☐	20-007	High Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599376	☐	20-006	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599384	☐	20-006	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599399	☐	20-008	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599417	☐	20-008	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599420	☐	20-008	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599428	☐	20-009	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594193	☐	20-007	High Grade	Klaza20 20-C	☐	☐	☐
1.50	3.00	1.50	OVB	1.03	69	W599375	☐	20-006	Low Grade		☐	☐	☐
3.00	4.50	1.50	FLR	1.30	87	W599377	☐	20-006	Low Grade		☐	☐	☐
4.50	6.00	1.50	FLR	1.21	81	W599378	☐	20-006	Low Grade		☐	☐	☐
6.00	7.50	1.50	FLR	1.29	86	W599379	☐	20-006	Low Grade		☐	☐	☐
7.50	9.00	1.50	FLR	0.88	59	W599380	☐	20-006	Low Grade		☐	☐	☐
9.00	10.50	1.50	FLR	1.06	71	W599381	☐	20-006	Low Grade		☐	☐	☐
12.19	14.50	2.31	FLR	1.26	55	W599382	☐	20-006	Low Grade		☐	☐	☐
14.50	16.00	1.50	FLR	1.00	67	W599383	☐	20-006	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
16.00	17.50	1.50	FLR	1.29	86	W599385	☐	20-008	Low Grade		☐	☐	☐
17.50	19.00	1.50	GRD	1.32	88	W599386	☐	20-008	Low Grade		☐	☐	☐
19.00	20.50	1.50	GRD	1.06	71	W599387	☐	20-008	Low Grade		☐	☐	☐
27.50	29.00	1.50	GRD	1.43	95	W599388	☐	20-008	Low Grade		☐	☐	☐
29.00	30.50	1.50	GRD	1.23	82	W599389	☐	20-008	Low Grade		☐	☐	☐
30.50	32.00	1.50	GRD	1.44	96	W599390	☐	20-008	Low Grade		☐	☐	☐
32.00	33.10	1.10	GRD	0.84	76	W599391	☐	20-008	Low Grade		☐	☐	☐
33.10	34.00	0.90	GRD	0.77	86	W594187	☐	20-007	High Grade		☐	☐	☐
34.00	35.40	1.40	GRD	1.15	82	W599392	☐	20-008	Low Grade		☐	☐	☐
34.00	35.40	1.40	GRD	1.15	82	W599393	☐	20-008	Low Grade		☐	☑	☐
35.40	36.15	0.75	GRD	0.67	89	W594188	☐	20-007	High Grade		☐	☐	☐
36.15	37.65	1.50	GRD	1.36	91	W599394	☐	20-008	Low Grade		☐	☐	☐
37.65	38.58	0.93	GRD	0.85	91	W599395	☐	20-008	Low Grade		☐	☐	☐
38.58	40.06	1.48	GRD	1.34	91	W599396	☐	20-008	Low Grade		☐	☐	☐
40.06	41.00	0.94	GRD	0.82	87	W594189	☐	20-007	High Grade		☐	☐	☐
41.00	42.00	1.00	GRD	1.00	100	W594190	☐	20-007	High Grade		☐	☐	☐
42.00	43.00	1.00	GRD	0.90	90	W594191	☐	20-007	High Grade		☐	☐	☐
43.00	44.00	1.00	GRD	0.84	84	W594192	☐	20-007	High Grade		☐	☐	☐
44.00	45.20	1.20	GRD	0.93	78	W594194	☐	20-007	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
45.20	46.50	1.30	GRD	1.24	95	W594195	☐	20-007	High Grade		☐	☐	☐
46.50	48.00	1.50	GRD, GRD	1.40	93	W599397	☐	20-008	Low Grade		☐	☐	☐
51.00	52.10	1.10	GRD	0.97	88	W599398	☐	20-008	Low Grade		☐	☐	☐
52.10	53.20	1.10	GRD	0.98	89	W599400	☐	20-008	Low Grade		☐	☐	☐
53.20	54.70	1.50	FEL	1.39	93	W599401	☐	20-008	Low Grade		☐	☐	☐
54.70	56.00	1.30	FEL	1.30	100	W599402	☐	20-008	Low Grade		☐	☐	☐
56.00	57.20	1.20	FEL	1.13	94	W599403	☐	20-008	Low Grade		☐	☐	☐
57.20	58.15	0.95	FEL	0.68	72	W599404	☐	20-008	Low Grade		☐	☐	☐
58.15	59.00	0.85	GRD, FEL	0.85	100	W599405	☐	20-008	Low Grade		☐	☐	☐
58.15	59.00	0.85	GRD, FEL	0.85	100	W599406	☐	20-008	Low Grade		☐	☑	☐
59.00	60.00	1.00	GRD	0.85	85	W599407	☐	20-008	Low Grade		☐	☐	☐
60.00	60.40	0.40	GRD	0.32	80	W594196	☐	20-007	High Grade		☐	☐	☐
60.40	61.40	1.00	GRD	0.81	81	W594197	☐	20-007	High Grade		☐	☐	☐
61.40	62.90	1.50	GRD	1.08	72	W599408	☐	20-008	Low Grade		☐	☐	☐
62.90	64.40	1.50	GRD	1.07	71	W599409	☐	20-008	Low Grade		☐	☐	☐
64.40	65.90	1.50	GRD	1.28	85	W599410	☐	20-008	Low Grade		☐	☐	☐
65.90	67.40	1.50	GRD	1.47	98	W599411	☐	20-008	Low Grade		☐	☐	☐
67.40	68.90	1.50	GRD	1.43	95	W599412	☐	20-008	Low Grade		☐	☐	☐
68.90	70.18	1.28	GRD	1.17	91	W599413	☐	20-008	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
70.18	71.40	1.22	GRD	1.00	82	W599414	☐	20-008	Low Grade		☐	☐	☐
71.40	71.85	0.45	GRD	0.41	91	W594198	☐	20-007	High Grade		☐	☐	☐
71.85	73.00	1.15	GRD	0.96	83	W599415	☐	20-008	Low Grade		☐	☐	☐
89.00	90.00	1.00	GRD	0.89	89	W599416	☐	20-008	Low Grade		☐	☐	☐
97.30	97.82	0.52	GRD	0.39	75	W599418	☐	20-008	Low Grade		☐	☐	☐
97.82	98.30	0.48	GRD	0.39	81	W594200	☐	20-007	High Grade		☐	☐	☐
98.30	99.42	1.12	GRD	1.01	90	W594201	☐	20-007	High Grade		☐	☐	☐
99.42	100.90	1.48	GRD	1.42	96	W599419	☐	20-008	Low Grade		☐	☐	☐
100.90	102.40	1.50	GRD	1.49	99	W599421	☐	20-008	Low Grade		☐	☐	☐
102.40	103.90	1.50	GRD	1.45	97	W599422	☐	20-008	Low Grade		☐	☐	☐
103.90	105.40	1.50	GRD	1.23	82	W599423	☐	20-008	Low Grade		☐	☐	☐
105.40	106.60	1.20	GRD	1.04	87	W599424	☐	20-008	Low Grade		☐	☐	☐
106.60	107.21	0.61	GRD	0.48	79	W594202	☐	20-007	High Grade		☐	☐	☐
107.21	108.50	1.29	GRD	1.10	85	W599425	☐	20-009	Low Grade		☐	☐	☐
108.50	110.45	1.95	GRD	1.30	67	W599426	☐	20-009	Low Grade		☐	☐	☐
123.00	123.90	0.90	GRD	0.87	97	W599427	☐	20-009	Low Grade		☐	☐	☐
123.90	124.53	0.63	GRD	0.63	100	W594203	☐	20-007	High Grade		☐	☐	☐
124.53	125.50	0.97	GRD	0.97	100	W599429	☐	20-009	Low Grade		☐	☐	☐
168.65	169.35	0.70	GRD	0.48	69	W599430	☐	20-009	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
174.25	174.85	0.60	GRD	0.56	93	W599431	☐	20-009	Low Grade		☐	☐	☐
201.44	202.08	0.64	GRD, GRD	0.63	98	W599432	☐	20-009	Low Grade		☐	☐	☐
205.25	205.98	0.73	GRD, GRD	0.71	97	W599433	☐	20-009	Low Grade		☐	☐	☐
205.98	207.00	1.02	GRD	1.02	100	W599434	☐	20-009	Low Grade		☐	☐	☐
207.00	208.29	1.29	GRD	1.24	96	W599435	☐	20-009	Low Grade		☐	☐	☐
215.00	216.00	1.00	GRD	0.93	93	W599436	☐	20-009	Low Grade		☐	☐	☐
239.00	239.77	0.77	GRD	0.77	100	W599437	☐	20-009	Low Grade		☐	☐	☐
239.77	240.43	0.66	GRD	0.66	100	W594205	☐	20-007	High Grade		☐	☐	☐
240.43	241.31	0.88	GRD	0.88	100	W599438	☐	20-009	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-007	W594193	0.00	0.00	12.05	120	☐	☐	☐	☑ Klaza2020-C	
20-007	W594199	0.00	0.00	0.01	20	☐	☐	☑	☐	
20-007	W594204	0.00	0.00	2.89	190	☐	☐	☐	☑ Klaza2020-B	
20-006	W599376	0.00	0.00	2.93	530	☐	☐	☐	☑ Klaza2020-B	
20-006	W599384	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-008	W599399	0.00	0.00	0.60	380	☐	☐	☐	☑ Klaza2020-A	
20-008	W599417	0.00	0.00	2.89	200	☐	☐	☐	☑ Klaza2020-B	
20-008	W599420	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-009	W599428	0.00	0.00	0.64	380	☐	☐	☐	☑ Klaza2020-A	
20-006	W599375	1.50	3.00	0.06	840	☐	☐	☐	☐	
20-006	W599377	3.00	4.50	0.02	1500	☐	☐	☐	☐	
20-006	W599378	4.50	6.00	0.04	1340	☐	☐	☐	☐	
20-006	W599379	6.00	7.50	0.00	1460	☐	☐	☐	☐	
20-006	W599380	7.50	9.00	0.02	1220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-006	W599381	9.00	10.50	0.03	1450	☐	☐	☐	☐	
20-006	W599382	12.19	14.50	0.20	3300	☐	☐	☐	☐	
20-006	W599383	14.50	16.00	0.02	1210	☐	☐	☐	☐	
20-008	W599385	16.00	17.50	0.02	1110	☐	☐	☐	☐	
20-008	W599386	17.50	19.00	0.04	900	☐	☐	☐	☐	
20-008	W599387	19.00	20.50	0.00	1520	☐	☐	☐	☐	
20-008	W599388	27.50	29.00	0.07	1080	☐	☐	☐	☐	
20-008	W599389	29.00	30.50	0.00	1530	☐	☐	☐	☐	
20-008	W599390	30.50	32.00	0.00	1500	☐	☐	☐	☐	
20-008	W599391	32.00	33.10	0.02	1470	☐	☐	☐	☐	
20-007	W594187	33.10	34.00	0.76	750	☐	☐	☐	☐	
20-008	W599392	34.00	35.40	0.04	1240	☐	☐	☐	☐	
20-008	W599393	34.00	35.40	0.04	1330	☑	☐	☐	☐	
20-007	W594188	35.40	36.15	4.51	200	☐	☐	☐	☐	
20-008	W599394	36.15	37.65	0.14	1400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-008	W599395	37.65	38.58	0.45	1450	☐	☐	☐	☐	
20-008	W599396	38.58	40.06	0.16	1440	☐	☐	☐	☐	
20-007	W594189	40.06	41.00	4.67	200	☐	☐	☐	☐	
20-007	W594190	41.00	42.00	1.58	430	☐	☐	☐	☐	
20-007	W594191	42.00	43.00	1.45	800	☐	☐	☐	☐	
20-007	W594192	43.00	44.00	1.39	540	☐	☐	☐	☐	
20-007	W594194	44.00	45.20	0.68	920	☐	☐	☐	☐	
20-007	W594195	45.20	46.50	0.48	1090	☐	☐	☐	☐	
20-008	W599397	46.50	48.00	0.00	1520	☐	☐	☐	☐	
20-008	W599398	51.00	52.10	0.01	1500	☐	☐	☐	☐	
20-008	W599400	52.10	53.20	0.21	1180	☐	☐	☐	☐	
20-008	W599401	53.20	54.70	0.01	1600	☐	☐	☐	☐	
20-008	W599402	54.70	56.00	0.01	2060	☐	☐	☐	☐	
20-008	W599403	56.00	57.20	0.00	1860	☐	☐	☐	☐	
20-008	W599404	57.20	58.15	0.03	640	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-008	W599405	58.15	59.00	0.07	1190	☐	☐	☐	☐	
20-008	W599406	58.15	59.00	0.11	1140	☑	☐	☐	☐	
20-008	W599407	59.00	60.00	0.56	1380	☐	☐	☐	☐	
20-007	W594196	60.00	60.40	12.30	90	☐	☐	☐	☐	
20-007	W594197	60.40	61.40	0.67	790	☐	☐	☐	☐	
20-008	W599408	61.40	62.90	0.10	1210	☐	☐	☐	☐	
20-008	W599409	62.90	64.40	0.00	1440	☐	☐	☐	☐	
20-008	W599410	64.40	65.90	0.04	1380	☐	☐	☐	☐	
20-008	W599411	65.90	67.40	0.01	1340	☐	☐	☐	☐	
20-008	W599412	67.40	68.90	0.03	1440	☐	☐	☐	☐	
20-008	W599413	68.90	70.18	0.05	1390	☐	☐	☐	☐	
20-008	W599414	70.18	71.40	0.01	1480	☐	☐	☐	☐	
20-007	W594198	71.40	71.85	0.66	600	☐	☐	☐	☐	
20-008	W599415	71.85	73.00	0.01	1510	☐	☐	☐	☐	
20-008	W599416	89.00	90.00	0.02	960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-008	W599418	97.30	97.82	0.01	1310	☐	☐	☐	☐	
20-007	W594200	97.82	98.30	2.22	280	☐	☐	☐	☐	
20-007	W594201	98.30	99.42	0.04	1030	☐	☐	☐	☐	
20-008	W599419	99.42	100.90	0.03	1340	☐	☐	☐	☐	
20-008	W599421	100.90	102.40	0.03	1270	☐	☐	☐	☐	
20-008	W599422	102.40	103.90	0.01	1350	☐	☐	☐	☐	
20-008	W599423	103.90	105.40	0.01	1360	☐	☐	☐	☐	
20-008	W599424	105.40	106.60	0.01	1410	☐	☐	☐	☐	
20-007	W594202	106.60	107.21	0.20	700	☐	☐	☐	☐	
20-009	W599425	107.21	108.50	0.01	1130	☐	☐	☐	☐	
20-009	W599426	108.50	110.45	0.00	1250	☐	☐	☐	☐	
20-009	W599427	123.00	123.90	0.02	1160	☐	☐	☐	☐	
20-007	W594203	123.90	124.53	16.35	450	☐	☐	☐	☐	
20-009	W599429	124.53	125.50	0.01	760	☐	☐	☐	☐	
20-009	W599430	168.65	169.35	0.09	830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-009	W599431	174.25	174.85	0.03	1020	☐	☐	☐	☐	
20-009	W599432	201.44	202.08	0.04	710	☐	☐	☐	☐	
20-009	W599433	205.25	205.98	0.01	670	☐	☐	☐	☐	
20-009	W599434	205.98	207.00	0.05	500	☐	☐	☐	☐	
20-009	W599435	207.00	208.29	0.01	1300	☐	☐	☐	☐	
20-009	W599436	215.00	216.00	0.01	1100	☐	☐	☐	☐	
20-009	W599437	239.00	239.77	0.00	1160	☐	☐	☐	☐	
20-007	W594205	239.77	240.43	0.19	300	☐	☐	☐	☐	
20-009	W599438	240.43	241.31	0.00	1170	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
19.80	19.81	VT	37	62	NUL	1	qtz veinlet			
28.05	28.06	VT	37	45	NUL	1	carbonate veinlet			
33.30	33.40	VN	37	45	NUL	1	mineralized vein			
36.70	37.10	VN	37	55	NUL	3	mineralized veins			
40.06	40.10	VT	37	55	NUL	1	mineralized veinlet			
42.54	42.58	VT	37	45	NUL	1	mineralized veinlet			
43.80	43.84	VT	37	45	NUL	1	mineralized vein			
46.22	46.29	VT	37	52	NUL	1	mineralized vein			
92.90	92.91	VT	37	50	NUL	1	unmineralized qtz veinlet			
97.90	97.96	VN	37	55	NUL	1	mineralized vein			
100.30	100.31	VT	37	60	NUL	1	qtz veinlet with disseminated py halo			
106.80	107.21	FT	42	68	NUL	1	mineralized faultt with vein fragemnts.			
139.60	139.61	VT	37	50	NUL	1	quartz veinlet			
142.30	143.15	FR	5	50	NUL	4	fractures			
145.50	146.00	FR	5	55	NUL	3	fractures			
166.92	166.93	FR	5	60	NUL	1	carbonate-chlorite infill			
169.10	169.18	BN		45	NUL	2	bands of sphalerite mineralization			
173.00	173.10	FR	5	60	NUL	2	fractures with gouge/clay infill			
174.25	174.56	VT	37	45	NUL	6	swarm of quartz veinlets			
175.85	177.50	VT	37	73	NUL	3	quartz-pyrite veinlets			
179.30	179.31	FR	5	45	NUL	1	clay filled fracture			
180.50	182.00	FR	5	60	NUL	8	fractures with cholite-epidote alteration halos			
185.10	185.11	FR	5	50	NUL	1	fracture with epidote alteration halo			
185.80	185.81	FR	5	57	NUL	1	fracture with epidote alteration halo			
189.50	189.51	VT	37	65	NUL	1	qtz veinlet			
192.00	192.02	VT	37	55	NUL	1	qtz veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
193.50	193.51	VT	37	55	NUL	1	qtz veinlet			
196.85	196.86	FR	5	60	NUL	1	carbonate-chlorite infill			
198.12	198.14	VT	37	35	NUL	1	qtz veinlet			
201.55	201.56	VT	37	50	NUL	1	qtz carbonate veinelt			
201.85	201.87	VN	37	60	NUL	1	qtz py vein			
202.20	202.21	VT	37	65	NUL	1	qtz py veinlet with epidote alteration halo			
204.14	204.15	VT	37	60	NUL	1	aplite veinlt			
205.30	205.31	VT	37	48	NUL	1	aplite veinlet			
205.98	206.17	VN	37	72	NUL	1	vein, qtz, carb, py smectite, gal			
217.30	217.31	VT	37	40	NUL	1	qtz veinlet			
217.90	217.91	VT	37	25	NUL	1	qtz veinlete			
219.45	219.46	VT	37	59	NUL	1	qtz chl veinlet			
228.20	228.21	FR	5	60	NUL	1	fracture chlorite infill			
232.00	232.01	VT	37	55	NUL	1	qtz veinlet			
234.50	234.55	FR	5	60	NUL	1	fracture controling minor breccia with associated disseminated py			
239.96	240.03	VN	37	60	NUL	1	fractured/brecciated mineralized vein			
								Gn	10	---
								Py	10	---
								Sp	10	---
242.60	242.62	VT	37	65	NUL	1	quartz carbonate veinlet			
249.40	249.41	FT	42	36	NUL	1	qtz carbonate veinlet			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382792	6885716	1206	222.5

ZONE: Rusk

SECTION:

HOLE: KL -20-471

CLAIM: YA78060

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 4.57m, Out

Drilling Dates: Aug 21 - Aug 23, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.1	1.1	CAS
1.1	2.54	1.44	OVB
2.54	58.65	56.11	GRD
58.65	64.6	5.95	GRD
64.6	81.72	17.12	GRD
81.72	99.3	17.58	GRD
99.3	106.75	7.45	BXA
106.75	108.62	1.87	GRD
108.62	123.84	15.22	GRD
123.84	124.69	0.85	GRD
124.69	134.92	10.23	GRD
134.92	135.21	0.29	GRD
135.21	142.18	6.97	GRD
142.18	144.54	2.36	GRD
144.54	154.32	9.78	GRD
154.32	159.9	5.58	GRD

SAMPLES	
Numbers:	W594206 to W594231, W599439 to W599520
Total:	108
Batch:	007, 009, 010, 011, 012
Certificates:	WH20195518, WH20195522, WH20195523, WH20195524, WH20224721

COMMENTS

Very good mineralized intercept in this hole. Handheld GPS accuracy of 1.8m

159.9	168.45	8.55	QFP
168.45	170.1	1.65	GRD
170.1	196.25	26.15	GRD
196.25	201	4.75	GRD
201	205.64	4.64	VEN
205.64	207	1.36	GRD
207	217.65	10.65	GRD
217.65	222.5	4.85	GRD

Box Log

KL -20-471

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.1	4.16
2	4.16	7.25
3	7.25	10.54
4	10.54	13.42
5	13.42	16.51
6	16.51	19.61
7	19.61	22.86
8	22.86	26
9	26	29.3
10	29.3	32.24
11	32.24	35.42
12	35.42	38.75
13	38.75	41.86
14	41.86	44.9
15	44.9	48
16	48	50.8
17	50.8	53.87
18	53.87	56.9
19	56.9	59.74
20	59.74	62.43
21	62.43	65.28
22	65.28	68.05
23	68.05	71.05
24	71.05	74
25	74	77.26
26	77.26	80.42
27	80.42	83.36
28	83.36	86.05
29	86.05	88.68
30	88.68	91.02
31	91.02	94.1
32	94.1	97.34
33	97.34	100.37
34	100.37	103.52
35	103.52	106.5
36	106.5	109.73
37	109.73	112.87
38	112.87	116.03
39	116.03	118.92
40	118.92	122.22
41	122.22	125.2
42	125.2	128.5
43	128.5	131.6
44	131.6	134.74
45	134.74	137.8
46	137.8	140.68
47	140.68	143.84
48	143.84	147.12
49	147.12	150.06
50	150.06	153.2
51	153.2	157.28
52	157.28	161.12
53	161.12	165.14
54	165.14	169.07
55	169.07	173.33
56	173.33	177.66
57	177.66	181.93
58	181.93	186
59	186	190.29
60	190.29	194.69
61	194.69	198.94
62	198.94	203.1
63	203.1	207
64	207	211.13
65	211.13	215.17
66	215.17	219.46
67	219.46	222.5

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-471									
	18.12	13	HTW	GRD	1427	911	2.85	2.8	fine grained grd
	46.8	15	HTW	GRD	1679	1079	2.91	2.8	fine grained grd
	83.36	17.2	HTW	GRD	1946	1229	2.94	2.7	fine grained grd
	105.16	19	HTW	BXA	2069	1314	2.83	2.7	recrystalized, weakly silicified altered grd breccia
	144.8	16	HTW	GRD	1794	1142	2.91	2.8	grd
	161.12	12.4	NTW	QFP	786	498	2.24	2.7	qfp dyke
	186	15	NTW	GRD	971.1	620	2.29	2.8	coarse grained grd
	204.68	9	NTW	VEN	880.5	684	3.46	4.5	Sulphide vein - with 80% sulpides - galena, sphalerite and pyrite.
	205.51	9	NTW	VEN	972.3	763.6	3.82	4.7	Sulphide vein with 80% sulphides - pyrite, sphalerite, galena
	219.46	16	NTW	GRD	1070.9	678.1	2.37	2.7	altered grd, half if bleached and has some epidote

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
######	######	0.00	-?-	--	-999							
											Py	2
0.00	1.10	1.10	CAS	--	casing							
1.10	2.54	1.44	OVB	--	overburden							
2.54	14.89	12.35	GRD	FG	massive grd							
14.89	15.43	0.54	GRD	FG	bleached and clay altered GRD, mafics generally preserved, but feldspars altered to clay.							
15.43	15.64	0.21	GRD	FG	massive GRD							
15.64	16.22	0.58	GRD	FG	Bleached and clay altered, fe-oxide stained around rubbly brown middle section, looks like dirt(?). Minor 1cm qtz carbonate veins, trace Py. Possibly remains of other oxidized sulphides, but doubtful.							
											Py	0.1
16.22	27.95	11.73	GRD	FG	FG GRD, some minor intervals of feldspar destructive alteration or bleaching around >5mm qtz-carb vienlets. Ex at 18.1m, 19.15m, 23.65m, 25.95m, and 17.15m.							
27.95	28.80	0.85	GRD	FG	moderately bleached / altered grd, associated with minor qtz>carb veins. Very trace Py.							
28.80	37.85	9.05	GRD	FG	FG GRD, some minor intervals of feldspar destructive alteration or bleaching around >5mm qtz-carb vienlets. Ex at 32.85m, 33.53m, 34m, 35.5m.							
37.85	37.95	0.10	GRD	FG	small sheeted veinlets in GRD, mainly qtz, minor Carbonates, trace Py. Qtz commonly stained light purple grey with hematite. Veins trend 53-70 degrees							
37.95	38.85	0.90	GRD	FG	altered / bleached interval associated with 15mm qtz veinlet stained light purple grey with hematite. 60 deg tca							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.85	39.41	0.56	GRD	FG	unzaltered grd							
39.41	39.92	0.51	GRD	FG	altered envelope around 3cm small veinlet swarm at 55 deg tca, unmineralized							
39.92	44.27	4.35	GRD	FG	unaltered grd							
44.27	44.66	0.39	GRD	FG	altered envelope around 3cm vein at 55 deg tca.							
44.66	51.85	7.19	GRD	FG	unaltered grd							
51.85	52.25	0.40	VEN	--	two veinlets at 55 deg tca, one larger vein at 18 deg tca, and smaller pyrite veinlets at 35 deg tca. Larger vein and 55 deg veinlets have similar minarlaization. Grey qtz and fine grained py rimming blebby hematite/other sulphides(?) possibly aspy in vein as well, but difficutl to tell due to the fine grained nature of all the sulphides present.							
											He	5
											Py	8
52.25	53.23	0.98	GRD	FG	unaltered grd							
53.23	53.33	0.10	VEN	--	two different compositioned veins trending the same direction. One 1cm dark grey qtz and py and hematite, similar to vein above, and one white qtz carboante vein with trace py.							
											Py	1
53.33	54.00	0.67	GRD	FG	unaltered grd							
54.00	54.20	0.20	GRD	FG	sheared / strained weakly bleached interval							
54.20	58.65	4.45	GRD	FG	unaltered grd, small veinlet at 55.3m with minor py							
58.65	59.80	1.15	GRD	FG	bleaching/alteration increasing down the interval.							
59.80	60.96	1.16	FLR	--	faulted brecciated altered grd. Disseminated py and likely other suphides, but difficult to tell due to fine nature.							
											Py	2
60.96	61.06	0.10	GRD	FG	altered crached grd							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
61.06	61.40	0.34	VEN	--	brecciated mineralized, sheared and faulted vein material. More competent at uphole end of interval with fairly massive white carbonate. Transiting into sulphide dominant fractured but not brecciated vein material roughly 70% sulphides, ~10cm wide, Py-Sphal-Gal. Below that transitions into a sheared smeared faulted mash of vein and altered host rock, ~20cm wide. Sulphide content decreasing down this sub-interval.							
											Gn	5
											Sp	5
											Py	10
61.40	63.95	2.55	GRD	FG	altered grd							
63.95	64.05	0.10	VEN	--	carbonate-rhodochrosite-grey qyartz vein with minor py . Cracked and broken. 50 deg tca							
											Py	1
64.05	64.35	0.30	FLR	--	faulted altered grd. 10% gouge. Minor disseminated Py.							
											Py	0.5
64.35	64.60	0.25	GRD	FG	altered grd							
64.60	68.40	3.80	GRD	FG	unaltered, broken, calcite in some fracture surfaces							
68.40	69.40	1.00	GRD	FG	envelope of alteration around 25cm swarm of veinlets and fractures with carbaonate-quartz and sulphides, Py, Aspy							
									SER	4I	Py	2
											As	1
69.40	70.70	1.30	GRD	FG	unaltered grd							
70.70	70.86	0.16	GRD	FG	altered envelope around small 3cm veinlet of qtz-carbonate-pyrite-chlorite							
											Py	2
70.86	72.56	1.70	GRD	FG	unaltered grd, xmall 1-2cm veinlet of qtz with red-brown hematite and specular hematite							
72.56	74.46	1.90	GRD	FG	altered envelope around shear/fracture/strain area at 73.4m, and interval of sheeted veinlets at 73.8-74.2m. Disseminated py and aspy around vveinlets							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	1
											As	1
74.46	75.00	0.54	GRD	FG	unaltered							
75.00	75.81	0.81	GRD	FG	altered envelope around breccia > vein interval. Quartz-carbaonate-rhodochrosite, minor sulphides, py and sphal and what looks to be aspy							
											Py	1
											Sp	1
											As	0.5
75.81	79.75	3.94	GRD	FG	unaltered							
79.75	81.72	1.97	GRD	FG	altered envelope around 4 discreet 5-10cm veins or vein swarms at 80.1m, 80.9m, 80.2m, 80.4m. Generally poorly mineralized, generally ~50% rhodochrosite, and trending 55-65 deg tca. Majority of sulphides in interval is disseminated in bands also trending at 55-65 deg tca							
											Gn	1
											Py	2
81.72	85.00	3.28	GRD	FG	unaltered grd							
85.00	89.00	4.00	GRD	FG	unaltered grd, fractured by low angle carbonate filled fractures							
89.00	89.10	0.10	GRD	FG	sheared/strained grd, weak altereation							
89.10	89.67	0.57	GRD	FG	unaltered							
89.67	89.80	0.13	VEN	--	quartz-hematite-pyrite veining, 4cm vein at 60 deg tca, 1cm vein at 45 deg tca, no associated alteration halos							
											Py	3
89.80	96.30	6.50	GRD	FG	unaltered							
96.30	96.40	0.10	GRD	FG	altered around small qtz-py veinlet							
96.40	96.90	0.50	GRD	FG	unaltered							
96.90	96.97	0.07	GRD	FG	alteration around small veinlet/fracture							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
96.97	99.20	2.23	GRD	FG	unaltered							
99.20	99.30	0.10	GRD	FG	rubbly weakly bleached section above breccia below							
99.30	100.80	1.50	BXA	MG	fine grained breccia, minor hem staining.alteration							
100.80	102.75	1.95	BXA	CG	coarser breccia, clasts up to 8cm, otherwise same as above, lesser hematite alteration							
102.75	103.06	0.31	BXA	--	finer grained again, some veining, 3cm well mineralized swarm of veinlets with Gal, Sphal, and minor Py at 102.92m. Otherwise common disseminated Py thoughout interval.							
103.06	106.50	3.44	BXA	CG	coarser breccia, clasts up to 10cm							
106.50	106.75	0.25	BXA	CG	intensely silica flooded breccia, very fine grained translucent calcedonic quartz. Becoming dominantly chalcedony towards bottom of interval until end/comtact with unbrecciated GRD.							
106.75	107.50	0.75	GRD	FG	altered grd, minor disseminated sulphides, green-grey, banded appearance, bands at 55 deg tca							
107.50	108.05	0.55	GRD	FG	banded altered GRD with bands of disseminated Py, bands at 53 deg TCA							
											Py	3
108.05	108.10	0.05	VEN	--	brecciated vein, trace sulphides, lightly pink (rhodochrosite?), silicous matrix with trace sulph, and sericite altred clasts of host rock							
											Py	2
108.10	108.28	0.18	GRD	FG	altered grd							
108.28	108.30	0.02	GRD	FG	band of disseminated fine grained Py. 45 deg TCA							
											Py	70
108.30	108.42	0.12	VEN	--	55 deg TCA, rhodochrosite/carbonate vein. Minor sphal.							
108.62	110.55	1.93	GRD	FG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
110.55	110.68	0.13	GRD	FG	altered envelope around small qtz carboante veinlet w trace py.							
110.68	111.55	0.87	GRD	FG	same as general lith							
111.55	111.68	0.13	GRD	FG	strained and lightly bleached interval of grd							
111.68	112.40	0.72	GRD	FG	same as general lith							
112.40	112.50	0.10	GRD	FG	altered envelope around minor qtz-carbonate veinlet, trace py							
112.50	122.00	9.50	GRD	FG	same as general lith, minor veinlets at 114.2, and 117.9m, at 55 deg tca							
122.00	123.10	1.10	GRD	FG	weakly altered grd, clay altered							
123.10	123.21	0.11	FLT	FG	11cm interval of breccia > gouge							
123.21	123.84	0.63	GRD	FG	weakly altered grd							
123.84	124.14	0.30	GRD	FG	altered grd, minor disseminated Py							
124.14	124.37	0.23	VEN	--	brecciated carboante-quartz-rhodochrosite-sulphide vein. Minor py, trace sphal. 58 deg tca							
124.37	124.69	0.32	GRD	FG	altered grd. Abrupt contact with unaltered grd at small veinlet							
124.69	132.20	7.51	GRD	FG	same as general lith							
132.20	132.30	0.10	GRD	CG	coarse graine grd?							
132.30	134.92	2.62	GRD	FG	same as general lith							
134.92	135.03	0.11	GRD	FG	altered grd							
135.03	135.07	0.04	VEN	--	rhodochrosite-carbonate-qtz vein, trace sulphides. 55 deg tca							
135.07	135.21	0.14	GRD	FG	altered grd							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
135.21	138.20	2.99	GRD	FG	unaltered grd							
138.20	138.68	0.48	FLR	--	strained / broken altered fine graine grd							
138.68	139.00	0.32	GRD	FG	unaltered grd							
139.00	139.40	0.40	GRD	CG	xenolith?							
139.40	142.18	2.78	GRD	FG	unaltered grd							
142.18	143.70	1.52	GRD	FG	altered grd. Small veinlets at 142.5 with some locally disseminated py							
											Py	0.5
143.70	143.84	0.14	VEN	--	two minor, unmineralized veins (15mm and 15mm), qtz-carbonate-rhodochrosite, trace py in both,							
143.84	144.54	0.70	GRD	FG	altered grd. Trace py in some minor stringers							
											Py	0.5
144.54	149.00	4.46	GRD	FG	silica altered grd							
									SID	2I		
149.00	153.70	4.70	GRD	FG	unaltered grd							
153.70	153.80	0.10	GRD	CG	xenolith?							
153.80	154.32	0.52	GRD	FG	unaltered grd							
154.32	159.90	5.58	GRD	FG	same as general lith really, it's a little chaotic, bands of py coming in and out at varuous orientations, patchy. Low angle fractures have ~5mm gougy infill. Little vein at 145.25 is only ~1cm wide, has 30%py 20%Sph, 10%Gal							
159.90	168.45	8.55	QFP	FG	same as general lith							
168.45	169.50	1.05	GRD	FG	clay-sericite altered grd, some py along fracutre surfaces							
169.50	170.10	0.60	FLR	--	fault breccia and gouge (15% GOU), with trace disseminated py thougout and small 2cm interval of faulted vein with minor sulphides (py) towards bottom of interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.5
170.10	176.85	6.75	GRD	FG	fine grained unaltered grd							
176.85	177.22	0.37	GRD	FG	altered envelope around two small 1cm carbonate veinlets							
177.22	180.40	3.18	GRD	FG	unaltered grd							
180.40	181.07	0.67	GRD	FG	altered envelope around small carbonate-chlorite fractures at 40 deg tca							
181.07	182.50	1.43	GRD	FG	unaltered fine grained grd							
182.50	184.60	2.10	GRD	MG	unaltered med grained grd							
184.60	184.92	0.32	GRD	MG	alteration envelope around small veinlet swarm at 50 deg tca							
184.92	196.25	11.33	GRD	MG	unaltered med grained grd							
196.25	196.50	0.25	GRD	MG	rubble interval							
196.50	197.25	0.75	GRD	MG	moderately clay altered							
197.25	197.75	0.50	GRD	MG	unaltered grd							
197.75	198.30	0.55	GRD	MG	alteration envelope around small poorly mineralized vein at 198m, 65 deg tca with 3%Py, 3cm wide							
											Py	0.5
198.30	198.70	0.40	GRD	MG	unaltered grd							
198.70	199.50	0.80	GRD	FG	med to fine grained altered grd, minor veinlets thoroughout							
199.50	200.40	0.90	GRD	FG	unaltered GRD							
200.40	201.00	0.60	GRD	FG	stronlgy sericite altered fine to med grained grd uphole from vein							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
201.00	201.80	0.80	GRD	--	Highly fractured / faulted and pervasively altered interval. Some carbonate-qtz veins and fractured altered granodiorite, minor sulphides, disseminated in host rock or in veins.							
											Py	4
201.80	201.85	0.05	VEN	--	massive sphal and py, minor gal							
											Py	70
											Sp	20
201.85	202.30	0.45	GRD	--	fractured altered grd with minor carbonate-qtz veining, disseminated py thoughout							
											Py	4
202.30	202.37	0.07	VEN	--	Py-sphal-gal vein with qtz and carbonate							
											Py	55
											Sp	30
											Gn	5
202.37	202.70	0.33	GRD	--	altered grd, with some disseminated py and sulphides in minor carbonate qtz veins							
											Py	4
202.70	202.77	0.07	VEN	--	sulphide dominant interval on edge of carbonate vein							
											Gn	5
											Py	50
											Sp	20
202.77	203.40	0.63	VEN	--	Dominantly carboante vein materail with lesser host rock and sulphides. Sulphides are concentrated on edges of veins on host rock clasts. Py and Sphal dominate sulphides, minor Gal.							
											Py	3
											Sp	3
											Gn	1
203.40	203.60	0.20	GRD	--	altered, silica flooded grd, with disseminated Py							
											Py	3
203.60	203.90	0.30	VEN	--	sulphide dominant interval, flooded into altered host rock, more gal than in intervals above. Smaller interval of mostly barren carbonate at top of interval.							
											Gn	5
											Py	30
											Sp	30

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
203.90	204.45	0.55	VEN	--	carbonate dominant interval. Some angular clasts of altered host rock with disseminated sulphides.							
											Gn	0.5
											Sp	1
											Py	1
204.45	204.80	0.35	VEN	--	host rock and sulphides, sulphide dominant vein? More gal than intervals above. Mottled mass of carboante and sulphides, roughly equal parts gal, sphal, py. Possibly aspy in this interval							
											Py	26
											Sp	26
											Gn	26
											As	0.5
204.80	205.37	0.57	GRD	--	altered host rock. Minor sulphide veinlets. Some disseminated sulphides (Py)							
											Py	1
205.37	205.64	0.27	VEN	--	vein containing carbonate and sulphides and clasts of sulphide disseminated altered host rock. Clasts of fine grained grey quartz/chalcedony in carbonate. Approximately equal parts Py, Sphal, Gal, and Aspy.							
											Gn	18
											As	18
											Sp	18
											Py	18
205.64	207.00	1.36	GRD	FG	same as general lith							
207.00	214.30	7.30	GRD	FG	unaltered veinlets of sulphide at 207.95m, bands of disseminated py at 211.3m, qtz py veinlet at 209.25m							
											Py	1
											Sp	0.5
											Gn	0.5
214.30	214.75	0.45	GRD	FG	alteration envelope around 5cm interval of faulted material with disseminated Py, and small swarm of veinlets continaing Py and minor sphal							
214.75	217.65	2.90	GRD	FG	unaltered grd with small vein at 217.37m at 40 deg tca with bands of Py, sphal, and gal, weak alteration halo							
											Gn	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.5
											Sp	0.5
217.65	222.50	4.85	GRD	MG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
######	######	0.00	-?-	GRD	--	-999
0.00	1.10	1.10	CAS	OVB	--	casing
1.10	2.54	1.44	OVB	OVB	--	overburden
2.54	14.89	12.35	GRD	GRD	FG	massive grd
14.89	15.43	0.54	GRD	GRD	FG	bleached and clay altered GRD, mafics generally preserved, but feldspars altered to clay.
15.43	15.64	0.21	GRD	GRD	FG	massive GRD
15.64	16.22	0.58	GRD	GRD	FG	Bleached and clay altered, fe-oxide stained around rubbly brown middle section, looks like dirt(?). Minor 1cm qtz carbonate veins, trace Py. Possibly remains of other oxidized sulphides, but doubtful.
16.22	27.95	11.73	GRD	GRD	FG	FG GRD, some minor intervals of feldspar destructive alteration or bleaching around >5mm qtz-carb vienlets. Ex at 18.1m, 19.15m, 23.65m, 25.95m, and 17.15m.
27.95	28.80	0.85	GRD	GRD	FG	moderately bleached / altered grd, associated with minor qtz>carb veins. Very trace Py.
28.80	37.85	9.05	GRD	GRD	FG	FG GRD, some minor intervals of feldspar destructive alteration or bleaching around >5mm qtz-carb vienlets. Ex at 32.85m, 33.53m, 34m, 35.5m.
37.85	37.95	0.10	GRD	GRD	FG	small sheeted veinlets in GRD, mainly qtz, minor Carbonates, trace Py. Qtz commonly stained light purple grey with hematite. Veins trend 53-70 degrees
37.95	38.85	0.90	GRD	GRD	FG	altered / bleached interval associated with 15mm qtz veinlet stained light purple grey with hematite. 60 deg tca
38.85	39.41	0.56	GRD	GRD	FG	unzaltered grd
39.41	39.92	0.51	GRD	GRD	FG	altered envelope around 3cm small veinlet swarm at 55 deg tca, unmineralized
39.92	44.27	4.35	GRD	GRD	FG	unaltered grd
44.27	44.66	0.39	GRD	GRD	FG	altered envelope around 3cm vein at 55 deg tca.
44.66	51.85	7.19	GRD	GRD	FG	unaltered grd
51.85	52.25	0.40	VEN	GRD	--	two veinlets at 55 deg tca, one larger vein at 18 deg tca, and smaller pyrite veinlets at 35 deg tca. Larger vein and 55 deg veinlets have similar minarlaization. Grey qtz and fine grained py rimming blebby hematite/other sulphides(?) possibly aspy in vein as well, but difficutl to tell due to the fine grained nature of all the sulphides present.
52.25	53.23	0.98	GRD	GRD	FG	unaltered grd
53.23	53.33	0.10	VEN	GRD	--	two different compositioned veins trending the same direction. One 1cm dark grey qtz and py and hematite, similar to vein above, and one white qtz carboante vein with trace py.
53.33	54.00	0.67	GRD	GRD	FG	unaltered grd

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
54.00	54.20	0.20	GRD	GRD	FG	sheared / strained weakly bleached interval
54.20	58.65	4.45	GRD	GRD	FG	unaltered grd, small veinlet at 55.3m with minor py
58.65	59.80	1.15	GRD	FLTA	FG	bleaching/alteration increasing down the interval.
59.80	60.96	1.16	FLR	FLTA	--	faulted brecciated altered grd. Disseminated py and likely other suphides, but difficult to tell due to fine nature.
60.96	61.06	0.10	GRD	FLTA	FG	altered crached grd
61.06	61.40	0.34	VEN	FLTA	--	brecciated mineralized, sheared and faulted vein material. More competent at uphole end of interval with fairly massive white carbonate. Transiting into sulphide dominant fractured but not brecciated vein material roughly 70% sulphides, ~10cm wide, Py-Sphal-Gal. Below that transitions into a sheared smeared faulted mash of vein and altered host rock, ~20cm wide. Sulphide content decreasing down this sub-interval.
61.40	63.95	2.55	GRD	FLTA	FG	altered grd
63.95	64.05	0.10	VEN	FLTA	--	carbonate-rhodochrosite-grey qyartz vein with minor py . Cracked and broken. 50 deg tca
64.05	64.35	0.30	FLR	FLTA	--	faulted altered grd. 10% gouge. Minor disseminated Py.
64.35	64.60	0.25	GRD	FLTA	FG	altered grd
64.60	68.40	3.80	GRD	GRD	FG	unaltered, broken, calcite in some fracture surfaces
68.40	69.40	1.00	GRD	GRD	FG	envelope of alteration around 25cm swarm of veinlets and fractures with carbaonate-quartz and sulphides, Py, Aspy
69.40	70.70	1.30	GRD	GRD	FG	unaltered grd
70.70	70.86	0.16	GRD	GRD	FG	altered envelope around small 3cm veinlet of qtz-carbonate-pyrite-chlorite
70.86	72.56	1.70	GRD	GRD	FG	unaltered grd, xmall 1-2cm veinlet of qtz with red-brown hematite and specular hematite
72.56	74.46	1.90	GRD	GRD	FG	altered envelope around shear/fracture/strain area at 73.4m, and interval of sheeted veinlets at 73.8-74.2m. Disseminated py and aspy around vveinlets
74.46	75.00	0.54	GRD	GRD	FG	unaltered
75.00	75.81	0.81	GRD	GRD	FG	altered envelope around breccia > vein interval. Quartz-carbaonate-rhodochrosite, minor sulphides, py and sphal and what looks to be aspy
75.81	79.75	3.94	GRD	GRD	FG	unaltered
79.75	81.72	1.97	GRD	GRD	FG	altered envelope around 4 discreet 5-10cm veins or vein swarms at 80.1m, 80.9m, 80.2m, 80.4m. Generally poorly mineralized, generally ~50% rhodochrosite, and trending 55-65 deg tca. Majority of sulphides in interval is disseminated in bands also trending at 55-65 deg tca
81.72	85.00	3.28	GRD	GRD	FG	unaltered grd
85.00	89.00	4.00	GRD	GRD	FG	unaltered grd, fractured by low angle carbonate filled fractures
89.00	89.10	0.10	GRD	GRD	FG	sheared/strained grd, weak altereation
89.10	89.67	0.57	GRD	GRD	FG	unaltered

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
89.67	89.80	0.13	VEN	GRD	--	quartz-hematite-pyrite veining, 4cm vein at 60 deg tca, 1cm vein at 45 deg tca, no associated alteration halos
89.80	96.30	6.50	GRD	GRD	FG	unaltered
96.30	96.40	0.10	GRD	GRD	FG	altered around small qtz-py veinlet
96.40	96.90	0.50	GRD	GRD	FG	unaltered
96.90	96.97	0.07	GRD	GRD	FG	alteration around small veinlet/fracture
96.97	99.20	2.23	GRD	GRD	FG	unaltered
99.20	99.30	0.10	GRD	GRD	FG	rubbly weakly bleached section above breccia below
99.30	100.80	1.50	BXA	FLTA	MG	fine grained breccia, minor hem staining.alteration
100.80	102.75	1.95	BXA	FLTA	CG	coarser breccia, clasts up to 8cm, otherwise same as above, lesser hematite alteration
102.75	103.06	0.31	BXA	FLTA	--	finer grained again, some veining, 3cm well mineralized swarm of veinlets with Gal, Sphal, and minor Py at 102.92m. Otherwise common disseminated Py thoughout interval.
103.06	106.50	3.44	BXA	FLTA	CG	coarser breccia, clasts up to 10cm
106.50	106.75	0.25	BXA	FLTA	CG	intensely silica flooded breccia, very fine grained translucent calcedonic quartz. Becoming dominantly chalcedony towards bottom of interval until end/comtact with unbrecciated GRD.
106.75	107.50	0.75	GRD	GRDA	FG	altered grd, minor disseminated sulphides, green-grey, banded appearance, bands at 55 deg tca
107.50	108.05	0.55	GRD	GRDA	FG	banded altered GRD with bands of disseminated Py, bands at 53 deg TCA
108.05	108.10	0.05	VEN	GRDA	--	brecciated vein, trace sulphides, lightly pink (rhodochrosite?), silicous matrix with trace sulph, and sericite altred clasts of host rock
108.10	108.28	0.18	GRD	GRDA	FG	altered grd
108.28	108.30	0.02	GRD	GRDA	FG	band of disseminated fine grained Py. 45 deg TCA
108.30	108.42	0.12	VEN	GRDA	--	55 deg TCA, rhodochrosite/carbonate vein. Minor sphal.
108.62	110.55	1.93	GRD	GRD	FG	same as general lith
110.55	110.68	0.13	GRD	GRD	FG	altered envelope around small qtz carboante veinlet w trace py.
110.68	111.55	0.87	GRD	GRD	FG	same as general lith
111.55	111.68	0.13	GRD	GRD	FG	strained and lightly bleached interval of grd
111.68	112.40	0.72	GRD	GRD	FG	same as general lith
112.40	112.50	0.10	GRD	GRD	FG	altered envelope around minor qtz-carbonate veinlet, trace py
112.50	122.00	9.50	GRD	GRD	FG	same as general lith, minor veinlets at 114.2, and 117.9m, at 55 deg tca
122.00	123.10	1.10	GRD	GRD	FG	weakly altered grd, clay altered
123.10	123.21	0.11	FLT	GRD	FG	11cm interval of breccia > gouge

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
123.21	123.84	0.63	GRD	GRD	FG	weakly altered grd
123.84	124.14	0.30	GRD	GRDA	FG	altered grd, minor disseminated Py
124.14	124.37	0.23	VEN	GRDA	--	brecciated carboante-quartz-rhodochrosite-sulphide vein. Minor py, trace sphal. 58 deg tca
124.37	124.69	0.32	GRD	GRDA	FG	altered grd. Abrupt contact with unaltered grd at small veinlet
124.69	132.20	7.51	GRD	GRD	FG	same as general lith
132.20	132.30	0.10	GRD	GRD	CG	coarse graine grd?
132.30	134.92	2.62	GRD	GRD	FG	same as general lith
134.92	135.03	0.11	GRD	GRDA	FG	altered grd
135.03	135.07	0.04	VEN	GRDA	--	rhodochrosite-carbonate-qtz vein, trace sulphides. 55 deg tca
135.07	135.21	0.14	GRD	GRDA	FG	altered grd
135.21	138.20	2.99	GRD	GRD	FG	unaltered grd
138.20	138.68	0.48	FLR	GRD	--	strained / broken altered fine graine grd
138.68	139.00	0.32	GRD	GRD	FG	unaltered grd
139.00	139.40	0.40	GRD	GRD	CG	xenolith?
139.40	142.18	2.78	GRD	GRD	FG	unaltered grd
142.18	143.70	1.52	GRD	GRDA	FG	altered grd. Small veinlets at 142.5 with some locally disseminated py
143.70	143.84	0.14	VEN	GRDA	--	two minor, unmineralized veins (15mm and 15mm), qtz-carbonate-rhodochrosite, trace py in both,
143.84	144.54	0.70	GRD	GRDA	FG	altered grd. Trace py in some minor stringers
144.54	149.00	4.46	GRD	GRD	FG	silica altered grd
149.00	153.70	4.70	GRD	GRD	FG	unaltered grd
153.70	153.80	0.10	GRD	GRD	CG	xenolith?
153.80	154.32	0.52	GRD	GRD	FG	unaltered grd
154.32	159.90	5.58	GRD	GRDA	FG	same as general lith really, it's a little chaotic, bands of py coming in and out at varuous orientations, patchy. Low angle fractures have ~5mm gougy infill. Little vein at 145.25 is only ~1cm wide, has 30%py 20%Sph, 10%Gal
159.90	168.45	8.55	QFP	DYK	FG	same as general lith
168.45	169.50	1.05	GRD	GRDA	FG	clay-sericite altered grd, some py along fracutre surfaces
169.50	170.10	0.60	FLR	GRDA	--	fault breccia and gouge (15% GOU), with trace disseminated py thougout and small 2cm interval of faulted vein with minor sulphides (py) towards bottom of interval.
170.10	176.85	6.75	GRD	GRD	FG	fine grained unaltered grd
176.85	177.22	0.37	GRD	GRD	FG	altered envelope around two small 1cm carbonate veinlets
177.22	180.40	3.18	GRD	GRD	FG	unaltered grd

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
180.40	181.07	0.67	GRD	GRD	FG	altered envelope around small carbonate-chlorite fractures at 40 deg tca
181.07	182.50	1.43	GRD	GRD	FG	unaltered fine grained grd
182.50	184.60	2.10	GRD	GRD	MG	unaltered med grained grd
184.60	184.92	0.32	GRD	GRD	MG	alteration envelope around small veinlet swarm at 50 deg tca
184.92	196.25	11.33	GRD	GRD	MG	unaltered med grained grd
196.25	196.50	0.25	GRD	GRDA	MG	rubble interval
196.50	197.25	0.75	GRD	GRDA	MG	moderately clay altered
197.25	197.75	0.50	GRD	GRDA	MG	unaltered grd
197.75	198.30	0.55	GRD	GRDA	MG	alteration envelope around small poorly mineralized vein at 198m, 65 deg tca with 3%Py, 3cm wide
198.30	198.70	0.40	GRD	GRDA	MG	unaltered grd
198.70	199.50	0.80	GRD	GRDA	FG	med to fine grained altered grd, minor veinlets thoroughout
199.50	200.40	0.90	GRD	GRDA	FG	unaltered GRD
200.40	201.00	0.60	GRD	GRDA	FG	stronlgy sericite altered fine to med grained grd uphole from vein
201.00	201.80	0.80	GRD	VEIN	--	Highly fractured / faulted and pervasively altered interval. Some carbonate-qtz veins and fractured altered granodiorite, minor sulphides, disseminated in host rock or in veins.
201.80	201.85	0.05	VEN	VEIN	--	massive sphal and py, minor gal
201.85	202.30	0.45	GRD	VEIN	--	fractured altered grd with minor carbonate-qtz veining, disseminated py thoughout
202.30	202.37	0.07	VEN	VEIN	--	Py-sphal-gal vein with qtz and carbonate
202.37	202.70	0.33	GRD	VEIN	--	altered grd, with some disseminated py and sulphides in minor carbonate qtz veins
202.70	202.77	0.07	VEN	VEIN	--	sulphide dominant interval on edge of carbonate vein
202.77	203.40	0.63	VEN	VEIN	--	Dominantly carboante vein materail with lesser host rock and sulphides. Sulphides are concentrated on edges of veins on host rock clasts. Py and Sphal dominate sulphides, minor Gal.
203.40	203.60	0.20	GRD	VEIN	--	altered, silica flooded grd, with disseminated Py
203.60	203.90	0.30	VEN	VEIN	--	sulphide dominant interval, flooded into altered host rock, more gal than in intervals above. Smaller interval of mostly barren carbonate at top of interval.
203.90	204.45	0.55	VEN	VEIN	--	carbonate dominant interval. Some angular clasts of altered host rock with disseminated sulphides.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
204.45	204.80	0.35	VEN	VEIN	--	host rock and sulphides, sulphide dominant vein? More gal than intervals above. Mottled mass of carboante and sulphides, roughly equal parts gal, sphal, py. Possibly aspy in this interval
204.80	205.37	0.57	GRD	VEIN	--	altered host rock. Minor sulphide veinlets. Some disseminated sulphides (Py)
205.37	205.64	0.27	VEN	VEIN	--	vein containing carbonate and sulphides and clasts of sulphide disseminated altered host rock. Clasts of fine grained grey quartz/chalcedony in carbonate. Approximately equal parts Py, Sphal, Gal, and Aspy.
205.64	207.00	1.36	GRD	GRDA	FG	same as general lith
207.00	214.30	7.30	GRD	GRD	FG	unaltered veinlets of sulphide at 207.95m, bands of disseminated py at 211.3m, qtz py veinlet at 209.25m
214.30	214.75	0.45	GRD	GRD	FG	alteration envelope around 5cm interval of faulted material with disseminated Py, and small swarm of veinlets continaing Py and minor sphal
214.75	217.65	2.90	GRD	GRD	FG	unaltered grd with small vein at 217.37m at 40 deg tca with bands of Py, sphal, and gal, weak alteration halo
217.65	222.50	4.85	GRD	GRD	MG	same as general lith

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.10	1.10	CAS	--	casing							
1.10	2.54	1.44	OVB	--	overburden. Light brown/buff interval below competent GRD at 3.10, possibly volcanic ash? Possibly very clay altered fine grained GRD. GRD more likely.							
2.54	58.65	56.11	GRD	FG	generally competent GRD. Some bleached intervals associated with unmineralized qtz carb veins. Mineralized veins at 52m. Smll shear/strained zone at 54m.							
						MD	GY	MA	CLY	1I		
						MD	BL	EN				
58.65	64.60	5.95	GRD	FG	Altered brecciated grd and veins							
						LT	GN	FR	SER	2I	Py	1
						MD	GY	SH	CLY	2I	Sp	1
											Gn	1
64.60	81.72	17.12	GRD	FG	broadly unaltered grd with common intervals of intense alteration arouns small commonly mineralized veins.							
											Sp	1
						MD	GY				Py	1
						MD	GN				Gn	1
81.72	99.30	17.58	GRD	FG	broken in top half of interval increasing in competency down hole. Occasional small qtz-hematite-carbonate vein(lets) which trend 60 deg TCA. Sheared, weakly alterd interval at 89m. ~10cm of veineing at 89.8m with minor pyrite.							
						MD	GN	MA				
						MD	GY	FR	CHL	1I	Py	0.5
99.30	106.75	7.45	BXA	--	Relithified fault zone of altered brecciated fine grained GRD. Light green grey colour. Cut by fractures at ~57 and 18 deg TCA. Some patchy hematite and silica alteration. Minor mineralized veins							
									SIL	1I		
						LT	GY	BX	CLY	3I		
						LT	BF		HEM	1I		
						LT	GN	RX	CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
106.75	108.62	1.87	GRD	FG	altered GRD below breccia zone. Mostly banded alteration around small veinlets and fractures with a larger brecciated vein (~5cm) at 108.5m and a second rhodochrosite-sulphide vein at 108.42m. Banding alteration has 3% pyrite disseminated in bands. Distinct band of ~70% Py around fracturte at 108.28m.							
						MD	GY		SER	2I	Py	1
						LT	GY	BN	BLE	2I	Py	3
108.62	123.84	15.22	GRD	FG	unlatered grd, some small veinlets w assocaited alteration envelopes							
						MD	GY	MA				
123.84	124.69	0.85	GRD	FG	altered envelope around weakly mineralized brecciated qtz carboante vein							
						LT	WH					
						LT	GN					
						LT	GY	EN	CLY	2I	Py	0.5
124.69	134.92	10.23	GRD	FG	unaltered grd, small fracture at 55 deg tca at 126m. Xenolith(?) at 132.3m. Possibly a relic of coarse grained grd							
						DK	GY	MA				
134.92	135.21	0.29	GRD	FG	alteration envelope around 4cm vein at 55 deg tca							
						LT	GN		SER	2I		
						LT	GY	EN	CLY	2I	Py	0.5
135.21	142.18	6.97	GRD	FG	unaltered GRD, locally broken and moderately clay altered at 138..2-138.68m, xenolith(?) at 139m							
								BN				
						MD	GY	MA	CLY	1I		
142.18	144.54	2.36	GRD	CG	alteration envelope around small viens							
						LT	GY	MA	CLY	2I	Py	0.5
						LT	GN	XL	SER	2I		
144.54	154.32	9.78	GRD	FG	unaltered grd. Silicified at top of interval. Small xenolith near bottom of interval.							
						MD	GN					
						MD	GY	MA				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
154.32	159.90	5.58	GRD	FG	altered grd. Bands of disseminate py near top of interval. Fractures at ~25 deg thoughout interval. Minor moderately mineralized veinlets at 48 deg tca at 155.25m.							
						LT	BF					
						LT	GN	FR				
						LT	GY	BN	SER	3I	Py	1
159.90	168.45	8.55	QFP	FG	qfp dyke. Feldspar phenocrysts generally ~5mm, but up to 3cm, quartz minor, minor muscovite phenocrysts and trace Py							
						LT	GY	MA	CLY	2I	Py	0.1
						LT	BF		SER	1I		
						LT	GN	PO	CHL	1I		
168.45	170.10	1.65	GRD	FG	altered and faulted interval below dyke, faulted section contains some minor vein material with some sulphides.							
						LT	GY	FR	CLY	3I	Py	0.5
						LT	BF	FL	SER	2I		
						LT	GN					
170.10	196.25	26.15	GRD	MG	unaltered GRD with some small envelopes of alteration around some small veinlet swarms. Fine grained from top of interval until 182.5m then transitioning into medium to coarse grained grd.							
						MD	GN	MA	CHL	2I		
						MD	GY					
196.25	201.00	4.75	GRD	MG	medium to fine grained GRD, locally rubble at top of interval and patchy alteration through out interval.							
						MD	GY	PA	SER	1I	Py	0.5
						MD	GN	MA	CLY	1I		
201.00	205.64	4.64	VEN	--	Intervals of vein material and altered host GRD. White carbonate-Rhodochrosite-Sphal-Py-Gal, with Aspy appearing only in the lowest vein interval. Summing of components over this interval, we get ~85cm of 'massive' sulphides, ~90cm of dominantly carbonate, and 2.5m of altered host rock containing ~5% disseminated sulphides, dominantly Py. Veins appear to trend 50-65 deg tca.							
						LT	GY	FR			Sp	8
						LT	GN				Gn	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH	ZO	SER	4I	Py	10
205.64	207.00	1.36	GRD	FG	altered grd with minor veinlets of gal-sphal, bands of disseminated Py							
207.00	217.65	10.65	GRD	FG	generally unaltered grd, some altered envelopes around minor veins, sometimes well mineralized with sphal-gal or Py							
						MD	GY	MA	SER	2I	Py	1
						MD	GN	EN			Gn	0.5
											Sp	0.5
217.65	222.50	4.85	GRD	MG	unaltered grd with minor patchy alteration. EOH.							
						LT	GN					
						MD	GY	MA				

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.10	1.10	0	0	0.00	0	--	--	--	Casing no core recovered
1.10	1.52	0.42	0.42	100	0.00	0	--	--	6W	Organics at top of hole.
1.52	4.57	3.05	2.2	72	0.51	17	--	3H	6W	Some competent core with ash? Or gouge 25 cm wide.
4.57	6.10	1.53	1.23	80	1.23	80	--	4H	3W	
6.10	7.62	1.52	1.11	73	0.10	7	--	4H	3W	
7.62	9.14	1.52	1.47	97	1.00	66	--	3H	3W	
9.14	10.67	1.53	1.52	99	1.44	94	--	4H	3W	Joints at all different angles
10.67	12.19	1.52	1.41	93	0.79	52	--	3H	3W	
12.19	13.72	1.53	1.46	95	1.18	77	--	4H	3W	
13.72	15.24	1.52	1.39	91	0.72	47	--	4H	3W	
15.24	16.76	1.52	1.52	100	1.36	89	--	4H	3W	
16.76	18.29	1.53	1.5	98	1.38	90	--	4H	2W	
18.29	19.81	1.52	1.4	92	1.30	86	--	4H	3W	
19.81	21.34	1.53	1.52	99	1.41	92	--	4H	3W	
21.34	22.86	1.52	1.44	95	1.19	78	--	4H	3W	
22.86	24.38	1.52	1.45	95	1.40	92	--	4H	3W	
24.38	25.91	1.53	1.53	100	1.46	95	--	4H	3W	
25.91	27.43	1.52	1.41	93	1.17	77	--	4H	3W	
27.43	28.96	1.53	1.46	95	1.20	78	--	4H	3W	
28.96	30.48	1.52	1.52	100	1.23	81	--	4H	2W	
30.48	32.00	1.52	1.26	83	1.05	69	--	3H	3W	
32.00	33.53	1.53	1.49	97	1.16	76	--	3H	2W	
33.53	35.05	1.52	1.44	95	1.33	88	--	3H	2W	
35.05	36.58	1.53	1.35	88	1.14	75	--	3H	2W	
36.58	38.10	1.52	1.4	92	1.35	89	--	4H	2W	
38.10	39.62	1.52	1.5	99	1.17	77	--	4H	2W	
39.62	41.15	1.53	1.42	93	1.04	68	--	4H	3W	
41.15	42.67	1.52	1.4	92	1.12	74	--	4H	3W	
42.67	44.20	1.53	1.47	96	1.00	65	--	4H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.72	1.52	1.5	99	0.92	61	--	4H	3W	
45.72	47.24	1.52	1.5	99	0.89	59	--	4H	3W	
47.24	50.29	3.05	1.45	48	0.37	12	--	4H	2W	
50.29	51.82	1.53	1.44	94	0.90	59	--	4H	2W	
51.82	53.34	1.52	1.48	97	1.32	87	--	4H	2W	
53.34	54.86	1.52	1.48	97	1.22	80	--	4H	1W	
54.86	56.39	1.53	1.43	93	1.10	72	--	4H	1W	
56.39	57.91	1.52	1.52	100	1.52	100	--	5H	1W	
57.91	59.44	1.53	1.36	89	0.91	59	--	4H	1W	
59.44	60.96	1.52	1.13	74	0.62	41	--	2H	1W	Fault zone with gouge along fracute surfaces.
60.96	62.48	1.52	1.01	66	0.50	33	--	2H	1W	Fault zone with rubble.
62.48	64.01	1.53	1.44	94	0.45	29	--	3H	1W	Still fault zone a little broken up.
64.01	65.53	1.52	1.27	84	0.23	15	--	3H	1W	In a breccia zone with bands up to 10 cm wide.
65.53	67.06	1.53	1.47	96	0.82	54	--	3H	1W	
67.06	68.58	1.52	1.5	99	1.37	90	--	4H	1W	
68.58	70.10	1.52	1.35	89	0.72	47	--	4H	1W	
70.10	71.63	1.53	1.47	96	1.33	87	--	4H	1W	
71.63	73.15	1.52	1.34	88	1.09	72	--	4H	1W	
73.15	74.68	1.53	1.44	94	1.05	69	--	4H	1W	
74.68	76.20	1.52	1.36	89	1.36	89	--	4H	1W	
76.20	77.72	1.52	1.52	100	1.46	96	--	5H	1W	
77.72	79.25	1.53	1.34	88	1.05	69	--	4H	1W	
79.25	80.77	1.52	1.47	97	0.43	28	--	4H	1W	
80.77	82.30	1.53	1.46	95	1.46	95	--	3H	1W	Altered zone with some minor gouge and rubble.
82.30	83.82	1.52	1.5	99	1.50	99	--	4H	1W	
83.82	85.34	1.52	1.34	88	1.34	88	--	4H	1W	
85.34	86.87	1.53	1.15	75	0.61	40	--	4H	1W	Several fractures sub parallel tca running along core.
86.87	88.39	1.52	1.1	72	0.14	9	--	4H	2W	Rubble zone with calcite and limonite occuring along fracture surfaces.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
88.39	89.92	1.53	1.34	88	0.51	33	--	4H	2W	
89.92	91.44	1.52	1.37	90	0.83	55	--	4H	2W	
91.44	92.96	1.52	1.49	98	1.15	76	--	4H	2W	
92.96	94.49	1.53	1.4	92	1.19	78	--	5H	1W	
94.49	96.01	1.52	1.37	90	1.15	76	--	5H	1W	
96.01	97.51	1.50	1.5	100	1.46	97	--	5H	1W	
97.51	99.06	1.55	1.52	98	1.34	86	--	4H	1W	
99.06	100.58	1.52	1.18	78	0.80	53	--	4H	1W	
100.58	102.11	1.53	1.48	97	1.06	69	--	4H	1W	
102.11	103.63	1.52	1.39	91	1.33	88	--	4H	1W	
103.63	105.16	1.53	1.45	95	1.17	76	--	4H	1W	
105.16	106.68	1.52	1.34	88	0.92	61	--	4H	1W	
106.68	108.20	1.52	1.4	92	1.03	68	--	4H	1W	
108.20	109.73	1.53	1.47	96	1.45	95	--	5H	1W	
109.73	111.25	1.52	1.46	96	1.30	86	--	4H	1W	
111.25	112.78	1.53	1.49	97	1.32	86	--	5H	1W	
112.78	114.30	1.52	1.5	99	1.30	86	--	5H	1W	
114.30	115.82	1.52	1.47	97	0.91	60	--	5H	1W	
115.82	117.32	1.50	1.49	99	1.31	87	--	4H	1W	
117.32	118.87	1.55	1.4	90	0.53	34	--	5H	1W	
118.87	120.40	1.53	1.33	87	0.94	61	--	5H	1W	
120.40	121.92	1.52	1.48	97	1.24	82	--	5H	1W	
121.92	123.44	1.52	1.4	92	1.01	66	--	4H	1W	
123.44	124.97	1.53	1.53	100	1.24	81	--	5H	1W	
124.97	126.49	1.52	1.46	96	1.26	83	--	5H	1W	
126.49	128.02	1.53	1.45	95	1.29	84	--	4H	1W	
128.02	129.54	1.52	1.45	95	1.09	72	--	4H	1W	
129.54	131.06	1.52	1.47	97	1.38	91	--	5H	1W	
131.06	132.59	1.53	1.31	86	0.80	52	--	3H	1W	
132.59	134.11	1.52	1.5	99	1.14	75	--	4H	1W	
134.11	135.64	1.53	1.42	93	1.20	78	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
135.64	137.16	1.52	1.4	92	0.93	61	--	4H	1W	
137.16	138.68	1.52	1.07	70	0.58	38	--	4H	1W	
138.68	140.21	1.53	1.44	94	1.21	79	--	4H	1W	
140.21	141.73	1.52	1.51	99	1.36	89	--	4H	1W	
141.73	143.26	1.53	1.48	97	0.98	64	--	4H	1W	
143.26	144.78	1.52	1.47	97	1.40	92	--	4H	1W	
144.78	146.30	1.52	1.5	99	1.50	99	--	5H	1W	
146.30	147.83	1.53	1.48	97	1.48	97	--	5H	1W	
147.83	149.35	1.52	1.44	95	1.20	79	--	5H	1W	
149.35	150.88	1.53	1.29	84	0.47	31	--	5H	1W	
150.88	152.40	1.52	1.01	66	0.81	53	--	5H	1W	Hole was reduced from HTW down to NTW at the end of this interval at the block 152.4 m.
152.40	153.92	1.52	1.5	99	1.47	97	--	3H	1W	
153.92	156.97	3.05	3	98	1.91	63	--	3H	1W	
156.97	160.02	3.05	2.46	81	0.86	28	--	3H	1W	
160.02	163.07	3.05	2.86	94	0.98	32	--	4H	1W	
163.07	166.12	3.05	2.71	89	2.10	69	--	3H	1W	
166.12	168.86	2.74	2.27	83	1.40	51	--	4H	1W	
168.86	170.69	1.83	1.71	93	0.80	44	--	4H	1W	Fault breccia zone.
170.69	173.74	3.05	2.89	95	2.47	81	--	4H	1W	
173.74	176.78	3.04	2.94	97	2.11	69	--	4H	1W	Lots of breaks along core axis.
176.78	179.83	3.05	2.98	98	2.45	80	--	5H	1W	Lots of shallowly dipping breaks along core axis.
179.83	182.88	3.05	3	98	2.19	72	--	4H	1W	
182.88	185.93	3.05	2.7	89	1.83	60	--	4H	1W	
185.93	188.98	3.05	3.05	100	2.84	93	--	4H	1W	
188.98	192.02	3.04	3.04	100	2.95	97	--	4H	1W	
192.02	195.07	3.05	2.94	96	2.66	87	--	5H	1W	
195.07	198.12	3.05	2.89	95	1.96	64	--	4H	1W	
198.12	201.17	3.05	2.74	90	2.14	70	--	4H	1W	
201.17	204.22	3.05	2.35	77	0.80	26	--	4H	1W	Fault zone with rubble gouge and quartz veining/ mineralization.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
204.22	207.26	3.04	2.8	92	1.35	44	--	4H	1W	Fault zone continued same as above.
207.26	210.31	3.05	2.75	90	1.30	43	--	3H	1W	Common fracturing along core axis.
210.31	213.36	3.05	2.82	92	1.66	54	--	4H	1W	
213.36	216.41	3.05	3	98	1.17	38	--	4H	1W	
216.41	219.46	3.05	2.89	95	1.86	61	--	4H	1W	Zone with lots of fracturing.
219.46	222.50	3.04	2.82	93	2.18	72	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
3	35.27	GRD	
4	46.6	GRD	
5	44.4	GRD	
6	22.04	GRD	
7	35.7	GRD	
8	48.8	GRD	
9	51.04	GRD	
10	45.93	GRD	
11	49.88	GRD	
12	36.24	GRD	
13	41.56	GRD	
14	49.49	GRD	
15	0.774	GRD	
16	0.703	GRD	
17	53.63	GRD	
18	47.43	GRD	
19	49.22	GRD	
20	48.78	GRD	
21	51.47	GRD	
22	50.7	GRD	
23	58.64	GRD	
24	54.72	GRD	
25	48.14	GRD	
26	50.55	GRD	
27	49.96	GRD	
28	18.15	GRD	
29	57.52	GRD	
30	56.41	GRD	
31	50.79	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
32	56.16	GRD	
33	23.66	GRD	
34	22.4	GRD	
35	50.76	GRD	
36	4.09	GRD	
37	39.9	GRD	
38	40.3	GRD	
39	5.87	GRD	
40	4.89	GRD	
41	56	GRD	
42	54.8	GRD	
43	61.2	GRD	
44	60.4	GRD	
45	54.5	GRD	
46	60.6	GRD	
47	46.5	GRD	
48	61.8	GRD	
49	50	GRD	
50	55	GRD	
51	64.6	GRD	
52	4.28	GRD	
53	62.1	GRD	
54	70.3	GRD	
55	66.5	GRD	
56	36.4	GRD	
57	80.9	GRD	
58	78.87	GRD	
59	1.04	GRD	
60	0.339	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
61	0.245	GRD	
62	0.769	GRD	
63	0.953	GRD	
64	0.552	GRD	
65	53.8	GRD	
66	51.8	GRD	
67	15.2	GRD	
68	53.7	GRD	
69	0.453	GRD	
70	44	GRD	
71	57.4	GRD	
72	2.51	GRD	
73	49	GRD	
74	0.619	GRD	
75	4.52	GRD	
76	48.3	GRD	
77	61.9	GRD	
78	38.1	GRD	
79	67.2	GRD	
80	0.596	GRD	
81	0.365	GRD	
82	13.4	GRD	
83	50.6	GRD	
84	8.33	GRD	
85	51.3	GRD	
86	60.2	GRD	
87	27.6	GRD	
88	54.4	GRD	
89	52.1	GRD	
90	55.1	GRD	
91	65.2	GRD	
92	67.2	GRD	
93	66.6	GRD	
94	59.7	GRD	
95	63.7	GRD	
96	45.1	GRD	
97	62.4	GRD	
98	62.8	GRD	
99	51.5	GRD	
100	0.693	BXA	
101	0.273	BXA	
102	0.486	BXA	
103	0.259	BXA	
104	0.324	BXA	
105	0.871	BXA	
106	0.311	BXA	
107	0.419	GRD	
108	0.917	GRD	
109	62.4	GRD	
110	68.7	GRD	
111	65.2	GRD	
112	67.1	GRD	
113	65.9	GRD	
114	61.2	GRD	
115	69.3	GRD	
116	67.9	GRD	
117	51.8	GRD	
118	3.65	GRD	
119	66.9	GRD	
120	65.6	GRD	
121	61.9	GRD	
122	58.3	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
123	53.8	GRD	
124	0.812	GRD	
125	60.1	GRD	
126	68.6	GRD	
127	61.6	GRD	
128	65.8	GRD	
129	61	GRD	
130	61.3	GRD	
131	61.4	GRD	
132	51.5	GRD	
133	55.7	GRD	
134	61.4	GRD	
135	0.754	GRD	
136	60.4	GRD	
137	60.6	GRD	
138	45.4	GRD	
139	55.3	GRD	
140	47.8	GRD	
141	48.9	GRD	
142	42.1	GRD	
143	2.52	GRD	
144	0.742	GRD	
145	47.5	GRD	
146	51.8	GRD	
147	44.8	GRD	
148	45.6	GRD	
149	40.5	GRD	
150	29.6	GRD	
151	44.4	GRD	
152	31	GRD	
153	29.5	GRD	
154	34.8	GRD	
155	0.879	GRD	
156	0.393	GRD	
157	0.662	GRD	
158	0.271	GRD	
159	0.314	GRD	
160	0.432	QFP	
161	0.408	QFP	
162	0.203	QFP	
163	0.208	QFP	
164	0.229	QFP	
165	0.381	QFP	
166	0.241	QFP	
167	0.304	QFP	
168	0.213	QFP	
169	0.424	GRD	
170	1.512	GRD	
171	13.21	GRD	
172	64.84	GRD	
173	64.97	GRD	
174	66.45	GRD	
175	67.49	GRD	
176	61.59	GRD	
177	1.923	GRD	
178	76.54	GRD	
179	39.97	GRD	
180	52	GRD	
181	50.23	GRD	
182	60.17	GRD	
183	71.9	GRD	
184	70.44	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
185	55.76	GRD	
186	75.53	GRD	
187	69.02	GRD	
188	2.365	GRD	
189	56.09	GRD	
190	7.858	GRD	
191	64.13	GRD	
192	67.67	GRD	
193	60.3	GRD	
194	70.18	GRD	
195	38.55	GRD	
196	55.29	GRD	
197	0.773	GRD	
198	0.684	GRD	
199	0.72	GRD	
200	2.88	GRD	
201	0.264	GRD	
201	0.264	VEN	
202	0.217	VEN	
203	1.086	VEN	
204	0.33	VEN	
205	0.73	VEN	
206	0.799	GRD	
207	1.186	GRD	
207	1.186	GRD	
208	0.837	GRD	
209	25.53	GRD	
210	53.52	GRD	
211	57.8	GRD	
212	16.23	GRD	
213	46.17	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
214	34.6	GRD	
215	43.63	GRD	
216	44.65	GRD	
217	20.55	GRD	
218	49	GRD	
219	51.83	GRD	
220	38.67	GRD	
221	33.9	GRD	
222	39.3	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599451	☐	20-009	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599469	☐	20-010	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599482	☐	20-010	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599488	☐	20-010	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599510	☐	20-012	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599517	☐	20-012	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599519	☐	20-012	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599443	☐	20-009	Low Grade		☑	☐	☐
14.89	15.64	0.75	GRD	0.75	100	W599439	☐	20-009	Low Grade		☐	☐	☐
15.64	16.22	0.58	GRD	0.58	100	W599440	☐	20-009	Low Grade		☐	☐	☐
35.42	36.82	1.40	GRD	1.28	91	W599441	☐	20-009	Low Grade		☐	☐	☐
36.82	38.00	1.18	GRD	1.04	88	W599442	☐	20-009	Low Grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.44	96	W599444	☐	20-009	Low Grade		☐	☐	☐
39.50	41.00	1.50	GRD	1.41	94	W599445	☐	20-009	Low Grade		☐	☐	☐
41.00	42.50	1.50	GRD	1.50	100	W599446	☐	20-009	Low Grade		☐	☐	☐
42.50	44.00	1.50	GRD	1.33	89	W599447	☐	20-009	Low Grade		☐	☐	☐
44.00	44.90	0.90	GRD	0.86	96	W599448	☐	20-009	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
51.00	51.82	0.82	GRD	0.78	95	W599449	☐	20-009	Low Grade		☐	☐	☐
51.82	52.32	0.50	GRD	0.48	96	W594206	☐	20-007	High Grade		☐	☐	☐
52.32	53.50	1.18	GRD	1.16	98	W599450	☐	20-009	Low Grade		☐	☐	☐
53.50	55.00	1.50	GRD	1.50	100	W599452	☐	20-009	Low Grade		☐	☐	☐
55.00	56.50	1.50	GRD	1.50	100	W599453	☐	20-009	Low Grade		☐	☐	☐
55.00	56.50	1.50	GRD	1.50	100	W599454	☐	20-009	Low Grade		☐	☑	☐
56.50	58.00	1.50	GRD	1.50	100	W599455	☐	20-009	Low Grade		☐	☐	☐
58.00	59.50	1.50	GRD	1.42	95	W599456	☐	20-009	Low Grade		☐	☐	☐
59.50	61.00	1.50	GRD	1.30	87	W594207	☐	20-007	High Grade		☐	☐	☐
59.50	61.00	1.50	GRD	1.30	87	W594208	☐	20-007	High Grade		☐	☑	☐
61.00	61.50	0.50	GRD	0.49	98	W594209	☐	20-007	High Grade		☐	☐	☐
61.50	62.50	1.00	GRD	0.63	63	W594210	☐	20-007	High Grade		☐	☐	☐
62.50	63.90	1.40	GRD	1.14	81	W594211	☐	20-007	High Grade		☐	☐	☐
63.90	64.60	0.70	GRD	0.52	74	W594212	☐	20-007	High Grade		☐	☐	☐
64.60	66.00	1.40	GRD, GRD	1.27	91	W599457	☐	20-009	Low Grade		☐	☐	☐
66.00	67.50	1.50	GRD	1.36	91	W599458	☐	20-009	Low Grade		☐	☐	☐
67.50	68.40	0.90	GRD	0.88	98	W599459	☐	20-009	Low Grade		☐	☐	☐
68.40	69.40	1.00	GRD	0.93	93	W594213	☐	20-007	High Grade		☐	☐	☐
69.40	70.70	1.30	GRD	1.23	95	W599460	☐	20-009	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
70.70	72.20	1.50	GRD	1.34	89	W599461	☐	20-009	Low Grade		☐	☐	☐
70.70	72.20	1.50	GRD	1.34	89	W599462	☐	20-009	Low Grade		☐	☐	☑
72.20	73.70	1.50	GRD	1.42	95	W599463	☐	20-009	Low Grade		☐	☐	☐
73.70	74.50	0.80	GRD	0.70	88	W594214	☐	20-007	High Grade		☐	☐	☐
74.50	75.15	0.65	GRD	0.58	89	W594215	☐	20-007	High Grade		☐	☐	☐
75.15	75.65	0.50	GRD	0.50	100	W594216	☐	20-007	High Grade		☐	☐	☐
75.65	77.00	1.35	GRD	1.26	93	W599464	☐	20-009	Low Grade		☐	☐	☐
77.00	78.50	1.50	GRD	1.26	84	W599465	☐	20-010	Low Grade		☐	☐	☐
78.50	79.75	1.25	GRD	1.12	90	W599466	☐	20-010	Low Grade		☐	☐	☐
79.75	80.42	0.67	GRD	0.62	93	W594217	☐	20-007	High Grade		☐	☐	☐
80.42	81.72	1.30	GRD	1.24	95	W594218	☐	20-007	High Grade		☐	☐	☐
80.42	81.72	1.30	GRD	1.24	95	W594219	☐	20-007	High Grade		☐	☑	☐
81.72	83.00	1.28	GRD, GRD	1.04	81	W599467	☐	20-010	Low Grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.42	95	W599468	☐	20-010	Low Grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.20	80	W599470	☐	20-010	Low Grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.12	75	W599471	☐	20-010	Low Grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.04	69	W599472	☐	20-010	Low Grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.04	69	W599473	☐	20-010	Low Grade		☐	☑	☐
89.00	90.00	1.00	GRD	0.88	88	W594220	☐	20-007	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
90.00	91.02	1.02	GRD	0.80	78	W599474	☐	20-010	Low Grade		☐	☐	☐
99.00	100.50	1.50	GRD	1.42	95	W599475	☐	20-010	Low Grade		☐	☐	☐
100.50	102.00	1.50	BXA	1.50	100	W599476	☐	20-010	Low Grade		☐	☐	☐
102.00	103.06	1.06	BXA	1.06	100	W594221	☐	20-007	High Grade		☐	☐	☐
103.06	104.40	1.34	BXA	1.34	100	W599477	☐	20-010	Low Grade		☐	☐	☐
104.40	105.90	1.50	BXA	1.50	100	W599478	☐	20-010	Low Grade		☐	☐	☐
105.90	106.75	0.85	BXA	0.80	94	W599479	☐	20-010	Low Grade		☐	☐	☐
106.75	107.75	1.00	GRD, BXA	1.00	100	W599480	☐	20-010	Low Grade		☐	☐	☐
107.75	108.62	0.87	GRD	0.87	100	W594222	☐	20-007	High Grade		☐	☐	☐
108.62	109.73	1.11	GRD, GRD	1.10	99	W599481	☐	20-010	Low Grade		☐	☐	☐
123.00	123.84	0.84	GRD	0.84	100	W599483	☐	20-010	Low Grade		☐	☐	☐
123.84	124.69	0.85	GRD, GRD	0.85	100	W594223	☐	20-007	High Grade		☐	☐	☐
124.69	126.00	1.31	GRD, GRD	1.30	99	W599484	☐	20-010	Low Grade		☐	☐	☐
134.90	135.40	0.50	GRD	0.50	100	W599485	☐	20-010	Low Grade		☐	☐	☐
142.17	143.50	1.33	GRD	1.30	98	W599486	☐	20-010	Low Grade		☐	☐	☐
143.50	144.00	0.50	GRD	0.50	100	W599487	☐	20-010	Low Grade		☐	☐	☐
144.00	144.54	0.54	GRD	0.54	100	W599489	☐	20-010	Low Grade		☐	☐	☐
154.00	155.50	1.50	GRD	1.50	100	W599490	☐	20-010	Low Grade		☐	☐	☐
155.50	157.00	1.50	GRD	1.50	100	W599491	☐	20-010	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
157.00	158.50	1.50	GRD	1.47	98	W599492	☐	20-010	Low Grade		☐	☐	☐
158.50	159.90	1.40	GRD	1.35	96	W599493	☐	20-010	Low Grade		☐	☐	☐
159.90	161.00	1.10	GRD, QFP	1.10	100	W599494	☐	20-010	Low Grade		☐	☐	☐
167.00	168.50	1.50	QFP	1.50	100	W599495	☐	20-010	Low Grade		☐	☐	☐
168.50	169.30	0.80	GRD	0.78	98	W599496	☐	20-010	Low Grade		☐	☐	☐
169.30	170.10	0.80	GRD	0.78	98	W599497	☐	20-010	Low Grade		☐	☐	☐
169.30	170.10	0.80	GRD	0.78	98	W599498	☐	20-010	Low Grade		☐	☐	☑
170.10	171.60	1.50	GRD, GRD	1.50	100	W599499	☐	20-010	Low Grade		☐	☐	☐
176.70	177.30	0.60	GRD	0.57	95	W599500	☐	20-010	Low Grade		☐	☐	☐
195.00	196.25	1.25	GRD	1.23	98	W599501	☐	20-010	Low Grade		☐	☐	☐
196.25	197.75	1.50	GRD, GRD	1.50	100	W599502	☐	20-010	Low Grade		☐	☐	☐
197.75	198.30	0.55	GRD	0.55	100	W599503	☐	20-010	Low Grade		☐	☐	☐
198.30	199.50	1.20	GRD	1.18	98	W599504	☐	20-010	Low Grade		☐	☐	☐
199.50	200.40	0.90	GRD	0.90	100	W599505	☐	20-012	Low Grade		☐	☐	☐
200.40	201.00	0.60	GRD	0.60	100	W594224	☐	20-007	High Grade		☐	☐	☐
201.00	201.75	0.75	VEN, GRD	0.75	100	W594225	☐	20-007	High Grade		☐	☐	☐
201.75	202.60	0.85	VEN	0.85	100	W594226	☐	20-007	High Grade		☐	☐	☐
202.60	203.55	0.95	VEN	0.95	100	W594227	☐	20-011	High Grade		☐	☐	☐
203.55	204.50	0.95	VEN	0.95	100	W594228	☐	20-011	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
204.50	205.00	0.50	VEN	0.50	100	W594229	☐	20-011	High Grade		☐	☐	☐
205.00	205.65	0.65	VEN	0.65	100	W594230	☐	20-011	High Grade		☐	☐	☐
205.65	206.65	1.00	GRD	1.00	100	W594231	☐	20-011	High Grade		☐	☐	☐
206.65	208.00	1.35	GRD	1.35	100	W599506	☐	20-012	Low Grade		☐	☐	☐
208.00	209.50	1.50	GRD	1.50	100	W599507	☐	20-012	Low Grade		☐	☐	☐
209.50	211.00	1.50	GRD	1.50	100	W599508	☐	20-012	Low Grade		☐	☐	☐
211.00	211.66	0.66	GRD	0.66	100	W599509	☐	20-012	Low Grade		☐	☐	☐
211.66	213.00	1.34	GRD	1.34	100	W599511	☐	20-012	Low Grade		☐	☐	☐
213.00	214.20	1.20	GRD	1.20	100	W599512	☐	20-012	Low Grade		☐	☐	☐
214.20	214.80	0.60	GRD	0.60	100	W599513	☐	20-012	Low Grade		☐	☐	☐
214.80	216.20	1.40	GRD	1.40	100	W599514	☐	20-012	Low Grade		☐	☐	☐
216.20	217.20	1.00	GRD	1.00	100	W599515	☐	20-012	Low Grade		☐	☐	☐
217.20	217.70	0.50	GRD	0.50	100	W599516	☐	20-012	Low Grade		☐	☐	☐
217.70	219.20	1.50	GRD	1.50	100	W599518	☐	20-012	Low Grade		☐	☐	☐
219.20	220.00	0.80	GRD	0.80	100	W599520	☐	20-012	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-009	W599443	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-009	W599451	0.00	0.00	2.86	1220	☐	☐	☐	☑ Klaza2020-B	
20-010	W599469	0.00	0.00	0.59	530	☐	☐	☐	☑ Klaza2020-A	
20-010	W599482	0.00	0.00	0.00	30	☐	☐	☑	☐	
20-010	W599488	0.00	0.00	2.79	590	☐	☐	☐	☑ Klaza2020-B	
20-012	W599510	0.00	0.00	0.61	920	☐	☐	☐	☑ Klaza2020-A	
20-012	W599517	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-012	W599519	0.00	0.00	2.85	2350	☐	☐	☐	☑ Klaza2020-B	
20-009	W599439	14.89	15.64	0.00	990	☐	☐	☐	☐	
20-009	W599440	15.64	16.22	0.03	2290	☐	☐	☐	☐	
20-009	W599441	35.42	36.82	0.00	1220	☐	☐	☐	☐	
20-009	W599442	36.82	38.00	0.01	1000	☐	☐	☐	☐	
20-009	W599444	38.00	39.50	0.00	1150	☐	☐	☐	☐	
20-009	W599445	39.50	41.00	0.00	1140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-009	W599446	41.00	42.50	0.00	1350	☐	☐	☐	☐	
20-009	W599447	42.50	44.00	0.00	1310	☐	☐	☐	☐	
20-009	W599448	44.00	44.90	0.01	960	☐	☐	☐	☐	
20-009	W599449	51.00	51.82	0.00	1030	☐	☐	☐	☐	
20-007	W594206	51.82	52.32	0.04	400	☐	☐	☐	☐	
20-009	W599450	52.32	53.50	0.09	1030	☐	☐	☐	☐	
20-009	W599452	53.50	55.00	0.00	1130	☐	☐	☐	☐	
20-009	W599453	55.00	56.50	0.04	1090	☐	☐	☐	☐	
20-009	W599454	55.00	56.50	0.04	1110	☑	☐	☐	☐	
20-009	W599455	56.50	58.00	0.00	1210	☐	☐	☐	☐	
20-009	W599456	58.00	59.50	0.00	950	☐	☐	☐	☐	
20-007	W594207	59.50	61.00	0.65	420	☐	☐	☐	☐	
20-007	W594208	59.50	61.00	0.65	420	☑	☐	☐	☐	
20-007	W594209	61.00	61.50	7.08	180	☐	☐	☐	☐	
20-007	W594210	61.50	62.50	0.06	530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-007	W594211	62.50	63.90	0.01	320	☐	☐	☐	☐	
20-007	W594212	63.90	64.60	0.18	740	☐	☐	☐	☐	
20-009	W599457	64.60	66.00	0.00	1150	☐	☐	☐	☐	
20-009	W599458	66.00	67.50	0.00	1250	☐	☐	☐	☐	
20-009	W599459	67.50	68.40	0.00	1140	☐	☐	☐	☐	
20-007	W594213	68.40	69.40	0.75	510	☐	☐	☐	☐	
20-009	W599460	69.40	70.70	0.00	1120	☐	☐	☐	☐	
20-009	W599461	70.70	72.20	0.05	960	☐	☐	☐	☐	
20-009	W599462	70.70	72.20	0.05	960	☐	☑	☐	☐	
20-009	W599463	72.20	73.70	0.00	1110	☐	☐	☐	☐	
20-007	W594214	73.70	74.50	0.59	650	☐	☐	☐	☐	
20-007	W594215	74.50	75.15	0.01	1070	☐	☐	☐	☐	
20-007	W594216	75.15	75.65	0.52	400	☐	☐	☐	☐	
20-009	W599464	75.65	77.00	0.01	1200	☐	☐	☐	☐	
20-010	W599465	77.00	78.50	0.01	1290	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-010	W599466	78.50	79.75	0.01	1240	☐	☐	☐	☐	
20-007	W599217	79.75	80.42	0.10	740	☐	☐	☐	☐	
20-007	W599218	80.42	81.72	0.31	560	☐	☐	☐	☐	
20-007	W599219	80.42	81.72	0.35	530	☑	☐	☐	☐	
20-010	W599467	81.72	83.00	0.01	1280	☐	☐	☐	☐	
20-010	W599468	83.00	84.50	0.01	1320	☐	☐	☐	☐	
20-010	W599470	84.50	86.00	0.00	1350	☐	☐	☐	☐	
20-010	W599471	86.00	87.50	0.00	1080	☐	☐	☐	☐	
20-010	W599472	87.50	89.00	0.01	1030	☐	☐	☐	☐	
20-010	W599473	87.50	89.00	0.01	990	☑	☐	☐	☐	
20-007	W599220	89.00	90.00	0.00	1000	☐	☐	☐	☐	
20-010	W599474	90.00	91.02	0.01	1300	☐	☐	☐	☐	
20-010	W599475	99.00	100.50	0.01	800	☐	☐	☐	☐	
20-010	W599476	100.50	102.00	0.02	190	☐	☐	☐	☐	
20-007	W599221	102.00	103.06	0.08	440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-010	W599477	103.06	104.40	0.02	540	☐	☐	☐	☐	
20-010	W599478	104.40	105.90	0.02	490	☐	☐	☐	☐	
20-010	W599479	105.90	106.75	0.02	300	☐	☐	☐	☐	
20-010	W599480	106.75	107.75	0.04	570	☐	☐	☐	☐	
20-007	W594222	107.75	108.62	0.18	770	☐	☐	☐	☐	
20-010	W599481	108.62	109.73	0.00	1160	☐	☐	☐	☐	
20-010	W599483	123.00	123.84	0.02	1070	☐	☐	☐	☐	
20-007	W594223	123.84	124.69	0.17	500	☐	☐	☐	☐	
20-010	W599484	124.69	126.00	0.01	1170	☐	☐	☐	☐	
20-010	W599485	134.90	135.40	0.05	730	☐	☐	☐	☐	
20-010	W599486	142.17	143.50	0.01	1120	☐	☐	☐	☐	
20-010	W599487	143.50	144.00	0.02	610	☐	☐	☐	☐	
20-010	W599489	144.00	144.54	0.01	840	☐	☐	☐	☐	
20-010	W599490	154.00	155.50	0.14	860	☐	☐	☐	☐	
20-010	W599491	155.50	157.00	0.08	1230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-010	W599492	157.00	158.50	0.06	570	☐	☐	☐	☐	
20-010	W599493	158.50	159.90	0.02	490	☐	☐	☐	☐	
20-010	W599494	159.90	161.00	0.01	640	☐	☐	☐	☐	
20-010	W599495	167.00	168.50	0.00	1780	☐	☐	☐	☐	
20-010	W599496	168.50	169.30	0.02	780	☐	☐	☐	☐	
20-010	W599497	169.30	170.10	0.25	560	☐	☐	☐	☐	
20-010	W599498	169.30	170.10	0.38	570	☐	☑	☐	☐	
20-010	W599499	170.10	171.60	0.02	1310	☐	☐	☐	☐	
20-010	W599500	176.70	177.30	0.01	1370	☐	☐	☐	☐	
20-010	W599501	195.00	196.25	0.15	1510	☐	☐	☐	☐	
20-010	W599502	196.25	197.75	0.06	1080	☐	☐	☐	☐	
20-010	W599503	197.75	198.30	0.09	690	☐	☐	☐	☐	
20-010	W599504	198.30	199.50	0.02	1280	☐	☐	☐	☐	
20-012	W599505	199.50	200.40	0.01	1670	☐	☐	☐	☐	
20-007	W594224	200.40	201.00	0.12	770	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-007	W594225	201.00	201.75	0.67	490	☐	☐	☐	☐	
20-007	W594226	201.75	202.60	2.51	110	☐	☐	☐	☐	
20-011	W594227	202.60	203.55	4.13	60	☐	☐	☐	☐	
20-011	W594228	203.55	204.50	2.82	100	☐	☐	☐	☐	
20-011	W594229	204.50	205.00	2.13	40	☐	☐	☐	☐	
20-011	W594230	205.00	205.65	1.47	60	☐	☐	☐	☐	
20-011	W594231	205.65	206.65	0.34	350	☐	☐	☐	☐	
20-012	W599506	206.65	208.00	0.05	740	☐	☐	☐	☐	
20-012	W599507	208.00	209.50	0.03	990	☐	☐	☐	☐	
20-012	W599508	209.50	211.00	0.02	1210	☐	☐	☐	☐	
20-012	W599509	211.00	211.66	0.10	1020	☐	☐	☐	☐	
20-012	W599511	211.66	213.00	0.01	1430	☐	☐	☐	☐	
20-012	W599512	213.00	214.20	0.01	1250	☐	☐	☐	☐	
20-012	W599513	214.20	214.80	0.50	740	☐	☐	☐	☐	
20-012	W599514	214.80	216.20	0.02	1320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-012	W599515	216.20	217.20	0.02	1100	☐	☐	☐	☐	
20-012	W599516	217.20	217.70	0.45	830	☐	☐	☐	☐	
20-012	W599518	217.70	219.20	0.01	1610	☐	☐	☐	☐	
20-012	W599520	219.20	220.00	0.04	1240	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.70	7.71	VT	37	20	NUL	1	1-2mm qtz veinlet			
8.50	8.51	VT	37	20	NUL	1	1-2mm qtz veinlet			
12.15	12.17	VT	37	65	NUL	1	carbonate qtz veinlet			
15.40	15.41	FR	5	65	NUL	1	qtz infill?			
15.64	16.22	VT	37	60	NUL	2	qtz carbonate infill veins and fractures			
17.15	17.18	VT	37	60	NUL	2	qtz carb vienlets			
18.10	18.11	VT	37	40	NUL	1	qtz carboante veinlet			
19.15	19.16	VT	37	45	NUL	1	carbaonte veinlets			
20.80	21.80	FR	5	53	NUL	3	fractures/veinelts with qtz carb infill			
22.20	22.60	FR	5	53	NUL	2	fractures with qtz carb chlorite infill			
23.65	23.67	VT	37	55	NUL	1	qtz-carb veinlet with minor bleaching-alteration around it			
25.50	25.51	FR	5	65	NUL	1	fracture			
26.45	26.70	VT	37	55	NUL	3	small qtz carb veinlets			
28.15	28.20	VT	37	50	NUL	1	qtz carb veinlet			
28.50	28.51	VT	37	40	NUL	1	qtz carb veinlet			
28.65	28.66	VT	37	55	NUL	1	qtz carb veinlet			
28.90	28.91	FR	5	60	NUL	1	qtz carb infill			
29.40	29.45	VT	37	50	NUL	2	qtz carb veinlet			
31.95	31.96	FR	5	60	NUL	1	qtz carb infill			
32.25	32.45	VT	37	60	NUL	3	qtz carb veinlet and fractures			
33.80	33.81	FR	5	45	NUL	1	qtz infill			
35.47	35.48	VT	37	65	NUL	1	qtz carb veinlet			
36.05	36.25	VT	37	70	NUL	2	qtz carb veinlet			
36.90	36.91	VT	37	53	NUL	1	qtz carb veinlet			
37.15	37.31	VT	37	57	NUL	3	qtz carb veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
38.45	38.47	VT	37	60	NUL	1	qtz carb veinlet			
40.00	40.01	VT	37	50	NUL	1	qtz-hem veinlet			
40.60	40.65	VT	37	55	NUL	2	qtz hem veinlet			
44.40	44.45	VT	37	55	NUL	3	swarm of qtz-carb veinlets			
51.85	51.90	VN	37	55	NUL	1	qtz-hem-py vein			
51.90	52.20	VN	37	18	NUL	1	qtz-hem py vein			
52.10	52.11	ST		35	NUL	1	py stringer			
52.20	52.25	VN	37	55	NUL	1	qtz-hem-py vein			
52.60	52.61	VT	37	55	NUL	1	qtz-hem-py veinlet			
53.25	53.30	VN	37	55	NUL	1	quartz-carb vein			
55.30	55.31	VT	37	60	NUL	1	qtz-hem-py veinlet			
58.20	58.21	VT	37	62	NUL	1	qtz-chlorite veinlet			
58.50	58.51	VT	37	50	NUL	1	qtz-hem-py veinlet			
61.30	61.40	FT	42	50	NUL	1	fault w mineralization			
64.00	64.05	VN	37	50	NUL	1	fractured/faulted vein			
64.30	64.31	FT	42	45	NUL	1	gouge on edge of fault			
65.53	65.55	FR	5	45	NUL	1	fracture w bleached halo			
66.00	66.01	VT	37	45	NUL	1	qtz-py veinlet			
68.45	68.46	VT	37	50	NUL	1	grey qtz veinelt			
68.90	69.10	VN	37	65	NUL	1	vein			
70.80	70.90	VT	37	65	NUL	1	veinlet swarm			
73.80	74.00	BN		65	NUL	5	bands of alteration and disseminated py			
75.40	75.45	VN	37	70	NUL	1	qtz vein			
80.07	80.17	VN	37	45	NUL	1	qtz-carb-rhodochrosite vein			
80.90	80.93	VN	37	55	NUL	1	rhodochrosite vein			
81.20	81.25	VN	37	80	NUL	1	rhodochrosite-qtz vein			
81.50	81.51	VT	37	65	NUL	1	rhodochrosite qtz carbonate veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
82.50	82.51	FR	5	50	NUL	1	fracture			
83.20	83.21	VT	37	65	NUL	1	qtz chl infill			
84.82	84.84	VT	37	60	NUL	1	qtz-hem-py veinlet			
86.00	88.00	FR	5	6	NUL	3	calcite infill			
87.90	87.91	VT	37	45	NUL	1	qtz carb			
89.80	89.85	VN	37	60	NUL	1	qtz-hem-py vein			
89.85	89.87	VT	37	45	NUL	1	qtz-hem-py veinlet			
96.30	96.32	VT	37	55	NUL	1	qtz, py veinlet			
96.90	96.95	VT	37	55	NUL	1	fracture with alteration halo			
97.70	97.72	FR	5	60	NUL	1	carbonate chlorite fracture			
98.70	98.71	VT	37	60	NUL	1	carbonate chlorite fracture/veinlet with aklterationhalo4			
99.45	99.46	OS		60	NUL	1	60 deg tca veinlet offset by 18 deg tca fracture/veinlet			
99.46	99.47	OS		18	NUL	1	60 deg tca veinlet offset by 18 deg tca fracture/veinlet			
102.75	102.76	VT	37	58	NUL	1	qtz			
102.93	102.96	VN	37	58	NUL	1	Gal phal py vein			
104.75	104.80	FR	5	18	NUL	1	qtz carb infill			
105.03	105.50	FR	5	50	NUL	1	fracture			
105.08	105.10	VT	37	50	NUL	1	qtz carb veinlet			
107.54	107.55	BN		53	NUL	1	bands of alteration and diosseminated py			
108.42	108.45	VN	37	55	NUL	1	rhodochrosite vein			
110.60	110.62	VT	37	55	NUL	1	qtz-carb veinlet			
110.90	110.91	VT	37	55	NUL	1	qtz-hematite veinlet			
114.20	114.21	VT	37	56	NUL	1	qtz-hematite veinlet			
117.55	117.56	VT	37	55	NUL	1	qtz-hematite veinlet			
117.90	117.91	FR	5	55	NUL	1	fracture			
117.95	117.96	VT	37	65	NUL	1	qtz-hematite veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
146.70	146.71	FR	5	30	NUL	1	carbonate-sericite fracture			
149.60	149.61	VT	37	18	NUL	1	qtz-hematite veinlet			
154.15	154.16	VT	37	30	NUL	1	qtz veinlet			
155.25	155.26	VT	37	48	NUL	1	py-gal-sphal veinlet			
156.50	156.54	VT	37	22	NUL	1	carbonate and py veinlet			
159.60	159.61	VT	37	55	NUL	1	qtz-carb-rhodochrosite veinlet			
163.70	163.71	FR	5	55	NUL	1	dark mineral infill fracture (Chlorite?)			
168.45	168.46	DY	37	45	NUL	1	lower contact of dyke and altered grd			
169.50	169.85	FT	42	63	NUL	1	fault			
177.00	177.10	VT	37	54	NUL	2	carbonate qtz veinlets			
180.40	181.07	VT	37	40	NUL	4	swarm of small carboante veinlets			
184.60	184.92	VT	37	60	NUL	3	swarm of carbonate-qtz veinlets			
187.30	187.40	VT	37	30	NUL	2	quartz vienlets			
192.25	192.26	VT	37	55	NUL	1	qtz veinlet			
193.85	193.86	VT	37	60	NUL	1	qtz veinlet			
196.85	196.86	VT	37	60	NUL	1	fracture/shear/veinlet			
198.00	198.01	VT	37	60	NUL	1	qtz-carbonate-py veinlet			
200.40	201.00	VT	37	60	NUL	1	veinlets within altered halo above main vein. Minor py.			
201.00	205.60	VN	37	65	NUL	10	well mineralized vein zone with many chaotic vein orientations, but general trend of veins appear to be between 60 and up to 75 deg tca			
207.95	207.97	VT	37	60	NUL	1	galena veinlet			
209.80	209.81	FR	5	40	NUL	1	epidote alteration around fracture			
214.25	214.30	VT	37	30	NUL	1	qtz pyrite veinlet			
214.50	214.55	FT	42	68	NUL	1	small 5cm fault			
214.60	214.65	VT	37	60	NUL	1	veinlet swarm, py sphal mineralization, carbonate qtz			
217.00	217.01	VT	37	60	NUL	1	carbonate veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
217.35	217.37	VT	37	40	NUL	1	banded galina-py-sphal veinlet			
219.80	219.81	FR	5	45	NUL	1	fracture with disseminated sulphides around			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382701	6885592	1204	220.98

ZONE: Rusk

SECTION:

HOLE: KL -20-472

CLAIM: YA78060

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 7.62m, In

Drilling Dates: Aug 24 - Aug 26, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.47	1.47	CAS
1.47	6.6	5.13	OVB
6.6	14.95	8.35	GRD
14.95	49.84	34.89	GRD
49.84	50.11	0.27	VEN
50.11	52.4	2.29	FLR
52.4	119.2	66.8	GRD
119.2	125.85	6.65	GRD
125.85	177.6	51.75	GRD
177.6	195.4	17.8	GRD
195.4	198.5	3.1	FLR
198.5	209.62	11.12	GRD
209.62	220.98	11.36	GRD

SAMPLES	
Numbers:	W599521 to W599558
Total:	38
Batch:	012, 013
Certificates:	WH20195524, WH20195525

COMMENTS

Casing left in to drill deep intercept on vein in hole KL-20-471.
Handheld GPS accuracy of 1.4m

Box Log

KL -20-472

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.47	5.3
2	5.3	8.1
3	8.1	11.5
4	11.5	14.8
5	14.8	17.85
6	17.85	20.75
7	20.75	23.64
8	23.64	26.68
9	26.68	30.53
10	30.53	34.21
11	34.21	38.25
12	38.25	42.51
13	42.51	45.92
14	45.92	49.37
15	49.37	53.07
16	53.07	57.17
17	57.17	61.42
18	61.42	64.95
19	64.95	68.92
20	68.92	72.77
21	72.77	76.74
22	76.74	80.77
23	80.77	84.83
24	84.83	88.48
25	88.48	92.04
26	92.04	96.29
27	96.29	100.5
28	100.5	104.58
29	104.58	108.2
30	108.2	112.45

Box Number	From (m)	To (m)
31	112.45	116.48
32	116.48	120.2
33	120.2	124.08
34	124.08	127.8
35	127.8	132.2
36	132.2	136.43
37	136.43	140.57
38	140.57	144.93
39	144.93	149.25
40	149.25	153.62
41	153.62	157.82
42	157.82	162.05
43	162.05	166.24
44	166.24	170.54
45	170.54	174.49
46	174.49	178.59
47	178.59	182.68
48	182.68	186.69
49	186.69	190.88
50	190.88	194.95
51	194.95	198.29
52	198.29	201.53
53	201.53	205.5
54	205.5	209.2
55	209.2	213.36
56	213.36	217.15
57	217.15	220.98

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-472									
	19.68	13	HTW	GRD	1306.5	827.7	2.61	2.7	fg grd
	54.06	17	NTW	GRD	1186.6	762.9	2.47	2.8	fg grd
	82.69	22	NTW	GRD	1415.8	906.1	2.28	2.8	fg grd
	102.35	14.5	NTW	GRD	1017	651	2.48	2.8	fine grained grd
	156.77	19	NTW	GRD	1309	833	2.44	2.8	mg grd
	208.5	21.2	NTW	GRD	1421	904	2.37	2.8	vein breccia, ~5% py

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
-99.00	-99.00	0.00	-?-	--								
0.00	1.47	1.47	CAS	--	casing							
1.47	6.60	5.13	OVB	--	overburden, debris flow?							
6.60	7.85	1.25	GRD	FG	extremely altered, oxidized, green brown							
						DK	GN					
						DK	BN					
7.85	11.50	3.65	GRD	FG	extremely altered green brown grd, fractured							
11.50	14.95	3.45	GRD	FG	extremely altered , intervals of bleached clay mushy, possibly sheared? grd at 11.7 and 13.4m							
14.95	19.10	4.15	GRD	FG	same as general lith							
19.10	19.25	0.15	GRD	FG	oxidized rubbly altered grd, orange brown, feld altered to clays? Sheared/strained?							
19.25	29.90	10.65	GRD	FG	same as general lith							
29.90	30.45	0.55	GRD	FG	bleached or altered halo around small oxidized rubble/brecciated interval at 30.25m. Possibly relic of small ~3mm qtz vein in brecciated interval?							
30.45	35.35	4.90	GRD	FG	same as general lith							
35.35	35.60	0.25	GRD	FG	alteration envelope around small swarm of qtz and carbonate veins, all trending at ~60 deg tca, purple-grey qtz and white carbonate. Trace py.							
35.60	40.08	4.48	GRD	FG	same as general lith							
40.08	40.22	0.14	GRD	FG	alteration envelope around small carbonate sericite veinlet. Oxidation in fractured region following other veinlet imediately down hole of first veinlet?							
40.22	40.80	0.58	GRD	FG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
40.80	41.30	0.50	GRD	FG	alteration envelope around swarm of carbonate>qtz veinlets at 60 deg tca. Some oxidation coming in along cabonate veinlet. No mineralization. Super boring.							
41.30	43.44	2.14	GRD	FG	same as general lith							
43.44	43.46	0.02	-?-	FG	unknown small light green gey silicified interval. Sharp well defined boundaries both above and below. Downhole bound by a small 4mm qtz carbonate veinlet and a sharp contact with unaltered grd above. What appear to be elongate angular clasts of green material ~ 2mm by 15mm, and other altered clasts. Could be a breccia? But rocks around it do not seem to be fractured or breciated. Could be dyke? But clasts are angular. Could be siliceous vein? But there seem to be clasts and material isnt fitting. Could be fault breccia material injected from fault structure below through crack and silicified by qtz-carbonate vein… it truly is a mystery. I am well stumped. Will try to remember to include photo.							
43.46	49.37	5.91	GRD	FG	same as general lith							
49.37	49.84	0.47	GRD	FG	grey alteration halo in grd around brecciated / vein interval below							
49.84	50.11	0.27	VEN	--	same as general lith							
50.11	52.40	2.29	FLR	--	same as general lith							
52.40	53.10	0.70	GRD	FG	broken, rubbly, lightly altered							
53.10	57.25	4.15	GRD	FG	unlatered grd, blocky							
57.25	57.35	0.10	GRD	FG	silica altered grd around two small qtz veinlets containing minor py							
57.35	58.25	0.90	GRD	FG	unaltered grd, blocky							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
58.25	59.15	0.90	GRD	FG	weakly altered grd around small carbonate and qtz veinlets. Veinlets trending at ~55 deg tca but broken and veins webbing out in various orientations. Qtz veinlet has few % py, but only 25mm wide							
											Py	4
59.15	79.40	20.25	GRD	FG	unaltered blocky grd, some small qtz-chlorite veinlets, few mm wide, trending 60 deg tca, with no alteration associated							
79.40	79.81	0.41	GRD	FG	minor alteration associate with small carboante veinlets tending at 65 deg tca, and very minor fault/shear/rubbly interval.							
79.81	84.94	5.13	GRD	FG	unaltered grd, blocky, minor stringers of carboante and qtz cutting at 60 deg tca							
84.94	85.25	0.31	GRD	FG	veinlets and sheared interval of rubble with minor clay alteration. Veinlets calcite-qtz-chlorite							
85.25	95.45	10.20	GRD	FG	unaltered grd							
95.45	95.60	0.15	GRD	FG	small interval of bleaching/shear.							
95.60	101.20	5.60	GRD	FG	unaltered grd							
101.20	101.40	0.20	GRD	FG	small interval of strained rubbly altered grd, clay altered. Associated with small qtz vein?							
101.40	103.97	2.57	GRD	FG	unaltered GRD							
103.97	104.37	0.40	GRD	FG	weakly altered envelope around two qtz-carbonate veinlets.							
104.37	105.65	1.28	FLR	--	Top of 20cm of interval is sheared fault breccia with minor gouge, below is strained granodiorite rubble zome, carbonate and clay alteration.							
								ST				
								SH				
								RB				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.65	108.70	3.05	GRD	FG	broken, but otherwise unaltered grd. Clay-carboante infill in fractures, minor carbonate veining, dominantly calcite.							
108.70	116.25	7.55	GRD	FG	unaltered grd. Minor qtz vienlets with weak alteration halos. Minor fractures with carbonate infill							
116.25	117.50	1.25	GRD	FG	broken zone, unaltered, carbonate infill in fractures							
117.50	119.20	1.70	GRD	FG	unaltered grd.							
119.20	119.82	0.62	GRD	FG	strongly bleached granodiorite around carbonate veinlet							
									CLY	3I		
									BLE	5I		
119.82	121.00	1.18	GRD	FG	unaltered but broken GRD.							
121.00	121.90	0.90	GRD	FG	altered but competent grd							
121.90	122.75	0.85	FLR	--	brecciated altered granodiotrite and vein material. Small intervals of dark grey gouge. Trace to minor sulphides, Py-Gal-Sphal.							
											Py	1
											Gn	0.5
											Sp	0.5
122.75	123.40	0.65	GRD	FG	altered but competent grd							
123.40	124.60	1.20	GRD	FG	unaltered fine grained grd, transitioning to medium grained GRD							
124.60	125.15	0.55	GRD	FG	altered envelope around light grey chalcedonic qtz vein.							
125.15	125.85	0.70	GRD	MG	alteration around carbonate-chalcedony-quartz veinlets							
125.85	157.60	31.75	GRD	MG	unaltered GRD. Very minor small veinlets of qtz with hematite. Minor veinlets/fractures with small minor epidote alteration halos, weakly propyllitic at points, with trace chalcopy							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
157.60	157.72	0.12	FLR	--	very small fault/sheared interval. Minor qtz carbonate viening							
157.72	177.60	19.88	GRD	MG	unaltered GRD. Very minor qtz-hematite veinlets							
177.60	177.80	0.20	GRD	MG	altered and weakly sheared, crumbly fine grained grd, patchy bands of disseminated py in lower 5cm of interval							
											Py	2
177.80	177.90	0.10	FLR	--	sheared and altered fault breccia, black gouge and clay altered granodiorite clasts, minor vein fragments. Minor disseminated Py.							
											Py	1
177.90	180.67	2.77	GRD	MG	altered grd around amall qtz-carbonate-rhodochrosite veinlets and fractures with small clay alteration halos							
						LT	GN		CLY	3I		
						LT	GY					
180.67	180.87	0.20	GRD	MG	unaltered GRD							
180.87	181.55	0.68	GRD	MG	altered and bleached granodiorite around small fractures and carbonate veinlets							
181.55	181.90	0.35	GRD	MG	grd							
181.90	182.50	0.60	GRD	MG	alteration around small fractures with carbonate veins and cracked netwok of fractures with hematite infill							
182.50	183.40	0.90	GRD	MG	grd							
183.40	183.90	0.50	GRD	MG	alteration aound small qtz-carbonate filled fractures with disseminated pyrite in fracture halos							
											Py	1
183.90	184.10	0.20	GRD	MG	grd							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
184.10	189.95	5.85	GRD	MG	altered envelope around small brecciated vein at 185.1 containing a few % fine gained Py in dark grey cryptocrystaline qtz and rhodochrosite. Other minor intervals of fractured and silica healed altered grd though this interval, with small veinlets of rhodochrosite and qtz, and fractures with patchy disseminated py in facture halos							
											Py	1
189.95	191.44	1.49	GRD	MG	grd							
191.44	195.40	3.96	GRD	MG	altered envelope around swarm of small fractures with carbonate-hematite infill, and common fractures with bleached alteration halo							
195.40	195.85	0.45	VEN	--	highly cracked vein, fractured and rubbly. White and pink carbonates, ankerite and rhodochrosite. Dark sheared gouge with fine flecks of py disseminated thoughout gouge material. Light grey-green altered granodiorite clasts/component							
											Py	0.5
195.85	197.10	1.25	GRD	--	altered and fractured/broken GRD. Minor dark grey shear with flecks of disseminated py in shear gouge, and small light pink carbonate veinlet							
											Py	0.5
197.10	198.50	1.40	FLR	--	faulted, sheared and altered granodiorite. Clay altered. Carbonate veinlets common.							
198.50	200.70	2.20	GRD	MG	broken and fractured grd. Fractures commonly filled with calcite and chlorite							
200.70	201.05	0.35	GRD	MG	alteration envelope around small pink-grey carbonate and quartz veinlets. Clay and sericite altered							
									CLY	4I		
									SER	4I		
201.05	201.53	0.48	GRD	MG	broken and fracctured GRD, carboante and clay infill in fractures							
201.53	201.85	0.32	GRD	MG	intensely altered anf fractured/strained grd with intense clay alteration aound quartz-chalcedony-carbonate veinlets.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
201.85	202.07	0.22	GRD	MG	unaltered grd							
202.07	203.55	1.48	GRD	MG	moderately to weakly altered grd around small qtz with minor hematite veinlets							
203.55	203.85	0.30	GRD	MG	unaltered grd							
203.85	204.70	0.85	GRD	MG	strongly altered medium grained granodiorite around small carbonate qtz vienlets at 60 deg tca.							
204.70	206.00	1.30	GRD	MG	unaltered grd							
206.00	206.67	0.67	GRD	MG	weakly altered around qtz-hematite veinlets trending at 55 deg tca							
206.67	206.75	0.08	GRD	MG	unaltered grd							
206.75	208.50	1.75	GRD	MG	strongly altered grd envelope around silicified chalcedonic qtz breccia veinlets, and rhodochrosite-carbonate (ankerite?) veinlets.							
									CLY	3I		
									SER	3I		
208.50	208.80	0.30	BXA	--	silica flooded breccia, light grey translucent chalcedonic matrix with clasts of altered granodiorite, some contain fine grained disseminated pyrite up to 30% +- Aspy(?). Lower 7cm of interval contains carboante matrix							
											Py	5
208.80	209.62	0.82	GRD	MG	altered grd, band of disseminated Py at 208.9m, and 8 cm carbonate vein swarm at 209.5m containing patchy Py							
209.62	220.67	11.05	GRD	MG	unaltered GRD							
220.67	220.98	0.31	GRD	MG	small plug of altered grd, alteration around small low angle qtz-hematite veinlet. EOH							
999.00	125.15	-873.85	GRD	MG	fine to medium grained GRD, blocky. Minor clay-carbonate veinlets/fractures.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
-99.00	-99.00	0.00	-?-	GRD	--	
0.00	1.47	1.47	CAS	OVB	--	casing
1.47	6.60	5.13	OVB	OVB	--	overburden, debris flow?
6.60	7.85	1.25	GRD	GRDA	FG	extremely altered, oxidized, green brown
7.85	11.50	3.65	GRD	GRDA	FG	extremely altered green brown grd, fractured
11.50	14.95	3.45	GRD	GRDA	FG	extremely altered , intervals of bleached clay mushy, possibly sheared? grd at 11.7 and 13.4m
14.95	19.10	4.15	GRD	GRD	FG	same as general lith
19.10	19.25	0.15	GRD	GRD	FG	oxidized rubbly altered grd, orange brown, feld altered to clays? Sheared/strained?
19.25	29.90	10.65	GRD	GRD	FG	same as general lith
29.90	30.45	0.55	GRD	GRD	FG	bleached or altered halo around small oxidized rubble/brecciated interval at 30.25m. Possibly relic of small ~3mm qtz vein in brecciated interval?
30.45	35.35	4.90	GRD	GRD	FG	same as general lith
35.35	35.60	0.25	GRD	GRD	FG	alteration envelope around small swarm of qtz and carbonate veins, all trending at ~60 deg tca, purple-grey qtz and white carbonate. Trace py.
35.60	40.08	4.48	GRD	GRD	FG	same as general lith
40.08	40.22	0.14	GRD	GRD	FG	alteration envelope around small carbonate sericite veinlet. Oxidation in fractured region following other veinlet imediately down hole of first veinlet?
40.22	40.80	0.58	GRD	GRD	FG	same as general lith
40.80	41.30	0.50	GRD	GRD	FG	alteration envelope around swarm of carbonate>qtz veinlets at 60 deg tca. Some oxidation coming in along cabonate veinlet. No mineralization. Super boring.
41.30	43.44	2.14	GRD	GRD	FG	same as general lith
43.44	43.46	0.02	-?-	GRD	FG	unknown small light green gey silicified interval. Sharp well defined boundaries both above and below. Downhole bound by a small 4mm qtz carbonate veinlet and a sharp contact with unaltered grd above. What appear to be elongate angular clasts of green material ~ 2mm by 15mm, and other altered clasts. Could be a breccia? But rocks around it do not seem to be fractured or breciated. Could be dyke? But clasts are angular. Could be siliceous vein? But there seem to be clasts and material isnt fitting. Could be fault breccia material injected from fault structure below through crack and silicified by qtz-carbonate vein… it truly is a mystery. I am well stumped. Will try to remember to include photo.
43.46	49.37	5.91	GRD	GRD	FG	same as general lith
49.37	49.84	0.47	GRD	GRD	FG	grey alteration halo in grd around brecciated / vein interval below

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
49.84	50.11	0.27	VEN	VEIN	--	same as general lith
50.11	52.40	2.29	FLR	FLT	--	same as general lith
52.40	53.10	0.70	GRD	GRD	FG	broken, rubbly, lightly altered
53.10	57.25	4.15	GRD	GRD	FG	unlatered grd, blocky
57.25	57.35	0.10	GRD	GRD	FG	silica altered grd around two small qtz veinlets containing minor py
57.35	58.25	0.90	GRD	GRD	FG	unaltered grd, blocky
58.25	59.15	0.90	GRD	GRD	FG	weakly altered grd around small carbonate and qtz veinlets. Veinlets trending at ~55 deg tca but broken and veins webbing out in various orientations. Qtz veinlet has few % py, but only 25mm wide
59.15	79.40	20.25	GRD	GRD	FG	unaltered blocky grd, some small qtz-chlorite veinlets, few mm wide, trending 60 deg tca, with no alteration associated
79.40	79.81	0.41	GRD	GRD	FG	minor alteration associate with small carboante veinlets tending at 65 deg tca, and very minor fault/shear/rubbly interval.
79.81	84.94	5.13	GRD	GRD	FG	unaltered grd, blocky, minor stringers of carboante and qtz cutting at 60 deg tca
84.94	85.25	0.31	GRD	GRD	FG	veinlets and sheared interval of rubble with minor clay alteration. Veinlets calcite-qtz-chlorite
85.25	95.45	10.20	GRD	GRD	FG	unaltered grd
95.45	95.60	0.15	GRD	GRD	FG	small interval of bleaching/shear.
95.60	101.20	5.60	GRD	GRD	FG	unaltered grd
101.20	101.40	0.20	GRD	GRD	FG	small interval of strained rubbly altered grd, clay altered. Associated with small qtz vein?
101.40	103.97	2.57	GRD	GRD	FG	unaltered GRD
103.97	104.37	0.40	GRD	GRD	FG	weakly altered envelope around two qtz-carbonate veinlets.
104.37	105.65	1.28	FLR	GRD	--	Top of 20cm of interval is sheared fault breccia with minor gouge, below is strained granodiorite rubble zome, carbonate and clay alteration.
105.65	108.70	3.05	GRD	GRD	FG	broken, but otherwise unaltered grd. Clay-carboante infill in fractures, minor carbonate veining, dominantly calcite.
108.70	116.25	7.55	GRD	GRD	FG	unaltered grd. Minor qtz vienlets with weak alteration halos. Minor fractures with carbonate infill
116.25	117.50	1.25	GRD	GRD	FG	broken zone, unaltered, carbonate infill in fractures
117.50	119.20	1.70	GRD	GRD	FG	unaltered grd.
119.20	119.82	0.62	GRD	GRDA	FG	strongly bleached granodiorite around carbonate veinlet
119.82	121.00	1.18	GRD	GRDA	FG	unaltered but broken GRD.
121.00	121.90	0.90	GRD	GRDA	FG	altered but competent grd
121.90	122.75	0.85	FLR	GRDA	--	brecciated altered granodiotrite and vein material. Small intervals of dark grey gouge. Trace to minor sulphides, Py-Gal-Sphal.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
122.75	123.40	0.65	GRD	GRDA	FG	altered but competent grd
123.40	124.60	1.20	GRD	GRDA	FG	unaltered fine grained grd, transitioning to medium grained GRD
124.60	125.15	0.55	GRD	GRDA	FG	altered envelope around light grey chalcedonic qtz vein.
125.15	125.85	0.70	GRD	GRDA	MG	alteration around carbonate-chalcedony-quartz veinlets
125.85	157.60	31.75	GRD	GRD	MG	unaltered GRD. Very minor small veinlets of qtz with hematite. Minor veinlets/fractures with small minor epidote alteration halos, weakly propyllitic at points, with trace chalcopy
157.60	157.72	0.12	FLR	GRD	--	very small fault/sheared interval. Minor qtz carbonate viening
157.72	177.60	19.88	GRD	GRD	MG	unaltered GRD. Very minor qtz-hematite veinlets
177.60	177.80	0.20	GRD	GRDA	MG	altered and weakly sheared, crumbly fine grained grd, patchy bands of disseminated py in lower 5cm of interval
177.80	177.90	0.10	FLR	GRDA	--	sheared and altered fault breccia, black gouge and clay altered granodiorite clasts, minor vein fragments. Minor disseminated Py.
177.90	180.67	2.77	GRD	GRDA	MG	altered grd around amall qtz-carbonate-rhodochrosite veinlets and fractures with small clay alteration halos
180.67	180.87	0.20	GRD	GRDA	MG	unaltered GRD
180.87	181.55	0.68	GRD	GRDA	MG	altered and bleached granodiorite around small fractures and carbonate veinlets
181.55	181.90	0.35	GRD	GRDA	MG	grd
181.90	182.50	0.60	GRD	GRDA	MG	alteration around small fractures with carbonate veins and cracked netwok of fractures with hematite infill
182.50	183.40	0.90	GRD	GRDA	MG	grd
183.40	183.90	0.50	GRD	GRDA	MG	alteration aound small qtz-carbonate filled fractures with disseminated pyrite in fracture halos
183.90	184.10	0.20	GRD	GRDA	MG	grd
184.10	189.95	5.85	GRD	GRDA	MG	altered envelope around small brecciated vein at 185.1 containing a few % fine gained Py in dark grey cryptocrystaline qtz and rhodochrosite. Other minor intervals of fractured and silica healed altered grd though this interval, with small veinlets of rhodochrosite and qtz, and fractures with patchy disseminated py in facture halos
189.95	191.44	1.49	GRD	GRDA	MG	grd
191.44	195.40	3.96	GRD	GRDA	MG	altered envelope around swarm of small fractures with carbonate-hematite infill, and common fractures with bleached alteration halo

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
195.40	195.85	0.45	VEN	FLT	--	highly cracked vein, fractured and rubbly. White and pink carbonates, ankerite and rhodochrosite. Dark sheared gouge with fine flecks of py disseminated thoughout gouge material. Light grey-green altered granodiorite clasts/component
195.85	197.10	1.25	GRD	FLT	--	altered and fractured/broken GRD. Minor dark grey shear with flecks of disseminated py in shear gouge, and small light pink carbonate veinlet
197.10	198.50	1.40	FLR	FLT	--	faulted, sheared and altered granodiorite. Clay altered. Carbonate veinlets common.
198.50	200.70	2.20	GRD	GRDA	MG	broken and fractured grd. Fractures commonly filled with calcite and chlorite
200.70	201.05	0.35	GRD	GRDA	MG	alteration envelope around small pink-grey carbonate and quartz veinlets. Clay and sericite altered
201.05	201.53	0.48	GRD	GRDA	MG	broken and fracctured GRD, carboante and clay infill in fractures
201.53	201.85	0.32	GRD	GRDA	MG	intensely altered anf fractured/strained grd with intense clay alteration aound quartz-chalcedony-carbonate veinlets.
201.85	202.07	0.22	GRD	GRDA	MG	unaltered grd
202.07	203.55	1.48	GRD	GRDA	MG	moderately to weakly altered grd around small qtz with minor hematite veinlets
203.55	203.85	0.30	GRD	GRDA	MG	unaltered grd
203.85	204.70	0.85	GRD	GRDA	MG	strongly altered medium grained granodiorite around small carbonate qtz vienlets at 60 deg tca.
204.70	206.00	1.30	GRD	GRDA	MG	unaltered grd
206.00	206.67	0.67	GRD	GRDA	MG	weakly altered around qtz-hematite veinlets trending at 55 deg tca
206.67	206.75	0.08	GRD	GRDA	MG	unaltered grd
206.75	208.50	1.75	GRD	GRDA	MG	strongly altered grd envelope around silicified chalcedonic qtz breccia veinlets, and rhodochrosite-carbonate (ankerite?) veinlets.
208.50	208.80	0.30	BXA	GRDA	--	silica flooded breccia, light grey translucent chalcedonic matrix with clasts of altered granodiorite, some contain fine grained disseminated pyrite up to 30% +- Aspy(?). Lower 7cm of interval contains carboante matrix
208.80	209.62	0.82	GRD	GRDA	MG	altered grd, band of disseminated Py at 208.9m, and 8 cm carbonate vein swarm at 209.5m containing patchy Py
209.62	220.67	11.05	GRD	GRD	MG	unaltered GRD
220.67	220.98	0.31	GRD	GRD	MG	small plug of altered grd, alteration around small low angle qtz-hematite veinlet. EOH
999.00	125.15	-873.85	GRD	GRD	MG	fine to medium grained GRD, blocky. Minor clay-carbonate veinlets/fractures.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.47	1.47	CAS	--	casing							
1.47	6.60	5.13	OVB	--	overburden							
6.60	14.95	8.35	GRD	FG	Extremely altered GRD. Highly fractured, faulted or sheared(???) For the most part the rock is completely rotten, low integrity. Seems like feldspars have been altered to clay(?) and washed away by fluids moving through potential fault(?) or groundwater(???). Interestingly, there are some unaltered fragments of grd, but they appear to be in situ and protected from alteration by small fractures. Contacts very sharp.							
								SN				
						DK	BN	RB	OXI	3I		
						MD	GN	CR				
						MD	GY	MO				
14.95	49.84	34.89	GRD	FG	blocky, broken grd, locally rubbly, oxidation in fractures. Intervals of localized alteration around minor small vein swarms.							
						LT	BL					
						DK	GY	FR				
						MD	GN	RB				
49.84	50.11	0.27	VEN	--	sheeted, brecciated vein interval. Poor mineralization, trace sulphides, py and gal. nothing really of note. Fractures and veining seem to trend between 40 and 55 deg tca							
50.11	52.40	2.29	FLR	--	grey faulted breccia. Clasts of poorly mineralized vein and altered host rock. Pervasively bleached andclay altered. Some intervalso of localized oxidation.							
52.40	119.20	66.80	GRD	FG	blocky generally unaltered grd. Minor oxidation in fractures, especially near top of interval. Few small areas of weak alteration around minor veinlets. Minor rubbly intervals, with one larger rubble interval at 105m.							
						DK	GN					
						DK	GY	FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
119.20	125.85	6.65	GRD	FG	Patchy altered and unaltered GRD. Locally clay altered rubble with brecciated / faluted vein interval							
						MD	GY	FR	CLY	3I	Py	0.5
						MD	GN	RB	SER	4I	Sp	0.1
						LT	GN	EN				
						LT	GY	CR			Gn	0.1
125.85	177.60	51.75	GRD	MG	generally unaltered medium grained GRD. Small intervals of localized alteration around small veinlets, and minor patchy silica alteration							
						MD	BL					
						MD	GY	MA				
						MD	GN					
177.60	195.40	17.80	GRD	MG	patchy altered and unaltered GRD. Some weakly mineralized vein/shear intervals. Minor sulphides in vein material.							
						LT	GY	PA	CLY	2I		
								FR				
						LT	GN	EN	SER	3I	Py	0.5
195.40	198.50	3.10	FLR	--	faulted vein and altered granodiorite. Trace disseminated py in faulted veins and disseminated around fractures.							
						LT	GY	CR	CLY	4I	Py	0.5
						LT	GN	FR	SER	4I		
						LT	PK	SH				
198.50	209.62	11.12	GRD	MG	Broken granodiorite with patchy areas of alteration around minor quartz and carbonate veinlets and locally crumbly/rubbly sections							
						MD	GY	PA	CLY	3I		
						LT	GN	FR	SER	3I		
						LT	GY	CR				
209.62	220.98	11.36	GRD	MG	unaltered GRD. Broken with minor fractures with carbonate infill o epidote alteration halos.							
						MD	GY	MA				
						MD	GN					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.47	1.47	0	0	0.00	0	--	--	--	Casing no core recovered.
1.47	3.05	1.58	0.4	25	0.00	0	--	--	6W	OVB - rounded core and dirt.
3.05	4.57	1.52	0.56	37	0.00	0	--	--	6W	OVB - some pieces of core mixed in the sand and dirt.
4.57	6.10	1.53	1.3	85	0.00	0	--	--	6W	OVB with some competent core, dirt and sand.
6.10	7.62	1.52	1.5	99	0.00	0	--	--	6W	OVB - dirt and sand.
7.62	9.14	1.52	1	66	0.00	0	--	--	6W	Very decomposed core - fault?
9.14	10.67	1.53	1.08	71	0.00	0	--	2H	5W	Very decomposed core.
10.67	12.19	1.52	1.38	91	0.26	17	--	2H	5W	Very decomposed, gouge zone?
12.19	13.72	1.53	1.27	83	0.00	0	--	4H	5W	Fractured zone.
13.72	15.24	1.52	0.76	50	0.26	17	--	4H	5W	Fractured zone
15.24	16.76	1.52	1.31	86	0.89	59	--	4H	2W	
16.76	18.29	1.53	1.16	76	0.77	50	--	4H	2W	
18.29	19.81	1.52	1.21	80	0.69	45	--	4H	2W	Rubble zone with a gouge zone
19.81	21.34	1.53	1.3	85	0.45	29	--	4H	2W	
21.34	22.86	1.52	1.27	84	0.70	46	--	4H	2W	
22.86	24.38	1.52	1.18	78	0.91	60	--	4H	2W	Fractured / rubbled zone.
24.38	27.43	3.05	2.2	72	1.03	34	--	4H	2W	Reduced at 24.38 m from HTW down to NTW. Some rounded core (OVB) - 3 cm.
27.43	30.48	3.05	2.59	85	1.24	41	--	4H	2W	
30.48	33.53	3.05	2.49	82	1.26	41	--	4H	2W	
33.53	36.58	3.05	2.87	94	2.45	80	--	3H	2W	
36.58	39.62	3.04	2.67	88	1.80	59	--	4H	2W	
39.62	42.67	3.05	2.34	77	1.44	47	--	4H	2W	
42.67	45.72	3.05	2.02	66	0.58	19	--	4H	2W	
45.72	48.77	3.05	2.2	72	0.66	22	--	4H	2W	
48.77	50.29	1.52	1.33	88	0.63	41	--	4H	1W	Fault zone with minor breccia at the end of the interval.
50.29	53.34	3.05	2.46	81	0.34	11	--	2H	1W	Breccia zone
53.34	54.86	1.52	1.29	85	0.92	61	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
54.86	57.91	3.05	2.78	91	1.68	55	--	3H	1W	
57.91	60.96	3.05	2.3	75	1.00	33	--	4H	1W	
60.96	62.48	1.52	1.27	84	0.63	41	--	5H	1W	
62.48	64.01	1.53	1.26	82	0.43	28	--	4H	1W	
64.01	67.65	3.64	3.05	84	2.32	64	--	4H	1W	
67.65	70.10	2.45	2.24	91	1.27	52	--	4H	1W	
70.10	71.63	1.53	1.43	93	0.45	29	--	4H	1W	
71.63	74.68	3.05	2.71	89	1.83	60	--	5H	1W	
74.68	77.72	3.04	2.62	86	1.79	59	--	4H	1W	
77.72	80.77	3.05	2.88	94	2.22	73	--	4H	1W	
80.77	83.82	3.05	2.75	90	2.44	80	--	4H	1W	
83.82	86.87	3.05	2.98	98	1.00	33	--	3H	1W	
86.87	89.92	3.05	3.05	100	1.32	43	--	4H	1W	
89.92	92.96	3.04	2.9	95	1.90	63	--	4H	1W	
92.96	96.01	3.05	3.05	100	2.63	86	--	3H	1W	
96.01	99.05	3.04	2.84	93	2.38	78	--	4H	1W	
99.05	102.11	3.06	2.54	83	1.37	45	--	4H	1W	
102.11	105.16	3.05	2.8	92	1.77	58	--	4H	1W	At end of the interval we start to see faulting and gouge.
105.16	106.68	1.52	1.52	100	0.36	24	--	4H	1W	Rubble at start of interval.
106.68	109.73	3.05	2.65	87	1.15	38	--	3H	1W	Small rubble zones
109.73	112.78	3.05	2.95	97	2.33	76	--	4H	1W	
112.78	115.82	3.04	2.68	88	1.62	53	--	3H	1W	
115.82	118.87	3.05	2.73	90	1.47	48	--	4H	1W	Small rubbled zones and fracturing
118.87	120.40	1.53	1.35	88	0.17	11	--	4H	1W	Altered zone. Minor rubble at end of interval.
120.40	123.44	3.04	2.56	84	0.42	14	--	3H	1W	Fault zone with breccia zone and rubble.
123.44	126.49	3.05	2.73	90	1.22	40	--	4H	1W	
126.49	129.54	3.05	2.98	98	2.73	90	--	4H	1W	Joints are all different - 50, 30, 60, 70, 35
129.54	132.59	3.05	2.93	96	1.67	55	--	5H	1W	
132.59	135.64	3.05	2.98	98	2.05	67	--	5H	1W	
135.64	138.68	3.04	3.03	100	2.61	86	--	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
138.68	141.72	3.04	2.93	96	2.51	83	--	4H	1W	
141.72	144.78	3.06	3	98	2.76	90	--	5H	1W	
144.78	147.83	3.05	2.99	98	2.48	81	--	4H	1W	
147.83	150.88	3.05	2.87	94	2.56	84	--	5H	1W	
150.88	153.92	3.04	3.01	99	2.50	82	--	4H	1W	Joints at different angles
153.92	156.97	3.05	3.05	100	2.99	98	--	5H	1W	
156.97	160.02	3.05	3	98	2.70	89	--	5H	1W	
160.02	163.07	3.05	2.91	95	1.40	46	--	3H	1W	
163.07	166.12	3.05	2.97	97	2.12	70	--	4H	1W	
166.12	169.16	3.04	2.85	94	2.40	79	--	4H	1W	
169.16	172.21	3.05	2.77	91	1.74	57	--	4H	1W	Rubble zone near the end of the interval
172.21	175.26	3.05	2.94	96	1.26	41	--	3H	1W	
175.26	176.78	1.52	1.44	95	0.66	43	--	3H	1W	
176.78	179.83	3.05	2.69	88	0.71	23	--	4H	1W	Small rubble zone
179.83	182.88	3.05	2.62	86	1.02	33	--	4H	1W	Fractured up core
182.88	185.93	3.05	2.78	91	1.80	59	--	4H	1W	
185.93	188.98	3.05	2.71	89	1.73	57	--	4H	1W	
188.98	192.02	3.04	2.9	95	2.16	71	--	4H	1W	
192.02	195.07	3.05	2.65	87	1.55	51	--	3H	1W	
195.07	198.12	3.05	2.1	69	0.00	0	--	3H	1W	Fault zone with rubble and minor gouge.
198.12	201.17	3.05	2.86	94	0.39	13	--	2H	1W	
201.17	204.22	3.05	3.05	100	1.28	42	--	2H	1W	
204.22	207.26	3.04	3	99	1.39	46	--	3H	1W	
207.26	208.79	1.53	1.53	100	0.48	31	--	3H	1W	
208.79	210.31	1.52	1.52	100	0.99	65	--	3H	1W	
210.31	213.36	3.05	3.03	99	2.05	67	--	4H	1W	
213.36	216.41	3.05	2.96	97	1.19	39	--	4H	1W	
216.41	219.46	3.05	2.94	96	1.79	59	--	4H	1W	
219.46	220.98	1.52	1.52	100	1.52	100	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
8	19.55	GRD	
9	17.68	GRD	
10	29.68	GRD	
11	27.79	GRD	
12	0.334	GRD	
13	2.674	GRD	
14	0.787	GRD	
15	26.63	GRD	
16	46.48	GRD	
17	48.24	GRD	
18	39.73	GRD	
19	28.07	GRD	
20	37.64	GRD	
21	39.89	GRD	
22	45.03	GRD	
23	44.46	GRD	
24	49.13	GRD	
25	45.98	GRD	
26	52.04	GRD	
27	35.23	GRD	
28	53.22	GRD	
29	52.47	GRD	
30	8.433	GRD	
31	50.5	GRD	
32	47.29	GRD	
33	65.64	GRD	
34	53.16	GRD	
35	48.35	GRD	
36	49.38	GRD	
37	49.02	GRD	
38	51.24	GRD	
39	46.41	GRD	
40	57.77	GRD	
41	1.299	GRD	
42	45.5	GRD	
43	41.1	GRD	
44	44.35	GRD	
45	40.61	GRD	
46	38.95	GRD	
47	45.73	GRD	
48	27.41	GRD	
49	53.06	GRD	
50	0.545	VEN	
51	0.259	FLR	
52	0.404	FLR	
53	28.68	GRD	
54	42.74	GRD	
55	44.72	GRD	
56	51.28	GRD	
57	50.49	GRD	
58	35.18	GRD	
59	0.424	GRD	
60	45.09	GRD	
61	49.9	GRD	
62	39.23	GRD	
63	35.89	GRD	
64	52.07	GRD	
65	48.94	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
66	47.91	GRD	
67	48.99	GRD	
68	40.87	GRD	
69	47	GRD	
70	34.28	GRD	
71	39.29	GRD	
72	40.56	GRD	
73	42.76	GRD	
74	48.41	GRD	
75	38.08	GRD	
76	50.84	GRD	
77	52.53	GRD	
78	48.53	GRD	
79	40	GRD	
80	48.91	GRD	
81	49.23	GRD	
82	43.15	GRD	
83	41.63	GRD	
84	36.66	GRD	
85	5.135	GRD	
86	51.37	GRD	
87	44.2	GRD	
88	35.02	GRD	
89	29.12	GRD	
90	41.2	GRD	
91	43	GRD	
92	40.03	GRD	
93	44.72	GRD	
94	53.73	GRD	
95	51.35	GRD	
96	47.05	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
97	37.64	GRD	
98	43.38	GRD	
99	35.58	GRD	
100	52.67	GRD	
101	12.92	GRD	
102	53.12	GRD	
103	31.66	GRD	
104	2.18	GRD	
105	25.58	GRD	
106	15.59	GRD	
107	34.87	GRD	
108	38.43	GRD	
109	51.56	GRD	
110	40.04	GRD	
111	34.42	GRD	
112	36.02	GRD	
113	27.14	GRD	
114	39.81	GRD	
115	42.35	GRD	
116	45.16	GRD	
117	27.14	GRD	
118	36.23	GRD	
119	34.04	GRD	
120	31.68	GRD	
121	2.034	GRD	
122	0.3	GRD	
123	1.877	GRD	
124	26.09	GRD	
125	8.159	GRD	
126	47.06	GRD	
127	40.24	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
128	36.33	GRD	
129	36.66	GRD	
130	40.78	GRD	
131	39.84	GRD	
132	37.53	GRD	
133	40.4	GRD	
134	24.04	GRD	
135	40.44	GRD	
136	41.81	GRD	
137	42.26	GRD	
138	42.52	GRD	
139	42.87	GRD	
140	43.11	GRD	
141	48.06	GRD	
142	42.98	GRD	
143	35.49	GRD	
144	18.86	GRD	
145	45.75	GRD	
146	47.18	GRD	
147	41.47	GRD	
148	20.91	GRD	
149	41.37	GRD	
150	35.23	GRD	
151	42.64	GRD	
152	40.54	GRD	
153	46.91	GRD	
154	41.22	GRD	
155	51.2	GRD	
156	50.64	GRD	
157	40.77	GRD	
158	39.67	GRD	
159	41.22	GRD	
160	32.97	GRD	
161	42.32	GRD	
162	45.45	GRD	
163	35.28	GRD	
164	35.68	GRD	
165	42.38	GRD	
166	47.15	GRD	
167	40.26	GRD	
168	45.08	GRD	
169	38.28	GRD	
170	46.84	GRD	
171	34.95	GRD	
172	36.82	GRD	
173	34.87	GRD	
174	43.99	GRD	
175	45.18	GRD	
176	55.57	GRD	
177	41.9	GRD	
178	0.954	GRD	
179	0.85	GRD	
180	1.014	GRD	
181	0.864	GRD	
182	0.403	GRD	
183	35.61	GRD	
184	18.51	GRD	
185	0.468	GRD	
186	0.295	GRD	
187	0.909	GRD	
188	0.519	GRD	
189	1.399	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
190	30.28	GRD	
191	39.26	GRD	
192	3.927	GRD	
193	0.677	GRD	
194	0.492	GRD	
195	2.878	GRD	
196	0.892	FLR	
197	0.66	FLR	
198	2.26	FLR	
199	27.66	GRD	
200	17.62	GRD	
201	1.346	GRD	
202	38.6	GRD	
203	45.4	GRD	
204	2.386	GRD	
205	25.38	GRD	
206	1.38	GRD	
207	21.83	GRD	
208	0.37	GRD	
209	0.236	GRD	
210	23.62	GRD	
211	38.83	GRD	
212	40.83	GRD	
213	45.47	GRD	
214	39.15	GRD	
215	43.46	GRD	
216	25.1	GRD	
217	40.47	GRD	
218	39.31	GRD	
219	45.91	GRD	
220	39.2	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599557	☐	20-013	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599547	☐	20-013	Low Grade	Klaza2020-A	☐	☐	☐
11.50	13.00	1.50	GRD	1.50	100	W599521	☐	20-012	Low Grade		☐	☐	☐
13.00	14.50	1.50	GRD	1.15	77	W599522	☐	20-012	Low Grade		☐	☐	☐
14.50	16.00	1.50	GRD	1.44	96	W599523	☐	20-012	Low Grade		☐	☐	☐
16.00	17.50	1.50	GRD	1.42	95	W599524	☐	20-012	Low Grade		☐	☐	☐
17.50	19.00	1.50	GRD	1.37	91	W599525	☐	20-012	Low Grade		☐	☐	☐
19.00	20.00	1.00	GRD	1.00	100	W599526	☐	20-012	Low Grade		☐	☐	☐
29.97	30.48	0.51	GRD	0.51	100	W599527	☐	20-012	Low Grade		☐	☐	☐
40.80	41.30	0.50	GRD	0.50	100	W599528	☐	20-012	Low Grade		☐	☐	☐
49.00	49.84	0.84	GRD	0.81	96	W599529	☐	20-012	Low Grade		☐	☐	☐
49.84	50.50	0.66	VEN, GRD	0.64	97	W599530	☐	20-012	Low Grade		☐	☐	☐
50.50	51.60	1.10	FLR	1.10	100	W599531	☐	20-012	Low Grade		☐	☐	☐
50.50	51.60	1.10	FLR	1.10	100	W599532	☐	20-012	Low Grade		☐	☐	☑
51.60	52.40	0.80	FLR	0.78	98	W599533	☐	20-012	Low Grade		☐	☐	☐
52.40	53.07	0.67	GRD, FLR	0.67	100	W599534	☐	20-012	Low Grade		☐	☐	☐
58.25	59.20	0.95	GRD	0.92	97	W599535	☐	20-012	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
120.80	121.90	1.10	GRD	1.09	99	W599536	☐	20-012	Low Grade		☐	☐	☐
121.90	122.75	0.85	GRD	0.85	100	W599537	☐	20-012	Low Grade		☐	☐	☐
122.75	123.44	0.69	GRD	0.67	97	W599538	☐	20-012	Low Grade		☐	☐	☐
177.60	178.20	0.60	GRD, GRD	0.60	100	W599539	☐	20-012	Low Grade		☐	☐	☐
178.20	179.50	1.30	GRD	1.25	96	W599540	☐	20-012	Low Grade		☐	☐	☐
179.50	181.00	1.50	GRD	1.50	100	W599541	☐	20-012	Low Grade		☐	☐	☐
181.00	182.50	1.50	GRD	1.50	100	W599542	☐	20-012	Low Grade		☐	☐	☐
181.00	182.50	1.50	GRD	1.50	100	W599543	☐	20-012	Low Grade		☐	☑	☐
182.50	183.40	0.90	GRD	0.90	100	W599544	☐	20-012	Low Grade		☐	☐	☐
183.40	184.00	0.60	GRD	0.60	100	W599545	☐	20-013	Low Grade		☐	☐	☐
184.00	185.50	1.50	GRD	1.50	100	W599546	☐	20-013	Low Grade		☐	☐	☐
185.50	186.60	1.10	GRD	1.10	100	W599548	☐	20-013	Low Grade		☐	☐	☐
186.60	187.70	1.10	GRD	1.10	100	W599549	☐	20-013	Low Grade		☐	☐	☐
187.70	188.70	1.00	GRD	1.00	100	W599550	☐	20-013	Low Grade		☐	☐	☐
188.70	189.20	0.50	GRD	0.50	100	W599551	☐	20-013	Low Grade		☐	☐	☐
195.40	195.90	0.50	FLR, GRD	0.49	98	W599552	☐	20-013	Low Grade		☐	☐	☐
195.90	197.10	1.20	FLR	1.00	83	W599553	☐	20-013	Low Grade		☐	☐	☐
197.10	198.00	0.90	FLR	0.70	78	W599554	☐	20-013	Low Grade		☐	☐	☐
207.50	208.50	1.00	GRD	1.00	100	W599555	☐	20-013	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
208.50	209.00	0.50	GRD	0.50	100	W599556	☐	20-013	Low Grade		☐	☐	☐
209.00	209.50	0.50	GRD	0.50	100	W599558	☐	20-013	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-013	W599547	0.00	0.00	0.60	880	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-013	W599557	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-012	W599521	11.50	13.00	0.01	1420	☐	☐	☐	☐	
20-012	W599522	13.00	14.50	0.00	1360	☐	☐	☐	☐	
20-012	W599523	14.50	16.00	0.00	1250	☐	☐	☐	☐	
20-012	W599524	16.00	17.50	0.00	1200	☐	☐	☐	☐	
20-012	W599525	17.50	19.00	0.00	1270	☐	☐	☐	☐	
20-012	W599526	19.00	20.00	0.00	1210	☐	☐	☐	☐	
20-012	W599527	29.97	30.48	0.01	970	☐	☐	☐	☐	
20-012	W599528	40.80	41.30	0.00	840	☐	☐	☐	☐	
20-012	W599529	49.00	49.84	0.01	1130	☐	☐	☐	☐	
20-012	W599530	49.84	50.50	0.21	490	☐	☐	☐	☐	
20-012	W599531	50.50	51.60	0.04	390	☐	☐	☐	☐	
20-012	W599532	50.50	51.60	0.04	380	☐	☑	☐	☐	coarse dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-012	W599533	51.60	52.40	0.05	330	☐	☐	☐	☐	
20-012	W599534	52.40	53.07	0.00	930	☐	☐	☐	☐	
20-012	W599535	58.25	59.20	0.01	780	☐	☐	☐	☐	
20-012	W599536	120.80	121.90	0.05	800	☐	☐	☐	☐	
20-012	W599537	121.90	122.75	0.28	320	☐	☐	☐	☐	
20-012	W599538	122.75	123.44	0.03	1060	☐	☐	☐	☐	
20-012	W599539	177.60	178.20	0.07	560	☐	☐	☐	☐	
20-012	W599540	178.20	179.50	0.02	820	☐	☐	☐	☐	
20-012	W599541	179.50	181.00	0.02	920	☐	☐	☐	☐	
20-012	W599542	181.00	182.50	0.02	1030	☐	☐	☐	☐	
20-012	W599543	181.00	182.50	0.02	1060	☑	☐	☐	☐	quarter dup
20-012	W599544	182.50	183.40	0.03	1270	☐	☐	☐	☐	
20-013	W599545	183.40	184.00	0.05	970	☐	☐	☐	☐	
20-013	W599546	184.00	185.50	0.12	830	☐	☐	☐	☐	
20-013	W599548	185.50	186.60	0.09	640	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-013	W599549	186.60	187.70	0.03	1080	☐	☐	☐	☐	
20-013	W599550	187.70	188.70	0.03	650	☐	☐	☐	☐	
20-013	W599551	188.70	189.20	0.02	470	☐	☐	☐	☐	
20-013	W599552	195.40	195.90	0.71	250	☐	☐	☐	☐	
20-013	W599553	195.90	197.10	0.15	790	☐	☐	☐	☐	
20-013	W599554	197.10	198.00	0.13	620	☐	☐	☐	☐	
20-013	W599555	207.50	208.50	0.03	570	☐	☐	☐	☐	
20-013	W599556	208.50	209.00	0.13	410	☐	☐	☐	☐	
20-013	W599558	209.00	209.50	0.05	490	☐	☐	☐	☐	

KL -20-472

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
11.00	11.01	FR	5	40	NUL	1	fracture in rotten broken altered grd			
12.15	12.16	FR	5	60	NUL	1	fracture in gd			
13.30	13.31	FR	5	60	NUL	1	sharp fracture/contact with altered grd and extremely clay altered grd			
15.40	15.41	FR	5	56	NUL	1	oxidized fracture			
17.10	17.12	FR	5	50	NUL	1	altered slightly crumbly interval, facture?			
19.70	19.71	FR	5	60	NUL	1	fracture with carbonate infill			
24.37	24.38	FR	5	59	NUL	1	calcite chl infill fracture			
30.10	30.11	FR	5	7	NUL	1	low angle fracture			
33.30	33.31	FR	5	56	NUL	1	fracture with small alertation halo, epidote			
35.50	35.60	VT	37	60	NUL	2	swarm of qtz and carbonate veins			
36.28	36.35	VT	37	60	NUL	1	carbonate-chl veinlet			
40.80	41.30	VT	37	60	NUL	5	small qtz-carbonate veinlets			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
43.00	53.07	FA	64	--	NUL	1	Zone of fracturing as well as breccia zones - occurring at the end of the interval. There is some competent core inbetween the fractured zones in this interval. Competent core - 40%, rubble - 45% and breccia/ gouge - 15%. In these breccia zones we see a bleaching of the granodiorite to a light grey coloration. Starting at 49.6 m to ~52.80 m. In this zone we see a area of mineralization - pyrite, galena and sphalerite in a silicified breccia made up of quartz grains and some minor calcite alteration (49.84 - 50.11 m). Quartz grains are grey and glassy as well there is milky white infilling. Pyrite is occuring as fresh, very fine grained and clustered together in bands. Galena is predominatly occuring as a vein at the end of this interval. Sphalerite is occuring locally with galena and in the main zone diseminated. Pyrite - 2%, Galena - locally up to 1% and sphalerite - trace. 50.20 - 50.29 m there is a small breccia zone. The breccia is matrix supported with clastes of rounded to angular granodiorite floating in a clay rich gouge matrix. There is patchy strong pervasive limonite staining in the this breccia zone. The next breccia zone is at 51.00 to 52.32 m. In this breccia we only see minor gouge occuring along fracture surfaces. At the end of the interval have a 10 cm wide gouge zone.			
								Sp	0.01	MA
								Gn	0.01	MA
								Py	0.1	---
43.45	43.47	BN		45	NUL	1	UNKNOWN LITH WHAT THE HECK IS GOING ON WITH THIS THING?!?! (see general lith description)			
44.90	44.92	FR	5	55	NUL	1	qtz-carb-chl veinlet			
53.54	53.57	VT	37	60	NUL	1	Calcite wisps occuring as a veinlet. White in color with a dark green alteration halo around it for 2 cm either side. Veinlet is 60 degrees tca and has trace pyrite associated with the calcite. Pyrite is fresh, fine to medium grained and euhedral.			
								Py	0.1	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
55.96	56.03	VT	37	40	NUL	1	Calcite veinlet that is 2 mm wide and has a 1 mm alteration halo on either side. Selvages are somewhat undulating.			
56.80	56.84	VT	37	55	NUL	1	Calcite veinlet - white. 2 mm wide with chloritic selvages.			
57.24	57.35	VT	37	55	NUL	2	2 wispy calcite occurring as a veinlet. Both are 5 mm wide. Calcite is white and there are dark green chloritic selvages. Both veinlets have trace pyrite associated with them. Pyrite is fine to medium grained, fresh and disseminated.			
								Py	0.1	DI
58.31	58.49	VT	37	55	NUL	3	Calcite occurring as veinlets but not uniform and appear to be infilling fractures. There is some minor chlorite alteration associated with this calcite. Inbetween the calcite veinlets we see local clustering of very fine to fine grained, fresh pyrite. Not associated with the calcite but occurring near the alteration.			
								Py	0.1	DI
58.84	59.14	VN	37	60	NUL	1	Calcite veinlet that is 2 cm wide - white with dark green chloritic slevages that is branching and runs along core axis to another smaller calcite veinlet - 0.5 cm wide. Associated with the calcite is medium grained pyrite - 2%. Pyrite is fresh, very fine grained in larger blebs.			
								Py	2	DI
66.14	66.17	ST		65	NUL	1	Calcite stringer that is 1 mm wide and white.			
69.21	69.23	VT	37	60	NUL	1	Calcite veinlet - white, 3 - 5 mm wide. Local hematite staining occuring the calcite as purple / red staining as well there is some minor chlorite occuring along the selvages. There is trace pyrite associated with the calcite.			
								Py	0.1	EU
72.09	72.28	FR	5	30	NUL	1	Fracture zone with rubbled broken up core. Along fracture surfaces we see limonite alteration pervasively.			
73.53	73.54	VT	37	50	NUL	1	Calcite veinlet - white 2 mm wide. Some chlorite in the calcite occuring as bands.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
73.90	74.17	VT	37	60	NUL	2	2 x calcite veinlets that are 5 mm and 1.3 cm wide. Both are white with patchy purple red hematite staining. The later smaller one have strong and the larger one having moderate. Local trace pyrite occuring in the larger veinlet.			
								Py	0.1	DI
75.30	75.31	ST		60	NUL	1	Small 2 mm wide clay? Seam that is light green/ grey in color and has a small 2 mm calcite band occuring with it too.			
75.51	75.54	VT	37	65	NUL	1	3 mm wide calcite veinlet. White with minor chlorite along the selavges.			
78.56	78.62	VT	37	55	NUL	2	Zone with 2 wispsy calcite veinlets. White with chlorite along the selvages.			
79.40	79.81	VT	37	70	NUL	1	Zone with a bleached halo - light green / grey. Inside this halo we have wispy calcite veinlets that range in size from 1 mm to 1 cm. At the bottom of this interval the rock is very sandy / gougy. Associated with the calcite there is pyrite - trace.			
								Py	0.1	DI
80.04	80.08	VT	37	58	NUL	1	2 mm wide calcite veinlet. White with dark green chlorite slevages. Trace fine grained pyrite associated with calcite.			
								Py	0.1	DI
81.80	81.87	VT	37	35	NUL	1	3 - 4 mm wide wispy calcite veinlet. Veinlet is white with dark green selvages.			
82.53	82.66	VN	37	55	NUL	1	Zone of calcite veining with a bleached alteration halo around it of light green. Calcite alteration in this band is pervasive.			
82.97	83.00	VT	37	60	NUL	1	White calcite veinlet - 2 mm wide.			
83.94	83.98	VT	37	60	NUL	1	Band of pervasive hematite? Alteration. Purple pink in color and 5 mm wide.			
84.94	85.05	GO	34	65	NUL	1	Calcite veinlet - 1 cm wide before a zone of gouge - 1 cm wide. Calcite has local strong hematite.			
85.15	85.23	VT	37	70	NUL	2	Two calcite veinlets - 4 mm wide and 1.5 cm wide. Both are white in color.			
91.42	91.45	VT	37	70	NUL	1	3 mm wide calcite veinlet. White.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
93.29	93.40	VT	37	65	NUL	2	Zone of bleaching due to two calcite veinlets. Veinlets are white with the second one having pervasive hematite alteration. There is trace pyrite occuring in this halo.			
								Py	0.1	DI
95.45	95.60	GO	34	50	NUL	1	Small zone of sand - gouge 3.5 cm wide and after the sand we see a bleaching halo. The bleaching halo is pervasively carbonate altered.			
95.60	95.66	VT	37	50	NUL	2	2 calcite veinlets that are white and 2 - 9 mm wide. In the calcite we see dark green chlorite - angular appearing clasts.			
99.05	99.06	FR	5	60	NUL	1	qtz-carbonate-chlorite infill fracture			
99.90	99.91	FR	5	25	NUL	1	Low angle fracture, qtz, carboante infill			
101.30	101.31	VT	37	65	NUL	1	qtz-carb veinlet with crumbly alteration halo			
103.10	103.11	VT	37	60	NUL	1	qtz veinlet			
104.20	104.25	VT	37	50	NUL	2	qtz-chlorite veinlets			
104.37	104.40	FT	42	60	NUL	1	small interval of gouge at edge of faulted section			
105.80	105.81	FR	5	70	NUL	1	clay carbonate infill fracture			
106.00	106.01	FR	5	40	NUL	1	clay carbonate infill fracture/veinlet			
107.30	107.31	VT	37	28	NUL	1	small low angle veinlet with qtz, carbonate, chlorite, sphal infill, small gouge interval imediately beside veinlet			
107.60	107.61	FR	5	40	NUL	1	calcite-chlorite infill			
113.60	113.65	VT	37	67	NUL	2	small quartz-carbonte veinlets			
114.60	114.26	VT	37	70	NUL	1	small qtz-carbonate veinlet			
116.75	116.77	VT	37	25	NUL	1	qtz-carboante veinlet			
118.20	118.21	FR	5	60	NUL	1	qtz-carbonate-chlorite veinlet			
122.00	122.75	FT	42	65	NUL	1	fractured faulted granodiorite and vein materail, orientation from two small gouge intervals			
127.80	129.50	FR	5	30	NUL	5	fractures with epidote alteration halos			
134.00	134.01	FR	5	35	NUL	1	fracture with epidote alteration halo			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
135.40	135.41	FR	5	55	NUL	1	fracture with potassic/propyllitic alteration halo, but very narow halo			
141.00	141.01	FT	42	40	NUL	1	qtz, hematite veinlet			
142.20	142.21	VT	37	15	NUL	1	low angle veinlet with qtz, hematite infill			
144.00	144.10	VT	37	67	NUL	2	quartz, hematite pyrite infill			
148.20	148.21	VT	37	55	NUL	1	carboante qtz hematite veinlet			
148.70	148.71	VT	37	50	NUL	1	qtz-hmatite-chlorite-calcite veinlet			
152.20	152.21	FR	5	58	NUL	1	weak epidote alteration around fracture			
155.70	155.71	FR	5	50	NUL	1	epidote altered fracture			
156.70	156.71	FR	5	25	NUL	1	epidote altereation around fractures			
157.60	157.72	FT	42	50	NUL	1	minor fault with minor associated carbonate vein			
158.40	158.41	FR	5	73	NUL	1	epidote alteration around fracture			
158.60	158.61	FR	5	30	NUL	1	epidote alteration around fracture			
159.70	159.71	VT	37	56	NUL	1	epidote alteration around qtz filled veinlet			
163.00	163.01	FR	5	56	NUL	1	epidote alteration around fracture			
164.50	164.51	VT	37	55	NUL	1	quartz-chlorite veinlet			
165.80	165.81	VT	37	55	NUL	1	qtz-chlorite veinlet			
169.90	169.91	VT	37	60	NUL	1	qtz-chlorite-pyrite veinlet			
173.80	173.81	FR	5	56	NUL	1	chloite-carbonate-clay infilled fracture			
176.05	176.06	FR	5	25	NUL	1	epidote alteration around fracture			
177.80	177.90	FT	42	60	NUL	1	minor fault / shear with dark grey gougey infill			
178.60	178.61	VT	37	45	NUL	2	small chalcedonic quartz-chlorite veinlet			
179.85	179.86	VT	37	40	NUL	1	pinkish carbonate veinlet			
182.00	182.01	FR	5	45	NUL	1	cabonate infilled fracture			
182.60	182.65	FR	5	45	NUL	2	carbonate infill fractures			
183.60	183.61	VT	37	53	NUL	1	qtz-carbonate infill veinlet			
185.10	185.15	VN	37	65	NUL	1	dark grey chalcedonic quartz and pinkish carbonate (rhodochrosite) with pyrite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
186.10	186.11	VT	37	50	NUL	1	qtz-carbonate veinlet			
187.70	187.71	VT	37	28	NUL	1	fine grained chalcedonic quartz and pinkish carbonate veinlet			
188.30	188.31	FR	5	70	NUL	1	small carbonate quartz fracture			
192.50	192.51	FR	5	50	NUL	1	carbonate infill			
193.00	193.05	VT	37	52	NUL	2	carbonate hematite veinlet			
195.40	195.70	FT	42	70	NUL	3	faulted carbonate vein			
201.55	201.56	FR	5	60	NUL	1	dark grey gouge filled fracture			
203.50	203.51	VT	37	55	NUL	1	qtz veinelt			
204.20	204.21	FR	5	70	NUL	1	carbonate infill fracture			
208.70	208.79	VN	37	60	NUL	1	Vein? Fault? Remineralized with carbonate.			
209.40	209.50	VN	37	58	NUL	1	vein? Fault? Remineralized breccia?			
213.25	213.26	FR	5	40	NUL	1	fracture filled with carbonate			
216.90	216.91	FR	5	55	NUL	1	hematite-quartz infill fracture			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382609	6885461	1221	264.87

ZONE: Rusk

SECTION:

HOLE: KL -20-473

CLAIM: YA78059

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 35.05m, Out

Drilling Dates: Aug 28 - Sep 01, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.7	0.7	CAS
0.7	36.65	35.95	OVB
36.65	115.85	79.2	VOL
115.85	116.49	0.64	-?-
116.49	117.17	0.68	-?-
117.17	168	50.83	GRD
168	224	56	GRD
224	264.87	40.87	GRD

SAMPLES	
Numbers:	W599559 to W599624
Total:	66
Batch:	013, 014
Certificates:	WH20195525, WH20195535

COMMENTS

First attempt to drill hole was abandoned and drill moved back 5 feet. No signifigant mineralization encountered.
Handheld GPS accuracy of 1.4m

Box Log

KL -20-473

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.73	4.55
2	4.55	9.14
3	9.14	12.7
4	12.7	16.43
5	16.43	20
6	20	23.35
7	23.35	26.4
8	26.4	29.7
9	29.7	33.3
10	33.3	36.74
11	36.74	39.62
12	39.62	41.75
13	41.75	44.55
14	44.55	47.6
15	47.6	50.46
16	50.46	53.34
17	53.34	56.82
18	56.82	60.56
19	60.56	64.21
20	64.21	68.25
21	68.25	72.6
22	72.6	76.57
23	76.57	80.7
24	80.7	84.89
25	84.89	88.81
26	88.81	93.04
27	93.04	96.99
28	96.99	100.77
29	100.77	104.93
30	104.93	108.73
31	108.73	112.96
32	112.96	116.49
33	116.49	120.57
34	120.57	124.9
35	124.9	128.65
36	128.65	132.46
37	132.46	136.56
38	136.56	140.64
39	140.64	144.4
40	144.4	147.77
41	147.77	150.46
42	150.46	154.07
43	154.07	157.42
44	157.42	161.33
45	161.33	165.22
46	165.22	169
47	169	173.43
48	173.43	177.78
49	177.78	182.1
50	182.1	186.9
51	186.9	190.39
52	190.39	194.59
53	194.59	198.87
54	198.87	203.16
55	203.16	207.3
56	207.3	211.53
57	211.53	215.61
58	215.61	219.69
59	219.69	223.88
60	223.88	227.93
61	227.93	231.74
62	231.74	235.84
63	235.84	239.7
64	239.7	243.48
65	243.48	247.47
66	247.47	251.2
67	251.2	254.37
68	254.37	258.35
69	258.35	261.89
70	261.89	264.87

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-473									
	64.41	12	NTW	VOL	853.3	836	2.51	49.3	
	89.31	18	NTW	VOL	1155.9	746.6	2.27	2.8	Pyrite - 3% - disseminated
	116.67	20	NTW	-?-	1406.1	1006.6	2.49	3.5	vein of galena with pytite and sphalerite near and associated with galena vein. Sulphides up to 25%. Pyrite, galena and then sphalerite.
	124.18	15	NTW	GRD	1088.1	717.1	2.57	2.9	
	150.47	16	NTW	GRD	1039.2	664	2.3	2.8	
	175.42	13	NTW	GRD	877.2	560.2	2.39	2.8	unaltered fine grained grd
	227.33	14.2	NTW	GRD	961.4	615.4	2.39	2.8	unaltered fine grained granodiorite
	239.54	15.8	NTW	GRD	1055.6	674.2	2.36	2.8	unaltered fine grained granodiorite
	261.28	11.6	NTW	GRD	792.3	505.7	2.42	2.8	unaltered granodirite

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From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
-99.00	-99.00	0.00	-?-	--								
0.00	0.70	0.70	OVB	--	no recovery							
0.70	36.65	35.95	OVB	--	see general lithology							
36.65	45.30	8.65	VOL	FG	Oxidation common on fracture surfaces. Rubbly at points. Stockwork pyrite veinlets common.							
						MD	GY	CR	CLY	1I	Py	0.5
						MD	OR					
						MD	GN					
						LT	GY	FR	SER	1I		
45.30	45.40	0.10	FLR	FG	interval of ~80% gouge, light green grey							
						LT	GN	SH	CLY	4I		
						LT	GY					
						LT	OR					
						LT	BF					
45.40	67.30	21.90	VOL	FG	Broken autobrecciated intermediate volcanics, Py stringers common. Small weak alteration halos around stringers and veinlets. Patchy moderate alteration around 2-3cm quartz-pyrite-carbonate veinlets at 53.3m and 53.8m, at 30 deg tca. Low angle carbonate vein associated with minor faulting and limonite-clay alteration at 66.5-67m.							
						MD	GN	PA	CLY	2I		
						MD	GY	FR	SER	2I	Py	0.5
						LT	GY					
67.30	77.50	10.20	VOL	FG	Patchy weak to moderate silica alteration. Py stringers common. Small weak alteration halos around stringers and veinlets.							
						MD	GY	CR	SIL	2I	Py	0.5
						MD	GN		CLY	1I		
						LT	GY		SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.50	83.20	5.70	VOL	FG	Speckled appearance, possibly infilled vessicles or amigdules, or relic phenocrysts. Speckles are filled with sugary texture silica with chlorite halos/rimming. Some speckles have some py, or py disseminated throughout, py infill in stringers and stockwork fractures. Voids in fractures with very rough edges partially filled with pyrite. Patchy silica and chlorite alteration.							
						MD	BF	VU				
						MD	GY	MO	CLY	2I	Py	1
						MD	GN	CR	SER	2I		
						LT	GY	PA	SIL	2I	Py	1
83.20	93.00	9.80	VOL	FG	Pervasive clay and sericite alteration around carbonate quartz veinlets at 60 deg tca. Patchy silica alteration. Py common disseminated and in fractures. Single long quartz vein at 2 deg tca running from 92-93m, offset a few cm in places by quartz carbonate veinlets at 30 deg tca.							
						MD	GY		CLY	1I	Sp	0.1
						LT	GY	CR	SIL	2I	Py	0.5
						LT	GN		SER	1I		
93.00	100.80	7.80	VOL	FG	Py stringers common. Small weak alteration halos around stringers and veinlets. Patchy weak to moderate silica alteration.							
						MD	GY	CR	SIL	2I	Py	0.5
						MD	GN		CLY	1I	--	0
						LT	GY		SER	1I	--	0
100.80	115.85	15.05	VOL	FG	Pervasive weak to moderate sericite alteration. Common carboante fractures with disseminated py, py also hosted in stringers and fractures thoughout interval. Carboante fracturing increases in lower portion of the interval, with some brecciation occuring in low angle veins. Siderite, Ankerite, rhodochrisite, minor quartz, and trace sulphides.							
						MD	GY	CR			Py	1
						LT	GY	PA	SER	2I	Py	1
115.85	116.49	0.64	-?-	CG	see general lith							
116.49	117.17	0.68	-?-	FG	see general lith							
117.17	117.72	0.55	GRD	VF	clay-sericite altered							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MA	CLY	4I		
						LT	BF	EN	SER	3I		
117.72	118.50	0.78	GRD	VF	weakly altered							
						MD	GN	MA	CLY	2I		
						MD	GY		SER	1I		
						LT	GN		CHL	1I		
118.50	125.03	6.53	GRD	VF	unaltered							
						MD	GY	MA				
125.03	126.72	1.69	GRD	VF	Intensely clay-sericite altered around small interval of gouge and faulted rock, at ~38 deg tca, centered at 126m, with white to pinkish-white, carbonate healed/infilled, brecciated halo around.							
						LT	PK	FR				
						LT	GN	EN	SER	2I		
						LT	BF	CR	ARG	2I		
						LT	GY	BX	CLY	4I		
126.72	132.40	5.68	GRD	VF	unaltered							
						MD	GY	MA				
132.40	133.40	1.00	GRD	VF	weakly altered around some small veinlets and fractures. Quartz-hematite-carboante vein, 1.5cm, 20 deg tca, minor Py. Fractures have minor gouge, low angel, broken, difficult to get angle, but looks similar to veinlet.							
						MD	GN	FR	SER	2I		
						MD	GY	EN	CLY	2I	Py	0.5
						LT	GY					
133.40	138.50	5.10	GRD	VF	unaltered							
						MD	GY	MA				
						MD	GN					
138.50	140.90	2.40	GRD	VF	Localized alteration envelopes around small quartz-carbonate veinlets containing minor Py-Gal-Sphal. GRD coarsening somewhat to ~fg.							
						MD	GY	MA	CLY	2I	Py	0.5
						MD	GN	EN	CHL	3I	Gn	0.5
						LT	GN		SER	2I	Sp	0.5
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
140.90	145.30	4.40	GRD	FG	broken, unaltered fine grained grd							
						MD	GY	FR				
						MD	GN	CR				
145.30	145.40	0.10	GRD	FG	very broken							
						MD	GN	FR				
						MD	GY	CR				
								RB				
145.40	145.55	0.15	GRD	CG	Coarse grained granodiorite dyke(?), at about 20 deg tca. Py disseminated interstitially throughout. Rocks very broken on either side of this dyke(?), but dyke(?) itself is relatively compotent.							
						MD	GY					
						LT	OR	PH				
						LT	GY	CR			Py	0.5
						LT	GN					
145.55	150.00	4.45	GRD	FG	very broken							
						MD	GY	RB				
						MD	GN	FR				
								CR				
150.00	157.42	7.42	GRD	FG	broken, generally unaltered grd.							
						MD	GY	FR				
						MD	GN					
157.42	168.00	10.58	GRD	FG	unaltered grd							
168.00	190.40	22.40	GRD	MG	unaltered							
											Py	1
190.40	192.00	1.60	GRD	MG	Moderately clay-sericite altered around small 8cm interval of rubble/gouge at 191.5m, at between 40-45 deg tca. Small 12mm veinlet of qtz-carbonate at 191.1m, at 50 deg tca.							
											Py	1
											Py	1
192.00	193.30	1.30	GRD	MG	unaltered							
193.30	193.80	0.50	GRD	MG	Interval of weak to moderate sericite-clay alteration aoround 10cm quartz-carbonate vein with minor pyrite, brecciated texture, at 50-55 deg tca. 10cm crumbly interval after vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
193.80	224.00	30.20	GRD	MG	unaltered							
224.00	264.87	40.87	GRD	FG	same as general lith. EOH.							

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From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
-99.00	-99.00	0.00	-?-	VOL	--	
0.00	0.70	0.70	OVB	OVB	--	no recovery
0.70	36.65	35.95	OVB	OVB	--	see general lithology
36.65	45.30	8.65	VOL	VOL	FG	Oxidation common on fracture surfaces. Rubbly at points. Stockwork pyrite veinlets common.
45.30	45.40	0.10	FLR	VOL	FG	interval of ~80% gouge, light green grey
45.40	67.30	21.90	VOL	VOL	FG	Broken autobrecciated intermediate volcanics, Py stringers common. Small weak alteration halos around stringers and veinlets. Patchy moderate alteration around 2-3cm quartz-pyrite-carbonate veinlets at 53.3m and 53.8m, at 30 deg tca. Low angle carbonate vein associated with minor faulting and limonite-clay alteration at 66.5-67m.
67.30	77.50	10.20	VOL	VOL	FG	Patchy weak to moderate silica alteration. Py stringers common. Small weak alteration halos around stringers and veinlets.
77.50	83.20	5.70	VOL	VOL	FG	Speckled appearance, possibly infilled vessicles or amigdules, or relic phenocrysts. Speckles are filled with sugary texture silica with chlorite halos/rimming. Some speckles have some py, or py disseminated throughout, py infill in stringers and stockwork fractures. Voids in fractures with very rough edges partially filled with pyrite. Patchy silica and chlorite alteration.
83.20	93.00	9.80	VOL	VOL	FG	Pervasive clay and sericite alteration around carbonate quartz veinlets at 60 deg tca. Patchy silica alteration. Py common disseminated and in fractures. Single long quartz vein at 2 deg tca running from 92-93m, offset a few cm in places by quartz carbonate veinlets at 30 deg tca.
93.00	100.80	7.80	VOL	VOL	FG	Py stringers common. Small weak alteration halos around stringers and veinlets. Patchy weak to moderate silica alteration.
100.80	115.85	15.05	VOL	VOL	FG	Pervasive weak to moderate sericite alteration. Common carboante fractures with disseminated py, py also hosted in stringers and fractures thoughout interval. Carboante fracturing increases in lower portion of the interval, with some brecciation occuring in low angle veins. Siderite, Ankerite, rhodochrisite, minor quartz, and trace sulphides.
115.85	116.49	0.64	-?-	---	CG	see general lith
116.49	117.17	0.68	-?-	---	FG	see general lith
117.17	117.72	0.55	GRD	GRD	VF	clay-sericite altered
117.72	118.50	0.78	GRD	GRD	VF	weakly altered
118.50	125.03	6.53	GRD	GRD	VF	unaltered
125.03	126.72	1.69	GRD	GRD	VF	Intensely clay-sericite altered around small interval of gouge and faulted rock, at ~38 deg tca, centered at 126m, with white to pinkish-white, carbonate healed/infilled, brecciated halo around.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
126.72	132.40	5.68	GRD	GRD	VF	unaltered
132.40	133.40	1.00	GRD	GRD	VF	weakly altered around some small veinlets and fractures. Quartz-hematite-carboante vein, 1.5cm, 20 deg tca, minor Py. Fractures have minor gouge, low angel, broken, difficult to get angle, but looks similar to veinlet.
133.40	138.50	5.10	GRD	GRD	VF	unaltered
138.50	140.90	2.40	GRD	GRD	VF	Localized alteration envelopes around small quartz-carbonate veinlets containing minor Py-Gal-Sphal. GRD coarsening somewhat to ~fg.
140.90	145.30	4.40	GRD	GRD	FG	broken, unaltered fine grained grd
145.30	145.40	0.10	GRD	GRD	FG	very broken
145.40	145.55	0.15	GRD	GRD	CG	Coarse grained granodiorite dyke(?), at about 20 deg tca. Py disseminated interstitially throughout. Rocks very broken on either side of this dyke(?), but dyke(?) itself is relatively compotent.
145.55	150.00	4.45	GRD	GRD	FG	very broken
150.00	157.42	7.42	GRD	GRD	FG	broken, generally unaltered grd.
157.42	168.00	10.58	GRD	GRD	FG	unaltered grd
168.00	190.40	22.40	GRD	GRD	MG	unaltered
190.40	192.00	1.60	GRD	GRD	MG	Moderately clay-sericite altered around small 8cm interval of rubble/gouge at 191.5m, at between 40-45 deg tca. Small 12mm veinlet of qtz-carbonate at 191.1m, at 50 deg tca.
192.00	193.30	1.30	GRD	GRD	MG	unaltered
193.30	193.80	0.50	GRD	GRD	MG	Interval of weak to moderate sericite-clay alteration aoround 10cm quartz-carbonate vein with minor pyrite, brecciated texture, at 50-55 deg tca. 10cm crumbly interval after vein.
193.80	224.00	30.20	GRD	GRD	MG	unaltered
224.00	264.87	40.87	GRD	GRD	FG	same as general lith. EOH.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.70	0.70	CAS	--	No recovery							
0.70	36.65	35.95	OVB	--	Judging by this and the material recovered in the abandoned hole 5 feet to the north, a large component of the overburden in this area is likely till or diamicton. Within this, there appears to be several compositonal divisions; a darker horizon nearer to surface (0.7-14m), a lighter more clay rich layer (14-22m), a second darker layer (22-26m), a second lighter clay rich layer (26-29m), and a third darker layer withhighly fractured dominantly bedrock lithology clasts (26-32m), and fractured, oxidized, and surficially altered bedrock. This possibly indicates several pulses of overburden/till emplacement? Clasts are a mix of lithologies (polymictic coarse to fine grained sandstone, aphanytic volcanics (basalt or possibly mudstone(?)), silicious dyke, QFP dyke, granodiorite, autobrecciated volcanics, fine grained intermediate volcanics with flow textures, magnetite-gneiss). Clasts generally angular to subrounded, and single well rounded clast (magnetite gneiss). Depth of bedrock may be between 32-36.5m, difficult to tell due to rubbly nature of the top of the bedrock and washed rubble/poor recovery in this area from drilling.							
36.65	115.85	79.20	VOL	FG	Lithified volcanic breccia (autobreccia?) consisting of angular clasts of darker rock in slightly lighter colour fine grained matrix. Top of interval is blocky and broken down to 63m. 10cm of fault gouge at 45.5m. Some low angle carbonate veining, associated with minor fault breccia/gouge. Chaotic fractures with patchy clay-sericite-chlorite alteration around qtz-carbonate veinlets and the younger hydrothermally(?) brecciated carbonate vein intervals. Oxidation common on fractures down to 63m. Common pyrite infill in fractures as as stockwork infill and veinelts.	MD	GY	FR	CLY	3I	Py	1
						MD	OR		SIL	2I	Py	0.5
						MD	BR		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		SER	2I		
115.85	116.49	0.64	-?-	VC	Heterolithic Breccia? Conglomerate? Polymictic clasts ranging in size from mm scale to >10cm. Lithologies observed: coarse grained granodiorite; quartz-phyric buff green fine grained volcanics; quartzites; 5mm clast of galina; 5mm clast of sphalerite; dark grey green silicous volcanics with pyrite stringers; barren white carboantes; and white carbonates containing fine webs of Gal-sphal-py. Clasts range from being sub rounded to angular. Larger clasts seem more rounded. Upper portion of interval is dominated by ~12cm clast(?) of quartz-hornblende phyric fine grained green grey-buff volcanic. This clast shows some minor internal displacement from fractures. The very upper contact of the interval is marked by an abrupt transition to massive grey siliceous rock with a laminar texture (shear or sedimentary?) with minor flecks of py, and is capped by a thin, planar, graphitic and sulphide rich gouge at 61 deg tca. Lower contact is not well defined, can't get core to line up between boxes, but changes to interval of cracked, altered, silica flooded fine grained granodiorite with disseminated py and veinlets of Gal-Sphal which also trend at 60 deg tca.							
						LT	OR					
						MD	BR				Py	1
						MD	GY				Gn	0.5
						LT	GN					
						LT	GY				Sp	0.5
116.49	117.17	0.68	-?-	FG	Breccia? Dominantly sericite altered, silica flooded, fine grained granodiorite containing disseminated Py. Infill/matrix of white carbonate with some sulphides. Small >1cm discreet bands/veinlets of galina-sphalerite with minor py and white carbonate, trending at 60 deg tca. Small intervals of gouge (>5mm) trending at 60 deg tca, with the bottom most gouge interval marking a sharp contact between massive fine grained granodiorite below. This contact is somewhat similar to the upper contact of the interval above.							
						MD	GY	BX	SIL	3I	Py	2
						LT	GY	CR	CLY	2I	Gn	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH				Sp	1.5
117.17	168.00	50.83	GRD	FG	Massive very fine grained granodoirite. Localized clay-sericite alteration around minor faulted/brecciated sections (ex 125-127m). Becoming broken at 141m onwards.							
						MD	GY	MA				
168.00	224.00	56.00	GRD	MG	Unaltered, massive medium grained granodiorite. Minor clay-sericite alteration around minor faults (ex: 190-192m).							
						MD	GY	MA	CHL	2I	Py	0.1
						MD	GN	---	CLY	1I	--	0
						LT	GY	---	SER	1I		
						--	--					
						--	--					
224.00	264.87	40.87	GRD	FG	Unaltered fine grained granodiorite through to EOH.							
						MD	GY	MA				

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.73	0.73	0	0	0.00	0	--	--	--	Top of hole - no core recovered - casing.
0.73	1.52	0.79	0.77	97	0.00	0	--	--	6W	Top of hole - dirt with minor bits of core mixed in.
1.52	3.05	1.53	1.17	76	0.00	0	--	--	6W	Dirt / sand with minor competent core near the end of the interval.
3.05	4.57	1.52	1.15	76	0.00	0	--	--	6W	Dirt/ sand with minor competent core intermixed - Till?
4.57	6.10	1.53	1.42	93	0.00	0	--	--	6W	Till?
6.10	7.62	1.52	0.13	9	0.00	0	--	--	6W	Very poor recovery, possibly washed away.
7.62	9.14	1.52	0.92	61	0.00	0	--	--	--	Till?
9.14	10.67	1.53	1.47	96	0.00	0	--	--	--	Till?
10.67	12.19	1.52	1.09	72	0.00	0	--	--	--	Till?
12.19	13.72	1.53	1.26	82	0.00	0	--	--	--	Till?
13.72	15.24	1.52	1.15	76	0.00	0	--	--	--	Till?
15.24	16.76	1.52	1.32	87	0.00	0	--	--	--	Till?
16.76	18.29	1.53	1.05	69	0.28	18	--	--	--	Till?
18.29	19.81	1.52	1.04	68	0.00	0	--	--	--	Till?
19.81	21.34	1.53	1.43	93	0.00	0	--	--	--	Till?
21.34	22.86	1.52	1.1	72	0.00	0	--	--	--	Till?
22.86	24.38	1.52	1.52	100	0.00	0	--	--	--	Till?
24.38	25.91	1.53	1.28	84	0.00	0	--	--	--	Till?
25.91	27.43	1.52	1.39	91	0.00	0	--	--	--	Till?
27.43	28.96	1.53	1.24	81	0.00	0	--	--	--	Till?
28.96	30.48	1.52	1.33	88	0.00	0	--	--	--	Till?
30.48	32.00	1.52	0.93	61	0.00	0	--	--	--	Till? Possible cave at start of interval? 5 cm of pebbles and rounded core.
32.00	33.53	1.53	1.01	66	0.00	0	--	--	--	Till?
33.53	35.05	1.52	1.35	89	0.00	0	--	--	3W	Fractured and broken core.
35.05	36.58	1.53	0.37	24	0.00	0	--	--	2W	Fractured and rubbled core as well as re-drilled core pieces.
36.58	38.10	1.52	0.57	38	0.00	0	--	--	4W	Fractured and broken core.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
38.10	39.62	1.52	1.1	72	0.00	0	--	--	3W	Fractured and broken up core.
39.62	41.15	1.53	1.16	76	0.33	22	--	2H	3W	Fractured and broken up core but less than previous intervals.
41.15	42.67	1.52	1.23	81	0.11	7	--	3H	3W	Fractured and broken up core.
42.67	44.20	1.53	1.17	76	0.25	16	--	3H	3W	Fractured and broken core but becoming more competent in comparison to above interval.
44.20	45.72	1.52	1.17	77	0.35	23	--	3H	3W	Fractured and rubbled up at the upper part of the interval and then we have a large zone of gouge ~ 13 cm wide.
45.72	47.24	1.52	1.02	67	0.16	11	--	4H	3W	Fractured and rubbled core.
47.24	48.77	1.53	1.5	98	1.01	66	--	3H	2W	
48.77	50.29	1.52	1.39	91	1.16	76	--	4H	2W	
50.29	51.82	1.53	1.3	85	0.46	30	--	4H	2W	
51.82	53.34	1.52	1.43	94	0.72	47	--	4H	3W	
53.34	55.17	1.83	1.45	79	0.65	36	--	4H	3W	
55.17	57.61	2.44	1.95	80	1.48	61	--	3H	2W	Joints at all different angles.
57.61	60.96	3.35	2.7	81	0.48	14	--	4H	2W	
60.96	64.01	3.05	2.44	80	1.02	33	--	4H	2W	
64.01	67.06	3.05	2.09	69	1.38	45	--	4H	2W	
67.06	70.10	3.04	2.74	90	2.24	74	--	4H	1W	
70.10	73.15	3.05	2.86	94	2.65	87	--	4H	1W	Joints at all different angles.
73.15	76.20	3.05	2.95	97	2.15	70	--	4H	1W	
76.20	79.25	3.05	2.8	92	2.18	71	--	3H	1W	
79.25	82.30	3.05	2.96	97	1.84	60	--	4H	1W	
82.30	85.34	3.04	3	99	2.38	78	--	4H	1W	
85.34	88.39	3.05	2.51	82	1.76	58	--	4H	1W	
88.39	91.44	3.05	2.92	96	2.20	72	--	4H	1W	
91.44	94.49	3.05	2.86	94	1.91	63	--	4H	1W	
94.49	97.54	3.05	2.73	90	1.46	48	--	4H	1W	
97.54	100.58	3.04	2.79	92	1.54	51	--	4H	1W	
100.58	102.11	1.53	1.44	94	1.16	76	--	4H	1W	minor gouge - no matching joint sets
102.11	105.16	3.05	2.9	95	2.65	87	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
105.16	108.20	3.04	2.8	92	1.70	56	--	3H	1W	
108.20	111.25	3.05	3.01	99	2.36	77	--	4H	1W	
111.25	114.30	3.05	2.78	91	2.30	75	--	4H	1W	
114.30	117.25	2.95	2.73	93	1.24	42	--	4H	1W	
117.25	118.87	1.62	1.35	83	0.84	52	--	4H	1W	No matching joint sets
118.87	121.92	3.05	2.78	91	2.00	66	--	4H	1W	
121.92	124.97	3.05	2.85	93	2.42	79	--	5H	1W	
124.97	128.02	3.05	2.96	97	2.03	67	--	4H	1W	
128.02	131.06	3.04	2.67	88	2.06	68	--	4H	1W	
131.06	132.59	1.53	1.52	99	0.87	57	--	5H	1W	
132.59	135.64	3.05	2.71	89	1.21	40	--	4H	1W	
135.64	138.68	3.04	2.95	97	2.32	76	--	4H	1W	
138.68	141.76	3.08	2.85	93	1.88	61	--	4H	1W	
141.76	144.78	3.02	2.08	69	0.56	19	--	4H	1W	
144.78	146.30	1.52	1.5	99	0.32	21	--	3H	1W	Rubbled core
146.30	147.83	1.53	1.22	80	0.00	0	--	4H	1W	Rubbled core
147.83	149.35	1.52	1.25	82	0.22	14	--	4H	1W	Rubbled core
149.35	152.40	3.05	2.7	89	1.41	46	--	3H	1W	Rubbled core and then becoming more competent
152.40	153.92	1.52	1.27	84	0.96	63	--	5H	1W	Rubbled setion of core.
153.92	155.45	1.53	1.16	76	0.36	24	--	4H	1W	Rubbled and fractured core
155.45	156.67	1.22	0.98	80	0.00	0	--	4H	1W	Rubbled and broken up core.
156.67	159.72	3.05	3.05	100	1.98	65	--	4H	1W	
159.72	162.76	3.04	2.71	89	1.66	55	--	4H	1W	
162.76	165.81	3.05	2.76	90	1.19	39	--	4H	1W	all joints at different angles
165.81	167.64	1.83	1.48	81	0.22	12	--	4H	1W	
167.64	170.69	3.05	2.95	97	2.57	84	--	4H	1W	
170.69	173.74	3.05	3.02	99	2.59	85	--	4H	1W	
173.74	176.78	3.04	2.96	97	2.58	85	--	4H	1W	
176.78	179.83	3.05	2.94	96	2.64	87	--	4H	1W	
179.83	182.88	3.05	2.94	96	2.32	76	--	5H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
182.88	185.93	3.05	2.99	98	2.26	74	--	4H	1W	
185.93	188.98	3.05	3.01	99	2.11	69	--	4H	1W	
188.98	190.80	1.82	1.57	86	0.71	39	--	4H	1W	Joints at all different angle as well there is a rubble zone at the end of the interval.
190.80	193.55	2.75	2.73	99	1.64	60	--	4H	1W	
193.55	196.60	3.05	3.03	99	2.36	77	--	4H	1W	
196.60	199.64	3.04	3.01	99	2.48	82	--	4H	1W	
199.64	202.69	3.05	2.95	97	2.53	83	--	4H	1W	
202.69	205.44	2.75	2.49	91	1.60	58	--	4H	1W	
205.44	208.48	3.04	2.87	94	1.47	48	--	4H	1W	
208.48	211.53	3.05	2.81	92	2.28	75	--	4H	1W	
211.53	214.27	2.74	2.6	95	1.40	51	--	5H	1W	
214.27	217.32	3.05	2.81	92	1.96	64	--	4H	1W	
217.32	219.46	2.14	2.02	94	1.39	65	--	5H	1W	
219.46	222.50	3.04	2.62	86	2.00	66	--	5H	1W	
222.50	224.03	1.53	1.52	99	1.08	71	--	4H	1W	
224.03	227.08	3.05	2.8	92	1.61	53	--	5H	1W	
227.08	228.60	1.52	1.44	95	1.05	69	--	5H	1W	
228.60	231.65	3.05	2.7	89	1.17	38	--	4H	1W	
231.65	233.17	1.52	1.29	85	0.58	38	--	4H	1W	
233.17	236.22	3.05	2.9	95	1.61	53	--	4H	1W	
236.22	239.27	3.05	2.86	94	1.96	64	--	4H	1W	
239.27	242.32	3.05	2.92	96	1.00	33	--	4H	1W	
242.32	245.36	3.04	2.86	94	1.43	47	--	4H	1W	
245.36	248.41	3.05	3.05	100	1.44	47	--	3H	1W	
248.41	251.46	3.05	3.02	99	1.31	43	--	3H	1W	
251.46	254.51	3.05	3.05	100	0.83	27	--	3H	1W	broken
254.51	257.56	3.05	3.05	100	2.01	66	--	4H	1W	
257.56	259.08	1.52	1.51	99	1.14	75	--	4H	1W	
259.08	262.13	3.05	3.05	100	1.62	53	--	3H	1W	
262.13	264.87	2.74	2.61	95	1.61	59	--	4H	1W	

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Depth (m)	Magnetic Susceptibility	Rock Type	Comments
39	0.12	VOL	OVB (possible till?) with no competent core till 39 m.
40	0.173	VOL	
41	0.141	VOL	
42	0.185	VOL	
43	0.145	VOL	
44	0.39	VOL	
45	6.638	VOL	
46	83.75	VOL	
47	39.73	VOL	
48	30.09	VOL	
49	0.525	VOL	
50	42.18	VOL	
51	42.25	VOL	
52	0.868	VOL	
53	0.314	VOL	
54	0.261	VOL	
55	0.222	VOL	
56	0.212	VOL	
57	0.49	VOL	
58	1.181	VOL	
59	28.67	VOL	
60	33.51	VOL	
61	7.544	VOL	
62	9.045	VOL	
63	0.726	VOL	
64	12.28	VOL	
65	0.312	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
66	17.57	VOL	
67	0.706	VOL	
68	91.35	VOL	
69	7.703	VOL	
70	0.372	VOL	
71	14.46	VOL	
72	1.895	VOL	
73	37.62	VOL	
74	0.869	VOL	
75	15.74	VOL	
76	10.75	VOL	
77	2.708	VOL	
78	4.303	VOL	
79	0.144	VOL	
80	0.142	VOL	
81	0.316	VOL	
82	0.481	VOL	
83	0.221	VOL	
84	0.163	VOL	
85	0.233	VOL	
86	0.303	VOL	
87	0.16	VOL	
88	0.28	VOL	
89	0.267	VOL	
90	0.231	VOL	
91	0.286	VOL	
92	0.254	VOL	
93	17.34	VOL	
94	65.47	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
95	8.776	VOL	
96	47.2	VOL	
97	7.364	VOL	
98	80.25	VOL	
99	40.67	VOL	
100	32.55	VOL	
101	0.302	VOL	
102	0.724	VOL	
103	0.342	VOL	
104	0.177	VOL	
105	0.131	VOL	
106	0.143	VOL	
107	0.112	VOL	
108	0.175	VOL	
109	0.111	VOL	
110	0.175	VOL	
111	0.13	VOL	
112	0.282	VOL	
113	0.107	VOL	
114	0.128	VOL	
115	0.132	VOL	
116	0.385	-?-	
117	0.922	-?-	
118	7.231	GRD	
119	53.8	GRD	
120	57.95	GRD	
121	51.26	GRD	
122	59.14	GRD	
123	59.64	GRD	
124	54.64	GRD	
125	32.08	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
126	1.254	GRD	
127	52.28	GRD	
128	26.39	GRD	
129	63.56	GRD	
130	54.3	GRD	
131	57.94	GRD	
132	65.71	GRD	
133	3.011	GRD	
134	63.62	GRD	
135	55.21	GRD	
136	61.88	GRD	
137	59.93	GRD	
138	54.09	GRD	
139	0.98	GRD	
140	0.726	GRD	
141	48.28	GRD	
142	45.08	GRD	
143	50.08	GRD	
144	50.13	GRD	
145	70.91	GRD	
148	56.05	GRD	146 and 147 meters are rubble zones. No competent core for mag sus
149	47.2	GRD	
150	51.7	GRD	
151	37.76	GRD	
152	40.99	GRD	
153	48.17	GRD	
154	51.69	GRD	
155	53.03	GRD	
156	50.63	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
157	46.19	GRD	
158	49.93	GRD	
159	44.96	GRD	
160	42.02	GRD	
161	35.35	GRD	
162	36.49	GRD	
163	37.49	GRD	
164	44	GRD	
165	35	GRD	
166	50.96	GRD	
167	45.7	GRD	
168	45.84	GRD	
168	45.84	GRD	
169	42.44	GRD	
170	53.5	GRD	
171	30.32	GRD	
172	43.57	GRD	
173	46.01	GRD	
174	40.75	GRD	
175	45.91	GRD	
176	41.68	GRD	
177	38.27	GRD	
178	44.09	GRD	
179	35.81	GRD	
180	47.12	GRD	
181	46.55	GRD	
182	42.96	GRD	
183	33.02	GRD	
184	53.16	GRD	
185	47.41	GRD	
186	47.07	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
187	50.43	GRD	
188	43.03	GRD	
189	34.54	GRD	
190	52.56	GRD	
191	7.997	GRD	
192	9.47	GRD	
193	42.05	GRD	
194	51.73	GRD	
195	58.3	GRD	
196	54.36	GRD	
197	16.53	GRD	
198	51.92	GRD	
199	54.11	GRD	
200	52.97	GRD	
201	47.97	GRD	
202	26.43	GRD	
203	52.27	GRD	
204	51.77	GRD	
205	63.97	GRD	
206	60.59	GRD	
207	50.74	GRD	
208	58.41	GRD	
209	46.43	GRD	
210	52.73	GRD	
211	48.03	GRD	
212	41.54	GRD	
213	45.44	GRD	
214	52.72	GRD	
215	46.89	GRD	
216	51.82	GRD	
217	46.22	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
218	58.01	GRD	
219	59.57	GRD	
220	445.65	GRD	
221	45.17	GRD	
222	65.52	GRD	
223	53.73	GRD	
224	52.36	GRD	
224	52.36	GRD	
225	40.85	GRD	
226	46.47	GRD	
227	44.5	GRD	
228	43.99	GRD	
229	38.89	GRD	
230	40.37	GRD	
231	47.26	GRD	
232	44.8	GRD	
233	43.47	GRD	
234	41.84	GRD	
235	40.55	GRD	
236	48.09	GRD	
237	42.2	GRD	
238	39.2	GRD	
239	37.97	GRD	
240	42.64	GRD	
241	43.81	GRD	
242	41.95	GRD	
243	43.55	GRD	
244	43.46	GRD	
245	45.76	GRD	
246	43.01	GRD	
247	42.67	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
248	43.65	GRD	
249	42.1	GRD	
250	42.989	GRD	
251	42.59	GRD	
252	45.51	GRD	
253	42.62	GRD	
254	45.1	GRD	
255	44.31	GRD	
256	44.21	GRD	
257	47.31	GRD	
258	42.21	GRD	
259	42.23	GRD	
260	47.17	GRD	
261	46.67	GRD	
262	39.04	GRD	
263	43.3	GRD	
264	40.92	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599592	☐	20-014	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599600	☐	20-014	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599619	☐	20-014	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599566	☐	20-013	Low Grade	Klaza2020-B	☐	☐	☐
47.60	49.00	1.40	VOL	1.24	89	W599559	☐	20-013	Low Grade		☐	☐	☐
49.00	50.50	1.50	VOL	1.39	93	W599560	☐	20-013	Low Grade		☐	☐	☐
50.50	52.00	1.50	VOL	1.24	83	W599561	☐	20-013	Low Grade		☐	☐	☐
52.00	53.50	1.50	VOL	1.21	81	W599562	☐	20-013	Low Grade		☐	☐	☐
53.50	54.20	0.70	VOL	0.54	77	W599563	☐	20-013	Low Grade		☐	☐	☐
54.20	55.70	1.50	VOL	1.24	83	W599564	☐	20-013	Low Grade		☐	☐	☐
55.70	56.70	1.00	VOL	0.87	87	W599565	☐	20-013	Low Grade		☐	☐	☐
56.70	58.20	1.50	VOL	1.08	72	W599567	☐	20-013	Low Grade		☐	☐	☐
58.20	59.70	1.50	VOL	1.19	79	W599568	☐	20-013	Low Grade		☐	☐	☐
59.70	61.00	1.30	VOL	0.98	75	W599569	☐	20-013	Low Grade		☐	☐	☐
61.00	62.50	1.50	VOL	1.03	69	W599570	☐	20-013	Low Grade		☐	☐	☐
62.50	64.00	1.50	VOL	1.34	89	W599571	☐	20-013	Low Grade		☐	☐	☐
64.00	65.00	1.00	VOL	0.91	91	W599572	☐	20-013	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
64.00	65.00	1.00	VOL	0.91	91	W599573	☐	20-013	Low Grade		☐	☑	☐
65.00	65.50	0.50	VOL	0.50	100	W599574	☐	20-013	Low Grade		☐	☐	☐
65.50	66.60	1.10	VOL	1.03	94	W599575	☐	20-013	Low Grade		☐	☐	☐
66.60	67.20	0.60	VOL	0.56	93	W599576	☐	20-013	Low Grade		☐	☐	☐
67.20	68.70	1.50	VOL	1.47	98	W599577	☐	20-013	Low Grade		☐	☐	☐
68.70	70.00	1.30	VOL	1.08	83	W599578	☐	20-013	Low Grade		☐	☐	☐
70.00	71.50	1.50	VOL	1.46	97	W599579	☐	20-013	Low Grade		☐	☐	☐
71.50	73.00	1.50	VOL	1.41	94	W599580	☐	20-013	Low Grade		☐	☐	☐
71.50	73.00	1.50	VOL	1.41	94	W599581	☐	20-013	Low Grade		☐	☐	☑
73.00	74.50	1.50	VOL	1.50	100	W599582	☐	20-013	Low Grade		☐	☐	☐
74.50	76.00	1.50	VOL	1.38	92	W599583	☐	20-013	Low Grade		☐	☐	☐
76.00	77.50	1.50	VOL	1.44	96	W599584	☐	20-013	Low Grade		☐	☐	☐
77.50	79.00	1.50	VOL	1.43	95	W599585	☐	20-014	Low Grade		☐	☐	☐
79.00	80.50	1.50	VOL	1.36	91	W599586	☐	20-014	Low Grade		☐	☐	☐
80.50	82.00	1.50	VOL	1.49	99	W599587	☐	20-014	Low Grade		☐	☐	☐
82.00	83.50	1.50	VOL	1.46	97	W599588	☐	20-014	Low Grade		☐	☐	☐
83.50	85.00	1.50	VOL	1.46	97	W599589	☐	20-014	Low Grade		☐	☐	☐
85.00	86.00	1.00	VOL	0.97	97	W599590	☐	20-014	Low Grade		☐	☐	☐
86.00	87.00	1.00	VOL	0.76	76	W599591	☐	20-014	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
87.00	88.50	1.50	VOL	1.34	89	W599593	☐	20-014	Low Grade		☐	☐	☐
88.50	89.00	0.50	VOL	0.50	100	W599594	☐	20-014	Low Grade		☐	☐	☐
89.00	90.50	1.50	VOL	1.46	97	W599595	☐	20-014	Low Grade		☐	☐	☐
90.50	92.00	1.50	VOL	1.44	96	W599596	☐	20-014	Low Grade		☐	☐	☐
92.00	93.50	1.50	VOL	1.39	93	W599597	☐	20-014	Low Grade		☐	☐	☐
93.50	95.00	1.50	VOL	1.30	87	W599598	☐	20-014	Low Grade		☐	☐	☐
95.00	96.50	1.50	VOL	1.41	94	W599599	☐	20-014	Low Grade		☐	☐	☐
96.50	98.00	1.50	VOL	1.36	91	W599601	☐	20-014	Low Grade		☐	☐	☐
98.00	99.50	1.50	VOL	1.48	99	W599602	☐	20-014	Low Grade		☐	☐	☐
99.50	101.00	1.50	VOL	1.22	81	W599603	☐	20-014	Low Grade		☐	☐	☐
101.00	102.00	1.00	VOL	0.94	94	W599604	☐	20-014	Low Grade		☐	☐	☐
102.00	103.00	1.00	VOL	0.96	96	W599605	☐	20-014	Low Grade		☐	☐	☐
103.00	104.50	1.50	VOL	1.48	99	W599606	☐	20-014	Low Grade		☐	☐	☐
104.50	106.00	1.50	VOL	1.28	85	W599607	☐	20-014	Low Grade		☐	☐	☐
106.00	107.50	1.50	VOL	1.50	100	W599608	☐	20-014	Low Grade		☐	☐	☐
107.50	109.00	1.50	VOL	1.50	100	W599609	☐	20-014	Low Grade		☐	☐	☐
109.00	110.50	1.50	VOL	1.50	100	W599610	☐	20-014	Low Grade		☐	☐	☐
109.00	110.50	1.50	VOL	1.50	100	W599611	☐	20-014	Low Grade		☐	☑	☐
110.50	112.00	1.50	VOL	1.50	100	W599612	☐	20-014	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
112.00	113.50	1.50	VOL	1.50	100	W599613	☐	20-014	Low Grade		☐	☐	☐
112.00	113.50	1.50	VOL	1.50	100	W599614	☐	20-014	Low Grade		☐	☐	☑
113.50	114.70	1.20	VOL	1.15	96	W599615	☐	20-014	Low Grade		☐	☐	☐
114.70	115.80	1.10	VOL	1.10	100	W599616	☐	20-014	Low Grade		☐	☐	☐
115.80	116.67	0.87	VOL	0.87	100	W599617	☐	20-014	Low Grade		☐	☐	☐
116.67	117.17	0.50	-?-	0.50	100	W599618	☐	20-014	Low Grade		☐	☐	☐
117.17	118.30	1.13	-?-, GRD	1.13	100	W599620	☐	20-014	Low Grade		☐	☐	☐
125.10	126.15	1.05	GRD	1.05	100	W599621	☐	20-014	Low Grade		☐	☐	☐
132.85	133.35	0.50	GRD	0.50	100	W599622	☐	20-014	Low Grade		☐	☐	☐
138.50	139.00	0.50	GRD	0.50	100	W599623	☐	20-014	Low Grade		☐	☐	☐
193.00	194.00	1.00	GRD	0.98	98	W599624	☐	20-014	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-013	W599566	0.00	0.00	2.91	1850	☐	☐	☐	☑ Klaza2020-B	
20-014	W599592	0.00	0.00	0.67	420	☐	☐	☐	☑ Klaza2020-A	
20-014	W599600	0.00	0.00	2.90	1140	☐	☐	☐	☑ Klaza2020-B	
20-014	W599619	0.00	0.00	0.00	50	☐	☐	☑	☐	
20-013	W599559	47.60	49.00	0.68	1450	☐	☐	☐	☐	
20-013	W599560	49.00	50.50	0.02	1060	☐	☐	☐	☐	
20-013	W599561	50.50	52.00	0.01	870	☐	☐	☐	☐	
20-013	W599562	52.00	53.50	0.01	630	☐	☐	☐	☐	
20-013	W599563	53.50	54.20	4.43	450	☐	☐	☐	☐	
20-013	W599564	54.20	55.70	0.05	970	☐	☐	☐	☐	
20-013	W599565	55.70	56.70	1.20	900	☐	☐	☐	☐	
20-013	W599567	56.70	58.20	0.01	400	☐	☐	☐	☐	
20-013	W599568	58.20	59.70	0.01	1650	☐	☐	☐	☐	
20-013	W599569	59.70	61.00	0.01	1820	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-013	W599570	61.00	62.50	0.00	1630	☐	☐	☐	☐	
20-013	W599571	62.50	64.00	0.05	2300	☐	☐	☐	☐	
20-013	W599572	64.00	65.00	0.01	2300	☐	☐	☐	☐	
20-013	W599573	64.00	65.00	0.01	1850	☑	☐	☐	☐	
20-013	W599574	65.00	65.50	0.18	750	☐	☐	☐	☐	
20-013	W599575	65.50	66.60	0.01	3090	☐	☐	☐	☐	
20-013	W599576	66.60	67.20	0.02	540	☐	☐	☐	☐	
20-013	W599577	67.20	68.70	0.01	2310	☐	☐	☐	☐	
20-013	W599578	68.70	70.00	0.03	2730	☐	☐	☐	☐	
20-013	W599579	70.00	71.50	0.12	1290	☐	☐	☐	☐	
20-013	W599580	71.50	73.00	0.02	900	☐	☐	☐	☐	
20-013	W599581	71.50	73.00	0.01	910	☐	☑	☐	☐	
20-013	W599582	73.00	74.50	0.02	1250	☐	☐	☐	☐	
20-013	W599583	74.50	76.00	0.09	1520	☐	☐	☐	☐	
20-013	W599584	76.00	77.50	0.03	1220	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-014	W599585	77.50	79.00	0.04	1080	☐	☐	☐	☐	
20-014	W599586	79.00	80.50	0.02	960	☐	☐	☐	☐	
20-014	W599587	80.50	82.00	0.04	380	☐	☐	☐	☐	
20-014	W599588	82.00	83.50	0.03	540	☐	☐	☐	☐	
20-014	W599589	83.50	85.00	0.04	630	☐	☐	☐	☐	
20-014	W599590	85.00	86.00	0.03	300	☐	☐	☐	☐	
20-014	W599591	86.00	87.00	0.02	520	☐	☐	☐	☐	
20-014	W599593	87.00	88.50	0.02	880	☐	☐	☐	☐	
20-014	W599594	88.50	89.00	0.03	620	☐	☐	☐	☐	
20-014	W599595	89.00	90.50	0.04	200	☐	☐	☐	☐	
20-014	W599596	90.50	92.00	0.11	510	☐	☐	☐	☐	
20-014	W599597	92.00	93.50	0.03	840	☐	☐	☐	☐	
20-014	W599598	93.50	95.00	0.01	1110	☐	☐	☐	☐	
20-014	W599599	95.00	96.50	0.01	900	☐	☐	☐	☐	
20-014	W599601	96.50	98.00	0.02	1020	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-014	W599602	98.00	99.50	0.01	850	☐	☐	☐	☐	
20-014	W599603	99.50	101.00	0.01	1830	☐	☐	☐	☐	
20-014	W599604	101.00	102.00	0.05	230	☐	☐	☐	☐	
20-014	W599605	102.00	103.00	0.05	2110	☐	☐	☐	☐	
20-014	W599606	103.00	104.50	0.03	2140	☐	☐	☐	☐	
20-014	W599607	104.50	106.00	0.05	1730	☐	☐	☐	☐	
20-014	W599608	106.00	107.50	0.05	1850	☐	☐	☐	☐	
20-014	W599609	107.50	109.00	0.05	600	☐	☐	☐	☐	
20-014	W599610	109.00	110.50	0.04	670	☐	☐	☐	☐	
20-014	W599611	109.00	110.50	0.04	1580	☑	☐	☐	☐	
20-014	W599612	110.50	112.00	0.10	280	☐	☐	☐	☐	
20-014	W599613	112.00	113.50	0.08	580	☐	☐	☐	☐	
20-014	W599614	112.00	113.50	0.08	500	☐	☑	☐	☐	
20-014	W599615	113.50	114.70	0.05	500	☐	☐	☐	☐	
20-014	W599616	114.70	115.80	0.11	320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-014	W599617	115.80	116.67	0.43	450	☐	☐	☐	☐	
20-014	W599618	116.67	117.17	16.15	90	☐	☐	☐	☐	
20-014	W599620	117.17	118.30	0.06	1020	☐	☐	☐	☐	
20-014	W599621	125.10	126.15	0.01	420	☐	☐	☐	☐	
20-014	W599622	132.85	133.35	0.01	950	☐	☐	☐	☐	
20-014	W599623	138.50	139.00	0.05	540	☐	☐	☐	☐	
20-014	W599624	193.00	194.00	0.03	1140	☐	☐	☐	☐	

KL -20-473

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
40.00	42.00	FR	5	60	NUL	8	common fractures trending at 60 deg tca, but core highly fractured in all directions			
45.00	45.01	FR	5	40	NUL	1	carbonate infill			
47.20	47.21	FR	5	30	NUL	1	carb infill			
48.65	48.70	VN	37	40	NUL	1	carbonate minor quartz vein			
52.00	52.02	VT	37	30	NUL	1	qtz vein			
52.60	52.61	VT	37	40	NUL	1	qtz veinlet			
55.80	55.81	FR	5	50	NUL	1	fracture			
56.20	56.21	VT	37	32	NUL	1	carbonate quartz infill			
59.30	59.31	VT	37	20	NUL	1	quartz hematite veinlet			
62.70	62.72	VT	37	25	NUL	1	qtz carbonate py fracture			
64.50	64.51	FR	5	60	NUL	1	fracture			
65.10	65.18	VN	37	40	NUL	1	carbonate quartz vein			
65.50	65.51	FR	5	50	NUL	1	fracture			
66.50	66.51	FR	5	50	NUL	1	fracture			
67.60	67.61	FR	5	35	NUL	1	fracture			
68.25	69.00	FR	5	42	NUL	2	fractures			
70.25	70.26	VT	37	35	NUL	1	carbonate veinlet			
75.70	75.71	VT	37	40	NUL	1	carbonate quartz infill			
86.10	86.12	VT	37	70	NUL	1	carbonate quartz infill			
88.55	88.62	VN	37	55	NUL	1	carbonate quartz infill			
89.50	89.51	VT	37	70	NUL	1	carbonate quartz infill			
90.70	90.73	VT	37	35	NUL	1	carbonate quartz infill			
92.20	92.27	VN	37	40	NUL	1	carbonate quartz infill			
103.80	103.85	VT	37	5	NUL	1	carbonate vienlet			
104.05	104.06	VT	37	40	NUL	1	carbonate quartz infill			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
107.05	107.06	VT	37	70	NUL	1	carbonate py veinlet			
113.30	113.35	VN	37	40	NUL	1	carbonate vein			
115.72	115.73	GO	34	60	NUL	1	carbonaceous/pyrite black gouge			
116.85	117.18	GO	34	60	NUL	3	small gougy fractures			
119.80	119.81	FR	5	70	NUL	1	fracture/veinlet			
121.00	121.01	FR	5	50	NUL	1	fracture			
122.80	122.81	FR	5	50	NUL	1	fracture			
125.40	125.41	FR	5	60	NUL	1	rubbly fracture			
126.00	126.08	FR	5	40	NUL	2	rubbly fracture			
127.00	127.50	VT	37	5	NUL	3	carbonate quartz infill			
133.15	133.18	VT	37	20	NUL	1	quartz minor py			
134.80	134.81	FR	5	20	NUL	1	carbonate infill fracture			
138.70	138.79	VT	37	60	NUL	4	small swarm of veinlets with carbonate quartz infill			
147.85	147.87	VT	37	20	NUL	1	quartz py veinlet			
217.00	217.01	FR	5	62	NUL	1	py-hem fracture			
220.00	220.01	FR	5	65	NUL	1	sheared carbonate and chlorite			
226.20	226.21	FR	5	70	NUL	1	chlorite infill			
227.40	227.45	FR	5	70	NUL	2	chlorite infill			
231.20	231.21	FR	5	55	NUL	1	quartz chlorite infill			
242.80	242.81	FR	5	60	NUL	1	quartz chlorite infill			
245.60	245.61	FR	5	23	NUL	1	chlorite hematite infill			
257.56	257.57	FR	5	25	NUL	1	chlorite infill			
260.70	260.71	FR	5	12	NUL	1	chlorite infill			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382502	6885324	1236	47.55

ZONE: Rusk

SECTION:

HOLE: KL -20-474

CLAIM: YA78057

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 38.1m, Out

Drilling Dates: Sep 01 - Sep 03, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	5.6	5.6	CAS
5.6	47.55	41.95	OVB

SAMPLES	
Numbers:	
Total:	0
Batch:	
Certificates:	

COMMENTS

Hole lost due to ground conditions. Core barrel and tubes stuck in hole. Were not retreived. Handheld GPS accuracy of 1.6m. No downhole data

Box Log

KL -20-474

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	5.6	8.45
2	8.45	11.95
3	11.95	15.24
4	15.24	18.85
5	18.85	22.27
6	22.27	25.6
7	25.6	28.96
8	28.96	32.8
9	32.8	37.8
10	37.8	40
11	40	41.5
12	41.5	44.5
13	44.5	47.55

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.60	5.60	CAS	--	casing							
5.60	11.50	5.90	OVB	--	silt/clay and cobbles/boulders, angular, looks like reworked till. Tan brown.							
						MD	TN					
						MD	BN					
11.50	13.00	1.50	OVB	--	silt/clay with boulders/cobbles. Brey brown, organic component, reworked?							
						MD	BN					
						LT	GY					
13.00	15.24	2.24	OVB	--	silt/clay with boulders/cobbles. Slightly more gravel, polymictic.							
						MD	BN					
						MD	GY					
						LT	OR					
15.24	16.50	1.26	OVB	--	silt/clay/sand, no clasts							
						MD	TN					
						LT	BN					
16.50	17.00	0.50	OVB	--	silt/clay with boulders/cobbles. Organic component, little bit of gravel							
						MD	GY					
						MD	BN					
						LT	BN					
17.00	18.29	1.29	OVB	--	silt/clay with boulders/cobbles. More cobble component, polymictic, reworked?							
						MD	GY					
						LT	GY					
18.29	18.40	0.11	OVB	--	silt/clay with boulders/cobbles. Organic component							
18.40	19.00	0.60	OVB	--	grey, poorly sorted silt/clay with boulders/cobbles. Angular, polymictic							
						MD	GY					
19.00	21.34	2.34	OVB	--	silt/clay with boulders/cobbles. Polymictic							
						MD	TN					
						LT	BN					
						LT	OR					
21.34	22.00	0.66	OVB	--	organic component makes ovb more brown							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						MD	BN					
22.00	23.20	1.20	OVB	--	moslty clasts of silicious dyke							
						MD	BN					
						LT	GY					
23.20	23.70	0.50	OVB	--	wood fragments, organic rich							
						LT	BK					
						DK	GY					
						DK	BN					
23.70	24.38	0.68	OVB	--	silt/clay with gravel and minor cobbles. Reworked							
24.38	25.60	1.22	OVB	--	polymictic reworked overburden grading into clay rich brecciated silicious dyke material							
						LT	BN					
						LT	TN					
						LT	OR					
25.60	29.00	3.40	OVB	--	silt/clay with boulders/cobbles.							
						MD	GY					
						MD	TN					
						LT	GY					
29.00	34.20	5.20	OVB	--	overburden or faulted silicious dyke? Limonite stained. Clay rich. Brecciated/angular fragments							
						MD	OR					
						LT	TN					
						LT	GY					
						LT	BN					
34.20	35.00	0.80	OVB	--	grey, clay rich, small scsale faults/shears. Bleached?							
						LT	GY					
35.00	36.30	1.30	OVB	--	altered and frctured grd? Limonite stained and clay altered. Shear/micro fault structures, planar slick surfaces at ~50 deg tca							
						MD	OR					
						MD	BN					
36.30	38.10	1.80	OVB	--	gravel and cobbles. Intermediate volcanics							
						DK	GY					
38.10	39.00	0.90	OVB	--	coarse sand							
						MD	BN					
39.00	39.80	0.80	OVB	--	gravel and cobbles							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
39.80	40.80	1.00	OVB	--	coarse sand							
						MD	BN					
40.80	47.55	6.75	OVB	--	cave in and fractured, tumbled and rounded from drilling and re-drilling. Almost 100% intermediate volcanics, but very little confidence in anything here. One full box of cave in, which looks identical to all the rock for a box to either side							

KL -20-474

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	5.60	5.60	CAS	OVB	--	casing
5.60	11.50	5.90	OVB	OVB	--	silt/clay and cobbles/boulders, angular, looks like reworked till. Tan brown.
11.50	13.00	1.50	OVB	OVB	--	silt/clay with boulders/cobbles. Brey brown, organic component, reworked?
13.00	15.24	2.24	OVB	OVB	--	silt/clay with boulders/cobbles. Slightly more gravel, polymictic.
15.24	16.50	1.26	OVB	OVB	--	silt/clay/sand, no clasts
16.50	17.00	0.50	OVB	OVB	--	silt/clay with boulders/cobbles. Organic component, little bit of gravel
17.00	18.29	1.29	OVB	OVB	--	silt/clay with boulders/cobbles. More cobble component, polymictic, reworked?
18.29	18.40	0.11	OVB	OVB	--	silt/clay with boulders/cobbles. Organic component
18.40	19.00	0.60	OVB	OVB	--	grey, poorly sorted silt/clay with boulders/cobbles. Angular, polymictic
19.00	21.34	2.34	OVB	OVB	--	silt/clay with boulders/cobbles. Polymictic
21.34	22.00	0.66	OVB	OVB	--	organic component makes ovb more brown
22.00	23.20	1.20	OVB	OVB	--	moslty clasts of silicious dyke
23.20	23.70	0.50	OVB	OVB	--	wood fragments, organic rich
23.70	24.38	0.68	OVB	OVB	--	silt/clay with gravel and minor cobbles. Reworked
24.38	25.60	1.22	OVB	OVB	--	polymictic reworked overburden grading into clay rich brecciated silicious dyke material
25.60	29.00	3.40	OVB	OVB	--	silt/clay with boulders/cobbles.
29.00	34.20	5.20	OVB	OVB	--	overburden or faulted silicious dyke? Limonite stained. Clay rich. Brecciated/angular fragments
34.20	35.00	0.80	OVB	OVB	--	grey, clay rich, small scsale faults/shears. Bleached?
35.00	36.30	1.30	OVB	OVB	--	altered and frctured grd? Limonite stained and clay altered. Shear/micro fault structures, planar slick surfaces at ~50 deg tca
36.30	38.10	1.80	OVB	OVB	--	gravel and cobbles. Intermediate volcanics
38.10	39.00	0.90	OVB	OVB	--	coarse sand
39.00	39.80	0.80	OVB	OVB	--	gravel and cobbles
39.80	40.80	1.00	OVB	OVB	--	coarse sand
40.80	47.55	6.75	OVB	OVB	--	cave in and fractured, tumbled and rounded from drilling and re-drilling. Almost 100% intermediate volcanics, but very little confidence in anything here. One full box of cave in, which looks identical to all the rock for a box to either side

KL -20-474

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.60	5.60	CAS	--	casing.							
5.60	47.55	41.95	OVB	--	Overburden and till and cave-in. Absolute mess. Multiple pulses of overburden present in top portion of hole, evident through the multiple layers with organic matter in it (at least four, possibly five). Lighter orange layers lower would seem to be faulted bedrock, but have layers of what looks very much like till below them. Layers of pure sand and clay, but have rubble on either side, likely cave in. very hard to know what is representitive of the subsurface and what is a redrilled reworked washed mess of rock. No mineralization or anything that could confidently be called bedrock or be worth sampling.							

KL -20-474

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	5.60	5.60	0	0	0.00	0	--	--	--	Top of hole - casing - no core recovered.
5.60	6.10	0.50	0.5	100	0.00	0	--	--	--	Start of hole rounded and re-drilled bits of core.
6.10	7.62	1.52	1.4	92	0.00	0	--	--	6W	OVB - Sand and dirt with small bits of core mixed in.
7.62	9.14	1.52	1.44	95	0.26	17	--	--	6W	OVB - Sand and dirt with competent pieces of core.
9.14	10.67	1.53	1.31	86	0.10	7	--	--	6W	OVB - Sand and dirt with some pieces of core.
10.67	12.19	1.52	1.03	68	0.19	13	--	--	6W	OVB - Sand and dirt with some pieces of core.
12.19	13.72	1.53	1.32	86	0.14	9	--	--	6W	OVB - Sand plus dirt with some core.
13.72	15.24	1.52	1.31	86	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
15.24	16.76	1.52	1.51	99	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
16.76	18.29	1.53	1.31	86	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
18.29	19.81	1.52	1.35	89	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
19.81	21.34	1.53	1.23	80	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
21.34	22.86	1.52	1.52	100	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
22.86	24.38	1.52	1.5	99	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
24.38	25.91	1.53	1.22	80	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
25.91	27.43	1.52	1.07	70	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
27.43	28.96	1.53	1.5	98	0.00	0	--	--	6W	OVB - Sand plus dirt with some core.
28.96	30.48	1.52	1.07	70	0.00	0	--	--	3W	Gouge?
30.48	32.00	1.52	1.17	77	0.00	0	--	--	4W	Gouge? With some rubbled up core.
32.00	33.53	1.53	0.97	63	0.00	0	--	--	4W	Gouge? With minor rubbled core
33.53	35.05	1.52	0.78	51	0.00	0	--	--	4W	Gouge? Minor rubbled core
35.05	36.58	1.53	0.87	57	0.00	0	--	--	4W	Gouge? With some minor rubbled core.
36.58	38.10	1.52	0.87	57	0.00	0	--	--	--	rubble
38.10	39.62	1.52	1.46	96	0.00	0	--	--	--	sand and rubble
39.62	41.15	1.53	3.5	229	0.00	0	--	--	--	too much recovery, sand and rubble
41.15	42.67	1.52	1.5	99	0.00	0	--	--	--	rubble/cave

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.67	44.20	1.53	1.1	72	0.00	0	--	--	--	rubble/cave
44.20	45.72	1.52	3.5	230	0.00	0	--	--	--	rubble/cave
45.72	47.24	1.52	1.5	99	0.00	0	--	--	--	too much recovery. Rubble/cave
47.24	47.55	0.31	0.2	65	0.00	0	--	--	--	rubble/cave

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382417	6885212	1252	230.12

ZONE: Rusk

SECTION:

HOLE: KL -20-475

CLAIM: YA78057

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 21.34m, Out

Drilling Dates: Sep 03 - Sep 09, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.4	1.4	CAS
1.4	57.5	56.1	OVB
57.5	76.2	18.7	QFP
76.2	126.65	50.45	BXA
126.65	142.83	16.18	BXA
142.83	179.83	37	BXA
179.83	222	42.17	VOL
222	230.12	8.12	FLR

SAMPLES	
Numbers:	W599625 to W599694
Total:	70
Batch:	015, 016
Certificates:	WH20203591, WH20208123

COMMENTS

Hole abandoned at 230.12m due to fault. Broken rock and fault encountered through entire length of hole. No downhole survey, tool dropped in hole and damaged.
Handheld GPS accuarcy of 1.4m

Box Log

KL -20-475

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.4	4.8
2	4.8	8
3	8	12.19
4	12.19	16.85
5	16.85	20.8
6	20.8	23.8
7	23.8	26.5
8	26.5	29.4
9	29.4	31.75
10	31.75	35.55
11	35.55	39.8
12	39.8	42.9
13	42.9	46.35
14	46.35	49.55
15	49.55	52.8
16	52.8	56.14
17	56.14	59.44
18	59.44	63.75
19	63.75	67.67
20	67.67	71.27
21	71.27	75.36
22	75.36	78.97
23	78.97	82.5
24	82.5	86.31
25	86.31	89.85
26	89.85	93.58
27	93.58	97.21
28	97.21	100.65
29	100.65	104.43
30	104.43	108.03

Box Number	From (m)	To (m)
31	108.03	111.54
32	111.54	115.59
33	115.59	119.58
34	119.58	123.31
35	123.31	126.53
36	126.53	130.33
37	130.33	134.66
38	134.66	138.79
39	138.79	142.83
40	142.83	146.52
41	146.52	150.2
42	150.2	153.92
43	153.92	156.95
44	156.95	160.3
45	160.3	164.11
46	164.11	168.08
47	168.08	172.25
48	172.25	176.6
49	176.6	180.45
50	180.45	184.1
51	184.1	187
52	187	190
53	190	193.55
54	193.55	197.65
55	197.65	200.82
56	200.82	203.85
57	203.85	207.26
58	207.26	211.3
59	211.3	214.65
60	214.65	218.22

Box Number	From (m)	To (m)
61	218.22	222.03
62	222.03	225.3
63	225.3	229
64	229	230.12

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-475									
	46.35	14.8	HTW	OVB	1492	911	2.62	2.6	qfp dyke, clay alteration of feldspars
	70.1	12.8	NTW	QFP	774.6	476.8	2.14	2.6	qft dyke, clay altered feldspars
	130.45	14.8	NTW	BXA	920.2	572.5	2.2	2.7	clay altered andesite, highly fractured
	208	12	NTW	VOL	799	510	2.35	2.8	weakly clay altered andesitic volcanics

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	CAS	--	Casing. No recovery.							
1.40	21.00	19.60	OVB	--	Convincingly overburden.							
21.00	25.75	4.75	SIL	--	Broken silicous vein boulders interspersed with overburden materail.							
						MD	GY	BN				
						MD	BF					
						LT	GY					
						LT	GN					
25.75	26.50	0.75	CLY	--	white green clay with fe-oxide staining. Looks like key lime pie mixed with whipped cream and angular beach sand and gravel.							
						LT	GY		CLY	4I		
						LT	GN					
						LT	WH					
						LT	OR					
26.50	39.80	13.30	SIL	--	Broken silicious dyke interspersed with overburden clay-mud-gravel. Dark black-brown sandy interval at 35.55m, possibly organics or manganese oxides?							
						MD	GY	BN				
						LT	GY					
						LT	OR					
39.80	57.50	17.70	QFP	--	QFP dyke boulders interspersed with clay-mud-gravel overburden. Rubbly and broken. Manganese oxide dendritic staining around some fractures. Pervasively oxidized. Pervasive clay alteration of feldspars in qfp dyke material.							
						MD	BN	BN	OXI	3I		
						MD	OR		CLY	3I		
						MD	GY					
						MD	BK					
						LT	GY					
57.50	65.00	7.50	QFP	FG	Patchy but dominantly oxidized. Pervasive moderate clay alteration. Rubbly in sections. Dendritic manganese oxides common near to fractures.							
						MD	BN	CR	CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	OR		OXI	3I		
						LT	GY					
65.00	76.20	11.20	QFP	FG	Patches of unaltered dyke surrounded by clay altered dyke. Unable to tell what controls alteration. Minor carbonate veinlets with trace to minor disseminated pyrite in vein halos. Rubbly sections, sheared/brecciated, but minor, 20 deg tca.							
						MD	GY		CLY	3I	Py	0.5
						MD	GN					
						LT	BF					
						LT	GY		SER	2I		
						LT	GN					
76.20	79.00	2.80	BXA	FG	silica altered and bleached crumbly breccia. Oxidation in some fractures							
						MD	GY					
						LT	GY					
79.00	81.70	2.70	VOL	FG	brecciated relithified							
81.70	83.00	1.30	VOL	FG	hematite stained volcanics(?). Weakly silica altered.							
						LT	GY		HEM	2I		
						LT	GN		CLY	2I		
						LT	PU		SIL	1I		
83.00	86.00	3.00	BXA	FG	fractured and crackled, locally sheared. Localized bleaching around small carbonate infilled fractures. Trace to minor disseminated sulphides. Minor shears, ~1cm, at 25 deg tca, at 85.7m and 86m with minor py in gouge material. Minor patchy silica alteration.							
						MD	GY					
						LT	PU	BN	CLY	2I	Py	0.5
						LT	GN		SIL	1I		
						LT	GY		HEM	1I		
86.00	109.85	23.85	VOL	MG	Light green grey, pervasive clay alteration of feldspars, locally rubbly and faulted. Trace to minor disseminated pyrite, possibly replacing mafic minerals?							
						MD	GY					
						LT	GN	CR	SER	2I		
						LT	GY	BN	CLY	4I	Py	1
109.85	111.50	1.65	VOL	FG	dark green unaltered brecciated volcanics, rubble interval in middle of section							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
111.50	113.25	1.75	VOL	FG	light green grey altered brecciated volcanics. Patchy alteration thoguhout, sericite alteration, hematite, clay..							
113.25	126.65	13.40	VOL	FG	brecciated volcanics, generally unaltered, but patchy silica alteration							
						MD	BN					
						DK	GN	BX	SIL	3I		
						DK	GY					
126.65	130.30	3.65	FLR	--	highly fractured. Shears at various angles. Highly fractured.							
						MD	GY	BX	CLY	4I		
						LT	GN					
						LT	GY		SER	3I		
130.30	132.10	1.80	VOL	--	fractured, but more competent							
						MD	GY		SER	3I		
						LT	GY	CR	CLY	4I		
						LT	GN					
132.10	138.10	6.00	FLR	--	Disseminated py and minor sphal and trace apsy. Highly fractured. Localized silica alteration, still very fractured.							
						MD	GY	BX	CLY	4I	Py	1
						LT	GY		SER	3I	Sp	0.5
									SIL	2I	Gn	0.5
											As	0.1
138.10	140.40	2.30	VOL	--	fractured crackled volcanics, pervasive clay alteration and sericite alteration.							
						MD	GY					
						LT	GN	CR	CLY	4I		
						LT	GY		SER	3I		
140.40	142.83	2.43	FLR	--	Highly fractured fault breccia. Minor py in fault gouge. Pervasive clay alteration.							
						MD	GY	BX	CLY	4I	Py	0.5
						LT	GY		SER	2I		
142.83	147.00	4.17	VOL	--	volcanic breccia. Highly broken, clay altered. Minor carbonate veining							
						MD	GY	BN	CLY	3I		
						LT	GN		SER	2I		
						LT	GY		HEM	1I		
						LT	PU					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
147.00	148.00	1.00	VOL	--	minor sulphides, Sphal and py and minor gal and aspy in small veins, or in sheared intervals. Broken to all heck.							
						MD	GY	BN	CLY	3I	Sp	2
						LT	GY				Py	1
						LT	GN				Gn	0.5
						LT	BF				As	0.1
148.00	152.50	4.50	VOL	--	volcanic breccia, clay altered, highly broken							
						MD	GY	BN	CLY	3I		
						LT	GY		SER	2I		
						LT	PU					
						LT	GN		HEM	2I		
152.50	153.00	0.50	VOL	--	small band of ASPY with minor PY,GAL,SPHAL at 50 deg tca. Minor carbonate veinlets							
						MD	GY	CR	SER	2I	As	1
						LT	GY		CLY	3I	Sp	0.5
						LT	GN				Py	0.5
											Gn	0.1
153.00	163.00	10.00	VOL	--	highly broken and clay altered, brecciated volcanics. Minor sulphides, Py with trace Aspy. Locally sheared and rubbly.							
						MD	GY	BN	CHL	2I	Py	0.5
						MD	PU					
						LT	GN		HEM	2I	As	0.5
						LT	GY					
163.00	167.00	4.00	VOL	--	Broken volcanics. Sericite and clay alteration patchy hematite alteration.							
						MD	GY	CR	SER	2I	He	0.1
						MD	PU	BN	CLY	2I		
						MD	GN		HEM	2I		
167.00	170.00	3.00	VOL	FG	Lithified volcanic breccia. Light green grey, cometent. Weakly magnetic black metallic mineral in some carbonate veinlets, Illite? Magnetite+Hematite?							
						MD	GY					
						LT	GN	CR	SER	2I	He	0.5
						LT	GY		CLY	1I		
170.00	175.50	5.50	VOL	FG	chlorite altered fine grained intermediate volcanics. Autobrecciated? Patchy weak clay alteration around small fractures, often with patchy hematite alteration associated.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN	MA				
175.50	179.83	4.33	VOL	--	Crackled, broken to brecciated pervasively clay altered intermediate volcanics. Small band of sulphides, 50 deg tca, Gal,sphal,py,aspy, ~1cm wide. Brecciated interval at 178 with green grey calcite infill.							
						MD	GY				Sp	0.5
						MD	GN				As	0.1
						LT	GN	CR	SER	3I	Gn	0.5
						LT	GY		CLY	2I	Py	0.5
179.83	222.00	42.17	VOL	FG	same as general lith							
222.00	230.12	8.12	FLR	--	Same as general lith							

KL -20-475

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.40	1.40	CAS	OVB	--	Casing. No recovery.
1.40	21.00	19.60	OVB	OVB	--	Convincingly overburden.
21.00	25.75	4.75	SIL	OVB	--	Broken silicous vein boulders interspersed with overburden materail.
25.75	26.50	0.75	CLY	OVB	--	white green clay with fe-oxide staining. Looks like key lime pie mixed with whipped cream and angular beach sand and gravel.
26.50	39.80	13.30	SIL	OVB	--	Broken silicious dyke interspersed with overburden clay-mud-gravel. Dark black-brown sandy interval at 35.55m, possibly organics or manganese oxides?
39.80	57.50	17.70	QFP	OVB	--	QFP dyke boulders interspersed with clay-mud-gravel overburden. Rubbly and broken. Manganese oxide dendritic staining around some fractures. Pervasively oxidized. Pervasive clay alteration of feldspars in qfp dyke material.
57.50	65.00	7.50	QFP	DYK	FG	Patchy but dominantly oxidized. Pervasive moderate clay alteration. Rubbly in sections. Dendritic manganese oxides common near to fractures.
65.00	76.20	11.20	QFP	DYK	FG	Patches of unaltered dyke surrounded by clay altered dyke. Unable to tell what controls alteration. Minor carbonate veinlets with trace to minor disseminated pyrite in vein halos. Rubbly sections, sheared/brecciated, but minor, 20 deg tca.
76.20	79.00	2.80	BXA	VOL	FG	silica altered and bleached crumbly breccia. Oxidation in some fractures
79.00	81.70	2.70	VOL	VOL	FG	brecciated relithified
81.70	83.00	1.30	VOL	VOL	FG	hematite stained volcanics(?). Weakly silica altered.
83.00	86.00	3.00	BXA	VOL	FG	fractured and crackled, locally sheared. Localized bleaching around small carbonate infilled fractures. Trace to minor disseminated sulphides. Minor shears, ~1cm, at 25 deg tca, at 85.7m and 86m with minor py in gouge material. Minor patchy silica alteration.
86.00	109.85	23.85	VOL	VOL	MG	Light green grey, pervasive clay alteration of feldspars, locally rubbly and faulted. Trace to minor disseminated pyrite, possibly replacing mafic minerals?
109.85	111.50	1.65	VOL	VOL	FG	dark green unaltered brecciated volcanics, rubble interval in middle of section
111.50	113.25	1.75	VOL	VOL	FG	light green grey altered brecciated volcanics. Patchy alteration thoguhout, sericite alteration, hematite, clay..
113.25	126.65	13.40	VOL	VOL	FG	brecciated volcanics, generally unaltered, but patchy silica alteration
126.65	130.30	3.65	FLR	FLT	--	highly fractured. Shears at various angles. Highly fractured.
130.30	132.10	1.80	VOL	FLT	--	fractured, but more competent
132.10	138.10	6.00	FLR	FLT	--	Disseminated py and minor sphal and trace apsy. Highly fractured. Localized silica alteration, still very fractured.
138.10	140.40	2.30	VOL	FLT	--	fractured crackled volcanics, pervasive clay alteration and sericite alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
140.40	142.83	2.43	FLR	FLT	--	Highly fractured fault breccia. Minor py in fault gouge. Pervasive clay alteration.
142.83	147.00	4.17	VOL	VOL	--	volcanic breccia. Highly broken, clay altered. Minor carbonate veining
147.00	148.00	1.00	VOL	VOL	--	minor sulphides, Sphal and py and minor gal and aspy in small veins, or in sheared intervals. Broken to all heck.
148.00	152.50	4.50	VOL	VOL	--	volcanic breccia, clay altered, highly broken
152.50	153.00	0.50	VOL	VOL	--	small band of ASPY with minor PY,GAL,SPHAL at 50 deg tca. Minor carbonate veinlets
153.00	163.00	10.00	VOL	VOL	--	highly broken and clay altered, brecciated volcanics. Minor sulphides, Py with trace Aspy. Locally sheared and rubbly.
163.00	167.00	4.00	VOL	VOL	--	Broken volcanics. Sericite and clay alteration patchy hematite alteration.
167.00	170.00	3.00	VOL	VOL	FG	Lithified volcanic breccia. Light green grey, cometent. Weakly magnetic black metallic mineral in some carbonate veinlets, Illite? Magnetite+Hematite?
170.00	175.50	5.50	VOL	VOL	FG	chlorite altered fine grained intermediate volcanics. Autobrecciated? Patchy weak clay alteration around small fractures, often with patchy hematite alteration associated.
175.50	179.83	4.33	VOL	VOL	--	Crackled, broken to brecciated pervasively clay altered intermediate volcanics. Small band of sulphides, 50 deg tca, Gal,sphal,py,aspy, ~1cm wide. Brecciated interval at 178 with green grey calcite infill.
179.83	222.00	42.17	VOL	VOL	FG	same as general lith
222.00	230.12	8.12	FLR	FLT	--	Same as general lith

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	CAS	--	Casing. No recovery.							
1.40	57.50	56.10	OVB	--	Overburden. Convincingly overburden down to 21m, then difficult to tell where bedrock starts and overburden ends. Intervals of decently competent rock cut by layers of clay and/or mud/sand/gravel/rubble and/or organic/charcoal layers.							
						MD	BN	RB				
						MD	GY					
57.50	76.20	18.70	QFP	FG	Subhedral feldspar phenocrysts and poorly formed blebs of quartz in fine grained buff-green-grey matrix. Minor small laths of amphibolite, altered to greenish buff clay. Pervasive white clay alteration of feldspars, additionally patchy weak carbonate (siderite?) alteration of feldspars near to minor carbonate/calcite filled fractures/veinlets. Trace disseminated Py, seemingly near to small carbonate veinlets, appearing at 73m.							
						LT	GY	PO	CLY	3I	Py	0.1
						LT	BF	MA	SID	1I		
						LT	GN	CR	SER	3I		
						MD	GN					
						MD	GY					
76.20	126.65	50.45	BXA	--	Brecciated intermediate volcanics. Either syn-formational auto-brecciation, or fault fractured and generally relithified. Patchy silica alteration. Patchy moderate clay alteration, concentrated around sheared intervals. Patchy weak hematite alteration. Small intervals of gouge orientated at 25 deg tca, at 85.7m and 86m.							
								SN				
						LT	GY	BN	CLY	3I	Py	0.5
						LT	GN	CR	HEM	1I		
						MD	GY	FR	SIL	2I		
						LT	PU	RX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
126.65	142.83	16.18	BXA	--	Clay-sericite altered fault breccia. Protolith intermediate volcanic with abundant small feldspar phenocrysts with minor hornblende and quartz. Pervasive clay alteration, localized silica alteration, highly fractured. Minor sulphides at 132.8m.							
						LT	GY	FR	SER	3I	Sp	0.1
						LT	GN	CR	SIL	2I	As	0.1
								BX				
						MD	GY	BN	CLY	4I	Py	0.5
142.83	179.83	37.00	BXA	--	Volcanic breccia. Autobreccia? Relithified fault breccia? Possibly both? Majority of interval highly broken and rubbly, becoming more competent at ~166m. Patchy alteration, clay and sericite with minor hematite. Minor hematite infill in fractures. Trace sulphides, either patchy disseminated or in small bands/veinlets.							
						MD	GY	BN	CLY	3I	Py	0.5
						LT	GY		SER	2I	Sp	0.1
						LT	PU		HEM	2I	Gn	0.1
						LT	GN				As	0.1
179.83	222.00	42.17	VOL	FG	fine grained intermediate volcanics. Very broken, locally rubble/strained/sheared. Pervasive weak clay alteration. Pervasive weak chlorite alteration.							
						MD	GY	RB	CLY	2I		
						MD	GN	CR	CHL	2I		
222.00	230.12	8.12	FLR	--	Pervasive weak-moderate clay-chlorite alteration of intermedaite volcanics, totally sheared and rubble. Becoming pure gouge towards end of interval. Trace disseminated Py in gougy material.							
						LT	GN					
						MD	GY	FD	CLY	2I	Py	0.1
						LT	GY	CR	CHL	2I		
						MD	GN	SH				

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.40	1.40	0	0	0.00	0	--	--	--	
1.40	1.52	0.12	0.12	100	0.00	0	--	3H	3W	Rubble zone
1.52	3.05	1.53	1.07	70	0.00	0	--	1H	6W	Overburden
3.05	4.57	1.52	0.97	64	0.00	0	--	1H	5W	Overburden
4.57	6.10	1.53	0.93	61	0.00	0	--	1H	6W	Overburden
6.10	7.62	1.52	1.24	82	0.00	0	--	1H	5W	Overburden
7.62	9.14	1.52	1.18	78	0.00	0	--	1H	6W	Overburden
9.14	10.67	1.53	1.12	73	0.00	0	--	1H	6W	Overburden
10.67	12.19	1.52	0.37	24	0.00	0	--	3H	4W	Overburden (pebbles)
12.19	13.72	1.53	0.07	5	0.00	0	--	3H	3W	Overburden (pebbles)
13.72	15.24	1.52	1.12	74	0.00	0	--	1H	6W	Overburden
15.24	16.76	1.52	1.33	88	0.00	0	--	1H	6W	Overburden
16.76	18.29	1.53	1.16	76	0.00	0	--	1H	6W	Overburden
18.29	19.81	1.52	0.54	36	0.00	0	--	1H	6W	Overburden
19.81	21.34	1.53	1.08	71	0.00	0	--	1H	6W	Overburden
21.34	22.86	1.52	1.27	84	0.00	0	--	2H	4W	Overburden
22.86	24.38	1.52	0.83	55	0.00	0	--	2H	4W	Overburden
24.38	25.91	1.53	1.51	99	0.00	0	--	1H	4W	Overburden
25.91	27.43	1.52	1.28	84	0.00	0	--	2H	4W	Overburden
27.43	28.96	1.53	1.13	74	0.00	0	--	1H	6W	Overburden
28.96	30.48	1.52	1.44	95	0.00	0	--	3H	3W	Overburden (pebbles and boulders)
30.48	32.00	1.52	1.26	83	0.00	0	--	2H	3W	Overburden (pebbles and boulders)
32.00	33.53	1.53	0.54	35	0.00	0	--	3H	3W	Overburden (boulders)
33.53	35.05	1.52	1.2	79	0.00	0	--	3H	2W	Overburden (boulders)
35.05	36.58	1.53	1.05	69	0.00	0	--	2H	3W	Overburden
36.58	38.10	1.52	0.78	51	0.00	0	--	1H	6W	Overburden
38.10	39.62	1.52	0.76	50	0.00	0	--	2H	4W	Overburden (pebbles)
39.62	41.15	1.53	0.88	58	0.00	0	--	2H	5W	Overburden
41.15	42.67	1.52	1.08	71	0.00	0	--	2H	5W	Overburden

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.67	44.20	1.53	1.06	69	0.00	0	--	1H	5W	Overburden
44.20	45.72	1.52	0.96	63	0.00	0	--	1H	5W	Overburden
45.72	47.24	1.52	1.08	71	0.00	0	--	1H	5W	Overburden
47.24	48.77	1.53	1.15	75	0.00	0	--	1H	5W	Overburden
48.77	50.29	1.52	1.03	68	0.00	0	--	2H	4W	Overburden
50.29	51.82	1.53	1.22	80	0.00	0	--	1H	5W	Overburden
51.82	53.34	1.52	1.16	76	0.00	0	--	2H	4W	Overburden
53.34	54.86	1.52	1.24	82	0.00	0	--	2H	4W	Overburden
54.86	56.39	1.53	1.28	84	0.00	0	--	2H	5W	Overburden
56.39	57.91	1.52	1.24	82	0.00	0	--	2H	4W	Overburden
57.91	59.44	1.53	0.82	54	0.19	12	--	2H	4W	Bedrock contact likely in this interval
59.44	60.96	1.52	1.25	82	0.12	8	--	3H	3W	
60.96	62.48	1.52	1.29	85	1.00	66	--	3H	2W	
62.48	65.53	3.05	2.8	92	0.11	4	--	1H	3W	
65.53	68.58	3.05	2.76	90	0.64	21	--	3H	2W	
68.58	70.10	1.52	1.45	95	0.69	45	--	3H	2W	
70.10	73.15	3.05	2.97	97	1.17	38	--	3H	2W	
73.15	76.20	3.05	2.6	85	0.60	20	--	3H	2W	
76.20	79.25	3.05	2.92	96	1.31	43	--	3H	2W	
79.25	82.30	3.05	2.97	97	1.00	33	--	3H	1W	
82.30	85.34	3.04	2.9	95	1.40	46	--	3H	1W	
85.34	88.09	2.75	2.72	99	0.61	22	--	2H	1W	
88.09	91.14	3.05	3.04	100	1.52	50	--	3H	1W	
91.14	94.18	3.04	3.03	100	0.89	29	--	2H	1W	
94.18	97.54	3.36	3.32	99	0.42	13	--	2H	1W	
97.54	99.36	1.82	1.68	92	0.11	6	--	2H	1W	
99.36	102.11	2.75	2.75	100	1.84	67	--	2H	1W	
102.11	105.16	3.05	2.96	97	1.89	62	--	3H	1W	
105.16	108.20	3.04	3.04	100	2.37	78	--	3H	1W	
108.20	111.25	3.05	3	98	0.97	32	--	2H	1W	
111.25	114.30	3.05	3.05	100	2.33	76	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
114.30	117.35	3.05	3.05	100	2.35	77	--	4H	1W	
117.35	120.40	3.05	3.05	100	2.93	96	--	4H	1W	
120.40	123.44	3.04	3.04	100	1.30	43	--	3H	1W	
123.44	126.49	3.05	2.96	97	0.97	32	--	3H	1W	
126.49	129.54	3.05	3.05	100	2.05	67	--	2H	1W	
129.54	132.59	3.05	2.93	96	2.43	80	--	2H	1W	
132.59	135.64	3.05	2.92	96	1.39	46	--	2H	1W	
135.64	138.68	3.04	3.02	99	1.21	40	--	1H	1W	
138.68	141.43	2.75	2.74	100	0.77	28	--	1H	1W	
141.43	143.26	1.83	1.83	100	0.40	22	--	1H	1W	
143.26	146.30	3.04	3.04	100	0.35	12	--	3H	1W	
146.30	149.35	3.05	3.05	100	0.41	13	--	3H	1W	
149.35	151.79	2.44	2.44	100	0.13	5	--	2H	1W	
151.79	153.92	2.13	1.89	89	0.55	26	--	2H	1W	
153.92	155.45	1.53	1.53	100	0.00	0	--	2H	1W	
155.45	158.50	3.05	2.93	96	0.58	19	--	2H	1W	
158.50	161.24	2.74	2.59	95	0.24	9	--	2H	1W	
161.24	163.07	1.83	1.7	93	0.16	9	--	3H	1W	
163.07	165.51	2.44	2.44	100	0.88	36	--	3H	1W	
165.51	167.64	2.13	2.02	95	1.28	60	--	3H	1W	
167.64	170.69	3.05	2.92	96	1.81	59	--	3H	1W	
170.69	173.74	3.05	3.03	99	2.09	69	--	4H	1W	
173.74	176.78	3.04	3.02	99	2.11	69	--	3H	1W	
176.78	179.83	3.05	3.03	99	1.31	43	--	3H	1W	
179.83	181.66	1.83	1.83	100	0.28	15	--	2H	1W	
181.66	184.40	2.74	2.48	91	0.14	5	--	3H	1W	
184.40	186.54	2.14	2.14	100	0.00	0	--	3H	1W	
186.54	188.98	2.44	2.37	97	0.21	9	--	3H	1W	
188.98	191.41	2.43	2.42	100	0.00	0	--	2H	1W	
191.41	193.85	2.44	1.88	77	0.00	0	--	2H	1W	
193.85	195.68	1.83	1.31	72	0.24	13	--	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
195.68	199.03	3.35	3.25	97	1.08	32	--	2H	1W	
199.03	199.64	0.61	0.61	100	0.00	0	--	2H	1W	
199.64	202.69	3.05	2.49	82	0.13	4	--	3H	1W	
202.69	205.74	3.05	2.89	95	0.60	20	--	3H	1W	
205.74	207.26	1.52	1.17	77	0.00	0	--	3H	1W	
207.26	210.31	3.05	3.05	100	1.91	63	--	4H	1W	
210.31	213.36	3.05	3.05	100	0.91	30	--	4H	1W	
213.36	216.10	2.74	2.51	92	0.58	21	--	4H	1W	
216.10	217.93	1.83	1.52	83	0.00	0	--	2H	1W	
217.93	219.46	1.53	1.37	90	0.00	0	--	2H	1W	
219.46	222.50	3.04	3	99	0.10	3	--	2H	1W	
222.50	225.55	3.05	3.05	100	0.00	0	--	1H	1W	
225.55	228.60	3.05	2.95	97	0.00	0	--	1H	1W	
228.60	230.12	1.52	1.52	100	0.00	0	--	1H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
23	0.165	OVB	
24	0.1	OVB	
25	0.108	OVB	
26	0.143	OVB	
27	0.08	OVB	
28	0.149	OVB	
29	0.119	OVB	
30	0.1	OVB	
31	0.089	OVB	
32	0.079	OVB	
33	0.141	OVB	
34	0.145	OVB	
35	0.205	OVB	
36	0.166	OVB	
37	0.088	OVB	
38	0.194	OVB	
39	0.152	OVB	
40	0.183	OVB	
41	0.082	OVB	
42	0.025	OVB	
43	0.096	OVB	
44	0.124	OVB	
45	0.141	OVB	
46	0.121	OVB	
47	0.181	OVB	
48	0.096	OVB	
49	0.137	OVB	
50	0.149	OVB	
51	0.095	OVB	
52	0.235	OVB	
53	0.135	OVB	
54	0.126	OVB	
55	0.026	OVB	
56	0.135	OVB	
57	0.093	OVB	
58	0.145	QFP	
59	0.154	QFP	
60	0.111	QFP	
61	0.19	QFP	
62	0.128	QFP	
63	0.022	QFP	
64	0.201	QFP	
65	0.194	QFP	
66	0.173	QFP	
67	0.18	QFP	
68	0.16	QFP	
69	0.704	QFP	
70	0.62	QFP	mostly unaltered
71	0.459	QFP	
72	0.184	QFP	
73	0.199	QFP	
74	0.75	QFP	
75	0.393	QFP	
76	0.215	QFP	
77	0.181	BXA	
78	0.039	BXA	
79	0.387	BXA	
80	1.253	BXA	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
81	0.863	BXA	
82	4.344	BXA	
83	1.108	BXA	
84	0.717	BXA	
85	0.145	BXA	
86	0.264	BXA	
87	0.52	BXA	
88	0.505	BXA	
89	0.139	BXA	
90	0.269	BXA	
91	0.051	BXA	
92	0.263	BXA	
93	0.116	BXA	
94	0.17	BXA	
95	0.054	BXA	
96	0.031	BXA	
97	0.32	BXA	
98	0.03	BXA	
99	0.051	BXA	
100	0.163	BXA	
101	0.164	BXA	
102	0.125	BXA	
103	0.057	BXA	
104	0.362	BXA	
105	0.354	BXA	
106	0.309	BXA	
107	0.124	BXA	
108	0.31	BXA	
109	0.697	BXA	
110	7.699	BXA	
111	6.383	BXA	
112	0.334	BXA	
113	9.566	BXA	
114	11.01	BXA	
115	14.29	BXA	
116	10.59	BXA	
117	14.71	BXA	
118	9.29	BXA	
119	17.82	BXA	
120	5.166	BXA	
121	7.831	BXA	
122	5.2	BXA	
123	7.129	BXA	
124	1.065	BXA	
125	8.418	BXA	
126	6.358	BXA	
127	0.192	BXA	
128	0.162	BXA	
129	0.468	BXA	
130	0.179	BXA	
131	0.237	BXA	
132	0.204	BXA	
133	0.502	BXA	
134	0.185	BXA	
135	0.246	BXA	
136	0.038	BXA	
137	0.201	BXA	
138	0.32	BXA	
139	0.365	BXA	
140	0.437	BXA	
141	0.179	BXA	
142	0.553	BXA	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
143	0.295	BXA	
144	0.363	BXA	
145	0.224	BXA	
146	0.467	BXA	
147	0.254	BXA	
148	0.354	BXA	
149	0.267	BXA	
150	0.742	BXA	
151	0.251	BXA	
152	0.318	BXA	
153	0.293	BXA	
154	0.135	BXA	
155	0.078	BXA	
156	0.192	BXA	
157	0.208	BXA	
158	0.257	BXA	
159	0.36	BXA	
160	0.586	BXA	
161	0.176	BXA	
162	0.543	BXA	
163	0.635	BXA	
164	0.327	BXA	
165	12.51	BXA	
166	17.45	BXA	
167	0.533	BXA	
168	0.405	BXA	
169	0.509	BXA	
170	2.487	BXA	
171	15.86	BXA	
172	25.17	BXA	
173	14.37	BXA	
174	17.03	BXA	
175	19.07	BXA	
176	0.322	BXA	
177	0.262	BXA	
178	0.47	BXA	
179	0.305	BXA	
180	3.798	VOL	
181	6.627	VOL	
182	8.659	VOL	
183	18.75	VOL	
184	22.46	VOL	
185	17.1	VOL	
186	6.451	VOL	
187	20.52	VOL	
188	15.68	VOL	
189	3.966	VOL	
190	1.749	VOL	
191	11.87	VOL	
192	19.56	VOL	
193	1.428	VOL	
194	4.77	VOL	
195	1.364	VOL	
196	7.164	VOL	
197	17.37	VOL	
198	27.08	VOL	
199	12.35	VOL	
200	28.04	VOL	
201	37.52	VOL	
202	45.51	VOL	
203	23.16	VOL	
204	12.27	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
205	21.19	VOL	
206	26.81	VOL	
207	35.22	VOL	
208	54.03	VOL	
209	45.06	VOL	
210	6.847	VOL	
211	21.01	VOL	
212	15.76	VOL	
213	14.1	VOL	
214	5.6	VOL	
215	22.85	VOL	
216	8.59	VOL	
217	8.498	VOL	
218	25.54	VOL	
219	28.12	VOL	
220	15.58	VOL	
221	13.17	VOL	
222	0.809	VOL	
222	0.809	FLR	
223	6.033	FLR	
224	7.659	FLR	
225	11.12	FLR	
226	3.24	FLR	
227	7.12	FLR	
228	0.886	FLR	
229	12.87	FLR	
230	11.23	FLR	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599651	☐	20-015	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599662	☐	20-015	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599669	☐	20-016	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599678	☐	20-016	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599684	☐	20-016	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599633	☐	20-015	Low Grade	Klaza20 20-A	☐	☐	☐
76.20	77.70	1.50	BXA, QFP	1.50	100	W599625	☐	20-015	Low Grade		☐	☐	☐
77.70	79.20	1.50	BXA	1.40	93	W599626	☐	20-015	Low Grade		☐	☐	☐
79.20	80.70	1.50	BXA	1.45	97	W599627	☐	20-015	Low Grade		☐	☐	☐
80.70	82.20	1.50	BXA	1.50	100	W599628	☐	20-015	Low Grade		☐	☐	☐
82.20	83.70	1.50	BXA	1.48	99	W599629	☐	20-015	Low Grade		☐	☐	☐
83.70	85.20	1.50	BXA	1.40	93	W599630	☐	20-015	Low Grade		☐	☐	☐
85.20	86.70	1.50	BXA	1.50	100	W599631	☐	20-015	Low Grade		☐	☐	☐
86.70	88.20	1.50	BXA	1.50	100	W599632	☐	20-015	Low Grade		☐	☐	☐
88.20	89.00	0.80	BXA	0.80	100	W599634	☐	20-015	Low Grade		☐	☐	☐
89.00	90.00	1.00	BXA	0.95	95	W599635	☐	20-015	Low Grade		☐	☐	☐
90.00	91.50	1.50	BXA	1.48	99	W599636	☐	20-015	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
118.00	119.50	1.50	BXA	1.50	100	W599637	☐	20-015	Low Grade		☐	☐	☐
118.00	119.50	1.50	BXA	1.50	100	W599638	☐	20-015	Low Grade		☐	☑	☐
119.50	121.00	1.50	BXA	1.50	100	W599639	☐	20-015	Low Grade		☐	☐	☐
121.00	122.50	1.50	BXA	1.50	100	W599640	☐	20-015	Low Grade		☐	☐	☐
122.50	124.00	1.50	BXA	1.35	90	W599641	☐	20-015	Low Grade		☐	☐	☐
124.00	125.50	1.50	BXA	1.40	93	W599642	☐	20-015	Low Grade		☐	☐	☐
125.50	127.00	1.50	BXA	1.46	97	W599643	☐	20-015	Low Grade		☐	☐	☐
127.00	128.50	1.50	BXA	1.50	100	W599644	☐	20-015	Low Grade		☐	☐	☐
128.50	130.00	1.50	BXA	1.50	100	W599645	☐	20-015	Low Grade		☐	☐	☐
130.00	131.50	1.50	BXA	1.50	100	W599646	☐	20-015	Low Grade		☐	☐	☐
131.50	132.60	1.10	BXA	1.10	100	W599647	☐	20-015	Low Grade		☐	☐	☐
132.60	133.10	0.50	BXA	0.50	100	W599648	☐	20-015	Low Grade		☐	☐	☐
133.10	134.50	1.40	BXA	1.40	100	W599649	☐	20-015	Low Grade		☐	☐	☐
134.50	136.00	1.50	BXA	1.40	93	W599650	☐	20-015	Low Grade		☐	☐	☐
136.00	137.50	1.50	BXA	1.50	100	W599652	☐	20-015	Low Grade		☐	☐	☐
137.50	139.00	1.50	BXA	1.50	100	W599653	☐	20-015	Low Grade		☐	☐	☐
139.00	140.45	1.45	BXA	1.35	93	W599654	☐	20-015	Low Grade		☐	☐	☐
140.45	141.65	1.20	BXA	1.20	100	W599655	☐	20-015	Low Grade		☐	☐	☐
140.45	141.65	1.20	BXA	1.20	100	W599656	☐	20-015	Low Grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
141.65	143.00	1.35	BXA	1.20	89	W599657	☐	20-015	Low Grade		☐	☐	☐
143.00	144.50	1.50	BXA	1.50	100	W599658	☐	20-015	Low Grade		☐	☐	☐
144.50	145.80	1.30	BXA	1.30	100	W599659	☐	20-015	Low Grade		☐	☐	☐
145.80	146.80	1.00	BXA	1.00	100	W599660	☐	20-015	Low Grade		☐	☐	☐
146.80	148.00	1.20	BXA	1.20	100	W599661	☐	20-015	Low Grade		☐	☐	☐
148.00	149.50	1.50	BXA	1.50	100	W599663	☐	20-015	Low Grade		☐	☐	☐
149.50	151.00	1.50	BXA	1.35	90	W599664	☐	20-015	Low Grade		☐	☐	☐
151.00	152.50	1.50	BXA	1.40	93	W599665	☐	20-016	Low Grade		☐	☐	☐
152.50	153.00	0.50	BXA	0.50	100	W599666	☐	20-016	Low Grade		☐	☐	☐
153.00	154.50	1.50	BXA	1.50	100	W599667	☐	20-016	Low Grade		☐	☐	☐
154.50	156.00	1.50	BXA	1.50	100	W599668	☐	20-016	Low Grade		☐	☐	☐
156.00	157.50	1.50	BXA	1.50	100	W599670	☐	20-016	Low Grade		☐	☐	☐
157.50	159.00	1.50	BXA	1.50	100	W599671	☐	20-016	Low Grade		☐	☐	☐
159.00	160.50	1.50	BXA	1.50	100	W599672	☐	20-016	Low Grade		☐	☐	☐
160.50	161.13	0.63	BXA	0.45	71	W599673	☐	20-016	Low Grade		☐	☐	☐
161.13	162.50	1.37	BXA	1.33	97	W599674	☐	20-016	Low Grade		☐	☐	☐
162.50	164.00	1.50	BXA	1.40	93	W599675	☐	20-016	Low Grade		☐	☐	☐
164.00	165.50	1.50	BXA	1.50	100	W599676	☐	20-016	Low Grade		☐	☐	☐
165.50	167.00	1.50	BXA	1.42	95	W599677	☐	20-016	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
167.00	168.50	1.50	BXA	1.45	97	W599679	☐	20-016	Low Grade		☐	☐	☐
168.50	170.00	1.50	BXA	1.42	95	W599680	☐	20-016	Low Grade		☐	☐	☐
175.00	176.30	1.30	BXA	1.25	96	W599681	☐	20-016	Low Grade		☐	☐	☐
176.30	177.50	1.20	BXA	1.20	100	W599682	☐	20-016	Low Grade		☐	☐	☐
177.50	178.00	0.50	BXA	0.50	100	W599683	☐	20-016	Low Grade		☐	☐	☐
178.00	179.00	1.00	BXA	1.00	100	W599685	☐	20-016	Low Grade		☐	☐	☐
179.00	180.00	1.00	BXA	1.00	100	W599686	☐	20-016	Low Grade		☐	☐	☐
221.00	222.50	1.50	VOL	1.50	100	W599687	☐	20-016	Low Grade		☐	☐	☐
222.50	224.00	1.50	FLR	1.50	100	W599688	☐	20-016	Low Grade		☐	☐	☐
224.00	225.50	1.50	FLR	1.50	100	W599689	☐	20-016	Low Grade		☐	☐	☐
225.50	227.00	1.50	FLR	1.44	96	W599690	☐	20-016	Low Grade		☐	☐	☐
227.00	227.87	0.87	FLR	0.75	86	W599691	☐	20-016	Low Grade		☐	☐	☐
227.87	228.47	0.60	FLR	0.60	100	W599692	☐	20-016	Low Grade		☐	☐	☐
228.47	228.97	0.50	FLR	0.50	100	W599693	☐	20-016	Low Grade		☐	☐	☐
228.97	230.12	1.15	FLR	1.15	100	W599694	☐	20-016	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-015	W599633	0.00	0.00	0.68	290	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-015	W599651	0.00	0.00	2.81	340	☐	☐	☐	☑ Klaza2020-B	Klaza b
20-015	W599662	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-016	W599669	0.00	0.00	0.59	480	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-016	W599678	0.00	0.00	2.92	330	☐	☐	☐	☑ Klaza2020-B	Klaza b
20-016	W599684	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-015	W599625	76.20	77.70	0.00	1040	☐	☐	☐	☐	
20-015	W599626	77.70	79.20	0.06	320	☐	☐	☐	☐	
20-015	W599627	79.20	80.70	0.06	550	☐	☐	☐	☐	
20-015	W599628	80.70	82.20	0.00	1000	☐	☐	☐	☐	
20-015	W599629	82.20	83.70	0.00	710	☐	☐	☐	☐	
20-015	W599630	83.70	85.20	0.00	1390	☐	☐	☐	☐	
20-015	W599631	85.20	86.70	0.00	470	☐	☐	☐	☐	
20-015	W599632	86.70	88.20	0.00	370	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-015	W599634	88.20	89.00	0.01	870	☐	☐	☐	☐	
20-015	W599635	89.00	90.00	0.00	200	☐	☐	☐	☐	
20-015	W599636	90.00	91.50	0.00	580	☐	☐	☐	☐	
20-015	W599637	118.00	119.50	0.00	2530	☐	☐	☐	☐	
20-015	W599638	118.00	119.50	0.00	2180	☑	☐	☐	☐	quarter dup
20-015	W599639	119.50	121.00	0.00	2080	☐	☐	☐	☐	
20-015	W599640	121.00	122.50	0.00	1770	☐	☐	☐	☐	
20-015	W599641	122.50	124.00	0.00	1310	☐	☐	☐	☐	
20-015	W599642	124.00	125.50	0.00	1680	☐	☐	☐	☐	
20-015	W599643	125.50	127.00	0.00	1770	☐	☐	☐	☐	
20-015	W599644	127.00	128.50	0.00	1180	☐	☐	☐	☐	
20-015	W599645	128.50	130.00	0.01	860	☐	☐	☐	☐	
20-015	W599646	130.00	131.50	0.00	870	☐	☐	☐	☐	
20-015	W599647	131.50	132.60	0.00	970	☐	☐	☐	☐	
20-015	W599648	132.60	133.10	1.14	200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-015	W599649	133.10	134.50	0.42	340	☐	☐	☐	☐	
20-015	W599650	134.50	136.00	0.55	350	☐	☐	☐	☐	
20-015	W599652	136.00	137.50	0.21	450	☐	☐	☐	☐	
20-015	W599653	137.50	139.00	0.13	290	☐	☐	☐	☐	
20-015	W599654	139.00	140.45	0.00	300	☐	☐	☐	☐	
20-015	W599655	140.45	141.65	0.26	340	☐	☐	☐	☐	
20-015	W599656	140.45	141.65	0.29	340	☐	☑	☐	☐	coarse reject
20-015	W599657	141.65	143.00	0.11	310	☐	☐	☐	☐	
20-015	W599658	143.00	144.50	0.02	440	☐	☐	☐	☐	
20-015	W599659	144.50	145.80	0.00	690	☐	☐	☐	☐	
20-015	W599660	145.80	146.80	0.00	410	☐	☐	☐	☐	
20-015	W599661	146.80	148.00	0.27	340	☐	☐	☐	☐	
20-015	W599663	148.00	149.50	0.02	580	☐	☐	☐	☐	
20-015	W599664	149.50	151.00	0.01	530	☐	☐	☐	☐	
20-016	W599665	151.00	152.50	0.01	670	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-016	W599666	152.50	153.00	0.90	500	☐	☐	☐	☐	
20-016	W599667	153.00	154.50	0.02	630	☐	☐	☐	☐	
20-016	W599668	154.50	156.00	0.10	510	☐	☐	☐	☐	
20-016	W599670	156.00	157.50	0.13	460	☐	☐	☐	☐	
20-016	W599671	157.50	159.00	0.08	470	☐	☐	☐	☐	
20-016	W599672	159.00	160.50	0.13	550	☐	☐	☐	☐	
20-016	W599673	160.50	161.13	0.57	190	☐	☐	☐	☐	
20-016	W599674	161.13	162.50	0.01	610	☐	☐	☐	☐	
20-016	W599675	162.50	164.00	0.00	900	☐	☐	☐	☐	
20-016	W599676	164.00	165.50	0.00	910	☐	☐	☐	☐	
20-016	W599677	165.50	167.00	0.00	1090	☐	☐	☐	☐	
20-016	W599679	167.00	168.50	0.03	1060	☐	☐	☐	☐	
20-016	W599680	168.50	170.00	0.01	1010	☐	☐	☐	☐	
20-016	W599681	175.00	176.30	0.01	990	☐	☐	☐	☐	
20-016	W599682	176.30	177.50	0.03	830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-016	W599683	177.50	178.00	1.30	330	☐	☐	☐	☐	
20-016	W599685	178.00	179.00	0.02	480	☐	☐	☐	☐	
20-016	W599686	179.00	180.00	0.02	600	☐	☐	☐	☐	
20-016	W599687	221.00	222.50	0.00	1020	☐	☐	☐	☐	
20-016	W599688	222.50	224.00	0.00	980	☐	☐	☐	☐	
20-016	W599689	224.00	225.50	0.01	1030	☐	☐	☐	☐	
20-016	W599690	225.50	227.00	0.00	620	☐	☐	☐	☐	
20-016	W599691	227.00	227.87	0.00	530	☐	☐	☐	☐	
20-016	W599692	227.87	228.47	2.07	440	☐	☐	☐	☐	
20-016	W599693	228.47	228.97	0.02	850	☐	☐	☐	☐	
20-016	W599694	228.97	230.12	0.08	640	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
61.00	61.01	FR	5	70	NUL	1	oxidized fracture			
61.05	61.06	FR	5	20	NUL	1	oxidized fracture, low angle			
61.20	61.21	SH	81	50	NUL	1	relithified shear			
61.50	61.51	FR	5	35	NUL	1	fracture			
62.00	62.01	SH	81	30	NUL	1	relithified shear			
69.00	69.01	FR	5	70	NUL	1	fracture			
70.80	70.81	FR	5	60	NUL	1	fracture			
77.60	77.65	FR	5	25	NUL	2	fracture			
79.90	79.91	FR	5	55	NUL	1	fracture			
85.70	85.99	SH	81	28	NUL	2	shears with minor gouge hosted py			
88.30	88.31	FR	5	35	NUL	1	fracture			
89.00	89.01	FR	5	20	NUL	1	fracture			
107.10	107.11	SH	81	60	NUL	2	sheared with some sulphides in shear			
111.90	119.95	FR	5	55	NUL	2	fractures with calcite infill			
113.00	113.01	FR	5	35	NUL	1	calcite infill			
117.60	117.61	FR	5	35	NUL	1	calcite infill			
118.00	119.00	FR	5	10	NUL	1	low angle fracture			
121.00	123.00	FR	5	10	NUL	6	low anle fractures			
121.50	122.50	FR	5	65	NUL	3	fractures			
126.00	126.50	FR	5	55	NUL	5	calcite infill			
128.20	128.21	SH	81	65	NUL	1	gougy shear			
129.80	129.81	SH	81	80	NUL	1	black gouge			
130.00	130.10	SH	81	47	NUL	1	clay fill shear			
131.50	132.00	SH	81	40	NUL	3	fracture/shear			
140.45	140.46	SH	81	50	NUL	1	black gouge infill			
146.80	146.81	FR	5	40	NUL	1	fracture			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
147.00	147.05	VT	37	50	NUL	3	aspy and py vienlets			
152.75	152.76	VT	37	65	NUL	1	aspy and py and sphal veinlets			
161.00	161.02	VT	37	60	NUL	1	py and sphal veinlet			
162.30	162.50	FR	5	55	NUL	5	fractures			
166.60	166.70	FR	5	50	NUL	3	fractures			
170.25	170.35	FR	5	50	NUL	2	clay carbonate fractures			
171.10	171.11	FR	5	60	NUL	1	clay carboante infill fractues			
177.70	177.30	VT	37	60	NUL	1	galina-sulphide vein			
179.83	180.00	FR	5	8	NUL	1	specular hematite infill			
187.40	187.60	FR	5	60	NUL	3	clay-carbonate infill fractures			
194.90	195.01	FR	5	35	NUL	2	carbonate hematite infill			
197.60	197.61	FR	5	60	NUL	1	clay chlorite infill			
199.75	199.80	FR	5	60	NUL	1	clay hematite infill, gougy			
202.00	204.00	FR	5	3	NUL	1	carbonate infill, epidote alteration halo			
202.40	202.50	FR	5	35	NUL	2	carboante infill			
207.60	207.61	FR	5	40	NUL	1	fracture			
214.45	214.70	FR	5	3	NUL	1	low angle epidote alteration halo			
222.00	222.05	FR	5	35	NUL	3	fault orientation?			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382322	6885087	1275	288.04

ZONE: Rusk

SECTION:

HOLE: KL -20-476

CLAIM: YA78057

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 09 - Sep 13, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.4	1.4	CAS
1.4	6.1	4.7	OVB
6.1	55.9	49.8	VOL
55.9	84.48	28.58	FLR
84.48	101.3	16.82	FLR
101.3	119.5	18.2	VOL
119.5	134.3	14.8	VOL
134.3	150	15.7	VOL
150	164.3	14.3	QFP
164.3	166.65	2.35	VOL
166.65	207.5	40.85	FLR
207.5	213	5.5	FLR
213	230	17	FLR
230	231.7	1.7	QFP
231.7	239.2	7.5	FLR
239.2	243.35	4.15	VOL

SAMPLES	
Numbers:	B700501, W594232 to W594250, W599695 to W599890
Total:	216
Batch:	011, 016, 017, 018, 019, 020, 021
Certificates:	WH20208123, WH20208130, WH20208132, WH20215126, WH20215130, WH20215134, WH20224721

COMMENTS

Broken generally relithified fault material throughout majority of hole. Some mineralization near bottom of hole. Handheld GPS accuarcy of 1.4m

243.35	248.1	4.75	VOL
248.1	288.04	39.94	VOL

Box Log

KL -20-476

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.4	4.5
2	4.5	7.58
3	7.58	9.94
4	9.94	12.4
5	12.4	15.24
6	15.24	17.9
7	17.9	20.65
8	20.65	23.4
9	23.4	26.25
10	26.25	28.73
11	28.73	31.56
12	31.56	34.3
13	34.3	37.25
14	37.25	40
15	40	42.67
16	42.67	45.15
17	45.15	48.22
18	48.22	51
19	51	54.65
20	54.65	58.4
21	58.4	61.55
22	61.55	65.45
23	65.45	68.84
24	68.84	72.3
25	72.3	75.9
26	75.9	79.99
27	79.99	84.18
28	84.18	88.16
29	88.16	92.4
30	92.4	96.17
31	96.17	100.27
32	100.27	104.23
33	104.23	108.1
34	108.1	113.54
35	113.54	117.29
36	117.29	121.71
37	121.71	125.9
38	125.9	129.7
39	129.7	133.24
40	133.24	137.1
41	137.1	141.25
42	141.25	145.08
43	145.08	148.76
44	148.76	152.69
45	152.69	156.7
46	156.7	160.48
47	160.48	164
48	164	167.45
49	167.45	171.53
50	171.53	175.32
51	175.32	179.08
52	179.08	182.7
53	182.7	186.68
54	186.68	190.79
55	190.79	194.7
56	194.7	198.9
57	198.9	202.91
58	202.91	207.12
59	207.12	211.37
60	211.37	215.6
61	215.6	219.93
62	219.93	224.03
63	224.03	228.46
64	228.46	232.32
65	232.32	236.48
66	236.48	240.3
67	240.3	243.84
68	243.84	246.5
69	246.5	250.68
70	250.68	254.15
71	254.15	257.72
72	257.72	261.42
73	261.42	264.87
74	264.87	268.47
75	268.47	272.46
76	272.46	275.58
77	275.58	278.96
78	278.96	282.65
79	282.65	286.4
80	286.4	288.04

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-476									
	28.73	12.6	HTW	VOL	1363.3	859.2	2.81	2.7	andesite
	46.67	13	HTW	VOL	1364.6	862	2.73	2.7	
	65.12	19	NTW	FLR	1246.7	787.2	2.32	2.7	
	89.8	13	NTW	FLR	812.2	504.4	2.21	2.6	
	123.25	21	NTW	VOL	1307.9	824.4	2.2	2.7	
	152.37	14	NTW	QFP	829.4	522.2	2.1	2.7	
	174	14	NTW	FLR	926.4	580.5	2.34	2.7	
	210.35	13	NTW	FLR	906.9	642.6	2.47	3.4	
	256.14	11	NTW	VOL	911	657.4	2.93	3.6	andesite
	262.73	7	NTW	VOL	886.4	646.4	4.48	3.7	
	269.91	17	NTW	VOL	1466.1	1031.6	3.05	3.4	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	CAS	--	casing, no recovery							
1.40	6.10	4.70	OVB	--	overburden							
6.10	24.51	18.41	VOL	MG	Broken grey-green volcanics with plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally moderately bleached, seemingly related to small fractures, with minor partial Py replacement of phenocrysts in fracture halo.							
						MD	GY	FR	CLY	2I	Py	0.5
						MD	GN		CHL	2I		
									SIL	2I		
24.51	24.57	0.06	CLY	VF	light buff-brown clay seam. Appears out of place, very minor alteration halo in rock above, can picky off chunks with scratcher. Below is rubbly with occasional white-yellow-brown clay infilling seams.							
						LT	BF					
24.57	28.00	3.43	VOL	MG	Rubbly grey-green volcanics with plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz. Patchy silica alteration, generally moderately bleached, seemingly associated with small fractures, and associated with minor partial Py replacement of phenocrysts. White-yellow clay minerals common on fractures and interstitial in rubble, generally pervaisvely oxidized and limonite stained.							
						MD	GY	PO	SIL	2I	Py	0.5
						MD	GN		CLY	4I		
						MD	OR					
						LT	GN	RB	CHL	2I		
						LT	BN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
28.00	55.90	27.90	VOL	MG	Generally grey-green volcanics (andesite). Rubbly at points. Andesite volcanics have plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally associated with moderate bleaching, seemingly related to small fractures. Minor partial Py replacement of phenocrysts in fracture halo. Blebs of Py and Po disseminated throughout.							
						MD	GY	PO	CLY	2I	Py	0.5
						MD	GN		SIL	2I		
						LT	GN	MA	CHL	2I		
55.90	56.30	0.40	FLR	--	Med green volcanics grading(?) into folliated rock. Lithified fault material? Weak silica alteration.							
56.30	61.00	4.70	VOL	MG	Med grey intermediate volcanics, andesite. Small plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally moderately bleached, seemingly related to small fractures, with minor partial Py replacement of phenocrysts. Patchy weak to moderate bleaching around small fractures, minor sulphides in fractures (Py, Aspy(?)).							
61.00	62.40	1.40	FLR	--	Banded and warped breccia(?). Pervasive moderate silica alteration, weak clay alteration, and weak chlorite alteration. Clasts are andesite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
62.40	65.65	3.25	VOL	MG	Dark grey-green intermediate volcanics, andesite. Small plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Minor partial Py replacement of phenocrysts. Patchy weak to moderate bleaching around small fractures, carboante and minor sulphides in fractures (Py, Aspy(?)).							
65.65	69.70	4.05	BXA	--	Relithified breccia? Abundant clasts of banded rock with alternating light and dark layers ~2mm thick, siliceous, hematite staining, possibly gneiss? Other clasts appear to be volcanic, others siliceous and cherty. Warped and deformed.							
69.70	74.50	4.80	FLR	--	mottled volcanics with banded siliceous layers between, possibly relithified fault shear?							
74.50	79.00	4.50	FLR	--	mottled warped clasts(?) of volcanics with sheared, relithified, silicified chlorite altered shears between. Banded texture more apparent on top and bottom of interval. Middle mottled section almost looks like a pillow texture, but likely fault/shear related. 3cm interval of light buff grey folliated/banded/sheared silicified material at 75.8m. Bleached shear? Silicified Gouge?							
79.00	84.48	5.48	VOL	MG	dark green grey weakly banded/sheared volcanics, folliation still evident. 3cm bleached silicified banded interval at 83.5m. Pervasive weak to moderate silica alteration, pervasive weak to moderate chlorite alteration.							
84.48	87.00	2.52	VOL	MG	light green grey buff pervasively moderately silica and sericite altered medium grained intermediate volcanics. Folliation/shear fabric still evident. Within this interval are small strongly silica altered more recent, but still lithified shears at 55 deg tca. Texture looks like it was at one point strained and weakly sheared around more competent grains. Py and/or Aspy present disseminated and in fractures							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
87.00	91.15	4.15	BXA	--	Strongly silica altered breccia. Totally relithified. Clasts of volcanics with some clay alteration of relic minerals, but strongly overpinted with silica. Very fine grained py and/or aspy in silicified gouge. Sulphides also occurring in blebs and as fracture fill in small hairline fractures. Sulphides result in grey colouration of sulphides. Small veinlet/fractures containing pinkish carbonates (rhodochrosite?) and trace amounts of Py/gal/sphal							
91.15	101.30	10.15	VOL	MG	strongly silica and sericite altered volcanics. Patchy bands of alteration obliderate textures. Minor py and other sulphides infill in small fractures and crackles, sometimes with silica, someties with pinkish carbonates. Texture generally mottled and obliterated, but volcanic textures can be seen in some spots. Py occurs dissemianted in euhedral cubes and as very fine grained masses (possibly with other sulphides) in fractures.							
101.30	108.30	7.00	VOL	MG	Broken and fractured, pervasive moderate to strong silica-sericite altered intermediate volcanics. Common fine fractures with Py and/or Aspy infill. Minor euhedral disseminated Py throughout.							
108.30	110.30	2.00	FLR	--	Rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout.							
110.30	111.95	1.65	VOL	MG	Broken and fractured, pervasive moderate to strong silica-sericite altered intermediate volcanics. Common fine fractures with Py and/or Aspy infill. Minor euhedral disseminated Py throughout. 2-3cm vein with fine grained Py-Sphal-Gal +- Aspy/Sulposalts in Siderite-Rhodochrosite-ankerite vein. Halo around vein is very strongly silica altered. Light green grey colour.							
111.95	112.30	0.35	FLR	--	Rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout. 45 deg tca.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
112.30	119.50	7.20	FLR	--	Broken/fractured to rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout. Minor faulted veinlets of pinkish carbonate. Some resilicified shear textures, banding/folliation.							
119.50	120.00	0.50	VOL	MG	Broken/fractured, rubbly to gouge. Fine grained disseminated py common.							
120.00	123.00	3.00	FLR	--	Rubbly to gouge. Weak to moderately clay altered intermediate volcanics, pervasive weak sericite alteration. Minor euhedral disseminated Py throughout.							
123.00	134.30	11.30	VOL	MG	Broken/fractured, rubbly. Fine grained disseminated py common. Patchy sericite alteration near rubbly intervals. Fractures filled with calcite.							
						MD	GY	FR	CLY	1I		
						MD	GN	CR	CHL	1I	Py	0.1
									SER	1I		
134.30	150.00	15.70	VOL	MG	Fractured and brecciated (relithified) intermadiate volcanics. Weak clay alteration of feldspars. Weak hematite alteration in breccia matrix. Calcite infill in fractures. Minor calcite/ankerite supported brecciated intervals.							
150.00	159.20	9.20	QFP	FG	Feldspars altered to clay, locally fully dissolved leaving small pitted texture in rock. Minor clay altered gouge in sheared / fractured intervals at roughly 50 deg tca. Minor my disseminated in fractures, fractures often have small dark drey halo with very fine grained py. Strained and sheared in first meter of interval and between 155.5-156.5m.							
						LT	GY	FR	CLY	3I	Py	0.5
						LT	GN		SER	3I		
159.20	164.30	5.10	QFP	FG	Light to medium grey dyke material, similar to interval above, but greenish buff colour absent. Pervasive weak silica alteration. Rubbly fractures / shearing common throughout interval, trending 35-50 deg tca.							
164.30	166.65	2.35	VOL	MG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
166.65	169.00	2.35	VOL	MG	sheared and strained altered volcanics, fractured. Clay-sericite altered. Light green grey. Minor stringers wigth fine grained dark grey brown brassy py							
						LT	GN	ST	CLY	2I	Py	0.5
						LT	GY	CR	SER	3I		
								FR	HEM	1I		
169.00	169.60	0.60	VOL	MG	brecciated, cracked and strained generally unaltered volcanics, moderate fine grained Py(?) replacement. Unknown brassy metalic brown radiating mineral observed, distinctly different from Py. Photo included. Calcite infill in fractures.							
						MD	GY	FR			Py	2
						LT	GY	CR			Un	1
169.60	175.15	5.55	BXA	--	Mottled breccia, ductile shear? Mottled buff green with red brown hematite alteration. Patches of cherty silicified gouge(?) inbetween some clasts.							
						LT	GY	SH	HEM	2I		
						LT	GN	BX	SER	2I		
						LT	BN					
						LT	RD					
175.15	177.20	2.05	BXA	--	brecciated and warped volcanics. Patchy silica alteration and patchy chlorite alteration, primarily in sheared material between clasts.							
						MD	GN	SH	CHL	2I		
						MD	GY	BX	SIL	2I		
						MD	BN					
						LT	GY		SER	2I		
						LT	GN		HEM	2I		
						LT	BF					
						LT	RD					
177.20	182.50	5.30	BXA	--	sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.							
						MD	GN		CLY	2I		
						LT	GN	SH	SIL	2I		
						LT	GY	BN	SER	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
182.50	184.50	2.00	BXA	--	intervals of rubble/fault between sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.							
						LT	GY	RB	SIL	1I		
						LT	GN	BN	CLY	3I		
								SH	SER	2I		
184.50	188.00	3.50	BXA	--	sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.							
						LT	GN	SH	CLY	2I		
						LT	GY	BN	SER	2I		
188.00	207.50	19.50	BXA	--	brecciated and warped volcanics. Generally altered, mottled clay and sericite alteration. Patchy silica alteration and patchy chlorite alteration, primarily in sheared material between clasts. Trace hematite alteration. Banded texture at times, not so much the rock fabric, but alteration appears in bands. Possibly silica flooding or alteration halos around overprinted fractures.							
207.50	213.00	5.50	VOL	MG	Med green grey intermediate volcanics, fractured and brecciated and completely relithified. Clasts mainly volcanic, sometimes fine grained siliceous, up to 5cm across, generally ~1-2cm. Pervasive moderate chlorite-hematite alteration. Hematite alteration observed mainly in matrix and in mafic minerals. Patchy weak silica alteration and trace patchy sericite alteration.							
213.00	223.00	10.00	VOL	MG	Med green grey red intermediate volcanics, fractured and brecciated and almost completely relithified. Clasts mainly volcanic, sometimes bleached grey dyke materail or fine grained siliceous, up to 5cm across, generally ~1-2cm. Pervasive moderate chlorite-hematite alteration. Patchy weak silica alteration and trace patchy sericite alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
223.00	226.20	3.20	BXA	MG	Green grey brecciated material, clast supported. Bands of darker gouge with disseminated py, sometimes relithified, sometimes active fault materail. Clasts ser-sil altered. Minor Small py bearing stringers,							
226.20	226.75	0.55	BXA	--	mineralized breccia, occurring in bands, py. Fine to very fine grained. Otherwise similar to interval above.							
											Py	4
226.75	230.00	3.25	BXA	--	Pervaisvely moderate to stongly sericite altered, weakly clay altered, patchy silica altered, fine grained volcanics cut by abundant shears. Minor py in some of the shears in gougy infill, fine grained. Some small py infill veinlets cutting through, often fractured and offset by other fractures of varying orientations.							
											Py	0.5
230.00	231.70	1.70	QFP	FG	same as general lith							
231.70	239.20	7.50	VOL	MG	same as general lith							
239.20	243.35	4.15	VEN	MG	intermediate volcanics, patchy moderate hematite alteration and pervasive moderate chlorite alteration. Hem alteration is replacing mafic minerals, associated with broken zomes and calcite veining.							
243.35	248.10	4.75	VOL	MG	same as general ltih							
248.10	251.76	3.66	VOL	MG	broken rubble intermediate volcanics, weakly altered, minor py stringers throughout.							
251.76	254.15	2.39	VOL	MG	same as above, but common small sulphide stringers present, Py-sphal-gal-aspy							
254.15	259.30	5.15	VOL	MG	broken weakly altered intermediate volcanics small carbonate veinlets							
259.30	260.30	1.00	FLR	--	sericite clay altered, rubbly and faulted							
260.30	262.30	2.00	VOL	MG	fractured sometimes rubbly altered volcanics, minor py in some fractures and in rubble zones							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
262.30	263.00	0.70	VEN	--	Silica flooded and weakly veined with poorly developed vein walls. Py-Sphal-Aspy-Gal present occuring in bands/veins trending 30 deg tca, bur fractured and veins follow chaotic splays and other orientations in zone.							
											Gn	1
											Py	3
											Sp	3
											As	1
263.00	266.43	3.43	VOL	MG	same as other volcanic intervals, weak to moderate alteration							
266.43	266.70	0.27	VOL	--	broken volcanics with vein material and bands of sulphides, dominantly py with aspy and lesser sphal and gal.							
											As	2
											Sp	0.5
											Gn	0.5
											Py	3
266.70	269.80	3.10	VOL	MG	bloken weakly sericite clay altered volcanics							
269.80	270.40	0.60	VOL	--	broken but generally resilicified volcanics with bands of sulphides. 3-5cm band of massive Aspy and various other small bands / shears of sulphides (py-sphal-gal) trending at 65 deg tca. Zone somewhat rubbly textured and broken looking but compotent							
											As	5
											Py	2
											Sp	1
											Gn	1
270.40	276.90	6.50	VOL	MG	broken weakly altered volcanics, chaotic carbonate veining							
276.90	288.04	11.14	VOL	MG	broken relithified brecciated intermediate volcanics, carbonate clay infill in fractures, weak patchy hematite alteration. Some patchy epidote alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.40	1.40	CAS	OVB	--	casing, no recovery
1.40	6.10	4.70	OVB	OVB	--	overburden
6.10	24.51	18.41	VOL	VOL	MG	Broken grey-green volcanics with plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally moderately bleached, seemingly related to small fractures, with minor partial Py replacement of phenocrysts in fracture halo.
24.51	24.57	0.06	CLY	VOL	VF	light buff-brown clay seam. Appears out of place, very minor alteration halo in rock above, can picky off chunks with scratcher. Below is rubbly with occasional white-yellow-brown clay infilling seams.
24.57	28.00	3.43	VOL	VOL	MG	Rubbly grey-green volcanics with plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz. Patchy silica alteration, generally moderately bleached, seemingly associated with small fractures, and associated with minor partial Py replacement of phenocrysts. White-yellow clay minerals common on fractures and interstitial in rubble, generally pervaisvely oxidized and limonite stained.
28.00	55.90	27.90	VOL	VOL	MG	Generally grey-green volcanics (andesite). Rubbly at points. Andesite volcanics have plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally associated with moderate bleaching, seemingly related to small fractures. Minor partial Py replacement of phenocrysts in fracture halo. Blebs of Py and Po disseminated throughout.
55.90	56.30	0.40	FLR	VOL	--	Med green volcanics grading(?) into folliated rock. Lithified fault material? Weak silica alteration.
56.30	61.00	4.70	VOL	VOL	MG	Med grey intermediate volcanics, andesite. Small plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally moderately bleached, seemingly related to small fractures, with minor partial Py replacement of phenocrysts. Patchy weak to moderate bleaching around small fractures, minor sulphides in fractures (Py, Aspy(?)).
61.00	62.40	1.40	FLR	VOL	--	Banded and warped breccia(?). Pervasive moderate silica alteration, weak clay alteration, and weak chlorite alteration. Clasts are andesite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
62.40	65.65	3.25	VOL	VOL	MG	Dark grey-green intermediate volcanics, andesite. Small plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Minor partial Py replacement of phenocrysts. Patchy weak to moderate bleaching around small fractures, carboante and minor sulphides in fractures (Py, Aspy(?)).
65.65	69.70	4.05	BXA	VOL	--	Relithified breccia? Abundant clasts of banded rock with alternating light and dark layers ~2mm thick, siliceous, hematite staining, possibly gneiss? Other clasts appear to be volcanic, others siliceous and cherty. Warped and deformed.
69.70	74.50	4.80	FLR	VOL	--	mottled volcanics with banded siliceous layers between, possibly relithified fault shear?
74.50	79.00	4.50	FLR	VOL	--	mottled warped clasts(?) of volcanics with sheared, relithified, silicified chlorite altered shears between. Banded texture more apparent on top and bottom of interval. Middle mottled section almost looks like a pillow texture, but likely fault/shear related. 3cm interval of light buff grey folliated/banded/sheared silicified material at 75.8m. Bleached shear? Silicified Gouge?
79.00	84.48	5.48	VOL	VOL	MG	dark green grey weakly banded/sheared volcanics, folliation still evident. 3cm bleached silicified banded interval at 83.5m. Pervasive weak to moderate silica alteration, pervasive weak to moderate chlorite alteration.
84.48	87.00	2.52	VOL	VOLA	MG	light green grey buff pervasively moderately silica and sericite altered medium grained intermediate volcanics. Folliation/shear fabric still evident. Within this interval are small strongly silica altered more recent, but still lithified shears at 55 deg tca. Texture looks like it was at one point strained and weakly sheared around more competent grains. Py and/or Aspy present disseminated and in fractures
87.00	91.15	4.15	BXA	VOLA	--	Strongly silica altered breccia. Totally relithified. Clasts of volcanics with some clay alteration of relic minerals, but strongly overpinted with silica. Very fine grained py and/or aspy in silicified gouge. Sulphides also occurring in blebs and as fracture fill in small hairline fractures. Sulphides result in grey colouration of sulphides. Small veinlet/fractures containing pinkish carbonates (rhodochrosite?) and trace amounts of Py/gal/sphal
91.15	101.30	10.15	VOL	VOLA	MG	strongly silica and sericite altered volcanics. Patchy bands of alteration obliderate textures. Minor py and other sulphides infill in small fractures and crackles, sometimes with silica, someties with pinkish carbonates. Texture generally mottled and obliterated, but volcanic textures can be seen in some spots. Py occurs dissemianted in euhedral cubes and as very fine grained masses (possibly with other sulphides) in fractures.
101.30	108.30	7.00	VOL	FLTA	MG	Broken and fractured, pervasive moderate to strong silica-sericite altered intermediate volcanics. Common fine fractures with Py and/or Aspy infill. Minor euhedral disseminated Py throughout.
108.30	110.30	2.00	FLR	FLTA	--	Rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
110.30	111.95	1.65	VOL	FLTA	MG	Broken and fractured, pervasive moderate to strong silica-sericite altered intermediate volcanics. Common fine fractures with Py and/or Aspy infill. Minor euhedral disseminated Py throughout. 2-3cm vein with fine grained Py-Sphal-Gal +- Aspy/Sulposalts in Siderite-Rhodochrosite-ankerite vein. Halo around vein is very strongly silica altered. Light green grey colour.
111.95	112.30	0.35	FLR	FLTA	--	Rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout. 45 deg tca.
112.30	119.50	7.20	FLR	FLTA	--	Broken/fractured to rubbly to gouge. Pervasive moderate silica-sericite altered intermediate volcanics. Minor euhedral disseminated Py throughout. Minor faulted veinlets of pinkish carbonate. Some resilicified shear textures, banding/folliation.
119.50	120.00	0.50	VOL	FLT	MG	Broken/fractured, rubbly to gouge. Fine grained disseminated py common.
120.00	123.00	3.00	FLR	FLT	--	Rubbly to gouge. Weak to moderately clay altered intermediate volcanics, pervasive weak sericite alteration. Minor euhedral disseminated Py throughout.
123.00	134.30	11.30	VOL	FLT	MG	Broken/fractured, rubbly. Fine grained disseminated py common. Patchy sericite alteration near rubbly intervals. Fractures filled with calcite.
134.30	150.00	15.70	VOL	VOL	MG	Fractured and brecciated (relithified) intermadiate volcanics. Weak clay alteration of feldspars. Weak hematite alteration in breccia matrix. Calcite infill in fractures. Minor calcite/ankerite supported brecciated intervals.
150.00	159.20	9.20	QFP	DYK	FG	Feldspars altered to clay, locally fully dissolved leaving small pitted texture in rock. Minor clay altered gouge in sheared / fractured intervals at roughly 50 deg tca. Minor my disseminated in fractures, fractures often have small dark drey halo with very fine grained py. Strained and sheared in first meter of interval and between 155.5-156.5m.
159.20	164.30	5.10	QFP	DYK	FG	Light to medium grey dyke material, similar to interval above, but greenish buff colour absent. Pervasive weak silica alteration. Rubbly fractures / shearing common throughout interval, trending 35-50 deg tca.
164.30	166.65	2.35	VOL	VOL	MG	same as general lith
166.65	169.00	2.35	VOL	VOLA	MG	sheared and strained altered volcanics, fractured. Clay-sericite altered. Light green grey. Minor stringers wigth fine grained dark grey brown brassy py
169.00	169.60	0.60	VOL	VOLA	MG	brecciated, cracked and strained generally unaltered volcanics, moderate fine grained Py(?) replacement. Unknown brassy metalic brown radiating mineral observed, distinctly different from Py. Photo included. Calcite infill in fractures.
169.60	175.15	5.55	BXA	VOLA	--	Mottled breccia, ductile shear? Mottled buff green with red brown hematite alteration. Patches of cherty silicified gouge(?) inbetween some clasts.
175.15	177.20	2.05	BXA	VOLA	--	brecciated and warped volcanics. Patchy silica alteration and patchy chlorite alteration, primarily in sheared material between clasts.
177.20	182.50	5.30	BXA	VOLA	--	sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
182.50	184.50	2.00	BXA	VOLA	--	intervals of rubble/fault between sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.
184.50	188.00	3.50	BXA	VOLA	--	sheared, folliated, relithified light green grey altered volcanics. Pervasive sericite alteration patchy silica alteration weak clay alteration. Folliations at 40-60 deg tca.
188.00	207.50	19.50	BXA	VOLA	--	brecciated and warped volcanics. Generally altered, mottled clay and sericite alteration. Patchy silica alteration and patchy chlorite alteration, primarily in sheared material between clasts. Trace hematite alteration. Banded texture at times, not so much the rock fabric, but alteration appears in bands. Possibly silica flooding or alteration halos around overprinted fractures.
207.50	213.00	5.50	VOL	VOL	MG	Med green grey intermediate volcanics, fractured and brecciated and completely relithified. Clasts mainly volcanic, sometimes fine grained siliceous, up to 5cm across, generally ~1-2cm. Pervasive moderate chlorite-hematite alteration. Hematite alteration observed mainly in matrix and in mafic minerals. Patchy weak silica alteration and trace patchy sericite alteration.
213.00	223.00	10.00	VOL	VOLA	MG	Med green grey red intermediate volcanics, fractured and brecciated and almost completely relithified. Clasts mainly volcanic, sometimes bleached grey dyke materail or fine grained siliceous, up to 5cm across, generally ~1-2cm. Pervasive moderate chlorite-hematite alteration. Patchy weak silica alteration and trace patchy sericite alteration.
223.00	226.20	3.20	BXA	VOLA	MG	Green grey brecciated material, clast supported. Bands of darker gouge with disseminated py, sometimes relithified, sometimes active fault materail. Clasts ser-sil altered. Minor Small py bearing stringers,
226.20	226.75	0.55	BXA	VOLA	--	mineralized breccia, occurring in bands, py. Fine to very fine grained. Otherwise similar to interval above.
226.75	230.00	3.25	BXA	VOLA	--	Pervaisvely moderate to stongly sericite altered, weakly clay altered, patchy silica altered, fine grained volcanics cut by abundant shears. Minor py in some of the shears in gougy infill, fine grained. Some small py infill veinlets cutting through, often fractured and offset by other fractures of varying orientations.
230.00	231.70	1.70	QFP	DYK	FG	same as general lith
231.70	239.20	7.50	VOL	VOLA	MG	same as general lith
239.20	243.35	4.15	VEN	VOL	MG	intermediate volcanics, patchy moderate hematite alteration and pervasive moderate chlorite alteration. Hem alteration is replacing mafic minerals, associated with broken zomes and calcite veining.
243.35	248.10	4.75	VOL	VOLA	MG	same as general ltih
248.10	251.76	3.66	VOL	VOL	MG	broken rubble intermediate volcanics, weakly altered, minor py stringers throughout.
251.76	254.15	2.39	VOL	VOL	MG	same as above, but common small sulphide stringers present, Py-sphal-gal-aspy

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
254.15	259.30	5.15	VOL	VOL	MG	broken weakly altered intermediate volcanics small carbonate veinlets
259.30	260.30	1.00	FLR	VOL	--	sericite clay altered, rubbly and faulted
260.30	262.30	2.00	VOL	VOL	MG	fractured sometimes rubbly altered volcanics, minor py in some fractures and in rubble zones
262.30	263.00	0.70	VEN	VOL	--	Silica flooded and weakly veined with poorly developed vein walls. Py-Sphal-Aspy-Gal present occuring in bands/veins trending 30 deg tca, bur fractured and veins follow chaotic splays and other orientations in zone.
263.00	266.43	3.43	VOL	VOL	MG	same as other volcanic intervals, weak to moderate alteration
266.43	266.70	0.27	VOL	VOL	--	broken volcanics with vein material and bands of sulphides, dominantly py with aspy and lesser sphal and gal.
266.70	269.80	3.10	VOL	VOL	MG	bloken weakly sericite clay altered volcanics
269.80	270.40	0.60	VOL	VOL	--	broken but generally resilicified volcanics with bands of sulphides. 3-5cm band of massive Aspy and various other small bands / shears of sulphides (py-sphal-gal) trending at 65 deg tca. Zone somewhat rubbly textured and broken looking but compotent
270.40	276.90	6.50	VOL	VOL	MG	broken weakly altered volcanics, chaotic carbonate veining
276.90	288.04	11.14	VOL	VOL	MG	broken relithified brecciated intermediate volcanics, carbonate clay infill in fractures, weak patchy hematite alteration. Some patchy epidote alteration.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.40	1.40	CAS	--	casing							
1.40	6.10	4.70	OVB	--	Overburden. In overburden there are clasts of andesitic volcanics (trace disseminated py), grey siliceous dyke, and resilicified fault materail (recilisified gouge with small clasts, seemingly unmineralized)							
6.10	55.90	49.80	VOL	MG	Generally grey-green volcanics (andesite). Minor clay interval at ~24.5m. Rubbly at points. Andesite volcanics have plagioclase phenocrysts, generally weakly clay altered and/or rimmed by calcite, and dark green blebs of chlorite often rimmed with epidote, possibly altered relics of ferromagnesian minerals or amigdule infill, and minor blebs of quartz throughout. Patchy silica alteration, generally associated with moderate bleaching, seemingly related to small fractures. Minor partial Py replacement of phenocrysts in fracture halo. Blebs of Py and Po througout.							
						MD	GY	FR	CLY	2I	Py	0.5
						MD	GN		CHL	2I		
									SIL	2I		
55.90	84.48	28.58	FLR	--	Relithified fault in volcanic rocks? Semi-ductile shear? Top of interval has patchy folliated/banded texture that changes into warped bands to breccia containing clasts of banded rock cut by small secondary silicified brecciated fractures.							
						MD	GY	BN	SIL	3I		
						DK	GN	BX	CLY	1I		
						MD	GN					
84.48	101.30	16.82	FLR	--	Pervasively silica serite altered interval, brecciated/ fractured/ sheared/ crackled, but relithified. Py and/ or Aspy present throughout disseminated and as fracture infill, or occuring concentrated in discontinuous patches or bands.							
101.30	119.50	18.20	VOL	--	Broken and fractured and locally rubbly to gouge. Pervasive moderate to strong silica-sericite altered intermediate volcanics. Common fine fractures with Py and/or Aspy infill. Minor euhedral disseminated Py throughout.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
119.50	134.30	14.80	VOL	--	Broken/fractured, rubbly to gouge. Weak to moderately clay altered intermediate volcanics, pervasive weak sericite alteration. Interval between 119.5-120.0m with fine grained py common throughout the rock. Minor euhedral disseminated Py throughout.							
134.30	150.00	15.70	VOL	MG	Fractured and brecciated (relithified) intermadiate volcanics. Weak clay alteration of feldspars. Weak hematite alteration in breccia matrix. Calcite infill in fractures. Minor calcite/ankerite supported brecciated intervals.							
						MD	GY					
						MD	GN					
150.00	164.30	14.30	QFP	FG	Matrix supported fine grained light green grey buff qfp dyke. Small phenocrysts of quartz and feldspar, generally 1-2mm and no larger than 3mm. Weak pervasive clay-sericite alteration, overprinted by light grey silica alteration on both hanging wall and foot wall. Minor pitted texture from dissolved feldspars. Minor calcite in fractures.							
						LT	BF		SER	2I		
						LT	GY	MA	CLY	2I	Py	0.1
						LT	GN	PO	SIL	2I		
164.30	166.65	2.35	VOL	MG	med green grey intermediate volcanics, moderately fractured and infilled with calcite.							
						MD	GY					
						MD	GN	CR	CHL	1I		
166.65	207.50	40.85	FLR	MG	Brecciated to sheared, relithified, intermediate volcanics. Generally mottled moderate silica-sericite-smectite(?)-hematite alteration, patchy areas of lesser alteration. Locally sheared and folliated, few areas of fresh shear/fault fabric, generally fully relithified.							
								MO				
						LT	RD	BX	SIL	2I		
						LT	GN	CR	SER	2I		
						LT	GY	SH	CLY	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
207.50	213.00	5.50	FLR	MG	Med green grey intermediate volcanics, fractured and brecciated and completely relithified. Clasts mainly volcanic, sometimes fine grained siliceous, up to 5cm across, generally ~1-2cm. Pervasive moderate chlorite-hematite alteration. Hematite alteration observed mainly in matrix and in mafic minerals. Patchy weak silica alteration and trace patchy sericite alteration.							
						MD	GN	BX	CHL	3I		
						MD	RD		SIL	1I		
						MD	GY	MO	HEM	3I		
									SER	1I		
213.00	230.00	17.00	FLR	MG	Brecciated, mottled, pervasively sericite-hematite-silica altered intermediate volcanics and dyke material similar to that observed in interval below.							
						LT	GN	CR	SIL	2I		
						MD	GY	BX	SER	3I	Py	0.5
						MD	RD	MO	HEM	2I		
230.00	231.70	1.70	QFP	FG	fine grained qfp dyke small feld and qtz phenocrysts. Feld altered to clay, often washed out leaving fine vuggy texture. Dyke wall bound by 15cm of sand/gravelly gouge at to, at 70 deg tca. Low angle fractures thoughout dyke, rubbly to gougy infill. Other similarly infilled fractures at varying angles thoughout interval.							
						LT	GY	CR	CLY	3I		
								SH				
								MA				
231.70	239.20	7.50	FLR	MG	Brecciated, fractured relithified mottled green purple-red, pervasively sericite-hematite-silica altered intermediate volcanics. Small veinlets of hematite-calcite-quartz cutting through at ~70 deg tca.							
						MD	GY	BX	HEM	2I	Py	0.1
						LT	GN	CR	SER	3I		
						LT	RD	MO	CLY	2I		
								FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
239.20	243.35	4.15	VOL	MG	intermediate volcanics, patchy moderate hematite alteration and pervasive moderate chlorite alteration. Hem alteration is replacing mafic minerals, associated with broken zomes and calcite veining.							
						MD	GY	CR	CHL	2I		
						LT	GN	FR	HEM	3I		
						MD	PU		CLY	1I		
243.35	248.10	4.75	VOL	MG	Fractured faulted rubbly altered and bleached intermediate volcanics. Pervasive moderate clay and sericite alteration. Bands of shear with finely disseminated py. Small stringers of sulphides, mostly Py, but Sphal and Gal present as well. Shears at 60-75 deg tca							
						MD	GY	CR	CLY	2I	Py	0.5
						LT	GN	BN	SER	3I	Gn	0.5
								BX			Sp	0.5
248.10	288.04	39.94	VOL	MG	Broken moderately altered volcanics with some minor py stringers and some small veins with Py-Sphal-Gal-Aspy. Minor hematite alteration on some fracture surfaces. Weak clay alteration of feldspars and pervasive weak sericite alteration.							

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.40	1.40	0	0	0.00	0	--	--	--	Top of hole, no core recovered - casing.
1.40	1.52	0.12	0.12	100	0.00	0	--	--	--	Rubbled core top of hole
1.52	3.05	1.53	0.96	63	0.00	0	--	4H	2W	Rubbled core as well as sand.
3.05	4.57	1.52	1.39	91	0.14	9	--	4H	2W	Rubbled core and sand.
4.57	6.10	1.53	0.86	56	0.00	0	--	3H	3W	Rubbled core and sand.
6.10	7.62	1.52	1.11	73	0.00	0	--	4H	3W	Rubbled core
7.62	9.14	1.52	1.1	72	0.00	0	--	4H	3W	Rubbled and broken up core.
9.14	10.67	1.53	1.13	74	0.31	20	--	4H	3W	Rubbled and broken core.
10.67	12.19	1.52	1.27	84	0.52	34	--	4H	3W	Rubble and broken core
12.19	13.72	1.53	1.34	88	0.11	7	--	4H	2W	Rubbled core.
13.72	15.24	1.52	1.32	87	0.56	37	--	4H	2W	
15.24	16.76	1.52	1.05	69	0.00	0	--	4H	3W	Rubble core.
16.76	18.29	1.53	1.2	78	0.00	0	--	4H	3W	Rubbled core
18.29	19.81	1.52	1.12	74	0.00	0	--	4H	3W	Rubbled core
19.81	21.34	1.53	1.2	78	0.00	0	--	4H	3W	Rubbled core.
21.34	22.86	1.52	1.26	83	0.00	0	--	4H	3W	Rubbled core
22.86	24.34	1.48	1.48	100	0.10	7	--	4H	4W	Rubbled core with gouge/ rubbled core zone - 40 cm.
24.34	25.91	1.57	0.95	61	0.00	0	--	3H	3W	Rubbled core with a small zone of very hard clay with small clasts - 4 cm wide.
25.91	27.43	1.52	1.12	74	0.11	7	--	3H	4W	
27.43	28.96	1.53	1.44	94	0.26	17	--	4H	3W	Rubbled core at the start of the interval becoming more competent as we go down interval .
28.96	30.48	1.52	1.35	89	0.48	32	--	4H	2W	Small intervals of rubble
30.48	32.00	1.52	1.38	91	1.05	69	--	4H	2W	
32.00	33.53	1.53	1.25	82	0.54	35	--	4H	2W	Small rubble zones.
33.53	35.05	1.52	1.1	72	0.25	16	--	4H	2W	Fractured and rubbled throughout
35.05	36.58	1.53	1.27	83	0.99	65	--	4H	2W	No matching joints
36.58	38.10	1.52	1.4	92	1.12	74	--	4H	2W	Small zone with rubble and chips
38.10	39.62	1.52	1.22	80	0.38	25	--	4H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
39.62	41.15	1.53	1.39	91	0.94	61	--	4H	2W	
41.15	42.67	1.52	1.44	95	1.10	72	--	4H	2W	
42.67	44.20	1.53	1.12	73	0.25	16	--	4H	2W	
44.20	45.72	1.52	1.18	78	0.45	30	--	4H	2W	
45.72	47.24	1.52	1.49	98	1.32	87	--	4H	2W	
47.24	48.77	1.53	1.3	85	0.88	58	--	4H	2W	
48.77	50.29	1.52	1.43	94	0.79	52	--	4H	2W	
50.29	51.82	1.53	1.43	93	1.19	78	--	4H	2W	No matching joints
51.82	54.25	2.43	1.06	44	0.51	21	--	3H	2W	
54.25	57.30	3.05	2.15	70	0.58	19	--	4H	2W	
57.30	60.35	3.05	2.9	95	0.90	30	--	3H	2W	
60.35	63.40	3.05	2.71	89	1.74	57	--	4H	1W	
63.40	66.45	3.05	2.77	91	2.30	75	--	5H	2W	
66.45	67.36	0.91	0.71	78	0.12	13	--	3H	2W	
67.36	70.10	2.74	2.33	85	1.37	50	--	3H	2W	
70.10	71.63	1.53	1.22	80	0.00	0	--	4H	2W	Rubbled core
71.63	74.68	3.05	2.48	81	0.31	10	--	4H	2W	Rubbled core
74.68	76.81	2.13	1.99	93	1.37	64	--	4H	2W	Small sections of rubbled core.
76.81	79.25	2.44	2.06	84	1.17	48	--	4H	2W	Small section of rubble.
79.25	81.88	2.63	2.19	83	1.07	41	--	3H	2W	Small sections of rubble.
81.88	83.82	1.94	1.9	98	1.60	82	--	4H	1W	
83.82	86.87	3.05	2.87	94	1.65	54	--	4H	1W	
86.87	89.92	3.05	2.7	89	1.61	53	--	4H	1W	
89.92	92.96	3.04	2.68	88	1.74	57	--	4H	1W	
92.96	96.01	3.05	2.65	87	1.01	33	--	4H	1W	Rubbled core
96.01	99.06	3.05	2.8	92	2.05	67	--	4H	1W	No matching sets of joints
99.06	102.11	3.05	2.45	80	1.46	48	--	3H	1W	Rubbled core
102.11	105.16	3.05	2.07	68	0.35	11	--	4H	1W	Rubbled core
105.16	107.29	2.13	1.77	83	0.27	13	--	3H	1W	Rubbled core
107.29	111.70	4.41	2.23	51	0.00	0	--	3H	1W	Rubbled core as well large gouge zones.
111.70	113.69	1.99	1.22	61	0.00	0	--	4H	1W	Rubbled core with gouge zones.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
113.69	114.30	0.61	0.56	92	0.00	0	--	3H	1W	Rubbled core
114.30	115.82	1.52	1.2	79	0.00	0	--	4H	1W	Rubbled core with minor gouge.
115.82	117.35	1.53	0.92	60	0.00	0	--	2H	1W	Rubbled core with minor gouge.
117.35	118.87	1.52	1.34	88	0.21	14	--	4H	1W	Rubbled core
118.87	120.40	1.53	1.01	66	0.00	0	--	3H	1W	Rubbled core with minor gouge
120.40	121.92	1.52	0.81	53	0.00	0	--	3H	1W	Rubbled core with minor gouge.
121.92	124.97	3.05	1.9	62	0.48	16	--	3H	1W	Rubbled core with small amounts of gouge
124.97	126.49	1.52	0.88	58	0.12	8	--	3H	1W	Rubbled core
126.49	128.02	1.53	1.33	87	0.24	16	--	3H	1W	Rubbled core and gouge.
128.02	131.06	3.04	2.57	85	0.45	15	--	4H	1W	Rubbled core and gouge.
131.06	134.11	3.05	2.63	86	0.70	23	--	3H	1W	Rubbled core as well as some gouge
134.11	137.16	3.05	2.5	82	0.61	20	--	3H	1W	Rubbled core and minor gouge.
137.16	140.21	3.05	2.79	91	1.67	55	--	4H	1W	
140.21	143.26	3.05	2.55	84	1.45	48	--	4H	1W	Small rubbled sections of core.
143.26	146.30	3.04	2.82	93	1.61	53	--	4H	1W	
146.30	148.44	2.14	1.61	75	0.22	10	--	3H	1W	Rubbled/ fractured core
148.44	150.88	2.44	2.2	90	1.37	56	--	3H	1W	Rubble and fractured core with minor gouge.
150.88	153.92	3.04	2.31	76	0.85	28	--	4H	1W	Rubbled core with minor gouge and a breccia.
153.92	156.97	3.05	2.73	90	1.70	56	--	3H	1W	Rubbled core in small sections. Minor amounts of gouge.
156.97	159.41	2.44	2.03	83	1.09	45	--	3H	1W	Minor gouge occuring at the end of the interval.
159.41	162.46	3.05	2.82	92	0.43	14	--	4H	1W	Rubble and fractured coe with minor gouge.
162.46	164.90	2.44	2.13	87	0.80	33	--	3H	1W	Small zones of rubble
164.90	166.73	1.83	1.57	86	0.50	27	--	3H	1W	Small rubble zones
166.73	169.16	2.43	1.86	77	0.76	31	--	3H	1W	Small rubble zones.
169.16	172.21	3.05	2.66	87	1.25	41	--	3H	1W	Small rubble zones.
172.21	174.65	2.44	2.06	84	1.09	45	--	3H	1W	Small rubble zones
174.65	176.78	2.13	1.88	88	1.34	63	--	4H	1W	
176.78	179.22	2.44	1.87	77	0.67	27	--	3H	1W	Rubble zone

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
179.22	181.36	2.14	1.98	93	1.41	66	--	4H	1W	
181.36	184.10	2.74	2.46	90	0.79	29	--	3H	1W	
184.10	187.45	3.35	3.1	93	1.45	43	--	4H	1W	Gouge zone at start of interval.
187.45	190.50	3.05	2.77	91	2.13	70	--	4H	1W	
190.50	193.55	3.05	2.78	91	1.46	48	--	4H	1W	Small rubble zones
193.55	196.60	3.05	2.72	89	2.24	73	--	4H	1W	
196.60	199.64	3.04	2.71	89	1.21	40	--	3H	1W	
199.64	202.69	3.05	2.51	82	1.19	39	--	4H	1W	
202.69	205.74	3.05	2.94	96	2.11	69	--	4H	1W	
205.74	208.79	3.05	2.88	94	1.85	61	--	3H	1W	
208.79	211.84	3.05	2.94	96	2.41	79	--	4H	1W	Some chlorite and hematite on fracture surfaces
211.84	214.88	3.04	2.94	97	1.91	63	--	4H	1W	Joint surfaces have thin layer of grey green carbonate/ clay infill
214.88	217.93	3.05	2.78	91	1.83	60	--	3H	1W	Joint surfaces infill with hematite and clay
217.93	220.98	3.05	2.76	90	0.84	28	--	3H	1W	Small rubble zone
220.98	224.03	3.05	2.79	91	0.91	30	--	3H	1W	Brecciated
224.03	227.08	3.05	2.92	96	2.30	75	--	3H	1W	Minor pyrite throughout and on fracture/ joint surface. No matching joint set
227.08	230.12	3.04	2.85	94	1.58	52	--	3H	1W	
230.12	233.17	3.05	2.83	93	1.07	35	--	3H	1W	Half of joint is hemotite, rest is clay
233.17	236.22	3.05	2.95	97	1.26	41	--	4H	1W	2 mm wide quartz vein in joint
236.22	239.27	3.05	3	98	1.99	65	--	4H	1W	Gouge with black smeared pyrite.
239.27	241.40	2.13	1.76	83	0.12	6	--	3H	2W	
241.40	243.84	2.44	2.4	98	0.60	25	--	3H	2W	Lots of hemotite in run
243.84	246.89	3.05	2.6	85	0.69	23	--	3H	2W	Black smeared pyrite gouge in joints
246.89	249.94	3.05	2.2	72	0.33	11	--	4H	1W	
249.94	251.76	1.82	1.66	91	0.11	6	--	3H	1W	
251.76	253.90	2.14	1.68	79	0.00	0	--	4H	1W	
253.90	255.42	1.52	1.52	100	0.22	14	--	3H	2W	
255.42	257.56	2.14	1.88	88	0.56	26	--	4H	1W	
257.56	260.30	2.74	2.45	89	0.63	23	--	3H	3W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
260.30	263.04	2.74	2.49	91	0.64	23	--	3H	1W	
263.04	264.87	1.83	1.63	89	0.14	8	--	4H	1W	
264.87	266.70	1.83	1.65	90	0.38	21	--	4H	1W	
266.70	269.75	3.05	2.68	88	1.45	48	--	4H	2W	
269.75	272.80	3.05	2.51	82	0.72	24	--	4H	1W	
272.80	274.78	1.98	1.74	88	0.00	0	--	4H	2W	
274.78	277.06	2.28	1.95	86	0.00	0	--	3H	2W	
277.06	278.89	1.83	1.5	82	0.13	7	--	3H	2W	
278.89	281.03	2.14	1.89	88	0.00	0	--	3H	1W	
281.03	283.46	2.43	2.03	84	0.54	22	--	3H	1W	
283.46	286.51	3.05	2.61	86	0.14	5	--	3H	1W	
286.51	288.04	1.53	1.42	93	0.00	0	--	2H	1W	Rubble zone, very broken up and lots of calcite

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Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	0.828	OVB	
3	0.692	OVB	
4	0.507	OVB	
5	0.183	OVB	
6	0.256	OVB	
7	0.259	VOL	
8	0.282	VOL	
9	0.496	VOL	
10	0.249	VOL	
11	0.458	VOL	
12	0.728	VOL	
13	0.502	VOL	
14	0.567	VOL	
15	1.004	VOL	
16	0.283	VOL	
17	0.438	VOL	
18	0.312	VOL	
19	0.284	VOL	
20	0.181	VOL	
21	5.544	VOL	
22	0.47	VOL	
23	1.161	VOL	
24	0.352	VOL	
25	1.278	VOL	
26	0.534	VOL	
27	0.501	VOL	
28	0.477	VOL	
29	0.768	VOL	
30	0.231	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
31	0.631	VOL	
32	11.21	VOL	
33	1.582	VOL	
34	7.275	VOL	
35	4.443	VOL	
36	2.321	VOL	
37	0.666	VOL	
38	0.347	VOL	
39	1.64	VOL	
40	0.21	VOL	
41	1.505	VOL	
42	0.629	VOL	
43	0.312	VOL	
44	0.226	VOL	
45	8.144	VOL	
46	0.556	VOL	
47	1.225	VOL	
48	0.586	VOL	
49	0.623	VOL	
50	9.839	VOL	
51	0.561	VOL	
52	0.467	VOL	
53	0.428	VOL	
54	1.923	VOL	
55	10.81	VOL	
56	0.819	FLR	
57	1.879	FLR	
58	0.767	FLR	
59	1.848	FLR	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
60	1.55	FLR	
61	3.585	FLR	
62	3.667	FLR	
63	3.907	FLR	
64	29.63	FLR	
65	19.83	FLR	
66	8.41	FLR	
67	10.23	FLR	
68	28.98	FLR	
69	42.65	FLR	
70	23.76	FLR	
71	11.67	FLR	
72	10.55	FLR	
73	10.64	FLR	
74	3.371	FLR	
75	0.521	FLR	
76	1.514	FLR	
77	0.624	FLR	
78	0.175	FLR	
79	0.71	FLR	
80	0.542	FLR	
81	1.497	FLR	
82	3.593	FLR	
83	3.72	FLR	
84	2.147	FLR	
85	0.626	FLR	
86	0.344	FLR	
87	0.239	FLR	
88	0.055	FLR	
89	0.055	FLR	
90	0.108	FLR	
91	0.207	FLR	
92	0.163	FLR	
93	0.188	FLR	
94	0.161	FLR	
95	0.071	FLR	
96	0.159	FLR	
97	0.207	FLR	
98	0.196	FLR	
99	0.23	FLR	
100	0.559	FLR	
101	0.212	FLR	
102	0.32	VOL	
103	0.167	VOL	
104	0.378	VOL	
105	0.225	VOL	
106	0.141	VOL	
107	0.236	VOL	
108	0.449	VOL	
109	0.164	VOL	
110	0.247	VOL	
111	0.194	VOL	
112	0.3	VOL	
113	0.142	VOL	
114	0.154	VOL	
115	0.192	VOL	
116	0.346	VOL	
117	0.173	VOL	
118	0.101	VOL	
119	0.105	VOL	
120	0.588	VOL	
121	0.348	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
123	0.448	VOL	
124	5.072	VOL	
125	5.595	VOL	
126	21.9	VOL	
127	23.62	VOL	
128	0.638	VOL	
129	10.37	VOL	
130	22.8	VOL	
131	10.46	VOL	
132	0.63	VOL	
133	0.355	VOL	
134	0.767	VOL	
135	3.222	VOL	
136	2.689	VOL	
137	0.795	VOL	
138	0.859	VOL	
139	1.033	VOL	
140	0.536	VOL	
141	0.989	VOL	
142	9.827	VOL	
143	4.103	VOL	
144	1.383	VOL	
145	0.989	VOL	
146	12.46	VOL	
147	18.5	VOL	
148	7.348	VOL	
149	3.567	VOL	
150	0.193	QFP	
150	0.193	VOL	
151	0.083	QFP	
152	0.335	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
153	0.322	QFP	
154	0.253	QFP	
155	0.236	QFP	
156	0.224	QFP	
157	0.369	QFP	
158	0.321	QFP	
159	0.12	QFP	
160	0.319	QFP	
161	0.06	QFP	
162	0.487	QFP	
163	0.415	QFP	
164	0.318	QFP	
165	0.938	VOL	
166	3.01	VOL	
167	0.594	FLR	
168	0.981	FLR	
169	0.311	FLR	
170	0.558	FLR	
171	0.854	FLR	
172	0.417	FLR	
173	0.757	FLR	
174	0.264	FLR	
175	9.29	FLR	
176	6.727	FLR	
177	0.373	FLR	
178	0.167	FLR	
179	0.272	FLR	
180	0.286	FLR	
181	0.309	FLR	
182	0.167	FLR	
183	0.258	FLR	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
184	0.196	FLR	
185	0.201	FLR	
186	0.264	FLR	
187	0.214	FLR	
188	0.353	FLR	
189	0.625	FLR	
190	0.287	FLR	
191	0.565	FLR	
192	0.572	FLR	
193	0.432	FLR	
194	0.227	FLR	
195	0.074	FLR	
196	0.141	FLR	
197	0.142	FLR	
198	0.115	FLR	
199	0.248	FLR	
200	0.221	FLR	
201	0.164	FLR	
202	0.28	FLR	
203	0.243	FLR	
203	0.146	FLR	
204	0.027	FLR	
204	2.05	FLR	
205	0.338	FLR	
205	0.385	FLR	
206	0.583	FLR	
206	0.593	FLR	
207	0.455	FLR	
207	1.036	FLR	
208	0.96	FLR	
208	0.185	FLR	

Depth (m)	Magnetic Susceptibility	Unit	Comments
209	0.36	FLR	
210	0.59	FLR	
211	0.61	FLR	
212	0.485	FLR	
213	0.364	FLR	
213	0.364	FLR	
214	0.337	FLR	
215	0.342	FLR	
216	0.704	FLR	
217	0.331	FLR	
218	0.75	FLR	
219	0.201	FLR	
220	0.99	FLR	
221	0.455	FLR	
222	0.259	FLR	
223	0.4	FLR	
224	0.481	FLR	
225	0.252	FLR	
226	0.108	FLR	
227	0.23	FLR	
228	0.273	FLR	
229	0.356	FLR	
230	0.033	FLR	
230	0.033	QFP	
231	0.097	QFP	
232	0.102	FLR	
233	0.512	FLR	
234	0.234	FLR	
235	0.45	FLR	
236	0.486	FLR	
237	0.86	FLR	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
238	0.28	FLR	
239	0.441	FLR	
240	0.243	VOL	
241	0.454	VOL	
242	0.513	VOL	
243	0.305	VOL	
244	0.201	VOL	
245	0.16	VOL	
246	0.518	VOL	
247	0.213	VOL	
248	0.135	VOL	
249	0.519	VOL	
250	0.494	VOL	
251	0.204	VOL	
252	0.475	VOL	
253	0.183	VOL	
254	0.157	VOL	
255	0.527	VOL	
256	0.886	VOL	
257	12.59	VOL	
258	0.676	VOL	
259	0.048	VOL	
260	0.228	VOL	
261	0.261	VOL	
262	0.369	VOL	
263	0.109	VOL	
264	0.223	VOL	
265	0.267	VOL	
266	0.228	VOL	
267	0.114	VOL	
268	0.276	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
269	0.271	VOL	
270	0.54	VOL	
271	0.13	VOL	
272	0.417	VOL	
273	14.79	VOL	
274	12.02	VOL	
275	0.791	VOL	
276	3.468	VOL	
277	0.419	VOL	
278	5.461	VOL	
279	4.406	VOL	
280	9.353	VOL	
281	0.937	VOL	
282	18.06	VOL	
283	3.576	VOL	
284	21.73	VOL	
285	16.92	VOL	
286	28.2	VOL	
287	1.123	VOL	
288	1.562	VOL	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599829	☐	20-020	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599878	☐	20-021	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599870	☐	20-021	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594235	☐	20-011	High Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599836	☐	20-020	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599816	☐	20-019	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599802	☐	20-019	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599793	☐	20-019	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594248	☐	20-011	High Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599766	☐	20-018	Low grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599753	☐	20-018	Low grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599741	☐	20-017	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599852	☐	20-020	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599728	☐	20-017	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599710	☐	20-017	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594250	☐	20-011	High Grade	Klaza20 20-C	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599776	☐	20-018	Low grade		☑	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
10.00	11.50	1.50	VOL	1.50	100	W599695	☐	20-016	Low Grade		☐	☐	☐
10.00	11.50	1.50	VOL	1.50	100	W599696	☐	20-016	Low Grade		☐	☐	☑
11.50	13.00	1.50	VOL	1.50	100	W599697	☐	20-016	Low Grade		☐	☐	☐
13.00	14.50	1.50	VOL	1.47	98	W599698	☐	20-016	Low Grade		☐	☐	☐
13.00	14.50	1.50	VOL	1.47	98	W599699	☐	20-016	Low Grade		☐	☑	☐
14.50	16.00	1.50	VOL	1.40	93	W599700	☐	20-016	Low Grade		☐	☐	☐
16.00	17.50	1.50	VOL	1.50	100	W599701	☐	20-016	Low Grade		☐	☐	☐
17.50	19.00	1.50	VOL	1.50	100	W599702	☐	20-016	Low Grade		☐	☐	☐
19.00	20.50	1.50	VOL	1.50	100	W599703	☐	20-016	Low Grade		☐	☐	☐
20.50	22.00	1.50	VOL	1.50	100	W599704	☐	20-016	Low Grade		☐	☐	☐
22.00	23.50	1.50	VOL	1.50	100	W599705	☐	20-017	Low Grade		☐	☐	☐
23.50	25.00	1.50	VOL	1.50	100	W599706	☐	20-017	Low Grade		☐	☐	☐
25.00	26.50	1.50	VOL	1.37	91	W599707	☐	20-017	Low Grade		☐	☐	☐
26.50	28.00	1.50	VOL	1.50	100	W599708	☐	20-017	Low Grade		☐	☐	☐
28.00	29.50	1.50	VOL	1.49	99	W599709	☐	20-017	Low Grade		☐	☐	☐
29.50	30.25	0.75	VOL	0.72	96	W599711	☐	20-017	Low Grade		☐	☐	☐
30.25	31.00	0.75	VOL	0.75	100	W599712	☐	20-017	Low Grade		☐	☐	☐
30.25	31.00	0.75	VOL	0.74	99	W599713	☐	20-017	Low Grade		☐	☑	☐
31.00	32.50	1.50	VOL	1.50	100	W599714	☐	20-017	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.50	34.00	1.50	VOL	1.50	100	W599715	☐	20-017	Low Grade		☐	☐	☐
34.00	35.50	1.50	VOL	1.35	90	W599716	☐	20-017	Low Grade		☐	☐	☐
35.50	37.00	1.50	VOL	1.47	98	W599717	☐	20-017	Low Grade		☐	☐	☐
37.00	38.50	1.50	VOL	1.50	100	W599718	☐	20-017	Low Grade		☐	☐	☐
38.50	40.00	1.50	VOL	1.43	95	W599719	☐	20-017	Low Grade		☐	☐	☐
40.00	41.50	1.50	VOL	1.50	100	W599720	☐	20-017	Low Grade		☐	☐	☐
41.50	43.00	1.50	VOL	1.50	100	W599721	☐	20-017	Low Grade		☐	☐	☐
43.00	44.50	1.50	VOL	1.41	94	W599722	☐	20-017	Low Grade		☐	☐	☐
44.50	46.00	1.50	VOL	1.35	90	W599723	☐	20-017	Low Grade		☐	☐	☐
46.00	47.50	1.50	VOL	1.50	100	W599724	☐	20-017	Low Grade		☐	☐	☐
47.50	49.00	1.50	VOL	1.42	95	W599725	☐	20-017	Low Grade		☐	☐	☐
49.00	50.50	1.50	VOL	1.50	100	W599726	☐	20-017	Low Grade		☐	☐	☐
50.50	51.00	0.50	VOL	0.50	100	W599727	☐	20-017	Low Grade		☐	☐	☐
51.00	52.50	1.50	VOL	1.15	77	W599729	☐	20-017	Low Grade		☐	☐	☐
52.50	54.00	1.50	VOL	0.96	64	W599730	☐	20-017	Low Grade		☐	☐	☐
54.00	55.50	1.50	VOL	1.31	87	W599731	☐	20-017	Low Grade		☐	☐	☐
55.50	57.00	1.50	VOL	1.20	80	W599732	☐	20-017	Low Grade		☐	☐	☐
57.00	58.50	1.50	FLR	1.50	100	W599733	☐	20-017	Low Grade		☐	☐	☐
57.00	58.50	1.50	FLR	1.50	100	W599734	☐	20-017	Low Grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
58.50	60.00	1.50	FLR	1.00	67	W599735	☐	20-017	Low Grade		☐	☐	☐
60.00	61.00	1.00	FLR	1.00	100	W599736	☐	20-017	Low Grade		☐	☐	☐
61.00	62.50	1.50	FLR	1.50	100	W599737	☐	20-017	Low Grade		☐	☐	☐
62.50	64.00	1.50	FLR	1.50	100	W599738	☐	20-017	Low Grade		☐	☐	☐
64.00	65.50	1.50	FLR	1.50	100	W599739	☐	20-017	Low Grade		☐	☐	☐
65.50	67.00	1.50	FLR	1.50	100	W599740	☐	20-017	Low Grade		☐	☐	☐
67.00	68.50	1.50	FLR	1.49	99	W599742	☐	20-017	Low Grade		☐	☐	☐
68.50	70.00	1.50	FLR	1.50	100	W599743	☐	20-017	Low Grade		☐	☐	☐
70.00	71.50	1.50	FLR	1.50	100	W599744	☐	20-017	Low Grade		☐	☐	☐
71.50	73.00	1.50	FLR	1.50	100	W599745	☐	20-018	Low grade		☐	☐	☐
73.00	74.50	1.50	FLR	1.50	100	W599746	☐	20-018	Low grade		☐	☐	☐
74.50	76.00	1.50	FLR	1.50	100	W599747	☐	20-018	Low grade		☐	☐	☐
76.00	77.50	1.50	FLR	1.44	96	W599748	☐	20-018	Low grade		☐	☐	☐
77.50	79.00	1.50	FLR	1.38	92	W599749	☐	20-018	Low grade		☐	☐	☐
79.00	80.50	1.50	FLR	1.50	100	W599750	☐	20-018	Low grade		☐	☐	☐
80.50	82.00	1.50	FLR	1.42	95	W599751	☐	20-018	Low grade		☐	☐	☐
82.00	83.50	1.50	FLR	1.50	100	W599752	☐	20-018	Low grade		☐	☐	☐
83.50	85.00	1.50	FLR	1.50	100	W599754	☐	20-018	Low grade		☐	☐	☐
85.00	86.50	1.50	FLR	1.50	100	W599755	☐	20-018	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
86.50	88.00	1.50	FLR	1.50	100	W599756	☐	20-018	Low grade		☐	☐	☐
88.00	89.50	1.50	FLR	1.42	95	W599757	☐	20-018	Low grade		☐	☐	☐
88.00	89.50	1.50	FLR	1.42	95	W599758	☐	20-018	Low grade		☐	☑	☐
89.50	91.00	1.50	FLR	1.50	100	W599759	☐	20-018	Low grade		☐	☐	☐
91.00	92.50	1.50	FLR	1.50	100	W599760	☐	20-018	Low grade		☐	☐	☐
92.50	94.00	1.50	FLR	1.50	100	W599761	☐	20-018	Low grade		☐	☐	☐
94.00	95.50	1.50	FLR	1.50	100	W599762	☐	20-018	Low grade		☐	☐	☐
95.50	97.00	1.50	FLR	1.50	100	W599763	☐	20-018	Low grade		☐	☐	☐
97.00	98.50	1.50	FLR	1.45	97	W599764	☐	20-018	Low grade		☐	☐	☐
98.50	100.00	1.50	FLR	1.45	97	W599765	☐	20-018	Low grade		☐	☐	☐
100.00	101.50	1.50	FLR	1.50	100	W599767	☐	20-018	Low grade		☐	☐	☐
101.50	103.00	1.50	VOL	1.50	100	W599768	☐	20-018	Low grade		☐	☐	☐
103.00	104.50	1.50	VOL	1.50	100	W599769	☐	20-018	Low grade		☐	☐	☐
104.50	106.00	1.50	VOL	1.50	100	W599770	☐	20-018	Low grade		☐	☐	☐
106.00	107.00	1.00	VOL	0.93	93	W599771	☐	20-018	Low grade		☐	☐	☐
107.00	108.50	1.50	VOL	1.20	80	W599772	☐	20-018	Low grade		☐	☐	☐
108.50	110.00	1.50	VOL	1.07	71	W599773	☐	20-018	Low grade		☐	☐	☐
110.00	111.00	1.00	VOL	0.56	56	W599774	☐	20-018	Low grade		☐	☐	☐
111.00	111.50	0.50	VOL	0.42	84	W599775	☐	20-018	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
111.50	112.50	1.00	VOL	0.71	71	W599777	☐	20-018	Low grade		☐	☐	☐
112.50	114.00	1.50	VOL	1.50	100	W599778	☐	20-018	Low grade		☐	☐	☐
114.00	115.50	1.50	VOL	1.42	95	W599779	☐	20-018	Low grade		☐	☐	☐
115.50	117.00	1.50	VOL	1.11	74	W599780	☐	20-018	Low grade		☐	☐	☐
115.50	117.00	1.50	VOL	1.11	74	W599781	☐	20-018	Low grade		☐	☐	☑
117.00	118.50	1.50	VOL	1.50	100	W599782	☐	20-018	Low grade		☐	☐	☐
118.50	119.50	1.00	VOL	0.86	86	W599783	☐	20-018	Low grade		☐	☐	☐
119.50	120.10	0.60	VOL, VOL	0.45	75	W599784	☐	20-018	Low grade		☐	☐	☐
120.10	121.50	1.40	VOL	1.13	81	W599785	☐	20-019	Low Grade		☐	☐	☐
121.50	123.00	1.50	VOL	1.16	77	W599786	☐	20-019	Low Grade		☐	☐	☐
123.00	124.50	1.50	VOL	1.10	73	W599787	☐	20-019	Low Grade		☐	☐	☐
132.00	133.10	1.10	VOL	1.04	95	W599788	☐	20-019	Low Grade		☐	☐	☐
133.10	133.60	0.50	VOL	0.45	90	W599789	☐	20-019	Low Grade		☐	☐	☐
133.60	135.00	1.40	VOL	1.24	89	W599790	☐	20-019	Low Grade		☐	☐	☐
135.00	136.50	1.50	VOL	1.06	71	W599791	☐	20-019	Low Grade		☐	☐	☐
136.50	138.00	1.50	VOL	1.20	80	W599792	☐	20-019	Low Grade		☐	☐	☐
138.00	139.00	1.00	VOL	0.93	93	W599794	☐	20-019	Low Grade		☐	☐	☐
149.00	150.00	1.00	VOL	0.92	92	W599795	☐	20-019	Low Grade		☐	☐	☐
150.00	151.00	1.00	QFP, VOL	0.96	96	W599796	☐	20-019	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
151.00	152.00	1.00	QFP	0.72	72	W599797	☐	20-019	Low Grade		☐	☐	☐
152.00	153.50	1.50	QFP	1.15	77	W599798	☐	20-019	Low Grade		☐	☐	☐
159.28	160.75	1.47	QFP	1.22	83	W599799	☐	20-019	Low Grade		☐	☐	☐
160.75	162.00	1.25	QFP	1.11	89	W599800	☐	20-019	Low Grade		☐	☐	☐
162.00	163.50	1.50	QFP	1.28	85	W599801	☐	20-019	Low Grade		☐	☐	☐
163.50	165.00	1.50	QFP	1.27	85	W599803	☐	20-019	Low Grade		☐	☐	☐
165.00	166.50	1.50	VOL	1.31	87	W599804	☐	20-019	Low Grade		☐	☐	☐
166.50	168.00	1.50	VOL	1.12	75	W599805	☐	20-019	Low Grade		☐	☐	☐
168.00	169.50	1.50	FLR	1.16	77	W599806	☐	20-019	Low Grade		☐	☐	☐
169.50	171.00	1.50	FLR	1.35	90	W599807	☐	20-019	Low Grade		☐	☐	☐
171.00	172.50	1.50	FLR	1.35	90	W599808	☐	20-019	Low Grade		☐	☐	☐
172.50	174.00	1.50	FLR	1.21	81	W599809	☐	20-019	Low Grade		☐	☐	☐
172.50	174.00	1.50	FLR	1.21	81	W599810	☐	20-019	Low Grade		☐	☐	☑
174.00	175.50	1.50	FLR	1.29	86	W599811	☐	20-019	Low Grade		☐	☐	☐
175.50	177.00	1.50	FLR	1.34	89	W599812	☐	20-019	Low Grade		☐	☐	☐
177.00	178.50	1.50	FLR	1.16	77	W599813	☐	20-019	Low Grade		☐	☐	☐
178.50	180.00	1.50	FLR	1.09	73	W599814	☐	20-019	Low Grade		☐	☐	☐
180.00	181.50	1.50	FLR	1.30	87	W599815	☐	20-019	Low Grade		☐	☐	☐
181.50	183.00	1.50	FLR	1.43	95	W599817	☐	20-019	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
183.00	184.50	1.50	FLR	1.29	86	W599818	☐	20-019	Low Grade		☐	☐	☐
184.50	186.00	1.50	FLR	1.41	94	W599819	☐	20-019	Low Grade		☐	☐	☐
186.00	187.50	1.50	FLR	1.26	84	W599820	☐	20-019	Low Grade		☐	☐	☐
187.50	189.00	1.50	FLR	1.45	97	W599821	☐	20-019	Low Grade		☐	☐	☐
189.00	190.50	1.50	FLR	1.30	87	W599822	☐	20-019	Low Grade		☐	☐	☐
190.50	192.00	1.50	FLR	1.33	89	W599823	☐	20-019	Low Grade		☐	☐	☐
190.50	192.00	1.50	FLR	1.33	89	W599824	☐	20-019	Low Grade		☐	☑	☐
192.00	193.50	1.50	FLR	1.31	87	W599825	☐	20-020	Low Grade		☐	☐	☐
193.50	195.00	1.50	FLR	1.36	91	W599826	☐	20-020	Low Grade		☐	☐	☐
195.00	196.50	1.50	FLR	1.30	87	W599827	☐	20-020	Low Grade		☐	☐	☐
196.50	198.00	1.50	FLR	1.17	78	W599828	☐	20-020	Low Grade		☐	☐	☐
198.00	199.50	1.50	FLR	1.37	91	W599830	☐	20-020	Low Grade		☐	☐	☐
199.50	201.00	1.50	FLR	1.21	81	W599831	☐	20-020	Low Grade		☐	☐	☐
201.00	202.50	1.50	FLR	1.21	81	W599832	☐	20-020	Low Grade		☐	☐	☐
202.50	204.00	1.50	FLR	1.35	90	W599833	☐	20-020	Low Grade		☐	☐	☐
204.00	205.50	1.50	FLR	1.43	95	W599834	☐	20-020	Low Grade		☐	☐	☐
205.50	207.00	1.50	FLR	1.45	97	W599835	☐	20-020	Low Grade		☐	☐	☐
207.00	208.50	1.50	FLR	1.30	87	W599837	☐	20-020	Low Grade		☐	☐	☐
208.50	210.00	1.50	FLR	1.45	97	W599838	☐	20-020	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
210.00	211.50	1.50	FLR	1.48	99	W599839	☐	20-020	Low Grade		☐	☐	☐
211.50	213.00	1.50	FLR	1.45	97	W599840	☐	20-020	Low Grade		☐	☐	☐
213.00	214.50	1.50	FLR, FLR	1.43	95	W599841	☐	20-020	Low Grade		☐	☐	☐
214.50	216.00	1.50	FLR	1.45	97	W599842	☐	20-020	Low Grade		☐	☐	☐
216.00	217.50	1.50	FLR	1.49	99	W599843	☐	20-020	Low Grade		☐	☐	☐
216.00	217.50	1.50	FLR	1.49	99	W599844	☐	20-020	Low Grade		☐	☑	☐
217.50	219.00	1.50	FLR	1.46	97	W599845	☐	20-020	Low Grade		☐	☐	☐
219.00	220.50	1.50	FLR	1.35	90	W599846	☐	20-020	Low Grade		☐	☐	☐
220.50	222.00	1.50	FLR	1.33	89	W599847	☐	20-020	Low Grade		☐	☐	☐
222.00	223.50	1.50	FLR	1.38	92	W599848	☐	20-020	Low Grade		☐	☐	☐
223.50	225.00	1.50	FLR	1.44	96	W599849	☐	20-020	Low Grade		☐	☐	☐
225.00	226.00	1.00	FLR	0.99	99	W599850	☐	20-020	Low Grade		☐	☐	☐
226.00	227.00	1.00	FLR	0.93	93	W594232	☐	20-011	High Grade		☐	☐	☐
227.00	227.50	0.50	FLR	0.49	98	W594233	☐	20-011	High Grade		☐	☐	☐
227.50	229.00	1.50	FLR	1.38	92	W594234	☐	20-011	High Grade		☐	☐	☐
229.00	230.50	1.50	FLR	1.35	90	W594236	☐	20-011	High Grade		☐	☐	☐
230.50	232.00	1.50	QFP	1.38	92	W599851	☐	20-020	Low Grade		☐	☐	☐
232.00	233.50	1.50	FLR	1.31	87	W599853	☐	20-020	Low Grade		☐	☐	☐
233.50	235.00	1.50	FLR	1.43	95	W599854	☐	20-020	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
235.00	236.50	1.50	FLR	1.43	95	W599855	☐	20-020	Low Grade		☐	☐	☐
236.50	238.00	1.50	FLR	1.47	98	W599856	☐	20-020	Low Grade		☐	☐	☐
236.50	238.00	1.50	FLR	1.47	98	W599857	☐	20-020	Low Grade		☐	☐	☑
238.00	239.50	1.50	FLR	1.38	92	W599858	☐	20-020	Low Grade		☐	☐	☐
239.50	241.00	1.50	VOL	1.22	81	W599859	☐	20-020	Low Grade		☐	☐	☐
241.00	242.00	1.00	VOL	0.97	97	W599860	☐	20-020	Low Grade		☐	☐	☐
242.00	242.50	0.50	VOL	0.47	94	W599861	☐	20-020	Low Grade		☐	☐	☐
242.50	243.33	0.83	VOL	0.80	96	W599862	☐	20-020	Low Grade		☐	☐	☐
243.33	244.85	1.52	VOL	1.38	91	W599863	☐	20-020	Low Grade		☐	☐	☐
244.85	246.00	1.15	VOL	0.95	83	W599864	☐	20-020	Low Grade		☐	☐	☐
246.00	247.50	1.50	VOL	1.23	82	W599865	☐	20-021	Low Grade		☐	☐	☐
247.50	249.00	1.50	VOL	1.39	93	W599866	☐	20-021	Low Grade		☐	☐	☐
249.00	250.50	1.50	VOL	1.40	93	W599867	☐	20-021	Low Grade		☐	☐	☐
250.50	251.65	1.15	VOL	1.15	100	W599868	☐	20-021	Low Grade		☐	☐	☐
251.65	253.00	1.35	VOL	1.15	85	W594237	☐	20-011	High Grade		☐	☐	☐
253.00	254.50	1.50	VOL	1.25	83	W594238	☐	20-011	High Grade		☐	☐	☐
254.50	256.00	1.50	VOL	1.41	94	W599869	☐	20-021	Low Grade		☐	☐	☐
256.00	257.50	1.50	VOL	1.46	97	W599871	☐	20-021	Low Grade		☐	☐	☐
257.50	258.20	0.70	VOL	0.62	89	W599872	☐	20-021	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
258.20	259.30	1.10	VOL	0.96	87	W599873	☐	20-021	Low Grade		☐	☐	☐
259.30	260.30	1.00	VOL	0.98	98	W594239	☐	20-011	High Grade		☐	☐	☐
260.30	261.42	1.12	VOL	1.07	96	W599874	☐	20-021	Low Grade		☐	☐	☐
261.42	262.20	0.78	VOL	0.71	91	W594240	☐	20-011	High Grade		☐	☐	☐
262.20	263.20	1.00	VOL	0.92	92	W594241	☐	20-011	High Grade		☐	☐	☐
263.20	264.70	1.50	VOL	1.19	79	W594242	☐	20-011	High Grade		☐	☐	☐
264.70	266.30	1.60	VOL	1.48	93	W594243	☐	20-011	High Grade		☐	☐	☐
266.30	266.80	0.50	VOL	0.50	100	W594244	☐	20-011	High Grade		☐	☐	☐
266.80	267.75	0.95	VOL	0.95	100	W599875	☐	20-021	Low Grade		☐	☐	☐
267.75	269.00	1.25	VOL	1.11	89	W599876	☐	20-021	Low Grade		☐	☐	☐
269.00	269.75	0.75	VOL	0.74	99	W594245	☐	20-011	High Grade		☐	☐	☐
269.00	269.75	0.75	VOL	0.74	99	W594246	☐	20-011	High Grade		☐	☑	☐
269.75	270.55	0.80	VOL	0.78	98	W594247	☐	20-011	High Grade		☐	☐	☐
270.55	271.20	0.65	VOL	0.45	69	W594249	☐	20-011	High Grade		☐	☐	☐
271.20	272.60	1.40	VOL	1.22	87	W599877	☐	20-021	Low Grade		☐	☐	☐
272.60	274.00	1.40	VOL	1.40	100	W599879	☐	20-021	Low Grade		☐	☐	☐
274.00	275.50	1.50	VOL	1.41	94	W599880	☐	20-021	Low Grade		☐	☐	☐
275.50	276.80	1.30	VOL	1.01	78	W599881	☐	20-021	Low Grade		☐	☐	☐
276.80	277.20	0.40	VOL	0.36	90	B700501	☐	20-011	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
277.20	278.50	1.30	VOL	1.01	78	W599882	☐	20-021	Low Grade		☐	☐	☐
278.50	280.00	1.50	VOL	1.28	85	W599883	☐	20-021	Low Grade		☐	☐	☐
280.00	281.50	1.50	VOL	1.33	89	W599884	☐	20-021	Low Grade		☐	☐	☐
281.50	283.00	1.50	VOL	1.42	95	W599885	☐	20-021	Low Grade		☐	☐	☐
283.00	284.50	1.50	VOL	1.45	97	W599886	☐	20-021	Low Grade		☐	☐	☐
283.00	284.50	1.50	VOL	1.45	97	W599887	☐	20-021	Low Grade		☐	☐	☑
284.50	286.00	1.50	VOL	1.39	93	W599888	☐	20-021	Low Grade		☐	☐	☐
286.00	287.00	1.00	VOL	0.88	88	W599889	☐	20-021	Low Grade		☐	☐	☐
287.00	288.04	1.04	VOL	0.93	89	W599890	☐	20-021	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	W594235	0.00	0.00	2.86	1030	☐	☐	☐	☑ Klaza2020-B	klaza b
20-011	W594248	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-011	W594250	0.00	0.00	12.00	20	☐	☐	☐	☑ Klaza2020-C	klaza c
20-017	W599710	0.00	0.00	0.63	290	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-017	W599728	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-017	W599741	0.00	0.00	2.81	100	☐	☐	☐	☑ Klaza2020-B	klaza b
20-018	W599753	0.00	0.00	0.61	180	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-018	W599766	0.00	0.00	2.93	540	☐	☐	☐	☑ Klaza2020-B	klaza b
20-018	W599776	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-019	W599793	0.00	0.00	0.60	250	☐	☐	☐	☑ Klaza2020-A	
20-019	W599802	0.00	0.00	2.93	500	☐	☐	☐	☑ Klaza2020-B	
20-019	W599816	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-020	W599829	0.00	0.00	0.66	170	☐	☐	☐	☑ Klaza2020-A	
20-020	W599836	0.00	0.00	2.87	60	☐	☐	☐	☑ Klaza2020-B	klaza b

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-020	W599852	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-021	W599870	0.00	0.00	0.64	220	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-021	W599878	0.00	0.00	3.04	460	☐	☐	☐	☑ Klaza2020-B	klaza b
20-016	W599695	10.00	11.50	0.00	940	☐	☐	☐	☐	
20-016	W599696	10.00	11.50	0.01	920	☐	☑	☐	☐	coarse dup
20-016	W599697	11.50	13.00	0.01	1160	☐	☐	☐	☐	
20-016	W599698	13.00	14.50	0.00	1160	☐	☐	☐	☐	
20-016	W599699	13.00	14.50	0.00	1160	☑	☐	☐	☐	quarter dup
20-016	W599700	14.50	16.00	0.00	1080	☐	☐	☐	☐	
20-016	W599701	16.00	17.50	0.00	1060	☐	☐	☐	☐	
20-016	W599702	17.50	19.00	0.00	1190	☐	☐	☐	☐	
20-016	W599703	19.00	20.50	0.00	1240	☐	☐	☐	☐	
20-016	W599704	20.50	22.00	0.00	1140	☐	☐	☐	☐	
20-017	W599705	22.00	23.50	0.00	1030	☐	☐	☐	☐	
20-017	W599706	23.50	25.00	0.00	1050	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-017	W599707	25.00	26.50	0.00	1160	☐	☐	☐	☐	
20-017	W599708	26.50	28.00	0.00	1160	☐	☐	☐	☐	
20-017	W599709	28.00	29.50	0.00	1050	☐	☐	☐	☐	
20-017	W599711	29.50	30.25	0.00	1160	☐	☐	☐	☐	
20-017	W599712	30.25	31.00	0.00	1250	☐	☐	☐	☐	
20-017	W599713	30.25	31.00	0.00	1210	☑	☐	☐	☐	quarter dup
20-017	W599714	31.00	32.50	0.00	1180	☐	☐	☐	☐	
20-017	W599715	32.50	34.00	0.00	1240	☐	☐	☐	☐	
20-017	W599716	34.00	35.50	0.01	1190	☐	☐	☐	☐	
20-017	W599717	35.50	37.00	0.00	1220	☐	☐	☐	☐	
20-017	W599718	37.00	38.50	0.00	1150	☐	☐	☐	☐	
20-017	W599719	38.50	40.00	0.00	1270	☐	☐	☐	☐	
20-017	W599720	40.00	41.50	0.00	1270	☐	☐	☐	☐	
20-017	W599721	41.50	43.00	0.00	1170	☐	☐	☐	☐	
20-017	W599722	43.00	44.50	0.01	1140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-017	W599723	44.50	46.00	0.00	1470	☐	☐	☐	☐	
20-017	W599724	46.00	47.50	0.01	1210	☐	☐	☐	☐	
20-017	W599725	47.50	49.00	0.00	1200	☐	☐	☐	☐	
20-017	W599726	49.00	50.50	0.00	1210	☐	☐	☐	☐	
20-017	W599727	50.50	51.00	0.00	1240	☐	☐	☐	☐	
20-017	W599729	51.00	52.50	0.00	1140	☐	☐	☐	☐	
20-017	W599730	52.50	54.00	0.00	1100	☐	☐	☐	☐	
20-017	W599731	54.00	55.50	0.00	1160	☐	☐	☐	☐	
20-017	W599732	55.50	57.00	0.00	1330	☐	☐	☐	☐	
20-017	W599733	57.00	58.50	0.00	1250	☐	☐	☐	☐	
20-017	W599734	57.00	58.50	0.00	1270	☐	☑	☐	☐	coarse duplicate
20-017	W599735	58.50	60.00	0.00	1300	☐	☐	☐	☐	
20-017	W599736	60.00	61.00	0.00	1260	☐	☐	☐	☐	
20-017	W599737	61.00	62.50	0.00	1390	☐	☐	☐	☐	
20-017	W599738	62.50	64.00	0.00	1350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-017	W599739	64.00	65.50	0.00	1130	☐	☐	☐	☐	
20-017	W599740	65.50	67.00	0.00	1380	☐	☐	☐	☐	
20-017	W599742	67.00	68.50	0.00	1420	☐	☐	☐	☐	
20-017	W599743	68.50	70.00	0.01	1340	☐	☐	☐	☐	
20-017	W599744	70.00	71.50	0.00	1510	☐	☐	☐	☐	
20-018	W599745	71.50	73.00	0.00	1560	☐	☐	☐	☐	
20-018	W599746	73.00	74.50	0.00	1380	☐	☐	☐	☐	
20-018	W599747	74.50	76.00	0.00	1230	☐	☐	☐	☐	
20-018	W599748	76.00	77.50	0.00	1230	☐	☐	☐	☐	
20-018	W599749	77.50	79.00	0.00	1050	☐	☐	☐	☐	
20-018	W599750	79.00	80.50	0.00	950	☐	☐	☐	☐	
20-018	W599751	80.50	82.00	0.00	1160	☐	☐	☐	☐	
20-018	W599752	82.00	83.50	0.00	1260	☐	☐	☐	☐	
20-018	W599754	83.50	85.00	0.01	1070	☐	☐	☐	☐	
20-018	W599755	85.00	86.50	0.01	1280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-018	W599756	86.50	88.00	0.01	670	☐	☐	☐	☐	
20-018	W599757	88.00	89.50	0.02	650	☐	☐	☐	☐	
20-018	W599758	88.00	89.50	0.02	620	☑	☐	☐	☐	quarter dup
20-018	W599759	89.50	91.00	0.01	700	☐	☐	☐	☐	
20-018	W599760	91.00	92.50	0.01	1000	☐	☐	☐	☐	
20-018	W599761	92.50	94.00	0.01	840	☐	☐	☐	☐	
20-018	W599762	94.00	95.50	0.03	630	☐	☐	☐	☐	
20-018	W599763	95.50	97.00	0.02	850	☐	☐	☐	☐	
20-018	W599764	97.00	98.50	0.05	560	☐	☐	☐	☐	
20-018	W599765	98.50	100.00	0.01	580	☐	☐	☐	☐	
20-018	W599767	100.00	101.50	0.03	580	☐	☐	☐	☐	
20-018	W599768	101.50	103.00	0.03	580	☐	☐	☐	☐	
20-018	W599769	103.00	104.50	0.03	570	☐	☐	☐	☐	
20-018	W599770	104.50	106.00	0.10	510	☐	☐	☐	☐	
20-018	W599771	106.00	107.00	0.31	570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-018	W599772	107.00	108.50	0.89	580	☐	☐	☐	☐	
20-018	W599773	108.50	110.00	0.04	1520	☐	☐	☐	☐	
20-018	W599774	110.00	111.00	0.02	1010	☐	☐	☐	☐	
20-018	W599775	111.00	111.50	0.38	480	☐	☐	☐	☐	
20-018	W599777	111.50	112.50	0.12	480	☐	☐	☐	☐	
20-018	W599778	112.50	114.00	0.59	480	☐	☐	☐	☐	
20-018	W599779	114.00	115.50	0.04	500	☐	☐	☐	☐	
20-018	W599780	115.50	117.00	0.04	560	☐	☐	☐	☐	
20-018	W599781	115.50	117.00	0.04	540	☐	☑	☐	☐	coarse duplicate
20-018	W599782	117.00	118.50	0.03	590	☐	☐	☐	☐	
20-018	W599783	118.50	119.50	0.03	930	☐	☐	☐	☐	
20-018	W599784	119.50	120.10	0.04	120	☐	☐	☐	☐	
20-019	W599785	120.10	121.50	0.00	770	☐	☐	☐	☐	
20-019	W599786	121.50	123.00	0.02	800	☐	☐	☐	☐	
20-019	W599787	123.00	124.50	0.01	920	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-019	W599788	132.00	133.10	0.00	720	☐	☐	☐	☐	
20-019	W599789	133.10	133.60	0.02	750	☐	☐	☐	☐	
20-019	W599790	133.60	135.00	0.00	990	☐	☐	☐	☐	
20-019	W599791	135.00	136.50	0.00	1630	☐	☐	☐	☐	
20-019	W599792	136.50	138.00	0.00	1680	☐	☐	☐	☐	
20-019	W599794	138.00	139.00	0.01	1560	☐	☐	☐	☐	
20-019	W599795	149.00	150.00	0.00	940	☐	☐	☐	☐	
20-019	W599796	150.00	151.00	0.00	480	☐	☐	☐	☐	
20-019	W599797	151.00	152.00	0.01	680	☐	☐	☐	☐	
20-019	W599798	152.00	153.50	0.00	910	☐	☐	☐	☐	
20-019	W599799	159.28	160.75	0.01	330	☐	☐	☐	☐	
20-019	W599800	160.75	162.00	0.00	310	☐	☐	☐	☐	
20-019	W599801	162.00	163.50	0.00	220	☐	☐	☐	☐	
20-019	W599803	163.50	165.00	0.01	570	☐	☐	☐	☐	
20-019	W599804	165.00	166.50	0.00	1060	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-019	W599805	166.50	168.00	0.00	730	☐	☐	☐	☐	
20-019	W599806	168.00	169.50	0.02	650	☐	☐	☐	☐	
20-019	W599807	169.50	171.00	0.00	560	☐	☐	☐	☐	
20-019	W599808	171.00	172.50	0.00	660	☐	☐	☐	☐	
20-019	W599809	172.50	174.00	0.00	920	☐	☐	☐	☐	
20-019	W599810	172.50	174.00	0.00	900	☐	☑	☐	☐	
20-019	W599811	174.00	175.50	0.00	1140	☐	☐	☐	☐	
20-019	W599812	175.50	177.00	0.00	1510	☐	☐	☐	☐	
20-019	W599813	177.00	178.50	0.00	920	☐	☐	☐	☐	
20-019	W599814	178.50	180.00	0.00	690	☐	☐	☐	☐	
20-019	W599815	180.00	181.50	0.00	1200	☐	☐	☐	☐	
20-019	W599817	181.50	183.00	0.00	1510	☐	☐	☐	☐	
20-019	W599818	183.00	184.50	0.00	1240	☐	☐	☐	☐	
20-019	W599819	184.50	186.00	0.00	1210	☐	☐	☐	☐	
20-019	W599820	186.00	187.50	0.00	1380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-019	W599821	187.50	189.00	0.00	720	☐	☐	☐	☐	
20-019	W599822	189.00	190.50	0.00	1630	☐	☐	☐	☐	
20-019	W599823	190.50	192.00	0.00	1610	☐	☐	☐	☐	
20-019	W599824	190.50	192.00	0.00	1270	☑	☐	☐	☐	
20-020	W599825	192.00	193.50	0.00	1270	☐	☐	☐	☐	
20-020	W599826	193.50	195.00	0.00	910	☐	☐	☐	☐	
20-020	W599827	195.00	196.50	0.00	1270	☐	☐	☐	☐	
20-020	W599828	196.50	198.00	0.00	850	☐	☐	☐	☐	
20-020	W599830	198.00	199.50	0.00	750	☐	☐	☐	☐	
20-020	W599831	199.50	201.00	0.00	740	☐	☐	☐	☐	
20-020	W599832	201.00	202.50	0.00	670	☐	☐	☐	☐	
20-020	W599833	202.50	204.00	0.00	690	☐	☐	☐	☐	
20-020	W599834	204.00	205.50	0.00	840	☐	☐	☐	☐	
20-020	W599835	205.50	207.00	0.00	1750	☐	☐	☐	☐	
20-020	W599837	207.00	208.50	0.00	1470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-020	W599838	208.50	210.00	0.00	2120	☐	☐	☐	☐	
20-020	W599839	210.00	211.50	0.00	2680	☐	☐	☐	☐	
20-020	W599840	211.50	213.00	0.00	1610	☐	☐	☐	☐	
20-020	W599841	213.00	214.50	0.00	800	☐	☐	☐	☐	
20-020	W599842	214.50	216.00	0.00	830	☐	☐	☐	☐	
20-020	W599843	216.00	217.50	0.00	1050	☐	☐	☐	☐	
20-020	W599844	216.00	217.50	0.00	1170	☑	☐	☐	☐	quarter dup
20-020	W599845	217.50	219.00	0.00	790	☐	☐	☐	☐	
20-020	W599846	219.00	220.50	0.00	1150	☐	☐	☐	☐	
20-020	W599847	220.50	222.00	0.00	1360	☐	☐	☐	☐	
20-020	W599848	222.00	223.50	0.00	1350	☐	☐	☐	☐	
20-020	W599849	223.50	225.00	0.00	1150	☐	☐	☐	☐	
20-020	W599850	225.00	226.00	0.00	950	☐	☐	☐	☐	
20-011	W594232	226.00	227.00	0.17	100	☐	☐	☐	☐	
20-011	W594233	227.00	227.50	0.08	310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	W594234	227.50	229.00	0.00	4280	☐	☐	☐	☐	
20-011	W594236	229.00	230.50	0.04	620	☐	☐	☐	☐	
20-020	W599851	230.50	232.00	0.01	470	☐	☐	☐	☐	
20-020	W599853	232.00	233.50	0.13	880	☐	☐	☐	☐	
20-020	W599854	233.50	235.00	0.00	860	☐	☐	☐	☐	
20-020	W599855	235.00	236.50	0.00	1000	☐	☐	☐	☐	
20-020	W599856	236.50	238.00	0.08	810	☐	☐	☐	☐	
20-020	W599857	236.50	238.00	0.08	820	☐	☑	☐	☐	coarse dup
20-020	W599858	238.00	239.50	0.01	690	☐	☐	☐	☐	
20-020	W599859	239.50	241.00	0.01	980	☐	☐	☐	☐	
20-020	W599860	241.00	242.00	0.01	760	☐	☐	☐	☐	
20-020	W599861	242.00	242.50	0.01	730	☐	☐	☐	☐	
20-020	W599862	242.50	243.33	0.02	710	☐	☐	☐	☐	
20-020	W599863	243.33	244.85	0.08	550	☐	☐	☐	☐	
20-020	W599864	244.85	246.00	0.03	650	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-021	W599865	246.00	247.50	0.37	830	☐	☐	☐	☐	
20-021	W599866	247.50	249.00	0.09	460	☐	☐	☐	☐	
20-021	W599867	249.00	250.50	0.01	1050	☐	☐	☐	☐	
20-021	W599868	250.50	251.65	0.02	1090	☐	☐	☐	☐	
20-011	W594237	251.65	253.00	0.03	940	☐	☐	☐	☐	
20-011	W594238	253.00	254.50	0.11	160	☐	☐	☐	☐	
20-021	W599869	254.50	256.00	0.01	820	☐	☐	☐	☐	
20-021	W599871	256.00	257.50	0.00	720	☐	☐	☐	☐	
20-021	W599872	257.50	258.20	0.00	530	☐	☐	☐	☐	
20-021	W599873	258.20	259.30	0.03	740	☐	☐	☐	☐	
20-011	W594239	259.30	260.30	0.06	630	☐	☐	☐	☐	
20-021	W599874	260.30	261.42	0.05	240	☐	☐	☐	☐	
20-011	W594240	261.42	262.20	0.06	740	☐	☐	☐	☐	
20-011	W594241	262.20	263.20	0.23	160	☐	☐	☐	☐	
20-011	W594242	263.20	264.70	0.07	650	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	W594243	264.70	266.30	0.06	430	☐	☐	☐	☐	
20-011	W594244	266.30	266.80	2.10	160	☐	☐	☐	☐	
20-021	W599875	266.80	267.75	0.03	1270	☐	☐	☐	☐	
20-021	W599876	267.75	269.00	0.13	680	☐	☐	☐	☐	
20-011	W594245	269.00	269.75	0.62	310	☐	☐	☐	☐	
20-011	W594246	269.00	269.75	0.88	140	☑	☐	☐	☐	quarter dup
20-011	W594247	269.75	270.55	1.34	50	☐	☐	☐	☐	
20-011	W594249	270.55	271.20	0.04	820	☐	☐	☐	☐	
20-021	W599877	271.20	272.60	0.01	1100	☐	☐	☐	☐	
20-021	W599879	272.60	274.00	0.00	990	☐	☐	☐	☐	
20-021	W599880	274.00	275.50	0.01	850	☐	☐	☐	☐	
20-021	W599881	275.50	276.80	0.00	510	☐	☐	☐	☐	
20-011	B700501	276.80	277.20	0.15	360	☐	☐	☐	☐	
20-021	W599882	277.20	278.50	0.01	470	☐	☐	☐	☐	
20-021	W599883	278.50	280.00	0.00	780	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-021	W599884	280.00	281.50	0.00	720	☐	☐	☐	☐	
20-021	W599885	281.50	283.00	0.00	1060	☐	☐	☐	☐	
20-021	W599886	283.00	284.50	0.00	1140	☐	☐	☐	☐	
20-021	W599887	283.00	284.50	0.00	1200	☐	☑	☐	☐	coarse dup
20-021	W599888	284.50	286.00	0.00	1390	☐	☐	☐	☐	
20-021	W599889	286.00	287.00	0.00	980	☐	☐	☐	☐	
20-021	W599890	287.00	288.04	0.00	1020	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
10.20	10.21	FR	5	45	NUL	1	mn ox on fracture surfaces			
11.80	11.81	FR	5	45	NUL	1	fracture			
12.50	12.51	FR	5	15	NUL	1	fracture, oxidized and mn ox on surface			
14.00	14.01	FR	5	60	NUL	1	oxidized, rusty			
14.06	14.07	FR	5	55	NUL	1	oxidized, rusty			
15.00	15.01	FR	5	55	NUL	1	oxidized, rusty fracture			
16.80	16.81	FR	5	15	NUL	1	low angle fracture			
17.00	18.00	FR	5	30	NUL	4	fractures in moderately altered voclanics			
24.00	30.00	FR	5	10	NUL	5	low angle fractures sometimes filled with grey clay			
26.50	26.55	FR	5	70	NUL	2	fractures with clay infill			
28.00	28.01	FR	5	15	NUL	1	clay filled fracture			
29.00	30.00	FR	5	5	NUL	1	clay filled fracture			
29.50	29.51	FR	5	13	NUL	1	fracture			
31.00	34.00	FR	5	20	NUL	4	clay filled fractures			
34.10	34.11	FR	5	30	NUL	1	clay fill			
35.20	35.22	FR	5	30	NUL	1	fracture			
36.00	36.01	FR	5	70	NUL	1	fracture			
38.00	38.20	FR	5	20	NUL	2	rubbl fractures with clay infill			
42.50	42.51	FR	5	30	NUL	1	bleached fracture			
43.50	44.50	FR	5	35	NUL	4	rubbly fractures			
46.00	46.01	FR	5	15	NUL	1	bleaching and py around fracture			
46.15	46.25	FR	5	25	NUL	2	bleaching and py around fractures			
46.60	46.65	FR	5	20	NUL	2	bleaching and py around fracture			
47.00	47.50	FR	5	36	NUL	2	bleaching around fractures			
48.70	48.71	FR	5	58	NUL	1	bleaching an py halo			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
49.80	49.90	VT	37	15	NUL	1	bleaching and py around py veinlet/stringer			
56.00	56.40	FO	49	50	NUL	5	shear fabric/foliation in relithified rock			
61.00	61.01	FR	5	25	NUL	1	bleaching and py around fracture			
61.30	61.50	FO	49	35	NUL	5	shear fabric /foliation. Possibly relithified fault fabric?			
70.00	71.00	FO	49	35	NUL	5	shear fabric/foliation, possibly relithified fault shear fabric			
72.00	72.03	FO	49	40	NUL	1	shear fabric			
75.50	75.90	FO	49	60	NUL	10	shear fabric?			
79.50	79.51	FR	5	25	NUL	1	fracture with rubbly and py infill			
82.00	83.50	FO	49	60	NUL	10	shear fabric?			
84.80	85.00	FO	49	60	NUL	5	shear fabric?			
88.50	70.50	FO	49	60	NUL	10	shear fabris in fbx			
94.15	94.20	VT	37	50	NUL	1	pink carbonate and black quartz, ~3mm			
105.80	105.90	VT	37	20	NUL	1	pink carbonate and sulphide veinelt, ~2mm			
108.90	109.95	FT	42	35	NUL	1	fault material shear			
111.30	111.35	VN	37	22	NUL	1	Small mainly carbonate vein at 22 deg tca containing ~15% sulphides. Py-Gal-Sphal and/or Aspy, possibly sulphosalts			
								Gn	3	---
								Sp	3	---
								As	1	---
								Py	6	---
113.20	113.25	VN	37	30	NUL	1	carbonate and cherty grey quartz vein			
118.87	118.90	FT	42	30	NUL	1	fault shear			
133.10	133.40	FT	42	60	NUL	1	fault shear			
138.50	138.51	VT	37	70	NUL	2	small quartz carbonate hematite veinlet			
143.70	143.80	FR	5	55	NUL	5	carbonate infill fracture set			
150.00	150.40	FT	42	40	NUL	1	sheared fault zone			
151.70	151.80	FT	42	40	NUL	1	sheared fault interval			
152.00	155.00	FR	5	60	NUL	5	dark pyrite fractures			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
152.00	155.00	FR	5	45	NUL	5	dark pyrite infill fractures			
159.20	159.21	SH	81	40	NUL	1	shear in fractured interval			
160.70	160.71	SH	81	37	NUL	1	sheared rock			
164.30	164.50	FT	42	60	NUL	1	faulted contact between dyke and host rock			
177.70	177.80	FO	49	65	NUL	10	relithified shear folliation fabric			
182.30	182.60	FO	49	40	NUL	10	relithified shear follitation fabric			
182.80	182.90	FO	49	50	NUL	5	relithifie shear folliation fabric			
192.10	192.11	ST		52	NUL	1	small py stringer			
200.90	200.91	VT	37	60	NUL	1	rhodochrosite vienlet			
213.30	213.31	FR	5	38	NUL	1	clay and rubble filled fracture			
215.25	215.26	FR	5	35	NUL	1	rubbly clay infilled fracture			
216.30	216.35	FO	49	80	NUL	3	relithified fault shear			
218.80	218.85	FO	49	65	NUL	2	relithified fault shear			
224.50	224.51	SH	81	45	NUL	1	rubbly fault shear in relithified fault breccia			
224.80	224.83	SH	81	40	NUL	1	rubbly fault shear			
226.60	226.61	SH	81	45	NUL	1	weakly gougy shear/veinlet with abundant py			
230.00	230.01	SH	81	70	NUL	1	pyrite rich gouge near sheared/brecciated zone			
233.51	233.51	SH	81	60	NUL	1	carbonate chlorite weakly sheared veinlet			
237.40	237.50	FT	42	75	NUL	1	sheared fault material with sheared sulphides			
242.10	242.15	VN	37	65	NUL	1	mostly barren white and grey quartz vein, minor py			
245.25	245.30	SH	81	80	NUL	2	dark grey sulphide righ gougy shears			
252.05	252.07	VT	37	60	NUL	1	greenish grey cream coloured veinlet with py-sphal-gal			
252.80	252.85	VT	37	65	NUL	3	quartz carbonate py veinlets			
253.15	253.17	SH	81	65	NUL	1	rubbly gougy clay(?) carbonate vein(?)			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
262.70	262.90	VN	37	30	NUL	3	quartz sulphide veinlet interval, mainly silica flooded with sulphides growing in ~0.5cm scale withing the silica flooded host rock. Some small quartz veins with poorly defined margins. Py-aspy-sphal-gal.			
								Py	3	---
								Sp	3	---
								Gn	1	---
								As	1	---
266.50	266.58	VN	37	30	NUL	1	qtz-carboante vein with sulphides Py and Sphal and minor gal-aspy			
266.51	266.52	BN		80	NUL	1	fine grained band of Py ~1cm			
270.00	270.10	VN	37	65	NUL	1	Band of dominantly Aspy replacement(?)/vein			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383486	6890375	1288	283.46

ZONE: Exploration

SECTION:

HOLE: KL -20-477

CLAIM: YC97706

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 11 - Sep 14, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Pearl vein system extension

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.53	0.53	CAS
0.53	43.17	42.64	OVB
43.17	51.7	8.53	GRD
51.7	60.69	8.99	GRD
60.69	69.25	8.56	GRD
69.25	88.04	18.79	GRD
88.04	88.47	0.43	GRD
88.47	96.66	8.19	GRD
96.66	96.76	0.1	VEN
96.76	115.54	18.78	GRD
115.54	117.65	2.11	QFP
117.65	118.7	1.05	GRD
118.7	119.23	0.53	GRD
119.23	129.39	10.16	GRD
129.39	129.81	0.42	GRD
129.81	156.31	26.5	GRD

SAMPLES	
Numbers:	B700701 to B700717, W594801 to W594924
Total:	141
Batch:	022, 023, 024, 025, 026
Certificates:	WH20215135, WH20215137, WH20215140, WH20215143, WH20224788

COMMENTS
Handheld GPS accuracy of 1.8m

156.31	156.61	0.3	GRD
156.61	160.31	3.7	GRD
160.31	162.09	1.78	GRD
162.09	162.42	0.33	GRD
162.42	163.44	1.02	GRD
163.44	168.64	5.2	GRD
168.64	168.78	0.14	GRD
168.78	172.3	3.52	GRD
172.3	186.07	13.77	GRD
186.07	186.27	0.2	GRD
186.27	187.57	1.3	GRD
187.57	198.63	11.06	GRD
198.63	198.83	0.2	GRD
198.83	203.64	4.81	GRD
203.64	208.07	4.43	GRD
208.07	208.54	0.47	GRD
208.54	213.33	4.79	GRD
213.33	213.49	0.16	GRD
213.49	228.8	15.31	GRD
228.8	228.85	0.05	GRD
228.85	231.66	2.81	GRD
231.66	232.43	0.77	GRD
232.43	257.6	25.17	GRD
257.6	257.64	0.04	GRD
257.64	283.46	25.82	GRD

Box Log

KL -20-477

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.53	3.85
2	3.85	7.08
3	7.08	11.1
4	11.1	15.24
5	15.24	19.05
6	19.05	22.16
7	22.16	25.33
8	25.33	28.8
9	28.8	32.91
10	32.91	36.1
11	36.1	39.62
12	39.62	42.67
13	42.67	45.62
14	45.62	48.77
15	48.77	51.69
16	51.69	54.51
17	54.51	57.48
18	57.48	60.66
19	60.66	65.45
20	65.45	68.68
21	68.68	73.12
22	73.12	76.58
23	76.58	80.5
24	80.5	84.9
25	84.9	88.35
26	88.35	93.29
27	93.29	97.23
28	97.23	101.22
29	101.22	105.35
30	105.35	109.47
31	109.47	113.65
32	113.65	117.64
33	117.64	121.74
34	121.74	126.13
35	126.13	130.09
36	130.09	134.36
37	134.36	138.48
38	138.48	142.73
39	142.73	146.93
40	146.93	151.15
41	151.15	155.14
42	155.14	159.34
43	159.34	163.45
44	163.45	167.58
45	167.58	171.76
46	171.76	175.09
47	175.09	179.15
48	179.15	182.99
49	182.99	187.04
50	187.04	190.48
51	190.48	193.79
52	193.79	196.97
53	196.97	200.45
54	200.45	203.97
55	203.97	207.93
56	207.93	211.84
57	211.84	216
58	216	219.85
59	219.85	224.03
60	224.03	228.17
61	228.17	232.31
62	232.31	238.28
63	238.28	240.52
64	240.52	244.62
65	244.62	248.41
66	248.41	252.5
67	252.5	256.69
68	256.69	260.72
69	260.72	264.79
70	264.79	268.81
71	268.81	272.91
72	272.91	276.8
73	276.8	281.1
74	281.1	283.46

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-477									
	59.13	18	HTW	GRD	1817	1122.8	2.62	2.6	
	112.99	14	NTW	GRD	1283.9	806.9	3.24	2.7	
	118.78	11	NTW	GRD	930.2	669	2.99	3.6	
	179.9	17	NTW	GRD	1253.4	803.7	2.61	2.8	
	205.46	16	NTW	GRD	1100.1	770.2	2.43	3.3	
	232.35	11.75	NTW	GRD	886.3	599.7	2.67	3.1	3.5cm qtz-sulphide vein in altered fg grd. Py 20%, Aspy 20%, Sphal 5%.
	253.52	16	NTW	GRD	1080.2	695.3	2.39	2.8	unaltered fine grained grd
	279.92	14.6	NTW	GRD	1020.3	662.3	2.47	2.9	unaltered fine grained grd

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.53	0.53	CAS	--	Top of hole - casing no core recovered.							
0.53	43.17	42.64	OVB	--	OVB - Residual soil as well as sections of competent core mixed in with the soil. The ovb is quite extensive in this hole. Core ranges in size from 3 to 34 cm wide. The competent core is made up of granodiorite. There is local pervasive limonite alteration throughout this interval. Limonite alteration is predominantly in the soil and along fracture surfaces of the granodiorite. The granodiorite in the ovb is medium to coarse grained. It has varied alteration throughout the interval. Locally there is potassic alteration - moderate to weak (Trace overall). As well we see MnOx coming in along fracture surfaces and locally strongly staining. In very trace amounts we see fine grained blobs occuring in the granodiorite as xenolithic grains? Xenolith grains are dark green to grey in color .							
						MD	PK					
						MD	OR					
						LT	WH	XN	POT	1I		
						LT	GY	PH	LIM	4I		
						DK	BL					
						DK	OR					
43.17	51.70	8.53	GRD	MG	Contact with OVB is sharp but the granodiorite is situated in a fault and is very gougy at the start of the interval. This unit is pervasively limonite altered. Gouge - 10%, Rubble - 75%, and competent core - 15%. Locally we see MnOx along fracture surfaces. Locally we see sillica flooding at 46.91 - 47.24 m. Locally we can see grain size - medium to coarse grained but predominatly grain size can't be seen due to pervasive alteration.							
						MD	OR					
						DK	OR	RB	LIM	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.70	60.69	8.99	GRD	MG	Altered granodiorite. The granodiorite is pervasively limonite altered to 59.92 m where it becomes more patchy in nature. Along most fracture surfaces we see MnOx. Locally we see silica flooding? Coming in along a fracture surfaces giving half the core a fine grained texture where the other half is more gitty and rough (56.11 - 56.22 m). Possibly a aplite dyke??? The grain size is mostly obscured due to alteration but locally its medium to coarse grained. Locally we see argillic alteration. Feldspars have been altered to clay - the clay is white in coloration and has the residual feldspar shape. At 59.92 we see pyrite coming in - fresh, fine to medium grained and locally clustered together in blebs. We also see the argillic alteration in this zone forming more light green / blue clay. There are minor rubble zone in this interval.							
						MD	OR	RB	LIM	5I		
						LT	OR	PH	ARG	1I	Py	0.01
						LT	GY					
						DK	OR					
60.69	69.25	8.56	GRD	MG	Faulted and altered granodiorite. Rubble - 75%, Gouge - 5%, and 20% - competent core. Competent core is no bigger than 18 cm. In this interval we see pervasive limonite alteration. Locally we see MnOx along fracture surfaces. Locally we see pyrite in a gouge zone occurring at 67.50 - 67.69 m.The pyrite is fresh - fine to medium grained, euhedral and disseminated. Any texture is obliterated by alteration. Weak local clay alteration of feldspars.							
						MD	OR		LIM	5I	Py	0.1
						LT	GY					
						DK	OR		ARG	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
69.25	88.04	18.79	GRD	CG	Light grey to rusty orange granodiorite, coarse grained. This unit has variably alteration of limonite, clay (that is white as well as light blue/ green) and potassic.There is strong clay alteration of feldspars in this interval occurring as white as well as light green/ blue locally (Saussuritizaton???) In areas where limonite is more pervasive we see the white clay alteration and in areas where there is less limonite alteration we see the light green/ blue clay alteration. There is aso local trace red - purple clay alteration. In these more green/ blue zones we also see moderate potassic alteration (giving a purple/ pink coloration). Possible chlorite alteration? There is a small rubble and minor gouge zone at 75.00 - 75.67 m. There is local pyrite coming in along fractures forming bands as well as disseminated pyrite. Limonite is locally pervasive in other areas its restricted to along fracture surfaces - overall it is weak. Pyrite is trace overall. In very trace amounts we see chlorite coming in along fracture surfaces and in some of these fractures we see pyrite associated with this chlorite.							
						MD	OR		LIM	2I		
						LT	GY	RB	CLY	4I	Py	0.1
						LT	GN		POT	2I		
						LT	BL					
						LT	PU					
						DK	OR	PH	CHL	1I		
88.04	88.47	0.43	GRD	CG	Two small sulphide veins hosted in granodiorite. The first vein is approx. 2 cm wide and has pyrite (predominantly) as well as arsenopyrite, sphalerite and a trace amount of chalcopyrite. The second vein is about 8 cm wide but at the end of the interval the pyrite is more disseminated and spread throughout. The second vein is associated with a vein of calcite. The second vein is predominatly pyrite with a small spec of galena. Grandodiorite has the light blue/ green clay alteration. As well we see local pervasive limonite alteration. The granodiorite is coarse grained.							
						LT	GN	PH	CLY	3I	Py	5
						LT	BL		LIM	3I	As	2
						LT	OR				Sp	0.1
						DK	GY				Gn	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Cp	0.1
88.47	96.66	8.19	GRD	CG	Light grey diorite to light - medium rusty orange. This granodiorite unit is variable altered with limonite, chlorite and clay as well as potassic alteration. Clay alteration is strong in less limonite altered areas and occurs as white as well as a light blue/ green clay alteration. In the less limonite altered areas we also see weak to moderate potassic alteration. Limonite alteration is predominantly concentrated at the top of the interval up to 90.24 m and then is along fracture surfaces - occurring at the bottom of the interval. There is a small fault zone with rubble and minor gouge at 95.29 - 96.19 m. Locally we have cross cutting carbonate stringers.							
						MD	GY		CLY	4I		
						MD	OR		CHL	1I		
						LT	GY	PH	LIM	3I	Py	0.01
						LT	GN					
						LT	OR		POT	3I		
						LT	WH					
						LT	PU					
						LT	BL					
96.66	96.76	0.10	VEN	MG	Sulphide vein hosted in altered granodiorite. Vein is predominantly pyrite and trace chalcopyrite. Pyrite is fresh, occurring in coarse grained blebs with fine grained pyrite occurring in the larger bleb. There is minor calcite alteration occuring with the vein.							
						MD	GY				Py	2.5
						DK	GY				Cp	0.01
96.76	115.54	18.78	GRD	CG	Altered granodiorite with variable alteration of clay - white and light blue/ green, potassic, and chloritic alteration The alteration in local areas obliterate the texture making it appear less coarse grained and more medium grained. In these areas we predominatly see chlorite and potassic alteration. The granodiorite is overall light grey with blue green tinges. Local cross cuttting carbonate stringers. There is one that is light pink possibly rhodocrostie. Pyrite in this unit is trace, disseminated and fresh.							
						LT	GY	PH	CLY	4I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		CHL	2I		
						LT	PU		POT	3I		
						LT	BL					
						LT	GN					
115.54	117.65	2.11	QFP	FG	Quartz - feldspar - porphyritic dyke that is light grey / buff in color with cream to light grey phenocrysts that are blebby to lath shaped. In addition to these cream ones there are glassy grey quartz crystals that are semi-circular in nature. The upper contact with the granodiorite is brecciated. Local weak clay alteration in the phenocrysts. Cross cutting carbonate alteration is occurring locally. Pyrite is very trace in this dyke - occurring as fine grained and fresh.							
						MD	CR					
						LT	CR	PO	CLY	2I	Py	0.01
						LT	BF					
						LT	GY					
117.65	118.70	1.05	GRD	MG	Small interval of granodiorite between a dyke and a sulphide vein. At the top contact we see blebby coarse grained pyrite and is disseminated into the unit. The Granodiorite is altered and original texture is mostly obliterate by alteration but is still medium to coarse grained. Alteration is light grey/ blue clay alteration. We have minor gouge occurring along fracture surfaces locally. Lower contact is sharp with sulphide vein.							
						LT	GN	PH	CLY	4I	Py	1
						LT	GY					
118.70	119.23	0.53	VEN	MG	Sulphide vein host in altered granodiorie. Sulphide vein is preminantly pyrite but also has arsenopyrite as well as chalcopyrite and some trace galena. In the middle of this interval we have a small breciated zone with gouge (118.90 - 119.11 m). All sulphides are fresh, coarse grained and blebby in nature.							
119.23	123.57	4.34	GRD	VC	Same as general lith description.							
123.57	123.69	0.12	GRD	MG	Small rubble and gouge zone. Pyrite is occurring in and around this section in larger concentrations than in the rest of the interval.							
											Py	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.69	125.89	2.20	GRD	VC	Same as general lithology description.							
125.89	125.94	0.05	GRD	VC	Small pyrite veinlet. The main concentration of pyrite is 1.5 cm wide but then the pyrite is disseminated in higher concentrations than the rest of the granodiorite. Pyrite is fresh, coarse grained and blebby.							
											Py	1.5
125.94	126.45	0.51	GRD	VC	Same as general lith.							
126.45	126.52	0.07	VEN	VC	Small sulphide vein - pyrite. Pyrite is fresh and coarse grained.							
											Py	2
126.52	127.36	0.84	GRD	MG	Small weakly brecciated zone occurring after sulphide vein. Gouge is occurring along fracture surfaces.							
127.36	129.39	2.03	GRD	VC	Same as lith description							
129.39	129.81	0.42	GRD	CG	Two sulphide veins hosted in a altered granodiorite. Top of the interval is slightly gougy. 1st vein (129.64 - 129.72m) is made up of pyrite, sphalerie and trace amounts of galena. The second vein (129.76 - 129.81 m) is pyrite, galena and trace amounts of sphalerite.							
						LT	GY				Py	3.5
											Sp	0.5
											Gn	0.5
129.81	156.31	26.50	GRD	CG	Variable altered granodiorite. Light grey overall with light green / blue, light purple/ pink and dark green. In this unit we see clay alteration occurring as white and light green/ blue. In this interval its predominatly light green/ blue rather than the white. We also see potassic and chloritic alteration. After 146.26 m to approx 149 m we see a zone of low angle tca fracturing some infilled with minor gouge. At 141 m to 142.19 m there are a series of small pyrite veins (3). In addition to this pyrite we see disseminated pyrite as well as local clustering of pyrite. Local dark red/ purple hematite alteration in this interval.							
						MD	PU					
						MD	RD					
						LT	GY	PH	CLY	4I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	FR	HEM	1I		
						LT	BL		CHL	2I		
156.31	156.61	0.30	GRD	CG	Small sulphide veins zone hosted in altered granodiorite. Predominantly black jack sphalerite but also pyrite and some galena and arsenopyrite. In this zone it is fractured and gougy. Veins are 2 mm to 2 cm wide.							
						LT	GY	FR			Sp	2
											Py	1
											As	0.5
											Gn	0.1
156.61	160.31	3.70	GRD	CG	Light green/ blue to light grey altered granodiorite. The light green / blue is due to pervasive clay alteration and there is also minor darker green chloritic alteration. This unit has small mm wide pyrite and black jake sphalerite veins as well as disseminated pyrite. Pyrite - 0.5% overall and sphalerite is trace.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	GY					
						LT	BL		CHL	1I	Sp	0.01
160.31	162.09	1.78	GRD	CG	Faulted altered grandodiorite. This is a zone of granodiorite right before a sulphide vein zone. This unit is fractured with gouge along fracture surfaces. Gouge - 10%. This unit is clay altered with light green/ blue clay. Weak chlorite alteration in this unit spread throughout the unit.There is small local concentrations of pyrite, galena and sphalerite in this unit.							
						LT	GN	RB	CLY	4I	Py	0.5
						LT	GY	PH			Sp	0.01
						LT	BL	CR	CHL	1I	Gn	0.01
162.09	162.42	0.33	GRD	CG	Altered granodiorite after faulting and before sulphide veining. Light grey to light green/ blue color. Strong clay alteration.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL					
						LT	GY					
162.42	163.44	1.02	GRD	CG	Sulphide veins host in a altered granodiorite. The most predominantly sulpide is pyrite but we also have galena, sphalerite, and chalcopyrite. Veins 2 mm to 3 cm wide veins. 9 different sulphide veins in this interval. Pyrite is also disseminated in this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CLY	4I	Py	5
						LT	BL				Gn	0.1
						LT	GY				Sp	0.5
											Cp	0.01
163.44	168.64	5.20	GRD	CG	Light green / blue altered granodiorite. Strong pervasive clay alteration giving the core the light green / blue coloration. We also see weak patchy chlorite alteration. 10 cm gouge zone occurring at 167.71 - 167.81 m. Trace disseminated pyrite in this unit as well as pyrite coming in local clusters along fracture surfaces.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL		CHL	1I		
						LT	GY					
168.64	168.78	0.14	GRD	CG	Sulphide vein zone host in granodiorite - predominantly pyrite but we also have galena, arsenopyrite, sphalerite and chalcopyrite. There are 3 different veins. Veins are 3 mm wide to 1 cm wide.							
						MD	GY				Py	3
											As	0.2
											Cp	0.01
											Sp	0.2
168.78	172.30	3.52	GRD	CG	Light green/ blue to dark forest green and areas of light pink/ purple altered granodiorite. This unit is variably altered with strong clay alteration (light green / blue) up till approx. 169.85 m where we see more strong pervasive chloritic alteration coming in. In the more chloritic alteration we also see moderate potassic alteration. After 170.79 m to the end of the interval we see rubbled core. This unit has trace disseminated pyrite - at the start of the interval we see slightly higher concentrations of pyrite near the sulphide veins.							
						MD	PK					
						MD	PU					
						LT	GN	PH	CLY	3I	Py	0.1
						LT	BL		CHL	3I		
						DK	GN		POT	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
172.30	186.07	13.77	GRD	FG	A very different granodiorite than the above granodiorite possible a different aged? This granodiorite is fine grained and fairly fresh in comparison to the other granodiorite. The granodiorite is also dark grey in coloration with abundant dark to black biotite alteration. At the top of this interval there is abundant fracturing infilled with calcite. We also see chlorite alteration coming in along fracture surfaces in this unit. Locally we also see calcite along fracture surfaces as well as patchy hematite.							
						DK	GY	AN	CHL	2I		
								FR	HEM	1I		
186.07	186.27	0.20	GRD	FG	Sulphide vein zone host in granodiorite. The sulphide veins are made up of pyrite, sphalerite, arsenopyrite, and galena. All are blebby in texture and massive.							
						MD	GY				Py	5
											As	0.3
											Sp	1.5
											Gn	0.3
186.27	187.57	1.30	GRD	FG	Dark grey fine grained granodiorite with strong black biotite alteration. Fracture is occurring near the end of the interval that is infilled with calcite. The lower contact is faulted.							
187.57	198.63	11.06	GRD	FG	Dark grey to almost black, fine grained granodiorite (same as above). Black biotite is spread throughout this this interval. This zone is faulted and is predominantly rubble with some competent core in between. Rubble - 80% and competent core - 20%. Chlorite, calcite as well as patchy hematite is coming in along fracture sufaces. Predominantly chlorite. At the lower contact we see a 10 cm wide bleached halo before the sulphide veining.							
						MD	GY	AN				
						DK	GY					
						DK	BL					
198.63	198.83	0.20	GRD	FG	Sulphide veining host in granodiorite. 3 separate veins. Veins are 5 mm to 2 cm wide. Veins are predominatly galena and sphalerite with some pyrite. All sulphides are fresh and blebby.							
						LT	GY				Gn	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Sp	1
											Py	1
198.83	203.64	4.81	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. This unit is rubbled and faulted. It is predominatly rubble with some competent core inbetween. Rubble is 70% and competent core is 30%. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Local shearing zone where we lose the granodiorite texture at 202.35 to 202.69 m. Throughout this interal we see fracturing infilled with calcite.							
						MD	GY		HEM	1I		
						DK	GY	AN	CHL	2I		
203.64	208.07	4.43	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite. Slight bleaching at the lower contact with the sulphide veining.							
						MD	GY					
						LT	GY		HEM	1I		
						DK	GY	AN	CHL	2I		
208.07	208.54	0.47	GRD	FG	Sulphide veining host in granodiorite. 3 different sulphide veins The veins range in size from 2 cm to 3 cm wide. The first vein is predominantly black jack sphalerite with a small amount of pyrite. The second one is pyrite and the third one is galena along the outside with pyrite on the inside. All sulphides are fresh and blebby.							
						LT	GY				Py	4
											Gn	0.5
											Sp	2
208.54	213.33	4.79	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.							
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
213.33	213.49	0.16	GRD	FG	Sulphide vein host in a granodiorite. White quartz veining with weak carbonate alteration. On either side of the veining we see bleaching. The veins are on the mm scale and are comprised of pyrite, sphalerite and galena.							
						LT	GY				Py	0.5
											Sp	0.3
											Gn	0.1
213.49	228.80	15.31	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.							
						MD	GY					
						LT	GY	FR				
						DK	GY	AN	CHL	2I		
228.80	228.85	0.05	GRD	FG	Small sulphide vein - 6 mm wide that is made up of honey brown spalerite as well as black jack spalerite as well as galena and some pyrite in the selvages of the vein.							
						LT	GY				Sp	1
											Py	0.5
											Gn	0.5
228.85	231.66	2.81	GRD	FG	Dark grey fine grained granodiorite with local bleached to light grey/ white. There is abundant fracture infilled with calcite alteration. Fractures have chloritic alteration.							
						MD	GY					
						LT	GY	AN				
						DK	GY					
231.66	232.43	0.77	GRD	FG	A series of small sulphide veins and at the end of the intveral there is a larger sulphide vein. Veins are 4 mm up to 2 cm wide. Veins are made up of sphalerite, pyrite and arsenopyrite. Sulphides are coarse grained, fresh and blebby.							
						LT	GY				Py	3
						DK	GY				Sp	1
											As	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
232.43	257.60	25.17	GRD	MG	Medium to dark grey granodiorite that is more medium grained vs fine grained. There is abundant black biotite throughout this interval. Locally this granodiorite is more altered. Predominantly its clay alteration that is white in color. We also see strong local chlorite alteration in lighter colored areas and the biotite is missing. Chlorite alteration is coming in along fracture surfaces. Calcite is infilling fracture surfaces throughout this unit. There are a few small sulphide veins situated in this interval - 240.15 - 240.17 m there is a white quartz vein with arsenopyrite along the selvage as well as some pyrite as well. 243.39 - 243.41 m - a white quartz vein with black jack sphalerite inside the vein as well as pyrite and galena. 249.86 - 249.89 m - small sulphite vein made up of pyrite and chalcopyrite. 254.81 - 254.90 m - small concentration of sulphides - black jake sphalerite and pyrite form a vein and then after the vein there is some disseminated pyrite.							
						MD	GY				Sp	0.01
						LT	GY				Gn	0.01
						DK	GY	AN	CHL	2I	Py	0.01
											Cp	0.01
257.60	257.64	0.04	GRD	FG	Small sulphide vein hosted in granodiorite. Vein is 2 cm wide. Vein is pyrite, galena and sphalerite. All are fresh, coarse grained and blebby.							
						LT	GY				Py	1.5
											Gn	0.5
											Sp	0.5
257.64	283.46	25.82	GRD	MG	Dark grey to black, medium grained to fine grained granodiorite. Chlorite occurring along fracture surfaces. As well as some calcite coming in along fracture surfaces. Local zones of bleaching due to this carbonate coming in. E.O.H.							
						MD	GY					
						LT	GY					
						DK	GY	AN	CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.53	0.53	CAS	---	--	Top of hole - casing no core recovered.
0.53	43.17	42.64	OVB	OVB	--	OVB - Residual soil as well as sections of competent core mixed in with the soil. The ovb is quite extensive in this hole. Core ranges in size from 3 to 34 cm wide. The competent core is made up of granodiorite. There is local pervasive limonite alteration throughout this interval. Limonite alteration is predominantly in the soil and along fracture surfaces of the granodiorite. The granodiorite in the ovb is medium to coarse grained. It has varied alteration throughout the interval. Locally there is potassic alteration - moderate to weak (Trace overall). As well we see MnOx coming in along fracture surfaces and locally strongly staining. In very trace amounts we see fine grained blobs occuring in the granodiorite as xenolithic grains? Xenolith grains are dark green to grey in color .
43.17	51.70	8.53	GRD	FLTA	MG	Contact with OVB is sharp but the granodiorite is situated in a fault and is very gougy at the start of the interval. This unit is pervasively limonite altered. Gouge - 10%, Rubble - 75%, and competent core - 15%. Locally we see MnOx along fracture surfaces. Locally we see sillica flooding at 46.91 - 47.24 m. Locally we can see grain size - medium to coarse grained but predominatly grain size can't be seen due to pervasive alteration.
51.70	60.69	8.99	GRD	GRDA	MG	Altered granodiorite. The granodiorite is pervasively limonite altered to 59.92 m where it becomes more patchy in nature. Along most fracture surfaces we see MnOx. Locally we see silica flooding? Coming in along a fracture surfaces giving half the core a fine grained texture where the other half is more gitty and rough (56.11 - 56.22 m). Possibly a aplite dyke??? The grain size is mostly obscured due to alteration but locally its medium to coarse grained. Locally we see argillic alteration. Feldspars have been altered to clay - the clay is white in coloration and has the residual feldspar shape. At 59.92 we see pyrite coming in - fresh, fine to medium grained and locally clustered together in blebs. We also see the argillic alteration in this zone forming more light green / blue clay. There are minor rubble zone in this interval.
60.69	69.25	8.56	GRD	FLTA	MG	Faulted and altered granodiorite. Rubble - 75%, Gouge - 5%, and 20% - competent core. Competent core is no bigger than 18 cm. In this interval we see pervasive limonite alteration. Locally we see MnOx along fracture surfaces. Locally we see pyrite in a gouge zone occurring at 67.50 - 67.69 m.The pyrite is fresh - fine to medium grained, euhedral and disseminated. Any texture is obliterated by alteration. Weak local clay alteration of feldspars.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
69.25	88.04	18.79	GRD	GRDA	CG	Light grey to rusty orange granodiorite, coarse grained. This unit has variably alteration of limonite, clay (that is white as well as light blue/ green) and potassic.There is strong clay alteration of feldspars in this interval occurring as white as well as light green/ blue locally (Saussuritizaton???) In areas where limonite is more pervasive we see the white clay alteration and in areas where there is less limonite alteration we see the light green/ blue clay alteration. There is aso local trace red - purple clay alteration. In these more green/ blue zones we also see moderate potassic alteration (giving a purple/ pink coloration). Possible chlorite alteration? There is a small rubble and minor gouge zone at 75.00 - 75.67 m. There is local pyrite coming in along fractures forming bands as well as disseminated pyrite. Limonite is locally pervasive in other areas its restricted to along fracture surfaces - overall it is weak. Pyrite is trace overall. In very trace amounts we see chlorite coming in along fracture surfaces and in some of these fractures we see pyrite associated with this chlorite.
88.04	88.47	0.43	GRD	VEIN	CG	Two small sulphide veins hosted in granodiorite. The first vein is approx. 2 cm wide and has pyrite (predominantly) as well as arsenopyrite, sphalerite and a trace amount of chalcopyrite. The second vein is about 8 cm wide but at the end of the interval the pyrite is more disseminated and spread throughout. The second vein is associated with a vein of calcite. The second vein is predominatly pyrite with a small spec of galena. Grandodiorite has the light blue/ green clay alteration. As well we see local pervasive limonite alteration. The granodiorite is coarse grained.
88.47	96.66	8.19	GRD	GRDA	CG	Light grey diorite to light - medium rusty orange. This granodiorite unit is variable altered with limonite, chlorite and clay as well as potassic alteration. Clay alteration is strong in less limonite altered areas and occurs as white as well as a light blue/ green clay alteration. In the less limonite altered areas we also see weak to moderate potassic alteration. Limonite alteration is predominantly concentrated at the top of the interval up to 90.24 m and then is along fracture surfaces - occurring at the bottom of the interval. There is a small fault zone with rubble and minor gouge at 95.29 - 96.19 m. Locally we have cross cutting carbonate stringers.
96.66	96.76	0.10	VEN	GRDA	MG	Sulphide vein hosted in altered granodiorite. Vein is predominantly pyrite and trace chalcopyrite. Pyrite is fresh, occurring in coarse grained blebs with fine grained pyrite occurring in the larger bleb. There is minor calcite alteration occuring with the vein.
96.76	115.54	18.78	GRD	GRDA	CG	Altered granodiorite with variable alteration of clay - white and light blue/ green, potassic, and chloritic alteration The alteration in local areas obliterate the texture making it appear less coarse grained and more medium grained. In these areas we predominatly see chlorite and potassic alteration. The granodiorite is overall light grey with blue green tinges. Local cross cuttting carbonate stringers. There is one that is light pink possibly rhodocrostie. Pyrite in this unit is trace, disseminated and fresh.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
115.54	117.65	2.11	QFP	DYK	FG	Quartz - feldspar - porphyritic dyke that is light grey / buff in color with cream to light grey phenocrysts that are blebby to lath shaped. In addition to these cream ones there are glassy grey quartz crystals that are semi-circular in nature. The upper contact with the granodiorite is brecciated. Local weak clay alteration in the phenocrysts. Cross cutting carbonate alteration is occurring locally. Pyrite is very trace in this dyke - occurring as fine grained and fresh.
117.65	118.70	1.05	GRD	GRDA	MG	Small interval of granodiorite between a dyke and a sulphide vein. At the top contact we see blebby coarse grained pyrite and is disseminated into the unit. The Granodiorite is altered and original texture is mostly obliterate by alteration but is still medium to coarse grained. Alteration is light grey/ blue clay alteration. We have minor gouge occurring along fracture surfaces locally. Lower contact is sharp with sulphide vein.
118.70	119.23	0.53	VEN	VEIN	MG	Sulphide vein host in altered granodiorie. Sulphide vein is preminantly pyrite but also has arsenopyrite as well as chalcopyrite and some trace galena. In the middle of this interval we have a small breciated zone with gouge (118.90 - 119.11 m). All sulphides are fresh, coarse grained and blebby in nature.
119.23	123.57	4.34	GRD	GRDA	VC	Same as general lith description.
123.57	123.69	0.12	GRD	GRDA	MG	Small rubble and gouge zone. Pyrite is occurring in and around this section in larger concentrations than in the rest of the interval.
123.69	125.89	2.20	GRD	GRDA	VC	Same as general lithology description.
125.89	125.94	0.05	GRD	GRDA	VC	Small pyrite veinlet. The main concentration of pyrite is 1.5 cm wide but then the pyrite is disseminated in higher concentrations than the rest of the granodiorite. Pyrite is fresh, coarse grained and blebby.
125.94	126.45	0.51	GRD	GRDA	VC	Same as general lith.
126.45	126.52	0.07	VEN	GRDA	VC	Small sulphide vein - pyrite. Pyrite is fresh and coarse grained.
126.52	127.36	0.84	GRD	GRDA	MG	Small weakly brecciated zone occurring after sulphide vein. Gouge is occurring along fracture surfaces.
127.36	129.39	2.03	GRD	GRDA	VC	Same as lith description
129.39	129.81	0.42	GRD	VEIN	CG	Two sulphide veins hosted in a altered granodiorite. Top of the interval is slightly gougy. 1st vein (129.64 - 129.72m) is made up of pyrite, sphalerie and trace amounts of galena. The second vein (129.76 - 129.81 m) is pyrite, galena and trace amounts of sphalerite.
129.81	156.31	26.50	GRD	GRDA	CG	Variable altered granodiorite. Light grey overall with light green / blue, light purple/ pink and dark green. In this unit we see clay alteration occurring as white and light green/ blue. In this interval its predominatly light green/ blue rather than the white. We also see potassic and chloritic alteration. After 146.26 m to approx 149 m we see a zone of low angle tca fracturing some infilled with minor gouge. At 141 m to 142.19 m there are a series of small pyrite veins (3). In addition to this pyrite we see disseminated pyrite as well as local clustering of pyrite. Local dark red/ purple hematite alteration in this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
156.31	156.61	0.30	GRD	VEIN	CG	Small sulphide veins zone hosted in altered granodiorite. Predominantly black jack sphalerite but also pyrite and some galena and arsenopyrite. In this zone it is fractured and gougy. Veins are 2 mm to 2 cm wide.
156.61	160.31	3.70	GRD	GRDA	CG	Light green/ blue to light grey altered granodiorite. The light green / blue is due to pervasive clay alteration and there is also minor darker green chloritic alteration. This unit has small mm wide pyrite and black jake sphalerite veins as well as disseminated pyrite. Pyrite - 0.5% overall and sphalerite is trace.
160.31	162.09	1.78	GRD	FLTA	CG	Faulted altered grandodiorite. This is a zone of granodiorite right before a sulphide vein zone. This unit is fractured with gouge along fracture surfaces. Gouge - 10%. This unit is clay altered with light green/ blue clay. Weak chlorite alteration in this unit spread throughout the unit.There is small local concentrations of pyrite, galena and sphalerite in this unit.
162.09	162.42	0.33	GRD	GRDA	CG	Altered granodiorite after faulting and before sulphide veining. Light grey to light green/ blue color. Strong clay alteration.
162.42	163.44	1.02	GRD	VEIN	CG	Sulphide veins host in a altered granodiorite. The most predominantly sulpide is pyrite but we also have galena, sphalerite, and chalcopyrite. Veins 2 mm to 3 cm wide veins. 9 different sulphide veins in this interval. Pyrite is also disseminated in this interval.
163.44	168.64	5.20	GRD	GRDA	CG	Light green / blue altered granodiorite. Strong pervasive clay alteration giving the core the light green / blue coloration. We also see weak patchy chlorite alteration. 10 cm gouge zone occurring at 167.71 - 167.81 m. Trace disseminated pyrite in this unit as well as pyrite coming in local clusters along fracture surfaces.
168.64	168.78	0.14	GRD	VEIN	CG	Sulphide vein zone host in granodiorite - predominantly pyrite but we also have galena, arsenopyrite, sphalerite and chalcopyrite. There are 3 different veins. Veins are 3 mm wide to 1 cm wide.
168.78	172.30	3.52	GRD	GRDA	CG	Light green/ blue to dark forest green and areas of light pink/ purple altered granodiorite. This unit is variably altered with strong clay alteration (light green / blue) up till approx. 169.85 m where we see more strong pervasive chloritic alteration coming in. In the more chloritic alteration we also see moderate potassic alteration. After 170.79 m to the end of the interval we see rubbled core. This unit has trace disseminated pyrite - at the start of the interval we see slightly higher concentrations of pyrite near the sulphide veins.
172.30	186.07	13.77	GRD	GRD	FG	A very different granodiorite than the above granodiorite possible a different aged? This granodiorite is fine grained and fairly fresh in comparison to the other granodiorite. The granodiorite is also dark grey in coloration with abundant dark to black biotite alteration. At the top of this interval there is abundant fracturing infilled with calcite. We also see chlorite alteration coming in along fracture surfaces in this unit. Locally we also see calcite along fracture surfaces as well as patchy hematite.
186.07	186.27	0.20	GRD	VEIN	FG	Sulphide vein zone host in granodiorite. The sulphide veins are made up of pyrite, sphalerite, arsenopyrite, and galena. All are blebby in texture and massive.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
186.27	187.57	1.30	GRD	GRD	FG	Dark grey fine grained granodiorite with strong black biotite alteration. Fracture is occurring near the end of the interval that is infilled with calcite. The lower contact is faulted.
187.57	198.63	11.06	GRD	FLT	FG	Dark grey to almost black, fine grained granodiorite (same as above). Black biotite is spread throughout this this interval. This zone is faulted and is predominantly rubble with some competent core in between. Rubble - 80% and competent core - 20%. Chlorite, calcite as well as patchy hematite is coming in along fracture sufaces. Predominantly chlorite. At the lower contact we see a 10 cm wide bleached halo before the sulphide veining.
198.63	198.83	0.20	GRD	VEIN	FG	Sulphide veining host in granodiorite. 3 separate veins. Veins are 5 mm to 2 cm wide. Veins are predominatly galena and sphalerite with some pyrite. All sulphides are fresh and blebby.
198.83	203.64	4.81	GRD	FLT	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. This unit is rubbled and faulted. It is predominatly rubble with some competent core inbetween. Rubble is 70% and competent core is 30%. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Local shearing zone where we lose the granodiorite texture at 202.35 to 202.69 m. Throughout this interal we see fracturing infilled with calcite.
203.64	208.07	4.43	GRD	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite. Slight bleaching at the lower contact with the sulphide veining.
208.07	208.54	0.47	GRD	VEIN	FG	Sulphide veining host in granodiorite. 3 different sulphide veins The veins range in size from 2 cm to 3 cm wide. The first vein is predominantly black jack sphalerite with a small amount of pyrite. The second one is pyrite and the third one is galena along the outside with pyrite on the inside. All sulphides are fresh and blebby.
208.54	213.33	4.79	GRD	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.
213.33	213.49	0.16	GRD	VEIN	FG	Sulphide vein host in a granodiorite. White quartz veining with weak carbonate alteration. On either side of the veining we see bleaching. The veins are on the mm scale and are comprised of pyrite, sphalerite and galena.
213.49	228.80	15.31	GRD	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.
228.80	228.85	0.05	GRD	VEIN	FG	Small sulphide vein - 6 mm wide that is made up of honey brown spalerite as well as black jack spalerite as well as galena and some pyrite in the selvages of the vein.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
228.85	231.66	2.81	GRD	GRD	FG	Dark grey fine grained granodiorite with local bleached to light grey/ white. There is abundant fracture infilled with calcite alteration. Fractures have chloritic alteration.
231.66	232.43	0.77	GRD	VEIN	FG	A series of small sulphide veins and at the end of the intveral there is a larger sulphide vein. Veins are 4 mm up to 2 cm wide. Veins are made up of sphalerite, pyrite and arsenopyrite. Sulphides are coarse grained, fresh and blebby.
232.43	257.60	25.17	GRD	GRD	MG	Medium to dark grey granodiorite that is more medium grained vs fine grained. There is abundant black biotite throughout this interval. Locally this granodiorite is more altered. Predominantly its clay alteration that is white in color. We also see strong local chlorite alteration in lighter colored areas and the biotite is missing. Chlorite alteration is coming in along fracture surfaces. Calcite is infilling fracture surfaces throughout this unit. There are a few small sulphide veins situated in this interval - 240.15 - 240.17 m there is a white quartz vein with arsenopyrite along the selvage as well as some pyrite as well. 243.39 - 243.41 m - a white quartz vein with black jack sphalerite inside the vein as well as pyrite and galena. 249.86 - 249.89 m - small sulphite vein made up of pyrite and chalcopyrite. 254.81 - 254.90 m - small concentration of sulphides - black jake sphalerite and pyrite form a vein and then after the vein there is some disseminated pyrite.
257.60	257.64	0.04	GRD	VEIN	FG	Small sulphide vein hosted in granodiorite. Vein is 2 cm wide. Vein is pyrite, galena and sphalerite. All are fresh, coarse grained and blebby.
257.64	283.46	25.82	GRD	GRD	MG	Dark grey to black, medium grained to fine grained granodiorite. Chlorite occurring along fracture surfaces. As well as some calcite coming in along fracture surfaces. Local zones of bleaching due to this carbonate coming in. E.O.H.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.53	0.53	CAS	--	Top of hole - casing no core recovered.							
0.53	43.17	42.64	OVB	--	OVB - Residual soil as well as sections of competent core mixed in with the soil. The ovb is quite extensive in this hole. Core ranges in size from 3 to 34 cm wide. The competent core is made up of granodiorite. There is local pervasive limonite alteration throughout this interval. Limonite alteration is predominantly in the soil and along fracture surfaces of the granodiorite. The granodiorite in the ovb is medium to coarse grained. It has varied alteration throughout the interval. Locally there is potassic alteration - moderate to weak (Trace overall). As well we see MnOx coming in along fracture surfaces and locally strongly staining. In very trace amounts we see fine grained blobs occuring in the granodiorite as xenolithic grains? Xenolith grains are dark green to grey in color .							
						LT	WH	XN	POT	1I		
						LT	GY	PH	LIM	4I		
						DK	BL					
						MD	PK					
						MD	OR					
						DK	OR					
43.17	51.70	8.53	GRD	MG	Contact with OVB is sharp but the granodiorite is situated in a fault and is very gougy at the start of the interval. This unit is pervasively limonite altered. Gouge - 10%, Rubble - 75%, and competent core - 15%. Locally we see MnOx along fracture surfaces. Locally we see sillica flooding at 46.91 - 47.24 m. Locally we can see grain size - medium to coarse grained but predominatly grain size can't be seen due to pervasive alteration.							
						DK	OR	RB	LIM	5I		
						MD	OR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.70	60.69	8.99	GRD	MG	Altered granodiorite. The granodiorite is pervasively limonite altered to 59.92 m where it becomes more patchy in nature. Along most fracture surfaces we see MnOx. Locally we see silica flooding? Coming in along a fracture surfaces giving half the core a fine grained texture where the other half is more gitty and rough (56.11 - 56.22 m). Possibly a aplite dyke??? The grain size is mostly obscured due to alteration but locally its medium to coarse grained. Locally we see argillic alteration. Feldspars have been altered to clay - the clay is white in coloration and has the residual feldspar shape. At 59.92 we see pyrite coming in - fresh, fine to medium grained and locally clustered together in blebs. We also see the argillic alteration in this zone forming more light green / blue clay. There are minor rubble zone in this interval.							
						LT	OR	RB	ARG	1I	Py	0.01
						MD	OR	PH	LIM	5I		
						DK	OR					
						LT	GY					
60.69	69.25	8.56	GRD	MG	Faulted and altered granodiorite. Rubble - 75%, Gouge - 5%, and 20% - competent core. Competent core is no bigger than 18 cm. In this interval we see pervasive limonite alteration. Locally we see MnOx along fracture surfaces. Locally we see pyrite in a gouge zone occurring at 67.50 - 67.69 m.The pyrite is fresh - fine to medium grained, euhedral and disseminated. Any texture is obliterated by alteration. Weak local clay alteration of feldspars. At 61.08 to 61.11 m there are coarse grained blebs of galena - 0.5% locally.							
						LT	GY					
						MD	OR		LIM	5I	Py	0.1
						DK	OR		ARG	1I	Gn	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
69.25	88.04	18.79	GRD	CG	Light grey to rusty orange granodiorite, coarse grained. This unit has variably alteration of limonite, clay (that is white as well as light blue/ green) and potassic.There is strong clay alteration of feldspars in this interval occurring as white as well as light green/ blue locally (Saussuritizaton???) In areas where limonite is more pervasive we see the white clay alteration and in areas where there is less limonite alteration we see the light green/ blue clay alteration. There is aso local trace red - purple clay alteration. In these more green/ blue zones we also see moderate potassic alteration (giving a purple/ pink coloration). Possible chlorite alteration? There is a small rubble and minor gouge zone at 75.00 - 75.67 m. There is local pyrite coming in along fractures forming bands as well as disseminated pyrite. Limonite is locally pervasive in other areas its restricted to along fracture surfaces - overall it is weak. Pyrite is trace overall. In very trace amounts we see chlorite coming in along fracture surfaces and in some of these fractures we see pyrite associated with this chlorite.							
						LT	PU					
						LT	BL					
						LT	GN		POT	2I		
						MD	OR		LIM	2I		
						LT	GY	PH	CLY	4I	Py	0.1
						DK	OR	RB	CHL	1I		
88.04	88.47	0.43	GRD	CG	Two small sulphide veins hosted in granodiorite. The first vein is approx. 2 cm wide (88.05-88.07m) and has pyrite (predominantly) as well as arsenopyrite, sphalerite and a trace amount of chalcopyrite. The second vein is about 8 cm wide (88.36 - 88.47 m) but at the end of the interval the pyrite is more disseminated and spread throughout. The second vein is associated with a vein of calcite. The second vein is predominatly pyrite with a small spec of galena. Grandodiorite has the light blue/ green clay alteration. As well we see local pervasive limonite alteration. The granodiorite is coarse grained.							
						DK	GY				Gn	0.1
											Cp	0.1
						LT	GN	PH	CLY	3I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BL		LIM	3I	As	2
						LT	OR				Sp	0.1
88.47	96.66	8.19	GRD	CG	Light grey diorite to light - medium rusty orange. This granodiorite unit is variable altered with limonite, chlorite and clay as well as potassic alteration. Clay alteration is strong in less limonite altered areas and occurs as white as well as a light blue/ green clay alteration. In the less limonite altered areas we also see weak to moderate potassic alteration. Limonite alteration is predominantly concentrated at the top of the interval up to 90.24 m and then is along fracture surfaces - occurring at the bottom of the interval. There is a small fault zone with rubble and minor gouge at 95.29 - 96.19 m. Locally we have cross cutting carbonate stringers.							
						MD	OR		CHL	1I		
						LT	GY	PH	LIM	3I	Py	0.01
						LT	OR		POT	3I		
						LT	WH					
						LT	PU					
						LT	BL					
						LT	GN					
						MD	GY		CLY	4I		
96.66	96.76	0.10	VEN	MG	Sulphide vein hosted in altered granodiorite. Vein is predominantly pyrite and trace chalcopyrite. Pyrite is fresh, occurring in coarse grained blebs with fine grained pyrite occurring in the larger bleb. There is minor calcite alteration occuring with the vein.							
						MD	GY				Py	2.5
						DK	GY				Cp	0.01
96.76	115.54	18.78	GRD	CG	Altered granodiorite with variable alteration of clay - white and light blue/ green, potassic, and chloritic alteration The alteration in local areas obliterate the texture making it appear less coarse grained and more medium grained. In these areas we predominatly see chlorite and potassic alteration. The granodiorite is overall light grey with blue green tinges. Local cross cuttting carbonate stringers. There is one that is light pink possibly rhodocrostie. Pyrite in this unit is trace, disseminated and fresh. The lower contact is brecciated and goes from 115.30 to 115.54 m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		CHL	2I		
						LT	GN					
						LT	GY	PH	CLY	4I	Py	0.1
						LT	PU		POT	3I		
						LT	BL					
115.54	117.65	2.11	QFP	FG	Quartz - feldspar - porphyritic dyke that is light grey / buff in color with cream to light grey phenocrysts that are blebby to lath shaped. In addition to these cream ones there are glassy grey quartz crystals that are semi-circular in nature. The upper contact with the granodiorite is brecciated. Local weak clay alteration in the phenocrysts. Cross cutting carbonate alteration is occurring locally. Pyrite is very trace in this dyke - occurring as fine grained and fresh. Sharp lower contact with granodiorite that is mineralized with pyrite at the lower contact.							
						LT	BF					
						LT	CR	PO	CLY	2I	Py	0.01
						LT	GY					
						MD	CR					
117.65	118.70	1.05	GRD	MG	Small interval of granodiorite between a dyke and a sulphide vein. At the top contact we see blebby coarse grained pyrite and is disseminated into the unit. The Granodiorite is altered and original texture is mostly obliterate by alteration but is still medium to coarse grained. Alteration is light grey/ blue clay alteration. We have minor gouge occurring along fracture surfaces locally. Lower contact is sharp with sulphide vein.							
						LT	GN	PH	CLY	4I	Py	1
						LT	GY					
						LT	BL					
118.70	119.23	0.53	GRD	MG	Sulphide vein host in altered granodiorie. Sulphide vein is preminantly pyrite but also has arsenopyrite as well as chalcopyrite and some trace galena. In the middle of this interval we have a small breciated zone with gouge (118.90 - 119.11 m). All sulphides are fresh, coarse grained and blebby in nature.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
119.23	129.39	10.16	GRD	CG	Altered granodiorite that is light grey, light green/ blue to white and light purple/ pink in coloration. The granodiorite has been variably altered over this interval with clay alteration occurring as white and as well as a light green/ blue. We also see potassic alteration in varying amounts giving it a light purple / pink hue. Potassic alteration is associated with both colorations of clay alteration. This unit has local trace hematite comin in along fracture surfaces. Pyrite is associated with the hematite alteration. We also have weak local chloritic alteration.							
129.39	129.81	0.42	GRD	CG	Two sulphide veins hosted in a altered granodiorite. Top of the interval is slightly gougy. 1st vein (129.64 - 129.72m) is made up of pyrite, sphalerie and trace amounts of galena. The second vein (129.76 - 129.81 m) is pyrite, galena and trace amounts of sphalerite.							
						LT	GY				Py	3.5
											Sp	0.5
											Gn	0.5
129.81	156.31	26.50	GRD	CG	Variable altered granodiorite. Light grey overall with light green / blue, light purple/ pink and dark green. In this unit we see clay alteration occurring as white and light green/ blue. In this interval its predominatly light green/ blue rather than the white. We also see potassic and chloritic alteration. After 146.26 m to approx 149 m we see a zone of low angle tca fracturing some infilled with minor gouge. At 141 m to 142.19 m there are a series of small pyrite veins (3). In addition to this pyrite we see disseminated pyrite as well as local clustering of pyrite. Local dark red/ purple hematite alteration in this interval.							
						MD	PU					
						MD	RD					
						LT	BL		CHL	2I		
						LT	GN	FR	HEM	1I		
						LT	GY	PH	CLY	4I	Py	0.1
156.31	156.61	0.30	GRD	CG	Small sulphide veins zone hosted in altered granodiorite. Predominantly black jack sphalerite but also pyrite and some galena and arsenopyrite. In this zone it is fractured and gougy. Veins are 2 mm to 2 cm wide.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.1
											As	0.5
											Py	1
						LT	GY	FR			Sp	2
156.61	160.31	3.70	GRD	CG	Light green/ blue to light grey altered granodiorite. The light green / blue is due to pervasive clay alteration and there is also minor darker green chloritic alteration. This unit has small mm wide pyrite and black jake sphalerite veins as well as disseminated pyrite. Pyrite - 0.5% overall and sphalerite is trace.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	BL		CHL	1I	Sp	0.01
						LT	GY					
160.31	162.09	1.78	GRD	CG	Faulted altered grandodiorite. This is a zone of granodiorite right before a sulphide vein zone. This unit is fractured with gouge along fracture surfaces. Gouge - 10%. This unit is clay altered with light green/ blue clay. Weak chlorite alteration in this unit spread throughout the unit.There is small local concentrations of pyrite, galena and sphalerite in this unit.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	GY	CR			Sp	0.01
						LT	BL	RB	CHL	1I	Gn	0.01
162.09	162.42	0.33	GRD	CG	Altered granodiorite after faulting and before sulphide veining. Light grey to light green/ blue color. Strong clay alteration.							
						LT	GY					
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL					
162.42	163.44	1.02	GRD	CG	Sulphide veins host in a altered granodiorite. The most predominantly sulpide is pyrite but we also have galena, sphalerite, and chalcopyrite. Veins 2 mm to 3 cm wide veins. 9 different sulphide veins in this interval. Pyrite is also disseminated in this interval.							
						LT	GN	PH	CLY	4I	Py	5
						LT	BL				Gn	0.1
						LT	GY				Sp	0.5
											Cp	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
163.44	168.64	5.20	GRD	CG	Light green / blue altered granodiorite. Strong pervasive clay alteration giving the core the light green / blue coloration. We also see weak patchy chlorite alteration. 10 cm gouge zone occurring at 167.71 - 167.81 m. Trace disseminated pyrite in this unit as well as pyrite coming in local clusters along fracture surfaces.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL		CHL	1I		
						LT	GY					
168.64	168.78	0.14	GRD	CG	Sulphide vein zone host in granodiorite - predominantly pyrite but we also have galena, arsenopyrite, sphalerite and chalcopyrite. There are 3 different veins. Veins are 3 mm wide to 1 cm wide.							
						MD	GY				Py	3
											Sp	0.2
											Cp	0.01
											As	0.2
168.78	172.30	3.52	GRD	CG	Light green/ blue to dark forest green and areas of light pink/ purple altered granodiorite. This unit is variably altered with strong clay alteration (light green / blue) up till approx. 169.85 m where we see more strong pervasive chloritic alteration coming in. In the more chloritic alteration we also see moderate potassic alteration. After 170.79 m to the end of the interval we see rubbled core. This unit has trace disseminated pyrite - at the start of the interval we see slightly higher concentrations of pyrite near the sulphide veins.							
						MD	PK					
						MD	PU					
						DK	GN		POT	3I		
						LT	BL		CHL	3I		
						LT	GN	PH	CLY	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
172.30	186.07	13.77	GRD	FG	A very different granodiorite than the above granodiorite possible a different aged? This granodiorite is fine grained and fairly fresh in comparison to the other granodiorite. The granodiorite is also dark grey in coloration with abundant dark to black biotite alteration. At the top of this interval there is abundant fracturing infilled with calcite. We also see chlorite alteration coming in along fracture surfaces in this unit. Locally we also see calcite along fracture surfaces as well as patchy hematite.							
								FR	HEM	1I		
						DK	GY	AN	CHL	2I		
186.07	186.27	0.20	GRD	FG	Sulphide vein zone host in granodiorite. The sulphide veins are made up of pyrite, sphalerite, arsenopyrite, and galena. All are blebby in texture and massive.							
						MD	GY				Py	5
											Sp	1.5
											Gn	0.3
											As	0.3
186.27	187.57	1.30	GRD	FG	Dark grey fine grained granodiorite with strong black biotite alteration. Fracture is occurring near the end of the interval that is infilled with calcite. The lower contact is faulted.							
						DK	GY	AN	CHL	1I		
187.57	198.63	11.06	GRD	FG	Dark grey to almost black, fine grained granodiorite (same as above). Black biotite is spread throughout this this interval. This zone is faulted and is predominantly rubble with some competent core in between. Rubble - 80% and competent core - 20%. Chlorite, calcite as well as patchy hematite is coming in along fracture sufaces. Predominantly chlorite. At the lower contact we see a 10 cm wide bleached halo before the sulphide veining.							
						DK	BL					
						MD	GY	AN				
						DK	GY					
198.63	198.83	0.20	GRD	FG	Sulphide veining host in granodiorite. 3 separate veins. Veins are 5 mm to 2 cm wide. Veins are predominatly galena and sphalerite with some pyrite. All sulphides are fresh and blebby.							
						LT	GY				Gn	2
											Sp	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	1
198.83	203.64	4.81	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. This unit is rubbled and faulted. It is predominatly rubble with some competent core inbetween. Rubble is 70% and competent core is 30%. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Local shearing zone where we lose the granodiorite texture at 202.35 to 202.69 m. Throughout this interal we see fracturing infilled with calcite.							
						MD	GY		HEM	1I		
						DK	GY	AN	CHL	2I		
203.64	208.07	4.43	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite. Slight bleaching at the lower contact with the sulphide veining.							
						MD	GY					
						DK	GY	AN	CHL	2I		
						LT	GY		HEM	1I		
208.07	208.54	0.47	GRD	FG	Sulphide veining host in granodiorite. 3 different sulphide veins The veins range in size from 2 cm to 3 cm wide. The first vein is predominantly black jack sphalerite with a small amount of pyrite. The second one is pyrite and the third one is galena along the outside with pyrite on the inside. All sulphides are fresh and blebby.							
						LT	GY				Py	4
											Sp	2
											Gn	0.5
208.54	213.33	4.79	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.							
						DK	GY					
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
213.33	213.49	0.16	GRD	FG	Sulphide vein host in a granodiorite. White quartz veining with weak carbonate alteration. On either side of the veining we see bleaching. The veins are on the mm scale and are comprised of pyrite, sphalerite and galena.							
						LT	GY				Py	0.5
											Sp	0.3
											Gn	0.1
213.49	228.80	15.31	GRD	FG	Dark grey to near black fine grained granodiorite with abundant black biotite throughout. There is also local bleaching making the core light grey in color. In these areas we see quartz veining coming in with some minor calcite alteration. Calcite is locally infilling fracture surfaces. Chlorite and patchy hematite alteration is occurring along fracture surfaces. Throughout this interal we see fracturing infilled with calcite.							
						DK	GY	AN	CHL	2I		
						LT	GY	FR				
						MD	GY					
228.80	228.85	0.05	GRD	FG	Small sulphide vein - 6 mm wide that is made up of honey brown spalerite as well as black jack spalerite as well as galena and some pyrite in the selvages of the vein.							
											Gn	0.5
											Py	0.5
						LT	GY				Sp	1
228.85	231.66	2.81	GRD	FG	Dark grey fine grained granodiorite with local bleached to light grey/ white. There is abundant fracture infilled with calcite alteration. Fractures have chloritic alteration.							
						MD	GY					
						DK	GY					
						LT	GY	AN				
231.66	232.43	0.77	GRD	FG	A series of small sulphide veins and at the end of the intveral there is a larger sulphide vein. Veins are 4 mm up to 2 cm wide. Veins are made up of sphalerite, pyrite and arsenopyrite. Sulphides are coarse grained, fresh and blebby.							
						LT	GY				Py	3
						DK	GY				Sp	1
											As	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
232.43	257.60	25.17	GRD	MG	Medium to dark grey granodiorite that is more medium grained vs fine grained. There is abundant black biotite throughout this interval. Locally this granodiorite is more altered. Predominantly its clay alteration that is white in color. We also see strong local chlorite alteration in lighter colored areas and the biotite is missing. Chlorite alteration is coming in along fracture surfaces. Calcite is infilling fracture surfaces throughout this unit. There are a few small sulphide veins situated in this interval - 240.15 - 240.17 m there is a white quartz vein with arsenopyrite along the selvage as well as some pyrite as well. 243.39 - 243.41 m - a white quartz vein with black jack sphalerite inside the vein as well as pyrite and galena. 249.86 - 249.89 m - small sulphite vein made up of pyrite and chalcopyrite. 254.81 - 254.90 m - small concentration of sulphides - black jake sphalerite and pyrite form a vein and then after the vein there is some disseminated pyrite.							
						DK	GY	AN	CHL	2I	Py	0.01
						MD	GY				Sp	0.01
						LT	GY				Gn	0.01
											Cp	0.01
257.60	257.64	0.04	GRD	FG	Small sulphide vein hosted in granodiorite. Vein is 2 cm wide. Vein is pyrite, galena and sphalerite. All are fresh, coarse grained and blebby.							
						LT	GY				Py	1.5
											Gn	0.5
											Sp	0.5
257.64	283.46	25.82	GRD	MG	Dark grey to black, medium grained to fine grained granodiorite. Chlorite occurring along fracture surfaces. As well as some calcite coming in along fracture surfaces. Local zones of bleaching due to this carbonate coming in. E.O.H.							
						LT	GY					
						MD	GY					
						DK	GY	AN	CHL	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.56	37	0.00	0	--	1H	6W	Overburden, residual soil.
1.52	3.05	1.53	0.78	51	0.00	0	--	1H	6W	Overburden, residual soil
3.05	4.57	1.52	0.87	57	0.15	10	--	1H	6W	Primarily overburden soil, one chunk of core (15cm)
4.57	6.10	1.53	1.28	84	0.00	0	--	1H	6W	Primarily resdidual soil, small chunks of core mixed in.
6.10	7.62	1.52	1.09	72	0.22	14	--	1H	6W	Primarily residual soil, one 22 cm piece of core.
7.62	9.14	1.52	0.73	48	0.00	0	--	1H	6W	Primarily residual soil.
9.14	10.67	1.53	0.87	57	0.00	0	--	1H	6W	Primarly residual soil
10.67	12.19	1.52	0.87	57	0.10	7	--	1H	6W	Primarily residual soil
12.19	13.71	1.52	1.08	71	0.00	0	--	1H	6W	Primarily residual soil\
13.71	15.24	1.53	1.06	69	0.22	14	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
15.24	16.76	1.52	1.13	74	0.00	0	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
16.76	18.29	1.53	0.79	52	0.21	14	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
18.29	19.81	1.52	1.14	75	0.00	0	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
19.81	21.34	1.53	1.16	76	0.23	15	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
21.34	22.86	1.52	1.23	81	0.12	8	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
22.86	24.38	1.52	1.42	93	0.00	0	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
24.38	25.91	1.53	1.38	90	0.00	0	--	1H	6W	Primarily residuial soil, beginning to see multiple small sections of hardrock.
25.91	27.43	1.52	1.4	92	0.00	0	--	1H	6W	Partially residual soil, partially hardrock.
27.43	30.48	3.05	1.86	61	0.37	12	--	1H	6W	Partially residual soil, partially hardrock.
30.48	32.00	1.52	0.71	47	0.00	0	--	1H	6W	All residual soil
32.00	33.53	1.53	1.16	76	0.33	22	--	1H	6W	Mostly residual soil, some hardrock.
33.53	35.05	1.52	1.27	84	0.11	7	--	1H	6W	Mostly residual soil, some hardrock.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
35.05	36.58	1.53	1.14	75	0.00	0	--	1H	6W	Mostly residual soil, some hardrock.
36.58	38.10	1.52	1.36	89	0.00	0	--	1H	6W	All residual soil
38.10	39.62	1.52	0.92	61	0.00	0	--	1H	6W	All residual soil
39.62	41.14	1.52	1.34	88	0.41	27	--	4H	1W	Mostly residual soil, small amounts of hard rock.
41.14	42.67	1.53	1.46	95	0.28	18	--	3H	6W	Hal;f residual soil, half hard rock.
42.67	44.20	1.53	1.31	86	0.00	0	--	1H	6W	All residual soil
44.20	45.72	1.52	1.17	77	0.00	0	--	2H	5W	
45.72	47.24	1.52	1.16	76	0.00	0	--	3H	4W	Some clay orange brown altered rock sections with very fractured and broken areas
47.24	48.77	1.53	1.14	75	0.00	0	--	2H	4W	Oxidized orange brown clay altered rock
48.77	50.29	1.52	1.22	80	0.00	0	--	3H	4W	
50.29	51.82	1.53	1.22	80	0.22	14	--	3H	4W	
51.82	53.34	1.52	1.26	83	0.20	13	--	3H	3W	
53.34	54.86	1.52	1.09	72	0.00	0	--	4H	4W	
54.86	56.38	1.52	1.39	91	0.19	13	--	4H	4W	No matching joint set, just one main joint with light beige brown to orange brown clay infill on surface
56.38	57.91	1.53	1.26	82	0.52	34	--	--	4W	No matching joints, just one noticeable joint measurement. Surface is black manganese oxide (pyrolusite?)
57.91	59.44	1.53	1.48	97	0.90	59	--	4H	3W	No matching joint. Joint surface is infilled with dark black manganese oxide and light cream to orange clay
59.44	60.66	1.22	1.22	100	0.91	75	--	4H	4W	
60.66	62.48	1.82	0.86	47	0.10	5	--	3H	4W	Rubble zone, some orange brown clay alteration
62.48	64.01	1.53	0.68	44	0.00	0	--	2H	5W	Rubble zone
64.01	67.05	3.04	2.3	76	0.13	4	--	2H	5W	Rubble zone, orange brown clay
67.05	70.10	3.05	2.49	82	0.75	25	--	2H	5W	Rubble zone
70.10	71.62	1.52	1.41	93	0.89	59	--	3H	3W	No matching joint, infill on joint surface is reddish orange brown oxide
71.62	74.67	3.05	2.6	85	1.26	41	--	3H	3W	joint surface reddish orange brown oxide infill

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
74.67	77.72	3.05	2.58	85	1.06	35	--	4H	2W	Some orange brown clay alteration. Joint surface has medium orange brown oxide infill.
77.72	79.25	1.53	1.46	95	0.44	29	--	4H	2W	
79.25	82.30	3.05	2.81	92	1.10	36	--	4H	1W	
82.30	85.34	3.04	2.89	95	1.31	43	--	3H	1W	Minor pyrite and chalcopyrite on some joint surfaces (50 degrees), reddish brown oxide infill on others (40 degrees)
85.34	88.39	3.05	2.98	98	1.50	49	--	4H	2W	Light reddish brown alteration haloes around joints and fractures
88.39	91.44	3.05	2.7	89	1.32	43	--	4H	3W	
91.44	94.49	3.05	2.83	93	2.30	75	--	4H	2W	
94.49	97.54	3.05	2.3	75	0.47	15	--	4H	3W	
97.54	100.58	3.04	2.6	86	1.58	52	--	4H	1W	
100.58	103.63	3.05	2.99	98	1.60	52	--	3H	1W	
103.63	106.68	3.05	2.85	93	2.02	66	--	4H	1W	
106.68	109.73	3.05	2.79	91	1.79	59	--	3H	1W	
109.73	112.78	3.05	2.82	92	2.22	73	--	4H	1W	
112.78	115.82	3.04	2.72	89	1.75	58	--	4H	2W	
115.82	118.87	3.05	2.56	84	0.84	28	--	3H	1W	
118.87	120.40	1.53	1.27	83	0.71	46	--	4H	2W	
120.40	123.44	3.04	2.79	92	2.10	69	--	4H	1W	
123.44	126.49	3.05	2.63	86	1.22	40	--	4H	1W	
126.49	129.54	3.05	2.78	91	1.42	47	--	3H	1W	
129.54	132.59	3.05	2.49	82	1.41	46	--	4H	2W	
132.59	135.64	3.05	2.94	96	2.68	88	--	4H	1W	
135.64	138.68	3.04	3.02	99	2.79	92	--	4H	1W	
138.68	141.73	3.05	2.9	95	2.46	81	--	3H	2W	
141.73	144.78	3.05	2.73	90	1.24	41	--	3H	1W	Black pyrite smear for 5 mm of clay joint.
144.78	147.83	3.05	2.54	83	0.98	32	--	3H	1W	pyrite fleks in joint
147.83	150.88	3.05	2.66	87	1.70	56	--	4H	1W	
150.88	153.92	3.04	2.89	95	1.93	63	--	4H	1W	
153.92	156.97	3.05	2.57	84	1.06	35	--	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
156.97	160.02	3.05	2.76	90	1.71	56	--	3H	1W	
160.02	163.07	3.05	2.45	80	0.60	20	--	4H	2W	Large pyrite crystals in joint
163.07	164.59	1.52	1.5	99	1.29	85	--	3H	1W	
164.59	167.64	3.05	2.94	96	2.24	73	--	3H	1W	
167.64	170.69	3.05	2.54	83	1.65	54	--	4H	1W	
170.69	173.74	3.05	2.29	75	0.34	11	--	3H	1W	
173.74	175.26	1.52	1.3	86	0.11	7	--	4H	1W	
175.26	178.31	3.05	2.51	82	0.88	29	--	3H	1W	
178.31	181.36	3.05	2.35	77	0.43	14	--	3H	2W	
181.36	184.40	3.04	2.55	84	1.43	47	--	4H	1W	
184.40	187.45	3.05	2.32	76	0.34	11	--	4H	1W	
187.45	188.98	1.53	1.26	82	0.48	31	--	4H	1W	
188.98	192.02	3.04	2.24	74	0.14	5	--	3H	2W	
192.02	193.55	1.53	1.08	71	0.00	0	--	3H	3W	
193.55	195.07	1.52	1.04	68	0.00	0	--	3H	3W	
195.07	198.12	3.05	3	98	0.70	23	--	3H	2W	
198.12	201.17	3.05	2.09	69	0.36	12	--	3H	1W	
201.17	202.69	1.52	1.2	79	0.12	8	--	2H	1W	
202.69	205.74	3.05	2.49	82	0.36	12	--	3H	2W	
205.74	208.79	3.05	2.66	87	0.22	7	--	3H	3W	
208.79	211.84	3.05	2.85	93	1.45	48	--	3H	2W	
211.84	214.88	3.04	2.85	94	1.33	44	--	3H	1W	
214.88	217.93	3.05	2.32	76	0.62	20	--	4H	1W	
217.93	220.98	3.05	2.49	82	1.16	38	--	4H	1W	
220.98	224.03	3.05	2.74	90	1.33	44	--	4H	2W	
224.03	227.08	3.05	2.86	94	2.06	68	--	4H	2W	
227.08	230.12	3.04	3.02	99	1.72	57	--	4H	1W	
230.12	233.17	3.05	2.82	92	1.46	48	--	4H	1W	Small pyrite + arseno quartz veins and grey clay fault gouge in run. No matching joint set
233.17	236.22	3.05	2.97	97	2.18	71	--	4H	1W	
236.22	239.27	3.05	2.94	96	1.90	62	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
239.27	242.32	3.05	2.88	94	1.53	50	--	3H	1W	Very thin veinlets of quartz on edge of joint surfaces
242.32	245.36	3.04	2.9	95	1.09	36	--	4H	1W	Grey clay fault gouge sections in run with small pyrite + sphalerite + arseno quartz vein
245.36	248.41	3.05	2.95	97	1.41	46	--	3H	1W	
248.41	251.46	3.05	2.99	98	1.82	60	--	3H	1W	
251.46	254.51	3.05	2.98	98	2.02	66	--	4H	1W	
254.51	257.56	3.05	2.75	90	1.86	61	--	4H	1W	Light grey clay infill on joint surfaces, possible small scale fault gouge?
257.56	260.60	3.04	2.96	97	1.42	47	--	3H	1W	Small ~4cm wide vein of pyrite + sphalerite mineralization near start of run with some light grey clay fault gouge on either side.
260.60	263.65	3.05	2.92	96	1.71	56	--	3H	1W	
263.65	266.70	3.05	3.01	99	1.33	44	--	3H	1W	
266.70	269.75	3.05	2.85	93	1.25	41	--	3H	1W	
269.75	272.80	3.05	2.03	67	1.33	44	--	3H	1W	Minor disseminated fine grained pyrite on joint surface
272.80	275.84	3.04	2.92	96	1.02	34	--	5H	1W	
275.84	278.89	3.05	2.71	89	0.55	18	--	4H	1W	
278.89	281.94	3.05	2.96	97	2.06	68	--	5H	1W	
281.94	283.46	1.52	1.38	91	0.42	28	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0.787	OVB	
2	13.69	OVB	
3	10.69	OVB	
4	13.62	OVB	
5	12.5	OVB	
6	13.14	OVB	
7	18.83	OVB	
8	1.705	OVB	
9	16.08	OVB	
10	9.068	OVB	
11	7.923	OVB	
12	17.57	OVB	
13	11.73	OVB	
14	10.94	OVB	
15	15.48	OVB	
16	2.432	OVB	
17	15.89	OVB	
18	17.68	OVB	
19	1.805	OVB	
20	21.11	OVB	
21	17.1	OVB	
22	16.77	OVB	
23	9.617	OVB	
24	1.45	OVB	
25	15.01	OVB	
26	2.02	OVB	
27	9.95	OVB	
28	18.06	OVB	
29	1.319	OVB	
30	1.187	OVB	
31	2.397	OVB	
32	12.52	OVB	
33	2.378	OVB	
34	14.62	OVB	
35	1.253	OVB	
36	1.253	OVB	
37	4.142	OVB	
38	0.772	OVB	
39	3.817	OVB	
40	16.74	OVB	
41	13.82	OVB	
42	20.38	OVB	
43	4.927	OVB	
44	0.389	GRD	
45	0.147	GRD	
46	0.193	GRD	
47	0.098	GRD	
48	0.198	GRD	
49	0.121	GRD	
50	1.821	GRD	
51	0.183	GRD	
52	0.415	GRD	
53	0.426	GRD	
54	0.246	GRD	
55	0.164	GRD	
56	0.223	GRD	
57	0.204	GRD	
58	0.297	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	0.304	GRD	
60	0.211	GRD	
61	0.255	GRD	
62	0.211	GRD	
63	0.04	GRD	
64	0.165	GRD	
65	0.317	GRD	
66	0.128	GRD	
67	0.284	GRD	
68	0.222	GRD	
69	0.108	GRD	
70	0.33	GRD	
71	0.316	GRD	
72	0.542	GRD	
73	0.234	GRD	
74	0.196	GRD	
75	0.457	GRD	
76	0.847	GRD	
77	2.221	GRD	
78	0.27	GRD	
79	0.36	GRD	
80	0.15	GRD	
81	0.276	GRD	
82	0.326	GRD	
83	0.123	GRD	
84	0.172	GRD	
85	3.664	GRD	
86	0.236	GRD	
87	0.46	GRD	
88	0.26	GRD	
89	0.241	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	0.684	GRD	
91	4.518	GRD	
92	0.814	GRD	
93	0.471	GRD	
94	0.295	GRD	
95	0.29	GRD	
96	0.14	GRD	
97	0.309	GRD	
98	0.964	GRD	
99	2.111	GRD	
100	0.54	GRD	
101	0.347	GRD	
102	0.468	GRD	
103	0.374	GRD	
104	6.592	GRD	
105	7.759	GRD	
106	30.27	GRD	
107	1.605	GRD	
108	2.62	GRD	
109	0.678	GRD	
110	0.4	GRD	
111	2.788	GRD	
112	0.687	GRD	
113	0.427	GRD	
114	0.344	GRD	
115	0.287	GRD	
116	0.185	QFP	
117	0.294	QFP	
118	0.169	GRD	
119	0.092	GRD	
120	0.772	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	0.383	GRD	
122	0.415	GRD	
123	0.235	GRD	
124	0.648	GRD	
125	0.472	GRD	
126	0.181	GRD	
127	0.686	GRD	
128	0.142	GRD	
129	0.164	GRD	
130	0.644	GRD	
131	0.286	GRD	
132	1.202	GRD	
133	0.258	GRD	
134	0.385	GRD	
135	0.322	GRD	
136	1.02	GRD	
137	2.716	GRD	
138	6.54	GRD	
139	0.406	GRD	
140	0.617	GRD	
141	0.305	GRD	
142	0.101	GRD	
143	0.128	GRD	
144	0.089	GRD	
145	0.218	GRD	
146	0.253	GRD	
147	0.327	GRD	
148	0.596	GRD	
149	0.429	GRD	
150	0.631	GRD	
151	0.374	GRD	
152	0.451	GRD	
153	0.156	GRD	
154	0.335	GRD	
155	0.103	GRD	
156	0.129	GRD	
157	0.479	GRD	
158	0.233	GRD	
159	0.345	GRD	
160	0.23	GRD	
161	0.264	GRD	
162	0.31	GRD	
163	0.277	GRD	
164	0.165	GRD	
165	0.25	GRD	
166	0.284	GRD	
167	0.354	GRD	
168	0.389	GRD	
169	0.296	GRD	
170	4.004	GRD	
171	1.069	GRD	
172	8.06	GRD	
173	32.59	GRD	
174	28.94	GRD	
175	41.68	GRD	
176	54.25	GRD	
177	15.24	GRD	
178	28.83	GRD	
179	27	GRD	
180	47.3	GRD	
181	33.58	GRD	
182	36.48	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	30.02	GRD	
184	20.32	GRD	
185	47.94	GRD	
186	7.263	GRD	
187	3.337	GRD	
188	27.32	GRD	
189	5.093	GRD	
190	1.729	GRD	
191	0.724	GRD	
192	16.51	GRD	
193	9.239	GRD	
194	6.681	GRD	
195	21.41	GRD	
196	7.535	GRD	
197	14.39	GRD	
198	25.34	GRD	
199	13.55	GRD	
200	33.37	GRD	
201	27.37	GRD	
202	49.4	GRD	
203	4.812	GRD	
204	11.07	GRD	
205	12.65	GRD	
206	9.145	GRD	
207	3.705	GRD	
208	1.504	GRD	
209	13.12	GRD	
210	0.806	GRD	
211	1.06	GRD	
212	30.49	GRD	
213	8.004	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
214	3.19	GRD	
215	0.627	GRD	
216	0.567	GRD	
217	1.216	GRD	
218	0.479	GRD	
219	0.899	GRD	
220	45.05	GRD	
221	48.95	GRD	
222	51.54	GRD	
223	49.24	GRD	
224	37.03	GRD	
225	42.95	GRD	
226	1.491	GRD	
227	21.64	GRD	
228	44.88	GRD	
229	28.79	GRD	
230	16.87	GRD	
231	22.28	GRD	
232	0.98	GRD	
233	37.69	GRD	
234	1.458	GRD	
235	44.34	GRD	
236	40.73	GRD	
237	46.03	GRD	
238	4.26	GRD	
239	20.43	GRD	
240	1.836	GRD	
241	22.57	GRD	
242	31.61	GRD	
243	32.85	GRD	
244	14.93	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
245	0.955	GRD	
246	5.321	GRD	
247	0.809	GRD	
248	6.514	GRD	
249	20.31	GRD	
250	32.1	GRD	
251	33.11	GRD	
252	19.09	GRD	
253	46.74	GRD	
254	21.88	GRD	
255	42.6	GRD	
256	2.967	GRD	
257	4.421	GRD	
258	42.6	GRD	
259	50.32	GRD	
260	43.77	GRD	
261	37.69	GRD	
262	46.06	GRD	
263	48.06	GRD	
264	43.17	GRD	
265	45.99	GRD	
266	38.4	GRD	
267	42.83	GRD	
268	47.19	GRD	
269	40.6	GRD	
270	37.21	GRD	
271	46.63	GRD	
272	48.26	GRD	
273	56.25	GRD	
274	64.4	GRD	
275	67.58	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
276	71.44	GRD	
277	60.62	GRD	
278	57.85	GRD	
279	57.39	GRD	
280	58.03	GRD	
281	59.08	GRD	
282	67.55	GRD	
283	70.21	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W594893	☐	20-025	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700706	☐	20-022	High Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594908	☐	20-025	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594867	☐	20-024	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594860	☐	20-024	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594847	☐	20-024	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594835	☐	20-023	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594814	☐	20-023	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594807	☐	20-023	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594914	☐	20-025	Low Grade	Klaza20 20-B	☐	☐	☐
53.36	54.86	1.50	GRD	1.18	79	W594801	☐	20-023	Low Grade		☐	☐	☐
54.86	55.86	1.00	GRD	0.95	95	W594802	☐	20-023	Low Grade		☐	☐	☐
55.86	57.36	1.50	GRD	1.42	95	W594803	☐	20-023	Low Grade		☐	☐	☐
57.36	58.36	1.00	GRD	0.94	94	W594804	☐	20-023	Low Grade		☐	☐	☐
58.36	59.86	1.50	GRD	1.34	89	W594805	☐	20-023	Low Grade		☐	☐	☐
59.86	61.36	1.50	GRD	1.31	87	W594806	☐	20-023	Low Grade		☐	☐	☐
61.36	62.86	1.50	GRD	0.53	35	W594808	☐	20-023	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
62.86	64.36	1.50	GRD	1.18	79	W594809	☐	20-023	Low Grade		☐	☐	☐
64.36	65.86	1.50	GRD	0.77	51	W594810	☐	20-023	Low Grade		☐	☐	☐
65.86	67.36	1.50	GRD	1.39	93	W594811	☐	20-023	Low Grade		☐	☐	☐
67.36	68.36	1.00	GRD	0.92	92	W594812	☐	20-023	Low Grade		☐	☐	☐
68.36	69.25	0.89	GRD	0.57	64	W594813	☐	20-023	Low Grade		☐	☐	☐
69.25	70.75	1.50	GRD, GRD	1.46	97	W594815	☐	20-023	Low Grade		☐	☐	☐
70.75	72.25	1.50	GRD	1.33	89	W594816	☐	20-023	Low Grade		☐	☐	☐
72.25	73.75	1.50	GRD	1.47	98	W594817	☐	20-023	Low Grade		☐	☐	☐
73.75	75.25	1.50	GRD	1.40	93	W594818	☐	20-023	Low Grade		☐	☐	☐
75.25	76.75	1.50	GRD	1.32	88	W594819	☐	20-023	Low Grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.40	93	W594820	☐	20-023	Low Grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.40	93	W594821	☐	20-023	Low Grade		☐	☐	☑
84.50	85.50	1.00	GRD	0.94	94	W594822	☐	20-023	Low Grade		☐	☐	☐
85.50	86.50	1.00	GRD	0.92	92	W594823	☐	20-023	Low Grade		☐	☐	☐
86.50	88.00	1.50	GRD	1.47	98	W594824	☐	20-023	Low Grade		☐	☐	☐
88.00	88.50	0.50	GRD	0.48	96	B700701	☐	20-022	High Grade		☐	☐	☐
88.50	90.00	1.50	GRD	1.46	97	W594825	☐	20-023	Low Grade		☐	☐	☐
90.00	91.50	1.50	GRD	1.41	94	W594826	☐	20-023	Low Grade		☐	☐	☐
91.50	92.50	1.00	GRD	0.98	98	W594827	☐	20-023	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
91.50	92.50	1.00	GRD	0.98	98	W594828	☐	20-023	Low Grade		☐	☑	☐
92.50	93.45	0.95	GRD	0.88	93	W594829	☐	20-023	Low Grade		☐	☐	☐
93.45	94.95	1.50	GRD	1.46	97	W594830	☐	20-023	Low Grade		☐	☐	☐
94.95	96.45	1.50	GRD	1.44	96	W594831	☐	20-023	Low Grade		☐	☐	☐
96.45	96.95	0.50	GRD	0.49	98	B700702	☐	20-022	High Grade		☐	☐	☐
96.95	98.45	1.50	GRD	1.38	92	W594832	☐	20-023	Low Grade		☐	☐	☐
98.45	100.00	1.55	GRD	1.49	96	W594833	☐	20-023	Low Grade		☐	☐	☐
100.00	101.50	1.50	GRD	1.45	97	W594834	☐	20-023	Low Grade		☐	☐	☐
101.50	103.00	1.50	GRD	1.37	91	W594836	☐	20-023	Low Grade		☐	☐	☐
103.00	104.50	1.50	GRD	1.46	97	W594837	☐	20-023	Low Grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.34	89	W594838	☐	20-023	Low Grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.46	97	W594839	☐	20-023	Low Grade		☐	☐	☐
113.50	114.50	1.00	GRD	1.00	100	W594840	☐	20-023	Low Grade		☐	☐	☐
114.50	115.54	1.04	GRD	0.95	91	W594841	☐	20-024	Low Grade		☐	☐	☐
115.54	116.50	0.96	QFP, GRD	0.79	82	W594842	☐	20-024	Low Grade		☐	☐	☐
116.50	117.65	1.15	QFP	1.08	94	W594843	☐	20-024	Low Grade		☐	☐	☐
117.65	118.70	1.05	QFP, GRD	0.96	91	W594844	☐	20-024	Low Grade		☐	☐	☐
118.70	119.25	0.55	GRD, GRD	0.50	91	B700703	☐	20-022	High Grade		☐	☐	☐
119.25	120.75	1.50	GRD	1.41	94	W594845	☐	20-024	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
120.75	122.25	1.50	GRD	1.47	98	W594846	☐	20-024	Low Grade		☐	☐	☐
122.25	123.75	1.50	GRD	1.44	96	W594848	☐	20-024	Low Grade		☐	☐	☐
123.75	125.25	1.50	GRD	1.42	95	W594849	☐	20-024	Low Grade		☐	☐	☐
125.25	126.25	1.00	GRD	1.00	100	W594850	☐	20-024	Low Grade		☐	☐	☐
126.25	127.30	1.05	GRD	1.03	98	B700704	☐	20-022	High Grade		☐	☐	☐
127.30	128.80	1.50	GRD	1.45	97	W594851	☐	20-024	Low Grade		☐	☐	☐
128.80	130.09	1.29	GRD	1.24	96	B700705	☐	20-022	High Grade		☐	☐	☐
130.09	131.60	1.51	GRD	1.39	92	W594852	☐	20-024	Low Grade		☐	☐	☐
130.09	131.60	1.51	GRD	1.39	92	W594853	☐	20-024	Low Grade		☐	☐	☑
131.60	133.10	1.50	GRD	1.50	100	W594854	☐	20-024	Low Grade		☐	☐	☐
133.10	134.60	1.50	GRD	1.42	95	W594855	☐	20-024	Low Grade		☐	☐	☐
134.60	136.10	1.50	GRD	1.48	99	W594856	☐	20-024	Low Grade		☐	☐	☐
136.10	137.60	1.50	GRD	1.47	98	W594857	☐	20-024	Low Grade		☐	☐	☐
137.60	139.10	1.50	GRD	1.49	99	W594858	☐	20-024	Low Grade		☐	☐	☐
139.10	140.60	1.50	GRD	1.48	99	W594859	☐	20-024	Low Grade		☐	☐	☐
140.60	142.00	1.40	GRD	1.33	95	W594861	☐	20-024	Low Grade		☐	☐	☐
142.00	143.00	1.00	GRD	0.92	92	B700707	☐	20-022	High Grade		☐	☐	☐
143.00	144.50	1.50	GRD	1.46	97	W594862	☐	20-024	Low Grade		☐	☐	☐
144.50	146.00	1.50	GRD	1.47	98	W594863	☐	20-024	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
146.00	147.50	1.50	GRD	1.41	94	W594864	☐	20-024	Low Grade		☐	☐	☐
147.50	149.00	1.50	GRD	1.43	95	W594865	☐	20-024	Low Grade		☐	☐	☐
149.00	150.50	1.50	GRD	1.39	93	W594866	☐	20-024	Low Grade		☐	☐	☐
150.50	152.00	1.50	GRD	1.46	97	W594868	☐	20-024	Low Grade		☐	☐	☐
152.00	153.50	1.50	GRD	1.45	97	W594869	☐	20-024	Low Grade		☐	☐	☐
153.50	155.00	1.50	GRD	1.43	95	W594870	☐	20-024	Low Grade		☐	☐	☐
155.00	156.00	1.00	GRD	0.86	86	W594871	☐	20-024	Low Grade		☐	☐	☐
155.00	156.00	1.00	GRD	0.86	86	W594872	☐	20-024	Low Grade		☐	☑	☐
156.00	157.00	1.00	GRD	1.00	100	W594873	☐	20-024	Low Grade		☐	☐	☐
157.00	158.50	1.50	GRD	1.45	97	W594874	☐	20-024	Low Grade		☐	☐	☐
158.50	160.00	1.50	GRD	1.43	95	W594875	☐	20-024	Low Grade		☐	☐	☐
160.00	161.50	1.50	GRD	1.42	95	W594876	☐	20-024	Low Grade		☐	☐	☐
161.50	162.40	0.90	GRD	0.86	96	W594877	☐	20-024	Low Grade		☐	☐	☐
162.40	163.00	0.60	GRD	0.56	93	B700708	☐	20-022	High Grade		☐	☐	☐
163.00	163.50	0.50	GRD	0.48	96	B700709	☐	20-022	High Grade		☐	☐	☐
163.50	165.00	1.50	GRD	1.42	95	W594878	☐	20-024	Low Grade		☐	☐	☐
165.00	166.50	1.50	GRD	1.41	94	W594879	☐	20-024	Low Grade		☐	☐	☐
166.50	168.00	1.50	GRD	1.41	94	W594880	☐	20-024	Low Grade		☐	☐	☐
168.00	169.00	1.00	GRD	0.97	97	B700710	☐	20-022	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
169.00	170.50	1.50	GRD	1.42	95	W594881	☐	20-025	Low Grade		☐	☐	☐
170.50	171.40	0.90	GRD	0.65	72	W594882	☐	20-025	Low Grade		☐	☐	☐
171.40	172.30	0.90	GRD	0.90	100	W594883	☐	20-025	Low Grade		☐	☐	☐
184.40	185.80	1.40	GRD	1.24	89	W594884	☐	20-025	Low Grade		☐	☐	☐
185.80	186.30	0.50	GRD	0.46	92	B700711	☐	20-022	High Grade		☐	☐	☐
186.30	187.30	1.00	GRD	0.84	84	W594885	☐	20-025	Low Grade		☐	☐	☐
195.90	197.40	1.50	GRD	1.46	97	W594886	☐	20-025	Low Grade		☐	☐	☐
195.90	197.40	1.50	GRD	1.46	97	W594887	☐	20-025	Low Grade		☐	☐	☑
197.40	198.00	0.60	GRD	0.48	80	B700712	☐	20-022	High Grade		☐	☐	☐
197.40	198.00	0.60	GRD	0.48	80	B700713	☐	20-022	High Grade		☐	☑	☐
198.00	199.50	1.50	GRD	1.36	91	W594888	☐	20-025	Low Grade		☐	☐	☐
206.45	207.95	1.50	GRD	1.41	94	W594889	☐	20-025	Low Grade		☐	☐	☐
207.95	208.50	0.55	GRD	0.52	95	B700714	☐	20-022	High Grade		☐	☐	☐
208.50	210.00	1.50	GRD	1.48	99	W594890	☐	20-025	Low Grade		☐	☐	☐
210.00	211.50	1.50	GRD	1.46	97	W594891	☐	20-025	Low Grade		☐	☐	☐
211.50	213.00	1.50	GRD	1.47	98	W594892	☐	20-025	Low Grade		☐	☐	☐
213.00	213.60	0.60	GRD	0.59	98	W594894	☐	20-025	Low Grade		☐	☐	☐
213.60	215.10	1.50	GRD	1.30	87	W594895	☐	20-025	Low Grade		☐	☐	☐
222.70	224.20	1.50	GRD	1.50	100	W594896	☐	20-025	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
224.20	224.70	0.50	GRD	0.48	96	W594897	☐	20-025	Low Grade		☐	☐	☐
224.70	225.20	0.50	GRD	0.48	96	W594898	☐	20-025	Low Grade		☐	☐	☐
225.20	226.00	0.80	GRD	0.80	100	W594899	☐	20-025	Low Grade		☐	☐	☐
225.20	226.00	0.80	GRD	0.80	100	W594900	☐	20-025	Low Grade		☐	☑	☐
226.00	227.10	1.10	GRD	1.00	91	W594901	☐	20-025	Low Grade		☐	☐	☐
227.10	228.60	1.50	GRD	1.44	96	W594902	☐	20-025	Low Grade		☐	☐	☐
228.60	229.10	0.50	GRD	0.49	98	W594903	☐	20-025	Low Grade		☐	☐	☐
229.10	230.60	1.50	GRD	1.38	92	W594904	☐	20-025	Low Grade		☐	☐	☐
230.60	231.60	1.00	GRD	0.97	97	W594905	☐	20-025	Low Grade		☐	☐	☐
231.60	232.10	0.50	GRD	0.48	96	B700715	☐	20-022	High Grade		☐	☐	☐
232.10	232.60	0.50	GRD	0.49	98	B700716	☐	20-022	High Grade		☐	☐	☐
232.60	234.10	1.50	GRD	1.46	97	W594906	☐	20-025	Low Grade		☐	☐	☐
237.25	238.75	1.50	GRD	1.46	97	W594907	☐	20-025	Low Grade		☐	☐	☐
238.75	240.25	1.50	GRD	1.45	97	W594909	☐	20-025	Low Grade		☐	☐	☐
240.25	241.75	1.50	GRD	1.43	95	W594910	☐	20-025	Low Grade		☐	☐	☐
241.75	242.70	0.95	GRD	0.92	97	W594911	☐	20-025	Low Grade		☐	☐	☐
242.70	244.20	1.50	GRD	1.45	97	W594912	☐	20-025	Low Grade		☐	☐	☐
244.20	244.70	0.50	GRD	0.48	96	W594913	☐	20-025	Low Grade		☐	☐	☐
244.70	246.20	1.50	GRD	1.38	92	W594915	☐	20-025	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
246.20	247.20	1.00	GRD	0.94	94	W594916	☐	20-025	Low Grade		☐	☐	☐
247.20	248.70	1.50	GRD	1.46	97	W594917	☐	20-025	Low Grade		☐	☐	☐
248.70	249.20	0.50	GRD	0.48	96	W594918	☐	20-025	Low Grade		☐	☐	☐
249.20	250.70	1.50	GRD	1.43	95	W594919	☐	20-025	Low Grade		☐	☐	☐
253.20	254.70	1.50	GRD	1.46	97	W594920	☐	20-025	Low Grade		☐	☐	☐
254.70	255.30	0.60	GRD	0.58	97	W594921	☐	20-026	Low Grade		☐	☐	☐
255.30	256.42	1.12	GRD	1.12	100	W594922	☐	20-026	Low Grade		☐	☐	☐
256.42	257.30	0.88	GRD	0.84	95	W594923	☐	20-026	Low Grade		☐	☐	☐
257.30	257.92	0.62	GRD	0.62	100	B700717	☐	20-022	High Grade		☐	☐	☐
257.92	259.20	1.28	GRD	1.28	100	W594924	☐	20-026	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-022	B700706	0.00	0.00	0.02	50	☐	☐	☑	☐	
20-023	W594807	0.00	0.00	0.00	40	☐	☐	☑	☐	
20-023	W594814	0.00	0.00	0.64	220	☐	☐	☐	☑ Klaza2020-A	
20-023	W594835	0.00	0.00	2.94	900	☐	☐	☐	☑ Klaza2020-B	
20-024	W594847	0.00	0.00	0.61	170	☐	☐	☐	☑ Klaza2020-A	
20-024	W594860	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-024	W594867	0.00	0.00	2.91	820	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-025	W594893	0.00	0.00	0.00	20	☐	☐	☑	☐	
20-025	W594908	0.00	0.00	0.64	210	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-025	W594914	0.00	0.00	2.86	860	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-023	W594801	53.36	54.86	0.01	1710	☐	☐	☐	☐	
20-023	W594802	54.86	55.86	0.01	2230	☐	☐	☐	☐	
20-023	W594803	55.86	57.36	0.01	1060	☐	☐	☐	☐	
20-023	W594804	57.36	58.36	0.01	2400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-023	W594805	58.36	59.86	0.03	2330	☐	☐	☐	☐	
20-023	W594806	59.86	61.36	0.04	1560	☐	☐	☐	☐	
20-023	W594808	61.36	62.86	0.01	3150	☐	☐	☐	☐	
20-023	W594809	62.86	64.36	0.03	1690	☐	☐	☐	☐	
20-023	W594810	64.36	65.86	0.05	4370	☐	☐	☐	☐	
20-023	W594811	65.86	67.36	0.02	3290	☐	☐	☐	☐	
20-023	W594812	67.36	68.36	0.29	1520	☐	☐	☐	☐	
20-023	W594813	68.36	69.25	0.10	2790	☐	☐	☐	☐	
20-023	W594815	69.25	70.75	0.04	910	☐	☐	☐	☐	
20-023	W594816	70.75	72.25	0.03	630	☐	☐	☐	☐	
20-023	W594817	72.25	73.75	0.02	2230	☐	☐	☐	☐	
20-023	W594818	73.75	75.25	0.03	2750	☐	☐	☐	☐	
20-023	W594819	75.25	76.75	0.01	2360	☐	☐	☐	☐	
20-023	W594820	83.00	84.50	0.02	2130	☐	☐	☐	☐	
20-023	W594821	83.00	84.50	0.02	2150	☐	☑	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-023	W594822	84.50	85.50	0.01	2920	☐	☐	☐	☐	
20-023	W594823	85.50	86.50	0.02	2940	☐	☐	☐	☐	
20-023	W594824	86.50	88.00	0.01	530	☐	☐	☐	☐	
20-022	B700701	88.00	88.50	1.49	260	☐	☐	☐	☐	
20-023	W594825	88.50	90.00	0.01	260	☐	☐	☐	☐	
20-023	W594826	90.00	91.50	0.02	1960	☐	☐	☐	☐	
20-023	W594827	91.50	92.50	0.02	2550	☐	☐	☐	☐	
20-023	W594828	91.50	92.50	0.03	2340	☑	☐	☐	☐	
20-023	W594829	92.50	93.45	0.01	2280	☐	☐	☐	☐	
20-023	W594830	93.45	94.95	0.04	1900	☐	☐	☐	☐	
20-023	W594831	94.95	96.45	0.03	1500	☐	☐	☐	☐	
20-022	B700702	96.45	96.95	0.14	260	☐	☐	☐	☐	
20-023	W594832	96.95	98.45	0.02	2280	☐	☐	☐	☐	
20-023	W594833	98.45	100.00	0.00	2100	☐	☐	☐	☐	
20-023	W594834	100.00	101.50	0.02	2040	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-023	W594836	101.50	103.00	0.01	3150	☐	☐	☐	☐	
20-023	W594837	103.00	104.50	0.01	2600	☐	☐	☐	☐	
20-023	W594838	110.50	112.00	0.04	2670	☐	☐	☐	☐	
20-023	W594839	112.00	113.50	0.02	2280	☐	☐	☐	☐	
20-023	W594840	113.50	114.50	0.01	2530	☐	☐	☐	☐	
20-024	W594841	114.50	115.54	0.12	620	☐	☐	☐	☐	
20-024	W594842	115.54	116.50	0.01	460	☐	☐	☐	☐	
20-024	W594843	116.50	117.65	0.03	1950	☐	☐	☐	☐	
20-024	W594844	117.65	118.70	0.31	300	☐	☐	☐	☐	
20-022	B700703	118.70	119.25	4.50	30	☐	☐	☐	☐	
20-024	W594845	119.25	120.75	0.02	1770	☐	☐	☐	☐	
20-024	W594846	120.75	122.25	0.01	3630	☐	☐	☐	☐	
20-024	W594848	122.25	123.75	0.02	770	☐	☐	☐	☐	
20-024	W594849	123.75	125.25	0.03	560	☐	☐	☐	☐	
20-024	W594850	125.25	126.25	0.08	540	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-022	B700704	126.25	127.30	0.16	750	☐	☐	☐	☐	
20-024	W594851	127.30	128.80	0.05	150	☐	☐	☐	☐	
20-022	B700705	128.80	130.09	2.37	140	☐	☐	☐	☐	
20-024	W594852	130.09	131.60	0.02	1370	☐	☐	☐	☐	
20-024	W594853	130.09	131.60	0.02	1320	☐	☑	☐	☐	
20-024	W594854	131.60	133.10	0.01	3100	☐	☐	☐	☐	
20-024	W594855	133.10	134.60	0.05	1690	☐	☐	☐	☐	
20-024	W594856	134.60	136.10	0.04	2450	☐	☐	☐	☐	
20-024	W594857	136.10	137.60	0.01	2940	☐	☐	☐	☐	
20-024	W594858	137.60	139.10	0.01	2680	☐	☐	☐	☐	
20-024	W594859	139.10	140.60	0.03	1790	☐	☐	☐	☐	
20-024	W594861	140.60	142.00	0.05	1010	☐	☐	☐	☐	
20-022	B700707	142.00	143.00	0.25	340	☐	☐	☐	☐	
20-024	W594862	143.00	144.50	0.03	1060	☐	☐	☐	☐	
20-024	W594863	144.50	146.00	0.04	680	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-024	W594864	146.00	147.50	0.03	1780	☐	☐	☐	☐	
20-024	W594865	147.50	149.00	0.02	2170	☐	☐	☐	☐	
20-024	W594866	149.00	150.50	0.02	1630	☐	☐	☐	☐	
20-024	W594868	150.50	152.00	0.05	1650	☐	☐	☐	☐	
20-024	W594869	152.00	153.50	0.04	2460	☐	☐	☐	☐	
20-024	W594870	153.50	155.00	0.06	280	☐	☐	☐	☐	
20-024	W594871	155.00	156.00	0.39	1850	☐	☐	☐	☐	
20-024	W594872	155.00	156.00	0.54	1400	☑	☐	☐	☐	1/4 duplicate
20-024	W594873	156.00	157.00	0.47	730	☐	☐	☐	☐	
20-024	W594874	157.00	158.50	0.04	1090	☐	☐	☐	☐	
20-024	W594875	158.50	160.00	0.03	1080	☐	☐	☐	☐	
20-024	W594876	160.00	161.50	0.12	510	☐	☐	☐	☐	
20-024	W594877	161.50	162.40	0.07	800	☐	☐	☐	☐	
20-022	B700708	162.40	163.00	0.79	140	☐	☐	☐	☐	
20-022	B700709	163.00	163.50	2.32	60	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-024	W594878	163.50	165.00	0.09	920	☐	☐	☐	☐	
20-024	W594879	165.00	166.50	0.11	1310	☐	☐	☐	☐	
20-024	W594880	166.50	168.00	0.07	1370	☐	☐	☐	☐	
20-022	B700710	168.00	169.00	0.51	200	☐	☐	☐	☐	
20-025	W594881	169.00	170.50	0.02	2070	☐	☐	☐	☐	
20-025	W594882	170.50	171.40	0.04	2130	☐	☐	☐	☐	
20-025	W594883	171.40	172.30	0.03	2370	☐	☐	☐	☐	
20-025	W594884	184.40	185.80	0.01	1560	☐	☐	☐	☐	
20-022	B700711	185.80	186.30	1.77	200	☐	☐	☐	☐	
20-025	W594885	186.30	187.30	0.01	1350	☐	☐	☐	☐	
20-025	W594886	195.90	197.40	0.00	1600	☐	☐	☐	☐	
20-025	W594887	195.90	197.40	0.00	1590	☐	☑	☐	☐	Coarse Duplicate
20-022	B700712	197.40	198.00	0.16	670	☐	☐	☐	☐	
20-022	B700713	197.40	198.00	0.20	710	☑	☐	☐	☐	
20-025	W594888	198.00	199.50	0.00	1160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-025	W594889	206.45	207.95	0.00	1190	☐	☐	☐	☐	
20-022	B700714	207.95	208.50	1.04	110	☐	☐	☐	☐	
20-025	W594890	208.50	210.00	0.00	1410	☐	☐	☐	☐	
20-025	W594891	210.00	211.50	0.00	1220	☐	☐	☐	☐	
20-025	W594892	211.50	213.00	0.01	1320	☐	☐	☐	☐	
20-025	W594894	213.00	213.60	0.08	1160	☐	☐	☐	☐	
20-025	W594895	213.60	215.10	0.01	1590	☐	☐	☐	☐	
20-025	W594896	222.70	224.20	0.01	1890	☐	☐	☐	☐	
20-025	W594897	224.20	224.70	0.05	1590	☐	☐	☐	☐	
20-025	W594898	224.70	225.20	0.00	1790	☐	☐	☐	☐	
20-025	W594899	225.20	226.00	0.04	1080	☐	☐	☐	☐	
20-025	W594900	225.20	226.00	0.03	620	☑	☐	☐	☐	
20-025	W594901	226.00	227.10	0.00	1670	☐	☐	☐	☐	
20-025	W594902	227.10	228.60	0.01	1830	☐	☐	☐	☐	
20-025	W594903	228.60	229.10	0.12	1310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-025	W594904	229.10	230.60	0.00	1800	☐	☐	☐	☐	
20-025	W594905	230.60	231.60	0.00	1440	☐	☐	☐	☐	
20-022	B700715	231.60	232.10	0.47	270	☐	☐	☐	☐	
20-022	B700716	232.10	232.60	0.92	610	☐	☐	☐	☐	
20-025	W594906	232.60	234.10	0.10	1180	☐	☐	☐	☐	
20-025	W594907	237.25	238.75	0.01	1360	☐	☐	☐	☐	
20-025	W594909	238.75	240.25	0.06	1460	☐	☐	☐	☐	
20-025	W594910	240.25	241.75	0.00	1450	☐	☐	☐	☐	
20-025	W594911	241.75	242.70	0.00	1410	☐	☐	☐	☐	
20-025	W594912	242.70	244.20	0.01	1390	☐	☐	☐	☐	
20-025	W594913	244.20	244.70	0.08	1100	☐	☐	☐	☐	
20-025	W594915	244.70	246.20	0.00	1050	☐	☐	☐	☐	
20-025	W594916	246.20	247.20	0.01	900	☐	☐	☐	☐	
20-025	W594917	247.20	248.70	0.00	920	☐	☐	☐	☐	
20-025	W594918	248.70	249.20	0.01	1190	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-025	W594919	249.20	250.70	0.00	1410	☐	☐	☐	☐	
20-025	W594920	253.20	254.70	0.00	1290	☐	☐	☐	☐	
20-026	W594921	254.70	255.30	0.03	1190	☐	☐	☐	☐	
20-026	W594922	255.30	256.42	0.01	1090	☐	☐	☐	☐	
20-026	W594923	256.42	257.30	0.00	1230	☐	☐	☐	☐	
20-022	B700717	257.30	257.92	0.83	240	☐	☐	☐	☐	
20-026	W594924	257.92	259.20	0.00	1210	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
43.17	57.70	FT	42	-	NUL	1	Fault zone - Rubble - 75%, Gouge - 10% and Competent core - 15%. There is pervasive limonite alteration in this interval.			
54.94	55.18	FR	5	10	NUL	1	Fracture running sub-parallel tca. There is 6 mm of fracture fill in this fracture made up of clay and small bits of broken wall rock material. Along this fracture surface we also see MnOx coming in along this fracture.			
60.69	69.25	FT	42	60	NUL	1	Fault zone with rubble and minor gouge. Fault is pervasively limonite altered. In the gouge we have trace pyrite.			
								Py	0.01	DI
75.00	75.65	FT	42	40	NUL	1	Fault zone with rubble and minor gouge. In this zone we have pervasive limonite alteration.			
79.08	79.91	FT	42	40	NUL	1	Small fault zone with some minor rubble and and gouge.			
82.77	82.82	VT	37	55	NUL	1	Small carbonate veinlet with some weak limonite alteration along it.			
88.05	88.07	VT	37	90	NUL	1	Sulphide vein - pyrite, arsenopyrite, and sphalerite.			
								Py	3	BL
								As	1	BL
								Sp	0.1	BL
88.37	88.41	VT	37	90	NUL	1	Sulphide vein - pyrite.			
								Py	3	BL
95.28	96.19	FT	42	-	NUL	1	Small fault zone with rubble and gouge. Rubble is 70% and gouge is - 30%.			
96.66	96.76	VT	37	85	NUL	1	Small sulphide veinlet - pyrite.			
								Py	3	BL
98.56	98.69	VT	37	30	NUL	1	2 small calcite veinlets occurring together one is light pink in color and the other is white. Both are approx 1 cm wide.			
115.30	115.56	BX	34	90	NUL	1	Small zone of breccia right before the dyke.			
115.62	117.64	DY	37	70	NUL	1	qfp dyke			
117.64	117.70	VN	37	70	NUL	1	silica flooding / vein with Py +- Aspy			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
118.68	118.93	VN	37	77	NUL	1	qtz py aspy vein, minor cpy			
118.93	119.08	FT	42	30	NUL	1	mineralized fault, brecciated and faulted vein material			
119.08	119.20	VN	37	77	NUL	1	qtz py aspy vein w minor cpy			
120.00	121.00	FR	5	7	NUL	1	small hematite fracture			
	120.01	VT	37	55	NUL	1	small siderite? Qtz veinlet			
120.46	120.52	VN	37	80	NUL	1	sheared vein, bound by gougy bits on either side, sheared texture within vein, doninantly py, but hard to tell sulphides due to sheared and fine grained nature			
120.50	120.51	FR	5	75	NUL	1	dark silica alteration around small clay carboante fracture			
121.50	121.60	VN	37	50	NUL	1	aplite vein greyish red buff fine grained siliceous			
125.90	129.93	VN	37	80	NUL	1	py veinlet with dark gougy section on footwall side			
129.54	129.64	FT	42	80	NUL	1	clay rich gougy bit minor sulphides in matrix and in clasts fragments			
129.64	129.72	VN	37	85	NUL	1	py sphal aspy vein			
129.85	129.89	VN	37	80	NUL	1	py gal sphal vein			
133.90	133.94	VN	37	88	NUL	1	py qtz siderite rhodochrosite vein			
141.00	141.21	VT	37	40	NUL	3	bands of py, >1cm wide each, maybe aspy as well			
141.21	141.41	FT	42	40	NUL	1	brecciated rubbly gouge interval with minor disseminated py			
142.14	142.18	VN	37	88	NUL	1	qtz py band/vein, some sheared texture			
143.27	143.29	SH	81	45	NUL	1	sheared altered grd and some sulphide and quartz, also sheared and fractured			
145.37	145.38	SH	81	30	NUL	1	sheared grd, minor py			
153.70	153.74	SH	81	20	NUL	1	gougy sheared interval			
155.00	155.03	FR	5	75	NUL	1	fractured weakly mineralized vein			
156.31	156.61	BX	34	25	NUL	1	brecciated sheared vein and host rock interval with some sulphide intervals containing py and sphal			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
162.42	162.43	VT	37	70	NUL	1	py sphal gal veinlet stringer			
162.75	163.44	VN	37	78	NUL	7	veinlet swarm, between 1 - 10 cm each, py spal gal aspy cpy			
165.95	165.97	VT	37	80	NUL	1	rhodochrosite py sphal veinlet			
167.75	167.86	FT	42	60	NUL	1	clast supported fault, gouge but rubbly. Attitude not well measured			
168.70	168.77	VN	37	73	NUL	1	qtz and py with lesser sphal gal and aspy, minor cpy			
186.07	186.23	VN	37	80	NUL	1	well mineralized vein w py sphal gal aspy and minor cpy, generally coarse grained sulphides. Vein walls mainly py, other sulphides localized to central 4cm of vein			
197.70	197.88	VN	37	78	NUL	2	two veins with a faulted sheared interval in the middle. Dominantly gal and sphal, lesser py			
202.33	202.69	SH	81	40	NUL	1	sheared fine grained grd, weakly altered			
208.10	208.30	VN	37	70	NUL	1	two well mineralized Sphal gal py veins on either side of a sheared fractured rubbly section			
208.35	208.50	SH	81	75	NUL	1	sheared interval, lithified sheared carbonates, minor euhedral disseminated gal and py in gouge			
213.33	213.49	VN	37	87	NUL	1	sheared interval with carbonate veins and lesser sulphides, py sphal gal			
217.15	217.17	VT	37	68	NUL	1	small weak shear with some qtz alteration and very minor sulphides			
224.32	224.51	VT	37	85	NUL	3	small >1c well mineralized veinlets, mostly py sphal			
225.41	225.46	SH	81	32	NUL	2	small shears bounding altered grd, some carbonate veins with similar orientation and trace sulphides			
228.82	228.83	VT	37	72	NUL	1	small sphal gal py veinlet			
231.70	231.23	VT	37	75	NUL	3	small >1cm veinelts associated with small shears of similar orientation. Veinlets well mineralized with Sphal aspy py and gal			
232.37	232.42	VN	37	80	NUL	1	Py and aspy qtz vein, well mineralized interval, with lesser sphal			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
233.44	233.81	VT	37	65	NUL	4	small moderately mineralized qtz veins with some sulphides and associated shears of similar orientations. Cherty-calcedonic light grey qtz in veins			
249.86	249.89	VN	37	75	NUL	1	qtz ankerite py cpy vein with trace gn			
257.60	257.64	VT	37	80	NUL	1	veinlet bound by weakly sheared grd on either side			
278.35	278.50	SH	81	60	NUL	1	sheared altered grd wirg weak carbonate alteration and trace sulphides in small qtz veinlets of same orientation			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382388	6884807	1285	306.32

ZONE: Rusk

SECTION:

HOLE: KL -20-478

CLAIM: YA78055

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 4.57m, Out

Drilling Dates: Sep 13 - Sep 18, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.73	0.73	CAS
0.73	3.85	3.12	OVB
3.85	7.62	3.77	VOL
7.62	17	9.38	VOL
17	32	15	VOL
32	37	5	VOL
37	57	20	VOL
57	103.63	46.63	VOL
103.63	108.6	4.97	FLR
108.6	120.73	12.13	VOL
120.73	159.73	39	VOL
159.73	182	22.27	VOL
182	227.77	45.77	VOL
227.77	229.25	1.48	QFP
229.25	237.6	8.35	VOL
237.6	239.9	2.3	BXA

SAMPLES	
Numbers:	B700502 to B700509, W599891 to W599983
Total:	101
Batch:	011, 021, 028, 029
Certificates:	WH20215134, WH20224721, WH20224754, WH20224817

COMMENTS

Dominantly relithified fault.
Handheld GPS accuracy of 3.0m

239.9	240.55	0.65	BXA
240.55	246.8	6.25	VOL
246.8	247.5	0.7	FLR
247.5	274.15	26.65	BXA
274.15	275.9	1.75	VOL
275.9	282.4	6.5	BXA
282.4	294	11.6	FLR
294	306.32	12.32	VOL

Box Log

KL -20-478

Klaza
Rusk Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.73	3.85
2	3.85	6.1
3	6.1	8.3
4	8.3	11.07
5	11.07	13.73
6	13.73	16.44
7	16.44	18.86
8	18.86	21.86
9	21.86	24.8
10	24.8	27.42
11	27.42	29.93
12	29.93	32.51
13	32.51	35.28
14	35.28	37.87
15	37.87	40.84
16	40.84	44.78
17	44.78	49.07
18	49.07	53.26
19	53.26	57.55
20	57.55	62.21
21	62.21	65.33
22	65.33	69.47
23	69.47	73.69
24	73.69	77.89
25	77.89	81.92
26	81.92	86.17
27	86.17	90.24
28	90.24	93.88
29	93.88	97.92
30	97.92	101.63
31	101.63	105.47
32	105.47	108.3
33	108.3	112.49
34	112.49	116.8
35	116.8	120.73
36	120.73	124.98
37	124.98	129.33
38	129.33	133.27
39	133.27	137.41
40	137.41	141.39
41	141.39	144.87
42	144.87	148.68
43	148.68	152.07
44	152.07	154.92
45	154.92	158.62
46	158.62	162.3
47	162.3	165.51
48	165.51	169.61
49	169.61	173.68
50	173.68	176.71
51	176.71	179.81
52	179.81	183.82
53	183.82	187.36
54	187.36	190.95
55	190.95	194.82
56	194.82	199.91
57	199.91	202.91
58	202.91	206.83
59	206.83	210.71
60	210.71	214.72
61	214.72	219
62	219	222.82
63	222.82	226.81
64	226.81	230.96
65	230.96	235.24
66	235.24	239.46
67	239.46	243.56
68	243.56	247.52
69	247.52	250.49
70	250.49	253.76
71	253.76	257.26
72	257.26	260.66
73	260.66	264.2
74	264.2	267.74
75	267.74	271.64
76	271.64	275.84
77	275.84	279.31
78	279.31	283.19
79	283.19	286.87
80	286.87	290.57
81	290.57	294.36
82	294.36	298.26
83	298.26	302.22
84	302.22	306.32

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-478									
	14.97	14	HTW	VOL	1555.7	936.5	2.89	2.5	Clay altered volcanic
	33.81	13.6	NTW	VOL	1350.4	846.2	3.51	2.7	Intermediate volcanic
	54.78	15.1	NTW	VOL	1010	634	2.37	2.7	Intermediate volcanics
	82.66	17.1	NTW	VOL	1074.2	662.7	2.22	2.6	weakly clay-sericite altered and silica flooded brecciated intermediate volcanics
	102.4	12.1	NTW	VOL	789	494.3	2.31	2.7	pervasive moderately clay sericite altered fine grained volcanics
	127	18	NTW	VOL	1167.7	729.9	2.29	2.7	pervasive clay altered but moderately silica flooded fine grained intermediate volcanics
	157.23	18	NTW	VOL	1199.9	745.4	2.36	2.6	Minor pyrite and elongated prismatic silvery metallic mineral on joint surface of silicified volcanic. Minor clay and hematite alteration
	170.04	17	NTW	VOL	1746.7	941.2	3.63	2.2	Silicified volcanic with infilled fractures of pyrite and hematite with minor amounts of galena and black sphalerite (?)
	239.05	17	NTW	BXA	1183	758.8	2.46	2.8	black breccia with minor clay-sericite altered intermediate volcanic clasts, matrix supported. Black matrix possibly tourmaline(?). Minor stringers and disseminated py.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
-99.00	-99.00	0.00	FLR	MG	Tectonically brecciated and sheared medium grained intermediate volcanics, pervasive moderate silica-clay-sericite altered. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge.							
						MD	GY	FR	CLY	2I		
						LT	GY	PA	CLY	1I		
						LT	GN	MA	SER	2I		
						LT	GY	FR	SER	1I		
						LT	GN	CR	CLY	2I		
						LT	GN	CR	SER	1I		
						LT	GY	CR	CLY	3I		
						LT	PK	CR	CLY	2I	Py	0.5
						LT	GY	BX	SIL	1I		
						LT	GN		HEM	1I		
						LT	BF		SER	1I		
						LT	GY		SIL	1I		
						LT	BF		SER	2I		
						LT	BF		SIL	1I		
						LT	BF		HEM	2I		
									HEM	1I		
									HEM	1I		
0.00	0.73	0.73	CAS	--	casing							
0.73	3.85	3.12	OVB	--	overburden							
3.85	6.80	2.95	VOL	MG	highly broken and blocky							
									CLY	2I		
6.80	7.62	0.82	VOL	MG	more compotent with weak silica alteration							
									SIL	2I		
									CLY	2I		
7.62	15.40	7.78	VOL	MG	Weak to moderately clay altered blocky fractured intermediate volcanics. Moderate clay alteration of plag in volcanics, and pervasive weak interstitial clay ateration. Weak to moderate oxidation on fracture surfaces. Patchy weak silica alteration in 10-15cm weakly sheared (ductile?) volcanics.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	CR	CLY	2I		
						LT	BF		SIL	1I		
						LT	OR		OXI	1I		
15.40	16.44	1.04	VOL	MG	rubble, highly fractured, angular fragments, strong MnOx and FeOx in fractures							
						MD	BN	RB	OXI	4I		
						MD	OR	FR	CLY	2I		
						MD	BK	CR				
						MD	GY					
16.44	17.00	0.56	VEN	MG	Weak to moderately clay altered blocky fractured intermediate volcanics. Moderate clay alteration of plag in volcanics, and pervasive weak interstitial clay ateration. Weak to moderate oxidation on fracture surfaces. Yellow clay common in fractures.							
						LT	GY	CR	CLY	2I		
						LT	BF					
						LT	OR		OXI	1I		
17.00	25.70	8.70	VOL	MG	Weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded, resulting in generally competent rock. Limonite altered sheared intervals, >5cm, ~60 deg tca, patchy strong silica alteration in these intervals. Other small sections with weak shear fabric developed, also ~60 deg tca.							
						LT	GN	CR	CLY	2I		
									SIL	2I		
25.70	27.30	1.60	VOL	MG	Broken and rubbly, weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded. Strained texture.							
						LT	GY	ST	OXI	1I		
						LT	OR	CR	CLY	2I		
									SIL	1I		
27.30	32.00	4.70	VOL	MG	Weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded, resulting in generally competent rock							
						LT	GY	CR	CLY	2I		
						LT	OR		SIL	2I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.00	37.00	5.00	VOL	MG	Weak to moderately silica altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock. Weak shear texture resulting in weak folliation present at 50-60 deg tca. MnOx on most fractures.							
						MD	GY	FL	SIL	2I		
						LT	BN	CR				
37.00	39.30	2.30	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.							
						MD	GY	FL	CLY	1I		
								MA	OXI	1I		
								CR	SIL	1I		
39.30	39.40	0.10	FLR	--	small interval of sheared rubbly gouge at 40 deg tca, clay altered							
						LT	WH	SN	CLY	3I		
						LT	BF	SH				
						LT	GY	RB				
39.40	40.84	1.44	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.							
						MD	GY	BX	SIL	1I		
						LT	GY	CR	CLY	2I		
									OXI	1I		
40.84	43.70	2.86	VOL	MG	Highly fractured, weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.							
						MD	BN	CR	CLY	2I		
						LT	GY	FR	OXI	2I		
									SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
43.70	57.00	13.30	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.							
						MD	GY	CR	CLY	1I		
						LT	GY	FL	SIL	1I		
						LT	BN		OXI	1I		
57.00	60.00	3.00	VOL	MG	Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and weakly silica or carbonate flooded, resulting in generally competent rock with localized fractured sections. Light green grey and locally buff, rocks. Weak oxidation on fracture surfaces.							
						LT	GN	CR	SIL	1I		
						LT	GY		CLY	2I		
						LT	BF		SER	2I		
60.00	60.30	0.30	FLR	--	Tectonically brecciated, and rubble/gouge. Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics..Weak oxidation on fracture surfaces.							
						LT	WH	SH	CLY	4I		
						LT	BR	RB				
						LT	BF	FR				
60.30	64.30	4.00	VOL	MG	Tectonically brecciated, relithified. Pervasive weak silica-carbonate flooding and clay-sericite altered medium grained intermediate volcanics. Generally competent rock with localized fractured sections. Folliation developed at 63.5m at 55 deg tca, bound on either side by breccia. Light green grey and locally buff, rocks. Weak oxidation on fracture surfaces.							
						LT	GY	FR	CLY	2I		
						LT	BF	FO	SER	2I		
						LT	GN	BX	SIL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
64.30	99.00	34.70	VOL	MG	Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and weakly silica or carbonate flooded, resulting in generally competent rock with localized fractured sections. Weak folliation dfevoped intermitantly throughout interval at ~50 deg tca. Light green grey and locally buff, rock. Weak oxidation on fracture surfaces.							
						LT	GY	MA	CLY	2I		
						LT	GN		SIL	1I		
						LT	BF		SER	2I		
99.00	103.63	4.63	VOL	MG	Pervasive clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and moderately silica or carbonate flooded, resulting in generally competent rock with localized fractured sections and patchy strong silica alteration. Light green grey and locally buff or pinkish. Weak oxidation on fracture surfaces.							
						LT	GY	FD	CLY	1I		
						LT	GN		SER	2I		
						LT	PK		SIL	3I		
103.63	108.60	4.97	FLR	--	Faulted interval, gouge and abundant small clasts ~1-2mm. Fault well developed and well bound by compotent rocks on either side.							
						LT	GY	SH	CLY	4I		
								ST				
108.60	120.73	12.13	VOL	MG	Pervasive clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and moderately silica flooded, resulting in generally competent rock with localized fractured sections and patchy strong silica alteration. Light green grey and locally buff. Weak folliation developed in some areas.							
						LT	GY	SH	SIL	2I		
						LT	GN	FO	CLY	2I		
								MA	SER	1I		
								BX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
120.73	125.10	4.37	VOL	MG	Pervasive moderate silica-clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and either sheared, resulting a patchy folliation fabric. Patchy strong silica alteration. Light green grey and locally buff. Folliation ranges between 60-90 deg tca.							
						LT	GY	SH	SER	2I		
						LT	GN	FO	SIL	3I		
						LT	BF	BX	CLY	2I		
125.10	129.00	3.90	VOL	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing. Patchy strong silica alteration. Light green grey and locally buff. Folliation ranges between 60-90 deg tca. Minor patchy hematite alteration in silicified gouge around clasts. Minor patches of fine grained py clasts.							
						MD	BF	SH	CLY	2I		
						LT	GN	MA	SIL	4I		
						LT	GY	FL	SER	2I		
								FO	HEM	1I		
129.00	153.00	24.00	VOL	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing. Patchy strong silica alteration. Light green grey and locally buff. Patchy hematite alteration in silicified gouge around clasts. Minor patches of fine grained py clasts.							
						MD	BF	FO	CLY	1I		
						LT	GY	FL	SER	3I		
						LT	GN	BN	SIL	3I	Py	0.1
						LT	RD					
153.00	155.20	2.20	VOL	MG	Broken, pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Light green grey and locally buff. Patchy hematite alteration in silicified gouge around clasts.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
155.20	159.73	4.53	VOL	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing and brecciation, orientation wavy and variable. Patchy strong silica alteration. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge around clasts.							
						LT	GN	FO	SER	2I		
						LT	GY	FL	SIL	2I		
								BX	CLY	1I		
159.73	163.70	3.97	VOL	MG	Tectonically brecciated and sheared medium grained intermediate volcanics, pervasive moderate silica-clay-sericite altered. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge.							
						LT	GY	FR	CLY	3I		
								RB	SER	1I		
163.70	165.65	1.95	VOL	MG	Same as above but with moderate hematite alteration, becoming pervasive, colour is weak pink grey buff. Minor py in fresh faulted gouge.							
						LT	GY	CR	CLY	3I		
						LT	PK		SER	1I		
									HEM	2I		
165.65	172.21	6.56	VOL	MG	Brecciated volcanics and fault material with some py infill in fractures and gouge.							
						LT	GY	FR	CLY	3I	Py	1
								CR	SER	2I		
								BX				
172.21	182.00	9.79	VOL	MG	Broken and fractured intermediate altered volcanics. Similar to interval above, but py is absent							
						LT	GY	FR	CLY	3I		
						LT	GN	CR	SER	1I		
182.00	188.00	6.00	VOL	MG	Intermediate volcanics, locally brecciated texture. Weak hematite alteration around small fractures and clasts(?)							
						LT	GN	PA	SIL	1I		
						LT	GY	MA	SER	2I		
						LT	BF		CLY	1I		
									HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
188.00	191.50	3.50	VOL	MG	brecciated texture, clay altered, similar to interval above except no silica alteration and stronger clay alteration							
						LT	GN	CR	CLY	3I		
						LT	GY		SER	1I		
						LT	BF		HEM	1I		
191.50	203.10	11.60	VOL	MG	crackled texture, pervasive weak silica, pervasive moderate sericite, pervasive weak clay alteration around fractured/cracked rock, and patchy moderate hematite alteration around fractures and around clasts(?)							
						LT	GN	CR	CLY	2I		
						LT	BF		SER	2I		
						LT	GY		SIL	1I		
									HEM	1I		
203.10	203.50	0.40	FLR	--	Faulted fock, clay altered, weak hematite alteration contacts ~45 deg tca							
						LT	WH	FR	HEM	1I		
						LT	GY	CR	CLY	4I		
								BX				
203.50	219.60	16.10	VOL	MG	Mottled medium grained intermediate volcanics, clay sericite hemitite altered, patchy silica alteration. Locally crackled and fractured. Texture of resilicified tectonic breccia, hematite alteration most common in matrix, staining red-pink. Patchy localized folliation fabircs developed in some areas, orientations chaotic, but most commonly 60 deg tca							
						LT	BF	MO	HEM	1I		
						LT	RD	MA	SIL	1I		
						LT	GN	CR	SER	2I		
						LT	GY	BX	CLY	2I		
								FL				
219.60	227.50	7.90	VOL	MG	same as above, but hematite alteration absent, and lesser silica alteration							
						LT	GY	FL	CLY	3I		
						LT	BF	CR	SER	2I		
								BX	SIL	1I		
227.50	227.77	0.27	FLR	--	interval of clay altered and sheared rock							
						LT	GY	FR	CLY	4I		
								CR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								BX				
227.77	229.25	1.48	QFP	FG	same as general lith							
						LT	BF	PO				
						LT	GY	MA	CLY	2I		
229.25	231.15	1.90	VOL	MG	brecciated intermediate volcanics, generally medium to fine grained, mod to weak hem alteration in clasts and minor fine grained disseminated py in and around darker coloured matrix. Small interval of breccia in dark grey/black matrix at 230.20, clasts generally siliceous, matrix possibly tourmaline?							
						MD	GY	CR	CLY	2I	To	0.5
						LT	GY	BX	SER	1I		
						LT	GN		HEM	1I		
						LT	MR					
231.15	237.30	6.15	VOL	MG	Mostly massively textured med to fine grained altered intermediate volcanics. Minor brecciation. Minor qtz-carboante veinlets cutting through							
						LT	GY	MA	SER	2I		
						LT	GN	BX	CLY	2I		
237.30	237.60	0.30	BXA	--	brecciated intermediate volcanics patchy weak silica alteration							
						MD	GY	CR	SER	2I	Py	1
						LT	GN	BX	SIL	2I		
									CLY	1I		
237.60	239.90	2.30	BXA	--	coarse grained breccia with rounded clasts of green grey intermediate volcanincs, weakly sericite quartz altered, in moderately fissile black matrix (tourmaline?) with stringers of py cutting through at chaotic angles forming small veinlets and nets of mineralization. Clasts have oxidized rind. Contacts above and below are very sharp at 40 deg tca. Patchy shear fabric in breccia, most evident around clasts and in clast rich intervals of breccia.							
						MD	GY	BX				
						MD	GN					
						DK	BK	SH			Py	1
239.90	240.55	0.65	BXA	--	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
240.55	241.75	1.20	VOL	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout.							
						MD	GY	SH	CLY	3I	Py	1
								FO				
241.75	243.30	1.55	BXA	--	brecciated sericite altered interemdiate volcanics, carbonate infill							
						LT	GN	BX	SER	3I		
						LT	GY					
						LT	CR					
243.30	246.05	2.75	VOL	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout. Darker on edges, bleached in middle section.							
						MD	GY	MA	CLY	3I	Py	1
						DK	GY	FO				
246.05	246.80	0.75	VOL	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout. Fractured							
						MD	GY	CR	CLY	4I	Py	1
246.80	247.50	0.70	FLR	--	brecciated/faulted intermediate rocks, med grey, gouge and rubble. Minor diss py.							
						MD	GY	SH	CLY	4I	Py	0.5
								ST				
								FR				
								BX				
247.50	270.80	23.30	VOL	MG	brecciated intermediate volcanincs. Moderately clay and sericite altered. Breccia clasts are generally small ~5mm, matrix is generally rock flour, difficult to distinguish from clasts due to uniform alteration in both. Minor pinkish ankerite-rhodochrosite vienlets, often with patchy areas of weak to moderate silica flooding. Whole interval broken and fractured. Intervals of sheared texture with minor py in crackles and bleeding weekly into host rock.							
						MD	GY		SIL	1I		
						LT	GY	FR	CLY	2I	Py	0.5
						LT	GN	BX	SER	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
270.80	272.80	2.00	BXA	CG	Polymictic brecciated intermediate volcanics, primarily hematite altered but clasts without common. Pervasive sericite alteration. Siderite>carbonate infill in breccia fractures.							
						MD	GN	BX	SER	3I		
						LT	GY	PA	HEM	2I		
						LT	MR	FR	CLY	2I		
272.80	274.15	1.35	BXA	CG	same as interval above but with layers of sheared platy black mineral between brecciated intervals. Appears to be carbonaceous, but possibly black chlorite or tourmaline???							
						MD	GN	SH	SER	3I		
						LT	GY	FR	CLY	1I		
						LT	MR	BX	HEM	2I		
274.15	275.90	1.75	VOL	FG	fine grained grey-buff dyke. Bleached and / or clay altered, pervasively fractured. Small qtz phenocrysts and feldspar altered to clay.							
						LT	GY	CR	SER	2I		
						LT	BF		CLY	2I		
									BLE	3I		
275.90	282.40	6.50	BXA	--	Clast supported chaotic breccia, likely tectonic. Layers of black seemingly carbonaceous material, fissile, soft, crumbly, occasionally leaves dark smears on fingers. Possibly Tourmaline? Possibily massive black chlorite? Seems most likely some kind of carbonaceous lenses or layers, but hard to rectify that observation with surrounding rocks. Minor stringers of Py.							
						MD	GY	FR	SER	2I	Py	0.5
						MD	BK	CR				
						LT	GN	BX	CLY	1I		
282.40	287.00	4.60	FLR	--	brecciated and rebrecciated and intermittently faulted interval. Chaotically fractued with angular clasts. Highly fractured rubbly and friable. Matrix consists of mixture of white carbonate and rock flour/lithified gouge. Clasts almost exclusively weakly clay-sericite alterd intermediate volcanics.							
287.00	289.00	2.00	FLR	--	same as above but with some py stingers							
											Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
289.00	290.00	1.00	FLR	--	Similar to above but with 2-3% Py							
											Py	2
290.00	294.00	4.00	FLR	--	similar to above but with minor py stringers, occasionally with minor Sphal							
											Py	0.5
294.00	300.50	6.50	VOL	MG	Chaotically fractued weakly clay-sericite alterd intermediate volcanics. Carbonate infill in fractures. Minor py stringers/infill.							
300.50	306.32	5.82	VOL	MG	Chaotically fractued weakly clay-sericite alterd intermediate volcanics. Carbonate infill in fractures. Minor py stringers/infill. Patchy epidote occurring in lower portion of interval.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
-99.00	-99.00	0.00	FLR	VOLA	MG	Tectonically brecciated and sheared medium grained intermediate volcanics, pervasive moderate silica-clay-sericite altered. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge.
	-99.00	0.00	FLR	VOLA	MG	same as above but with moderate hematite alteration, becoming pervasive, colour is weak pink grey buff. Minor py in fresh faulted gouge.
	-99.00	0.00	-?-	FLTA	--	DELETE ME
	-99.00	0.00	-?-	FLTA	--	DELETE ME
	-99.00	0.00	-?-	FLTA	--	DELETE ME
0.00	0.73	0.73	CAS	OVB	--	casing
0.73	3.85	3.12	OVB	OVB	--	overburden
3.85	6.80	2.95	VOL	VOL	MG	highly broken and blocky
6.80	7.62	0.82	VOL	VOL	MG	more compotent with weak silica alteration
7.62	15.40	7.78	VOL	VOLA	MG	Weak to moderately clay altered blocky fractured intermediate volcanics. Moderate clay alteration of plag in volcanics, and pervasive weak interstitial clay ateration. Weak to moderate oxidation on fracture surfaces. Patchy weak silica alteration in 10-15cm weakly sheared (ductile?) volcanics.
15.40	16.44	1.04	VOL	VOLA	MG	rubble, highly fractured, angular fragments, strong MnOx and FeOx in fractures
16.44	17.00	0.56	VEN	VOLA	MG	Weak to moderately clay altered blocky fractured intermediate volcanics. Moderate clay alteration of plag in volcanics, and pervasive weak interstitial clay ateration. Weak to moderate oxidation on fracture surfaces. Yellow clay common in fractures.
17.00	25.70	8.70	VOL	VOLA	MG	Weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded, resulting in generally competent rock. Limonite altered sheared intervals, >5cm, ~60 deg tca, patchy strong silica alteration in these intervals. Other small sections with weak shear fabric developed, also ~60 deg tca.
25.70	27.30	1.60	VOL	VOLA	MG	Broken and rubbly, weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded. Strained texture.
27.30	32.00	4.70	VOL	VOLA	MG	Weakly clay and silica altered medium grained intermediate volcanics, tectonically brecciated, and silica flooded, resulting in generally competent rock
32.00	37.00	5.00	VOL	VOL	MG	Weak to moderately silica altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock. Weak shear texture resulting in weak folliation present at 50-60 deg tca. MnOx on most fractures.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
37.00	39.30	2.30	VOL	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.
39.30	39.40	0.10	FLR	VOL	--	small interval of sheared rubbly gouge at 40 deg tca, clay altered
39.40	40.84	1.44	VOL	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.
40.84	43.70	2.86	VOL	VOL	MG	Highly fractured, weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.
43.70	57.00	13.30	VOL	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.
57.00	60.00	3.00	VOL	VOLA	MG	Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and weakly silica or carbonate flooded, resulting in generally competent rock with localized fractured sections. Light green grey and locally buff, rocks. Weak oxidation on fracture surfaces.
60.00	60.30	0.30	FLR	VOLA	--	Tectonically brecciated, and rubble/gouge. Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics..Weak oxidation on fracture surfaces.
60.30	64.30	4.00	VOL	VOLA	MG	Tectonically brecciated, relithified. Pervasive weak silica-carbonate flooding and clay-sericite altered medium grained intermediate volcanics. Generally competent rock with localized fractured sections. Folliation developed at 63.5m at 55 deg tca, bound on either side by breccia. Light green grey and locally buff, rocks. Weak oxidation on fracture surfaces.
64.30	99.00	34.70	VOL	VOLA	MG	Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and weakly silica or carbonate flooded, resulting in generally competent rock with localized fractured sections. Weak folliation dfevoped intermitantly throughout interval at ~50 deg tca. Light green grey and locally buff, rock. Weak oxidation on fracture surfaces.
99.00	103.63	4.63	VOL	VOLA	MG	Pervasive clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and moderately silica or carbonate flooded, resulting in generally competent rock with localized fractured sections and patchy strong silica alteration. Light green grey and locally buff or pinkish. Weak oxidation on fracture surfaces.
103.63	108.60	4.97	FLR	FLTA	--	Faulted interval, gouge and abundant small clasts ~1-2mm. Fault well developed and well bound by compotent rocks on either side.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
108.60	120.73	12.13	VOL	VOLA	MG	Pervasive clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and moderately silica flooded, resulting in generally competent rock with localized fractured sections and patchy strong silica alteration. Light green grey and locally buff. Weak folliation developed in some areas.
120.73	125.10	4.37	VOL	VOLA	MG	Pervasive moderate silica-clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and either sheared, resulting a patchy folliation fabric. Patchy strong silica alteration. Light green grey and locally buff. Folliation ranges between 60-90 deg tca.
125.10	129.00	3.90	VOL	VOLA	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing. Patchy strong silica alteration. Light green grey and locally buff. Folliation ranges between 60-90 deg tca. Minor patchy hematite alteration in silicified gouge around clasts. Minor patches of fine grained py clasts.
129.00	153.00	24.00	VOL	VOLA	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing. Patchy strong silica alteration. Light green grey and locally buff. Patchy hematite alteration in silicified gouge around clasts. Minor patches of fine grained py clasts.
153.00	155.20	2.20	VOL	VOLA	MG	Broken, pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Light green grey and locally buff. Patchy hematite alteration in silicified gouge around clasts.
155.20	159.73	4.53	VOL	VOLA	MG	Pervasive moderate silica-clay-sericite altered medium grained, tectonically brecciated and sheared, intermediate volcanics. Patchy folliated texture resulting from the shearing and brecciation, orientation wavy and variable. Patchy strong silica alteration. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge around clasts.
159.73	163.70	3.97	VOL	FLTA	MG	Tectonically brecciated and sheared medium grained intermediate volcanics, pervasive moderate silica-clay-sericite altered. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge.
163.70	165.65	1.95	VOL	FLTA	MG	Same as above but with moderate hematite alteration, becoming pervasive, colour is weak pink grey buff. Minor py in fresh faulted gouge.
165.65	172.21	6.56	VOL	FLTA	MG	Brecciated volcanics and fault material with some py infill in fractures and gouge.
172.21	182.00	9.79	VOL	FLTA	MG	Broken and fractured intermediate altered volcanics. Similar to interval above, but py is absent
182.00	188.00	6.00	VOL	VOLA	MG	Intermediate volcanics, locally brecciated texture. Weak hematite alteration around small fractures and clasts(?)
188.00	191.50	3.50	VOL	VOLA	MG	brecciated texture, clay altered, similar to interval above except no silica alteration and stronger clay alteration
191.50	203.10	11.60	VOL	VOLA	MG	crackled texture, pervasive weak silica, pervasive moderate sericite, pervasive weak clay alteration around fractured/cracked rock, and patchy moderate hematite alteration around fractures and around clasts(?)

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
203.10	203.50	0.40	FLR	VOLA	--	Faulted fock, clay altered, weak hematite alteration contacts ~45 deg tca
203.50	219.60	16.10	VOL	VOLA	MG	Mottled medium grained intermediate volcanics, clay sericite hemitite altered, patchy silica alteration. Locally crackled and fractured. Texture of resilicified tectonic breccia, hematite alteration most common in matrix, staining red-pink. Patchy localized folliation fabircs developed in some areas, orientations chaotic, but most commonly 60 deg tca
219.60	227.50	7.90	VOL	VOLA	MG	same as above, but hematite alteration absent, and lesser silica alteration
227.50	227.77	0.27	FLR	VOLA	--	interval of clay altered and sheared rock
227.77	229.25	1.48	QFP	DYK	FG	same as general lith
229.25	231.15	1.90	VOL	VOLA	MG	brecciated intermediate volcanics, generally medium to fine grained, mod to weak hem alteration in clasts and minor fine grained disseminated py in and around darker coloured matrix. Small interval of breccia in dark grey/black matrix at 230.20, clasts generally siliceous, matrix possibly tourmaline?
231.15	237.30	6.15	VOL	VOLA	MG	Mostly massively textured med to fine grained altered intermediate volcanics. Minor brecciation. Minor qtz-carboante veinlets cutting through
237.30	237.60	0.30	BXA	VOLA	--	brecciated intermediate volcanics patchy weak silica alteration
237.60	239.90	2.30	BXA	---	--	coarse grained breccia with rounded clasts of green grey intermediate volcanincs, weakly sericite quartz altered, in moderately fissile black matrix (tourmaline?) with stringers of py cutting through at chaotic angles forming small veinlets and nets of mineralization. Clasts have oxidized rind. Contacts above and below are very sharp at 40 deg tca. Patchy shear fabric in breccia, most evident around clasts and in clast rich intervals of breccia.
239.90	240.55	0.65	BXA	---	--	same as general lith
240.55	241.75	1.20	VOL	DYK	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout.
241.75	243.30	1.55	BXA	DYK	--	brecciated sericite altered interemdiate volcanics, carbonate infill
243.30	246.05	2.75	VOL	DYK	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout. Darker on edges, bleached in middle section.
246.05	246.80	0.75	VOL	DYK	FG	andesitic dyke, medium grey, feld alterd to clay, actually, generally pervasive clay alteration. Sheared texture, folliation at 30 deg tca. Blebby and disseminated py througout. Fractured
246.80	247.50	0.70	FLR	FLT	--	brecciated/faulted intermediate rocks, med grey, gouge and rubble. Minor diss py.
247.50	270.80	23.30	VOL	VOL	MG	brecciated intermediate volcanincs. Moderately clay and sericite altered. Breccia clasts are generally small ~5mm, matrix is generally rock flour, difficult to distinguish from clasts due to uniform alteration in both. Minor pinkish ankerite-rhodochrosite vienlets, often with patchy areas of weak to moderate silica flooding. Whole interval broken and fractured. Intervals of sheared texture with minor py in crackles and bleeding weekly into host rock.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
270.80	272.80	2.00	BXA	VOL	CG	Polymictic brecciated intermediate volcanics, primarily hematite altered but clasts without common. Pervasive sericite alteration. Siderite>carbonate infill in breccia fractures.
272.80	274.15	1.35	BXA	VOL	CG	same as interval above but with layers of sheared platy black mineral between brecciated intervals. Appears to be carbonaceous, but possibly black chlorite or tourmaline???
274.15	275.90	1.75	VOL	DYK	FG	fine grained grey-buff dyke. Bleached and / or clay altered, pervasively fractured. Small qtz phenocrysts and feldspar altered to clay.
275.90	282.40	6.50	BXA	VOL	--	Clast supported chaotic breccia, likely tectonic. Layers of black seemingly carbonaceous material, fissile, soft, crumbly, occasionally leaves dark smears on fingers. Possibly Tourmaline? Possibily massive black chlorite? Seems most likely some kind of carbonaceous lenses or layers, but hard to rectify that observation with surrounding rocks. Minor stringers of Py.
282.40	287.00	4.60	FLR	VOL	--	brecciated and rebrecciated and intermittently faulted interval. Chaotically fractued with angular clasts. Highly fractured rubbly and friable. Matrix consists of mixture of white carbonate and rock flour/lithified gouge. Clasts almost exclusively weakly clay-sericite alterd intermediate volcanics.
287.00	289.00	2.00	FLR	VOL	--	same as above but with some py stingers
289.00	290.00	1.00	FLR	VOL	--	Similar to above but with 2-3% Py
290.00	294.00	4.00	FLR	VOL	--	similar to above but with minor py stringers, occasionally with minor Sphal
294.00	300.50	6.50	VOL	VOL	MG	Chaotically fractued weakly clay-sericite alterd intermediate volcanics. Carbonate infill in fractures. Minor py stringers/infill.
300.50	306.32	5.82	VOL	VOL	MG	Chaotically fractued weakly clay-sericite alterd intermediate volcanics. Carbonate infill in fractures. Minor py stringers/infill. Patchy epidote occurring in lower portion of interval.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.73	0.73	CAS	--	casing							
0.73	3.85	3.12	OVB	--	overburden							
3.85	7.62	3.77	VOL	MG	weakly altered intermediate volcanics. Weak clay alteration, overprinted by pervasive weak silica alteration. Generally fractured and blocky. MnOx and FeOx on fracture surfaces.							
						MD	GY	FR	CLY	2I		
						LT	BF		SIL	2I		
									OXI	2I		
7.62	17.00	9.38	VOL	MG	Weak to moderately clay altered blocky fractured intermediate volcanics. Moderate clay alteration of plag in volcanics, and pervasive weak interstitial clay ateration. Weak to moderate oxidation on fracture surfaces. Patchy weak silica alteration in 10-15cm weakly sheared (ductile?) volcanics.							
									OXI	1I		
						LT	GY	CR	CLY	2I		
						LT	BF		CLY	3I		
						LT	OR		SIL	1I		
17.00	32.00	15.00	VOL	MG	Weakly clay and silica altered medium grained intermediate volcanics, subtly tectonically brecciated, and silica flooded, resulting in generally competent rock							
						LT	GY	CR	CLY	2I		
									SIL	2I		
32.00	37.00	5.00	VOL	MG	Weak to moderately silica altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock. Weak shear texture resulting in weak folliation present at 50-60 deg tca. MnOx on most fractures.							
						MD	GY	FL	SIL	2I		
						LT	BN	CR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.00	57.00	20.00	VOL	MG	Weak silica and clay altered medium grained intermediate volcanics. Tectonically brecciated, and silica flooded, resulting in generally competent rock with localized fractured sections. Breccia texture more evident than in intervals above. Oxidation on fracture surfaces.							
						LT	GY	FL	SIL	1I		
						MD	GY	CR	CLY	1I		
									OXI	1I		
57.00	103.63	46.63	VOL	MG	Pervasive weak silica and clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and weakly silica or carbonate flooded, resulting in generally competent rock with localized fractured sections. Light green grey and locally buff, rocks. Some sections where a shear fabric is developed, often bound by intervals with a brecciated texture. Tectonic breccia and silicified sheared gouge? Weak oxidation on fracture surfaces.							
								CR				
						LT	GN	MA	CLY	2I		
						LT	GY	SH	SIL	1I		
						LT	BF	BX	SER	2I		
103.63	108.60	4.97	FLR	--	Faulted interval, gouge and abundant small clasts ~1-2mm. Fault well developed and well bound by compotent rocks on either side.							
						MD	GY	SH	CLY	5I		
								ST				
108.60	120.73	12.13	VOL	MG	Pervasive clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and moderately silica flooded, resulting in generally competent rock with localized fractured sections and patchy strong silica alteration. Light green grey and locally buff. Weak folliation developed in some areas.							
								SH				
						LT	GN	MA	SIL	2I		
						LT	GY	FO	CLY	2I		
								BX	SER	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
120.73	159.73	39.00	VOL	MG	Pervasive moderate silica-clay-sericite altered medium grained intermediate volcanics. Tectonically brecciated, and sheared, resulting a patchy folliated texture. Patchy strong silica alteration. Light green grey and locally buff. Folliation ranges between 60-90 deg tca. Patchy hematite alteration in silicified gouge from 129-???.							
						LT	RD					
						MD	GN					
						MD	GY	MO	SER	2I		
						LT	GN	FO	CLY	2I		
						LT	GY	SH	SIL	3I		
159.73	182.00	22.27	VOL	MG	Faulted and sheared medium grained intermediate volcanics, pervasive moderate silica-clay-sericite altered. Light green grey and locally buff. Patchy weak hematite alteration in silicified gouge. Occasional Py infill in gouge and fractures							
						LT	GY	FR	SER	2I	Py	0.5
						LT	GN	CR	CLY	2I		
								BX				
182.00	227.77	45.77	VOL	MG	Intermediate volcanics, locally brecciated texture. Weak hematite alteration around small fractures and clasts(?)							
						LT	BF	FL	SER	1I		
						LT	GN		SIL	1I		
									HEM	1I		
						LT	GY	CR	CLY	2I		
227.77	229.25	1.48	QFP	FG	fine grained qfp dyke, small 1-2mm qtz and feld phenocrysts							
						LT	GY	MA	CLY	2I		
						LT	BF	PO				
229.25	237.60	8.35	VOL	MG	fine grained intermediate volcanics, greenish grey, sometimes brecciated, small interval of dark grey tourmaline(?) breccia							
						MD	GN	MA	CLY	2I		
						LT	GY	CR	SER	2I		
						LT	BF	BX				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
237.60	239.90	2.30	BXA	--	coarse grained breccia with rounded clasts of green grey intermediate volcanincs, weakly sericite quartz altered, in moderately fissile black matrix (tourmaline?) with stringers of py cutting through at chaotic angles forming small veinlets and nets of mineralization. Clasts have oxidized rind. Contacts above and below are very sharp at 40 deg tca. Patchy shear fabric in breccia, most evident around clasts and in clast rich intervals of breccia.							
						MD	GN	SH				
						MD	GY					
						DK	BK	BX			Py	1
239.90	240.55	0.65	BXA	--	brecciated intermed volcanics. Strong fracture orientation at 30 deg tca infilled with Py. Pervasive weak to moderate ser cly hem alteration							
						LT	GN	CR	SER	2I		
						LT	MR		HEM	1I		
						LT	GY	BX	CLY	1I	Py	2
240.55	246.80	6.25	VOL	FG	andesite dyke, fine grained, med grey internally, edges dark grey, small laths of plag altered to clay, hanging wall and foot wall are marked by colour change, sheared texture and small gougy intervals. Younger breccia containing mainly clasts of greenish sericite altered volcanincs and carbonate infill, rare clasts of andesite dyke. This breccia occurs in central portion of this dyke interval. Evidence of multiple andesite dyke intervals.							
								MA				
						MD	GY	SN	CLY	2I	Py	1
						LT	GN	BX	SER	1I		
246.80	247.50	0.70	FLR	--	brecciated/faulted intermediate rocks, med grey, gouge and rubble. Minor diss py.							
						MD	GY	BX	CLY	4I	Py	0.5
								SH				
								FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
247.50	274.15	26.65	BXA	MG	Brecciated intermediate volcanincs. Moderately clay and sericite altered. Breccia clasts are generally small ~5mm, matrix is generally rock flour, difficult to distinguish from clasts due to uniform alteration in both. Minor pinkish ankerite-rhodochrosite vienlets, often with patchy areas of weak to moderate silica flooding. Whole interval broken and fractured. Intervals of sheared texture with minor Py in crackles and bleeding weekly into host rock.							
									CLY	2I		
						LT	GN	CR	SER	2I	Py	0.5
						LT	GY	BX	SIL	1I		
274.15	275.90	1.75	VOL	FG	fine grained grey-buff dyke. Bleached and / or clay altered, pervasively fractured. Small qtz phenocrysts and feldspar altered to clay.							
						LT	GY	CR	CLY	2I		
						LT	BF		SER	2I		
									BLE	3I		
275.90	282.40	6.50	BXA	--	Clast supported chaotic breccia, likely tectonic. Layers of black seemingly carbonaceous material, fissile, soft, crumbly, occasionally leaves dark smears on fingers. Possibly Tourmaline? Possibily massive black chlorite? Seems most likely some kind of carbonaceous lenses or layers, but hard to rectify that observation with surrounding rocks. Minor stringers of Py.							
						MD	GY	CR	SER	2I	Py	0.5
						LT	GN	FR	CLY	2I		
								BX				
282.40	294.00	11.60	FLR	--	brecciated and rebrecciated and intermittently faulted interval. Chaotically fractued with angular clasts. Highly fractured rubbly and friable. Matrix consists of mixture of white carbonate and rock flour/lithified gouge. Clasts almost exclusively weakly clay-sericite alterd intermediate volcanics. Some intervals have Py infill between clasts, stringers of Py common througout interval.							
						MD	GY	BX	CLY	1I	Py	1
						LT	GY	CR	SER	1I		
								FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
294.00	306.32	12.32	VOL	MG	Chaotically fractued weakly clay-sericite alterd intermediate volcanics. Carbonate infill in fractures. Minor py stringers/infill. Patchy epidote occurring in lower portion of interval.							
						MD	GY	CR	CLY	1I	Py	0.1
									SER	1I	Ep	0.5
									PRO	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.15	10	0.00	0	--	1H	6W	Overburden, soil
1.52	3.05	1.53	0.76	50	0.00	0	--	1H	6W	Overburden, soil
3.05	4.57	1.52	1.1	72	0.00	0	--	3H	5W	Overburden, getting into real rock
4.57	6.10	1.53	1.46	95	0.00	0	--	3H	5W	Heavily altered with dark manganese oxide staining and fractured
6.10	7.62	1.52	1.32	87	0.16	11	--	2H	5W	Rubble
7.62	9.14	1.52	1.42	93	0.00	0	--	2H	4W	Rubble
9.14	10.67	1.53	1.32	86	0.25	16	--	2H	4W	Rubble. Small pieces of heavily fractured grd with fg grey siliceous veins cross cutting and veinlets of rust orange brown throughout
10.67	12.19	1.52	1.41	93	0.00	0	--	2H	3W	Rubble zone
12.19	13.73	1.54	1.24	81	0.00	0	--	2H	3W	Rubble zone
13.73	15.24	1.51	1.26	83	0.18	12	--	2H	3W	Rubble zone
15.24	16.76	1.52	1.18	78	0.00	0	--	2H	3W	Rubble zone with dark black manganese oxide and red brown oxide staining
16.76	18.29	1.53	1.38	90	0.15	10	--	2H	2W	
18.29	19.81	1.52	1.44	95	0.30	20	--	3H	2W	
19.81	21.34	1.53	1.39	91	0.26	17	--	3H	2W	Rubble zone with light yellow brown limonite staining
21.34	22.86	1.52	1.36	89	0.14	9	--	3H	2W	Rubble zone with 5cm orange brown breccia zone. Light yellow brown limonite staining
22.86	24.38	1.52	1.46	96	0.17	11	--	4H	2W	Small shear zone in fragmented rock
24.38	25.91	1.53	1.34	88	0.51	33	--	4H	2W	Small cm size vugs infilled with light yellow brown oxide/ limonite clay infill.
25.91	26.52	0.61	0.48	79	0.00	0	--	2H	3W	Rubble zone, light yellow brown limonite oxidation
26.52	28.96	2.44	2.13	87	0.70	29	--	3H	3W	Fractured rubble zone
28.96	30.48	1.52	1.48	97	0.16	11	--	3H	1W	
30.48	32.00	1.52	1.48	97	0.00	0	--	4H	1W	
32.00	33.53	1.53	1.36	89	0.27	18	--	4H	2W	
33.53	35.05	1.52	1.47	97	0.64	42	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
35.05	36.58	1.53	1.42	93	0.42	27	--	5H	1W	
36.58	38.10	1.52	1.42	93	0.16	11	--	4H	1W	
38.10	39.62	1.52	1.47	97	0.60	39	--	3H	2W	
39.62	40.84	1.22	1.14	93	0.68	56	--	4H	2W	
40.84	42.67	1.83	1.52	83	0.15	8	--	3H	2W	Rubble zone
42.67	44.65	1.98	1.95	98	0.39	20	--	3H	2W	
44.65	47.24	2.59	2.5	97	2.07	80	--	3H	1W	
47.24	50.29	3.05	2.82	92	1.67	55	--	3H	2W	Black manganese oxide staining on joint/ fracture surfaces
50.29	53.34	3.05	2.81	92	1.35	44	--	3H	1W	Joint and fracture surfaces are stained with light orange brown oxide
53.34	56.39	3.05	3	98	1.71	56	--	3H	1W	
56.39	59.44	3.05	2.91	95	0.31	10	--	4H	2W	Primarily rubble section
59.44	62.18	2.74	2.49	91	0.43	16	--	4H	3W	
62.18	64.01	1.83	1.65	90	0.68	37	--	4H	2W	
64.01	67.06	3.05	2.86	94	1.50	49	--	3H	2W	Minor cm size vugs and light orange-yellow brown limonitic staining on fracture surfaces
67.06	70.10	3.04	2.91	96	0.81	27	--	5H	1W	Dark reddish brown oxide material on fracture and joint surfaces. Rock is very silicified greenish grey silicified volcanic
70.10	73.15	3.05	2.66	87	0.82	27	--	3H	2W	Some orange brown clay fault gouge in run. Oxidized fracture and joint surfaces
73.15	76.20	3.05	2.75	90	1.54	50	--	3H	2W	Fracture surfaces have some dark reddish brown to black manganese oxide staining
76.20	78.64	2.44	2.24	92	0.52	21	--	4H	1W	
78.64	80.77	2.13	2.06	97	1.46	69	--	4H	1W	
80.77	83.82	3.05	3.02	99	1.45	48	--	4H	1W	
83.82	86.87	3.05	2.73	90	1.19	39	--	4H	1W	very fractured
86.87	89.92	3.05	2.61	86	0.58	19	--	4H	2W	No matching joint set
89.92	92.96	3.04	2.79	92	1.15	38	--	5H	1W	Very fractured and silicified grey green volcanic/ breccia
92.96	94.79	1.83	1.78	97	0.19	10	--	2H	2W	No matching joint set
94.79	97.54	2.75	2.52	92	0.78	28	--	2H	2W	Small mm size vugs with some light yellow and orange brown limonitic clay infill.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
97.54	100.58	3.04	2.87	94	0.88	29	--	4H	2W	
100.58	103.63	3.05	2.79	91	0.55	18	--	3H	3W	
103.63	105.16	1.53	1.36	89	0.00	0	--	2H	2W	Clay section
105.16	108.20	3.04	2.57	85	0.25	8	--	2H	1W	Clay section
108.20	111.25	3.05	2.92	96	1.02	33	--	3H	1W	
111.25	114.30	3.05	3.05	100	0.86	28	--	4H	1W	
114.30	117.35	3.05	2.91	95	1.74	57	--	4H	1W	
117.35	120.40	3.05	3.03	99	0.88	29	--	4H	1W	
120.40	123.44	3.04	3.03	100	1.63	54	--	5H	1W	
123.44	126.49	3.05	3.02	99	1.88	62	--	5H	1W	Very silicified volcanic/ dyke?
126.49	129.54	3.05	3	98	2.25	74	--	5H	1W	No matching joint sets. Joint at 50 degrees has some minor pyrite and calcite on joint surface
129.54	132.59	3.05	2.92	96	1.21	40	--	4H	1W	minor pyrite and galena on joint surface
132.59	135.64	3.05	2.99	98	1.06	35	--	5H	1W	
135.64	138.68	3.04	2.89	95	1.41	46	--	4H	1W	
138.68	140.21	1.53	1.47	96	0.32	21	--	4H	1W	Small grey quartz vein in joint infill with clay and chlorite alteration
140.21	141.43	1.22	1.05	86	0.00	0	--	3H	1W	
141.43	143.26	1.83	1.71	93	0.26	14	--	4H	1W	
143.26	146.30	3.04	2.88	95	0.57	19	--	3H	1W	
146.30	149.35	3.05	2.67	88	0.42	14	--	3H	1W	Calcite veins
149.35	152.40	3.05	2.51	82	0.16	5	--	3H	1W	Rubble zone
152.40	155.45	3.05	2.74	90	0.00	0	--	3H	1W	Rubble zone
155.45	158.50	3.05	2.73	90	0.79	26	--	3H	1W	
158.50	161.54	3.04	2.46	81	0.30	10	--	3H	1W	Rubble zone
161.54	164.29	2.75	2.27	83	0.00	0	--	2H	1W	Rubble zone
164.29	166.12	1.83	1.8	98	0.71	39	--	2H	1W	
166.12	169.16	3.04	2.67	88	0.67	22	--	2H	1W	Clay breccia/ fault zone
169.16	172.21	3.05	2.85	93	1.52	50	--	2H	1W	Clay breccia fault zone
172.21	175.26	3.05	2.81	92	0.45	15	--	2H	1W	Rubble zone
175.26	178.31	3.05	2.81	92	0.15	5	--	2H	1W	Rubble zone

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
178.31	179.83	1.52	1.33	88	0.49	32	--	2H	1W	
179.83	182.88	3.05	2.77	91	1.20	39	--	2H	1W	
182.88	185.93	3.05	2.8	92	0.65	21	--	3H	1W	
185.93	188.98	3.05	2.88	94	1.47	48	--	4H	1W	Silicified volcanic/ dyke (?)
188.98	191.72	2.74	2.55	93	0.60	22	--	3H	1W	Rubble zone
191.72	193.55	1.83	1.73	95	0.00	0	--	2H	1W	
193.55	196.60	3.05	2.85	93	0.56	18	--	3H	1W	No matching joint sets
196.60	199.64	3.04	2.93	96	0.27	9	--	2H	1W	
199.64	202.69	3.05	2.87	94	0.44	14	--	2H	1W	
202.69	205.74	3.05	2.86	94	0.49	16	--	2H	1W	clay altered fault zone
205.74	208.79	3.05	2.72	89	0.36	12	--	2H	1W	Rubble
208.79	211.84	3.05	2.89	95	0.47	15	--	3H	1W	
211.84	214.27	2.43	2.21	91	0.43	18	--	2H	1W	rubble zone, some clay altered fault gouge. Hematite infilled fractures
214.27	216.41	2.14	2.07	97	1.62	76	--	3H	1W	Infilled fractures of hematite
216.41	219.46	3.05	2.84	93	1.37	45	--	4H	1W	some clay fault gouge, rubble
219.46	222.50	3.04	2.73	90	1.03	34	--	4H	1W	rubble zone
222.50	225.55	3.05	2.92	96	0.53	17	--	4H	1W	grey green silicified volcanic/ dyke?
225.55	228.60	3.05	2.87	94	1.29	42	--	3H	1W	small ~25cm wide clay gouge zone
228.60	231.65	3.05	2.89	95	1.10	36	--	3H	1W	
231.65	234.70	3.05	2.84	93	1.30	43	--	4H	1W	
234.70	237.74	3.04	2.84	93	0.96	32	--	4H	1W	
237.74	240.79	3.05	2.73	90	1.69	55	--	2H	1W	fine grained black tourmaline breccia (?), very soft and almost clay like in places. Pyrite veins and blebby patches throughout. Very fractured and brecciated
240.79	243.84	3.05	2.83	93	1.55	51	--	3H	1W	grey green siliceous breccia with carbonate filled fractures.
243.84	246.89	3.05	2.86	94	0.12	4	--	4H	1W	
246.89	249.50	2.61	2.56	98	0.00	0	--	2H	1W	Rubble zone, clay gouge, heavily fractured
249.50	251.46	1.96	1.87	95	0.00	0	--	3H	1W	
251.46	253.29	1.83	1.78	97	0.00	0	--	3H	1W	
253.29	256.03	2.74	2.06	75	0.16	6	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
256.03	259.08	3.05	2.49	82	0.23	8	--	3H	1W	
259.08	262.13	3.05	2.88	94	0.76	25	--	3H	1W	
262.13	265.18	3.05	2.74	90	0.48	16	--	3H	1W	
265.18	268.22	3.04	2.83	93	0.47	15	--	3H	1W	
268.22	271.27	3.05	2.82	92	1.39	46	--	3H	1W	Some clay altered fault gouge
271.27	274.32	3.05	2.93	96	1.24	41	--	3H	1W	28cm wide zone of black fine grained possible tourmaline breccia pipe in section. Almost carbonaceous in how it rubs off on fingers and clay-like
274.32	277.37	3.05	2.79	91	1.57	51	--	2H	1W	clay fault zone
277.37	280.42	3.05	2.82	92	0.22	7	--	2H	1W	rubble zone and clay fault gouge
280.42	283.46	3.04	2.92	96	1.68	55	--	2H	1W	breccia zone
283.46	284.99	1.53	1.49	97	0.76	50	--	2H	1W	clay breccia/ fault zone
284.99	287.12	2.13	1.72	81	0.00	0	--	2H	1W	Rubble zone
287.12	288.04	0.92	0.78	85	0.35	38	--	3H	1W	Clay fault zone in siliceous/ hard breccia. Cave section
288.04	291.08	3.04	2.84	93	0.12	4	--	2H	1W	Clay fault zone. Very soft
291.08	294.13	3.05	2.66	87	0.51	17	--	2H	1W	
294.13	296.57	2.44	2.09	86	0.15	6	--	2H	1W	Rubble zone
296.57	299.01	2.44	2.21	91	0.80	33	--	3H	1W	
299.01	300.23	1.22	1.21	99	0.00	0	--	2H	1W	
300.23	303.28	3.05	2.83	93	0.63	21	--	2H	1W	Epidote alteration in section
303.28	306.32	3.04	2.7	89	0.59	19	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0.259	OVB	
2	0.117	OVB	
3	0.171	OVB	
4	0.269	VOL	
5	0.165	VOL	
6	0.309	VOL	
7	0.277	VOL	
8	0.047	VOL	
9	0.123	VOL	
10	0.358	VOL	
11	0.242	VOL	
12	0.106	VOL	
13	0.038	VOL	
14	0.131	VOL	
15	0.23	VOL	
16	0.098	VOL	
17	0.211	VOL	
17	0.211	VOL	
18	0.172	VOL	
19	0.257	VOL	
20	0.272	VOL	
21	0.315	VOL	
22	0.17	VOL	
23	0.149	VOL	
24	0.127	VOL	
25	0.249	VOL	
26	0.124	VOL	
27	0.236	VOL	
28	0.131	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
29	0.174	VOL	
30	0.192	VOL	
31	0.204	VOL	
32	0.319	VOL	
32	0.319	VOL	
33	0.241	VOL	
34	0.424	VOL	
35	0.384	VOL	
36	2.096	VOL	
37	0.472	VOL	
37	0.472	VOL	
38	0.409	VOL	
39	0.117	VOL	
40	0.678	VOL	
41	0.201	VOL	
42	0.157	VOL	
43	0.347	VOL	
44	0.485	VOL	
45	1.468	VOL	
46	0.567	VOL	
47	0.777	VOL	
48	0.31	VOL	
49	0.333	VOL	
50	0.233	VOL	
51	0.285	VOL	
52	0.219	VOL	
53	0.192	VOL	
54	0.187	VOL	
55	0.296	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	0.758	VOL	
57	0.34	VOL	
57	0.34	VOL	
58	0.144	VOL	
59	0.14	VOL	
60	0.226	VOL	
61	0.125	VOL	
62	0.056	VOL	
63	0.164	VOL	
64	0.147	VOL	
65	0.042	VOL	
66	0.283	VOL	
67	0.145	VOL	
68	0.103	VOL	
69	0.235	VOL	
70	0.183	VOL	
71	0.184	VOL	
72	0.374	VOL	
73	0.172	VOL	
74	0.156	VOL	
75	0.127	VOL	
76	0.112	VOL	
77	0.225	VOL	
78	0.255	VOL	
79	0.117	VOL	
80	0.08	VOL	
81	0.141	VOL	
82	0.387	VOL	
83	0.036	VOL	
84	0.181	VOL	
85	0.128	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
86	0.126	VOL	
87	0.197	VOL	
88	0.263	VOL	
89	0.128	VOL	
90	0.122	VOL	
91	0.494	VOL	
92	0.071	VOL	
93	0.272	VOL	
94	0.134	VOL	
95	0.206	VOL	
96	0.155	VOL	
97	0.06	VOL	
98	0.548	VOL	
99	0.128	VOL	
100	0.136	VOL	
101	0.22	VOL	
102	0.035	VOL	
103	0.116	VOL	
104	0.113	FLR	
105	0.287	FLR	
106	0.335	FLR	
107	0.318	FLR	
108	1.189	FLR	
109	0.159	VOL	
110	0.183	VOL	
111	0.176	VOL	
112	0.398	VOL	
113	0.435	VOL	
114	0.155	VOL	
115	0.23	VOL	
116	0.203	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
117	0.206	VOL	
118	0.246	VOL	
119	0.175	VOL	
120	0.194	VOL	
121	0.153	VOL	
122	0.207	VOL	
123	0.154	VOL	
124	0.304	VOL	
125	0.517	VOL	
126	0.349	VOL	
127	0.401	VOL	
128	0.204	VOL	
129	0.175	VOL	
130	0.339	VOL	
131	0.167	VOL	
132	0.252	VOL	
133	0.234	VOL	
134	0.203	VOL	
135	0.216	VOL	
136	0.217	VOL	
137	0.291	VOL	
138	0.362	VOL	
139	0.41	VOL	
140	0.031	VOL	
141	0.375	VOL	
142	0.338	VOL	
143	0.199	VOL	
144	0.239	VOL	
145	0.384	VOL	
146	0.228	VOL	
147	0.168	VOL	
148	0.198	VOL	
149	0.153	VOL	
150	0.241	VOL	
151	0.165	VOL	
152	0.198	VOL	
153	0.125	VOL	
154	0.296	VOL	
155	0.31	VOL	
156	0.257	VOL	
157	0.152	VOL	
158	0.257	VOL	
159	0.416	VOL	
160	0.175	VOL	
161	0.156	VOL	
162	0.418	VOL	
163	0.111	VOL	
164	0.148	VOL	
165	0.165	VOL	
166	0.126	VOL	
167	0.119	VOL	
168	0.165	VOL	
169	0.156	VOL	
170	0.32	VOL	
171	0.179	VOL	
172	0.167	VOL	
173	0.173	VOL	
174	0.3	VOL	
175	0.148	VOL	
176	0.155	VOL	
177	0.201	VOL	
178	0.25	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
179	0.329	VOL	
180	0.235	VOL	
181	0.257	VOL	
182	0.201	VOL	
182	0.201	VOL	
183	0.141	VOL	
184	0.154	VOL	
185	0.17	VOL	
186	0.851	VOL	
187	0.415	VOL	
188	0.291	VOL	
189	0.26	VOL	
190	1.524	VOL	
191	1.524	VOL	
192	0.319	VOL	
193	0.391	VOL	
194	0.314	VOL	
195	0.368	VOL	
196	0.361	VOL	
197	0.434	VOL	
198	0.722	VOL	
199	0.552	VOL	
200	0.162	VOL	
201	0.129	VOL	
202	0.17	VOL	
203	0.34	VOL	
204	0.672	VOL	
205	0.573	VOL	
206	0.243	VOL	
207	0.167	VOL	
208	0.232	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments
209	0.389	VOL	
210	0.235	VOL	
211	0.174	VOL	
212	0.29	VOL	
213	0.127	VOL	
214	0.146	VOL	
215	0.148	VOL	
216	0.158	VOL	
217	0.19	VOL	
218	0.372	VOL	
219	0.568	VOL	
220	0.114	VOL	
221	0.483	VOL	
222	0.487	VOL	
223	0.284	VOL	
224	0.161	VOL	
225	0.142	VOL	
226	0.194	VOL	
227	0.235	VOL	
228	0.589	QFP	
229	0.123	QFP	
230	0.328	VOL	
231	0.321	VOL	
232	0.473	VOL	
233	0.51	VOL	
234	0.656	VOL	
235	0.873	VOL	
236	0.461	VOL	
237	0.497	VOL	
238	0.187	BXA	
239	0.379	BXA	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
240	0.669	BXA	
241	0.194	VOL	
242	0.261	VOL	
243	0.346	VOL	
244	0.488	VOL	
245	0.7	VOL	
246	0.043	VOL	
247	0.331	FLR	
248	0.46	BXA	
249	0.211	BXA	
250	0.168	BXA	
251	0.175	BXA	
252	0.765	BXA	
253	0.272	BXA	
254	0.227	BXA	
255	0.181	BXA	
256	1.665	BXA	
257	0.24	BXA	
258	0.223	BXA	
259	0.553	BXA	
260	0.391	BXA	
261	0.257	BXA	
262	0.33	BXA	
263	0.387	BXA	
264	0.416	BXA	
265	0.517	BXA	
266	0.18	BXA	
267	0.299	BXA	
268	0.406	BXA	
269	0.392	BXA	
270	0.194	BXA	

Depth (m)	Magnetic Susceptibility	Unit	Comments
271	0.228	BXA	
272	0.295	BXA	
273	0.125	BXA	
274	0.641	BXA	
275	0.143	VOL	
276	0.214	BXA	
277	0.216	BXA	
278	0.141	BXA	
279	0.276	BXA	
280	0.179	BXA	
281	0.157	BXA	
282	0.215	BXA	
283	0.339	FLR	
284	0.401	FLR	
285	0.513	FLR	
286	0.645	FLR	
287	0.288	FLR	
288	0.246	FLR	
289	0.265	FLR	
290	0.844	FLR	
291	0.286	FLR	
292	0.325	FLR	
293	0.467	FLR	
294	0.393	FLR	
294	0.393	VOL	
295	0.365	VOL	
296	0.212	VOL	
297	0.288	VOL	
298	0.299	VOL	
299	2.039	VOL	
300	0.513	VOL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
301	0.527	VOL	
302	0.497	VOL	
303	0.316	VOL	
304	0.345	VOL	
305	0.36	VOL	
306	0.371	VOL	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599911	☐	20-028	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599918	☐	20-028	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599938	☐	20-028	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599950	☐	20-029	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599960	☐	20-029	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599969	☐	20-029	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599897	☐	20-021	Low Grade		☑	☐	☐
157.00	158.30	1.30	VOL	1.30	100	W599891	☐	20-021	Low Grade		☐	☐	☐
158.30	158.80	0.50	VOL	0.50	100	W599892	☐	20-021	Low Grade		☐	☐	☐
158.80	160.00	1.20	VOL	1.15	96	W599893	☐	20-021	Low Grade		☐	☐	☐
160.00	161.50	1.50	VOL	1.18	79	W599894	☐	20-021	Low Grade		☐	☐	☐
161.50	163.00	1.50	VOL	1.37	91	W599895	☐	20-021	Low Grade		☐	☐	☐
163.00	164.50	1.50	VOL	1.50	100	W599896	☐	20-021	Low Grade		☐	☐	☐
164.50	165.25	0.75	VOL	0.75	100	W599898	☐	20-021	Low Grade		☐	☐	☐
165.25	166.12	0.87	VOL	0.87	100	W599899	☐	20-021	Low Grade		☐	☐	☐
166.12	166.90	0.78	VOL	0.78	100	W599900	☐	20-021	Low Grade		☐	☐	☐
166.90	168.00	1.10	VOL	1.03	94	W599901	☐	20-021	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
168.00	169.30	1.30	VOL	1.25	96	W599902	☐	20-021	Low Grade		☐	☐	☐
169.30	170.00	0.70	VOL	0.68	97	B700502	☐	20-011	High Grade		☐	☐	☐
170.00	170.40	0.40	VOL	0.40	100	B700503	☐	20-011	High Grade		☐	☐	☐
170.40	171.88	1.48	VOL	1.48	100	W599903	☐	20-021	Low Grade		☐	☐	☐
170.40	171.88	1.48	VOL	1.48	100	W599904	☐	20-021	Low Grade		☐	☑	☐
171.88	173.00	1.12	VOL	1.12	100	W599905	☐	20-028	Low Grade		☐	☐	☐
210.71	212.00	1.29	VOL	1.24	96	W599906	☐	20-028	Low Grade		☐	☐	☐
212.00	213.50	1.50	VOL	1.29	86	W599907	☐	20-028	Low Grade		☐	☐	☐
213.50	215.00	1.50	VOL	1.41	94	W599908	☐	20-028	Low Grade		☐	☐	☐
215.00	216.50	1.50	VOL	1.46	97	W599909	☐	20-028	Low Grade		☐	☐	☐
216.50	218.00	1.50	VOL	1.50	100	W599910	☐	20-028	Low Grade		☐	☐	☐
218.00	218.70	0.70	VOL	0.69	99	W599912	☐	20-028	Low Grade		☐	☐	☐
218.70	220.00	1.30	VOL	1.19	92	W599913	☐	20-028	Low Grade		☐	☐	☐
220.00	221.50	1.50	VOL	1.44	96	W599914	☐	20-028	Low Grade		☐	☐	☐
221.50	223.00	1.50	VOL	1.47	98	W599915	☐	20-028	Low Grade		☐	☐	☐
223.00	224.50	1.50	VOL	1.39	93	W599916	☐	20-028	Low Grade		☐	☐	☐
224.50	226.00	1.50	VOL	1.47	98	W599917	☐	20-028	Low Grade		☐	☐	☐
226.00	227.50	1.50	VOL	1.45	97	W599919	☐	20-028	Low Grade		☐	☐	☐
227.50	228.50	1.00	VOL	0.98	98	W599920	☐	20-028	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
228.50	229.50	1.00	QFP	0.94	94	W599921	☐	20-028	Low Grade		☐	☐	☐
229.50	230.50	1.00	VOL	0.98	98	W599922	☐	20-028	Low Grade		☐	☐	☐
230.50	232.00	1.50	VOL	1.49	99	W599923	☐	20-028	Low Grade		☐	☐	☐
232.00	233.00	1.00	VOL	0.94	94	W599924	☐	20-028	Low Grade		☐	☐	☐
233.00	234.50	1.50	VOL	1.48	99	W599925	☐	20-028	Low Grade		☐	☐	☐
234.50	236.00	1.50	VOL	1.40	93	W599926	☐	20-028	Low Grade		☐	☐	☐
236.00	237.00	1.00	VOL	0.98	98	W599927	☐	20-028	Low Grade		☐	☐	☐
237.00	237.60	0.60	VOL	0.56	93	W599928	☐	20-028	Low Grade		☐	☐	☐
237.60	238.80	1.20	VOL, BXA	1.13	94	B700504	☐	20-011	High Grade		☐	☐	☐
238.80	239.92	1.12	BXA	1.08	96	B700505	☐	20-011	High Grade		☐	☐	☐
239.92	240.50	0.58	BXA	0.58	100	W599929	☐	20-028	Low Grade		☐	☐	☐
240.50	241.80	1.30	BXA	1.24	95	W599930	☐	20-028	Low Grade		☐	☐	☐
240.50	241.80	1.30	BXA	1.24	95	W599931	☐	20-028	Low Grade		☐	☐	☑
241.80	243.30	1.50	VOL	1.46	97	W599932	☐	20-028	Low Grade		☐	☐	☐
243.30	244.50	1.20	VOL	1.18	98	W599933	☐	20-028	Low Grade		☐	☐	☐
244.50	246.00	1.50	VOL	1.45	97	W599934	☐	20-028	Low Grade		☐	☐	☐
244.50	246.00	1.50	VOL	1.45	97	W599935	☐	20-028	Low Grade		☐	☑	☐
246.00	246.80	0.80	VOL	0.77	96	W599936	☐	20-028	Low Grade		☐	☐	☐
246.80	247.50	0.70	FLR, VOL	0.65	93	W599937	☐	20-028	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
247.50	249.00	1.50	FLR, BXA	1.38	92	W599939	☐	20-028	Low Grade		☐	☐	☐
249.00	250.49	1.49	BXA	1.39	93	W599940	☐	20-028	Low Grade		☐	☐	☐
250.49	251.46	0.97	BXA	0.94	97	W599941	☐	20-028	Low Grade		☐	☐	☐
251.46	252.90	1.44	BXA	1.44	100	W599942	☐	20-028	Low Grade		☐	☐	☐
252.90	253.50	0.60	BXA	0.48	80	W599943	☐	20-028	Low Grade		☐	☐	☐
253.50	255.00	1.50	BXA	1.32	88	W599944	☐	20-028	Low Grade		☐	☐	☐
255.00	256.03	1.03	BXA	0.98	95	W599945	☐	20-029	Low Grade		☐	☐	☐
256.03	257.50	1.47	BXA	1.46	99	W599946	☐	20-029	Low Grade		☐	☐	☐
257.50	259.00	1.50	BXA	1.39	93	W599947	☐	20-029	Low Grade		☐	☐	☐
259.00	260.50	1.50	BXA	1.46	97	W599948	☐	20-029	Low Grade		☐	☐	☐
260.50	262.00	1.50	BXA	1.44	96	W599949	☐	20-029	Low Grade		☐	☐	☐
262.00	263.50	1.50	BXA	1.50	100	W599951	☐	20-029	Low Grade		☐	☐	☐
263.50	265.00	1.50	BXA	1.48	99	W599952	☐	20-029	Low Grade		☐	☐	☐
265.00	266.50	1.50	BXA	1.42	95	W599953	☐	20-029	Low Grade		☐	☐	☐
266.50	268.00	1.50	BXA	1.50	100	W599954	☐	20-029	Low Grade		☐	☐	☐
268.00	269.50	1.50	BXA	1.50	100	W599955	☐	20-029	Low Grade		☐	☐	☐
269.50	271.00	1.50	BXA	1.35	90	W599956	☐	20-029	Low Grade		☐	☐	☐
271.00	272.00	1.00	BXA	1.00	100	W599957	☐	20-029	Low Grade		☐	☐	☐
272.00	273.00	1.00	BXA	1.00	100	W599958	☐	20-029	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
273.00	273.53	0.53	BXA	0.53	100	W599959	☐	20-029	Low Grade		☐	☐	☐
273.53	274.15	0.62	BXA	0.62	100	W599961	☐	20-029	Low Grade		☐	☐	☐
274.15	275.00	0.85	BXA, VOL	0.85	100	W599962	☐	20-029	Low Grade		☐	☐	☐
275.00	275.90	0.90	VOL	0.88	98	W599963	☐	20-029	Low Grade		☐	☐	☐
275.90	277.37	1.47	BXA, VOL	1.44	98	B700506	☐	20-011	High Grade		☐	☐	☐
277.37	278.80	1.43	BXA	1.43	100	W599964	☐	20-029	Low Grade		☐	☐	☐
278.80	280.30	1.50	BXA	1.42	95	W599965	☐	20-029	Low Grade		☐	☐	☐
280.30	281.50	1.20	BXA	1.20	100	W599966	☐	20-029	Low Grade		☐	☐	☐
281.50	283.00	1.50	BXA	1.50	100	W599967	☐	20-029	Low Grade		☐	☐	☐
283.00	284.50	1.50	FLR	1.44	96	W599968	☐	20-029	Low Grade		☐	☐	☐
284.50	286.00	1.50	FLR	1.50	100	W599970	☐	20-029	Low Grade		☐	☐	☐
286.00	287.50	1.50	FLR	1.50	100	W599971	☐	20-029	Low Grade		☐	☐	☐
287.50	289.00	1.50	FLR	1.45	97	B700507	☐	20-011	High Grade		☐	☐	☐
289.00	290.00	1.00	FLR	1.00	100	B700508	☐	20-011	High Grade		☐	☐	☐
290.00	291.50	1.50	FLR	1.45	97	B700509	☐	20-011	High Grade		☐	☐	☐
291.50	293.00	1.50	FLR	1.42	95	W599972	☐	20-029	Low Grade		☐	☐	☐
293.00	294.50	1.50	FLR	1.50	100	W599973	☐	20-029	Low Grade		☐	☐	☐
293.00	294.50	1.50	FLR	1.50	100	W599974	☐	20-029	Low Grade		☐	☐	☑
294.50	296.00	1.50	VOL	1.50	100	W599975	☐	20-029	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
296.00	297.50	1.50	VOL	1.50	100	W599976	☐	20-029	Low Grade		☐	☐	☐
297.50	299.00	1.50	VOL	1.50	100	W599977	☐	20-029	Low Grade		☐	☐	☐
299.00	300.50	1.50	VOL	1.50	100	W599978	☐	20-029	Low Grade		☐	☐	☐
300.50	302.00	1.50	VOL	1.50	100	W599979	☐	20-029	Low Grade		☐	☐	☐
300.50	302.00	1.50	VOL	1.50	100	W599980	☐	20-029	Low Grade		☐	☑	☐
302.00	303.50	1.50	VOL	1.47	98	W599981	☐	20-029	Low Grade		☐	☐	☐
303.50	305.00	1.50	VOL	1.45	97	W599982	☐	20-029	Low Grade		☐	☐	☐
305.00	306.32	1.32	VOL	1.27	96	W599983	☐	20-029	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-021	W599897	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-028	W599911	0.00	0.00	0.65	180	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-028	W599918	0.00	0.00	2.73	60	☐	☐	☐	☑ Klaza2020-B	klaza b
20-028	W599938	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-029	W599950	0.00	0.00	0.59	200	☐	☐	☐	☑ Klaza2020-A	klaza a
20-029	W599960	0.00	0.00	3.15	70	☐	☐	☐	☑ Klaza2020-B	klaza b
20-029	W599969	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-021	W599891	157.00	158.30	0.01	510	☐	☐	☐	☐	
20-021	W599892	158.30	158.80	0.03	470	☐	☐	☐	☐	
20-021	W599893	158.80	160.00	0.01	680	☐	☐	☐	☐	
20-021	W599894	160.00	161.50	0.00	1640	☐	☐	☐	☐	
20-021	W599895	161.50	163.00	0.02	800	☐	☐	☐	☐	
20-021	W599896	163.00	164.50	0.03	520	☐	☐	☐	☐	
20-021	W599898	164.50	165.25	0.01	530	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-021	W599899	165.25	166.12	0.05	660	☐	☐	☐	☐	
20-021	W599900	166.12	166.90	0.08	540	☐	☐	☐	☐	
20-021	W599901	166.90	168.00	0.03	510	☐	☐	☐	☐	
20-021	W599902	168.00	169.30	0.02	780	☐	☐	☐	☐	
20-011	B700502	169.30	170.00	0.10	490	☐	☐	☐	☐	
20-011	B700503	170.00	170.40	0.09	90	☐	☐	☐	☐	
20-021	W599903	170.40	171.88	0.01	750	☐	☐	☐	☐	
20-021	W599904	170.40	171.88	0.01	720	☑	☐	☐	☐	quarted dup
20-028	W599905	171.88	173.00	0.02	560	☐	☐	☐	☐	
20-028	W599906	210.71	212.00	0.02	1490	☐	☐	☐	☐	
20-028	W599907	212.00	213.50	0.04	990	☐	☐	☐	☐	
20-028	W599908	213.50	215.00	0.02	520	☐	☐	☐	☐	
20-028	W599909	215.00	216.50	0.02	550	☐	☐	☐	☐	
20-028	W599910	216.50	218.00	0.01	560	☐	☐	☐	☐	
20-028	W599912	218.00	218.70	0.01	570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-028	W599913	218.70	220.00	0.01	460	☐	☐	☐	☐	
20-028	W599914	220.00	221.50	0.00	660	☐	☐	☐	☐	
20-028	W599915	221.50	223.00	0.01	1780	☐	☐	☐	☐	
20-028	W599916	223.00	224.50	0.01	680	☐	☐	☐	☐	
20-028	W599917	224.50	226.00	0.01	610	☐	☐	☐	☐	
20-028	W599919	226.00	227.50	0.01	600	☐	☐	☐	☐	
20-028	W599920	227.50	228.50	0.01	310	☐	☐	☐	☐	
20-028	W599921	228.50	229.50	0.01	360	☐	☐	☐	☐	
20-028	W599922	229.50	230.50	0.03	500	☐	☐	☐	☐	
20-028	W599923	230.50	232.00	0.03	610	☐	☐	☐	☐	
20-028	W599924	232.00	233.00	0.01	710	☐	☐	☐	☐	
20-028	W599925	233.00	234.50	0.01	880	☐	☐	☐	☐	
20-028	W599926	234.50	236.00	0.00	850	☐	☐	☐	☐	
20-028	W599927	236.00	237.00	0.00	900	☐	☐	☐	☐	
20-028	W599928	237.00	237.60	0.02	740	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	B700504	237.60	238.80	0.01	1040	☐	☐	☐	☐	
20-011	B700505	238.80	239.92	0.02	1100	☐	☐	☐	☐	
20-028	W599929	239.92	240.50	0.10	490	☐	☐	☐	☐	
20-028	W599930	240.50	241.80	0.39	670	☐	☐	☐	☐	
20-028	W599931	240.50	241.80	0.39	660	☐	☑	☐	☐	coarse dup
20-028	W599932	241.80	243.30	0.72	520	☐	☐	☐	☐	
20-028	W599933	243.30	244.50	0.19	810	☐	☐	☐	☐	
20-028	W599934	244.50	246.00	0.36	580	☐	☐	☐	☐	
20-028	W599935	244.50	246.00	0.46	660	☑	☐	☐	☐	quarter dup
20-028	W599936	246.00	246.80	0.13	490	☐	☐	☐	☐	
20-028	W599937	246.80	247.50	0.77	190	☐	☐	☐	☐	
20-028	W599939	247.50	249.00	0.21	580	☐	☐	☐	☐	
20-028	W599940	249.00	250.49	0.03	820	☐	☐	☐	☐	
20-028	W599941	250.49	251.46	0.01	790	☐	☐	☐	☐	
20-028	W599942	251.46	252.90	0.02	830	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-028	W599943	252.90	253.50	0.04	670	☐	☐	☐	☐	
20-028	W599944	253.50	255.00	0.02	680	☐	☐	☐	☐	
20-029	W599945	255.00	256.03	0.04	710	☐	☐	☐	☐	
20-029	W599946	256.03	257.50	0.03	660	☐	☐	☐	☐	
20-029	W599947	257.50	259.00	0.08	640	☐	☐	☐	☐	
20-029	W599948	259.00	260.50	0.10	650	☐	☐	☐	☐	
20-029	W599949	260.50	262.00	0.05	700	☐	☐	☐	☐	
20-029	W599951	262.00	263.50	0.04	680	☐	☐	☐	☐	
20-029	W599952	263.50	265.00	0.02	670	☐	☐	☐	☐	
20-029	W599953	265.00	266.50	0.04	760	☐	☐	☐	☐	
20-029	W599954	266.50	268.00	0.04	830	☐	☐	☐	☐	
20-029	W599955	268.00	269.50	0.09	430	☐	☐	☐	☐	
20-029	W599956	269.50	271.00	0.10	970	☐	☐	☐	☐	
20-029	W599957	271.00	272.00	0.04	810	☐	☐	☐	☐	
20-029	W599958	272.00	273.00	0.05	750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-029	W599959	273.00	273.53	0.02	640	☐	☐	☐	☐	
20-029	W599961	273.53	274.15	0.03	420	☐	☐	☐	☐	
20-029	W599962	274.15	275.00	0.05	430	☐	☐	☐	☐	
20-029	W599963	275.00	275.90	0.04	350	☐	☐	☐	☐	
20-011	B700506	275.90	277.37	0.78	310	☐	☐	☐	☐	
20-029	W599964	277.37	278.80	0.24	500	☐	☐	☐	☐	
20-029	W599965	278.80	280.30	0.03	760	☐	☐	☐	☐	
20-029	W599966	280.30	281.50	0.08	880	☐	☐	☐	☐	
20-029	W599967	281.50	283.00	0.45	190	☐	☐	☐	☐	
20-029	W599968	283.00	284.50	0.79	180	☐	☐	☐	☐	
20-029	W599970	284.50	286.00	0.22	470	☐	☐	☐	☐	
20-029	W599971	286.00	287.50	0.20	170	☐	☐	☐	☐	
20-011	B700507	287.50	289.00	0.06	410	☐	☐	☐	☐	
20-011	B700508	289.00	290.00	0.23	180	☐	☐	☐	☐	
20-011	B700509	290.00	291.50	1.30	310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-029	W599972	291.50	293.00	0.04	1330	☐	☐	☐	☐	
20-029	W599973	293.00	294.50	0.04	1410	☐	☐	☐	☐	
20-029	W599974	293.00	294.50	0.04	1390	☐	☑	☐	☐	coarse rej
20-029	W599975	294.50	296.00	0.03	900	☐	☐	☐	☐	
20-029	W599976	296.00	297.50	0.01	1110	☐	☐	☐	☐	
20-029	W599977	297.50	299.00	0.02	670	☐	☐	☐	☐	
20-029	W599978	299.00	300.50	0.02	1110	☐	☐	☐	☐	
20-029	W599979	300.50	302.00	0.01	1140	☐	☐	☐	☐	
20-029	W599980	300.50	302.00	0.01	980	☑	☐	☐	☐	quarter dup
20-029	W599981	302.00	303.50	0.02	1350	☐	☐	☐	☐	
20-029	W599982	303.50	305.00	0.02	950	☐	☐	☐	☐	
20-029	W599983	305.00	306.32	0.02	1710	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
19.10	19.13	BN		60	NUL	1	band of weak py mineralization and silica alteration			
19.80	19.83	BN		70	NUL	1	band of weak py mineralization and silica alteration			
21.50	21.80	FO	49	60	NUL	10	shear or strain or weak folliation developing			
25.75	25.80	SH	81	60	NUL	1	band of sheared and limonite altered rock with localized patchy silica flooding. Bound on foot wall by silicified breccia			
63.70	63.75	FO	49	55	NUL	10	orientation of folliation developed I silicified fault shear. Surrounded by brecciated rock on either side			
118.60	118.80	BX	34	50	NUL	10	orientation of fractures in carbonate infilled breccia interval			
125.10	125.30	FO	49	60	NUL	10	folliation developed in silicified sheared rock fabric			
173.53	273.54	SH	81	65	NUL	2	sheared contact between carbonaceous layer and altered volcanics			
200.00	200.15	FT	42	45	NUL	1	rubbly fault			
203.10	203.40	FT	42	40	NUL	1	rubbly fault			
216.90	217.15	FO	49	60	NUL	10	folliation fabric in sheared rock, relithified			
227.50	227.75	FT	42	65	NUL	1	rubbly fault			
227.75	229.30	DY	37	65	NUL	1	fg qsp dyk			
237.70	239.90	BX	34	50	NUL	1	tourmaline(?) breccia			
240.50	246.05	DY	37	35	NUL	2	dark grey intermediate andesitic dyke, folliated with clasts of brecciated sericite altered intermediate volcanics			
255.90	256.00	VN	37	50	NUL	1	carbonate vein with small clasts of host rock, somewhere between a vein and a breccia, trace dark metalic mineral, Galina or Hematite			
								Un	0.1	DI
266.70	267.30	FO	49	70	NUL	10	folliation			
267.70	268.70	FR	5	25	NUL	6	low angle fractures filled with carbonate			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
272.90	272.95	FO	49	70	NUL	3	fracture along carbonaceous layers			
301.00	306.00	FR	5	20	NUL	5	carboante infill			
	306.00	FR	5	10	NUL	5	carbonate infill			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383384	6890244	1309	320.04

ZONE: Exploration

SECTION:

HOLE: KL -20-479

CLAIM: YD09220

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 6.1m, Out

Drilling Dates: Sep 14 - Sep 18, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Pearl vein system extension

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.92	0.92	CAS
0.92	60.1	59.18	OVB
60.1	77.86	17.76	GRD
77.86	79.16	1.3	FLT
79.16	80.91	1.75	GRD
80.91	89.03	8.12	GRD
89.03	98.84	9.81	GRD
98.84	102.24	3.4	QFP
102.24	117.11	14.87	GRD
117.11	129.63	12.52	QFP
129.63	131.07	1.44	GRD
131.07	131.82	0.75	QFP
131.82	159.52	27.7	GRD
159.52	162.55	3.03	BXA
162.55	191.89	29.34	GRD
191.89	197.56	5.67	GRD

SAMPLES	
Numbers:	B700718 to B700735, W594925 to W595000, W595501 to W595641
Total:	235
Batch:	022, 026, 027, 030, 031, 033, 034
Certificates:	WH20215143, WH20215147, WH20215149, WH20215150, WH20224759, WH20224788, WH20224809

COMMENTS
Handheld GPS accuracy of 1.9m

197.56	223.74	26.18	GRD
223.74	223.84	0.1	VEN
223.84	240.7	16.86	GRD
240.7	242.08	1.38	QFP
242.08	242.28	0.2	GRD
242.28	245.93	3.65	GRD
245.93	260.39	14.46	GRD
260.39	260.72	0.33	VEN
260.72	320.04	59.32	GRD

Box Log

KL -20-479

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.92	4
2	4	7.22
3	7.22	10.33
4	10.33	13.71
5	13.71	16.76
6	16.76	21.04
7	21.04	24.38
8	24.38	27.43
9	27.43	30.75
10	30.75	34.2
11	34.2	37.3
12	37.3	40.53
13	40.53	43.6
14	43.6	46.91
15	46.91	50.29
16	50.29	53.56
17	53.56	56.86
18	56.86	60.22
19	60.22	63.52
20	63.52	66.6
21	66.6	70.72
22	70.72	74.41
23	74.41	78.04
24	78.04	82.2
25	82.2	85.5
26	85.5	89.61
27	89.61	93.52
28	93.52	97.7
29	97.7	101.76
30	101.76	105.92
31	105.92	110.31
32	110.31	114.43
33	114.43	118.23
34	118.23	121.92
35	121.92	125.62
36	125.62	129.5
37	129.5	132.91
38	132.91	136.72
39	136.72	140.82
40	140.82	144.95
41	144.95	149.03
42	149.03	153.27
43	153.27	157.5
44	157.5	161.65
45	161.65	165.63
46	165.63	170.2
47	170.2	173.87
48	173.87	178.07
49	178.07	182.2
50	182.2	186.27
51	186.27	190.38
52	190.38	193.94
53	193.94	197.61
54	197.61	201.68
55	201.68	205.7
56	205.7	210.31
57	210.31	214.19
58	214.19	218.19
59	218.19	222.26
60	222.26	226.29
61	226.29	230.56
62	230.56	234.52
63	234.52	238.57
64	238.57	242.53
65	242.53	246.81
66	246.81	250.9
67	250.9	254.96
68	254.96	259.08
69	259.08	263.24
70	263.24	267.52
71	267.52	271.76
72	271.76	275.8
73	275.8	280.11
74	280.11	284.67
75	284.67	288.72
76	288.72	292.59
77	292.59	296.62
78	296.62	300.68
79	300.68	304.8
80	304.8	308.86
81	308.86	312.89
82	312.89	317.32
83	317.32	320.04
84	-999	-999

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-479									
	100.85	21	NTW	QFP	1333.6	817.2	2.25	2.6	qfp dyke material, light buff grey green, common quartz and feldspar penocrysts up to .5cm. Weakly clay-sericite altered.
	133.39	20.3	NTW	GRD	1340.4	840.1	2.34	2.7	clay altered med-coarse grained grd
	142.1	26	NTW	GRD	1568	965.6	2.13	2.6	clay altered medium grained granodiorite with thin dark grey fine grained sillicified quartz veinlets and pyrite within
	167.65	17	NTW	GRD	1205.7	740.9	2.51	2.6	clay altered granodiorite
	171.7	12	NTW	GRD	940.9	589.7	2.77	2.7	fine grained granodiorite
	217.45	11.5	NTW	GRD	1260.1	797	3.88	2.7	Granodiorite with minor pyrite and clay alteration
	223.75	8.5	NTW	VEN	1081.5	762.1	4.5	3.4	5cm 80% sulphides 20% quartz vein, 3cm quartz vein, 4cm weakly mineralized granodiorite.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
######	######	0.00	GRD	CG	-999							
											Sp	1
											Gn	0.1
											Py	8
0.00	0.92	0.92	CAS	--	No core recovered.							
0.92	3.05	2.13	OVB	--	Top of hole - dark black to brown dirt and soil with 2 small pieces of core that are 2 cm wide.							
3.05	4.66	1.61	OVB	--	Granodiorite and ovb - Granodiorite is coarse grained and has trace chloritic alteration. OVB - is sand and residual soil. Granodiorite - 60%, Residual soil - 40%.							
						LT	GY		CHL	1I		
4.66	7.00	2.34	OVB	--	OVB + Granodiorite. This granodiorite is heavily stained with MnOx.							
						DK	BL		OXI	4I		
7.00	9.26	2.26	OVB	--	OVB - with some very minor granodiorite. Predominantly rusty orange.							
						MD	OR					
						DK	OR		LIM	4I		
9.26	10.67	1.41	OVB	--	OVB + granodiorite. Predominantly ovb that is light to medium brown. The granodiorite is fairly fresh and un-altered besides some trace chloritic alteration.							
						MD	BR		CHL	1I		
						DK	BR					
10.67	12.34	1.67	OVB	--	OVB + granodiorite - mostly granodiorite. Granodiorite is coarse grained and has strong MnOx alteration. Locally also has patchy strong limonite alteration.							
						MD	OR		LIM	2I		
						MD	BR		OXI	4I		
						DK	BL					
12.34	21.60	9.26	OVB	--	OVB + granodiorite. Granodiorite is coarse grained and fairly un-altered. Locally there is limonite, potassic as well as clay alteration. All are overall weak.							
						MD	BR		LIM	2I		
						MD	OR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		POT	2I		
						DK	BR		CLY	2I		
21.60	33.66	12.06	OVB	--	OVB + Granodiorite. Predominanlty resiual soil. Granodiorite is coarse grained and fairly altered throughout. Predominanlty we see MnOx coming in along fracture surfaces - strong. Patchy limonite alteration as well.							
						MD	BR		OXI	3I		
						LT	GY					
						DK	BK					
						DK	BR					
33.66	60.10	26.44	OVB	--	OVB + granodiorite. Predominantly ovb with some granodiorite - the granodiorite is coarse grained and is variable altered throughout this interval. Predominatly we see a mix of oxidization - limonite and MnOx. We also see some chloritic alteration as well as some potassic.							
						MD	OR		CLY	1I		
						MD	BR		POT	1I		
						LT	GY		LIM	3I		
						DK	BR		CHL	1I		
60.10	65.35	5.25	FLT	CG	Faulted and altered granodiorite. It is pervasively limonite altered throughout this interval except a few small places where it is strongly clay altered (white - cream). It is very sandy and crumbly till 61.60 m. Possible chunk of cave at 65.23 - appears to be the same granodiorite as in the ovb.							
						MD	OR		LIM	4I		
						LT	CR					
						DK	OR					
65.35	66.08	0.73	FLT	FG	Small interval of fine grained granodiorite. Is olive green in color and is very rubbly.							
						MD	OR					
						MD	GN		LIM	2I		
						DK	GN					
66.08	68.58	2.50	FLT	CG	Predominantly limonite altered granodiorite that is decreasing as we go down interval. The granodiorite is coarse grained. In areas of less oxidization we see strong clay alteration. Very rubble and some minor gouge.							
						MD	OR		LIM	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	YW					
						LT	CR					
						DK	OR		CLY	1I		
68.58	70.95	2.37	FLT	CG	Faulted / altered granodiorite that is more competent. We also see less limonite alteration in this zone. There is strong clay alteration giving a yellow/ cream color. Limonite is occurring along fracture surfaces as well as local patches. In this interval we also see MnOx coming in along fracture surfaces.							
						MD	OR					
						LT	CR		CLY	4I		
						LT	YW		LIM	2I		
70.95	77.86	6.91	FLT	CG	Faulted and altered granodiorite. Strong pervasive limonite alteration occurring at the start of the interval and decreasing as we go down interval. Fracture surfaces have strong limonite alteration as well MnOx. In areas of less oxidization we see strong clay alteration with a yellow/ cream hue. This interval is getting more rubbly as we go interval. The lower contact is sharp with a dyke?							
						MD	OR					
						LT	CR	PH	LIM	4I		
						LT	YW		CLY	4I		
						DK	OR					
77.86	79.16	1.30	FLT	FG	Possible dyke? Looks very similar to dyke lower in the hole but hard to tell due to faulting and alteration. This unit is very fine grained and is pervasively limonite altered giving it a dark brown/ orange coloration. We also see MnOx coming in along fracture surfaces, locally dentric in nature (pyrolusite?). The unit is very fractured and rubbly. This unit has phenocrysts that are clay altered and are cream colored in a very fine grained matrix.							
						DK	BR	PO	LIM	5I		
						DK	OR					
79.16	80.91	1.75	GRD	CG	Faulted / altered granodiorite. This unit is strongly limonite altered.This is the end of the fault. In less oxidized areas we see strongly clay alteration - giving a white/ cream color.							
						MD	OR		LIM	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	YW					
						LT	CR					
						DK	OR	PH	CLY	3I		
80.91	85.93	5.02	GRD	CG	Pervasively limonite altered granodiorite as well its stronly clay altered that has been limonite stained . At 84.85 to 85.60 there is a small fault zone with rubble at the upper contact and some minor competent core and then rubble at the lower contact.							
						MD	OR					
						DK	OR	PH	LIM	5I		
85.93	87.18	1.25	GRD	CG	In this section we see black biotite alteration throughout - 5% in this interval. The lower contact of this unit is sharp and we see the disappearance of the biotite.							
						MD	OR	PH	LIM	4I	Bi	5
						LT	GY					
87.18	89.03	1.85	GRD	CG	In this zone of granodiorite we see strong clay alteration - white to a light green and light yellow coloration. At the top of the interval to 87.37 m we see dark brick red blebs around the clay alteration. After 87.37 we lose that coloration and it becomes light grey to light rusty orange due to limonite alteration. As we go down interval the limonite alteration increases.							
						LT	GY					
						LT	OR					
						LT	YW					
						LT	CR					
						DK	RD	PH	LIM	3I		
						DK	BR		CLY	4I		
89.03	92.12	3.09	FLT	FG	Faulted section - Gouge - 20%, Rubble - 50%, and competent core - 30%. This zone is pervasively limonite altered.							
						MD	OR	RB				
						DK	OR	AN	LIM	4I		
92.12	95.85	3.73	GRD	FG	Light to medium to dark grey - faily unaltered zone of granodiorite besides the calcite coming in along fracture surfaces as well as the limonite coming in along the fracture surfaces.							
						MD	GY					
						LT	GY	AN	LIM	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY					
95.85	96.97	1.12	GRD	FG	Interval of granodiorite where we see a few (~6) pyrite stringers as well as a pyrite veinlet with white calcite associated with the veins. The stringers are 1 mm wide while the veinlet is 7 mm wide. Pyrite/ galena stringer is at 96.93 - 96.96 m. The veinlet has pyrite but also a bit of galena with the pyrite. The stringers have a dark black haloing around them.							
						MD	GY					
						LT	GY	AN			Py	0.3
						DK	BL				Gn	0.01
96.97	98.84	1.87	GRD	FG	Same as general lith with local patchy limonite staining.							
98.84	99.46	0.62	QFP	FG	In this zone we see a dyke that is foliated and shows flow texture as the foliation is undulating locally. The coloration is medium green to medium brown. This dyke is porphyritic with large white crystals floating in a fine grained matrix. Phenocrysts are clay altered. Sharp lower contact.							
						MD	BR	PO	LIM	4I		
						MD	GN					
						DK	GN					
99.46	101.91	2.45	QFP	FG	In this zone the dyke is light green to light grey in coloration. It is also porphyritic with light green phenocrysts that have been clay altered. There is also glassy grey quartz phenocrysts. 100.13 to 100.46 m we see fracturing with gouge infilling. Sharp lower contact with the foliated dyke.							
						LT	GN	PO				
						LT	GY					
101.91	102.24	0.33	QFP	FG	There is a transition zone from the above non-foliated dyke to the more foliated dyke. In this section we also loss the porphyritic texture (10.92 to 102.11 m). After this point we see the same foliation as above and the brown color. There is also a 4 - 8 cm wide gouge zone at the end of the dyke.							
						MD	BR					
						LT	GN	AN				
102.24	102.91	0.67	GRD	CG	Zone of green / blue strong clay alteration.							
						LT	GN	PH				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BL					
102.91	103.27	0.36	GRD	CG	Zone of clay alteration that is light brown.							
						LT	BR	PH				
						LT	GY					
103.27	104.00	0.73	BXA	CG	Small breccia zone. Gouge along fracute surfaces - 10%.							
						LT	GY					
104.00	106.10	2.10	GRD	CG	Clay alteration is predominantly white but locally light green/ blue. In this zone we also have zones of fine grained ?Apalite dykes? With sharp contacts.							
						LT	BL	PH	CLY	4I		
						LT	GN	AN				
						LT	GY					
						LT	WH					
106.10	108.98	2.88	GRD	CG	Alternating between light/ green and light blue clay alteration and white.							
						LT	GN	PH	CLY	4I		
						LT	BL					
						LT	WH					
						LT	GY					
108.98	110.26	1.28	GRD	MG	Zone of moderate chlorite alteration and potassic alteration giving the core a more massive looking texture. There is also some trace hematite in this interval as well.							
						LT	GY					
						LT	PK					
						LT	PU					
						LT	GN					
						LT	BL					
110.26	110.62	0.36	GRD	CG	Zone of white clay and light purple/ red around the white.							
						MD	RD					
						MD	PU					
						LT	WH	PH	CLY	4I		
110.62	110.92	0.30	GRD	MG	Zone of alteration that is washing out original texture. Weak chlorite alteration as well as some patchy hematite staining. That is locally very magnetic.							
						LT	PK		CHL	2I	He	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		POT	3I		
						LT	BL					
110.92	112.07	1.15	GRD	CG	Mix of white and blue/ green clay alteration.							
						LT	BL	PH	CLY	4I		
						LT	GN					
						LT	GY					
						LT	WH					
112.07	114.03	1.96	FLT	CG	Zone of faulted granodiorite with gouge coming in along fracture surfaces.							
						LT	GY		CLY	4I		
114.03	115.71	1.68	GRD	CG	light green/ blue clay alteration.							
						LT	GN	PH	CLY	4I		
						LT	GY					
						LT	BL					
115.71	115.83	0.12	-?-	FG	Possible small dyke? Light grey and fine grained with small dark grey phenocrysts.							
						LT	GY	PO				
115.83	117.11	1.28	GRD	CG	Light green / blue clay alteration.							
						LT	GN	PH	CLY	4I		
						LT	BL					
						LT	GY					
117.11	118.33	1.22	QFP	FG	Light green with a brown tinge. Local hematite staining as well as white phenocrysts that have been clay altered. Locally appears slightly foliated.							
						MD	RD					
						MD	PU					
						LT	GN	PO				
						LT	BR					
118.33	119.08	0.75	QFP	FG	Zone of foliated dyke with light green coloration and patchy brown alteration.							
						MD	BR					
						LT	GN					
119.08	122.65	3.57	QFP	FG	Light grey dyke with strong porphyritic texture. Phenocrysts are light green/ blue coloration to white (similar to the granodiorite). In addition there are glassy grey quartz phenocrysts. There is also a small zone of brecciation at 119.30 to 119.50 m. Sharp lower contact with foliated dyke.							
						LT	GY	PO				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	BL					
						LT	WH					
122.65	123.86	1.21	QFP	FG	Foliated dyke that is near sub parallel tca forms a banded texture.							
						LT	GN					
						LT	GY					
123.86	124.97	1.11	FLT	FG	Fault in the dyke. Gouge - 15%, and Rubble - 85%.							
						LT	GY					
						LT	GN					
124.97	126.19	1.22	QFP	FG	Light green / grey with porphyritic texture just less phenocrysts than the interval below. The phenocrysts are light green / blue in color and clay altered.							
						LT	GY	PO	CLY	2I		
						LT	GN					
126.19	128.37	2.18	QFP	FG	Zone of stronger porphyritic texture with larger phenocrysts. Phenocrysts are light green/ blue in color and clay altered.							
						LT	GY		CLY	3I		
						LT	GN					
						LT	BL					
128.37	128.93	0.56	FLT	FG	Zone of fault - predominantly gouge - lower contact is 40 degrees tca.							
						LT	GY					
						LT	GN					
128.93	129.03	0.10	QFP	FG	Light green less porphyritic.							
						LT	GN	PO				
129.03	129.20	0.17	QFP	FG	Zone of stronger porphyrtic texture with increased number of phenocrysts. Sharp lower contact with foliated dyke.							
						LT	GN	PO				
129.20	129.63	0.43	QFP	FG	Zone of foliated dyke - 30 degrees tca showing flow texture.							
						LT	GN					
						LT	GY		LIM	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
129.63	131.07	1.44	GRD	CG	Altered granodiorite. Light grey in color with light green/ light blue clay alteration to phenocrysts. The last half of this interval is rubbled and broken. Local potassic alteratio - occurring in the lower half of the interval. There is also some trace chloritic alteration. Weak limonite alteration along fracture surfaces. Sharp lower contact with dyke.							
						LT	GY	PH	CLY	4I	Py	0.1
						LT	BL		CHL	1I		
						LT	PU		POT	2I		
						LT	GN		LIM	1I		
131.07	131.82	0.75	QFP	FG	Light grey/ green porphyritic dyke that is weakly foliated showing flow texture. The phenocrysts are white and are clay altered. We also see weak limonite alteration							
						LT	GY	PO	CLY	2I		
						LT	GN					
131.82	132.34	0.52	GRD	CG	Zone of strong clay alteration that is light blue / green in color as well as some weak potassic alteration.							
						LT	BL	PH	CLY	4I		
						LT	GN		POT	2I		
						LT	GY					
132.34	134.24	1.90	GRD	CG	Area of moderate chloritic alteration giving core medium green color as well there is moderate light green/ blue clay alteration. As well there is some weak potassic alteration.							
						MD	GN	PH	CLY	3I		
						LT	GN		POT	2I		
						LT	PU					
						LT	BL		CHL	2I		
134.24	136.18	1.94	GRD	CG	Strong white clay alteration with moderate potassic alteration and local biotite after 135.18 m.							
						MD	PU		POT	3I		
						LT	WH	PH	CLY	4I		
136.18	136.59	0.41	GRD	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration. In this zone there is also a galena veinlet at 136.26 - 136.27 m.							
						MD	GN	PH	CLY	3I	Gn	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PU		CHL	3I		
									POT	1I		
136.59	138.11	1.52	GRD	CG	Zone of strong clay alteration (white) and moderate to strong potassic alteration.							
						LT	WH	PH	CLY	4I		
						LT	PU		POT	3I		
						LT	PK					
138.11	139.78	1.67	GRD	CG	Alternating zones of more chloritic rich with potassic alteration and zones of strong white clay alteration with potassic alteration but predominantly the chloritic alteration. There is also a pyrite sulphide vein at 138.35 - 138.37 m. Local concentations of black biotite - trace.							
						MD	GN		CLY	3I	Py	0.5
						LT	PU		CHL	3I		
						LT	WH		POT	3I		
139.78	141.24	1.46	GRD	CG	Strong white clay alteration with moderate potassic alteration. There is also trace black biotite locally in this interval. There is also light grey glassy quartz veinlet in this interval.							
						LT	WH	PH	CLY	4I		
						LT	PU		POT	3I		
						LT	PK					
141.24	141.83	0.59	GRD	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration.							
						MD	GN					
						LT	GN	PH	CLY	2I		
						LT	PU		CHL	3I		
						LT	BL		POT	2I		
141.83	145.44	3.61	GRD	CG	Zone of strong white clay alteration with moderate potassic alteration. Locally the clay is light green blue in color. There is a small fault zone with a sulphide vein at 143.26 - 143.49 m. The vein is 1 cm wide and is just pyrite. There is also some trace blebby hematite in this interval. This interval also has a glassy grey quartz veinlet with pyrite inside.							
						LT	WH	PH	CLY	4I	He	0.01
						LT	GN					
						LT	PK		POT	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BL					
						LT	PU					
145.44	146.43	0.99	GRD	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration. There is local hematite staining in this interval as well.							
						MD	GN	PH	CLY	4I		
						LT	GN		POT	2I		
						LT	PU		CHL	3I		
						LT	PK					
146.43	147.38	0.95	FLT	CG	Smalll breccia zone with gouge occurring along the fracture surfaces. At the end of the interval see see rubble and broken up core.							
						MD	GN	PH	CHL	2I		
						LT	GN		CLY	3I		
						LT	BL					
						LT	WH		---	--		
147.38	147.81	0.43	GRD	CG	Zone of strong white clay alteration with some minor blue/ green clay as well as moderate potassic alteration.							
						LT	WH	PH	CLY	4I		
						LT	PK		POT	3I		
						LT	PU					
						LT	BL					
						LT	GN					
147.81	150.57	2.76	GRD	CG	Zone of chloritic alteration giving the core a green tinge. There moderate potassic alteration. There is also some trace black biotite disseminated in this unit. The lower contact is gradational with clay clay alteration and more potassic alteration coming in. At the lower contact we loss some of the potassic alteration and the unit becomes more chloritic altered. This interval also has a few pyrite stringers as well as a sulphide / quartz veinlets with pyrite, spalerite and galena occurring at 150.14 - 150.19 m. Quartz is grey and white.							
						MD	GN	PH	CLY	2I	Py	0.3
						MD	GY		CHL	4I	Gn	0.01
						MD	PU		POT	3I	Sp	0.01
						MD	PK					
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
150.57	151.33	0.76	GRD	CG	Zone of strong white clay alteration as well as moderate to strong potassic alteration with some local blue/ green clay alteration. Sharp lower contact. This unit also has trace disseminated black biotite.							
											Bi	0.1
151.33	151.77	0.44	GRD	CG	Zone of strong chloritic alteration also moderate potassic alteration. There is also trace disseminated black biotite in this interval. Pyrite coming in as stringer along fractures. There is also some hematite coming in along fracture surfaces.							
											Py	0.01
											Bi	0.1
151.77	153.36	1.59	GRD	CG	Zone of strong white as well as trace blue/ green clay alteration with strong to moderate potassic alteration. Black biotite is disseminated in this interval. Sharp lower contact. Pyrite and hematite coming in along fracture surfaces forming stringers.							
											He	0.01
											Py	0.01
											Bi	0.1
153.36	154.49	1.13	GRD	CG	Zone of strong chloritic alteration also moderate potassic alteration. There is also trace disseminated black biotite in this interval. Locally there is less potassic alteration and there is light green / blue clay alteration instead. This interval also has pyrite stringers.							
											Bi	0.1
											Py	0.1
154.49	155.76	1.27	GRD	CG	Zone of strong white clay alteration as well as local weak blue / green clay alteration. In this interval we see weak potassic alteration. As well we have trace biotite - black and disseminated.							
155.76	156.14	0.38	BXA	CG	Small breccia zone with gouge coating fracture surfaces as well as a large gouge zone 7 cm wide - in this gouge zone we see a large bleb of pyrite - 2.5 cm wide. The pyrite forms a oval shape.							
											Py	3.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
156.14	159.52	3.38	GRD	CG	Zone of strong white clay alteration as well as some patchy local blue/ green. There is weak to moderate potassic alteration as well as patchy local black biotite occurring disseminated. There is also patchy hematite coming in along fracture surfaces as well as local blebs. At the lower contact we see gouge coming in along fracture surfaces.							
											Bi	0.1
											Py	0.1
											He	0.01
159.52	162.55	3.03	BXA	CG	Brecciated granodiorite. Strong blue / green clay alteration. Pyrite in local clustering.							
						LT	GN	PH	CLY	3I	Py	0.1
						LT	GY	BX				
						LT	BL					
162.55	165.34	2.79	GRD	CG	At near the start of this interval after the brecciation we see dark grey (almost cherty to glassy) quartz veining. Pyrite is associated with with veining as well as some blebby sphalerite and trace galena.							
											Py	1
											Sp	0.1
											Gn	0.01
165.34	165.38	0.04	VEN	CG	Sphalerite vein with some minor pyrite associated with it as well as galena. There is some minor calcite associated with the sulphide vein as well. At the end of the sulpide vein there is a small 0.5 cm wide glassy grey quartz vein.							
											Gn	0.1
											Py	0.3
											Sp	3
165.38	165.89	0.51	GRD	CG	Same as 162.55 - 165.34 m. Potassic alteration coming in along the lower contact.							
165.89	167.29	1.40	GRD	CG	Strong clay alteration - white as well as local patches of blue/ green clay. This interval has moderate to strong patchy potassic alteration. Sharp lower contact.							
167.29	167.64	0.35	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
167.64	168.51	0.87	GRD	CG	Strong clay alteration that is patchy white as well as light blue / green with moderate to strong potassic alteration.							
168.51	168.85	0.34	GRD	CG	Moderate chlorite alteration giving core a medium green color. Moderate potassic alteration. The top and bottom contacts are gradational. Small 0.5 mm wide pyrite stringer in the middle of this interval.							
											Py	0.1
168.85	169.86	1.01	GRD	CG	Strong clay alteration - occurring as white as well as patchy light blue / green. There is strong to moderate potassic alteration. 2 small sulphide veins at 169.23 - 169.25 m and 169.54 - 169.55 m. The first vein is made up of pyrite and a bit of galena. The second vein is predominantly galena with a very minor bit of pyrite.							
											Py	0.5
											Gn	1.5
169.86	170.77	0.91	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. This interval is a bit broken up at the end of the interval. Sharp lower contact.							
170.77	171.48	0.71	GRD	CG	Strong white clay alteration with local weak light blue/ green clay alteration as well as moderate to strong potassic alteration. Sharp lower contact.							
171.48	173.67	2.19	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. Stringer of pyrite and black jack sphalerite at 173.16 - 173.19 m. Sharp lower contact.							
173.67	176.72	3.05	GRD	CG	Strong clay alteration - light green / blue in color. More massive in nature. This interval has several sulphide veins. At 174.49 to 174.55 m small breccia zone. Sulphide veins are 3 mm to 1.3 cm wide. Veins are made up of pyrite, black jack sphalerite, and some minor galena.							
											Sp	0.1
											Gn	0.01
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
176.72	177.92	1.20	GRD	CG	Strong white clay alteration with some patchy weak blue / green as well. Strong to moderate potassic alteration. Gradational lower contact.							
177.92	178.77	0.85	GRD	CG	Strong blue/ green clay alteration at the start and end of the inerval and then strong chlorite alteration giving core a medium green color. Moderate potassic alteration.							
178.77	179.80	1.03	GRD	CG	Moderate to strong potassic alteration. Strong in sections where we see more pink coloration and more moderate to light purple in coloration. Strong clay alteration - predominantly light blue/ green but also white in color. Trace chloritic alteration. Sharp lower contact.							
179.80	184.20	4.40	GRD	CG	Strong light blue / green clay alteration. Patchy trace chloritic alteration. Weak potassic alteration is coming in near the lower contact.							
184.20	185.93	1.73	GRD	CG	*Note the sulphide veins are predominantly occurring in these zones of strong chlorite alteration. Strong chlorite alteration giving core a medium green color as well as strong light blue / green clay alteration. In this zone we see sulphide veining of pyrite, sphalerite and galena.						Gn	0.01
											Py	0.1
											Sp	0.1
185.93	186.35	0.42	GRD	CG	Strong clay alteration - white and some light blue / green. Moderate potassic and some patchy chlorite alteration .							
186.35	186.97	0.62	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.							
186.97	187.64	0.67	GRD	CG	Strong clay alteration - white and some light blue / green. Moderate potassic and some patchy chlorite alteration .							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
187.64	191.04	3.40	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. Local strong white clay alteration. 2 broken sulphide veins occurring near the end of the interval - 7 mm to 1 cm wide. The first vein is made up of quartz - cherty grey and galena. The second veins is made up of grey cherty quartz, black jack sphalerite and pyrite.							
											Gn	0.01
											Sp	0.01
											Py	0.01
191.04	191.53	0.49	GRD	CG	Strong potassic and white clay alteration with local blue/ green clay alteration.							
191.53	191.89	0.36	GRD	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.							
191.89	193.48	1.59	FLT	CG	Strong clay alteration - light green/ blue. Broken up sulphide vein in this interval - pyrite.							
											Py	0.5
193.48	193.61	0.13	BXA	CG	Breccia zone with disseminated pyrite.							
											Py	0.5
193.61	194.12	0.51	FLT	CG	Strong clay alteration - light green/ blue. Sharp lower contact.							
194.12	197.56	3.44	FLT	CG	Strong white clay alteration as well as potassic alteration with black biotite disseminated. Small breccia zone at 197.08 to 197.27 m.							
197.56	201.58	4.02	GRD	CG	Strong chloritic alteration giving the core a medium green color. Moderate potassic alteration as well as local patchy white clay alteration. Black biotite occurring disseminated in this unit. Pyrite coming in along fracture surfaces. Gradational lower contact.							
201.58	204.49	2.91	GRD	CG	Patchy chlorite alteration with strong light blue/ green clay alteration. Sulphides are occurring with quartz veining in this interval. Local trace patchy hematite. Gradational lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
204.49	207.28	2.79	GRD	CG	Strong white clay alteration as well as patchy light blue/ green. Weak to moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact. Pyrite stringers are occurring in this interval.							
											Bi	0.1
											Py	0.01
207.28	207.87	0.59	GRD	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay alteration. 7 mm wide pyrite and sphalerite veinlet in the middle of the interval.							
207.87	211.01	3.14	GRD	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact. Pyrite stringers are occurring in this interval.							
											Bi	0.1
											Py	0.1
211.01	211.30	0.29	GRD	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay alteration. Disseminated black biotite in this interval as well.							
211.30	213.98	2.68	GRD	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact.							
213.98	214.78	0.80	BXA	CG	Breccia zone inside another altered zone of moderate chlorite with strong clay alteration of light blue / green. 214.27 - 214.39 is a strong breccia zone with clay gouge and clast floating in the gouge.							
214.78	216.50	1.72	GRD	CG	Zone of light blue / green strong clay alteration. We also see weak potassic alteration. Sharp lower contact.							
216.50	218.36	1.86	GRD	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay aleration. This interval has a few sulphide veins - pyrite, sphalerite and galena.							
											Py	0.5
											Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.01
218.36	220.54	2.18	GRD	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact.							
220.54	221.32	0.78	GRD	CG	Zone of weak chlorite alteration with local moderate to strong light green / blue clay aleration. At 221.00 - 221.06 m is a quartz vein - milky white to grey with pyrite, sphalerite and galena.							
											Py	0.1
											Sp	0.01
											Gn	0.01
221.32	223.08	1.76	GRD	CG	Strong light blue/ green clay alteration. Moderate to locally strong potassic alteration. Black biotite is locally disseminated in this interval. Gradational lower contact.							
223.08	223.74	0.66	GRD	CG	Zone of weak chlorite alteration with local moderate to strong light green / blue clay aleration. Sharp lower contact with sulphide vein.							
223.74	223.84	0.10	VEN	CG	Sulphide and quartz vein. Quartz is milky white to light grey in color. Sulphides are chalcopyrite and pyrite. There are occurring in bands that are beside on another but are separate from one another.							
											Py	10
											Cp	9
223.84	224.30	0.46	GRD	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration.							
224.30	228.16	3.86	GRD	CG	Zone of strong light blue/ green clay alteration with moderate to strong potassic alteration. There are local patches of chlorite coming in along fracture surfaces. Local disseminated black chlorite in this interval as well. Grey cherty quartz veins are found throughout this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
228.16	231.87	3.71	GRD	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. This interval has fracturing with calcite infilling. As well we see fracturing with a small amount of gouge coming along the surfaces. There is a milky white and glassy grey quartz veining with mineralization - pyrite, galena and sphalerite. The vein is also offset by 5 cm. Before the vein there is sheeted grey quartz veinlets. Pyrite veinlet at 230.45 - 230.47 m with galena.							
											Py	0.5
											Sp	0.1
											Gn	0.1
231.87	233.16	1.29	GRD	CG	Zone of light blue / green strong clay alteration with moderate potassic alteration. Gradational lower contact.							
233.16	237.44	4.28	GRD	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. Sulphide veining occurring in this interval. 233.82 - 233.92 m - pyrite stringer and some trace black jake sphalerite. 234.42 - 234.44 m - bleb of chalcopyrite inside a grey cherty quartz vein. Minor rubble and gouge at 235.82 - 236.20 m.							
											Py	0.5
											Cp	0.1
237.44	237.88	0.44	VEN	CG	Sulphide vein zone hosted in granodiorite. 75% sulphides. Pyrite, sphalerite, galena and chalcopytie. Sphalerite is of the black jack varity.							
											Py	10
											Cp	0.1
											Sp	4
											Gn	0.1
237.88	238.57	0.69	GRD	CG	Strong white and then at 238.38 m we transition to light green / blue clay alteration with patchy weak chlorite alteration.							
238.57	238.86	0.29	VEN	CG	Quartz and sulphide veining. Grey glassy and white quartz. Sulphides are pyrite and sphalerite.							
											Py	3.5
											Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
238.86	240.70	1.84	GRD	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. This unit is weakly brecciated with clay infilling along fractures. This interval has dark grey glassy quartz veining.							
240.70	242.08	1.38	QFP	CG	Green/ grey QFP dyke with argillic alteration that is light green/ blue in color. Quartz phenocrysts are glassy grey in color. Unit is brecciated.							
						MD	BF					
						MD	GY					
						LT	GN	PO				
						LT	GY					
242.08	242.28	0.20	GRD	CG	Quartz and sulphide veining. Light grey and white quartz with pyrite. Gouge is occurring at the upper and lower contact of this vein.							
						MD	GY					
						LT	GY				Py	3
						LT	WH					
242.28	245.93	3.65	GRD	CG	Zone of alternating alteration - there are zones of strong light green / blue clay alteration - strong also in these zones we see weak to moderate potassic alteration. In the other aalteration zone we see moderate to strong chlorite alteration as well as potassic with black biotite occurring mostly in this alteration. In this unit we see a much more fluid movement between the different alterations. Usually its more of a sharp contact or a small gradational contact. At 243.94 - 244.21 m we see a possible apalite dyke? Its very fine grained and light green to locally hematite stained. Pyrite occurs as stringers in this dyke as well. The upper and lower contact are sharp. There is a small quartz / sulphide veinlet at 244.54 - 244.56 m. Milky white to grey quartz with galena and sphalerite.							
											Py	0.1
											Sp	0.01
											Gn	0.01
245.93	249.80	3.87	GRD	CG	Zone of dark green moderate to strong chlorite alteration with moderate to strong potassic alteration with black biotite disseminated. Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
249.80	249.99	0.19	VEN	CG	Quartz / sulpide veining. Grey glassy quartz with milky white as well as pyrite. 2 cm gouge zone at the end of the interval. The quartz is vuggy with vugs up to 3 mm up to 1.5 cm wide with quartz re-crystallization.							
											Py	4
249.99	250.30	0.31	GRD	CG	Transition zone of alteration. Strong light green / blue clay alteration that is grading to strong potassic alteration. The lower contact is gradational.							
250.30	252.60	2.30	GRD	CG	Zone of strong potassic alteration with weak chlorite alteration. Black disseminated biotite. Small zones of strong clay alteration that is light green / blue in color - appear to be coming in along fracture zones. Sharp lower contact.							
252.60	255.98	3.38	GRD	CG	Zone of strong clay alteration - predominatly light green/ blue in color but also some white. In these zones all that is left is the clay and quartz. There is a sulpide/ quartz zone at 253.16 to 253.30 m. Light grey to white quartz with pyrite, sphalerite - black jake varity as well as honey brown and trace galena. After 253.55 m we see potassic alteration coming in - moderate to strong as well we see black biotite alteration to 253.74 m where we see strong chloritic alteration coming in to approx. 254 m. After 254 m we see strong light blue / green clay alteration with weak potassic and local hematite staining. Sulphide/ quartz vein occurring at 255.69 to 255.72 m. Milky white to grey quartz with pyrite as well as black jack varity sphalerite.							
											Sp	0.1
											Py	0.1
255.98	257.63	1.65	GRD	CG	Zone of dark green moderate chlorite alteration with moderate potassic alteration with black biotite disseminated. Gradational lower contact. Along fracturing we see white clay alteration. Locally pyrite is occuring as striners.							
											Py	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
257.63	260.39	2.76	GRD	CG	Zone of strong clay alteration - predominatly light green/ blue in color but also some white. In these zones all that is left is the clay and quartz. We also see small 1 - 2 cm wide quartz veinlets in this interval sometimes with mineralization. Local zone of strong white clay alteration with moderate potassic alteration at 258.67 - 258.80 m.							
											Py	0.1
260.39	260.72	0.33	VEN	CG	Zone of quartz and sulphide veining. Milky white quartz veining with pyrite, sphalerite and trace galena.							
						LT	WH				Py	8
											Sp	1
											Gn	0.1
260.72	261.90	1.18	GRD	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. This interval has white quartz veinlets as well as sulphide stringers of pyrite and galena.							
											Py	0.1
											Gn	0.1
261.90	277.02	15.12	GRD	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. There is fracturing throughout this interval that has calcite infilling and a chloritic haloing around the fracturing. Locally we also see dark green fine grained (not chlorite) Xenoliths? At 266.71 - 266.74 m we see quartz/ pyrite veining. 267.65 - 267.81m is a possible apalite dyke? Its fine grained has sharp upper and lower contacts and is light to dark salmon colored. 267.95 - 268.29 m is a small zone of the light green/ blue clay alteration and inside this interval is some minor sulphide veining.							
											Py	0.1
277.02	277.70	0.68	GRD	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. Sulphide veining in this interval - pyrite, sphalerite and galena. Pyrite is also disseminated in this unit.							
											Gn	0.1
											Py	0.3
											Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.70	280.76	3.06	GRD	CG	Zone of weak to moderate potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. We also see strong chlorite alteration locally. In addition there is some local light green/ blue clay alteration.							
280.76	284.30	3.54	GRD	CG	A mixed zone of both types of alteration suites. Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit as well as moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. In the zones of the strong argillic alteration we also see sulphide veining. 281.21 - 281.45 m is a sulphide veining zone. Predominantly pyrite with trace chalcopyrite and galena. At 283.22 - 283.24 m there is a zone of sulphide veining - predominantly black jack spalerite, pyrite, chalcopyrite and galena.							
											Py	1
											Cp	0.1
											Gn	0.1
											Sp	0.1
284.30	290.56	6.26	GRD	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. Local white clay alteration (argillic) haloing around fracture zones. Small fault zone at 287.67 to 289.19 m with rubble and competent core.							
290.56	292.35	1.79	GRD	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. In this interval there is some pyrite stringers.							
											Py	0.1
292.35	293.35	1.00	GRD	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Gradational lower contact.							
293.35	294.09	0.74	GRD	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. This interval has a slip with gouge along it - 1 cm wide with pyrite around it.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.5
294.09	295.00	0.91	GRD	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. Black biotite is disseminated in this interval.							
295.00	295.29	0.29	GRD	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. Shallowly dipping quartz with pyrite veinlet in the middle of this unit.							
											Py	2
295.29	295.94	0.65	GRD	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Pyrite stingers in this interval.							
											Py	0.5
295.94	298.96	3.02	GRD	CG	A mixed zone of both types of alteration suites. Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit as well as moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. We see sulphide veining occurring the the argillic alteration zone. At 297.37 - 297.37 m there is a quartz / sulphide veinlet. Quartz is white and glassy grey as well we have pyrite, sphalerite, galena and chalcopyrite. At 298.05 - 298.07 m we see a small zone of sulphide veining - black jack spahlerite, pyrite and galena. Also at 298.75 m down to 298.87 m is some disseminated sulpides - pyrite, sphalerite and galena.							
											Py	0.5
											Gn	0.1
											Sp	0.1
											Cp	0.1
298.96	302.67	3.71	GRD	CG	A mixed zone of alteration with local zones of white clay alteration to light green/ blue with weak to moderate potassic. In these zones we also see local hematite staining - red to purple. We also have zones of moderate to strong chlorite alteration with black biotite dissemintaed. Between the alteration zones are gradational as well as sharp. At 301.57 to 301.63 we have quartz veining with mineralization of pyrite, galena and spalerite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Sp	0.1
											Py	0.1
											Gn	0.1
302.67	305.90	3.23	GRD	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. In this interval there is some pyrite stringers. There is also black biotite disseminated throughout this interval.							
											Py	0.1
305.90	308.04	2.14	GRD	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. In this we have interval we have sulphide veining - 306.30 - 306.59, 307.10 - 307.14, and 307.60 - 307.79 m. The veining at 306.30 is brecciated and is associated with quartz veining. The veining is predominantly pyrite.							
											Py	0.1
308.04	316.32	8.28	GRD	CG	Variabled altered granodiorite with 3 different zones of alteration. Zones of white clay alteration to light green/ blue with weak to moderate potassic. We also have zones of moderate to strong chlorite alteration with moderate potassic alteration. The final zone has moderate potassic and minor chlorite alteration of biotite giving it a granitic look. Between the alteration zones are gradational as well as sharp.							
316.32	316.69	0.37	GRD	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining in the middle of this unit. Vein is made up of white quartz as well as pyrite.							
											Py	3
316.69	317.52	0.83	GRD	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Black biotite is disseninated in this interval. Sharp lower contact.							
317.52	317.87	0.35	GRD	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining in the middle of the unit. Two separate quartz viens with the first having pyrite and the second is galena with trace chalcopyrite.							
											Py	0.1
											Gn	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Cp	0.1
317.87	319.25	1.38	GRD	CG	Zone of variably altered granodiorite.							
319.25	319.64	0.39	GRD	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining. Before the vein and after the vein we see disseminated pyrite. Veining is made up of white quartz with pyrite in the middle. Vein is 4 cm wide.							
											Py	5
319.64	320.04	0.40	GRD	CG	Zone of dark green chloritic alteration with moderate to weak potassic alteration. There is black biotite disseminated throughout this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
######	######	0.00	GRD	GRDA	CG	-999
0.00	0.92	0.92	CAS	---	--	No core recovered.
0.92	3.05	2.13	OVB	OVB	--	Top of hole - dark black to brown dirt and soil with 2 small pieces of core that are 2 cm wide.
3.05	4.66	1.61	OVB	OVB	--	Granodiorite and ovb - Granodiorite is coarse grained and has trace chloritic alteration. OVB - is sand and residual soil. Granodiorite - 60%, Residual soil - 40%.
4.66	7.00	2.34	OVB	OVB	--	OVB + Granodiorite. This granodiorite is heavily stained with MnOx.
7.00	9.26	2.26	OVB	OVB	--	OVB - with some very minor granodiorite. Predominantly rusty orange.
9.26	10.67	1.41	OVB	OVB	--	OVB + granodiorite. Predominantly ovb that is light to medium brown. The granodiorite is fairly fresh and un-altered besides some trace chloritic alteration.
10.67	12.34	1.67	OVB	OVB	--	OVB + granodiorite - mostly granodiorite. Granodiorite is coarse grained and has strong MnOx alteration. Locally also has patchy strong limonite alteration.
12.34	21.60	9.26	OVB	OVB	--	OVB + granodiorite. Granodiorite is coarse grained and fairly un-altered. Locally there is limonite, potassic as well as clay alteration. All are overall weak.
21.60	33.66	12.06	OVB	OVB	--	OVB + Granodiorite. Predominanlty resiual soil. Granodiorite is coarse grained and fairly altered throughout. Predominanlty we see MnOx coming in along fracture surfaces - strong. Patchy limonite alteration as well.
33.66	60.10	26.44	OVB	OVB	--	OVB + granodiorite. Predominantly ovb with some granodiorite - the granodiorite is coarse grained and is variable altered throughout this interval. Predominatly we see a mix of oxidization - limonite and MnOx. We also see some chloritic alteration as well as some potassic.
60.10	65.35	5.25	FLT	FLTA	CG	Faulted and altered granodiorite. It is pervasively limonite altered throughout this interval except a few small places where it is strongly clay altered (white - cream). It is very sandy and crumbly till 61.60 m. Possible chunk of cave at 65.23 - appears to be the same granodiorite as in the ovb.
65.35	66.08	0.73	FLT	FLTA	FG	Small interval of fine grained granodiorite. Is olive green in color and is very rubbly.
66.08	68.58	2.50	FLT	FLTA	CG	Predominantly limonite altered granodiorite that is decreasing as we go down interval. The granodiorite is coarse grained. In areas of less oxidization we see strong clay alteration. Very rubble and some minor gouge.
68.58	70.95	2.37	FLT	FLTA	CG	Faulted / altered granodiorite that is more competent. We also see less limonite alteration in this zone. There is strong clay alteration giving a yellow/ cream color. Limonite is occurring along fracture surfaces as well as local patches. In this interval we also see MnOx coming in along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
70.95	77.86	6.91	FLT	FLTA	CG	Faulted and altered granodiorite. Strong pervasive limonite alteration occurring at the start of the interval and decreasing as we go down interval. Fracture surfaces have strong limonite alteration as well MnOx. In areas of less oxidization we see strong clay alteration with a yellow/ cream hue. This interval is getting more rubbly as we go interval. The lower contact is sharp with a dyke?
77.86	79.16	1.30	FLT	DYK	FG	Possible dyke? Looks very similar to dyke lower in the hole but hard to tell due to faulting and alteration. This unit is very fine grained and is pervasively limonite altered giving it a dark brown/ orange coloration. We also see MnOx coming in along fracture surfaces, locally dentric in nature (pyrolusite?). The unit is very fractured and rubbly. This unit has phenocrysts that are clay altered and are cream colored in a very fine grained matrix.
79.16	80.91	1.75	GRD	FLTA	CG	Faulted / altered granodiorite. This unit is strongly limonite altered.This is the end of the fault. In less oxidized areas we see strongly clay alteration - giving a white/ cream color.
80.91	85.93	5.02	GRD	GRDA	CG	Pervasively limonite altered granodiorite as well its stronly clay altered that has been limonite stained . At 84.85 to 85.60 there is a small fault zone with rubble at the upper contact and some minor competent core and then rubble at the lower contact.
85.93	87.18	1.25	GRD	GRDA	CG	In this section we see black biotite alteration throughout - 5% in this interval. The lower contact of this unit is sharp and we see the disappearance of the biotite.
87.18	89.03	1.85	GRD	GRDA	CG	In this zone of granodiorite we see strong clay alteration - white to a light green and light yellow coloration. At the top of the interval to 87.37 m we see dark brick red blebs around the clay alteration. After 87.37 we lose that coloration and it becomes light grey to light rusty orange due to limonite alteration. As we go down interval the limonite alteration increases.
89.03	92.12	3.09	FLT	GRD	FG	Faulted section - Gouge - 20%, Rubble - 50%, and competent core - 30%. This zone is pervasively limonite altered.
92.12	95.85	3.73	GRD	GRD	FG	Light to medium to dark grey - faily unaltered zone of granodiorite besides the calcite coming in along fracture surfaces as well as the limonite coming in along the fracture surfaces.
95.85	96.97	1.12	GRD	GRD	FG	Interval of granodiorite where we see a few (~6) pyrite stringers as well as a pyrite veinlet with white calcite associated with the veins. The stringers are 1 mm wide while the veinlet is 7 mm wide. Pyrite/ galena stringer is at 96.93 - 96.96 m. The veinlet has pyrite but also a bit of galena with the pyrite. The stringers have a dark black haloing around them.
96.97	98.84	1.87	GRD	GRD	FG	Same as general lith with local patchy limonite staining.
98.84	99.46	0.62	QFP	DYK	FG	In this zone we see a dyke that is foliated and shows flow texture as the foliation is undulating locally. The coloration is medium green to medium brown. This dyke is porphyritic with large white crystals floating in a fine grained matrix. Phenocrysts are clay altered. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
99.46	101.91	2.45	QFP	DYK	FG	In this zone the dyke is light green to light grey in coloration. It is also porphyritic with light green phenocrysts that have been clay altered. There is also glassy grey quartz phenocrysts. 100.13 to 100.46 m we see fracturing with gouge infilling. Sharp lower contact with the foliated dyke.
101.91	102.24	0.33	QFP	DYK	FG	There is a transition zone from the above non-foliated dyke to the more foliated dyke. In this section we also loss the porphyritic texture (10.92 to 102.11 m). After this point we see the same foliation as above and the brown color. There is also a 4 - 8 cm wide gouge zone at the end of the dyke.
102.24	102.91	0.67	GRD	GRDA	CG	Zone of green / blue strong clay alteration.
102.91	103.27	0.36	GRD	GRDA	CG	Zone of clay alteration that is light brown.
103.27	104.00	0.73	BXA	GRDA	CG	Small breccia zone. Gouge along fracute surfaces - 10%.
104.00	106.10	2.10	GRD	GRDA	CG	Clay alteration is predominantly white but locally light green/ blue. In this zone we also have zones of fine grained ?Apalite dykes? With sharp contacts.
106.10	108.98	2.88	GRD	GRDA	CG	Alternating between light/ green and light blue clay alteration and white.
108.98	110.26	1.28	GRD	GRDA	MG	Zone of moderate chlorite alteration and potassic alteration giving the core a more massive looking texture. There is also some trace hematite in this interval as well.
110.26	110.62	0.36	GRD	GRDA	CG	Zone of white clay and light purple/ red around the white.
110.62	110.92	0.30	GRD	GRDA	MG	Zone of alteration that is washing out original texture. Weak chlorite alteration as well as some patchy hematite staining. That is locally very magnetic.
110.92	112.07	1.15	GRD	GRDA	CG	Mix of white and blue/ green clay alteration.
112.07	114.03	1.96	FLT	GRDA	CG	Zone of faulted granodiorite with gouge coming in along fracture surfaces.
114.03	115.71	1.68	GRD	GRDA	CG	light green/ blue clay alteration.
115.71	115.83	0.12	-?-	GRDA	FG	Possible small dyke? Light grey and fine grained with small dark grey phenocrysts.
115.83	117.11	1.28	GRD	GRDA	CG	Light green / blue clay alteration.
117.11	118.33	1.22	QFP	DYK	FG	Light green with a brown tinge. Local hematite staining as well as white phenocrysts that have been clay altered. Locally appears slightly foliated.
118.33	119.08	0.75	QFP	DYK	FG	Zone of foliated dyke with light green coloration and patchy brown alteration.
119.08	122.65	3.57	QFP	DYK	FG	Light grey dyke with strong porphyritic texture. Phenocrysts are light green/ blue coloration to white (similar to the granodiorite). In addition there are glassy grey quartz phenocrysts. There is also a small zone of brecciation at 119.30 to 119.50 m. Sharp lower contact with foliated dyke.
122.65	123.86	1.21	QFP	DYK	FG	Foliated dyke that is near sub parallel tca forms a banded texture.
123.86	124.97	1.11	FLT	DYK	FG	Fault in the dyke. Gouge - 15%, and Rubble - 85%.
124.97	126.19	1.22	QFP	DYK	FG	Light green / grey with porphyritic texture just less phenocrysts than the interval below. The phenocrysts are light green / blue in color and clay altered.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
126.19	128.37	2.18	QFP	DYK	FG	Zone of stronger porphyritic texture with larger phenocrysts. Phenocrysts are light green/ blue in color and clay altered.
128.37	128.93	0.56	FLT	DYK	FG	Zone of fault - predominantly gouge - lower contact is 40 degrees tca.
128.93	129.03	0.10	QFP	DYK	FG	Light green less porphyritic.
129.03	129.20	0.17	QFP	DYK	FG	Zone of stronger porphyrtic texture with increased number of phenocrysts. Sharp lower contact with foliated dyke.
129.20	129.63	0.43	QFP	DYK	FG	Zone of foliated dyke - 30 degrees tca showing flow texture.
129.63	131.07	1.44	GRD	GRDA	CG	Altered granodiorite. Light grey in color with light green/ light blue clay alteration to phenocrysts. The last half of this interval is rubbled and broken. Local potassic alteratio - occurring in the lower half of the interval. There is also some trace chloritic alteration. Weak limonite alteration along fracture surfaces. Sharp lower contact with dyke.
131.07	131.82	0.75	QFP	DYK	FG	Light grey/ green porphyritic dyke that is weakly foliated showing flow texture. The phenocrysts are white and are clay altered. We also see weak limonite alteration
131.82	132.34	0.52	GRD	GRDA	CG	Zone of strong clay alteration that is light blue / green in color as well as some weak potassic alteration.
132.34	134.24	1.90	GRD	GRDA	CG	Area of moderate chloritic alteration giving core medium green color as well there is moderate light green/ blue clay alteration. As well there is some weak potassic alteration.
134.24	136.18	1.94	GRD	GRDA	CG	Strong white clay alteration with moderate potassic alteration and local biotite after 135.18 m.
136.18	136.59	0.41	GRD	GRDA	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration. In this zone there is also a galena veinlet at 136.26 - 136.27 m.
136.59	138.11	1.52	GRD	GRDA	CG	Zone of strong clay alteration (white) and moderate to strong potassic alteration.
138.11	139.78	1.67	GRD	GRDA	CG	Alternating zones of more chloritic rich with potassic alteration and zones of strong white clay alteration with potassic alteration but predominantly the chloritic alteration. There is also a pyrite sulphide vein at 138.35 - 138.37 m. Local concentations of black biotite - trace.
139.78	141.24	1.46	GRD	GRDA	CG	Strong white clay alteration with moderate potassic alteration. There is also trace black biotite locally in this interval. There is also light grey glassy quartz veinlet in this interval.
141.24	141.83	0.59	GRD	GRDA	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration.
141.83	145.44	3.61	GRD	GRDA	CG	Zone of strong white clay alteration with moderate potassic alteration. Locally the clay is light green blue in color. There is a small fault zone with a sulphide vein at 143.26 - 143.49 m. The vein is 1 cm wide and is just pyrite. There is also some trace blebby hematite in this interval. This interval also has a glassy grey quartz veinlet with pyrite inside.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
145.44	146.43	0.99	GRD	GRDA	CG	Zone of chloritic alteration giving the core a green tinge. There is also light green / blue clay alteration and weak potassic alteration. There is local hematite staining in this interval as well.
146.43	147.38	0.95	FLT	GRDA	CG	Smalll breccia zone with gouge occurring along the fracture surfaces. At the end of the interval see see rubble and broken up core.
147.38	147.81	0.43	GRD	GRDA	CG	Zone of strong white clay alteration with some minor blue/ green clay as well as moderate potassic alteration.
147.81	150.57	2.76	GRD	GRDA	CG	Zone of chloritic alteration giving the core a green tinge. There moderate potassic alteration. There is also some trace black biotite disseminated in this unit. The lower contact is gradational with clay clay alteration and more potassic alteration coming in. At the lower contact we loss some of the potassic alteration and the unit becomes more chloritic altered. This interval also has a few pyrite stringers as well as a sulphide / quartz veinlets with pyrite, spalerite and galena occurring at 150.14 - 150.19 m. Quartz is grey and white.
150.57	151.33	0.76	GRD	GRDA	CG	Zone of strong white clay alteration as well as moderate to strong potassic alteration with some local blue/ green clay alteration. Sharp lower contact. This unit also has trace disseminated black biotite.
151.33	151.77	0.44	GRD	GRDA	CG	Zone of strong chloritic alteration also moderate potassic alteration. There is also trace disseminated black biotite in this interval. Pyrite coming in as stringer along fractures. There is also some hematite coming in along fracture surfaces.
151.77	153.36	1.59	GRD	GRDA	CG	Zone of strong white as well as trace blue/ green clay alteration with strong to moderate potassic alteration. Black biotite is disseminated in this interval. Sharp lower contact. Pyrite and hematite coming in along fracture surfaces forming stringers.
153.36	154.49	1.13	GRD	GRDA	CG	Zone of strong chloritic alteration also moderate potassic alteration. There is also trace disseminated black biotite in this interval. Locally there is less potassic alteration and there is light green / blue clay alteration instead. This interval also has pyrite stringers.
154.49	155.76	1.27	GRD	GRDA	CG	Zone of strong white clay alteration as well as local weak blue / green clay alteration. In this interval we see weak potassic alteration. As well we have trace biotite - black and disseminated.
155.76	156.14	0.38	BXA	GRDA	CG	Small breccia zone with gouge coating fracture surfaces as well as a large gouge zone 7 cm wide - in this gouge zone we see a large bleb of pyrite - 2.5 cm wide. The pyrite forms a oval shape.
156.14	159.52	3.38	GRD	GRDA	CG	Zone of strong white clay alteration as well as some patchy local blue/ green. There is weak to moderate potassic alteration as well as patchy local black biotite occurring disseminated. There is also patchy hematite coming in along fracture surfaces as well as local blebs. At the lower contact we see gouge coming in along fracture surfaces.
159.52	162.55	3.03	BXA	GRDA	CG	Brecciated granodiorite. Strong blue / green clay alteration. Pyrite in local clustering.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
162.55	165.34	2.79	GRD	GRDA	CG	At near the start of this interval after the brecciation we see dark grey (almost cherty to glassy) quartz veining. Pyrite is associated with with veining as well as some blebby sphalerite and trace galena.
165.34	165.38	0.04	VEN	GRDA	CG	Sphalerite vein with some minor pyrite associated with it as well as galena. There is some minor calcite associated with the sulphide vein as well. At the end of the sulpide vein there is a small 0.5 cm wide glassy grey quartz vein.
165.38	165.89	0.51	GRD	GRDA	CG	Same as 162.55 - 165.34 m. Potassic alteration coming in along the lower contact.
165.89	167.29	1.40	GRD	GRDA	CG	Strong clay alteration - white as well as local patches of blue/ green clay. This interval has moderate to strong patchy potassic alteration. Sharp lower contact.
167.29	167.64	0.35	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.
167.64	168.51	0.87	GRD	GRDA	CG	Strong clay alteration that is patchy white as well as light blue / green with moderate to strong potassic alteration.
168.51	168.85	0.34	GRD	GRDA	CG	Moderate chlorite alteration giving core a medium green color. Moderate potassic alteration. The top and bottom contacts are gradational. Small 0.5 mm wide pyrite stringer in the middle of this interval.
168.85	169.86	1.01	GRD	GRDA	CG	Strong clay alteration - occurring as white as well as patchy light blue / green. There is strong to moderate potassic alteration. 2 small sulphide veins at 169.23 - 169.25 m and 169.54 - 169.55 m. The first vein is made up of pyrite and a bit of galena. The second vein is predominantly galena with a very minor bit of pyrite.
169.86	170.77	0.91	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. This interval is a bit broken up at the end of the interval. Sharp lower contact.
170.77	171.48	0.71	GRD	GRDA	CG	Strong white clay alteration with local weak light blue/ green clay alteration as well as moderate to strong potassic alteration. Sharp lower contact.
171.48	173.67	2.19	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. Stringer of pyrite and black jack sphalerite at 173.16 - 173.19 m. Sharp lower contact.
173.67	176.72	3.05	GRD	GRDA	CG	Strong clay alteration - light green / blue in color. More massive in nature. This interval has several sulphide veins. At 174.49 to 174.55 m small breccia zone. Sulphide veins are 3 mm to 1.3 cm wide. Veins are made up of pyrite, black jack sphalerite, and some minor galena.
176.72	177.92	1.20	GRD	GRDA	CG	Strong white clay alteration with some patchy weak blue / green as well. Strong to moderate potassic alteration. Gradational lower contact.
177.92	178.77	0.85	GRD	GRDA	CG	Strong blue/ green clay alteration at the start and end of the inerval and then strong chlorite alteration giving core a medium green color. Moderate potassic alteration.
178.77	179.80	1.03	GRD	GRDA	CG	Moderate to strong potassic alteration. Strong in sections where we see more pink coloration and more moderate to light purple in coloration. Strong clay alteration - predominantly light blue/ green but also white in color. Trace chloritic alteration. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
179.80	184.20	4.40	GRD	GRDA	CG	Strong light blue / green clay alteration. Patchy trace chloritic alteration. Weak potassic alteration is coming in near the lower contact.
184.20	185.93	1.73	GRD	GRDA	CG	*Note the sulphide veins are predominantly occurring in these zones of strong chlorite alteration. Strong chlorite alteration giving core a medium green color as well as strong light blue / green clay alteration. In this zone we see sulphide veining of pyrite, sphalerite and galena.
185.93	186.35	0.42	GRD	GRDA	CG	Strong clay alteration - white and some light blue / green. Moderate potassic and some patchy chlorite alteration .
186.35	186.97	0.62	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.
186.97	187.64	0.67	GRD	GRDA	CG	Strong clay alteration - white and some light blue / green. Moderate potassic and some patchy chlorite alteration .
187.64	191.04	3.40	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration. Local strong white clay alteration. 2 broken sulphide veins occurring near the end of the interval - 7 mm to 1 cm wide. The first vein is made up of quartz - cherty grey and galena. The second veins is made up of grey cherty quartz, black jack sphalerite and pyrite.
191.04	191.53	0.49	GRD	GRDA	CG	Strong potassic and white clay alteration with local blue/ green clay alteration.
191.53	191.89	0.36	GRD	GRDA	CG	Strong chlorite alteration giving core a medium green color. Moderate potassic alteration.
191.89	193.48	1.59	FLT	FLTA	CG	Strong clay alteration - light green/ blue. Broken up sulphide vein in this interval - pyrite.
193.48	193.61	0.13	BXA	FLTA	CG	Breccia zone with disseminated pyrite.
193.61	194.12	0.51	FLT	FLTA	CG	Strong clay alteration - light green/ blue. Sharp lower contact.
194.12	197.56	3.44	FLT	FLTA	CG	Strong white clay alteration as well as potassic alteration with black biotite disseminated. Small breccia zone at 197.08 to 197.27 m.
197.56	201.58	4.02	GRD	GRDA	CG	Strong chloritic alteration giving the core a medium green color. Moderate potassic alteration as well as local patchy white clay alteration. Black biotite occurring disseminated in this unit. Pyrite coming in along fracture surfaces. Gradational lower contact.
201.58	204.49	2.91	GRD	GRDA	CG	Patchy chlorite alteration with strong light blue/ green clay alteration. Sulphides are occurring with quartz veining in this interval. Local trace patchy hematite. Gradational lower contact.
204.49	207.28	2.79	GRD	GRDA	CG	Strong white clay alteration as well as patchy light blue/ green. Weak to moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact. Pyrite stringers are occurring in this interval.
207.28	207.87	0.59	GRD	GRDA	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay alteration. 7 mm wide pyrite and sphalerite veinlet in the middle of the interval.
207.87	211.01	3.14	GRD	GRDA	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact. Pyrite stringers are occurring in this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
211.01	211.30	0.29	GRD	GRDA	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay alteration. Disseminated black biotite in this interval as well.
211.30	213.98	2.68	GRD	GRDA	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact.
213.98	214.78	0.80	BXA	GRDA	CG	Breccia zone inside another altered zone of moderate chlorite with strong clay alteration of light blue / green. 214.27 - 214.39 is a strong breccia zone with clay gouge and clast floating in the gouge.
214.78	216.50	1.72	GRD	GRDA	CG	Zone of light blue / green strong clay alteration. We also see weak potassic alteration. Sharp lower contact.
216.50	218.36	1.86	GRD	GRDA	CG	Zone of moderate chlorite alteration with local moderate light green / blue clay aleration. This interval has a few sulphide veins - pyrite, sphalerite and galena.
218.36	220.54	2.18	GRD	GRDA	CG	Strong white clay alteration as well as patchy light blue/ green. Moderate potassic alteration. Black biotite is locally disseminated in this interval. Sharp lower contact.
220.54	221.32	0.78	GRD	GRDA	CG	Zone of weak chlorite alteration with local moderate to strong light green / blue clay aleration. At 221.00 - 221.06 m is a quartz vein - milky white to grey with pyrite, sphalerite and galena.
221.32	223.08	1.76	GRD	GRDA	CG	Strong light blue/ green clay alteration. Moderate to locally strong potassic alteration. Black biotite is locally disseminated in this interval. Gradational lower contact.
223.08	223.74	0.66	GRD	GRDA	CG	Zone of weak chlorite alteration with local moderate to strong light green / blue clay aleration. Sharp lower contact with sulphide vein.
223.74	223.84	0.10	VEN	VEIN	CG	Sulphide and quartz vein. Quartz is milky white to light grey in color. Sulphides are chalcopyrite and pyrite. There are occurring in bands that are beside on another but are separate from one another.
223.84	224.30	0.46	GRD	GRDA	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration.
224.30	228.16	3.86	GRD	GRDA	CG	Zone of strong light blue/ green clay alteration with moderate to strong potassic alteration. There are local patches of chlorite coming in along fracture surfaces. Local disseminated black chlorite in this interval as well. Grey cherty quartz veins are found throughout this interval.
228.16	231.87	3.71	GRD	GRDA	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. This interval has fracturing with calcite infilling. As well we see fracturing with a small amount of gouge coming along the surfaces. There is a milky white and glassy grey quartz veining with mineralization - pyrite, galena and sphalerite. The vein is also offset by 5 cm. Before the vein there is sheeted grey quartz veinlets. Pyrite veinlet at 230.45 - 230.47 m with galena.
231.87	233.16	1.29	GRD	GRDA	CG	Zone of light blue / green strong clay alteration with moderate potassic alteration. Gradational lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
233.16	237.44	4.28	GRD	GRDA	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. Sulphide veining occurring in this interval. 233.82 - 233.92 m - pyrite stringer and some trace black jake sphalerite. 234.42 - 234.44 m - bleb of chalcopyrite inside a grey cherty quartz vein. Minor rubble and gouge at 235.82 - 236.20 m.
237.44	237.88	0.44	VEN	GRDA	CG	Sulphide vein zone hosted in granodiorite. 75% sulphides. Pyrite, sphalerite, galena and chalcopytie. Sphalerite is of the black jack varity.
237.88	238.57	0.69	GRD	GRDA	CG	Strong white and then at 238.38 m we transition to light green / blue clay alteration with patchy weak chlorite alteration.
238.57	238.86	0.29	VEN	GRDA	CG	Quartz and sulphide veining. Grey glassy and white quartz. Sulphides are pyrite and sphalerite.
238.86	240.70	1.84	GRD	GRDA	CG	Strong light green / blue clay alteration with patchy weak chlorite alteration. This unit is weakly brecciated with clay infilling along fractures. This interval has dark grey glassy quartz veining.
240.70	242.08	1.38	QFP	DYK	CG	Green/ grey QFP dyke with argillic alteration that is light green/ blue in color. Quartz phenocrysts are glassy grey in color. Unit is brecciated.
242.08	242.28	0.20	GRD	VEIN	CG	Quartz and sulphide veining. Light grey and white quartz with pyrite. Gouge is occurring at the upper and lower contact of this vein.
242.28	245.93	3.65	GRD	GRDA	CG	Zone of alternating alteration - there are zones of strong light green / blue clay alteration - strong also in these zones we see weak to moderate potassic alteration. In the other aalteration zone we see moderate to strong chlorite alteration as well as potassic with black biotite occurring mostly in this alteration. In this unit we see a much more fluid movement between the different alterations. Usually its more of a sharp contact or a small gradational contact. At 243.94 - 244.21 m we see a possible apalite dyke? Its very fine grained and light green to locally hematite stained. Pyrite occurs as stringers in this dyke as well. The upper and lower contact are sharp. There is a small quartz / sulphide veinlet at 244.54 - 244.56 m. Milky white to grey quartz with galena and sphalerite.
245.93	249.80	3.87	GRD	GRDA	CG	Zone of dark green moderate to strong chlorite alteration with moderate to strong potassic alteration with black biotite disseminated. Sharp lower contact.
249.80	249.99	0.19	VEN	GRDA	CG	Quartz / sulpide veining. Grey glassy quartz with milky white as well as pyrite. 2 cm gouge zone at the end of the interval. The quartz is vuggy with vugs up to 3 mm up to 1.5 cm wide with quartz re-crystallization.
249.99	250.30	0.31	GRD	GRDA	CG	Transition zone of alteration. Strong light green / blue clay alteration that is grading to strong potassic alteration. The lower contact is gradational.
250.30	252.60	2.30	GRD	GRDA	CG	Zone of strong potassic alteration with weak chlorite alteration. Black disseminated biotite. Small zones of strong clay alteration that is light green / blue in color - appear to be coming in along fracture zones. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
252.60	255.98	3.38	GRD	GRDA	CG	Zone of strong clay alteration - predominatly light green/ blue in color but also some white. In these zones all that is left is the clay and quartz. There is a sulpide/ quartz zone at 253.16 to 253.30 m. Light grey to white quartz with pyrite, sphalerite - black jake varity as well as honey brown and trace galena. After 253.55 m we see potassic alteration coming in - moderate to strong as well we see black biotite alteration to 253.74 m where we see strong chloritic alteration coming in to approx. 254 m. After 254 m we see strong light blue / green clay alteration with weak potassic and local hematite staining. Sulphide/ quartz vein occurring at 255.69 to 255.72 m. Milky white to grey quartz with pyrite as well as black jack varity sphalerite.
255.98	257.63	1.65	GRD	GRDA	CG	Zone of dark green moderate chlorite alteration with moderate potassic alteration with black biotite disseminated. Gradational lower contact. Along fracturing we see white clay alteration. Locally pyrite is occuring as striners.
257.63	260.39	2.76	GRD	GRDA	CG	Zone of strong clay alteration - predominatly light green/ blue in color but also some white. In these zones all that is left is the clay and quartz. We also see small 1 - 2 cm wide quartz veinlets in this interval sometimes with mineralization. Local zone of strong white clay alteration with moderate potassic alteration at 258.67 - 258.80 m.
260.39	260.72	0.33	VEN	VEIN	CG	Zone of quartz and sulphide veining. Milky white quartz veining with pyrite, sphalerite and trace galena.
260.72	261.90	1.18	GRD	GRDA	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. This interval has white quartz veinlets as well as sulphide stringers of pyrite and galena.
261.90	277.02	15.12	GRD	GRDA	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. There is fracturing throughout this interval that has calcite infilling and a chloritic haloing around the fracturing. Locally we also see dark green fine grained (not chlorite) Xenoliths? At 266.71 - 266.74 m we see quartz/ pyrite veining. 267.65 - 267.81m is a possible apalite dyke? Its fine grained has sharp upper and lower contacts and is light to dark salmon colored. 267.95 - 268.29 m is a small zone of the light green/ blue clay alteration and inside this interval is some minor sulphide veining.
277.02	277.70	0.68	GRD	GRDA	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. Sulphide veining in this interval - pyrite, sphalerite and galena. Pyrite is also disseminated in this unit.
277.70	280.76	3.06	GRD	GRDA	CG	Zone of weak to moderate potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. We also see strong chlorite alteration locally. In addition there is some local light green/ blue clay alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
280.76	284.30	3.54	GRD	GRDA	CG	A mixed zone of both types of alteration suites. Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit as well as moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. In the zones of the strong argillic alteration we also see sulphide veining. 281.21 - 281.45 m is a sulphide veining zone. Predominantly pyrite with trace chalcopyrite and galena. At 283.22 - 283.24 m there is a zone of sulphide veining - predominantly black jack spalerite, pyrite, chalcopyrite and galena.
284.30	290.56	6.26	GRD	GRDA	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. Local white clay alteration (argillic) haloing around fracture zones. Small fault zone at 287.67 to 289.19 m with rubble and competent core.
290.56	292.35	1.79	GRD	GRDA	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. In this interval there is some pyrite stringers.
292.35	293.35	1.00	GRD	GRDA	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Gradational lower contact.
293.35	294.09	0.74	GRD	GRDA	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. This interval has a slip with gouge along it - 1 cm wide with pyrite around it.
294.09	295.00	0.91	GRD	GRDA	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. Black biotite is disseminated in this interval.
295.00	295.29	0.29	GRD	GRDA	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. Shallowly dipping quartz with pyrite veinlet in the middle of this unit.
295.29	295.94	0.65	GRD	GRDA	CG	Zone of moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Pyrite stingers in this interval.
295.94	298.96	3.02	GRD	GRDA	CG	A mixed zone of both types of alteration suites. Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit as well as moderate to strong potassic alteration with weak chloritic alteration as well as disseminated black biotite. Appears granitic in nature. We see sulphide veining occurring the the argillic alteration zone. At 297.37 - 297.37 m there is a quartz / sulphide veinlet. Quartz is white and glassy grey as well we have pyrite, sphalerite, galena and chalcopyrite. At 298.05 - 298.07 m we see a small zone of sulphide veining - black jack spahlerite, pyrite and galena. Also at 298.75 m down to 298.87 m is some disseminated sulpides - pyrite, sphalerite and galena.
298.96	302.67	3.71	GRD	GRDA	CG	A mixed zone of alteration with local zones of white clay alteration to light green/ blue with weak to moderate potassic. In these zones we also see local hematite staining - red to purple. We also have zones of moderate to strong chlorite alteration with black biotite dissemintaed. Between the alteration zones are gradational as well as sharp. At 301.57 to 301.63 we have quartz veining with mineralization of pyrite, galena and spalerite.
302.67	305.90	3.23	GRD	GRDA	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Sharp lower contact. In this interval there is some pyrite stringers. There is also black biotite disseminated throughout this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
305.90	308.04	2.14	GRD	GRDA	CG	Strong light green / blue clay alteration in this zone. There is only clay (argillic) and quartz left in this unit. In this we have interval we have sulphide veining - 306.30 - 306.59, 307.10 - 307.14, and 307.60 - 307.79 m. The veining at 306.30 is brecciated and is associated with quartz veining. The veining is predominantly pyrite.
308.04	316.32	8.28	GRD	GRDA	CG	Variabled altered granodiorite with 3 different zones of alteration. Zones of white clay alteration to light green/ blue with weak to moderate potassic. We also have zones of moderate to strong chlorite alteration with moderate potassic alteration. The final zone has moderate potassic and minor chlorite alteration of biotite giving it a granitic look. Between the alteration zones are gradational as well as sharp.
316.32	316.69	0.37	GRD	GRDA	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining in the middle of this unit. Vein is made up of white quartz as well as pyrite.
316.69	317.52	0.83	GRD	GRDA	CG	Zone of strong chlorite alteration with weak to moderate potassic alteration. Black biotite is disseninated in this interval. Sharp lower contact.
317.52	317.87	0.35	GRD	GRDA	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining in the middle of the unit. Two separate quartz viens with the first having pyrite and the second is galena with trace chalcopyrite.
317.87	319.25	1.38	GRD	GRDA	CG	Zone of variably altered granodiorite.
319.25	319.64	0.39	GRD	GRDA	CG	Zone of light green/ blue clay alteration (argillic) with sulphide / quartz veining. Before the vein and after the vein we see disseminated pyrite. Veining is made up of white quartz with pyrite in the middle. Vein is 4 cm wide.
319.64	320.04	0.40	GRD	GRDA	CG	Zone of dark green chloritic alteration with moderate to weak potassic alteration. There is black biotite disseminated throughout this interval.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.92	0.92	CAS	--	No core recovered.							
0.92	60.10	59.18	OVB	CG	Extensive zone of overburden with residual soil as well as some comppetent core in between. At the end of this interval we still see broken up core/ sand and soil but starting to get into bedrock. The overburden is rusty orange to brown in color. The pieces of competent core are made up of coarse grained granodiorite. The granodiorite is variable altered with clay alteration, MnOx coming in along fracture surfaces, patchy limonite as well some minor chloritic alteration and potassic.							
						DK	OR		CHL	1I		
						MD	BR		POT	1I		
						DK	BR		LIM	3I		
						MD	OR	PH	CLY	3I		
60.10	77.86	17.76	GRD	CG	OVB is possibly farther down than listed in this log but is hard to tell due to the core being very crumbly and faulted. This unit is faulted and very altered granodiorite. This unit is predominantly pervasively limonite stained but locally it is bleached a cream to light yellow in color and the limonite is restricted to along fracture surfaces. In zones of less limonite we see pervasive clay alteration of a light yellow/ cream coloration. Locally we see pitting infilled with limonite (after ~ 70 m). Competent core - 50%, Rubble - 48%, and Gouge - 2%.							
						DK	OR	PH	LIM	4I		
						MD	OR	FR	CLY	3I		
						LT	CR	RB				
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.86	79.16	1.30	FLT	FG	Possible dyke? Looks very similar to dyke lower in the hole but hard to tell due to faulting and alteration. This unit is very fine grained and is pervasively limonite altered giving it a dark brown/ orange coloration. We also see MnOx coming in along fracture surfaces, locally dentric in nature (pyrolusite?). The unit is very fractured and rubbly. This unit has phenocrysts that are clay altered and are cream colored in a very fine grained matrix.							
						DK	BR	PO	LIM	5I		
						DK	OR					
79.16	80.91	1.75	GRD	CG	Faulted / altered granodiorite. This unit is strongly limonite altered.This is the end of the fault. In less oxidized areas we see strongly clay alteration - giving a white/ cream color.							
						MD	OR		LIM	4I		
						LT	YW					
						DK	OR	PH	CLY	3I		
						LT	CR					
80.91	89.03	8.12	GRD	CG	Altered granodiorite. Most of this unit is pervasively limonite altered. There are some minor rubble zones. There is a zone of black biotite alteration as well in a zone of less limonite alteration we see strong clay alteration that is white to light yellow/ cream. After the biotite alteration we see dark brown / rusty orangle blebs in filling around the white clay alteration. The lower contact is sharp with a very fine grained granodiorite.							
						MD	OR	PH	LIM	4I	Bi	1
						DK	OR		CLY	2I		
						LT	GY					
						LT	YW					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
89.03	98.84	9.81	GRD	FG	A very fine grained granodiorite. It is very different than the previous granodiorite in this hole .Granodiorite is light to meium grey in coloration. At the top of the interval we see pervasive strong limonite alteration. There is a pyrite veinlet occurring in this interval. Throughout this interval we see calcite alteration coming in along fracture surfaces. There is disseminated pyrite as well as local clustering of pyrite in this iterval. There is a small fault zone with gouge occurring near the start of the interval.							
						LT	GY	AN	LIM	3I	Py	0.1
						MD	GY	RB				
						DK	GY					
						DK	OR					
						MD	OR					
98.84	102.24	3.40	QFP	FG	This dyke has two different textures. The upper portion and the lower portion of the dyke are folliated and have a brown tinge to them while the dyke in the center is porphyritic and has a light green hue to it. There is a small fault in the middle of this intveral as well as the lower contact is fauted with gouge.							
						LT	GN	PO	CLY	3I		
						LT	YW					
						LT	BR		LIM	2I		
102.24	117.11	14.87	GRD	CG	This granodiorite is variably altered with clay alteration ranging from white to light green/ blue. As well we see potassic alteration locally generally with some chlorite alteration as well. There is also areas of alteration that have become more fine grained in nature. There are two zones of faulting in this interval. This unit has disseminated pyrite as well as local clusters of pyrite.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL	RB	CHL	1I		
						LT	GY		LIM	1I		
						LT	WH					
						LT	PU					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
117.11	129.63	12.52	QFP	FG	Large zone of dyke that has varying textures. Dyke is generally light green/ grey in color and is porphyritic. Also it is locally foliated showing flow texture. There is also local faulting in this interval. In the more porphyritic zones the phenocrysts have been altered to clay and makes it look more similar to the granodiorite.							
						LT	GN	PO	CLY	4I		
						LT	BR		HEM	1I		
						LT	WH		LIM	1I		
129.63	131.07	1.44	GRD	CG	Altered granodiorite. Light grey in color with light green/ light blue clay alteration to phenocrysts. The last half of this interval is rubbled and broken. Local potassic alteration - occurring in the lower half of the interval. There is also some trace chloritic alteration. Weak limonite alteration along fracture surfaces. Sharp lower contact with dyke.							
						LT	GN		LIM	1I		
						LT	BL		CHL	1I		
						LT	GY	PH	CLY	4I	Py	0.1
						LT	PU		POT	2I		
131.07	131.82	0.75	QFP	FG	Light grey/ green porphyritic dyke that is weakly foliated showing flow texture. The phenocrysts are white and are clay altered. We also see weak limonite alteration							
						LT	GY	PO	CLY	2I		
						LT	GN					
131.82	159.52	27.70	GRD	CG	Variably altered granodiorite - with clay alteration (white and light green/ blue), chloritic alteration turning the core light green, potassic alteration and some local biotite alteration. The upper contact is rubbled and broken. Pyrite is locally clustered as well as disseminated. Limonite alteration is coming in along fracture surfaces.							
						LT	GY	PH	CLY	4I	Py	0.01
						LT	WH		CHL	1I		
						LT	BL		POT	2I		
						LT	GN		LIM	1I		
						LT	PU					
159.52	162.55	3.03	BXA	CG	Brecciated granodiorite. Strong blue / green clay alteration. Pyrite in local clustering.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	BX	CLY	3I	Py	0.1
						LT	GY	PH				
						LT	BL					
162.55	191.89	29.34	GRD	CG	Variable altered granodiorite with strong clay alteration - white as well as light blue / green. Moderate to strong potassic alteration as well as weak to moderate local chloritic alteration . Black biotite is also locally disseminated throughout most of this unit. This unit also has sulphide stringers as well as veinlets - pyrite, galena, and sphalerite. *Note the sulphide veins are predominantly occurring in these zones of strong chlorite alteration.							
						LT	GN		POT	3I	Gn	0.01
						LT	BL		CHL	3I	Sp	0.01
						MD	GN				Bi	0.5
						LT	PK					
						LT	PU					
						LT	WH	PH	CLY	4I	Py	0.01
191.89	197.56	5.67	GRD	CG	Faulted altered granodiorite. Competent core - 30%, Rubble - 60%, and Gouge - 10%. There are small breccia zones in this fault system at: 193.48 - 193.63 m and 197.09 - 197.28 m. Most of the fault is strong light blue / green clay alteration while the other half is strong white clay and potassic alteration. Local broken up sulphide veins occurring in this interval. Black biotite in the white clay / potassic altered zones.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	BL		POT	3I	Bi	0.1
						LT	GY					
						LT	WH					
						LT	PK					
						LT	PU					
197.56	223.74	26.18	GRD	CG	Variably altered granodiorite with strong clay occurring as white and light blue/ green, moderate to strong potassic and strong local chlorite alteration. There is local black biotite generally occurring in zones of strong white clay and potassic alteration. Local sulphide veining in this interval.							
						LT	BL		CHL	3I	Py	0.01
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PU					
						LT	GN		POT	3I		
						LT	WH	PH	CLY	4I	Bi	0.1
						LT	PK					
223.74	223.84	0.10	VEN	CG	Sulphide and quartz vein. Quartz is milky white to light grey in color. Sulphides are chalcopyrite and pyrite. There are occurring in bands that are beside on another but are separate from one another.							
											Py	10
											Cp	9
223.84	240.70	16.86	GRD	CG	Variably altered granodiorite with strong clay occurring as white and light blue/ green, moderate to strong potassic and patchy weak chlorite alteration. There is local black biotite generally occurring in zones of strong white clay and potassic alteration. Local sulphide veining in this interval.							
						LT	WH	PH	CLY	4I	Py	0.1
						LT	BL		POT	3I	Sp	0.01
						LT	GN		CHL	1I	Gn	0.01
						LT	PK				Cp	0.01
						LT	PU					
240.70	242.08	1.38	QFP	CG	Green/ grey QFP dyke with argillic alteration that is light green/ blue in color. Quartz phenocrysts are glassy grey in color. Unit is brecciated.							
						LT	GN	PO				
						MD	BF					
						MD	GY					
						LT	GY					
242.08	242.28	0.20	GRD	CG	Quartz and sulphide veining. Light grey and white quartz with pyrite. Gouge is occurring at the upper and lower contact of this vein.							
						LT	GY				Py	3
						LT	WH					
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
242.28	245.93	3.65	GRD	CG	Zone of alternating alteration - there are zones of strong light green / blue clay alteration - strong also in these zones we see weak to moderate potassic alteration. In the other aalteration zone we see moderate to strong chlorite alteration as well as potassic with black biotite occurring mostly in this alteration. In this unit we see a much more fluid movement between the different alterations. Usually its more of a sharp contact or a small gradational contact. At 243.94 - 244.21 m we see a possible apalite dyke? Its very fine grained and light green to locally hematite stained. Pyrite occurs as stringers in this dyke as well. The upper and lower contact are sharp. There is a small quartz / sulphide veinlet at 244.54 - 244.56 m. Milky white to grey quartz with galena and sphalerite.							
											Py	0.1
											Sp	0.01
											Gn	0.01
245.93	260.39	14.46	GRD	CG	Altered granodiorite that is ranging in alteration styles from zones with strong clay alteration (argillic) that is white to light green/ blue with none to moderate potassic alteration to zones with moderate to strong chlorite alteration with moderate to strong potassic alteration as well as black biotite that is occurring disseminated in either alteration.							
						MD	PK				Sp	0.01
						MD	PU				Gn	0.01
						MD	GN		POT	3I	Py	0.1
						LT	BL		CHL	4I	He	0.01
						LT	GN	PH	CLY	4I	Bi	0.1
						LT	WH					
260.39	260.72	0.33	VEN	CG	Zone of quartz and sulphide veining. Milky white quartz veining with pyrite, sphalerite and trace galena.							
						LT	WH				Py	8
											Sp	1
											Gn	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
260.72	320.04	59.32	GRD	CG	Altered granodiorite that is ranging in alteration styles from zones with strong clay alteration (argillic) that is white to light green/ blue (predominatly the light green / blue) with none to moderate potassic alteration to zones with moderate to strong chlorite alteration with moderate to strong potassic alteration as well as black biotite that is occurring disseminated in either alteration. In this zone we also see a new zone of alteration that is much more coarse grained and appears very granitic in nature. In this zone we see weak to moderate potassic alteration and weak chloritic alteration (biotite to chlorite?). This alteration is the most dominant in this unit. Locally we see dark green, fine grained blebs (xenoliths?) not chlorite too strong.							
						DK	GN					
						LT	WH	PH	POT	3I	Py	0.01
						LT	GY		CLY	2I	Sp	0.01
						LT	GN		CHL	3I	Gn	0.01
						LT	BL					
						LT	PK					
						LT	PU					
						MD	GN					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.32	21	0.00	0	--	1H	6W	Overburden
1.52	3.05	1.53	0.63	41	0.00	0	--	1H	6W	Overburden
3.05	4.57	1.52	0.95	63	0.00	0	--	1H	6W	Overburden
4.57	6.10	1.53	1.07	70	0.00	0	--	1H	6W	Overburden
6.10	7.62	1.52	1.33	88	0.00	0	--	1H	6W	Overburden
7.62	9.14	1.52	1.05	69	0.00	0	--	1H	6W	Overburden
9.14	10.67	1.53	1.28	84	0.00	0	--	1H	6W	Overburden
10.67	12.19	1.52	1.35	89	0.00	0	--	1H	6W	Overburden
12.19	13.71	1.52	1.44	95	0.00	0	--	1H	6W	Overburden
13.71	15.24	1.53	1.31	86	0.00	0	--	1H	6W	Overburden
15.24	16.76	1.52	1.37	90	0.00	0	--	1H	6W	Overburden
16.76	18.29	1.53	0.9	59	0.00	0	--	1H	6W	Overburden
18.29	19.81	1.52	1.16	76	0.00	0	--	1H	6W	Overburden
19.81	21.34	1.53	0.68	44	0.00	0	--	1H	6W	Overburden
21.34	22.86	1.52	1.41	93	0.00	0	--	1H	6W	Overburden
22.86	24.38	1.52	1.18	78	0.00	0	--	1H	6W	Overburden
24.38	25.91	1.53	1.33	87	0.00	0	--	1H	6W	Overburden
25.91	27.43	1.52	1.31	86	0.00	0	--	1H	6W	Overburden
27.43	28.96	1.53	1.34	88	0.00	0	--	1H	6W	Overburden
28.96	30.48	1.52	1.32	87	0.00	0	--	1H	6W	Overburden
30.48	32.00	1.52	1.27	84	0.00	0	--	1H	6W	Overburden
32.00	33.53	1.53	1.24	81	0.00	0	--	1H	6W	Overburden
33.53	36.58	3.05	2.69	88	0.00	0	--	1H	6W	Overburden
36.58	38.10	1.52	1.47	97	0.00	0	--	1H	6W	Overburden
38.10	39.62	1.52	0.97	64	0.00	0	--	1H	6W	Overburden
39.62	41.15	1.53	1.08	71	0.00	0	--	1H	6W	Overburden
41.15	42.60	1.45	1.13	78	0.00	0	--	1H	6W	Overburden
42.60	44.20	1.60	1.08	68	0.00	0	--	1H	6W	Overburden
44.20	45.72	1.52	1.17	77	0.00	0	--	1H	6W	Overburden

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
45.72	47.24	1.52	1.04	68	0.00	0	--	1H	6W	Overburden
47.24	48.77	1.53	1.19	78	0.00	0	--	1H	6W	Overburden
48.77	50.29	1.52	1.14	75	0.00	0	--	1H	6W	Overburden
50.29	51.82	1.53	1.4	92	0.00	0	--	1H	6W	Overburden
51.82	54.86	3.04	2.59	85	0.00	0	--	1H	6W	Overburden
54.86	56.39	1.53	1.26	82	0.00	0	--	1H	6W	Overburden
56.39	57.91	1.52	0.87	57	0.00	0	--	1H	6W	Overburden
57.91	59.44	1.53	1.05	69	0.00	0	--	1H	6W	Overburden
59.44	62.48	3.04	2.55	84	0.00	0	--	1H	5W	Mostly soil, with some hardrock
62.48	64.01	1.53	1.29	84	0.00	0	--	2H	5W	Large amounts of clay rock
64.01	65.23	1.22	1.1	90	0.00	0	--	3H	5W	Large amounts of clay rocxk
65.23	67.06	1.83	1.09	60	0.00	0	--	1H	5W	
67.06	68.58	1.52	1.36	89	0.00	0	--	2H	5W	Large amounts of clay rock
68.58	71.63	3.05	2.78	91	0.58	19	--	4H	3W	
71.63	73.15	1.52	1.45	95	0.00	0	--	3H	4W	
73.15	74.68	1.53	1	65	0.00	0	--	2H	4W	
74.68	76.20	1.52	1.29	85	0.00	0	--	2H	4W	
76.20	77.72	1.52	1.43	94	0.00	0	--	1H	3W	
77.72	80.77	3.05	2.36	77	0.14	5	--	1H	3W	
80.77	83.82	3.05	2.72	89	0.87	29	--	4H	3W	
83.82	86.87	3.05	2.97	97	0.34	11	--	3H	3W	
86.87	89.92	3.05	2.68	88	1.11	36	--	4H	3W	
89.92	92.96	3.04	2.59	85	0.81	27	--	3H	3W	
92.96	96.01	3.05	2.96	97	1.55	51	--	3H	1W	Some oxidized material on joint and fracture surfaces. Host rock is fine grained granodiorite with coarse grained grano on either side
96.01	99.06	3.05	2.87	94	0.94	31	--	4H	2W	Oxidized
99.06	102.11	3.05	2.98	98	1.79	59	--	4H	2W	oxidized
102.11	105.16	3.05	2.79	91	1.53	50	--	4H	2W	Some oxidized material
105.16	108.20	3.04	2.86	94	1.85	61	--	3H	1W	
108.20	111.25	3.05	3	98	1.88	62	--	3H	2W	Some oxidized material

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
111.25	114.30	3.05	2.62	86	0.48	16	--	2H	2W	
114.30	117.35	3.05	2.73	90	0.93	30	--	3H	1W	
117.35	118.87	1.52	1.38	91	0.14	9	--	4H	1W	
118.87	121.92	3.05	2.84	93	0.76	25	--	3H	1W	
121.92	124.97	3.05	2.47	81	0.47	15	--	3H	2W	Dike; some with foliation
124.97	128.02	3.05	2.88	94	0.30	10	--	2H	2W	
128.02	131.06	3.04	2.86	94	0.76	25	--	2H	1W	Fault zone with multiple phases of grey green QFP dykes coming through. Heavily fractured and clay alteration on edges of late stage dyke.
131.06	134.11	3.05	2.92	96	0.99	32	--	3H	1W	Rubble zone, very fractured rock
134.11	137.16	3.05	2.97	97	1.66	54	--	4H	1W	
137.16	140.21	3.05	2.94	96	0.76	25	--	4H	1W	Some orange brown oxide alteration on joint and fracture surfaces
140.21	143.26	3.05	2.87	94	1.32	43	--	4H	1W	
143.26	146.30	3.04	2.97	98	1.82	60	--	3H	1W	
146.30	149.35	3.05	2.79	91	1.04	34	--	3H	1W	Clay altered breccia zone with small stringer veins of pyrite and minor galena. Textural transition from clay altered gd to no clay alteration just chlorite.
149.35	152.40	3.05	2.97	97	2.20	72	--	4H	1W	
152.40	155.45	3.05	2.92	96	1.93	63	--	3H	1W	
155.45	158.50	3.05	3	98	0.84	28	--	2H	1W	No matching joint sets
158.50	161.54	3.04	2.95	97	1.48	49	--	3H	1W	Clay altered breccia zone with pyrite mineralization in clay altered medium- fine grained granodiorite
161.54	164.59	3.05	2.87	94	0.85	28	--	3H	1W	Clay altered breccia zone in siliceous granodiorite. Pyrite disseminated throughout and small cm size blebs of galena + sphalerite. Small vugs with galena and pyrite within
164.59	167.64	3.05	2.86	94	1.43	47	--	4H	1W	
167.64	170.69	3.05	2.81	92	1.12	37	--	4H	1W	
170.69	173.74	3.05	2.76	90	1.27	42	--	3H	1W	
173.74	176.78	3.04	3.01	99	0.91	30	--	2H	1W	Fractured breccia zone with ~5cm wide mineralized vein with pyrite and minor galena

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
176.78	179.83	3.05	2.91	95	1.78	58	--	3H	1W	
179.83	182.88	3.05	2.86	94	1.15	38	--	3H	1W	
182.88	185.93	3.05	2.75	90	0.98	32	--	3H	1W	
185.93	188.98	3.05	2.92	96	1.84	60	--	4H	1W	Very fine grained siliceous medium grey section in with clay altered medium grey granodiorite. Joint surface has disseminated pyrite just on exposed surface
188.98	192.02	3.04	2.89	95	0.75	25	--	4H	1W	
192.02	195.07	3.05	2.65	87	0.41	13	--	3H	1W	Fractured rubble zone
195.07	198.12	3.05	2.86	94	0.63	21	--	3H	1W	
198.12	201.17	3.05	2.82	92	0.52	17	--	3H	1W	
201.17	204.22	3.05	2.99	98	1.69	55	--	3H	1W	
204.22	207.26	3.04	2.95	97	2.19	72	--	4H	1W	
207.26	210.31	3.05	2.78	91	2.18	71	--	4H	1W	No matching joint sets
210.31	213.36	3.05	2.92	96	1.56	51	--	4H	1W	
213.36	216.41	3.05	2.82	92	1.37	45	--	3H	1W	
216.41	219.46	3.05	3.03	99	1.55	51	--	4H	1W	
219.46	222.50	3.04	2.87	94	1.70	56	--	3H	1W	Few unmatched joint sets
222.50	225.55	3.05	2.88	94	1.10	36	--	4H	1W	Thin 9cm wide vein of pyrite, chalcopyrite and minor galena
225.55	228.60	3.05	2.85	93	2.05	67	--	3H	1W	
228.60	231.65	3.05	2.99	98	2.20	72	--	3H	1W	Some grey clay alteration in section and small ~25cm wide vuggy white quartz vein with visible pyrite and minor galena and hematite
231.65	234.70	3.05	2.8	92	0.55	18	--	3H	1W	
234.70	237.74	3.04	2.9	95	1.17	38	--	3H	1W	
237.74	240.79	3.05	2.97	97	2.18	71	--	3H	1W	
240.79	243.84	3.05	3.02	99	1.81	59	--	3H	1W	
243.84	246.89	3.05	2.88	94	1.35	44	--	3H	1W	
246.89	249.94	3.05	3	98	1.81	59	--	4H	1W	
249.94	252.98	3.04	2.94	97	1.78	59	--	4H	1W	
252.98	256.03	3.05	3	98	1.89	62	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
256.03	259.08	3.05	2.99	98	1.55	51	--	3H	1W	
259.08	262.13	3.05	3	98	2.27	74	--	4H	1W	
262.13	265.18	3.05	2.97	97	2.44	80	--	4H	1W	
265.18	268.22	3.04	2.97	98	1.51	50	--	4H	1W	
268.22	271.27	3.05	2.87	94	1.31	43	--	4H	1W	
271.27	274.32	3.05	2.98	98	1.81	59	--	4H	1W	No matching joint set
274.32	277.37	3.05	2.94	96	1.58	52	--	4H	1W	
277.37	278.89	1.52	1.49	98	0.81	53	--	4H	1W	
278.89	281.94	3.05	2.98	98	2.55	84	--	4H	1W	
281.94	284.99	3.05	2.82	92	1.84	60	--	4H	1W	
284.99	288.04	3.05	2.75	90	1.84	60	--	3H	1W	Small rubble zone
288.04	291.08	3.04	2.76	91	0.69	23	--	3H	1W	
291.08	294.13	3.05	2.87	94	0.53	17	--	4H	1W	
294.13	297.18	3.05	2.98	98	1.99	65	--	4H	1W	
297.18	298.70	1.52	1.5	99	1.03	68	--	4H	1W	
298.70	301.75	3.05	2.99	98	2.33	76	--	4H	1W	
301.75	304.80	3.05	2.96	97	1.70	56	--	4H	1W	
304.80	307.85	3.05	3	98	1.39	46	--	3H	1W	Small vein of pyrite + galena and clay altered fault gouge in section
307.85	310.90	3.05	3.01	99	1.17	38	--	4H	1W	
310.90	313.94	3.04	2.95	97	1.78	59	--	4H	1W	
313.94	316.99	3.05	2.96	97	1.77	58	--	4H	1W	
316.99	320.04	3.05	3	98	1.92	63	--	3H	1W	Small 2cm wide vein of galena + pyrite with minor chalcopyrite in quartz
999.00	999.00	0.00	999	####	####	####	--	--	--	Duplicate row, discard

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	1.004	OVB	
2	3.475	OVB	
3	24.62	OVB	
4	4.028	OVB	
5	17.35	OVB	
6	2.232	OVB	
7	1.489	OVB	
8	1.751	OVB	
9	1.572	OVB	
10	3.917	OVB	
11	13.92	OVB	
12	4.48	OVB	
13	4.538	OVB	
14	2.544	OVB	
15	1.761	OVB	
16	3.21	OVB	
17	2.949	OVB	
18	1.984	OVB	
19	0.596	OVB	
20	2.842	OVB	
21	1.734	OVB	
22	2.748	OVB	
23	0.944	OVB	
24	7.24	OVB	
25	1.991	OVB	
26	1.044	OVB	
27	2.167	OVB	
28	1.723	OVB	
29	4.591	OVB	
30	1.474	OVB	
31	3.12	OVB	
32	1.386	OVB	
33	6.797	OVB	
34	11.24	OVB	
35	23.3	OVB	
36	2.139	OVB	
37	0.463	OVB	
38	1.596	OVB	
39	2.013	OVB	
40	6.043	OVB	
41	5.316	OVB	
42	7.218	OVB	
43	6.107	OVB	
44	1.692	OVB	
45	0.279	OVB	
46	1.512	OVB	
47	2.617	OVB	
48	1.509	OVB	
49	3.441	OVB	
50	28.51	OVB	
51	117.6	OVB	
52	0.843	OVB	
53	3.576	OVB	
54	3.686	OVB	
55	2.353	OVB	
56	3.763	OVB	
57	1.017	OVB	
58	3.978	OVB	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	5.012	OVB	
60	0.231	OVB	
61	0.117	GRD	
62	0.16	GRD	
63	0.266	GRD	
64	0.162	GRD	
65	0.045	GRD	
66	0.229	GRD	
67	0.157	GRD	
68	0.035	GRD	
69	0.543	GRD	
70	0.061	GRD	
71	0.136	GRD	
72	0.161	GRD	
73	0.109	GRD	
74	0.059	GRD	
75	0.275	GRD	
76	0.039	GRD	
77	0.017	GRD	
78	0.207	FLT	
79	0.248	FLT	
80	0.193	GRD	
81	0.625	GRD	
82	0.316	GRD	
83	0.33	GRD	
84	0.21	GRD	
85	0.108	GRD	
86	0.55	GRD	
87	0.171	GRD	
88	0.138	GRD	
89	0.128	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	0.566	GRD	
91	0.16	GRD	
92	0.194	GRD	
93	0.424	GRD	
94	0.504	GRD	
95	0.549	GRD	
96	0.149	GRD	
97	0.16	GRD	
98	0.444	GRD	
99	0.036	QFP	
100	0.111	QFP	
101	0.15	QFP	
102	0.157	QFP	
103	0.233	GRD	
104	0.05	GRD	
105	0.608	GRD	
106	0.147	GRD	
107	0.374	GRD	
108	0.07	GRD	
109	0.16	GRD	
110	0.158	GRD	
111	0.24	GRD	
112	0.463	GRD	
113	0.541	GRD	
114	0.244	GRD	
115	0.356	GRD	
116	0.181	GRD	
117	0.166	GRD	
118	0.211	QFP	
119	0.204	QFP	
120	0.242	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	0.464	QFP	
122	0.317	QFP	
123	0.435	QFP	
124	0.042	QFP	
125	0.152	QFP	
126	0.233	QFP	
127	0.237	QFP	
128	0.239	QFP	
129	0.055	QFP	
130	0.329	GRD	
131	0.151	GRD	
132	0.316	GRD	
133	0.359	GRD	
134	0.624	GRD	
135	0.175	GRD	
136	0.147	GRD	
137	0.195	GRD	
138	0.233	GRD	
139	0.29	GRD	
140	0.323	GRD	
141	0.889	GRD	
142	0.61	GRD	
143	0.204	GRD	
144	0.307	GRD	
145	0.253	GRD	
146	0.246	GRD	
147	0.519	GRD	
148	3.582	GRD	
149	11.96	GRD	
150	8.043	GRD	
151	0.629	GRD	
152	1.955	GRD	
153	0.743	GRD	
154	17.76	GRD	
155	3.036	GRD	
156	0.303	GRD	
157	0.408	GRD	
158	0.685	GRD	
159	0.79	GRD	
160	0.279	BXA	
161	0.172	BXA	
162	0.314	BXA	
163	0.096	GRD	
164	0.382	GRD	
165	0.515	GRD	
166	0.554	GRD	
167	0.539	GRD	
168	0.567	GRD	
169	2.656	GRD	
170	7.202	GRD	
171	1.384	GRD	
172	12.53	GRD	
173	5.751	GRD	
174	0.457	GRD	
175	0.916	GRD	
176	0.242	GRD	
177	1.115	GRD	
178	1.093	GRD	
179	1.125	GRD	
180	0.183	GRD	
181	0.188	GRD	
182	0.379	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	0.256	GRD	
184	0.327	GRD	
185	0.521	GRD	
186	1.031	GRD	
187	1.329	GRD	
188	3.269	GRD	
189	2.066	GRD	
190	8.607	GRD	
191	0.329	GRD	
192	2.348	GRD	
193	0.186	GRD	
194	0.566	GRD	
195	3.843	GRD	
196	0.91	GRD	
197	0.535	GRD	
198	0.624	GRD	
199	1.69	GRD	
200	0.92	GRD	
201	1.44	GRD	
202	0.246	GRD	
203	0.156	GRD	
204	0.413	GRD	
205	1.341	GRD	
206	0.323	GRD	
207	0.503	GRD	
208	0.828	GRD	
209	1.732	GRD	
210	0.49	GRD	
211	0.781	GRD	
212	12	GRD	
213	0.774	GRD	
214	0.438	GRD	
215	0.882	GRD	
216	0.374	GRD	
217	0.634	GRD	
218	0.236	GRD	
219	0.523	GRD	
220	0.478	GRD	
221	0.477	GRD	
222	0.637	GRD	
223	0.451	GRD	
224	0.351	GRD	
225	0.556	GRD	
226	0.502	GRD	
227	0.452	GRD	
228	0.506	GRD	
229	0.301	GRD	
230	0.279	GRD	
231	0.193	GRD	
232	0.228	GRD	
233	0.508	GRD	
234	0.544	GRD	
235	0.494	GRD	
236	0.793	GRD	
237	0.562	GRD	
238	0.174	GRD	
239	0.708	GRD	
240	0.558	GRD	
241	0.398	QFP	
242	0.385	QFP	
243	1.368	GRD	
244	0.237	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
245	5.721	GRD	
246	13.49	GRD	
247	16.26	GRD	
248	24.48	GRD	
249	0.781	GRD	
250	0.271	GRD	
251	37.91	GRD	
252	8.43	GRD	
253	0.772	GRD	
254	0.538	GRD	
255	0.561	GRD	
256	34.26	GRD	
257	13.11	GRD	
258	0.37	GRD	
259	0.945	GRD	
260	0.508	GRD	
261	0.684	GRD	
262	11.65	GRD	
263	57.24	GRD	
264	40.16	GRD	
265	45.8	GRD	
266	36.8	GRD	
267	50.52	GRD	
268	6.23	GRD	
269	11.3	GRD	
270	49.51	GRD	
271	53.83	GRD	
272	41.72	GRD	
273	48.87	GRD	
274	48.04	GRD	
275	48.7	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
276	48.45	GRD	
277	19.18	GRD	
278	49.06	GRD	
279	37.18	GRD	
280	41.27	GRD	
281	18.55	GRD	
282	10.64	GRD	
283	0.523	GRD	
284	7.479	GRD	
285	1.128	GRD	
286	34.58	GRD	
287	19.24	GRD	
288	32.93	GRD	
289	30.69	GRD	
290	1.362	GRD	
291	1.773	GRD	
292	2.481	GRD	
293	36.45	GRD	
294	1.131	GRD	
295	20.17	GRD	
296	0.97	GRD	
297	31.31	GRD	
298	0.267	GRD	
299	0.415	GRD	
300	1.38	GRD	
301	15.38	GRD	
302	17.51	GRD	
303	0.752	GRD	
304	11.6	GRD	
305	3.035	GRD	
306	1.284	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
307	0.448	GRD	
308	2.177	GRD	
309	0.818	GRD	
310	0.698	GRD	
311	1.871	GRD	
312	27.19	GRD	
313	12.45	GRD	
314	14.41	GRD	
315	24.44	GRD	
316	17.87	GRD	
317	10.91	GRD	
318	11.33	GRD	
319	1.203	GRD	
320	10.56	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W595575	☐	20-031	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595632	☐	20-034	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595614	☐	20-033	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700720	☐	20-022	High Grade	Klaza2020-C	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595588	☐	20-033	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595570	☐	20-031	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595547	☐	20-031	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595535	☐	20-030	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595518	☐	20-030	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594987	☐	20-027	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594981	☐	20-027	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594967	☐	20-027	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595593	☐	20-033	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594954	☐	20-026	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594938	☐	20-026	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W594932	☐	20-026	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700734	☐	20-022	High Grade	Klaza2020-A	☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W595511	☐	20-030	Low Grade	Klaza2020-A	☐	☐	☐
94.15	95.65	1.50	GRD	1.44	96	W594925	☐	20-026	Low Grade		☐	☐	☐
95.65	96.15	0.50	GRD	0.49	98	W594926	☐	20-026	Low Grade		☐	☐	☐
95.65	96.15	0.50	GRD	0.49	98	W594927	☐	20-026	Low Grade		☐	☑	☐
96.15	96.65	0.50	GRD	0.48	96	W594928	☐	20-026	Low Grade		☐	☐	☐
96.65	97.15	0.50	GRD	0.46	92	W594929	☐	20-026	Low Grade		☐	☐	☐
97.15	98.65	1.50	GRD	1.40	93	W594930	☐	20-026	Low Grade		☐	☐	☐
102.11	103.61	1.50	QFP	1.45	97	W594931	☐	20-026	Low Grade	Klaza2020-B	☐	☐	☐
103.61	105.10	1.49	GRD	1.47	99	W594933	☐	20-026	Low Grade		☐	☐	☐
105.10	106.25	1.15	GRD	1.14	99	W594934	☐	20-026	Low Grade		☐	☐	☐
106.25	107.75	1.50	GRD	1.42	95	W594935	☐	20-026	Low Grade		☐	☐	☐
107.75	108.25	0.50	GRD	0.46	92	W594936	☐	20-026	Low Grade		☐	☐	☐
108.25	109.75	1.50	GRD	1.50	100	W594937	☐	20-026	Low Grade		☐	☐	☐
109.75	111.25	1.50	GRD	1.46	97	W594939	☐	20-026	Low Grade		☐	☐	☐
111.25	112.00	0.75	GRD	0.70	93	W594940	☐	20-026	Low Grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.46	97	W594941	☐	20-026	Low Grade		☐	☐	☐
113.50	114.45	0.95	GRD	0.82	86	W594942	☐	20-026	Low Grade		☐	☐	☐
114.45	115.50	1.05	GRD	0.97	92	W594943	☐	20-026	Low Grade		☐	☐	☐
115.50	116.00	0.50	GRD	0.48	96	W594944	☐	20-026	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
116.00	117.11	1.11	GRD	0.94	85	W594945	☐	20-026	Low Grade		☐	☐	☐
117.11	118.10	0.99	QFP, GRD	0.99	100	W594946	☐	20-026	Low Grade		☐	☐	☐
118.10	119.20	1.10	QFP	0.95	86	W594947	☐	20-026	Low Grade		☐	☐	☐
118.10	119.20	1.10	QFP	0.95	86	W594948	☐	20-026	Low Grade		☐	☐	☑
119.20	120.20	1.00	QFP	0.97	97	W594949	☐	20-026	Low Grade		☐	☐	☐
120.20	121.70	1.50	QFP	1.17	78	W594950	☐	20-026	Low Grade		☐	☐	☐
121.70	122.65	0.95	QFP	0.84	88	W594951	☐	20-026	Low Grade		☐	☐	☐
122.65	123.65	1.00	QFP	0.79	79	W594952	☐	20-026	Low Grade		☐	☐	☐
123.65	125.15	1.50	QFP	1.08	72	W594953	☐	20-026	Low Grade		☐	☐	☐
125.15	126.65	1.50	QFP	1.21	81	W594955	☐	20-026	Low Grade		☐	☐	☐
126.65	128.15	1.50	QFP	1.50	100	W594956	☐	20-026	Low Grade		☐	☐	☐
128.15	129.65	1.50	QFP	1.32	88	W594957	☐	20-026	Low Grade		☐	☐	☐
129.65	131.07	1.42	GRD	1.36	96	W594958	☐	20-026	Low Grade		☐	☐	☐
131.07	131.82	0.75	GRD, QFP	0.63	84	W594959	☐	20-026	Low Grade		☐	☐	☐
131.82	133.32	1.50	GRD, QFP	1.38	92	W594960	☐	20-026	Low Grade		☐	☐	☐
133.32	134.50	1.18	GRD	1.10	93	W594961	☐	20-027	Low Grade		☐	☐	☐
134.50	136.00	1.50	GRD	1.45	97	W594962	☐	20-027	Low Grade		☐	☐	☐
136.00	136.50	0.50	GRD	0.48	96	W594963	☐	20-027	Low Grade		☐	☐	☐
136.50	137.30	0.80	GRD	0.71	89	W594964	☐	20-027	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
137.30	138.12	0.82	GRD	0.75	91	W594965	☐	20-027	Low Grade		☐	☐	☐
138.12	138.62	0.50	GRD	0.48	96	B700718	☐	20-022	High Grade		☐	☐	☐
138.62	140.10	1.48	GRD	1.37	93	W594966	☐	20-027	Low Grade		☐	☐	☐
140.10	141.10	1.00	GRD	0.87	87	W594968	☐	20-027	Low Grade		☐	☐	☐
141.10	142.00	0.90	GRD	0.90	100	W594969	☐	20-027	Low Grade		☐	☐	☐
142.00	143.20	1.20	GRD	1.11	93	W594970	☐	20-027	Low Grade		☐	☐	☐
143.20	143.70	0.50	GRD	0.45	90	W594971	☐	20-027	Low Grade		☐	☐	☐
143.70	145.20	1.50	GRD	1.45	97	W594972	☐	20-027	Low Grade		☐	☐	☐
145.20	146.30	1.10	GRD	1.07	97	W594973	☐	20-027	Low Grade		☐	☐	☐
145.20	146.30	1.10	GRD	1.07	97	W594974	☐	20-027	Low Grade		☐	☐	☑
146.30	147.30	1.00	GRD	0.91	91	W594975	☐	20-027	Low Grade		☐	☐	☐
147.30	148.80	1.50	GRD	1.42	95	W594976	☐	20-027	Low Grade		☐	☐	☐
148.80	150.00	1.20	GRD	1.17	98	W594977	☐	20-027	Low Grade		☐	☐	☐
150.00	150.50	0.50	GRD	0.45	90	W594978	☐	20-027	Low Grade		☐	☐	☐
150.50	152.00	1.50	GRD	1.43	95	W594979	☐	20-027	Low Grade		☐	☐	☐
152.00	153.50	1.50	GRD	1.40	93	W594980	☐	20-027	Low Grade		☐	☐	☐
153.50	154.70	1.20	GRD	1.20	100	W594982	☐	20-027	Low Grade		☐	☐	☐
154.70	155.85	1.15	GRD	0.96	83	W594983	☐	20-027	Low Grade		☐	☐	☐
155.85	156.35	0.50	GRD	0.50	100	B700719	☐	20-022	High Grade	Klaza2020-C	☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
156.35	157.85	1.50	GRD	1.46	97	W594984	☐	20-027	Low Grade		☐	☐	☐
157.85	159.35	1.50	GRD	1.45	97	W594985	☐	20-027	Low Grade		☐	☐	☐
159.35	160.65	1.30	GRD	1.28	98	W594986	☐	20-027	Low Grade		☐	☐	☐
160.65	161.65	1.00	BXA	0.98	98	W594988	☐	20-027	Low Grade		☐	☐	☐
161.65	162.55	0.90	BXA	0.90	100	W594989	☐	20-027	Low Grade		☐	☐	☐
162.55	163.55	1.00	BXA, GRD	0.82	82	W594990	☐	20-027	Low Grade		☐	☐	☐
163.55	164.30	0.75	GRD	0.65	87	W594991	☐	20-027	Low Grade		☐	☐	☐
164.30	165.10	0.80	GRD	0.76	95	W594992	☐	20-027	Low Grade		☐	☐	☐
164.30	165.10	0.80	GRD	0.49	61	W594993	☐	20-027	Low Grade		☐	☑	☐
165.10	165.60	0.50	GRD	0.49	98	B700721	☐	20-022	High Grade		☐	☐	☐
165.60	167.10	1.50	GRD	1.36	91	W594994	☐	20-027	Low Grade		☐	☐	☐
167.10	168.10	1.00	GRD	0.97	97	W594995	☐	20-027	Low Grade		☐	☐	☐
168.10	169.15	1.05	GRD	0.99	94	W594996	☐	20-027	Low Grade		☐	☐	☐
169.15	169.65	0.50	GRD	0.48	96	W594997	☐	20-027	Low Grade		☐	☐	☐
169.65	171.15	1.50	GRD	1.36	91	W594998	☐	20-027	Low Grade		☐	☐	☐
171.15	172.10	0.95	GRD	0.92	97	W594999	☐	20-027	Low Grade		☐	☐	☐
172.10	173.00	0.90	GRD	0.89	99	W595000	☐	20-027	Low Grade		☐	☐	☐
173.00	173.50	0.50	GRD	0.47	94	W595501	☐	20-030	Low Grade		☐	☐	☐
173.50	174.00	0.50	GRD	0.46	92	W595502	☐	20-030	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
174.00	174.50	0.50	GRD	0.50	100	W595503	☐	20-030	Low Grade		☐	☐	☐
174.00	174.50	0.50	GRD	0.50	100	W595504	☐	20-030	Low Grade		☐	☑	☐
174.50	175.40	0.90	GRD	0.84	93	W595505	☐	20-030	Low Grade		☐	☐	☐
175.40	175.90	0.50	GRD	0.50	100	B700722	☐	20-022	High Grade		☐	☐	☐
175.90	176.40	0.50	GRD	0.49	98	W595506	☐	20-030	Low Grade		☐	☐	☐
176.40	176.90	0.50	GRD	0.48	96	W595507	☐	20-030	Low Grade		☐	☐	☐
176.90	178.30	1.40	GRD	1.26	90	W595508	☐	20-030	Low Grade		☐	☐	☐
178.30	179.55	1.25	GRD	1.22	98	W595509	☐	20-030	Low Grade		☐	☐	☐
179.55	180.05	0.50	GRD	0.46	92	W595510	☐	20-030	Low Grade		☐	☐	☐
180.05	181.50	1.45	GRD	1.36	94	W595512	☐	20-030	Low Grade		☐	☐	☐
181.50	183.00	1.50	GRD	1.46	97	W595513	☐	20-030	Low Grade		☐	☐	☐
183.00	184.00	1.00	GRD	0.94	94	W595514	☐	20-030	Low Grade		☐	☐	☐
184.00	185.10	1.10	GRD	1.02	93	W595515	☐	20-030	Low Grade		☐	☐	☐
185.10	185.60	0.50	GRD	0.49	98	B700723	☐	20-022	High Grade		☐	☐	☐
185.60	187.10	1.50	GRD	1.46	97	W595516	☐	20-030	Low Grade		☐	☐	☐
187.10	188.30	1.20	GRD	1.12	93	W595517	☐	20-030	Low Grade		☐	☐	☐
188.30	189.65	1.35	GRD	1.32	98	W595519	☐	20-030	Low Grade		☐	☐	☐
189.65	190.65	1.00	GRD	0.92	92	W595520	☐	20-030	Low Grade		☐	☐	☐
190.65	191.15	0.50	GRD	0.48	96	W595521	☐	20-030	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
191.15	192.65	1.50	GRD	1.46	97	W595522	☐	20-030	Low Grade		☐	☐	☐
192.65	194.15	1.50	GRD	1.41	94	W595523	☐	20-030	Low Grade		☐	☐	☐
194.15	195.30	1.15	GRD	1.14	99	W595524	☐	20-030	Low Grade		☐	☐	☐
195.30	196.45	1.15	GRD	1.05	91	W595525	☐	20-030	Low Grade		☐	☐	☐
196.45	196.95	0.50	GRD	0.48	96	W595526	☐	20-030	Low Grade		☐	☐	☐
196.45	196.95	0.50	GRD	0.48	96	W595527	☐	20-030	Low Grade		☐	☐	☑
196.95	197.95	1.00	GRD	0.97	97	W595528	☐	20-030	Low Grade		☐	☐	☐
197.95	199.40	1.45	GRD	1.37	94	W595529	☐	20-030	Low Grade		☐	☐	☐
199.40	200.50	1.10	GRD	1.07	97	W595530	☐	20-030	Low Grade		☐	☐	☐
200.50	201.60	1.10	GRD	1.06	96	W595531	☐	20-030	Low Grade		☐	☐	☐
201.60	202.30	0.70	GRD	0.68	97	W595532	☐	20-030	Low Grade		☐	☐	☐
202.30	203.30	1.00	GRD	0.96	96	W595533	☐	20-030	Low Grade		☐	☐	☐
203.30	204.30	1.00	GRD	0.98	98	W595534	☐	20-030	Low Grade		☐	☐	☐
204.30	205.50	1.20	GRD	1.19	99	W595536	☐	20-030	Low Grade		☐	☐	☐
205.50	206.00	0.50	GRD	0.49	98	W595537	☐	20-030	Low Grade		☐	☐	☐
206.00	207.15	1.15	GRD	1.02	89	W595538	☐	20-030	Low Grade		☐	☐	☐
207.15	207.65	0.50	GRD	0.46	92	W595539	☐	20-030	Low Grade		☐	☐	☐
207.65	209.10	1.45	GRD	1.34	92	W595540	☐	20-030	Low Grade		☐	☐	☐
209.10	210.65	1.55	GRD	1.42	92	W595541	☐	20-031	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
210.65	212.15	1.50	GRD	1.46	97	W595542	☐	20-031	Low Grade		☐	☐	☐
212.15	213.65	1.50	GRD	1.40	93	W595543	☐	20-031	Low Grade		☐	☐	☐
213.65	215.15	1.50	GRD	1.47	98	W595544	☐	20-031	Low Grade		☐	☐	☐
215.15	216.00	0.85	GRD	0.81	95	W595545	☐	20-031	Low Grade		☐	☐	☐
216.00	216.95	0.95	GRD	0.93	98	W595546	☐	20-031	Low Grade		☐	☐	☐
216.95	217.45	0.50	GRD	0.48	96	B700724	☐	20-022	High Grade		☐	☐	☐
217.45	218.95	1.50	GRD	1.50	100	W595548	☐	20-031	Low Grade		☐	☐	☐
218.95	220.00	1.05	GRD	1.03	98	W595549	☐	20-031	Low Grade		☐	☐	☐
220.00	220.80	0.80	GRD	0.73	91	W595550	☐	20-031	Low Grade		☐	☐	☐
220.80	221.30	0.50	GRD	0.46	92	W595551	☐	20-031	Low Grade		☐	☐	☐
221.30	222.40	1.10	GRD	1.05	95	W595552	☐	20-031	Low Grade		☐	☐	☐
222.40	223.55	1.15	GRD	1.03	90	W595553	☐	20-031	Low Grade		☐	☐	☐
222.40	223.55	1.15	GRD	1.03	90	W595554	☐	20-031	Low Grade		☐	☐	☑
223.55	224.05	0.50	GRD	0.50	100	B700725	☐	20-022	High Grade		☐	☐	☐
224.05	225.55	1.50	GRD	1.46	97	W595555	☐	20-031	Low Grade		☐	☐	☐
225.55	227.05	1.50	GRD	1.48	99	W595556	☐	20-031	Low Grade		☐	☐	☐
227.05	228.00	0.95	GRD	0.89	94	W595557	☐	20-031	Low Grade		☐	☐	☐
228.00	228.95	0.95	GRD	0.92	97	W595558	☐	20-031	Low Grade		☐	☐	☐
228.95	229.70	0.75	GRD	0.74	99	B700726	☐	20-022	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
228.95	229.70	0.75	GRD	0.75	100	B700727	☐	20-022	High Grade		☐	☐	☑
229.70	230.20	0.50	GRD	0.50	100	W595559	☐	20-031	Low Grade		☐	☐	☐
230.20	230.70	0.50	GRD	0.48	96	W595560	☐	20-031	Low Grade		☐	☐	☐
230.20	230.70	0.50	GRD	0.48	96	W595561	☐	20-031	Low Grade		☐	☑	☐
230.70	232.05	1.35	GRD	1.32	98	W595562	☐	20-031	Low Grade		☐	☐	☐
232.05	233.55	1.50	GRD	1.48	99	W595563	☐	20-031	Low Grade		☐	☐	☐
233.55	234.05	0.50	GRD	0.47	94	B700728	☐	20-022	High Grade		☐	☐	☐
234.05	234.70	0.65	GRD	0.59	91	W595564	☐	20-031	Low Grade		☐	☐	☐
234.70	235.70	1.00	GRD	0.90	90	W595565	☐	20-031	Low Grade		☐	☐	☐
235.70	236.50	0.80	GRD	0.75	94	W595566	☐	20-031	Low Grade		☐	☐	☐
236.50	237.45	0.95	GRD	0.91	96	W595567	☐	20-031	Low Grade		☐	☐	☐
237.45	237.95	0.50	GRD	0.44	88	B700729	☐	20-022	High Grade		☐	☐	☐
237.95	238.45	0.50	GRD	0.50	100	W595568	☐	20-031	Low Grade		☐	☐	☐
238.45	238.95	0.50	GRD	0.48	96	W595569	☐	20-031	Low Grade		☐	☐	☐
238.95	239.80	0.85	GRD	0.85	100	W595571	☐	20-031	Low Grade		☐	☐	☐
239.80	240.70	0.90	GRD	0.90	100	W595572	☐	20-031	Low Grade		☐	☐	☐
240.70	241.90	1.20	QFP, GRD	1.17	98	W595573	☐	20-031	Low Grade		☐	☐	☐
241.90	242.40	0.50	QFP	0.50	100	B700730	☐	20-022	High Grade		☐	☐	☐
242.40	243.30	0.90	GRD	0.85	94	W595574	☐	20-031	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
243.30	244.30	1.00	GRD	0.97	97	W595576	☐	20-031	Low Grade		☐	☐	☐
244.30	244.80	0.50	GRD	0.49	98	W595577	☐	20-031	Low Grade		☐	☐	☐
244.80	246.30	1.50	GRD	1.47	98	W595578	☐	20-031	Low Grade		☐	☐	☐
246.30	247.50	1.20	GRD	1.16	97	W595579	☐	20-031	Low Grade		☐	☐	☐
247.50	248.65	1.15	GRD	1.14	99	W595580	☐	20-031	Low Grade		☐	☐	☐
248.65	249.65	1.00	GRD	0.99	99	W595581	☐	20-033	Low Grade		☐	☐	☐
249.65	250.15	0.50	GRD	0.48	96	B700731	☐	20-022	High Grade		☐	☐	☐
250.15	251.65	1.50	GRD	1.40	93	W595582	☐	20-033	Low Grade		☐	☐	☐
251.65	253.00	1.35	GRD	1.30	96	W595583	☐	20-033	Low Grade		☐	☐	☐
253.00	253.50	0.50	GRD	0.50	100	W595584	☐	20-033	Low Grade		☐	☐	☐
253.50	254.50	1.00	GRD	0.96	96	W595585	☐	20-033	Low Grade		☐	☐	☐
254.50	255.45	0.95	GRD	0.95	100	W595586	☐	20-033	Low Grade		☐	☐	☐
255.45	255.95	0.50	GRD	0.50	100	W595587	☐	20-033	Low Grade		☐	☐	☐
255.95	257.45	1.50	GRD	1.48	99	W595589	☐	20-033	Low Grade		☐	☐	☐
257.45	258.55	1.10	GRD	1.10	100	W595590	☐	20-033	Low Grade		☐	☐	☐
258.55	259.40	0.85	GRD	0.83	98	W595591	☐	20-033	Low Grade		☐	☐	☐
259.40	260.40	1.00	GRD	0.93	93	W595592	☐	20-033	Low Grade		☐	☐	☐
260.40	260.90	0.50	VEN	0.50	100	B700732	☐	20-022	High Grade		☐	☐	☐
260.90	262.40	1.50	GRD	1.44	96	W595594	☐	20-033	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
266.40	267.90	1.50	GRD	1.47	98	W595595	☐	20-033	Low Grade		☐	☐	☐
267.90	268.40	0.50	GRD	0.49	98	W595596	☐	20-033	Low Grade		☐	☐	☐
268.40	269.90	1.50	GRD	1.45	97	W595597	☐	20-033	Low Grade		☐	☐	☐
276.10	277.00	0.90	GRD	0.88	98	W595598	☐	20-033	Low Grade		☐	☐	☐
277.00	277.60	0.60	GRD	0.59	98	W595599	☐	20-033	Low Grade		☐	☐	☐
277.00	277.60	0.60	GRD	0.59	98	W595600	☐	20-033	Low Grade		☐	☑	☐
277.60	279.10	1.50	GRD	1.50	100	W595601	☐	20-033	Low Grade		☐	☐	☐
279.10	280.10	1.00	GRD	0.96	96	W595602	☐	20-033	Low Grade		☐	☐	☐
280.10	281.10	1.00	GRD	0.99	99	W595603	☐	20-033	Low Grade		☐	☐	☐
281.10	281.60	0.50	GRD	0.49	98	B700733	☐	20-022	High Grade		☐	☐	☐
281.60	283.00	1.40	GRD	1.27	91	W595604	☐	20-033	Low Grade		☐	☐	☐
283.00	283.50	0.50	GRD	0.50	100	W595605	☐	20-033	Low Grade		☐	☐	☐
283.50	284.00	0.50	GRD	0.41	82	W595606	☐	20-033	Low Grade		☐	☐	☐
283.50	284.00	0.50	GRD	0.41	82	W595607	☐	20-033	Low Grade		☐	☐	☑
284.00	284.50	0.50	GRD	0.50	100	W595608	☐	20-033	Low Grade		☐	☐	☐
291.80	293.30	1.50	GRD	1.45	97	W595609	☐	20-033	Low Grade		☐	☐	☐
293.30	293.80	0.50	GRD	0.50	100	W595610	☐	20-033	Low Grade		☐	☐	☐
293.80	294.80	1.00	GRD	0.99	99	W595611	☐	20-033	Low Grade		☐	☐	☐
294.80	295.30	0.50	GRD	0.50	100	W595612	☐	20-033	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
295.30	296.80	1.50	GRD	1.49	99	W595613	☐	20-033	Low Grade		☐	☐	☐
296.80	297.30	0.50	GRD	0.50	100	W595615	☐	20-033	Low Grade		☐	☐	☐
297.30	297.80	0.50	GRD	0.50	100	W595616	☐	20-033	Low Grade		☐	☐	☐
297.80	298.50	0.70	GRD	0.70	100	W595617	☐	20-033	Low Grade		☐	☐	☐
298.50	299.00	0.50	GRD	0.46	92	W595618	☐	20-033	Low Grade		☐	☐	☐
299.00	299.85	0.85	GRD	0.84	99	W595619	☐	20-033	Low Grade		☐	☐	☐
299.85	301.35	1.50	GRD	1.46	97	W595620	☐	20-033	Low Grade		☐	☐	☐
301.35	301.85	0.50	GRD	0.50	100	W595621	☐	20-034	Low Grade		☐	☐	☐
301.85	303.35	1.50	GRD	1.47	98	W595622	☐	20-034	Low Grade		☐	☐	☐
303.35	304.70	1.35	GRD	1.34	99	W595623	☐	20-034	Low Grade		☐	☐	☐
304.70	306.20	1.50	GRD	1.39	93	W595624	☐	20-034	Low Grade		☐	☐	☐
306.20	306.70	0.50	GRD	0.50	100	B700735	☐	20-022	High Grade		☐	☐	☐
306.70	307.50	0.80	GRD	0.80	100	W595625	☐	20-034	Low Grade		☐	☐	☐
306.70	307.50	0.80	GRD	0.80	100	W595626	☐	20-034	Low Grade		☐	☐	☑
307.50	308.00	0.50	GRD	0.49	98	W595627	☐	20-034	Low Grade		☐	☐	☐
308.00	309.45	1.45	GRD	1.38	95	W595628	☐	20-034	Low Grade		☐	☐	☐
309.45	310.95	1.50	GRD	1.47	98	W595629	☐	20-034	Low Grade		☐	☐	☐
310.95	311.45	0.50	GRD	0.50	100	W595630	☐	20-034	Low Grade		☐	☐	☐
311.45	312.95	1.50	GRD	1.44	96	W595631	☐	20-034	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
312.95	314.00	1.05	GRD	1.05	100	W595633	☐	20-034	Low Grade		☐	☐	☐
314.00	314.70	0.70	GRD	0.69	99	W595634	☐	20-034	Low Grade		☐	☐	☐
314.70	316.20	1.50	GRD	1.45	97	W595635	☐	20-034	Low Grade		☐	☐	☐
316.20	316.70	0.50	GRD	0.48	96	W595636	☐	20-034	Low Grade		☐	☐	☐
316.70	317.40	0.70	GRD	0.69	99	W595637	☐	20-034	Low Grade		☐	☐	☐
317.40	317.90	0.50	GRD	0.45	90	W595638	☐	20-034	Low Grade		☐	☐	☐
317.40	317.90	0.50	GRD	0.45	90	W595639	☐	20-034	Low Grade		☐	☑	☐
317.90	319.20	1.30	GRD	1.27	98	W595640	☐	20-034	Low Grade		☐	☐	☐
319.20	320.04	0.84	GRD	0.83	99	W595641	☐	20-034	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-022	B700720	0.00	0.00	12.10	30	☐	☐	☐	☑ Klaza2020-C	
20-022	B700734	0.00	0.00	0.61	240	☐	☐	☐	☑ Klaza2020-A	
20-026	W594932	0.00	0.00	2.90	750	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-026	W594938	0.00	0.00	0.65	180	☐	☐	☐	☑ Klaza2020-A	
20-026	W594954	0.00	0.00	0.00	30	☐	☐	☑	☐	
20-027	W594967	0.00	0.00	0.60	190	☐	☐	☐	☑ Klaza2020-A	
20-027	W594981	0.00	0.00	2.88	880	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-027	W594987	0.00	0.00	0.00	30	☐	☐	☑	☐	
20-030	W595511	0.00	0.00	0.64	210	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-030	W595518	0.00	0.00	2.90	160	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-030	W595535	0.00	0.00	0.00	30	☐	☐	☑	☐	
20-031	W595547	0.00	0.00	2.88	860	☐	☐	☐	☑ Klaza2020-B	
20-031	W595570	0.00	0.00	0.00	30	☐	☐	☑	☐	
20-031	W595575	0.00	0.00	0.62	220	☐	☐	☐	☑ Klaza2020-A	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-033	W595588	0.00	0.00	0.01	30	☐	☐	☑	☐	
20-033	W595593	0.00	0.00	0.63	300	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-033	W595614	0.00	0.00	2.86	100	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-034	W595632	0.00	0.00	2.90	90	☐	☐	☐	☑ Klaza2020-B	
20-026	W594925	94.15	95.65	0.01	1130	☐	☐	☐	☐	
20-026	W594926	95.65	96.15	0.02	800	☐	☐	☐	☐	
20-026	W594927	95.65	96.15	0.01	680	☑	☐	☐	☐	
20-026	W594928	96.15	96.65	0.01	1010	☐	☐	☐	☐	
20-026	W594929	96.65	97.15	0.53	220	☐	☐	☐	☐	
20-026	W594930	97.15	98.65	0.01	520	☐	☐	☐	☐	
20-026	W594931	102.11	103.61	0.06	370	☐	☐	☐	☐ Klaza2020-B	
20-026	W594933	103.61	105.10	0.01	1130	☐	☐	☐	☐	
20-026	W594934	105.10	106.25	0.01	670	☐	☐	☐	☐	
20-026	W594935	106.25	107.75	0.01	2640	☐	☐	☐	☐	
20-026	W594936	107.75	108.25	0.01	1380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-026	W594937	108.25	109.75	0.01	3180	☐	☐	☐	☐	
20-026	W594939	109.75	111.25	0.03	2340	☐	☐	☐	☐	
20-026	W594940	111.25	112.00	0.01	1640	☐	☐	☐	☐	
20-026	W594941	112.00	113.50	0.02	1380	☐	☐	☐	☐	
20-026	W594942	113.50	114.45	0.01	2380	☐	☐	☐	☐	
20-026	W594943	114.45	115.50	0.02	1870	☐	☐	☐	☐	
20-026	W594944	115.50	116.00	0.02	2120	☐	☐	☐	☐	
20-026	W594945	116.00	117.11	0.01	1780	☐	☐	☐	☐	
20-026	W594946	117.11	118.10	0.00	1340	☐	☐	☐	☐	
20-026	W594947	118.10	119.20	0.00	2510	☐	☐	☐	☐	
20-026	W594948	118.10	119.20	0.00	2410	☐	☑	☐	☐	
20-026	W594949	119.20	120.20	0.00	1220	☐	☐	☐	☐	
20-026	W594950	120.20	121.70	0.00	2070	☐	☐	☐	☐	
20-026	W594951	121.70	122.65	0.00	490	☐	☐	☐	☐	
20-026	W594952	122.65	123.65	0.00	2990	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-026	W594953	123.65	125.15	0.02	2200	☐	☐	☐	☐	
20-026	W594955	125.15	126.65	0.00	5180	☐	☐	☐	☐	
20-026	W594956	126.65	128.15	0.00	320	☐	☐	☐	☐	
20-026	W594957	128.15	129.65	0.00	1080	☐	☐	☐	☐	
20-026	W594958	129.65	131.07	0.00	3370	☐	☐	☐	☐	
20-026	W594959	131.07	131.82	0.00	530	☐	☐	☐	☐	
20-026	W594960	131.82	133.32	0.02	1600	☐	☐	☐	☐	
20-027	W594961	133.32	134.50	0.11	280	☐	☐	☐	☐	
20-027	W594962	134.50	136.00	0.00	1830	☐	☐	☐	☐	
20-027	W594963	136.00	136.50	0.06	1170	☐	☐	☐	☐	
20-027	W594964	136.50	137.30	0.01	2140	☐	☐	☐	☐	
20-027	W594965	137.30	138.12	0.02	2250	☐	☐	☐	☐	
20-022	B700718	138.12	138.62	0.06	100	☐	☐	☐	☐	
20-027	W594966	138.62	140.10	0.01	1250	☐	☐	☐	☐	
20-027	W594968	140.10	141.10	0.01	2020	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-027	W594969	141.10	142.00	0.01	4210	☐	☐	☐	☐	
20-027	W594970	142.00	143.20	0.01	2630	☐	☐	☐	☐	
20-027	W594971	143.20	143.70	0.16	420	☐	☐	☐	☐	
20-027	W594972	143.70	145.20	0.00	2000	☐	☐	☐	☐	
20-027	W594973	145.20	146.30	0.04	920	☐	☐	☐	☐	
20-027	W594974	145.20	146.30	0.03	770	☐	☑	☐	☐	
20-027	W594975	146.30	147.30	0.13	830	☐	☐	☐	☐	
20-027	W594976	147.30	148.80	0.01	3350	☐	☐	☐	☐	
20-027	W594977	148.80	150.00	0.00	3300	☐	☐	☐	☐	
20-027	W594978	150.00	150.50	0.15	290	☐	☐	☐	☐	
20-027	W594979	150.50	152.00	0.01	3080	☐	☐	☐	☐	
20-027	W594980	152.00	153.50	0.01	2170	☐	☐	☐	☐	
20-027	W594982	153.50	154.70	0.01	5350	☐	☐	☐	☐	
20-027	W594983	154.70	155.85	0.01	3070	☐	☐	☐	☐	
20-022	B700719	155.85	156.35	0.45	430	☐	☐	☐	☐ Klaza2020-C	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-027	W594984	156.35	157.85	0.01	1350	☐	☐	☐	☐	
20-027	W594985	157.85	159.35	0.02	2470	☐	☐	☐	☐	
20-027	W594986	159.35	160.65	0.11	170	☐	☐	☐	☐	
20-027	W594988	160.65	161.65	0.02	260	☐	☐	☐	☐	
20-027	W594989	161.65	162.55	0.01	1580	☐	☐	☐	☐	
20-027	W594990	162.55	163.55	0.10	410	☐	☐	☐	☐	
20-027	W594991	163.55	164.30	0.03	1470	☐	☐	☐	☐	
20-027	W594992	164.30	165.10	0.01	1500	☐	☐	☐	☐	
20-027	W594993	164.30	165.10	0.01	1860	☑	☐	☐	☐	
20-022	B700721	165.10	165.60	0.31	510	☐	☐	☐	☐	
20-027	W594994	165.60	167.10	0.00	1980	☐	☐	☐	☐	
20-027	W594995	167.10	168.10	0.00	2480	☐	☐	☐	☐	
20-027	W594996	168.10	169.15	0.00	2230	☐	☐	☐	☐	
20-027	W594997	169.15	169.65	0.14	2080	☐	☐	☐	☐	
20-027	W594998	169.65	171.15	0.00	2420	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-027	W594999	171.15	172.10	0.00	2850	☐	☐	☐	☐	
20-027	W595000	172.10	173.00	0.01	2730	☐	☐	☐	☐	
20-030	W595501	173.00	173.50	0.03	1160	☐	☐	☐	☐	
20-030	W595502	173.50	174.00	0.20	1330	☐	☐	☐	☐	
20-030	W595503	174.00	174.50	0.21	500	☐	☐	☐	☐	
20-030	W595504	174.00	174.50	0.29	630	☑	☐	☐	☐	
20-030	W595505	174.50	175.40	0.08	1370	☐	☐	☐	☐	
20-022	B700722	175.40	175.90	0.43	120	☐	☐	☐	☐	
20-030	W595506	175.90	176.40	0.39	470	☐	☐	☐	☐	
20-030	W595507	176.40	176.90	0.88	820	☐	☐	☐	☐	
20-030	W595508	176.90	178.30	0.00	2120	☐	☐	☐	☐	
20-030	W595509	178.30	179.55	0.00	2220	☐	☐	☐	☐	
20-030	W595510	179.55	180.05	0.04	280	☐	☐	☐	☐	
20-030	W595512	180.05	181.50	0.02	990	☐	☐	☐	☐	
20-030	W595513	181.50	183.00	0.01	750	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-030	W595514	183.00	184.00	0.02	1970	☐	☐	☐	☐	
20-030	W595515	184.00	185.10	0.02	2820	☐	☐	☐	☐	
20-022	B700723	185.10	185.60	1.63	310	☐	☐	☐	☐	
20-030	W595516	185.60	187.10	0.01	2380	☐	☐	☐	☐	
20-030	W595517	187.10	188.30	0.00	2730	☐	☐	☐	☐	
20-030	W595519	188.30	189.65	0.01	2990	☐	☐	☐	☐	
20-030	W595520	189.65	190.65	0.00	3670	☐	☐	☐	☐	
20-030	W595521	190.65	191.15	0.06	1150	☐	☐	☐	☐	
20-030	W595522	191.15	192.65	0.01	2110	☐	☐	☐	☐	
20-030	W595523	192.65	194.15	0.13	340	☐	☐	☐	☐	
20-030	W595524	194.15	195.30	0.00	2870	☐	☐	☐	☐	
20-030	W595525	195.30	196.45	0.00	1660	☐	☐	☐	☐	
20-030	W595526	196.45	196.95	0.01	2370	☐	☐	☐	☐	
20-030	W595527	196.45	196.95	0.01	2630	☐	☑	☐	☐	
20-030	W595528	196.95	197.95	0.01	480	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-030	W595529	197.95	199.40	0.01	4790	☐	☐	☐	☐	
20-030	W595530	199.40	200.50	0.07	1050	☐	☐	☐	☐	
20-030	W595531	200.50	201.60	0.02	670	☐	☐	☐	☐	
20-030	W595532	201.60	202.30	0.09	770	☐	☐	☐	☐	
20-030	W595533	202.30	203.30	0.03	920	☐	☐	☐	☐	
20-030	W595534	203.30	204.30	0.05	740	☐	☐	☐	☐	
20-030	W595536	204.30	205.50	0.01	2410	☐	☐	☐	☐	
20-030	W595537	205.50	206.00	0.01	2900	☐	☐	☐	☐	
20-030	W595538	206.00	207.15	0.00	1560	☐	☐	☐	☐	
20-030	W595539	207.15	207.65	0.14	230	☐	☐	☐	☐	
20-030	W595540	207.65	209.10	0.00	2380	☐	☐	☐	☐	
20-031	W595541	209.10	210.65	0.01	1870	☐	☐	☐	☐	
20-031	W595542	210.65	212.15	0.00	2340	☐	☐	☐	☐	
20-031	W595543	212.15	213.65	0.01	1920	☐	☐	☐	☐	
20-031	W595544	213.65	215.15	0.02	1960	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-031	W595545	215.15	216.00	0.00	950	☐	☐	☐	☐	
20-031	W595546	216.00	216.95	0.01	2640	☐	☐	☐	☐	
20-022	B700724	216.95	217.45	0.76	160	☐	☐	☐	☐	
20-031	W595548	217.45	218.95	0.03	1100	☐	☐	☐	☐	
20-031	W595549	218.95	220.00	0.00	1950	☐	☐	☐	☐	
20-031	W595550	220.00	220.80	0.02	1400	☐	☐	☐	☐	
20-031	W595551	220.80	221.30	0.09	860	☐	☐	☐	☐	
20-031	W595552	221.30	222.40	0.01	2220	☐	☐	☐	☐	
20-031	W595553	222.40	223.55	0.03	1510	☐	☐	☐	☐	
20-031	W595554	222.40	223.55	0.02	1530	☐	☑	☐	☐	
20-022	B700725	223.55	224.05	2.59	40	☐	☐	☐	☐	
20-031	W595555	224.05	225.55	0.01	1750	☐	☐	☐	☐	
20-031	W595556	225.55	227.05	0.01	2020	☐	☐	☐	☐	
20-031	W595557	227.05	228.00	0.02	710	☐	☐	☐	☐	
20-031	W595558	228.00	228.95	0.05	840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-022	B700726	228.95	229.70	0.83	290	☐	☐	☐	☐	
20-022	B700727	228.95	229.70	0.82	300	☐	☑	☐	☐	
20-031	W595559	229.70	230.20	0.04	160	☐	☐	☐	☐	
20-031	W595560	230.20	230.70	0.27	80	☐	☐	☐	☐	
20-031	W595561	230.20	230.70	0.20	60	☑	☐	☐	☐	
20-031	W595562	230.70	232.05	0.01	820	☐	☐	☐	☐	
20-031	W595563	232.05	233.55	0.01	3000	☐	☐	☐	☐	
20-022	B700728	233.55	234.05	0.31	160	☐	☐	☐	☐	
20-031	W595564	234.05	234.70	0.15	130	☐	☐	☐	☐	
20-031	W595565	234.70	235.70	0.03	1670	☐	☐	☐	☐	
20-031	W595566	235.70	236.50	0.02	1870	☐	☐	☐	☐	
20-031	W595567	236.50	237.45	0.01	1330	☐	☐	☐	☐	
20-022	B700729	237.45	237.95	2.42	410	☐	☐	☐	☐	
20-031	W595568	237.95	238.45	0.02	130	☐	☐	☐	☐	
20-031	W595569	238.45	238.95	0.18	140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-031	W595571	238.95	239.80	0.07	700	☐	☐	☐	☐	
20-031	W595572	239.80	240.70	0.07	1150	☐	☐	☐	☐	
20-031	W595573	240.70	241.90	0.01	1330	☐	☐	☐	☐	
20-022	B700730	241.90	242.40	0.54	160	☐	☐	☐	☐	
20-031	W595574	242.40	243.30	0.01	1850	☐	☐	☐	☐	
20-031	W595576	243.30	244.30	0.01	2390	☐	☐	☐	☐	
20-031	W595577	244.30	244.80	0.54	2580	☐	☐	☐	☐	
20-031	W595578	244.80	246.30	0.01	3030	☐	☐	☐	☐	
20-031	W595579	246.30	247.50	0.01	2260	☐	☐	☐	☐	
20-031	W595580	247.50	248.65	0.01	2610	☐	☐	☐	☐	
20-033	W595581	248.65	249.65	0.07	1660	☐	☐	☐	☐	
20-022	B700731	249.65	250.15	4.49	50	☐	☐	☐	☐	
20-033	W595582	250.15	251.65	0.01	2710	☐	☐	☐	☐	
20-033	W595583	251.65	253.00	0.01	2480	☐	☐	☐	☐	
20-033	W595584	253.00	253.50	0.47	360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-033	W595585	253.50	254.50	0.01	1810	☐	☐	☐	☐	
20-033	W595586	254.50	255.45	0.03	1460	☐	☐	☐	☐	
20-033	W595587	255.45	255.95	0.46	720	☐	☐	☐	☐	
20-033	W595589	255.95	257.45	0.01	2650	☐	☐	☐	☐	
20-033	W595590	257.45	258.55	0.05	1230	☐	☐	☐	☐	
20-033	W595591	258.55	259.40	0.03	2000	☐	☐	☐	☐	
20-033	W595592	259.40	260.40	0.04	1240	☐	☐	☐	☐	
20-022	B700732	260.40	260.90	2.09	50	☐	☐	☐	☐	
20-033	W595594	260.90	262.40	0.09	1910	☐	☐	☐	☐	
20-033	W595595	266.40	267.90	0.01	2260	☐	☐	☐	☐	
20-033	W595596	267.90	268.40	0.11	350	☐	☐	☐	☐	
20-033	W595597	268.40	269.90	0.02	3060	☐	☐	☐	☐	
20-033	W595598	276.10	277.00	0.01	2500	☐	☐	☐	☐	
20-033	W595599	277.00	277.60	0.30	590	☐	☐	☐	☐	
20-033	W595600	277.00	277.60	3.03	660	☑	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-033	W595601	277.60	279.10	0.02	2650	☐	☐	☐	☐	
20-033	W595602	279.10	280.10	0.02	2330	☐	☐	☐	☐	
20-033	W595603	280.10	281.10	0.02	2470	☐	☐	☐	☐	
20-022	B700733	281.10	281.60	1.86	100	☐	☐	☐	☐	
20-033	W595604	281.60	283.00	0.02	3380	☐	☐	☐	☐	
20-033	W595605	283.00	283.50	1.18	730	☐	☐	☐	☐	
20-033	W595606	283.50	284.00	0.11	340	☐	☐	☐	☐	
20-033	W595607	283.50	284.00	0.11	360	☐	☑	☐	☐	
20-033	W595608	284.00	284.50	0.05	2220	☐	☐	☐	☐	
20-033	W595609	291.80	293.30	0.02	2430	☐	☐	☐	☐	
20-033	W595610	293.30	293.80	0.28	1200	☐	☐	☐	☐	
20-033	W595611	293.80	294.80	0.03	1900	☐	☐	☐	☐	
20-033	W595612	294.80	295.30	0.02	1880	☐	☐	☐	☐	
20-033	W595613	295.30	296.80	0.02	2410	☐	☐	☐	☐	
20-033	W595615	296.80	297.30	0.02	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-033	W595616	297.30	297.80	0.37	220	☐	☐	☐	☐	
20-033	W595617	297.80	298.50	0.10	2520	☐	☐	☐	☐	
20-033	W595618	298.50	299.00	0.06	2120	☐	☐	☐	☐	
20-033	W595619	299.00	299.85	0.01	1900	☐	☐	☐	☐	
20-033	W595620	299.85	301.35	0.01	3970	☐	☐	☐	☐	
20-034	W595621	301.35	301.85	0.12	1400	☐	☐	☐	☐	
20-034	W595622	301.85	303.35	0.02	3020	☐	☐	☐	☐	
20-034	W595623	303.35	304.70	0.01	3900	☐	☐	☐	☐	
20-034	W595624	304.70	306.20	0.01	3020	☐	☐	☐	☐	
20-022	B700735	306.20	306.70	1.27	340	☐	☐	☐	☐	
20-034	W595625	306.70	307.50	0.10	1220	☐	☐	☐	☐	
20-034	W595626	306.70	307.50	0.09	1130	☐	☑	☐	☐	
20-034	W595627	307.50	308.00	0.19	290	☐	☐	☐	☐	
20-034	W595628	308.00	309.45	0.01	2600	☐	☐	☐	☐	
20-034	W595629	309.45	310.95	0.01	2340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-034	W595630	310.95	311.45	0.00	1710	☐	☐	☐	☐	
20-034	W595631	311.45	312.95	0.01	2340	☐	☐	☐	☐	
20-034	W595633	312.95	314.00	0.00	2700	☐	☐	☐	☐	
20-034	W595634	314.00	314.70	0.01	2600	☐	☐	☐	☐	
20-034	W595635	314.70	316.20	0.00	2560	☐	☐	☐	☐	
20-034	W595636	316.20	316.70	0.72	190	☐	☐	☐	☐	
20-034	W595637	316.70	317.40	0.01	2590	☐	☐	☐	☐	
20-034	W595638	317.40	317.90	0.14	760	☐	☐	☐	☐	
20-034	W595639	317.40	317.90	0.17	1240	☑	☐	☐	☐	
20-034	W595640	317.90	319.20	0.01	1880	☐	☐	☐	☐	
20-034	W595641	319.20	320.04	0.90	400	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
60.10	80.41	FT	42	--	NUL	1	Fault zone after we get into bedrock after extensive zone of OVB. Predominantly rubble - 60%, competent core - 35%, Gouge - 5%.			
77.86	79.06	DY	37	--	NUL	1	Dyke? That is a continuation of the fault above. Dyke is fine grained with phenocrysts (white). Dyke is dark brown/ to burnt orange.			
84.90	85.60	FT	42	75	NUL	1	Small rubble zone with some competent core as well - 30%.			
88.87	92.10	FT	42	75	NUL	1	Small fault zone. Rubble - 60%, Gouge - 20% and Competent core - 20%. Sharp contact between coarse grained granodiorite and fine grained granodiorite - 40 degrees tca.			
95.85	96.06	VT	37	75	NUL	3	3 small pyrite with stringers with calcite.			
								Py	0.5	BL
96.93	96.96	VT	37	50	NUL	1	Small sulphide veinlet with pyrite, galena and black jack sphalerite. Pyrite - 3%, Galena - 1%, and Sphalerite - 0.5%.			
								Sp	0.5	BL
								Py	3	BL
								Gn	1	BL
98.84	99.41	DY	37	75	NUL	1	Foliated dyke.			
99.41	101.91	DY	37	65	NUL	1	QFP dyke.			
101.91	102.24	FO	49	65	NUL	1	Foliated dyke			
103.28	104.00	FT	42	30	NUL	1	Small fault zone with rubble and gouge along fracture surfaces (almost a breccia).			
112.07	114.00	FT	42	60	NUL	1	Small fault with gouge along fracture surfaces.			
115.71	115.81	DY	37	50	NUL	1	QFP? Dyke - very fine grained and grey with small phenocrysts.			
117.10	119.07	FO	49	30	NUL	1	Foliated dyke			
118.80	119.05	FO	49	38	NUL	10	folliated dyke with quartz augens			
122.90	122.95	FO	49	60	NUL	10	folliated dyke near to dyke wall			
122.95	123.90	FO	49	10	NUL	10	folliated dyke with qts augens			
128.50	128.90	FT	42	40	NUL	1	faulted dyke material, fine rubble and gouge			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
129.00	129.01	FR	5	65	NUL	1	contact between alteration types in dyke			
129.01	129.21	DY	37	55	NUL	1	qfp dyke, footwall contact withy folliated dyke. Folliations almost at perpendicular angle to contact. Folliations at 35 deg tca			
129.21	129.45	FO	49	35	NUL	1	folliated qfp dyke, hanging wall contacting with contact non-folliated qfp dyke above. Folliations almost at perpendicular angle to contact with non-folliated dyke, which is at 55 deg tca			
146.50	146.60	FT	42	65	NUL	1	gougy fault interval			
150.20	150.21	VT	37	48	NUL	1	small veinlet with qtz py sphal gal			
156.00	156.10	SH	81	40	NUL	1	shear/gouge/breccia with warped broken py vein			
156.50	156.52	SH	81	25	NUL	1	small low angle weakly mineralized shear			
157.52	157.66	SH	81	10	NUL	1	Low angle shear with a small amount of gouge infilling - 2 mm wide.			
160.14	160.19	GO	34	40	NUL	1	Small gouge zone with a small concentation of pyrite inside the gouge.			
								Py	1	DI
160.70	162.55	BX	34	60	NUL	1	Breccia zone with some competent core inbetween. There is a local concentration of pyrite in the gouge - up to 1%.			
								Py	1	DI
164.18	164.32	SH	81	20	NUL	1	Low angle shear.			
165.34	165.38	VT	37	75	NUL	1	Sphalerite vein with some minor pyrite and galena at the lower contact of the vein there is grey quartz veinlet			
								Gn	0.5	BL
								Py	0.5	BL
								Sp	3	BL
169.21	169.23	ST		80	NUL	2	A pyrite stringer and a sphalerite stringer.			
								Sp	1	BL
								Py	0.5	BL
169.48	169.50	VT	37	65	NUL	1	1 cm wide quartz veinlet and beside it is a galena and sphalerite veinlet.			
								Gn	3	BL
								Sp	1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
173.17	173.19	ST		75	NUL	1	Black jack sphalerite wi th pyrite stringer. 2 - 4 mm wide.			
								Py	1	BL
								Sp	1.5	BL
173.73	173.85	ST		50	NUL	1	Stringer of pyrite and sphalerite with milky white quartz.			
								Py	0.5	BL
								Sp	0.5	BL
174.00	174.28	ST		85	NUL	5	Zone of sulphide stringers - mostly pyrite and some with pyrite and sphalerite.			
								Sp	0.5	BL
								Py	1.5	BL
175.60	175.66	VN	37	70	NUL	1	Sulphide and quartz vein. Quartz is milky white. Sulphides are mostly pyrite with some trace sphalerite and galena.			
								Py	5	BL
								Gn	0.5	BL
								Sp	0.5	BL
176.42	176.45	VT	37	80	NUL	1	Pyrite veinlet with some trace galena.			
								Gn	0.1	BL
								Py	1.5	BL
185.31	185.41	VN	37	40	NUL	1	Sulphide vein - pyrite, sphalerite and galena - vein is broken up due to placement in core box.			
								Gn	1	BL
								Sp	3	BL
								Py	3	BL
190.88	191.00	VT	37	50	NUL	2	Two sulphide/ quartz veins. 7 mm - 1 cm wide. First one is predominantly galena with some pyrite and sphalerite. The second one is predominantly sphalerite with some pyrite.			
								Gn	0.5	BL
								Sp	0.5	BL
								Py	0.3	BL
191.89	197.56	FT	42	-	NUL	1	Fault zone with competent core inbetween rubble and breccia zones. Competent core - 35%, breccia - 20%, and rubble - 45%. At 196.63 to 196.65 m small suphide vein of pyrite with milky white quartz.			
								Py	0.1	BL
201.70	202.26	VN	37	-	NUL	3	Small sulphide veining - pyrite. As well pyrite is disseminated between veining.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	3	BL
202.81	202.86	VT	37	45	NUL	1	8 mm wide grey cherty looking veinlet.			
202.94	202.95	ST		75	NUL	1	Quartz with suphides stringer, 4 mm wide. Pyrite and sphalerite.			
								Py	0.3	BL
								Sp	0.3	BL
205.70	205.75	VT	37	60	NUL	2	Quartz / pyrite vein. 3 mm wide to 1 cm wide.			
								Py	0.5	BL
207.40	207.44	VT	37	80	NUL	1	Pyrite and sphalerite veinlet.			
								Py	4	BL
								Sp	1	BL
209.14	209.48	VN	37	80	NUL	1	Quartz vein with sulphides. Milky white with grey quartz. Pyrite, sphalerite and trace galena.			
								Sp	1	BL
								Gn	0.1	BL
								Py	2	BL
213.98	214.42	BX	34	70	NUL	1	Breccia zone with clasts floating in a gouge matrix.			
217.00	2217.41	VT	37	-	NUL	6	Small sulphide veing made up of pyrite, sphalerite, galena and chalcopyrite.			
								Py	5	BL
								Sp	1	BL
								Gn	0.5	BL
								Cp	0.1	BL
221.00	221.06	VT	37	70	NUL	1	Quartz veinlet with sulphides. Milky white and grey quartz. Pyrite, galena and sphalerite.			
								Gn	0.1	BL
								Sp	0.1	BL
								Py	1.5	BL
223.74	223.84	VN	37	80	NUL	1	Sulphide and quartz vein. There is a band of pyrite, chalcopyrite, then pyrite and then milky white quartz at the end.			
								Py	7	BL
								Cp	2	BL
230.43	230.45	SH	81	20	NUL	1	Low angled shear			
230.46	230.48	VT	37	60	NUL	1	Pyrite with galena sulphide vein with a low angled shear going through it.			
								Gn	0.5	BL
								Py	4	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
231.07	231.17	BX	34	50	NUL	1	Small 3 cm gouge zone with fracturing after it.			
233.84	233.92	VN	37	90	NUL	1	Quartz and pyrite vein. Grey quartz.			
								Py	2.5	BL
234.43	234.45	VT	37	80	NUL	1	Quartz vein - grey with a large 2 cm wide chalcopyrite.			
								Cp	1	BL
237.49	237.85	VN	37	40	NUL	2	Quartz and sulphide veining (broken up) could potentially be one large vein. Pyrite, black jake sphalerite, galena and chalcopyrite. Pyrite is disseminated above and below the vein.			
								Py	10	BL
								Cp	0.1	BL
								Gn	0.3	BL
								Sp	4	BL
238.58	238.69	VN	37	80	NUL	1	Quartz veining with mineralization. Grey glassy to cherty looking quartz with local white. Pyrite and sphalerite are occurring seperately and are blebby in nature.			
								Sp	2	BL
								Py	3	BL
239.46	240.70	BX	34	-	NUL	1	Zone of weak brecciation with gouge along frature surfaces.			
240.70	242.08	BX	34	-	NUL	1	Brecciation of dyke ending in a quartz/ sulphide vein.			
242.08	242.28	VN	37	90	NUL	1	Quartz / pyrite veining with gouge at the upper and lower contacts. Quartz veining is multi-generational. Pyrite is blebby.			
								Py	3	BL
243.05	243.23	ST		70	NUL	3	3 stringers. First one is quartz / pyrite along the selvage. Second one is pyrite and hematite. The thrid one is grey glassy quartz with pyrite.			
								Py	0.3	BL
243.94	244.21	DY	37	90	NUL	1	Apalite dyke? Fine grained with sharp upper and lower contacts.			
244.52	244.55	VT	37	60	NUL	1	Quartz/ sulphide vein. Quartz is light grey to white, multi-generational. Galena, sphalerite and pyrite are occurring as coarse grained blebs.			
								Py	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	0.5	BL
								Gn	1	BL
245.56	245.57	VT	37	60	NUL	1	1 mm wide pyrite stringer.			
								Py	0.5	BL
249.05	249.06	VN	37	85	NUL	1	1 cm wide milky white quartz vein with bleby pyrite.			
								Py	1.5	BL
249.82	249.94	VT	37	90	NUL	1	Quartz and sulphide veining. Quartz is light glassy grey as well as white, multi-generational. There are vugs in this vein in the quartz with re-crystallized quartz inside. There is just bleby pyrite in this vein.			
								Py	10	BL
249.94	249.96	GO	34	90	NUL	1	Small zone of gouge after quartz/ sulphide vein.			
								Py	0.3	DI
253.14	253.30	VN	37	70	NUL	5	Zone of mixed sulphide stringers and quartz stringers. There is also a mixed vein of quartz, pyrite and sphalerite.			
								Gn	0.1	BL
								Sp	0.5	BL
								Py	2.5	BL
255.69	255.71	VN	37	80	NUL	1	Quartz vein with pyrite, sphalerite and galena. All sulphides are coarse grained and bleby. Quartz is light grey and white - multigenerational.			
								Gn	0.1	BL
								Py	5	BL
								Sp	1	BL
257.63	258.50	VT	37	70	NUL	7	Zone of quartz veinlets as well as sulphide veinlets. 1 mm up to 2 cm wide. Pyrite is the only sulphide.			
								Py	0.5	BL
260.48	260.72	VN	37	85	NUL	1	Quartz / sulphide vein. Light grey and white quartz - multi-generational with coarse grained pyrite, sphalerite and galena.			
								Gn	0.1	BL
								Sp	2	BL
								Py	6	BL
266.70	266.84	ST		-	NUL	4	Pyrite stringers - medium to coarse grained in a line together.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.5	BL
267.65	267.81	DY	37	70	NUL	1	Apalite dyke? Very fine grained.			
268.12	268.23	ST		-	NUL	3	3 pyrite stringers. 2 are at 80 - 90 degrees tca and the one in the middle conects the other two.			
								Py	0.5	BL
277.23	277.48	ST		-	NUL	4	Zone of quartz veining with sulphides as well as strings of suphides. Pyrite and sphalerite make up the sulphides.			
								Py	1	BL
								Sp	0.5	BL
281.15	281.51	VN	37	85	NUL	4	Zone of quartz veining with mineralization. 4 different veins. Veins range in size from 1 cm up to 7 cm wide. Quartz is white to light grey. The dominant sulphide is pyrite but there is some sphalerite, galena and chalcopyrite.			
								Cp	0.1	BL
								Gn	0.1	BL
								Sp	1	BL
								Py	10	BL
283.21	283.26	VN	37	45	NUL	1	Quartz / sulphide vein. Quartz is light grey to white. Sulphides are sphalerite, pyrite and galena.			
								Gn	0.3	BL
								Py	1.5	BL
								Sp	2	BL
283.69	283.70	VN	37	90	NUL	1	Quartz and pyrite veinlet. White and grey quartz with coarse grained - bleby pyrite.			
								Py	1	BL
284.18	284.19	VT	37	90	NUL	1	Pyrite veinlet.			
								Py	5	BL
293.44	293.70	BX	34	40	NUL	1	Weakly brecciated with disseminated pyrite.			
								Py	2	DI
295.08	295.18	VT	37	30	NUL	1	Shallowly dipping quartz vein with pyrite. 0.5 cm wide with light glassy grey and white quartz and pyrite is near the quartz vein but not in it.			
								Py	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
297.37	297.42	VT	37	50	NUL	1	1.5 cm wide quartz / sulphide vein. Milky white and grey quartz with pyrite, chalcopyrite, arsenopyrite, galena and spalerite.			
								Py	1.5	BL
								Sp	0.5	BL
								Cp	0.8	BL
								Gn	0.3	BL
								As	0.5	BL
301.53	301.63	ST		35	NUL	2	1 quartz stringer - 1 mm wide and one veinlet that is 6 mm wide and is quartz/ sulphide vein. The first one is glassy grey with white quartz and trace pyrite. The second one is milky white to grey quartz with pyrite, galena and sphalerite.			
								Py	0.5	BL
								Gn	0.3	BL
								Sp	0.5	BL
306.30	306.44	VN	37	90	NUL	1	Quartz / sulphide vein. White to grey quartz with abundant blebby pyrite. Pyrite is occurring disseminated in a halo around this vein.			
								Py	4	BL
306.36	306.75	BX	34	90	NUL	1	Breccia zone after sulphide veining. There are two zones of gouge - 7 mm to 4 cm wide. We also see disseminated pyrite in this zone occurring as fresh, euhedral and medium grained.			
								Py	0.3	DI
307.11	307.14	VT	37	-	NUL	1	Irregular zone of quartz/ and sulphide veining. Quartz is light grey to white in color. Pyrite is fresh and blebby.			
								Py	0.5	BL
307.75	307.80	VT	37	-	NUL	1	Broken up quartz/ sulphide vein. The quartz is light grey in color with pyrite - blebby.			
								Py	2.5	BL
311.20	311.21	VT	37	90	NUL	1	Quartz veintlet with pyrite. Quartz is white and pyrite is blebby. We also see brecciation near this vein and gouge along the fracture surfaces.			
								Py	0.5	BL
312.28	312.32	SH	81	50	NUL	1	Small shear with ~ 6 mm of gouge along the fracture surface.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
316.45	316.50	VT	37	90	NUL	1	Quartz and sulphide veining. Milky white and grey quartz with blebby pyrite and sphalerite and trace amounts of chalcopyrite.			
								Sp	0.1	BL
								Py	5	BL
								Cp	0.1	BL
317.66	317.68	VT	37	80	NUL	1	Quartz veinlets with pyrite and galena as well as some chalcopyrite. Quartz is white to light grey in color. Both veins are 1 cm wide and have fresh blebby sulphides.			
								Py	2	BL
								Gn	1.5	BL
								Cp	0.1	BL
319.44	319.48	VN	37	80	NUL	2	Quartz and pyrite vein. 4 cm wide with white quartz and pyrite in the center of the vein.			
								Py	3	BL

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		383203	6890463	1297	302.06

ZONE: Exploration

SECTION:

HOLE: KL -20-480

CLAIM: YD09220

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 6.09m, Out

Drilling Dates: Sep 18 - Sep 22, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Pearl vein system extension

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.42	1.42	CAS
1.42	12.5	11.08	OVB
12.5	22.48	9.98	GRD
22.48	26.91	4.43	GRD
26.91	30.57	3.66	GRD
30.57	37.36	6.79	BXA
37.36	40.22	2.86	QFP
40.22	49.5	9.28	QFP
49.5	58.61	9.11	GRD
58.61	66.72	8.11	GRD
66.72	72.08	5.36	GRD
72.08	81.96	9.88	GRD
81.96	90.3	8.34	GRD
90.3	97.01	6.71	GRD
97.01	97.73	0.72	GRD
97.73	100.22	2.49	BXA

SAMPLES	
Numbers:	B700510 to B700516, B700736 to B700744, W595642 to W595780
Total:	155
Batch:	011, 022, 034, 036, 037, 038, 041
Certificates:	WH20224721, WH20224759, WH20224788, WH20224801, WH20224814, WH20226270, WH20238418

COMMENTS

Shut down early (10m early) due to not having proper drill products. The core was competent but in the zones of clay the drill was torqued out and unable to go further.
Handheld GPS accuracy of 1.7m

100.22	134.39	34.17	GRD
134.39	140.98	6.59	BXA
140.98	151.52	10.54	GRD
151.52	151.77	0.25	VEN
151.77	152.1	0.33	GRD
152.1	156.19	4.09	QFP
156.19	162.41	6.22	GRD
162.41	162.54	0.13	VEN
162.54	164.24	1.7	GRD
164.24	165.11	0.87	QFP
165.11	195.7	30.59	GRD
195.7	196.73	1.03	BXA
196.73	204.85	8.12	GRD
204.85	206.38	1.53	BXA
206.38	209.35	2.97	GRD
209.35	209.58	0.23	VEN
209.58	229.3	19.72	GRD
229.3	234.53	5.23	GRD
234.53	242.35	7.82	GRD
242.35	242.63	0.28	VEN
242.63	244.69	2.06	GRD
244.69	247.66	2.97	BXA
247.66	302.06	54.4	GRD

Box Log

KL -20-480

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.42	9
2	9	12.4
3	12.4	15.12
4	15.12	17.17
5	17.17	19.87
6	19.87	22.8
7	22.8	25.54
8	25.54	28.21
9	28.21	30.7
10	30.7	33.62
11	33.62	36.58
12	36.58	39.62
13	39.62	42.94
14	42.94	45.93
15	45.93	50.17
16	50.17	54.22
17	54.22	58.01
18	58.01	61.96
19	61.96	66.66
20	66.66	70.4
21	70.4	74.06
22	74.06	77.75
23	77.75	81.38
24	81.38	85.01
25	85.01	89.2
26	89.2	92.84
27	92.84	96.63
28	96.63	100.58
29	100.58	104.96
30	104.96	108.9
31	108.9	113.15
32	113.15	117.4
33	117.4	121.44
34	121.44	125.54
35	125.54	129.71
36	129.71	133.94
37	133.94	138.17
38	138.17	142.04
39	142.04	146.3
40	146.3	150.34
41	150.34	154.23
42	154.23	158.22
43	158.22	162.41
44	162.41	166.48
45	166.48	170.69
46	170.69	174.55
47	174.55	178.86
48	178.86	183.12
49	183.12	187.44
50	187.44	191.54
51	191.54	195.33
52	195.33	199.34
53	199.34	203.54
54	203.54	207.26
55	207.26	211.18
56	211.18	215.01
57	215.01	219.11
58	219.11	223.04
59	223.04	226.8
60	226.8	230.47
61	230.47	234.05
62	234.05	237.84
63	237.84	242.05
64	242.05	245.88
65	245.88	249.85
66	249.85	254.09
67	254.09	258.5
68	258.5	262.58
69	262.58	266.98
70	266.98	271.25
71	271.25	275.57
72	275.57	279.81
73	279.81	284.26
74	284.26	287.97
75	287.97	292.18
76	292.18	296.57
77	296.57	300.31
78	300.31	302.06

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-480									
	39.33	28	HTW	QFP	2474.1	1483.3	2.3	2.5	
	47.72	12	NTW	QFP	716.6	439.6	2.11	2.6	
	135.23	12	NTW	BXA	1175.1	789.8	3.46	3.1	vein with approximately 25% sulphides (galena, pyrite, sphalerite and arsenopyrite)
	143.02	9	NTW	GRD	673.7	419.4	2.65	2.7	clay altered granodiorite, minor chlorite alteration
	152.4	24	NTW	QFP	1554.8	966.7	2.29	2.6	silicified qfp dyke
	162.41	16.5	NTW	GRD	1406.5	946.5	3.01	3.1	Small quartz vein with approximately 20-25% sulphides
	162.41	16.5	NTW	VEN	1406.5	946.5	3.01	3.1	Small quartz vein with approximately 20-25% sulphides
	168.23	18	NTW	GRD	1262.6	791.4	2.48	2.7	
	205.03	12.85	NTW	BXA	968.8	685.9	2.67	3.4	mineralized quartz vein with ~ 65% sulphides
	205.18	16.5	NTW	BXA	1390.4	960.1	2.98	3.2	mineralized quartz vein with approximately 20% sulphides
	208.13	11.75	NTW	GRD	739.5	468.1	2.23	2.7	clay altered granodiorite
	262.33	21.5	NTW	GRD	1369.1	851.7	2.25	2.7	medium grained granodiorite
	294.26	14	NTW	GRD	911.1	564.6	2.3	2.6	granodiorite with some clay alteration

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
######	######	0.00	GRD	CG								
						LT	GY				Py	0.1
0.00	1.42	1.42	CAS	--	Top of hole - no core recovered.							
1.42	12.50	11.08	OVB	CG	OVB - a mix of competent core - coarse grained granodiorite as well as residual soil. The soil is medium brown to rusty orange in coloration. The competent core is weakly potassic altered as well as weak chloritic alteration. Locally the core is stained black from MnOx.							
						MD	BR		MNO	2I		
						MD	OR		POT	2I		
						LT	BR	PH	LIM	4I		
						LT	WH					
						LT	PK					
						DK	OR		CHL	2I		
						DK	BL					
12.50	20.13	7.63	FLT	CG	Same as general lithology							
20.13	21.33	1.20	FLT	CG	Start of argillic (clay) alteration.							
						LT	YW		CLY	4I		
						LT	OR					
21.33	21.44	0.11	VEN	CG	Quartz / sulphide vein. Quartz is light glassy grey to white with small mm vugs. Pyrite is the only sulphide occurring in this vein and is occurring disseminated above and below this vein.							
						LT	GY				Py	6
						LT	WH					
21.44	22.31	0.87	FLT	CG	Continuation of argillic alteration.							
									CLY	4I		
22.31	22.35	0.04	VEN	CG	Vein of fresh and weathered galena.							
											Gn	8
22.35	22.48	0.13	FLT	CG	End of fault							
22.48	24.03	1.55	GRD	CG	Strong argillic clay alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
24.03	24.04	0.01	VEN	CG	Quartz / sulphide vein. White and light grey quartz with blebby pyrite, galena and sphalerite.							
											Py	1.5
											Gn	0.8
											Sp	0.5
24.04	26.91	2.87	GRD	CG	Strong clay alteration.							
26.91	27.13	0.22	FLT	CG	Same as general lithology.							
27.13	27.26	0.13	FLT	FG	Gouge zone with some broken bits of core inside the gouge.							
27.26	29.84	2.58	FLT	CG	Same as general lithology.							
29.84	30.57	0.73	FLT	CG	Zone of gouge. The first 42 cm of gouge is "coated" in medium grained, fresh, euhedral pyrite.							
											Py	65
30.57	31.16	0.59	QFP	CG	Same as general lithology. Fairly well brecciated section. With gouge - 20%.							
31.16	31.27	0.11	VEN	CG	Quartz and sulphide vein. Light glassy grey quartz with fracturing. Fine to medium grained, fresh, euhedral pyrite occurring in gouge.							
											Py	5
31.27	35.72	4.45	QFP	CG	Same as general lithology.							
35.72	36.24	0.52	QFP	CG	Pervsively limonite altered.							
									LIM	5I		
36.24	36.88	0.64	QFP	CG	Same as general lithology.							
36.88	37.36	0.48	QFP	CG	Pervasively limonite altered.							
									LIM	5I		
37.36	40.22	2.86	QFP	CG	A different dyke than above? It doesn't have as many phenocrysts as the above one. The dyke is rusty orange to dark purple in color. Pervasively hematite altered with some limonite alteration. At the upper contact there is a part of the dyke that is unaltered and it is light grey in color. At the lower contact there is gouge (9 cm wide).							
						MD	OR		CLY	2I		
						DK	PU	PO	HEM	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	OR		LIM	2I		
40.22	49.50	9.28	QFP	CG	A dyke that is similar to the first dyke in this hole (30.57-37.36 m). Light grey in color where the dyke isn't prevasively limonite altered. There are glassy grey quartz phenocrysts as well as clay altered white phenocrysts. The upper portion of this dyke is brecciated till 43.67 m. This unit is pervasively limonite altered till 47.0 m and then becomes weaker and more patchy. The dyke is locally foliated at the lower contact (48.92 - 49.50 m).							
						LT	GY					
						LT	BF					
						DK	OR	PO	LIM	4I		
						DK	BR					
49.50	58.61	9.11	GRD	CG	Variably altered granodiorite. Throughout most of this interval we see patchy to locally pervasive limonite alteration coming in along fracture surfaces. In areas of less limonite alteration we see strong argillic (clay) alteration that is light green/ light blue to light yellow and orange. There is also zones with moderate chloritic alteration with moderate potassic alteration as well. This unit is broken and rubble throughout most of this interval. There is one quartz / sulphide vein in this interval at 55.92 - 55.93 m. Vein is glassy grey quartz with bleby pyrite (fresh) as well as oxidized galena as well as fresh locally.							
						MD	OR		CLY	2I	Gn	0.01
						MD	GN		POT	2I		
						LT	OR	PH	LIM	4I	Py	0.01
						LT	PK					
						LT	GN					
						LT	BL					
						DK	OR		CHL	2I		
58.61	66.72	8.11	GRD	CG	Faulted granodiorite. Competent core - 15%, Rubble -65%, Gouge - 20%. This zone is patchy limonite alterated to prevasively limonite alterered locally. It is also locally pervasively hematite altered giving a dark purple coloration. There is one local dark grey clast that is mineralized with pyrite and galena. In areas of less limonite alteration we see dark green chlorite alteration (moderate) and moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	OR		HEM	1I		
						MD	GN		CHL	2I		
						MD	PK		POT	2I		
						DK	OR	PH	LIM	4I		
66.72	72.08	5.36	GRD	CG	Variably altered granodiorite. Most of this unit is either pervasively limonite altered or has patchy limonite alteration. In areas of less oxidization we see strong argillic (clay) alteration that is light green/ blue in color with areas of weak potassic alteration. The lower contact is faulted.							
						MD	OR	PH	LIM	4I		
						MD	GY		POT	1I		
						LT	WH					
						LT	BL					
						LT	GN					
						DK	OR		CLY	3I		
72.08	81.96	9.88	GRD	CG	Faulted and variably altered granodiorite. There are zones of strong argillic (clay) alteration - light blue/ green in color as well as white. In areas with this argillic alteration we also see moderate potassic alteration. We also see moderate potassic alteration in zones with moderate to strong chlorite alteration. This unit is very rubbled with minor gouge. Rubble - 65%, Competent core - 30% and Gouge - 5%. Locally we see strong pervasive hematite alteration but overall is trace. There are a few quartz/ sulphide veins occurring in this interval at 77.97 - 78.00, 78.07 - 78.12 m. Glassy grey and white quartz with bleby pyrite. Theres a low angle shear through the first one at 30 degrees tca truncating the vein. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue there is also moderate potassic alteration in these zones. There is also zones of dark green chloritic alteration with moderate potassic. Locally there is limonite along fracture surfaces.							
						MD	GN		CHL	3I		
						MD	PK		POT	3I		
						MD	OR					
						LT	GN	PH	CLY	4I	Py	0.1
						LT	WH		LIM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
81.96	82.25	0.29	GRD	CG	Zone of strong clay alteration that gets stronger as we go down interval.							
82.25	83.00	0.75	GRD	CG	Zone with sulphide/ quartz veining hosted in granodiorite. Grey / white quartz veining with sulphides - pyrite and sphalerite. There are 6 different veins that range in size from 0.5 cm to 8 cm wide. We also see a little bit of gouge in this interval - 5 cm wide. We also see pyrtie disseminated between these veins.							
											Py	1.5
											Sp	0.1
83.00	83.94	0.94	GRD	CG	Zone of strong clay alteration that is light green / light blue in color. There is a local zone of strong potassic alteration as well we see weak potassic in the rest of the unit. There is a quartz / pyrite veinlet at 83.52 - 83.53 m that is shallowly dipping.							
83.94	84.60	0.66	GRD	CG	Zone of strong chlorite alteration with moderate potassic alteration. Sharp upper and lower contacts.							
84.60	87.12	2.52	GRD	CG	Zone of strong clay alteration - that is white ranging to light blue/ green in color. There is also moderate to locally strong potassic alteration. Sharp lower contact. In this unit we see sheeted quartz stringers (3) in 10 cm.							
87.12	90.30	3.18	GRD	CG	Dark green chloritic alteration with moderate potassic alteration.							
90.30	92.60	2.30	FLT	CG	Zone of strong chlorite alteration with moderate potassic alteration. Sharp lower contact.							
92.60	97.01	4.41	FLT	CG	Zone of strong clay atleration that is ranging from white to light blue/ green with weak to moderate potassic alteration.							
97.01	97.73	0.72	GRD	CG	Small zone of competent core between fault and breccia zone. We have strong argillic alteration that is light blue in color weith moderate to strong potassic alteration.							
						MD	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH	PH	CLY	4I		
						LT	BL		POT	3I		
						LT	GY					
97.73	100.22	2.49	BXA	CG	Zone of brecciated altered granodiorite. Most of the interval is gouge rich with clasts floating in the gouge at the upper contact its more rubbly till 98.44 m. There is trace pyrite disseminated throughout this interval.							
						LT	GY	PH			Py	0.1
						LT	GN					
100.22	103.02	2.80	GRD	CG	Mixed zone of alteration. Throughout we see strong clay alteration that is light green/ yellow (predominantly) to white as well as light blue/ green. In the zones with light blue/ green argillic alteration we see moderate to strong potassic alteration - this is occurrring at the lower contact of this interval.							
103.02	111.21	8.19	GRD	CG	Zone of strong argillic alteration light yellow/ green in color. Alteration is strong in this interval all that is left is light yellow/ green clay and grey quartz. This interval has local gogue zones that are 1 - 1.5 cm wide. We also see local dark green chlorite coming in along fracture surfaces acting as a halo. This interval has quartz veining as well as sulphide veining. Dominantly the sulphides are pyrite but locally we have sphalerite as well. Sharp lower contact.							
											Py	0.1
111.21	111.82	0.61	GRD	CG	Zone of light blue argillic (clay) alteration with moderate potassic alteration as well as patchy chlorite alteration. Sharp lower contact.							
111.82	118.41	6.59	GRD	CG	Mixed zone of alteration with dark green chloritic alteration with moderate potassic and strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration. Throughout this interval we see fracturing infilled with calcite alteration. We also we light grey to white quartz stringers to veinlets in this interval.							
118.41	118.58	0.17	VEN	CG	Milky white and grey quartz with sulphide veining with local gouge - 3 cm wide. Pyrite is the only sulphide in this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	3
118.58	120.97	2.39	GRD	CG	Zone of strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration. Local breccia zone with sulphide veining at 120.33 - 120.54 m - pyrite is the only sulphide. The lower contact is gradational with white clay (argillic) grading into the strongly chloritic alteration.							
											Py	0.5
120.97	123.27	2.30	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration.							
123.27	129.35	6.08	GRD	CG	Mixed zone of alteration with dark green chloritic alteration with moderate potassic and strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration.There is a zone of quartz veining with sulphides at 127 - 127.09 m. We have pyrite and galena.							
											Py	0.1
											Gn	0.1
129.35	131.80	2.45	BXA	CG	Zone of brecciation with gouge along the fractures and clasts locally floating in gouge. In this interval we see strong argillic (clay) alteration that is light green / yellow in color. There is a quartz/ sulphide vein at 130.37 - 130.40. The vein is light grey and white with pyrite, galena and sphalerite.							
											Py	0.1
											Gn	0.1
											Sp	0.1
131.80	134.39	2.59	GRD	CG	Strong argillic (clay) alteration that is white to light blue/ green in color as well we see moderate potassic alteration. Quartz veinlets are occurring in this interval.							
134.39	135.10	0.71	BXA	CG	Same as general lithology							
135.10	135.39	0.29	VEN	CG	Sulphide veins hosted in granodiorite. The first one is 7 cm wide and the second one is spread throughout. The veins contain pyrite, galena, sphalerite, arsenopyrite and chalcopyrite. The second vein is in a re-lithified breccia section.							
											Py	1
											Gn	3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Sp	3
											As	1.5
											Cp	0.1
135.39	137.16	1.77	BXA	CG	Same as general lith.							
137.16	137.21	0.05	BXA	CG	Small section of gouge that has abundant pyrite mixed in the gouge.							
											Py	10
137.21	140.98	3.77	BXA	CG	Same as general lith							
140.98	145.36	4.38	GRD	CG	Same as general lithology mixed zones of strong argillic and zones of chloritic.							
145.36	147.95	2.59	GRD	CG	Zone that locally rubbled and broken with local gouge. Before the gouge we see a quartz/ pyrite vein. That is 4 cm wide - pyrite.							
											Py	1.5
147.95	151.52	3.57	GRD	CG	Same as general lithology.							
151.52	151.77	0.25	VEN	CG	Large quartz/ sulphide vein that is light grey and white with blebby pyrite.							
						LT	GY				Py	10
						LT	WH					
151.77	152.10	0.33	GRD	CG	Small zone of granodiorite between the quartz/ sulphide vein and dyke below. The granodiorite has strong argillic (clay) alteration that is light green/ yellow in color. This interval is also weakly brecciated with gouge occurring at the lower contact.							
						LT	GN	PH	CLY	4I		
						LT	YW					
						LT	GY					
152.10	156.19	4.09	QFP	FG	QFP dyke - tan / grey in color as well as locally dark purple from prevasive hematite alteration. The phenocrysts are clay (argillic) altered except for the glassy grey quartz ones. Fracturing that is infilled with calcite is throughout this interval. The lower contact is gougy - 9 cm.							
						LT	TN	PO	HEM	4I		
						LT	BF					
						DK	BR					
						DK	PU					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
156.19	159.20	3.01	GRD	CG	Zone with strong argillic (clay) alteration that is light green/ yellow to white locally. Two pyrite veinlet and vein in this interval.							
											Py	0.1
159.20	162.41	3.21	GRD	CG	Zone with medium to dark green chloritic alteration with moderate potassic. After 161.84 m we see the light green yellow argillic alteration coming in and we have a mixed zone until 162.41 m.							
162.41	162.54	0.13	VEN	CG	Quartz / sulpide vein. Milky white and light grey quartz with blebby pyrite, galena and sphalerite.							
						LT	GY				Py	2.5
						LT	WH				Sp	1
											Gn	0.5
162.54	164.24	1.70	GRD	CG	Variably altered granodiorite - with zones of strong argillic (clay) alteration that is light green / yellow clay with light grey quartz. As well there is a local zone of medium green chloritic alteration with moderate potassic alteration. We also see some moderate potassic alteration locally in the argillic alteration zone. Local black biotite occurring in this interval as well. Pyrite is occurring diseminated at the top contact for 10 cm by the quartz/ sulphide vein.							
						MD	GN					
						MD	PK					
						LT	GN	PH	CLY	4I	Py	0.1
						LT	YW		POT	2I		
						LT	GY		CHL	2I		
164.24	165.11	0.87	QFP	FG	Fine grained light grey QFP dyke. The phenocrysts in this interval are clay altered except for the light grey quartz phenocrysts. Lower contact is brecciated.							
						LT	GY	PO	CLY	2I		
						LT	WH					
165.11	165.44	0.33	BXA	CG	Small breccia zone with a sulphide vein. Sulphide vein is 6 cm wide and has blebby pyrite, galena and sphalerite. There is a 0.5 cm wide galena vein before the main vein.							
											Gn	1
											Sp	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	4
165.44	174.26	8.82	GRD	CG	Zone of less altered and more fresh granodiorite. At the top of the interval there is pervasive hematite starining till 167.50 m. Locally there is quartz veining with a argillic (clay) light green/ yellow halo. At the lower contact we see more dark green chlorite alteration.							
174.26	176.57	2.31	GRD	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. We see moderate potassic alteration coming in along the bottom contact. 1 large sulphide vein in this interval at 175.53 to 175.59 m. The vein is quartz and sulphides. The quartz is white to light grey and dark grey. The sulphides are pyrite, galena, sphalerite and arsenopyrite. All are blebby.							
											Py	1
											As	0.5
											Gn	0.5
											Sp	0.5
176.57	177.86	1.29	GRD	CG	Zone of less alteration with biotite altered to green chlorite. We also see moderate potassic alteration. Chlorite is also coming in along fracture surfaces. Epidote is occurring locally in blebs.							
177.86	179.58	1.72	GRD	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local zone of hematite staining. As well we see one brecciated quartz vein. The quartz is dark grey and white with pyrite, sphalerite and galena. All sulphdies are blebby.							
											Py	1.5
											Gn	0.1
											Sp	1
179.58	181.48	1.90	GRD	CG	Zone of less alteration with biotite altered to green chlorite. We also see moderate potassic alteration. Chlorite is also coming in along fracture surfaces. Epidote is occurring locally in blebs. Light green/ yellow argillic (clay alteration haloing quartz veins.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
181.48	182.81	1.33	GRD	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local hematite staining with one quartz / sulphide vein at 182.20 - 182.21 m - light grey to white quartz with blebby pyrite.							
											Py	0.5
182.81	183.49	0.68	GRD	CG	Zone of moderate chloritic aleration --> biotite to chlorite. Moderate potassic alteration for the first half of the interval and then the last half losses the potassic and is stronger blebber chloritic alteration. Sharp lower contact.							
183.49	185.93	2.44	GRD	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local fracturing with calcite infilling. Quartz/ sulphide vein at 185.18 - 185.22 m. It has light grey quartz as well as blebby pyrite, galena and sphalerite. There is strong light green/ silvery sericite alteration.							
											Gn	0.1
											Sp	0.5
											Py	1
185.93	191.50	5.57	GRD	CG	Zone of strong blebby chloritic alteration with light green/ yellow quartz. There is also some sericite alteration in these chlorite blebs. There are local sections with patchy hematite staining. After 189.76 m we see strong sericite? Alteration that has obliterated any original texture to the rock after 191 m we start see blebby chlorite again. Sharp lower contact.							
191.50	195.70	4.20	GRD	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local patchy of moderate chloritic alteration with weak potassic alteration. There is a sulphide zone in this interval that has pyrite, galena and sphalerite and possibly arsenopyrite at 132.39 - 132.61 m. Light pink quartz is also occurring in this interval. This zone is rubbly and minor gouge. There is another small sulphide vein at 194.21 - 194.215 m. The vein has sphalerite, pyrite, galena and arsenopyrite.							
											Py	0.1
											Sp	0.1
											As	0.1
											Gn	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
195.70	196.73	1.03	BXA	CG	Small zone of weak to moderate brecciation with gouge along fracture surfaces. There is trace pyrite disseminated in the gouge.							
						LT	GY				Py	0.1
196.73	200.81	4.08	GRD	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. This interval also has light grey quartz veining throughout.							
200.81	201.24	0.43	GRD	CG	Zone with strong argillic (clay) alteration that is white in color with moderate to strong potassic alteration. At the end of the interval we see a change from the white to light blue clay.							
201.24	202.22	0.98	GRD	CG	This zone has moderate chloritic alteration with moderate potassic alteration - there is also some weak sericitic alteration. There is also some light yellow / green argillic (clay) alteration around a quartz vein.							
202.22	203.14	0.92	GRD	CG	Zone of strong argillic (clay) alteration that is light blue to white with moderate to strong potassic alteration. There is also weak sericite alteration. Sharp lower contact.							
203.14	204.20	1.06	GRD	CG	Zone of medium green moderate to strong chloritic alteration with moderate potassic alteration. At the lower contact we see light blue argillic alteration. Sharp lower contact.							
204.20	204.85	0.65	GRD	CG	Zone of strong argillic (light green to yellow clay) with grey quartz.							
204.85	206.38	1.53	BXA	CG	Quartz vein breccia zone with sulphides. Quartz is milky white / grey to dark grey to near black. The main zone of sulphides are at 204.88 - 205.35 m. The dominant sulphide is pyrite but there is also galena and chalcopyrite. There is also fracturing infilled with calcite throughout this interval. Brecciated at the lower contact.							
						MD	GY					
						LT	WH				Cp	0.1
						LT	GY				Py	4
						DK	GY				Gn	0.3
						DK	BL					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
206.38	209.35	2.97	GRD	CG	Altered granodiorite with strong light green / yellow argillic (clay) alteration with grey quartz. There is also some weak potassic alteration. There is fracturing throughout this interval with calcite infilling as well as some chlorite. Local gouge zone at 205.53 - 205.59 m.							
						LT	GN	PH	CLY	4I		
						LT	YW					
						LT	GY					
209.35	209.58	0.23	VEN	CG	Quartz / sulphide vein. White to light grey quartz at the upper contact and then grading to a dark grey to black quartz. Sulphides are blebby - pyrite, galena, sphalerite and chalcopyrite. The sulpides are clustered together near the end of the vein.							
						LT	WH				Py	3
						LT	GY				Gn	1.5
						DK	BL				Cp	0.5
						DK	GY				Sp	1.5
209.58	212.02	2.44	GRD	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. This interval is weakly rubbled.							
212.02	212.52	0.50	GRD	CG	Zone of strong argillic (white) with grey quartz and this interval has strong pervasive hematite alteration.							
212.52	213.75	1.23	GRD	CG	Zone of strong blebby chlorite alteration with light colored quartz. Fracturing throughout interval with chlorite coming in along fracture surfaces.							
213.75	214.05	0.30	GRD	CG	Zone of white strong argillic (white clay) alteration with moderate hematite staining.							
214.05	216.80	2.75	GRD	CG	Zone with blebby chlorite alteration that also has sericite alteration. Zone also has moderate to strong potassic alteration as well as pervasively hematite stained? Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
216.80	217.65	0.85	GRD	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. Gradational lower contact. Pyrite is occurring in blebs at the upper contact of this interval.							
											Py	0.1
217.65	226.90	9.25	GRD	CG	Zone with blebby chlorite alteration that also has sericite alteration. Zone also has moderate to strong potassic alteration as well as pervasively hematite stained? Sharp lower contact. There is small zones of strong white argillic atleration as well.							
226.90	229.30	2.40	GRD	CG	Mixed zone with the top of the interval having strong potassic alteration with strong argillic (light green clay) alteration to 227.50 m. Then we grade into just light green / yellow argillic alteration. There is a quartz sulpide vein occurring at 228.70 - 228.75 m. The quartz is milky white to grey with pyrite, galena, sphalerite and chalcopyrite all blebby.							
											Py	0.5
											Gn	0.1
											Cp	0.1
											Sp	0.1
229.30	234.53	5.23	GRD	CG	Faulted altered granodiorite. Most of the zone is altered with dark green blebby chlorie and moderate potassic alteration that is also hematized? Interval is predominantly rubble with some minor gouge as well as some competent core. Rubble - 65%, Competent core - 30%, and gouge - 5%.							
						MD	PK	PH	CLY	4I		
						MD	GN		POT	2I		
						MD	GY					
						DK	PK		CHL	2I		
234.53	236.26	1.73	GRD	CG	Zone with light green to yellow argillic (clay) alteration.							
236.26	238.86	2.60	GRD	FG	Zone with strong alteration that is obliterating the original texture. It is tan in color with rusty orange to brown blebs. Alteration could be pervasive sericite alteration with some weak hematite atleration? Or weakly silicified? We see calcite coming in along fracture sufaces with chloritic halos.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
238.86	239.63	0.77	GRD	CG	Zone of strong argillic (clay) that was white to light blue/ green. Weakly brecciated at the upper contact. Chlorite is coming in along fracture surfaces as well.							
239.63	241.57	1.94	GRD	CG	Zone of dark green chloritic alteration. Chlorite is also coming in along fracture surfaces.							
241.57	242.35	0.78	GRD	CG	Zone of strong argillic (light green to yellow clay) as well we see moderate sericite alteration.							
242.35	242.63	0.28	VEN	CG	Zone of quartz/ sulphide veining. White and light grey quartz with pyrite, arsenopyrite, chalcopyrite and galena. All sulphides are occurring blebby. There are two different veins in this zone the first one is 9 cm wide and the second one is 7 cm wide. Sulphides are occurring together.							
						LT	WH				Py	10
						LT	GY				Cp	1
											As	3
											Gn	0.5
242.63	244.69	2.06	GRD	CG	Zone of altered granodiorite. Strong argillic (clay) alteration occurring as light green / yellow. At the lower contact we have strong patchy hematite staining the argillic alteration. In the middle of the interval we see moderate chloritic alteration with moderate potassic alteration. We also have a small rubble zone in the middle of the interval.							
						MD	GN		HEM	1I		
						MD	PK					
						MD	RD					
						LT	GN	PH	CLY	4I		
						LT	YW		CHL	2I		
						LT	GY		POT	2I		
244.69	247.66	2.97	BXA	CG	Brecciated altered granodiorite. Strong clay alteration but locally there is pervasive hematite staining that is obliterating any original texture. Locally gouge is strong with clast floating in the gouge.							
						MD	RD					
						MD	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CLY	3I		
						LT	YW		HEM	3I		
247.66	248.53	0.87	GRD	CG	Zone of strong argillic (clay) alteration that is light green to yellow in color with grey quartz. There is an apalite dyke at the start of the interval that is fine grained and appears to be slightly hematite stainined. Light grey quartz veining is occurring in this interval with chloritic halos.							
248.53	249.18	0.65	GRD	CG	Zone of pervasive sericite alteration with some weak hematite alteration or possibly silica flooding? Core is light tan with purple / brown hues.							
249.18	250.83	1.65	GRD	CG	Zone of strong chloritic alteration with weak to moderate potassic alteration. There is also disseminated black biotite in this interval. There are 4 fine grained apalite? Dykes occurring in this interval. They are rusty brown in color. Sharp lower contact. We also see light green argillic alteration haloing quartz veins.							
250.83	252.86	2.03	GRD	CG	Mixed zone of alteration but predominantly strong argillic (clay) that is light green/ yellow in color but also locally white at the upper contact with the white argillic alteration we also see moderate potassic alteration. There is also a zone of dark green chloritic alteration with moderate potassic alteration. We also see local hematite staining near the top of the interval. Sharp lower contact.							
252.86	256.44	3.58	GRD	CG	Zone of dark green chloritic alteration with moderate potassic alteration. Throughout this interval we have chlorite infilling fractures. Sharp lower contact.							
256.44	257.58	1.14	GRD	CG	Zone of alteration where original texture is obliterated and is tan/ light pinkish in hue. Possibly pervasive sericite ateration? With some hematite staining? Or silica flooding with hematite staining. This alteration could be due to quartz veining occurring in this interval? Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
257.58	259.24	1.66	GRD	CG	Zone of blebby chlorite alteration and moderate potassic alteration with a pervasive weak hematite staining. Chlorite is coming in along fracture surfaces.							
259.24	266.22	6.98	GRD	CG	This is a zone with weaker alteration and more of a fresh appearance to the granodiorite. There is moderate potassic alteration giving the rocks a more granitic appearance and there is blebby chloritic alteration. Chlorite is also coming in along fracture surfaces locally. There is an apalite dyke? Near the end of the interval. Fine grained and salmon to red colored. There is also two mineralized sulphide veins occurring in this interval that are 0.5 to 1 cm wide and have pyrite and sphalerite.							
											Py	0.5
											Sp	0.1
266.22	267.06	0.84	GRD	CG	Zone with strong argillic (clay) alteration that is white to light blue in color. Moderate potassic alteration. Black biotite is disseminated in this unit. Local large xenolith near the start of the interval that is 3 cm x 3 cm wide. Gradational lower contact.							
267.06	278.95	11.89	GRD	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. Locally there is also patchy hematite staining. There are dark green fine grained xenoliths? That are throughout this interval. They are irregular in shape and range in size. Along fracture surfaces we see calcite as well as chlorite. There is also some alteration halos around quartz veining that is light to medium green argillic (clay) alteration. Gradational lower contact with argillic zone where we see blue / green clay.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
278.95	281.36	2.41	GRD	CG	Zone of strong argillic (clay) alteration that is light green to yellow in color with grey quartz. We also see local zones with dark green chloritic alteration with moderate potassic alteration. There are two quartz / sulphide veins in this interval one at the start of the interval and one near the end of the interval. The first one is at 279.08 - 279.10 m - and is light grey quartz with blebby pyrite, sphalerite and galena. The second one is at 281.15 - 281.16 m - light grey to white quartz with blebby galena and sphalerite in the middle of the vein. As well we see some pyrite in a nearby stringer and along the vein selvage.							
											Py	0.1
											Sp	0.1
											Gn	0.1
281.36	283.86	2.50	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration. We also see black biotite that is disseminated in this unit. Around quartz veining we see strong light blue/ green argillic (clay) alteration. Gradational lower contact with less altered granodiorite.							
283.86	286.32	2.46	GRD	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. At the upper contact there is still some chloritic alteration but gets weaker as we go down interval. Quartz / calcite veining that has strong light green argillic (clay) alteration.							
286.32	286.88	0.56	FLT	CG	Small rubble zone with some minor gouge along fracture surfaces.							
286.88	289.16	2.28	GRD	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. Sharp lower contact.							
289.16	291.97	2.81	GRD	CG	Mixed zone of alteration but predominantly strong argillic (clay) alteration that is white to light blue/ green. There is moderate to strong potassic alteration throughout the interval. Black biotite is disseminated throughout this interval. There are also minor zones of gouge and rubble in this interval that are 2 - 3 cm wide.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
291.97	299.59	7.62	GRD	CG	Zone with dark green chloritic alteration and moderate potassic alteration. There is dissemianted black biotite. Around quartz veins there is an alteration halos of strong white argillic (clay) alteration. Local small rubble zones.							
299.59	300.60	1.01	GRD	CG	Zone of strong argillic (clay) alteration that is light green / yellow in color. There are two quartz / sulphide veins in this interval the first one is at 299.81 - 299.84 and has white to light grey in color and has blebby pyrite as well as galena. The second one is at 300.37 - 300.38 m - White quartz with blebby sphalerite, pyrite and galena.							
300.60	302.06	1.46	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration with black disseminated biotite. There is local light blue and white argillic (clay) alteration There is also light green / yellow argillic (clay) alteration around quartz veining.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
######	######	0.00	GRD	GRDA	CG	
0.00	1.42	1.42	CAS	---	--	Top of hole - no core recovered.
1.42	12.50	11.08	OVB	OVB	CG	OVB - a mix of competent core - coarse grained granodiorite as well as residual soil. The soil is medium brown to rusty orange in coloration. The competent core is weakly potassic altered as well as weak chloritic alteration. Locally the core is stained black from MnOx.
12.50	20.13	7.63	FLT	FLT	CG	Same as general lithology
20.13	21.33	1.20	FLT	FLT	CG	Start of argillic (clay) alteration.
21.33	21.44	0.11	VEN	FLT	CG	Quartz / sulphide vein. Quartz is light glassy grey to white with small mm vugs. Pyrite is the only sulphide occurring in this vein and is occurring disseminated above and below this vein.
21.44	22.31	0.87	FLT	FLT	CG	Continuation of argillic alteration.
22.31	22.35	0.04	VEN	FLT	CG	Vein of fresh and weathered galena.
22.35	22.48	0.13	FLT	FLT	CG	End of fault
22.48	24.03	1.55	GRD	GRDA	CG	Strong argillic clay alteration.
24.03	24.04	0.01	VEN	GRDA	CG	Quartz / sulphide vein. White and light grey quartz with blebby pyrite, galena and sphalerite.
24.04	26.91	2.87	GRD	GRDA	CG	Strong clay alteration.
26.91	27.13	0.22	FLT	FLT	CG	Same as general lithology.
27.13	27.26	0.13	FLT	FLT	FG	Gouge zone with some broken bits of core inside the gouge.
27.26	29.84	2.58	FLT	FLT	CG	Same as general lithology.
29.84	30.57	0.73	FLT	FLT	CG	Zone of gouge. The first 42 cm of gouge is "coated" in medium grained, fresh, euhedral pyrite.
30.57	31.16	0.59	QFP	DYK	CG	Same as general lithology. Fairly well brecciated section. With gouge - 20%.
31.16	31.27	0.11	VEN	DYK	CG	Quartz and sulphide vein. Light glassy grey quartz with fracturing. Fine to medium grained, fresh, euhedral pyrite occurring in gouge.
31.27	35.72	4.45	QFP	DYK	CG	Same as general lithology.
35.72	36.24	0.52	QFP	DYK	CG	Pervsively limonite altered.
36.24	36.88	0.64	QFP	DYK	CG	Same as general lithology.
36.88	37.36	0.48	QFP	DYK	CG	Pervasively limonite altered.
37.36	40.22	2.86	QFP	DYK	CG	A different dyke than above? It doesn’t have as many phenocrysts as the above one. The dyke is rusty orange to dark purple in color. Pervasively hematite altered with some limonite alteration. At the upper contact there is a part of the dyke that is unaltered and it is light grey in color. At the lower contact there is gouge (9 cm wide).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
40.22	49.50	9.28	QFP	DYK	CG	A dyke that is similar to the first dyke in this hole (30.57-37.36 m). Light grey in color where the dyke isn't prevasively limonite altered. There are glassy grey quartz phenocrysts as well as clay altered white phenocrysts. The upper portion of this dyke is brecciated till 43.67 m. This unit is pervasively limonite altered till 47.0 m and then becomes weaker and more patchy. The dyke is locally foliated at the lower contact (48.92 - 49.50 m).
49.50	58.61	9.11	GRD	GRDA	CG	Variably altered granodiorite. Throughout most of this interval we see patchy to locally pervasive limonite alteration coming in along fracture surfaces. In areas of less limonite alteration we see strong argillic (clay) alteration that is light green/ light blue to light yellow and orange. There is also zones with moderate chloritic alteration with moderate potassic alteration as well. This unit is broken and rubble throughout most of this interval. There is one quartz / sulphide vein in this interval at 55.92 - 55.93 m. Vein is glassy grey quartz with bleby pyrite (fresh) as well as oxidized galena as well as fresh locally.
58.61	66.72	8.11	GRD	FLT	CG	Faulted granodiorite. Competent core - 15%, Rubble -65%, Gouge - 20%. This zone is patchy limonite alterated to prevasively limonite alterered locally. It is also locally pervasively hematite altered giving a dark purple coloration. There is one local dark grey clast that is mineralized with pyrite and galena. In areas of less limonite alteration we see dark green chlorite alteration (moderate) and moderate potassic alteration.
66.72	72.08	5.36	GRD	GRDA	CG	Variably altered granodiorite. Most of this unit is either pervasively limonite altered or has patchy limonite alteration. In areas of less oxidization we see strong argillic (clay) alteration that is light green/ blue in color with areas of weak potassic alteration. The lower contact is faulted.
72.08	81.96	9.88	GRD	FLT	CG	Faulted and variably altered granodiorite. There are zones of strong argillic (clay) alteration - light blue/ green in color as well as white. In areas with this argillic alteration we also see moderate potassic alteration. We also see moderate potassic alteration in zones with moderate to strong chlorite alteration. This unit is very rubbled with minor gouge. Rubble - 65%, Competent core - 30% and Gouge - 5%. Locally we see strong pervasive hematite alteration but overall is trace. There are a few quartz/ sulphide veins occurring in this interval at 77.97 - 78.00, 78.07 - 78.12 m. Glassy grey and white quartz with bleby pyrite. Theres a low angle shear through the first one at 30 degrees tca truncating the vein. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue there is also moderate potassic alteration in these zones. There is also zones of dark green chloritic alteration with moderate potassic. Locally there is limonite along fracture surfaces.
81.96	82.25	0.29	GRD	GRDA	CG	Zone of strong clay alteration that gets stronger as we go down interval.
82.25	83.00	0.75	GRD	GRDA	CG	Zone with sulphide/ quartz veining hosted in granodiorite. Grey / white quartz veining with sulphides - pyrite and sphalerite. There are 6 different veins that range in size from 0.5 cm to 8 cm wide. We also see a little bit of gouge in this interval - 5 cm wide. We also see pyrtie disseminated between these veins.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
83.00	83.94	0.94	GRD	GRDA	CG	Zone of strong clay alteration that is light green / light blue in color. There is a local zone of strong potassic alteration as well we see weak potassic in the rest of the unit. There is a quartz / pyrite veinlet at 83.52 - 83.53 m that is shallowly dipping.
83.94	84.60	0.66	GRD	GRDA	CG	Zone of strong chlorite alteration with moderate potassic alteration. Sharp upper and lower contacts.
84.60	87.12	2.52	GRD	GRDA	CG	Zone of strong clay alteration - that is white ranging to light blue/ green in color. There is also moderate to locally strong potassic alteration. Sharp lower contact. In this unit we see sheeted quartz stringers (3) in 10 cm.
87.12	90.30	3.18	GRD	GRDA	CG	Dark green chloritic alteration with moderate potassic alteration.
90.30	92.60	2.30	FLT	FLT	CG	Zone of strong chlorite alteration with moderate potassic alteration. Sharp lower contact.
92.60	97.01	4.41	FLT	FLT	CG	Zone of strong clay atleration that is ranging from white to light blue/ green with weak to moderate potassic alteration.
97.01	97.73	0.72	GRD	GRDA	CG	Small zone of competent core between fault and breccia zone. We have strong argillic alteration that is light blue in color weith moderate to strong potassic alteration.
97.73	100.22	2.49	BXA	GRDA	CG	Zone of brecciated altered granodiorite. Most of the interval is gouge rich with clasts floating in the gouge at the upper contact its more rubbly till 98.44 m. There is trace pyrite disseminated throughout this interval.
100.22	103.02	2.80	GRD	GRDA	CG	Mixed zone of alteration. Throughout we see strong clay alteration that is light green/ yellow (predominantly) to white as well as light blue/ green. In the zones with light blue/ green argillic alteration we see moderate to strong potassic alteration - this is occurrring at the lower contact of this interval.
103.02	111.21	8.19	GRD	GRDA	CG	Zone of strong argillic alteration light yellow/ green in color. Alteration is strong in this interval all that is left is light yellow/ green clay and grey quartz. This interval has local gogue zones that are 1 - 1.5 cm wide. We also see local dark green chlorite coming in along fracture surfaces acting as a halo. This interval has quartz veining as well as sulphide veining. Dominantly the sulphides are pyrite but locally we have sphalerite as well. Sharp lower contact.
111.21	111.82	0.61	GRD	GRDA	CG	Zone of light blue argillic (clay) alteration with moderate potassic alteration as well as patchy chlorite alteration. Sharp lower contact.
111.82	118.41	6.59	GRD	GRDA	CG	Mixed zone of alteration with dark green chloritic alteration with moderate potassic and strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration. Throughout this interval we see fracturing infilled with calcite alteration. We also we light grey to white quartz stringers to veinlets in this interval.
118.41	118.58	0.17	VEN	GRDA	CG	Milky white and grey quartz with sulphide veining with local gouge - 3 cm wide. Pyrite is the only sulphide in this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
118.58	120.97	2.39	GRD	GRDA	CG	Zone of strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration. Local breccia zone with sulphide veining at 120.33 - 120.54 m - pyrite is the only sulphide. The lower contact is gradational with white clay (argillic) grading into the strongly chloritic alteration.
120.97	123.27	2.30	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration.
123.27	129.35	6.08	GRD	GRDA	CG	Mixed zone of alteration with dark green chloritic alteration with moderate potassic and strong argillic (clay) alteration that is light green/ yellow in color with local weak potassic alteration.There is a zone of quartz veining with sulphides at 127 - 127.09 m. We have pyrite and galena.
129.35	131.80	2.45	BXA	GRDA	CG	Zone of brecciation with gouge along the fractures and clasts locally floating in gouge. In this interval we see strong argillic (clay) alteration that is light green / yellow in color. There is a quartz/ sulphide vein at 130.37 - 130.40. The vein is light grey and white with pyrite, galena and sphalerite.
131.80	134.39	2.59	GRD	GRDA	CG	Strong argillic (clay) alteration that is white to light blue/ green in color as well we see moderate potassic alteration. Quartz veinlets are occurring in this interval.
134.39	135.10	0.71	BXA	GRDA	CG	Same as general lithology
135.10	135.39	0.29	VEN	GRDA	CG	Sulphide veins hosted in granodiorite. The first one is 7 cm wide and the second one is spread throughout. The veins contain pyrite, galena, sphalerite, arsenopyrite and chalcopyrite. The second vein is in a re-lithified breccia section.
135.39	137.16	1.77	BXA	GRDA	CG	Same as general lith.
137.16	137.21	0.05	BXA	GRDA	CG	Small section of gouge that has abundant pyrite mixed in the gouge.
137.21	140.98	3.77	BXA	GRDA	CG	Same as general lith
140.98	145.36	4.38	GRD	GRDA	CG	Same as general lithology mixed zones of strong argillic and zones of chloritic.
145.36	147.95	2.59	GRD	GRDA	CG	Zone that locally rubbled and broken with local gouge. Before the gouge we see a quartz/ pyrite vein. That is 4 cm wide - pyrite.
147.95	151.52	3.57	GRD	GRDA	CG	Same as general lithology.
151.52	151.77	0.25	VEN	VEIN	CG	Large quartz/ sulphide vein that is light grey and white with blebby pyrite.
151.77	152.10	0.33	GRD	GRDA	CG	Small zone of granodiorite between the quartz/ sulphide vein and dyke below. The granodiorite has strong argillic (clay) alteration that is light green/ yellow in color. This interval is also weakly brecciated with gouge occurring at the lower contact.
152.10	156.19	4.09	QFP	DYK	FG	QFP dyke - tan / grey in color as well as locally dark purple from prevasive hematite alteration. The phenocrysts are clay (argillic) altered except for the glassy grey quartz ones. Fracturing that is infilled with calcite is throughout this interval. The lower contact is gougy - 9 cm.
156.19	159.20	3.01	GRD	GRDA	CG	Zone with strong argillic (clay) alteration that is light green/ yellow to white locally. Two pyrite veinlet and vein in this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
159.20	162.41	3.21	GRD	GRDA	CG	Zone with medium to dark green chloritic alteration with moderate potassic. After 161.84 m we see the light green yellow argillic alteration coming in and we have a mixed zone until 162.41 m.
162.41	162.54	0.13	VEN	VEIN	CG	Quartz / sulpide vein. Milky white and light grey quartz with blebby pyrite, galena and sphalerite.
162.54	164.24	1.70	GRD	GRDA	CG	Variably altered granodiorite - with zones of strong argillic (clay) alteration that is light green / yellow clay with light grey quartz. As well there is a local zone of medium green chloritic alteration with moderate potassic alteration. We also see some moderate potassic alteration locally in the argillic alteration zone. Local black biotite occurring in this interval as well. Pyrite is occurring diseminated at the top contact for 10 cm by the quartz/ sulphide vein.
164.24	165.11	0.87	QFP	DYK	FG	Fine grained light grey QFP dyke. The phenocrysts in this interval are clay altered except for the light grey quartz phenocrysts. Lower contact is brecciated.
165.11	165.44	0.33	BXA	GRDA	CG	Small breccia zone with a sulphide vein. Sulphide vein is 6 cm wide and has blebby pyrite, galena and sphalerite. There is a 0.5 cm wide galena vein before the main vein.
165.44	174.26	8.82	GRD	GRDA	CG	Zone of less altered and more fresh granodiorite. At the top of the interval there is pervasive hematite starining till 167.50 m. Locally there is quartz veining with a argillic (clay) light green/ yellow halo. At the lower contact we see more dark green chlorite alteration.
174.26	176.57	2.31	GRD	GRDA	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. We see moderate potassic alteration coming in along the bottom contact. 1 large sulphide vein in this interval at 175.53 to 175.59 m. The vein is quartz and sulphides. The quartz is white to light grey and dark grey. The sulphides are pyrite, galena, sphalerite and arsenopyrite. All are blebby.
176.57	177.86	1.29	GRD	GRDA	CG	Zone of less alteration with biotite altered to green chlorite. We also see moderate potassic alteration. Chlorite is also coming in along fracture surfaces. Epidote is occurring locally in blebs.
177.86	179.58	1.72	GRD	GRDA	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local zone of hematite staining. As well we see one brecciated quartz vein. The quartz is dark grey and white with pyrite, sphalerite and galena. All sulphdies are blebby.
179.58	181.48	1.90	GRD	GRDA	CG	Zone of less alteration with biotite altered to green chlorite. We also see moderate potassic alteration. Chlorite is also coming in along fracture surfaces. Epidote is occurring locally in blebs. Light green/ yellow argillic (clay alteration haloing quartz veins.
181.48	182.81	1.33	GRD	GRDA	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local hematite staining with one quartz / sulphide vein at 182.20 - 182.21 m - light grey to white quartz with blebby pyrite.
182.81	183.49	0.68	GRD	GRDA	CG	Zone of moderate chloritic aleration --> biotite to chlorite. Moderate potassic alteration for the first half of the interval and then the last half losses the potassic and is stronger blebber chloritic alteration. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
183.49	185.93	2.44	GRD	GRDA	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local fracturing with calcite infilling. Quartz/ sulphide vein at 185.18 - 185.22 m. It has light grey quartz as well as blebby pyrite, galena and sphalerite. There is strong light green/ silvery sericite alteration.
185.93	191.50	5.57	GRD	GRDA	CG	Zone of strong blebby chloritic alteration with light green/ yellow quartz. There is also some sericite alteration in these chlorite blebs. There are local sections with patchy hematite staining. After 189.76 m we see strong sericite? Alteration that has obliterated any original texture to the rock after 191 m we start see blebby chlorite again. Sharp lower contact.
191.50	195.70	4.20	GRD	GRDA	CG	Zone of strong light green/ yellow argillic clay alteration with grey quartz. Local patchy of moderate chloritic alteration with weak potassic alteration. There is a sulphide zone in this interval that has pyrite, galena and sphalerite and possibly arsenopyrite at 132.39 - 132.61 m. Light pink quartz is also occurring in this interval. This zone is rubbly and minor gouge. There is another small sulphide vein at 194.21 - 194.215 m. The vein has sphalerite, pyrite, galena and arsenopyrite.
195.70	196.73	1.03	BXA	GRDA	CG	Small zone of weak to moderate brecciation with gouge along fracture surfaces. There is trace pyrite disseminated in the gouge.
196.73	200.81	4.08	GRD	GRDA	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. This interval also has light grey quartz veining throughout.
200.81	201.24	0.43	GRD	GRDA	CG	Zone with strong argillic (clay) alteration that is white in color with moderate to strong potassic alteration. At the end of the interval we see a change from the white to light blue clay.
201.24	202.22	0.98	GRD	GRDA	CG	This zone has moderate chloritic alteration with moderate potassic alteration - there is also some weak sericitic alteration. There is also some light yellow / green argillic (clay) alteration around a quartz vein.
202.22	203.14	0.92	GRD	GRDA	CG	Zone of strong argillic (clay) alteration that is light blue to white with moderate to strong potassic alteration. There is also weak sericite alteration. Sharp lower contact.
203.14	204.20	1.06	GRD	GRDA	CG	Zone of medium green moderate to strong chloritic alteration with moderate potassic alteration. At the lower contact we see light blue argillic alteration. Sharp lower contact.
204.20	204.85	0.65	GRD	GRDA	CG	Zone of strong argillic (light green to yellow clay) with grey quartz.
204.85	206.38	1.53	BXA	VEIN	CG	Quartz vein breccia zone with sulphides. Quartz is milky white / grey to dark grey to near black. The main zone of sulphides are at 204.88 - 205.35 m. The dominant sulphide is pyrite but there is also galena and chalcopyrite. There is also fracturing infilled with calcite throughout this interval. Brecciated at the lower contact.
206.38	209.35	2.97	GRD	GRDA	CG	Altered granodiorite with strong light green / yellow argillic (clay) alteration with grey quartz. There is also some weak potassic alteration. There is fracturing throughout this interval with calcite infilling as well as some chlorite. Local gouge zone at 205.53 - 205.59 m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
209.35	209.58	0.23	VEN	VEIN	CG	Quartz / sulphide vein. White to light grey quartz at the upper contact and then grading to a dark grey to black quartz. Sulphides are blebby - pyrite, galena, sphalerite and chalcopyrite. The sulpides are clustered together near the end of the vein.
209.58	212.02	2.44	GRD	GRDA	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. This interval is weakly rubbled.
212.02	212.52	0.50	GRD	GRDA	CG	Zone of strong argillic (white) with grey quartz and this interval has strong pervasive hematite alteration.
212.52	213.75	1.23	GRD	GRDA	CG	Zone of strong blebby chlorite alteration with light colored quartz. Fracturing throughout interval with chlorite coming in along fracture surfaces.
213.75	214.05	0.30	GRD	GRDA	CG	Zone of white strong argillic (white clay) alteration with moderate hematite staining.
214.05	216.80	2.75	GRD	GRDA	CG	Zone with blebby chlorite alteration that also has sericite alteration. Zone also has moderate to strong potassic alteration as well as pervasively hematite stained? Sharp lower contact.
216.80	217.65	0.85	GRD	GRDA	CG	Zone of strong argillic (light green to yellow clay) with grey quartz. Gradational lower contact. Pyrite is occurring in blebs at the upper contact of this interval.
217.65	226.90	9.25	GRD	GRDA	CG	Zone with blebby chlorite alteration that also has sericite alteration. Zone also has moderate to strong potassic alteration as well as pervasively hematite stained? Sharp lower contact. There is small zones of strong white argillic atleration as well.
226.90	229.30	2.40	GRD	GRDA	CG	Mixed zone with the top of the interval having strong potassic alteration with strong argillic (light green clay) alteration to 227.50 m. Then we grade into just light green / yellow argillic alteration. There is a quartz sulpide vein occurring at 228.70 - 228.75 m. The quartz is milky white to grey with pyrite, galena, sphalerite and chalcopyrite all blebby.
229.30	234.53	5.23	GRD	FLT	CG	Faulted altered granodiorite. Most of the zone is altered with dark green blebby chlorie and moderate potassic alteration that is also hematized? Interval is predominantly rubble with some minor gouge as well as some competent core. Rubble - 65%, Competent core - 30%, and gouge - 5%.
234.53	236.26	1.73	GRD	GRDA	CG	Zone with light green to yellow argillic (clay) alteration.
236.26	238.86	2.60	GRD	GRDA	FG	Zone with strong alteration that is obliterating the original texture. It is tan in color with rusty orange to brown blebs. Alteration could be pervasive sericite alteration with some weak hematite atleration? Or weakly silicified? We see calcite coming in along fracture sufaces with chloritic halos.
238.86	239.63	0.77	GRD	GRDA	CG	Zone of strong argillic (clay) that was white to light blue/ green. Weakly brecciated at the upper contact. Chlorite is coming in along fracture surfaces as well.
239.63	241.57	1.94	GRD	GRDA	CG	Zone of dark green chloritic alteration. Chlorite is also coming in along fracture surfaces.
241.57	242.35	0.78	GRD	GRDA	CG	Zone of strong argillic (light green to yellow clay) as well we see moderate sericite alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
242.35	242.63	0.28	VEN	VEIN	CG	Zone of quartz/ sulphide veining. White and light grey quartz with pyrite, arsenopyrite, chalcopyrite and galena. All sulphides are occurring blebby. There are two different veins in this zone the first one is 9 cm wide and the second one is 7 cm wide. Sulphides are occurring together.
242.63	244.69	2.06	GRD	GRDA	CG	Zone of altered granodiorite. Strong argillic (clay) alteration occurring as light green / yellow. At the lower contact we have strong patchy hematite staining the argillic alteration. In the middle of the interval we see moderate chloritic alteration with moderate potassic alteration. We also have a small rubble zone in the middle of the interval.
244.69	247.66	2.97	BXA	GRDA	CG	Brecciated altered granodiorite. Strong clay alteration but locally there is pervasive hematite staining that is obliterating any original texture. Locally gouge is strong with clast floating in the gouge.
247.66	248.53	0.87	GRD	GRDA	CG	Zone of strong argillic (clay) alteration that is light green to yellow in color with grey quartz. There is an apalite dyke at the start of the interval that is fine grained and appears to be slightly hematite stainined. Light grey quartz veining is occurring in this interval with chloritic halos.
248.53	249.18	0.65	GRD	GRDA	CG	Zone of pervasive sericite alteration with some weak hematite alteration or possibly silica flooding? Core is light tan with purple / brown hues.
249.18	250.83	1.65	GRD	GRDA	CG	Zone of strong chloritic alteration with weak to moderate potassic alteration. There is also disseminated black biotite in this interval. There are 4 fine grained apalite? Dykes occurring in this interval. They are rusty brown in color. Sharp lower contact. We also see light green argillic alteration haloing quartz veins.
250.83	252.86	2.03	GRD	GRDA	CG	Mixed zone of alteration but predominantly strong argillic (clay) that is light green/ yellow in color but also locally white at the upper contact with the white argillic alteration we also see moderate potassic alteration. There is also a zone of dark green chloritic alteration with moderate potassic alteration. We also see local hematite staining near the top of the interval. Sharp lower contact.
252.86	256.44	3.58	GRD	GRDA	CG	Zone of dark green chloritic alteration with moderate potassic alteration. Throughout this interval we have chlorite infilling fractures. Sharp lower contact.
256.44	257.58	1.14	GRD	GRDA	CG	Zone of alteration where original texture is obliterated and is tan/ light pinkish in hue. Possibly pervasive sericite ateration? With some hematite staining? Or silica flooding with hematite staining. This alteration could be due to quartz veining occurring in this interval? Sharp lower contact.
257.58	259.24	1.66	GRD	GRDA	CG	Zone of blebby chlorite alteration and moderate potassic alteration with a pervasive weak hematite staining. Chlorite is coming in along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
259.24	266.22	6.98	GRD	GRDA	CG	This is a zone with weaker alteration and more of a fresh appearance to the granodiorite. There is moderate potassic alteration giving the rocks a more granitic appearance and there is blebby chloritic alteration. Chlorite is also coming in along fracture surfaces locally. There is an apalite dyke? Near the end of the interval. Fine grained and salmon to red colored. There is also two mineralized sulphide veins occurring in this interval that are 0.5 to 1 cm wide and have pyrite and sphalerite.
266.22	267.06	0.84	GRD	GRDA	CG	Zone with strong argillic (clay) alteration that is white to light blue in color. Moderate potassic alteration. Black biotite is disseminated in this unit. Local large xenolith near the start of the interval that is 3 cm x 3 cm wide. Gradational lower contact.
267.06	278.95	11.89	GRD	GRDA	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. Locally there is also patchy hematite staining. There are dark green fine grained xenoliths? That are throughout this interval. They are irregular in shape and range in size. Along fracture surfaces we see calcite as well as chlorite. There is also some alteration halos around quartz veining that is light to medium green argillic (clay) alteration. Gradational lower contact with argillic zone where we see blue / green clay.
278.95	281.36	2.41	GRD	GRDA	CG	Zone of strong argillic (clay) alteration that is light green to yellow in color with grey quartz. We also see local zones with dark green chloritic alteration with moderate potassic alteration. There are two quartz / sulphide veins in this interval one at the start of the interval and one near the end of the interval. The first one is at 279.08 - 279.10 m - and is light grey quartz with blebby pyrite, sphalerite and galena. The second one is at 281.15 - 281.16 m - light grey to white quartz with blebby galena and sphalerite in the middle of the vein. As well we see some pyrite in a nearby stringer and along the vein selvage.
281.36	283.86	2.50	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration. We also see black biotite that is disseminated in this unit. Around quartz veining we see strong light blue/ green argillic (clay) alteration. Gradational lower contact with less altered granodiorite.
283.86	286.32	2.46	GRD	GRDA	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. At the upper contact there is still some chloritic alteration but gets weaker as we go down interval. Quartz / calcite veining that has strong light green argillic (clay) alteration.
286.32	286.88	0.56	FLT	GRDA	CG	Small rubble zone with some minor gouge along fracture surfaces.
286.88	289.16	2.28	GRD	GRDA	CG	Zone with weaker alteration and a more fresh granodiorite. There is blebby cholorite alteration as well as weak to moderate potassic alteration. Sharp lower contact.
289.16	291.97	2.81	GRD	GRDA	CG	Mixed zone of alteration but predominantly strong argillic (clay) alteration that is white to light blue/ green. There is moderate to strong potassic alteration throughout the interval. Black biotite is disseminated throughout this interval. There are also minor zones of gouge and rubble in this interval that are 2 - 3 cm wide.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
291.97	299.59	7.62	GRD	GRDA	CG	Zone with dark green chloritic alteration and moderate potassic alteration. There is dissemianted black biotite. Around quartz veins there is an alteration halos of strong white argillic (clay) alteration. Local small rubble zones.
299.59	300.60	1.01	GRD	GRDA	CG	Zone of strong argillic (clay) alteration that is light green / yellow in color. There are two quartz / sulphide veins in this interval the first one is at 299.81 - 299.84 and has white to light grey in color and has blebby pyrite as well as galena. The second one is at 300.37 - 300.38 m - White quartz with blebby sphalerite, pyrite and galena.
300.60	302.06	1.46	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration with black disseminated biotite. There is local light blue and white argillic (clay) alteration There is also light green / yellow argillic (clay) alteration around quartz veining.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.42	1.42	CAS	--	Top of hole - no core recovered.							
1.42	12.50	11.08	OVB	CG	OVB - a mix of competent core - coarse grained granodiorite as well as residual soil. The soil is medium brown to rusty orange in coloration. The competent core is weakly potassic altered as well as weak chloritic alteration. Locally the core is stained black from MnOx.							
						LT	BR	PH	LIM	4I		
						MD	BR		MNO	2I		
						MD	OR		POT	2I		
						DK	OR		CHL	2I		
						LT	WH					
						LT	PK					
						DK	BL					
12.50	22.48	9.98	GRD	CG	Fault zone at the top of the hole hosted in granodiorite. Competent core - 30%, Rubble - 60%, Gouge - 10%. The granodiorite is coarse grained but pervasively limonite alterated there are only a few places where limonite isn't pervasive and only patchy along fracture surfaces. After 19.87 m the limonite alteration is only patchy and along fracture surfaces. We also see argillic (clay) alteration after this point as well. The clay is light yellow to rusty orange in color. Locally the granodiorite is also stained with Mnox coming in along fracture surfaces as well. At 21.0 m to the start of the sulphide vein at 21.33 m we see disseminated pyrite also after the vein till 21.68 m. Large galena vein at the end of the interval as well.							
						LT	GY					
						LT	YW					
						MD	GY					
						MD	OR	RB			Gn	0.1
						DK	OR	PH	LIM	4I	Py	0.1
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
22.48	26.91	4.43	GRD	CG	Coarse grained altered granodiorite. The dominant alteration is argillic (clay) that is light green/ blue in color but it is locally also white. In these zone of alteration all that is left is the clay as well as quartz. In the zone of white clay alteration we also see moderate potassic alteration. There is also moderate chlorite alteration haloing quartz stringers. As we approach the lower contact its starting to become rubbled and more broken. Limonite is coming in along fracture surfaces as well as locally pervasive. There is one quartz / sulphide vein in the interval.							
						LT	GN	PH	LIM	2I	Py	0.01
						LT	YW		CLY	4I	Gn	0.01
						LT	BL		CHL	1I	Sp	0.01
						LT	GY		POT	1I		
						LT	WH					
						MD	PK					
						MD	GN					
26.91	30.57	3.66	GRD	CG	Fault zone with altered granodiorite. Same as above granodiorite with strong argillic (clay alteration) that is light green / blue in color. In these zone all we see is the clay and quartz. We also see weak potassic alteration locally. Limonite is coming in along fracture surfaces moderately. There are two large gouge zones at 27.14 - 27.27 m and 29.84 - 30.41 m. In the lower gouge zone we see abundant pyrite "coating the gouge". The gouge is light green/ blue under the pyrite - seritized. There is also a ~3 cm wide quartz vein before the gouge zone. Competent core - 40%, Rubble - 40%, and Gouge - 20%. At the lower contact we have a dyke coming in but due to the faulting its hard to tell where the dyke starts so dyke could start sooner.							
						LT	GN		CLY	4I		
						LT	PK					
						LT	GY	PH	LIM	2I	Py	1
						LT	BL		POT	1I		
						LT	OR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
30.57	37.36	6.79	BXA	CG	QFP dyke that is medium to light grey green (same as previous hole KL-20-479) that is brecciated. There are large glassy grey quartz phenocrysts as well as light green clay altered phenocrysts. There is one quartz/ sulphide vein near the start of the interval at 31.16 - 31.27 m. There are two zones of pervasive limonite alteration at 35.71 - 36.24 m and 36.88 - 37.24 m. Faulted lower contact with a different dyke?							
						LT	GN	PO	CLY	4I	Py	0.1
						LT	GY					
						MD	OR					
						DK	OR					
37.36	40.22	2.86	QFP	CG	A different dyke than above? It doesn't have as many phenocrysts as the above one. The dyke is rusty orange to dark purple in color. Pervasively hematite altered with some limonite alteration. At the upper contact there is a part of the dyke that is unaltered and it is light grey in color. At the lower contact there is gouge (9 cm wide).							
						DK	PU	PO	HEM	5I		
						DK	OR		LIM	2I		
						MD	OR		CLY	2I		
40.22	49.50	9.28	QFP	CG	A dyke that is similar to the first dyke in this hole (30.57-37.36 m). Light grey in color where the dyke isn't prevasively limonite altered. There are glassy grey quartz phenocrysts as well as clay altered white phenocrysts. The upper portion of this dyke is brecciated till 43.67 m. This unit is pervasively limonite altered till 47.0 m and then becomes weaker and more patchy. The dyke is locally foliated at the lower contact (48.92 - 49.50 m).							
						DK	OR	PO	LIM	4I		
						LT	BF					
						DK	BR					
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
49.50	58.61	9.11	GRD	CG	Variably altered granodiorite. Throughout most of this interval we see patchy to locally pervasive limonite alteration coming in along fracture surfaces. In areas of less limonite alteration we see strong argillic (clay) alteration that is light green/ light blue to light yellow and orange. There is also zones with moderate chloritic alteration with moderate potassic alteration as well. This unit is broken and rubble throughout most of this interval. There is one quartz / sulphide vein in this interval at 55.92 - 55.93 m. Vein is glassy grey quartz with bleby pyrite (fresh) as well as oxidized galena as well as fresh locally.							
						LT	BL					
						LT	OR	PH	LIM	4I	Py	0.01
						MD	OR		CLY	2I	Gn	0.01
						DK	OR		CHL	2I		
						MD	GN		POT	2I		
						LT	PK					
						LT	GN					
58.61	66.72	8.11	GRD	CG	Faulted granodiorite. Competent core - 15%, Rubble -65%, Gouge - 20%. This zone is patchy limonite alterated to prevasively limonite alterered locally. It is also locally pervasively hematite altered giving a dark purple coloration. There is one local dark grey clast that is mineralized with pyrite and galena. In areas of less limonite alteration we see dark green chlorite alteration (moderate) and moderate potassic alteration.							
						MD	GN		CHL	2I		
						MD	PK		POT	2I		
						MD	OR		HEM	1I		
						DK	OR	PH	LIM	4I		
66.72	72.08	5.36	GRD	CG	Variably altered granodiorite. Most of this unit is either pervasively limonite altered or has patchy limonite alteration. In areas of less oxidization we see strong argillic (clay) alteration that is light green/ blue in color with areas of weak potassic alteration. The lower contact is faulted.							
						MD	OR	PH	LIM	4I		
						DK	OR		CLY	3I		
						MD	GY		POT	1I		
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BL					
						LT	WH					
72.08	81.96	9.88	GRD	CG	Faulted and variably altered granodiorite. There are zones of strong argillic (clay) alteration - light blue/ green in color as well as white. In areas with this argillic alteration we also see moderate potassic alteration. We also see moderate potassic alteration in zones with moderate to strong chlorite alteration. This unit is very rubbled with minor gouge. Rubble - 65%, Competent core - 30% and Gouge - 5%. Locally we see strong pervasive hematite alteration but overall is trace. There are a few quartz/ sulphide veins occurring in this interval at 77.97 - 78.00, 78.07 - 78.12 m. Glassy grey and white quartz with bleby pyrite. Theres a low angle shear through the first one at 30 degrees tca truncating the vein. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue there is also moderate potassic alteration in these zones. There is also zones of dark green chloritic alteration with moderate potassic. Locally there is limonite along fracture surfaces.							
						LT	WH		LIM	1I		
						MD	PK		POT	3I		
						MD	OR					
						MD	GN		CHL	3I		
						LT	GN	PH	CLY	4I	Py	0.1
81.96	90.30	8.34	GRD	CG	Variably altered granodiorite. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue there is also weak potassic alteration in these zones. Locally these zone are very strongly altered and all that is left is light green clay alteration with grey quartz. There is also zones of dark green chloritic alteration with moderate potassic. Locally there is limonite along fracture surfaces. The lower contact is faulted. Locally we see sheeted quartz veins. At the top of this interval we see small sulphide veining with quartz.							
						DK	GN	PH	CLY	4I	Py	0.1
						MD	GN		CHL	4I		
						LT	GY					
						MD	PK		POT	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	BL					
90.30	97.01	6.71	GRD	CG	Variably altered granodiorite that is faulted. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue there is also weak potassic alteration in these zones. Locally these zone are very strongly altered and all that is left is light green clay alteration with grey quartz. There is also zones of dark green chloritic alteration with moderate potassic. This unit is predominantly rubble with some minor gouge. Rubble - 60%. Competent core - 30% and gouge - 10%.							
						LT	GN					
						LT	BL					
						DK	GN	PH	CLY	4I		
						MD	GN		POT	3I		
						MD	PK		CHL	4I		
						LT	WH					
97.01	97.73	0.72	GRD	CG	Small zone of competent core between fault and breccia zone. We have strong argillic alteration that is light blue in color weith moderate to strong potassic alteration.							
						LT	GY					
						MD	PK					
						LT	WH	PH	CLY	4I		
						LT	BL		POT	3I		
97.73	100.22	2.49	BXA	CG	Zone of brecciated altered granodiorite. Most of the interval is gouge rich with clasts floating in the gouge at the upper contact its more rubbly till 98.44 m. There is trace pyrite disseminated throughout this interval.							
						LT	GY	PH			Py	0.1
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
100.22	134.39	34.17	GRD	CG	Variably altered granodiorite. The granodiorite ranges from strong argillic (clay) that ranges in color from white to light green/ blue to light green - yellow. In zones with white / to light blue green alteration we have weak to moderate potassic alteration. Locally these zone are very strongly altered and all that is left is light green to light green / yellow clay alteration with grey quartz. There is also zones of dark green chloritic alteration with moderate potassic. In this unit we see grey to white quartz veining. We also see sulphide veining occurring with quartz in this interval.							
						LT	GN	PH	CLY	4I		
						LT	WH		CHL	2I		
						MD	PK		POT	2I		
						LT	YW					
						DK	GN					
134.39	140.98	6.59	BXA	CG	Altered granodiorite that is locally brecciated. Strong argillic (clay) alteration. All that is left is clay and quartz. There is a sulphide vein zone occurring at 135.10 - 135.39 m. The first vein is associated with milky white quartz and the second is in a re-lithified breccia. The first vein consists of pyrite, galena, chalcopyrite and sphalerite. The second one has pyrite, arsenopyrite, sphalerite and galena.							
						LT	GN	PH	CLY	4I	Py	0.1
											Sp	0.1
						LT	YW				Gn	0.1
						LT	GY				Cp	0.1
						MD	GY				As	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
140.98	151.52	10.54	GRD	CG	Variable altered granodiorite with zones of strong argillic (clay) alteration that range in color from white to light green/ yellow to light blue/ green. There is also weak to moderate potassic alteration associated with this alteration. We also see dark green chloritic alteration with moderate potassic alteration and black biotite disseminated locally. Locally this interval is rubble and has gouge. There are local sulphide/ quartz veins that range in size from 0.5 cm to 4 cm wide. Predominantly made up of pyrite but also some trace sphalerite. Quartz/ sulphide veinlet - 145.60 - 145.605 m. Quartz is white and light grey with blebby pyrite and galena. 147.82 - 147.85 m - light grey quartz/ sulphide vein with blebby pyrite. 148.07 - 148.08 m - sulphide veinlet with blebby pyrite and sphalerite.							
						LT	YW		CLY	4I	Sp	0.1
						DK	GN		POT	3I		
						MD	PK					
						LT	BL					
						LT	GN	PH	CHL	3I	Py	0.1
151.52	151.77	0.25	VEN	CG	Large quartz/ sulphide vein that is light grey and white with blebby pyrite.							
						LT	GY				Py	10
						LT	WH					
151.77	152.10	0.33	GRD	CG	Small zone of granodiorite between the quartz/ sulphide vein and dyke below. The granodiorite has strong argillic (clay) alteration that is light green/ yellow in color. This interval is also weakly brecciated with gouge occurring at the lower contact.							
						LT	GN	PH	CLY	4I		
						LT	YW					
						LT	GY					
152.10	156.19	4.09	QFP	FG	QFP dyke - tan / grey in color as well as locally dark purple from prevasive hematite alteration. The phenocrysts are clay (argillic) altered except for the glassy grey quartz ones. Fracturing that is infilled with calcite is throughout this interval. The lower contact is gougy - 9 cm.							
						DK	PU					
						DK	BR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BF					
						LT	TN	PO	HEM	4I		
156.19	162.41	6.22	GRD	CG	Variable altered granodiorite. We see zones of strong argillic (clay) alteration that is light green/ yellow with grey quartz. In these zones we locally see weak to moderate potassic alteration but predominantly not in this interval. There is also medium to dark green chloritic alteration with moderate potassic alteration. There are two pyrite veins one that is 0.5 cm wide and the other is 2.5 cm wide that is broken. The first one is at 157.23 - 157.26 m and is associated with quartz. The second one is at 152.03 - 152.04 m.							
						LT	GN		CHL	3I		
						LT	GY		POT	3I		
						DK	GN					
						MD	PK					
						LT	WH	PH	CLY	4I	Py	0.1
162.41	162.54	0.13	VEN	CG	Quartz / sulpide vein. Milky white and light grey quartz with blebby pyrite, galena and sphalerite throughout the vein. The sulphides are locally associated with one another as well as occurring seperately.							
						LT	GY				Py	2.5
						LT	WH				Sp	1
											Gn	0.5
162.54	164.24	1.70	GRD	CG	Variably altered granodiorite - with zones of strong argillic (clay) alteration that is light green / yellow clay with light grey quartz. As well there is a local zone of medium green chloritic alteration with moderate potassic alteration. We also see some moderate potassic alteration locally in the argillic alteration zone. Local black biotite occurring in this interval as well. Pyrite is occurring diseminated at the top contact for 10 cm by the quartz/ sulphide vein.							
						LT	GN	PH	CLY	4I	Py	0.1
						MD	GN					
						MD	PK					
						LT	YW		POT	2I		
						LT	GY		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
164.24	165.11	0.87	QFP	FG	Fine grained light grey QFP dyke. The phenocrysts in this interval are clay altered except for the light grey quartz phenocrysts. Lower contact is brecciated.							
						LT	GY	PO	CLY	2I		
						LT	WH					
165.11	195.70	30.59	GRD	CG	Variably altered granodiorite - with zones of strong argillic (clay) alteration that is light green / yellow clay with light grey quartz. As well there is a local zone of medium to dark green chloritic alteration with moderate potassic alteration. Local black biotite occurring in this interval as well. There is also another zone with very little alteration (granitic in nautre) with moderate potassic alteration. There are dark green, fine grained xenoliths? Occurring throughout this interval. There are a fe quartz / sulphide veins occurring in this interval. Chlorite is coming in along fracture surfaces as well we see calcite. There is also a possible small zone of rhodocrosite.							
						MD	GN					
						MD	PK					
						DK	GN					
						LT	GY		POT	3I		
						LT	YW		CHL	3I		
						LT	GN	PH	CLY	4I		
195.70	196.73	1.03	BXA	CG	Small zone of weak to moderate brecciation with gouge along fracture surfaces. There is trace pyrite disseminated in the gouge.							
						LT	GY				Py	0.1
196.73	204.85	8.12	GRD	CG	Variably altered granodiorite with zones of strong argillic (light green to yellow clay) with qrey quartz. We also see zones with strong white to light blue argillic (clay) alteration and moderate to strong potassic alteration - this zone is occurring between light green/ yellow argillic alteration and the moderate chloritic alteration with moderate potassic alteration - there is also some weak sericitic alteration.							
						LT	YW	PH	CLY	4I		
						LT	GN		POT	2I		
						LT	GY		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						MD	PK					
						LT	BL					
204.85	206.38	1.53	BXA	CG	Quartz vein breccia zone with sulphides. Quartz is milky white / grey to dark grey to near black. The main zone of sulphides are at 204.88 - 205.35 m. The dominant sulphide is pyrite but there is also galena and chalcopyrite. There is also fracturing infilled with calcite throughout this interval. Brecciated at the lower contact.							
						DK	BL					
						MD	GY					
						LT	WH				Cp	0.1
						LT	GY				Py	4
						DK	GY				Gn	0.3
206.38	209.35	2.97	GRD	CG	Altered granodiorite with strong light green / yellow argillic (clay) alteration with grey quartz. There is also some weak potassic alteration. There is fracturing throughout this interval with calcite infilling as well as some chlorite. Local gouge zone at 205.53 - 205.59 m.							
						LT	GN	PH	CLY	4I		
						LT	YW					
						LT	GY					
209.35	209.58	0.23	VEN	CG	Quartz / sulphide vein. White to light grey quartz at the upper contact and then grading to a dark grey to black quartz. Sulphides are blebby - pyrite, galena, sphalerite and chalcopyrite. The sulpides are clustered together near the end of the vein.							
						LT	WH				Py	3
						LT	GY				Gn	1.5
						DK	BL				Cp	0.5
						DK	GY				Sp	1.5
209.58	229.30	19.72	GRD	CG	Variably altered granodiorite with zones of strong argillic (light green to yellow to white) clay with grey quartz. There is also zones with dark green chloritic alteration and light colored quartz. There is also a third type that has moderate chlorite occurring as blebs (biotite to chlorite), with moderate potassic alteration and locally hematized.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CLY	4I		
						DK	GN					
						DK	RD					
						MD	PK					
						LT	YW		CHL	3I		
						LT	GY		HEM	1I		
229.30	234.53	5.23	GRD	CG	Faulted altered granodiorite. Most of the zone is altered with dark green blebby chlorie and moderate potassic alteration that is also hematized? Interval is predominantly rubble with some minor gouge as well as some competent core. Rubble - 65%, Competent core - 30%, and gouge - 5%.							
						MD	PK	PH	CLY	4I		
						DK	PK		CHL	2I		
						MD	GN		POT	2I		
						MD	GY					
234.53	242.35	7.82	GRD	CG	Very altered granodiorite - different from anything seen in this hole and previous holes in this area. In zones the alteration is so strong it has almost completely obliterated the orginal texture of the granodiorite. We have patches of the regular strong argillic (clay that is white to light green / yellow in color) as well as the strong chlorite alteration that is pervasive. This main alteration turns the core to a light tan with some rusty orange to brown blebs. Possilby sericite with some weak hematite alteration or weakly silica flooded bleaching out the rock.							
						LT	TN		HEM	2I		
						DK	GN					
						LT	WH		CHL	3I		
						LT	GN	PH	CLY	2I		
						LT	BL					
						LT	YW		SER	4I		
242.35	242.63	0.28	VEN	CG	Zone of quartz/ sulphide veining. White and light grey quartz with pyrite, arsenopyrite, chalcopyrite and galena. All sulphides are occurring blebby. There are two different veins in this zone the first one is 9 cm wide and the second one is 7 cm wide. Sulphides are occurring together.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH				Py	10
						LT	GY				Cp	1
											As	3
											Gn	0.5
242.63	244.69	2.06	GRD	CG	Zone of altered granodiorite. Strong argillic (clay) alteration occurring as light green / yellow. At the lower contact we have strong patchy hematite staining the argillic alteration. In the middle of the interval we see moderate chloritic alteration with moderate potassic alteration. We also have a small rubble zone in the middle of the interval.							
						MD	PK					
						MD	RD					
						MD	GN		HEM	1I		
						LT	GY		POT	2I		
						LT	YW		CHL	2I		
						LT	GN	PH	CLY	4I		
244.69	247.66	2.97	BXA	CG	Brecciated altered granodiorite. Strong clay alteration but locally there is pervasive hematite staining that is obliterating any original texture. Locally gouge is strong with clast floating in the gouge.							
						LT	YW		HEM	3I		
						MD	RD					
						MD	PK					
						LT	GN	PH	CLY	3I		
247.66	302.06	54.40	GRD	CG	Variably altered granodiorite with different zones of alteration. There are zones of strong argillic (clay) alteration the is occurring as light green to light yellow with light grey quartz. We also have zones of light blue argillic alteration with moderate to strong potassic alteration. There is also zones with dark green chloritic alteration with moderate potassic alteration. The last alteration zone is a more fresh granodiorite with some weak blebby chloritic alteration (blebby). There are a few quartz / sulphide veins in this interval - 7 throughout this interval.							
						LT	GY					
						LT	GN	PH	CLY	4I		
						LT	YW		CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		POT	3I		
						LT	BL					
						MD	PK					
						MD	GN					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.42	1.42	0	0	0.00	0	--	--	--	
1.42	1.52	0.10	0.05	50	0.00	0	--	--	--	overburden
1.52	3.04	1.52	0.33	22	0.00	0	--	1H	6W	overburden/ soil
3.04	4.57	1.53	0.57	37	0.00	0	--	3H	5W	
4.57	6.09	1.52	0.42	28	0.00	0	--	2H	6W	
6.09	7.62	1.53	0.33	22	0.00	0	--	2H	4W	
7.62	9.14	1.52	0.56	37	0.00	0	--	2H	4W	
9.14	10.67	1.53	0.98	64	0.00	0	--	2H	6W	
10.67	12.19	1.52	0.95	63	0.00	0	--	1H	6W	
12.19	13.72	1.53	1.42	93	0.00	0	--	2H	5W	
13.72	15.24	1.52	1.36	89	0.00	0	--	2H	5W	
15.24	16.76	1.52	1.41	93	0.00	0	--	2H	5W	
16.76	18.29	1.53	1.28	84	0.00	0	--	2H	5W	
18.29	19.81	1.52	1.31	86	0.00	0	--	3H	5W	
19.81	21.34	1.53	1.24	81	0.00	0	--	2H	4W	
21.34	22.86	1.52	1.45	95	0.16	11	--	2H	2W	small mm size galena vein in section
22.86	24.38	1.52	1.36	89	0.44	29	--	3H	2W	
24.38	25.91	1.53	1.4	92	0.00	0	--	3H	2W	no matching joint set
25.91	27.43	1.52	1.36	89	0.00	0	--	3H	1W	rubble
27.43	28.96	1.53	1.39	91	0.00	0	--	3H	1W	
28.96	30.48	1.52	1.3	86	0.00	0	--	2H	1W	clay altered sericite + pyrite section
30.48	32.00	1.52	1.24	82	0.29	19	--	2H	1W	small quartz vein with pyrite and possible galena in section, heavily altered to clay in and around edges. Entire section is very clay altered with little competent rock remaining
32.00	33.53	1.53	1.42	93	0.00	0	--	1H	1W	heavily altered to clay qfp
33.53	35.05	1.52	1.35	89	0.46	30	--	3H	1W	some clay alteration in qfp but pretty competent and siliceous
35.05	36.58	1.53	1.43	93	0.56	37	--	2H	2W	clay altered qfp
36.58	38.10	1.52	1.47	97	0.19	13	--	2H	2W	clay fault gouge on joint/ fracture surfaces

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
38.10	39.62	1.52	1.42	93	0.56	37	--	2H	2W	oxidized purple brown volcaniclastic/ basalt dyke (?)
39.62	41.15	1.53	1.42	93	0.44	29	--	2H	3W	
41.15	42.67	1.52	1.34	88	0.19	13	--	2H	3W	oxidized clay infill in joint spaces
42.67	44.20	1.53	1.44	94	0.13	8	--	2H	4W	clay fault gouge
44.20	45.72	1.52	1.51	99	0.97	64	--	2H	3W	
45.72	47.24	1.52	1.46	96	0.90	59	--	2H	3W	altered quartz feldspar porphyry with large cm size smokey quartz phenos
47.24	50.29	3.05	2.84	93	1.30	43	--	3H	2W	quartz feldspar porphyry dyke with cm size smokey grey quartz phenos
50.29	53.34	3.05	2.66	87	1.14	37	--	3H	2W	
53.34	56.39	3.05	2.69	88	0.26	9	--	2H	4W	No matching joint sets
56.39	59.44	3.05	2.72	89	0.69	23	--	2H	3W	
59.44	60.96	1.52	1.2	79	0.54	36	--	2H	4W	clay fault gouge/ breccia
60.96	64.01	3.05	1.65	54	0.00	0	--	1H	6W	clay
64.01	67.06	3.05	2.38	78	0.00	0	--	2H	4W	clay and rubble
67.06	68.58	1.52	1.39	91	0.16	11	--	2H	3W	
68.58	71.63	3.05	2.84	93	0.90	30	--	3H	3W	fractured rubble
71.63	74.68	3.05	2.74	90	0.12	4	--	3H	2W	alteration haloes around fractures and joints with clay infill and orange red brown oxide
74.68	76.20	1.52	1.35	89	0.00	0	--	3H	1W	
76.20	79.25	3.05	2.86	94	0.11	4	--	3H	1W	clay altered fracture zone, calcite infll on fracture surfaces
79.25	82.30	3.05	2.39	78	0.00	0	--	2H	1W	
82.30	83.82	1.52	1.46	96	0.24	16	--	3H	1W	
83.82	86.87	3.05	2.78	91	0.86	28	--	3H	1W	
86.87	89.92	3.05	2.83	93	0.81	27	--	4H	1W	
89.92	92.96	3.04	2.64	87	0.12	4	--	3H	1W	rubble zone
92.96	96.01	3.05	2.8	92	0.00	0	--	2H	1W	
96.01	97.54	1.53	1.36	89	0.00	0	--	2H	1W	
97.54	100.58	3.04	2.84	93	0.19	6	--	2H	1W	clay fault gouge/ breccia
100.58	103.63	3.05	2.98	98	1.23	40	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
103.63	106.68	3.05	2.89	95	0.10	3	--	3H	1W	
106.68	109.72	3.04	2.86	94	1.32	43	--	3H	1W	
109.72	112.78	3.06	2.92	95	1.02	33	--	4H	1W	
112.78	115.82	3.04	3	99	1.49	49	--	3H	1W	
115.82	118.87	3.05	2.89	95	0.98	32	--	3H	1W	
118.87	121.92	3.05	2.82	92	0.54	18	--	3H	1W	
121.92	124.97	3.05	2.88	94	0.90	30	--	4H	1W	
124.97	128.02	3.05	3.01	99	1.73	57	--	4H	1W	
128.02	131.06	3.04	2.84	93	1.03	34	--	3H	1W	small zone of clay fault gouge/ breccia
131.06	134.11	3.05	3	98	1.22	40	--	3H	1W	
134.11	137.16	3.05	2.93	96	1.33	44	--	2H	1W	clay altered fault zone with small cm wide galena + pyrite + sphalerite veins. No matching joint set, everything very clay altered and no real joints visible
137.16	140.21	3.05	2.83	93	1.47	48	--	2H	1W	
140.21	143.26	3.05	2.85	93	0.44	14	--	3H	1W	
143.26	146.30	3.04	2.82	93	1.34	44	--	3H	1W	
146.30	149.35	3.05	2.76	90	0.98	32	--	3H	1W	
149.35	152.40	3.05	2.91	95	1.65	54	--	3H	1W	
152.40	155.45	3.05	2.96	97	0.53	17	--	3H	1W	
155.45	158.50	3.05	2.78	91	1.74	57	--	3H	1W	
158.50	161.54	3.04	2.9	95	1.02	34	--	3H	1W	
161.54	164.59	3.05	2.91	95	1.75	57	--	3H	1W	12cm wide pyrite, sphalerite, galena vein
164.59	167.64	3.05	3.02	99	0.52	17	--	3H	1W	
167.64	170.69	3.05	2.98	98	1.21	40	--	3H	1W	
170.69	173.74	3.05	3.03	99	0.90	30	--	4H	1W	
173.74	176.78	3.04	3.02	99	1.85	61	--	4H	1W	
176.78	179.83	3.05	2.95	97	1.61	53	--	4H	1W	
179.83	182.88	3.05	2.99	98	0.88	29	--	3H	1W	
182.88	185.93	3.05	3.04	100	1.68	55	--	3H	1W	
185.93	188.98	3.05	2.99	98	1.14	37	--	4H	1W	
188.98	192.02	3.04	3	99	1.43	47	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
192.02	195.07	3.05	2.91	95	1.07	35	--	3H	1W	
195.07	198.12	3.05	2.86	94	0.26	9	--	3H	1W	clay fault gouge section
198.12	201.17	3.05	3.02	99	1.16	38	--	3H	1W	
201.17	204.22	3.05	2.94	96	1.22	40	--	3H	1W	
204.22	207.26	3.04	2.87	94	0.48	16	--	3H	1W	vein with substantial pyrite, sphalerite, galena and arseno mineralization
207.26	210.31	3.05	2.98	98	1.15	38	--	4H	1W	
210.31	213.36	3.05	2.97	97	0.85	28	--	3H	1W	
213.36	216.41	3.05	2.94	96	0.61	20	--	3H	1W	
216.41	219.46	3.05	2.97	97	0.84	28	--	3H	1W	
219.46	222.50	3.04	2.98	98	0.85	28	--	3H	1W	
222.50	225.55	3.05	3	98	0.46	15	--	4H	1W	
225.55	228.60	3.05	2.99	98	0.58	19	--	4H	1W	
228.60	230.12	1.52	1.45	95	0.00	0	--	3H	1W	
230.12	231.65	1.53	1.5	98	0.00	0	--	3H	1W	fracture zone
231.65	234.70	3.05	3.03	99	0.22	7	--	3H	1W	fracture zone
234.70	237.74	3.04	3.01	99	0.78	26	--	3H	1W	
237.74	240.79	3.05	3.03	99	1.30	43	--	4H	1W	
240.79	243.84	3.05	2.95	97	0.89	29	--	4H	1W	
243.84	246.89	3.05	3.03	99	0.78	26	--	2H	1W	
246.89	249.94	3.05	3.01	99	0.68	22	--	3H	1W	
249.94	252.98	3.04	3.04	100	1.33	44	--	4H	1W	
252.98	256.03	3.05	2.96	97	1.68	55	--	4H	1W	
256.03	259.08	3.05	2.99	98	1.59	52	--	4H	1W	
259.08	260.60	1.52	1.52	100	1.18	78	--	4H	1W	
260.60	263.65	3.05	3.02	99	1.36	45	--	4H	1W	
263.65	266.70	3.05	2.93	96	1.33	44	--	3H	1W	
266.70	269.75	3.05	2.98	98	0.80	26	--	3H	1W	
269.75	272.80	3.05	3.02	99	1.13	37	--	3H	1W	
272.80	275.84	3.04	3.03	100	0.80	26	--	3H	1W	
275.84	278.89	3.05	2.98	98	1.39	46	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
278.89	281.94	3.05	2.93	96	0.68	22	--	3H	1W	small cm size galena + pyrite veins in section
281.94	284.99	3.05	2.99	98	1.34	44	--	3H	1W	
284.99	288.04	3.05	3.03	99	0.87	29	--	3H	1W	fracture/ rubble zone
288.04	291.08	3.04	2.95	97	1.86	61	--	3H	1W	
291.08	294.13	3.05	3	98	1.51	50	--	3H	1W	
294.13	297.18	3.05	2.97	97	1.47	48	--	3H	1W	
297.18	300.23	3.05	2.99	98	0.88	29	--	3H	1W	
300.23	302.06	1.83	1.83	100	0.85	46	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	16.9	CAS	
2	18.15	OVB	
3	18.57	OVB	
4	34.01	OVB	
5	17.74	OVB	
6	17.79	OVB	
7	18.73	OVB	
8	18.77	OVB	
9	14.68	OVB	
10	18.13	OVB	
11	13.64	OVB	
12	0.196	OVB	soil
13	7.604	GRD	
14	6.446	GRD	
15	1.86	GRD	
16	0.614	GRD	
17	0.319	GRD	
18	0.785	GRD	
19	0.41	GRD	
20	14.86	GRD	
21	0.205	GRD	
22	0.373	GRD	
23	0.386	GRD	
24	0.338	GRD	
25	0.458	GRD	
26	0.298	GRD	
27	0.864	GRD	
28	0.377	GRD	
29	0.163	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
30	0.093	GRD	Sericite and pyrite section approximately 35cm long, mostly altered to clay
31	0.215	BXA	
32	0.143	BXA	
33	0.151	BXA	
34	0.197	BXA	
35	0.207	BXA	
36	0.269	BXA	
37	0.119	BXA	
38	0.155	QFP	
39	0.222	QFP	
40	0.292	QFP	
41	0.155	QFP	
42	0.175	QFP	
43	0.157	QFP	
44	0.21	QFP	
45	0.25	QFP	
46	0.343	QFP	
47	0.328	QFP	
48	0.174	QFP	
49	0.113	QFP	
50	0.412	GRD	
51	0.896	GRD	
52	5.491	GRD	
53	0.783	GRD	
54	1.153	GRD	
55	0.638	GRD	
56	0.312	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
57	1.264	GRD	
58	11.21	GRD	
59	0.739	GRD	
60	0.225	GRD	
61	0.674	GRD	
62	2.904	GRD	
63	0.374	GRD	
64	22.88	GRD	
65	7.855	GRD	
66	10.03	GRD	
67	0.227	GRD	
68	0.274	GRD	
69	1.392	GRD	
70	1.371	GRD	
71	0.493	GRD	
72	0.424	GRD	
73	9.192	GRD	
74	21.39	GRD	
75	18.12	GRD	
76	0.799	GRD	
77	2.771	GRD	
78	0.446	GRD	
79	7.431	GRD	
80	1.943	GRD	
80	2.441	GRD	
81	8.413	GRD	
81	8.821	GRD	
82	1.436	GRD	
83	0.509	GRD	
84	15.25	GRD	
85	0.27	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
86	0.668	GRD	
87	4.676	GRD	
88	1.053	GRD	
89	14.25	GRD	
90	21.45	GRD	
91	25.8	GRD	
92	22.91	GRD	
93	0.497	GRD	
94	6.653	GRD	
95	1.523	GRD	
96	0.503	GRD	
97	0.586	GRD	
98	0.233	BXA	
99	0.298	BXA	
100	0.234	BXA	
101	0.314	GRD	
102	0.369	GRD	
103	0.405	GRD	
104	0.301	GRD	
105	0.331	GRD	
106	0.548	GRD	
107	0.277	GRD	
108	0.298	GRD	
109	0.39	GRD	
110	0.358	GRD	
111	0.468	GRD	
112	5.937	GRD	
113	0.543	GRD	
114	0.298	GRD	
115	0.385	GRD	
116	0.649	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
117	22.04	GRD	
118	4.678	GRD	
119	0.377	GRD	
120	0.704	GRD	
121	18.83	GRD	
122	6.47	GRD	
123	20.75	GRD	
124	0.658	GRD	
125	10.57	GRD	
126	0.637	GRD	
127	0.3	GRD	
128	0.404	GRD	
129	0.299	GRD	
130	0.318	GRD	
131	0.406	GRD	
132	0.39	GRD	
133	0.812	GRD	
134	0.276	GRD	
135	0.339	BXA	
136	0.176	BXA	
137	0.758	BXA	
138	0.393	BXA	
139	0.282	BXA	
140	0.384	BXA	
141	0.425	GRD	
142	2.224	GRD	
143	0.436	GRD	
144	6.275	GRD	
145	0.23	GRD	
146	0.617	GRD	
147	0.425	GRD	
148	1.362	GRD	
149	11.37	GRD	
150	0.34	GRD	
151	3.521	GRD	
152	0.526	GRD	
153	0.378	QFP	
154	0.291	QFP	
155	0.328	QFP	
156	0.639	QFP	
157	0.194	GRD	
158	0.187	GRD	
159	3.41	GRD	
160	0.806	GRD	
161	3.104	GRD	
162	0.353	GRD	
163	0.734	GRD	
164	0.329	GRD	
165	0.615	QFP	
166	4.613	GRD	
167	31.22	GRD	
168	25.05	GRD	
169	30.36	GRD	
170	1.596	GRD	
171	35.51	GRD	
172	24.82	GRD	
173	25.51	GRD	
174	2.545	GRD	
175	0.215	GRD	
176	0.867	GRD	
177	24.92	GRD	
178	0.615	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
179	1.113	GRD	
180	25.65	GRD	
181	3.201	GRD	
182	0.367	GRD	
183	20.45	GRD	
184	0.331	GRD	
185	0.643	GRD	
186	18.56	GRD	
187	3.508	GRD	
188	28.53	GRD	
189	15.37	GRD	
190	3.152	GRD	
191	3.878	GRD	
192	0.411	GRD	
193	10.42	GRD	
194	0.355	GRD	
195	0.203	GRD	
196	0.337	BXA	
197	0.263	GRD	
198	0.114	GRD	
199	0.231	GRD	
200	0.585	GRD	
201	0.996	GRD	
202	1.149	GRD	
203	0.911	GRD	
204	9.73	GRD	
205	0.113	BXA	
206	0.203	BXA	
207	0.256	GRD	
208	0.3	GRD	
209	0.255	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
210	0.226	GRD	
211	0.242	GRD	
212	0.543	GRD	
213	4.404	GRD	
214	5.196	GRD	
215	24.83	GRD	
216	28.35	GRD	
217	0.886	GRD	
218	22.93	GRD	
219	31.1	GRD	
220	34.01	GRD	
221	35.62	GRD	
222	29.01	GRD	
223	2.9	GRD	
224	39.53	GRD	
225	38.32	GRD	
226	24.95	GRD	
227	1.083	GRD	
228	3.875	GRD	
229	8.287	GRD	
230	10.27	GRD	
231	26.1	GRD	
232	0.493	GRD	
233	0.655	GRD	
234	7.168	GRD	
235	0.401	GRD	
236	0.886	GRD	
237	0.794	GRD	
238	0.493	GRD	
239	0.857	GRD	
240	0.572	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
241	14.67	GRD	
242	0.723	GRD	
243	1.68	GRD	
244	0.346	GRD	
245	0.276	BXA	
246	0.39	BXA	
247	0.249	BXA	
248	0.182	GRD	
249	0.44	GRD	
250	13.34	GRD	
251	1.703	GRD	
252	0.424	GRD	
253	10.17	GRD	
254	4.219	GRD	
255	15.82	GRD	
256	28.72	GRD	
257	0.45	GRD	
258	30.9	GRD	
259	28.17	GRD	
260	17.49	GRD	
261	21.49	GRD	
262	27.9	GRD	
263	28.03	GRD	
264	24.58	GRD	
265	26.77	GRD	
266	21.25	GRD	
267	18.45	GRD	
268	24.02	GRD	
269	31.02	GRD	
270	36.25	GRD	
271	27.86	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
272	22.08	GRD	
273	24.16	GRD	
274	27.46	GRD	
275	31.64	GRD	
276	1.05	GRD	
277	12.59	GRD	
278	22.96	GRD	
279	0.904	GRD	
280	0.43	GRD	
281	0.638	GRD	
282	20.36	GRD	
283	0.663	GRD	
284	23.67	GRD	
285	24.84	GRD	
286	19.69	GRD	
287	24.21	GRD	
288	21.14	GRD	
289	7.693	GRD	
290	0.53	GRD	
291	0.611	GRD	
292	14.75	GRD	
293	20.24	GRD	
294	2.823	GRD	
295	13.03	GRD	
296	23.62	GRD	
297	24.18	GRD	
298	23.08	GRD	
299	16.17	GRD	
300	0.461	GRD	
301	14.11	GRD	
302	14.47	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W595746	☐	20-041	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595646	☐	20-034	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595753	☐	20-041	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595736	☐	20-038	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595720	☐	20-038	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595708	☐	20-038	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595696	☐	20-037	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595672	☐	20-037	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595666	☐	20-037	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595655	☐	20-034	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595759	☐	20-041	Low Grade	Klaza20 20-A	☐	☐	☐
19.63	21.13	1.50	GRD	1.00	67	W595642	☐	20-034	Low Grade		☐	☐	☐
21.13	21.63	0.50	GRD	0.50	100	B700736	☐	20-022	High Grade		☐	☐	☐
21.63	22.13	0.50	GRD	0.42	84	W595643	☐	20-034	Low Grade		☐	☐	☐
22.13	22.63	0.50	GRD	0.41	82	B700737	☐	20-022	High Grade		☐	☐	☐
22.63	23.80	1.17	GRD	1.01	86	W595644	☐	20-034	Low Grade		☐	☐	☐
23.80	24.30	0.50	GRD	0.48	96	W595645	☐	20-034	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
24.30	25.80	1.50	GRD	1.45	97	W595647	☐	20-034	Low Grade		☐	☐	☐
28.32	29.80	1.48	GRD	1.03	70	W595648	☐	20-034	Low Grade		☐	☐	☐
29.80	30.35	0.55	GRD	0.47	85	B700738	☐	20-022	High Grade		☐	☐	☐
30.35	31.05	0.70	GRD	0.61	87	W595649	☐	20-034	Low Grade		☐	☐	☐
31.05	31.55	0.50	BXA	0.47	94	B700739	☐	20-022	High Grade		☐	☐	☐
31.55	33.05	1.50	BXA	1.32	88	W595650	☐	20-034	Low Grade		☐	☐	☐
54.22	55.72	1.50	GRD	1.08	72	W595651	☐	20-034	Low Grade		☐	☐	☐
55.72	56.22	0.50	GRD	0.48	96	W595652	☐	20-034	Low Grade		☐	☐	☐
56.22	57.72	1.50	GRD	0.95	63	W595653	☐	20-034	Low Grade		☐	☐	☐
57.72	58.50	0.78	GRD	0.77	99	W595654	☐	20-034	Low Grade		☐	☐	☐
58.50	60.00	1.50	GRD	1.42	95	W595656	☐	20-034	Low Grade		☐	☐	☐
60.00	60.50	0.50	GRD	0.50	100	W595657	☐	20-034	Low Grade		☐	☐	☐
60.50	61.96	1.46	GRD	0.96	66	W595658	☐	20-034	Low Grade		☐	☐	☐
76.25	77.75	1.50	GRD	1.22	81	W595659	☐	20-034	Low Grade		☐	☐	☐
77.75	78.25	0.50	GRD	0.47	94	W595660	☐	20-034	Low Grade		☐	☐	☐
78.25	79.75	1.50	GRD	1.30	87	W595661	☐	20-037	Low Grade		☐	☐	☐
79.75	81.00	1.25	GRD	0.92	74	W595662	☐	20-037	Low Grade		☐	☐	☐
81.00	82.25	1.25	GRD	0.88	70	W595663	☐	20-037	Low Grade		☐	☐	☐
82.25	82.75	0.50	GRD	0.44	88	B700740	☐	20-022	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
82.75	83.25	0.50	GRD	0.50	100	W595664	☐	20-037	Low Grade		☐	☐	☐
83.25	83.75	0.50	GRD	0.43	86	W595665	☐	20-037	Low Grade		☐	☐	☐
83.75	85.25	1.50	GRD	1.32	88	W595667	☐	20-037	Low Grade		☐	☐	☐
96.20	97.70	1.50	GRD	1.35	90	W595668	☐	20-037	Low Grade		☐	☐	☐
97.70	98.95	1.25	GRD	1.25	100	W595669	☐	20-037	Low Grade		☐	☐	☐
98.95	100.22	1.27	BXA	1.21	95	W595670	☐	20-037	Low Grade		☐	☐	☐
100.22	101.72	1.50	BXA, GRD	1.50	100	W595671	☐	20-037	Low Grade		☐	☐	☐
101.72	102.70	0.98	GRD	0.98	100	W595673	☐	20-037	Low Grade		☐	☐	☐
102.70	103.75	1.05	GRD	0.87	83	W595674	☐	20-037	Low Grade		☐	☐	☐
103.75	104.25	0.50	GRD	0.50	100	W595675	☐	20-037	Low Grade		☐	☐	☐
104.25	105.00	0.75	GRD	0.62	83	W595676	☐	20-037	Low Grade		☐	☐	☐
105.00	105.50	0.50	GRD	0.43	86	W595677	☐	20-037	Low Grade		☐	☐	☐
105.50	106.00	0.50	GRD	0.40	80	W595678	☐	20-037	Low Grade		☐	☐	☐
105.50	106.00	0.50	GRD	0.40	80	W595679	☐	20-037	Low Grade		☐	☐	☑
106.00	106.50	0.50	GRD	0.50	100	W595680	☐	20-037	Low Grade		☐	☐	☐
106.50	107.50	1.00	GRD	1.00	100	W595681	☐	20-037	Low Grade		☐	☐	☐
107.50	108.00	0.50	GRD	0.40	80	W595682	☐	20-037	Low Grade		☐	☐	☐
108.00	109.00	1.00	GRD	0.91	91	W595683	☐	20-037	Low Grade		☐	☐	☐
109.00	109.80	0.80	GRD	0.79	99	W595684	☐	20-037	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
109.80	110.30	0.50	GRD	0.50	100	W595685	☐	20-037	Low Grade		☐	☐	☐
109.80	110.30	0.50	GRD	0.50	100	W595686	☐	20-037	Low Grade		☐	☑	☐
116.75	118.25	1.50	GRD	1.44	96	W595687	☐	20-037	Low Grade		☐	☐	☐
118.25	118.75	0.50	GRD	0.50	100	B700741	☐	20-036	High Grade		☐	☐	☐
118.75	120.15	1.40	GRD	1.19	85	W595688	☐	20-037	Low Grade		☐	☐	☐
120.15	120.65	0.50	GRD	0.46	92	W595689	☐	20-037	Low Grade		☐	☐	☐
120.65	122.15	1.50	GRD	1.37	91	W595690	☐	20-037	Low Grade		☐	☐	☐
125.30	126.80	1.50	GRD	1.50	100	W595691	☐	20-037	Low Grade		☐	☐	☐
126.80	127.30	0.50	GRD	0.50	100	W595692	☐	20-037	Low Grade		☐	☐	☐
127.30	128.70	1.40	GRD	1.36	97	W595693	☐	20-037	Low Grade		☐	☐	☐
128.70	130.15	1.45	GRD	1.30	90	W595694	☐	20-037	Low Grade		☐	☐	☐
130.15	130.65	0.50	GRD	0.45	90	W595695	☐	20-037	Low Grade		☐	☐	☐
130.65	132.15	1.50	GRD	1.41	94	W595697	☐	20-037	Low Grade		☐	☐	☐
132.15	133.50	1.35	GRD	1.26	93	W595698	☐	20-037	Low Grade		☐	☐	☐
133.50	135.00	1.50	GRD	1.31	87	W595699	☐	20-037	Low Grade		☐	☐	☐
135.00	135.50	0.50	BXA	0.50	100	B700742	☐	20-036	High Grade		☐	☐	☐
135.50	137.00	1.50	BXA	1.42	95	W595700	☐	20-037	Low Grade		☐	☐	☐
137.00	138.50	1.50	BXA	1.40	93	W595701	☐	20-038	Low Grade		☐	☐	☐
144.60	146.10	1.50	GRD	1.46	97	W595702	☐	20-038	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
146.10	147.60	1.50	GRD	1.04	69	W595703	☐	20-038	Low Grade		☐	☐	☐
147.60	148.10	0.50	GRD	0.48	96	W595704	☐	20-038	Low Grade		☐	☐	☐
148.10	149.60	1.50	GRD	1.40	93	W595705	☐	20-038	Low Grade		☐	☐	☐
149.60	150.50	0.90	GRD	0.80	89	W595706	☐	20-038	Low Grade		☐	☐	☐
150.50	151.45	0.95	GRD	0.89	94	W595707	☐	20-038	Low Grade		☐	☐	☐
151.45	151.95	0.50	GRD	0.49	98	B700743	☐	20-036	High Grade		☐	☐	☐
151.95	153.45	1.50	GRD	1.33	89	W595709	☐	20-038	Low Grade		☐	☐	☐
153.45	154.50	1.05	QFP	0.93	89	W595710	☐	20-038	Low Grade		☐	☐	☐
154.50	155.50	1.00	QFP	0.86	86	W595711	☐	20-038	Low Grade		☐	☐	☐
155.50	157.00	1.50	QFP	1.33	89	W595712	☐	20-038	Low Grade		☐	☐	☐
157.00	157.50	0.50	GRD	0.49	98	W595713	☐	20-038	Low Grade		☐	☐	☐
157.00	157.50	0.50	GRD	0.49	98	W595714	☐	20-038	Low Grade		☐	☐	☑
157.50	158.50	1.00	GRD	0.95	95	W595715	☐	20-038	Low Grade		☐	☐	☐
161.25	162.25	1.00	GRD	1.00	100	W595716	☐	20-038	Low Grade		☐	☐	☐
162.25	162.75	0.50	GRD	0.47	94	B700510	☐	20-011	High Grade		☐	☐	☐
162.25	162.75	0.50	GRD	0.47	94	B700511	☐	20-011	High Grade		☐	☐	☑
162.75	164.00	1.25	GRD	1.17	94	W595717	☐	20-038	Low Grade		☐	☐	☐
164.00	165.05	1.05	GRD	0.90	86	W595718	☐	20-038	Low Grade		☐	☐	☐
165.05	165.55	0.50	QFP	0.41	82	B700512	☐	20-011	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
165.55	167.05	1.50	GRD	1.23	82	W595719	☐	20-038	Low Grade		☐	☐	☐
172.75	174.25	1.50	GRD	1.48	99	W595721	☐	20-038	Low Grade		☐	☐	☐
174.25	174.75	0.50	GRD	0.47	94	W595722	☐	20-038	Low Grade		☐	☐	☐
174.75	175.25	0.50	GRD	0.47	94	W595723	☐	20-038	Low Grade		☐	☐	☐
175.25	175.75	0.50	GRD	0.49	98	B700513	☐	20-011	High Grade		☐	☐	☐
175.75	177.25	1.50	GRD	1.47	98	W595724	☐	20-038	Low Grade		☐	☐	☐
177.25	178.40	1.15	GRD	1.00	87	W595725	☐	20-038	Low Grade		☐	☐	☐
178.40	178.90	0.50	GRD	0.47	94	W595726	☐	20-038	Low Grade		☐	☐	☐
178.90	180.40	1.50	GRD	1.45	97	W595727	☐	20-038	Low Grade		☐	☐	☐
180.40	181.40	1.00	GRD	0.89	89	W595728	☐	20-038	Low Grade		☐	☐	☐
181.40	182.00	0.60	GRD	0.60	100	W595729	☐	20-038	Low Grade		☐	☐	☐
181.40	182.00	0.60	GRD	0.60	100	W595730	☐	20-038	Low Grade		☐	☑	☐
182.00	182.50	0.50	GRD	0.48	96	W595731	☐	20-038	Low Grade		☐	☐	☐
190.80	192.30	1.50	GRD	1.46	97	W595732	☐	20-038	Low Grade		☐	☐	☐
192.30	192.80	0.50	GRD	0.50	100	W595733	☐	20-038	Low Grade		☐	☐	☐
192.80	194.00	1.20	GRD	0.96	80	W595734	☐	20-038	Low Grade		☐	☐	☐
194.00	194.50	0.50	GRD	0.31	62	W595735	☐	20-038	Low Grade		☐	☐	☐
194.50	195.50	1.00	GRD	0.97	97	W595737	☐	20-038	Low Grade		☐	☐	☐
195.50	197.00	1.50	GRD	1.36	91	W595738	☐	20-038	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
203.35	204.85	1.50	GRD	1.25	83	W595739	☐	20-038	Low Grade		☐	☐	☐
204.85	205.15	0.30	GRD, BXA	0.30	100	B700514	☐	20-011	High Grade		☐	☐	☐
205.15	205.45	0.30	BXA	0.29	97	B700515	☐	20-011	High Grade		☐	☐	☐
205.45	205.95	0.50	BXA	0.40	80	W595740	☐	20-038	Low Grade		☐	☐	☐
205.95	206.45	0.50	BXA	0.47	94	W595741	☐	20-041	Low Grade		☐	☐	☐
206.45	207.95	1.50	GRD	1.22	81	W595742	☐	20-041	Low Grade		☐	☐	☐
207.95	209.30	1.35	GRD	1.35	100	W595743	☐	20-041	Low Grade		☐	☐	☐
209.30	209.60	0.30	GRD	0.29	97	B700516	☐	20-011	High Grade		☐	☐	☐
209.60	210.10	0.50	GRD	0.35	70	W595744	☐	20-041	Low Grade		☐	☐	☐
210.10	211.60	1.50	GRD	1.14	76	W595745	☐	20-041	Low Grade		☐	☐	☐
215.05	216.55	1.50	GRD	1.27	85	W595747	☐	20-041	Low Grade		☐	☐	☐
216.55	217.05	0.50	GRD	0.35	70	W595748	☐	20-041	Low Grade		☐	☐	☐
217.05	218.55	1.50	GRD	1.41	94	W595749	☐	20-041	Low Grade		☐	☐	☐
227.00	228.50	1.50	GRD	1.26	84	W595750	☐	20-041	Low Grade		☐	☐	☐
228.50	229.00	0.50	GRD	0.44	88	W595751	☐	20-041	Low Grade		☐	☐	☐
229.00	230.50	1.50	GRD	1.19	79	W595752	☐	20-041	Low Grade		☐	☐	☐
233.50	235.00	1.50	GRD	1.29	86	W595754	☐	20-041	Low Grade		☐	☐	☐
235.00	235.50	0.50	GRD	0.49	98	W595755	☐	20-041	Low Grade		☐	☐	☐
235.50	237.00	1.50	GRD	1.22	81	W595756	☐	20-041	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
240.75	242.35	1.60	GRD	1.45	91	W595757	☐	20-041	Low Grade		☐	☐	☐
242.35	242.75	0.40	GRD, VEN	0.40	100	B700744	☐	20-036	High Grade		☐	☐	☐
242.75	244.25	1.50	GRD	1.25	83	W595758	☐	20-041	Low Grade		☐	☐	☐
244.25	245.75	1.50	GRD	1.44	96	W595760	☐	20-041	Low Grade		☐	☐	☐
245.75	247.25	1.50	BXA	1.31	87	W595761	☐	20-041	Low Grade		☐	☐	☐
247.25	248.75	1.50	BXA	1.47	98	W595762	☐	20-041	Low Grade		☐	☐	☐
248.75	250.15	1.40	GRD	1.25	89	W595763	☐	20-041	Low Grade		☐	☐	☐
250.15	251.65	1.50	GRD	1.50	100	W595764	☐	20-041	Low Grade		☐	☐	☐
251.65	252.15	0.50	GRD	0.50	100	W595765	☐	20-041	Low Grade		☐	☐	☐
251.65	252.15	0.50	GRD	0.50	100	W595766	☐	20-041	Low Grade		☐	☐	☑
252.15	253.65	1.50	GRD	1.46	97	W595767	☐	20-041	Low Grade		☐	☐	☐
258.95	260.45	1.50	GRD	1.50	100	W595768	☐	20-041	Low Grade		☐	☐	☐
260.45	260.95	0.50	GRD	0.49	98	W595769	☐	20-041	Low Grade		☐	☐	☐
260.95	262.45	1.50	GRD	1.47	98	W595770	☐	20-041	Low Grade		☐	☐	☐
277.30	278.80	1.50	GRD	1.44	96	W595771	☐	20-041	Low Grade		☐	☐	☐
278.80	279.30	0.50	GRD	0.49	98	W595772	☐	20-041	Low Grade		☐	☐	☐
279.30	280.80	1.50	GRD	1.35	90	W595773	☐	20-041	Low Grade		☐	☐	☐
280.80	281.30	0.50	GRD	0.49	98	W595774	☐	20-041	Low Grade		☐	☐	☐
280.80	281.30	0.50	GRD	0.49	98	W595775	☐	20-041	Low Grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
281.30	282.80	1.50	GRD	1.44	96	W595776	☐	20-041	Low Grade		☐	☐	☐
298.20	299.70	1.50	GRD	1.30	87	W595777	☐	20-041	Low Grade		☐	☐	☐
299.70	300.20	0.50	GRD	0.49	98	W595778	☐	20-041	Low Grade		☐	☐	☐
300.20	300.70	0.50	GRD	0.50	100	W595779	☐	20-041	Low Grade		☐	☐	☐
300.70	302.06	1.36	GRD	1.33	98	W595780	☐	20-041	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-034	W595646	0.00	0.00	0.62	270	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-034	W595655	0.00	0.00	0.01	30	☐	☐	☑	☐	
20-037	W595666	0.00	0.00	2.88	90	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-037	W595672	0.00	0.00	0.60	130	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-037	W595696	0.00	0.00	0.01	30	☐	☐	☑	☐	
20-038	W595708	0.00	0.00	0.64	240	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-038	W595720	0.00	0.00	2.92	90	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-038	W595736	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-041	W595746	0.00	0.00	2.81	280	☐	☐	☐	☑ Klaza2020-B	Klaza A
20-041	W595753	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-041	W595759	0.00	0.00	0.63	190	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-034	W595642	19.63	21.13	0.10	830	☐	☐	☐	☐	
20-022	B700736	21.13	21.63	6.28	50	☐	☐	☐	☐	
20-034	W595643	21.63	22.13	0.13	1350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-022	B700737	22.13	22.63	0.83	440	☐	☐	☐	☐	
20-034	W595644	22.63	23.80	0.02	1210	☐	☐	☐	☐	
20-034	W595645	23.80	24.30	0.17	1310	☐	☐	☐	☐	
20-034	W595647	24.30	25.80	0.01	1610	☐	☐	☐	☐	
20-034	W595648	28.32	29.80	0.02	820	☐	☐	☐	☐	
20-022	B700738	29.80	30.35	0.97	270	☐	☐	☐	☐	
20-034	W595649	30.35	31.05	0.08	750	☐	☐	☐	☐	
20-022	B700739	31.05	31.55	0.28	180	☐	☐	☐	☐	
20-034	W595650	31.55	33.05	0.00	1960	☐	☐	☐	☐	
20-034	W595651	54.22	55.72	0.01	2560	☐	☐	☐	☐	
20-034	W595652	55.72	56.22	0.12	1430	☐	☐	☐	☐	
20-034	W595653	56.22	57.72	0.01	2440	☐	☐	☐	☐	
20-034	W595654	57.72	58.50	0.01	2150	☐	☐	☐	☐	
20-034	W595656	58.50	60.00	0.07	1240	☐	☐	☐	☐	
20-034	W595657	60.00	60.50	1.89	330	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-034	W595658	60.50	61.96	0.39	1880	☐	☐	☐	☐	
20-034	W595659	76.25	77.75	0.01	2360	☐	☐	☐	☐	
20-034	W595660	77.75	78.25	0.39	1030	☐	☐	☐	☐	
20-037	W595661	78.25	79.75	0.01	2070	☐	☐	☐	☐	
20-037	W595662	79.75	81.00	0.02	2140	☐	☐	☐	☐	
20-037	W595663	81.00	82.25	0.02	2280	☐	☐	☐	☐	
20-022	B700740	82.25	82.75	0.64	240	☐	☐	☐	☐	
20-037	W595664	82.75	83.25	0.42	170	☐	☐	☐	☐	
20-037	W595665	83.25	83.75	0.05	1320	☐	☐	☐	☐	
20-037	W595667	83.75	85.25	0.02	2130	☐	☐	☐	☐	
20-037	W595668	96.20	97.70	0.01	2180	☐	☐	☐	☐	
20-037	W595669	97.70	98.95	0.29	680	☐	☐	☐	☐	
20-037	W595670	98.95	100.22	0.07	600	☐	☐	☐	☐	
20-037	W595671	100.22	101.72	0.01	1150	☐	☐	☐	☐	
20-037	W595673	101.72	102.70	0.02	1360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-037	W595674	102.70	103.75	0.29	1500	☐	☐	☐	☐	
20-037	W595675	103.75	104.25	0.16	880	☐	☐	☐	☐	
20-037	W595676	104.25	105.00	0.08	1160	☐	☐	☐	☐	
20-037	W595677	105.00	105.50	0.04	1040	☐	☐	☐	☐	
20-037	W595678	105.50	106.00	0.03	1090	☐	☐	☐	☐	
20-037	W595679	105.50	106.00	0.02	2190	☐	☑	☐	☐	
20-037	W595680	106.00	106.50	0.07	1000	☐	☐	☐	☐	
20-037	W595681	106.50	107.50	0.15	790	☐	☐	☐	☐	
20-037	W595682	107.50	108.00	0.01	830	☐	☐	☐	☐	
20-037	W595683	108.00	109.00	0.01	1390	☐	☐	☐	☐	
20-037	W595684	109.00	109.80	0.19	830	☐	☐	☐	☐	
20-037	W595685	109.80	110.30	0.04	950	☐	☐	☐	☐	
20-037	W595686	109.80	110.30	0.03	720	☑	☐	☐	☐	
20-037	W595687	116.75	118.25	0.01	2250	☐	☐	☐	☐	
20-036	B700741	118.25	118.75	0.70	350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-037	W595688	118.75	120.15	0.02	1880	☐	☐	☐	☐	
20-037	W595689	120.15	120.65	0.27	250	☐	☐	☐	☐	
20-037	W595690	120.65	122.15	0.01	2230	☐	☐	☐	☐	
20-037	W595691	125.30	126.80	0.01	2380	☐	☐	☐	☐	
20-037	W595692	126.80	127.30	0.04	1200	☐	☐	☐	☐	
20-037	W595693	127.30	128.70	0.01	1760	☐	☐	☐	☐	
20-037	W595694	128.70	130.15	0.03	950	☐	☐	☐	☐	
20-037	W595695	130.15	130.65	0.16	700	☐	☐	☐	☐	
20-037	W595697	130.65	132.15	0.03	1120	☐	☐	☐	☐	
20-037	W595698	132.15	133.50	0.03	2570	☐	☐	☐	☐	
20-037	W595699	133.50	135.00	0.01	2010	☐	☐	☐	☐	
20-036	B700742	135.00	135.50	4.75	250	☐	☐	☐	☐	
20-037	W595700	135.50	137.00	0.02	940	☐	☐	☐	☐	
20-038	W595701	137.00	138.50	0.26	580	☐	☐	☐	☐	
20-038	W595702	144.60	146.10	0.03	1730	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-038	W595703	146.10	147.60	0.12	1910	☐	☐	☐	☐	
20-038	W595704	147.60	148.10	0.61	100	☐	☐	☐	☐	
20-038	W595705	148.10	149.60	0.03	1980	☐	☐	☐	☐	
20-038	W595706	149.60	150.50	0.05	1720	☐	☐	☐	☐	
20-038	W595707	150.50	151.45	0.09	1520	☐	☐	☐	☐	
20-036	B700743	151.45	151.95	1.46	30	☐	☐	☐	☐	
20-038	W595709	151.95	153.45	0.01	1800	☐	☐	☐	☐	
20-038	W595710	153.45	154.50	0.00	1560	☐	☐	☐	☐	
20-038	W595711	154.50	155.50	0.00	1480	☐	☐	☐	☐	
20-038	W595712	155.50	157.00	0.00	1750	☐	☐	☐	☐	
20-038	W595713	157.00	157.50	1.68	150	☐	☐	☐	☐	
20-038	W595714	157.00	157.50	1.79	140	☐	☑	☐	☐	
20-038	W595715	157.50	158.50	0.24	350	☐	☐	☐	☐	
20-038	W595716	161.25	162.25	0.01	1940	☐	☐	☐	☐	
20-011	B700510	162.25	162.75	1.54	320	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	B700511	162.25	162.75	1.88	120	☐	☑	☐	☐	
20-038	W595717	162.75	164.00	0.01	1300	☐	☐	☐	☐	
20-038	W595718	164.00	165.05	0.01	1190	☐	☐	☐	☐	
20-011	B700512	165.05	165.55	1.05	110	☐	☐	☐	☐	
20-038	W595719	165.55	167.05	0.01	1540	☐	☐	☐	☐	
20-038	W595721	172.75	174.25	0.01	2100	☐	☐	☐	☐	
20-038	W595722	174.25	174.75	0.42	420	☐	☐	☐	☐	
20-038	W595723	174.75	175.25	0.04	340	☐	☐	☐	☐	
20-011	B700513	175.25	175.75	1.19	430	☐	☐	☐	☐	
20-038	W595724	175.75	177.25	0.03	1520	☐	☐	☐	☐	
20-038	W595725	177.25	178.40	0.01	1440	☐	☐	☐	☐	
20-038	W595726	178.40	178.90	0.08	850	☐	☐	☐	☐	
20-038	W595727	178.90	180.40	0.01	1510	☐	☐	☐	☐	
20-038	W595728	180.40	181.40	0.01	2110	☐	☐	☐	☐	
20-038	W595729	181.40	182.00	0.01	660	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-038	W595730	181.40	182.00	0.00	810	☑	☐	☐	☐	1/4 duplicate
20-038	W595731	182.00	182.50	0.09	640	☐	☐	☐	☐	
20-038	W595732	190.80	192.30	0.01	1090	☐	☐	☐	☐	
20-038	W595733	192.30	192.80	3.13	90	☐	☐	☐	☐	
20-038	W595734	192.80	194.00	0.01	1400	☐	☐	☐	☐	
20-038	W595735	194.00	194.50	0.15	500	☐	☐	☐	☐	
20-038	W595737	194.50	195.50	0.01	310	☐	☐	☐	☐	
20-038	W595738	195.50	197.00	0.05	1220	☐	☐	☐	☐	
20-038	W595739	203.35	204.85	0.01	1820	☐	☐	☐	☐	
20-011	B700514	204.85	205.15	2.55	30	☐	☐	☐	☐	
20-011	B700515	205.15	205.45	2.95	130	☐	☐	☐	☐	
20-038	W595740	205.45	205.95	1.90	140	☐	☐	☐	☐	
20-041	W595741	205.95	206.45	1.34	180	☐	☐	☐	☐	
20-041	W595742	206.45	207.95	0.10	520	☐	☐	☐	☐	
20-041	W595743	207.95	209.30	0.03	440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-011	B700516	209.30	209.60	7.49	100	☐	☐	☐	☐	
20-041	W595744	209.60	210.10	0.21	490	☐	☐	☐	☐	
20-041	W595745	210.10	211.60	0.03	620	☐	☐	☐	☐	
20-041	W595747	215.05	216.55	0.01	2220	☐	☐	☐	☐	
20-041	W595748	216.55	217.05	0.08	1220	☐	☐	☐	☐	
20-041	W595749	217.05	218.55	0.04	1760	☐	☐	☐	☐	
20-041	W595750	227.00	228.50	0.03	1530	☐	☐	☐	☐	
20-041	W595751	228.50	229.00	0.69	230	☐	☐	☐	☐	
20-041	W595752	229.00	230.50	0.01	2240	☐	☐	☐	☐	
20-041	W595754	233.50	235.00	0.01	1740	☐	☐	☐	☐	
20-041	W595755	235.00	235.50	0.86	880	☐	☐	☐	☐	
20-041	W595756	235.50	237.00	0.19	770	☐	☐	☐	☐	
20-041	W595757	240.75	242.35	0.01	1550	☐	☐	☐	☐	
20-036	B700744	242.35	242.75	59.80	50	☐	☐	☐	☐	
20-041	W595758	242.75	244.25	0.01	1130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-041	W595760	244.25	245.75	0.01	1190	☐	☐	☐	☐	
20-041	W595761	245.75	247.25	0.01	1000	☐	☐	☐	☐	
20-041	W595762	247.25	248.75	0.02	900	☐	☐	☐	☐	
20-041	W595763	248.75	250.15	0.01	1610	☐	☐	☐	☐	
20-041	W595764	250.15	251.65	0.01	1820	☐	☐	☐	☐	
20-041	W595765	251.65	252.15	0.15	910	☐	☐	☐	☐	
20-041	W595766	251.65	252.15	0.16	900	☐	☑	☐	☐	
20-041	W595767	252.15	253.65	0.02	1860	☐	☐	☐	☐	
20-041	W595768	258.95	260.45	0.01	2330	☐	☐	☐	☐	
20-041	W595769	260.45	260.95	0.60	170	☐	☐	☐	☐	
20-041	W595770	260.95	262.45	0.02	1810	☐	☐	☐	☐	
20-041	W595771	277.30	278.80	0.01	2380	☐	☐	☐	☐	
20-041	W595772	278.80	279.30	0.21	460	☐	☐	☐	☐	
20-041	W595773	279.30	280.80	0.05	1550	☐	☐	☐	☐	
20-041	W595774	280.80	281.30	0.14	690	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-041	W595775	280.80	281.30	0.13	750	☑	☐	☐	☐	
20-041	W595776	281.30	282.80	0.01	2780	☐	☐	☐	☐	
20-041	W595777	298.20	299.70	0.01	2360	☐	☐	☐	☐	
20-041	W595778	299.70	300.20	0.04	1470	☐	☐	☐	☐	
20-041	W595779	300.20	300.70	0.03	1400	☐	☐	☐	☐	
20-041	W595780	300.70	302.06	0.01	2320	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
12.50	22.48	FT	42	90	NUL	1	Fault zone that is predominantly ruble with some minor gouge. This fault is at the top of the hole. There are two different sulphide veins in this fault zone - near the end of the fault.			
								Gn	0.1	BL
								Py	0.1	BL
21.35	21.45	VN	37	50	NUL	1	Quartz / pyrite vein.			
								Py	7	BL
22.41	22.45	VN	37	70	NUL	1	Galena sulphide vein.			
								Gn	5	BL
26.91	30.57	FT	42	50	NUL	1	Fault zone with two large gouge zones one - 13 cm wide and the other one is 49 cm wide. The gouge in the last interval is "coated" with pyrite.			
								Py	10	DI
30.57	37.36	BX	34	-	NUL	1	Brecciated QFP dyke. Gouge is ocurring along fracture surfaces.			
40.14	40.22	GO	34	70	NUL	1	Gouge zone seperating two different dykes.			
42.22	43.76	BX	34	70	NUL	1	Brecciated dyke with gouge along fracture surfaces.			
49.00	49.39	FO	49	85	NUL	1	Section of foliated dyke at the margin.			
55.93	55.94	VT	37	70	NUL	1	Quartz vein with pyrite and galena. Galena is weathered.			
								Py	0.5	BL
								Gn	0.3	BL
58.61	66.72	FT	42	50	NUL	1	Large fault zone with a large amount of gouge - 20%.			
72.08	81.96	FT	42	-	NUL	1	Large fault zone - predominantly rubble.			
82.27	83.55	VN	37	-	NUL	6	Zone of quartz/ sulphide veining the sulphides are predominantly pyrite but there is also some trace sphalerite. Veins are 0.5 cm wide to 2 cm wide.			
								Py	0.5	BL
90.30	97.01	FT	42	40	NUL	1	Large fault zone with rubble and minor gouge as well as competent core inbetween.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
97.33	100.22	BX	34	-	NUL	1	Breccia zone.			
103.95	103.96	ST		55	NUL	1	Quartz / pyrite and galena stringer that is 4 mm wide.			
								Py	0.5	BL
								Gn	0.1	BL
104.38	104.85	BX	34	50	NUL	1	Breccia zone with quartz veining locally with sulphdies - pyrite and sphalerite.			
								Py	0.1	BL
								Sp	0.1	BL
104.85	110.97	VT	37	-	NUL	25	Zone of quartz/ sulphide stringers to veins. Quart is light grey to white in color and the sulpides are pyrite and sphalerite.			
								Py	0.1	BL
								Sp	0.1	BL
118.43	118.58	VN	37	80	NUL	1	Quartz/ sulphide veining. Milky white quartz with blebby pyrite. We also see some gouge and brecciation in this vein.			
								Py	5	BL
120.33	120.52	BX	34	90	NUL	1	Breccia zone with quartz/ sulphide veining. Light grey and white quartz with pyrite and some trace spalerite.			
								Py	0.5	BL
								Sp	0.1	BL
127.00	127.08	VT	37	90	NUL	2	1 quartz veinlet and 1 vein - 4 mm wide and 3 cm wide. The veins are white and light grey with blebby pyrite, sphalerite and galena.			
								Py	0.5	BL
								Gn	0.1	BL
								Sp	0.3	BL
129.19	130.80	BX	34	75	NUL	1	Breccia and veining zone. Only one vein in this interval has mineralization - 130.34 - 130.38 m. Vein has light grey glassy and white quartz with pyrite, galena and spalerite.			
								Py	0.1	BL
								Gn	0.1	BL
								Sp	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
134.39	140.98	BX	34	-	NUL	1	Breccia and veining zone. At 135.10 - 135.39 m there is one large quartz/ sulphide vein and a re-lithified breccia zone with sulphides. Sulphides are pyrite, galena, sphalerite, arsenopyrite and chalcopyrite. There is also a gouge zone with pyrite at 137.16 - 137.21 m.			
								Py	1	BL
								Gn	0.5	BL
								Sp	0.5	BL
								Cp	0.1	BL
								As	0.5	BL
145.57	145.58	VT	37	75	NUL	1	Quartz/ sulphide vein - white/ grey quartz with pyrite and galena.			
								Py	0.3	BL
								Gn	0.3	BL
147.82	147.86	VN	37	60	NUL	1	Quartz / sulphide vein with grey and white quartz with pyrite in the center of the vein. There is brecciation at the end of the vein with gouge.			
								Py	4	BL
148.07	149.08	VT	37	50	NUL	1	0.5 cm wide quartz/ sulphide veinlet that is white in color with pyrite, sphalerite and chalcopyrite.			
								Cp	0.1	BL
								Py	1	BL
								Sp	0.5	BL
151.52	151.77	VN	37	60	NUL	1	Quartz - light grey / white with pyrite - blebby and light green sericite alteration.			
								Py	8	BL
151.77	152.10	BX	34	80	NUL	1	Weak brecciation with gouge along fracture surfaces.			
152.10	156.19	DY	37	70	NUL	1	QFP dyke with local strong pervasive hematite alteration.			
157.22	157.27	VN	37	-	NUL	1	Quartz / pyrite vein. Blebby pyrite.			
								Py	3	BL
158.03	158.04	VT	37	50	NUL	1	Pyrite veinlet with some trace chalcopyrite with sericite alteration.			
								Py	1	BL
								Cp	0.1	BL
162.41	162.54	VN	37	90	NUL	1	White and light quartz with blebby pyrite, sphalerite and galena.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2.5	BL
								Gn	1	BL
								Sp	1	BL
164.24	165.11	DY	37	60	NUL	1	QFP dyke - rubbled at the upper contact and starting to be brecciated at the lower contact.			
165.11	165.44	BX	34	65	NUL	1	Breccia zone with a sulphide vein inside it.			
165.34	164.40	VN	37	90	NUL	1	Sulphide/ quartz vein inside a breccia zone with blebby sulphides. Pyrite, galena and sphalerite.			
								Gn	1	BL
								Sp	1	BL
								Py	3	BL
174.50	174.53	VN	37	50	NUL	1	Quartz / sulphide vein. Dark grey and light grey quartz with blebby pyrite, sphalerite and weathered galena?			
								Py	0.3	BL
								Sp	0.1	BL
175.53	175.59	VN	37	40	NUL	1	Quartz / sulphide vein. Dark grey with white quartz. Pyrite, galena and arsenopyrite are occurring in the vein all blebby.			
								Py	1.5	BL
								Gn	0.3	BL
								As	0.1	BL
178.56	178.59	VN	37	35	NUL	1	Quartz / sulphide vein. Dark grey with white quartz. Appears brecciated and broken up. Blebby pyrite and sphalerite occur at the selvage of the vein.			
								Py	1	BL
								Sp	0.5	BL
182.20	182.21	VN	37	40	NUL	1	Quartz / sulphide vein. White and grey quartz with blebby pyrite.			
								Py	0.5	BL
185.18	185.20	VN	37	30	NUL	1	Quartz sulphide vein. Light grey quartz with strong silvery green sericite alteration. Pyrite, galena and sphalerite all occurr as blebby.			
								Sp	0.1	BL
								Py	3	BL
								Gn	0.1	BL
192.40	192.68	BX	34	-	NUL	1	Broken up weakly brecciated zone with sulphides occurring disseminated as well as locally clustered.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	0.1	BL
								Py	0.5	BL
								As	0.1	BL
194.21	194.21	VT	37	50	NUL	1	A sulphide veinlet that is made up of pyrite, spalerite, arsenopyrite and galena. Veinlet is 0.5 cm wide.			
								Py	0.3	BL
								Sp	0.5	BL
								Gn	0.1	BL
								As	0.1	BL
195.20	196.73	BX	34	-	NUL	1	Weakly brecciated zone with gouge along the fracture surfaces.			
204.85	206.38	VN	37	75	NUL	1	Large quartz/ sulphide veining zone. Light grey to dark grey to nearly black quartz with blebby pyrite, galena, chalcopyrite and sphalerite. Locally there is gouge zones 4 - 5 cm wide. Calcite is infilling fractures throughout this interval.			
								Py	5	BL
								Cp	0.1	BL
								Gn	0.1	BL
								Sp	0.1	BL
209.35	209.58	VN	37	80	NUL	1	Milky white and dark grey quartz with pyrite, galena, sphalerite and chalcopyrite.			
								Py	3	BL
								Cp	0.1	BL
								Sp	0.5	BL
								Gn	0.5	BL
229.30	234.53	FT	42	40	NUL	1	Fault zone with rubble.			
242.43	242.63	VN	37	80	NUL	2	Two quartz / sulpide veins in this interval. White and light grey quartz with pyrite, arsenopyrite, chalcopyrite and galena. All sulphides are occurring blebby. There are two different veins in this zone the first one is 9 cm wide and the second one is 7 cm wide. Sulphides are occurring together.			
								Py	6	BL
								As	1	BL
								Cp	1	BL
								Gn	1.5	BL
244.69	247.66	BX	34	45	NUL	1	Breccia zone with local zones of strong gouge with clasts floating in the gouge.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
250.10	250.45	DY	37	40	NUL	3	3 small apalite? Dykes that are fine grained and are rusty brown in color.			
251.88	251.95	VN	37	60	NUL	1	Quartz vein with some minor gouge at the end of the vein. The vein is light to dark grey in color with fine grained to blebby pyrite. There is also some patchy tan to buff colored carbonate alteration (ankerite? - reacts slowly to acid).			
260.50	260.51	VN	37	75	NUL	1	Quartz / sulphide vein - with white and grey quartz with blebby pyrite and some trace galena and sphalerite. The pyrite is dominantly in the middle of the vein.			
260.61	260.62	VN	37	80	NUL	1	White and grey quartz with blebby pyrite and trace galena.			
260.73	260.74	VN	37	80	NUL	1	White quartz vein with blebby pyrite and sphalerite.			
								Py	1	BL
								Sp	1	BL
265.33	265.58	DY	37	30	NUL	1	Apalite? Dyke. Fine grained with sharp contacts and salmon to pink in color.			
281.15	281.16	VN	37	90	NUL	1	Quartz / sulphide vein. Light grey and white quartz with blebby galena and sphalerite in the center of the vein as well as there is a pyrite stringer close to this vein.			
								Py	0.5	BL
								Gn	1	BL
								Sp	1	BL
297.08	297.12	VN	37	90	NUL	1	Quartz / suphide vein with light grey to white quartz with bleby pyrite in the center of the vein as well as galena and sphalerite.			
								Py	4	BL
								Gn	0.1	BL
								Sp	0.1	BL
299.81	299.88	VN	37	70	NUL	1	Quartz / sulphide vein. Milky white to light grey quartz with blebby pyrite and galena around the vein selvage.			
								Py	0.5	BL
								Gn	0.1	BL
300.38	300.39	VN	37	60	NUL	1	Quartz/ sulphide vein. Milky white with blebby sphalerite, pyrite and galena.			
								Gn	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.1	BL
								Sp	0.5	BL

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384065	6887675	1188	409.96

ZONE: Eastern Klaza

SECTION:

HOLE: KL -20-481

CLAIM: YA86338

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 21.34m, Out

Drilling Dates: Sep 19 - Sep 23, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Kelly Porphyry

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.3	1.3	CAS
1.3	12.19	10.89	OVB
12.19	24.7	12.51	QFP
24.7	34	9.3	GRD
34	49.6	15.6	GRD
49.6	52.1	2.5	QFP
52.1	57	4.9	GRD
57	96.85	39.85	GRD
96.85	104.15	7.3	GRD
104.15	112.82	8.67	GRD
112.82	113.15	0.33	QFP
113.15	114.85	1.7	GRD
114.85	116.2	1.35	GRD
116.2	169.66	53.46	GRD
169.66	170.12	0.46	QFP
170.12	178.67	8.55	GRD

SAMPLES	
Numbers:	R499479 to R499500, W595916 to W595950, W596301 to W596350, W596601 to W596628, W599290 to W599300, W599984 to W600000
Total:	163
Batch:	029, 032, 035, 039, 040, 042
Certificates:	WH20224754, WH20224780, WH20224797, WH20226262, WH20226265, WH20226272

COMMENTS

Porphyry exploration hole in placer pit. 3m sample intervals throughout.
Handheld GPS accuracy of 1.5m

178.67	186	7.33	QFP
186	202.1	16.1	GRD
202.1	205.1	3	QFP
205.1	207.33	2.23	GRD
207.33	207.9	0.57	QFP
207.9	214.4	6.5	GRD
214.4	231.7	17.3	QFP
231.7	243.55	11.85	QFP
243.55	260.63	17.08	QFP
260.63	262	1.37	GRD
262	270.03	8.03	QFP
270.03	277	6.97	GRD
277	285.75	8.75	GRD
285.75	286.15	0.4	QFP
286.15	308.65	22.5	QFP
308.65	349.4	40.75	GRD
349.4	365.17	15.77	QFP
365.17	409.96	44.79	GRD

Box Log

KL -20-481

Klaza
astern Klaza Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.3	7.62
2	7.62	15.6
3	15.6	18.87
4	18.87	21.68
5	21.68	24.38
6	24.38	27.16
7	27.16	30
8	30	32.61
9	32.61	35.28
10	35.28	38.1
11	38.1	40.66
12	40.66	43.54
13	43.54	46.44
14	46.44	49.41
15	49.41	52.34
16	52.34	55.41
17	55.41	58.27
18	58.27	60.96
19	60.96	63.77
20	63.77	66.47
21	66.47	69.65
22	69.65	72.73
23	72.73	75.87
24	75.87	79.25
25	79.25	82.3
26	82.3	85.54
27	85.54	88.65
28	88.65	89.92
29	89.92	94.18
30	94.18	98.51
31	98.51	102.77
32	102.77	106.88
33	106.88	111.12
34	111.12	115.41
35	115.41	119.58
36	119.58	123.64
37	123.64	127.68
38	127.68	131.72
39	131.72	136.16
40	136.16	140.5
41	140.5	144.69
42	144.69	149.05
43	149.05	153.23
44	153.23	157.61
45	157.61	161.87
46	161.87	166.1
47	166.1	170.44
48	170.44	174.77
49	174.77	179.1
50	179.1	182.48
51	182.48	187.89
52	187.89	191
53	191	195.21
54	195.21	199.53
55	199.53	203.39
56	203.39	207.17
57	207.17	211.03
58	211.03	214.65
59	214.65	218.55
60	218.55	222.5
61	222.5	226.48
62	226.48	230.8
63	230.8	235.35
64	235.35	239.35
65	239.35	242.73
66	242.73	246.61
67	246.61	250.74
68	250.74	254.56
69	254.56	258.54
70	258.54	262.33
71	262.33	266.48
72	266.48	270.03
73	270.03	274
74	274	278.14
75	278.14	282.41
76	282.41	286.72
77	286.72	290.76
78	290.76	294.82
79	294.82	298.27
80	298.27	302
81	302	306.25
82	306.25	310.25
83	310.25	314.59
84	314.59	318.69
85	318.69	322.93
86	322.93	327.27
87	327.27	331.45
88	331.45	335.64
89	335.64	339.85
90	339.85	343.91

Box Number	From (m)	To (m)
91	343.91	348.1
92	348.1	351.8
93	351.8	355.31
94	355.31	358.85
95	358.85	362.21
96	362.21	365.81
97	365.81	369.67
98	369.67	373.73
99	373.73	377.75
100	377.75	381.67
101	381.67	385.57
102	385.57	389.56
103	389.56	393.56
104	393.56	397.48
105	397.48	401.5
106	401.5	405.45
107	405.45	409.51
108	409.51	409.96

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-481									
	50.31	11.5	HTW	QFP	2112.2	1344.8	4.77	2.8	QFP dyke
	60.29	9.5	HTW	GRD	1216.2	828.6	3.33	3.1	disseminated pyrite throughout
	78.62	17	HTW	GRD	1738.6	1098.4	2.66	2.7	cg grd, unaltered, minor diss py
	102.64	17	NTW	GRD	1124.9	713.8	2.34	2.7	CG GRD, unaltered, fine diss py
	138.85	10	NTW	GRD	730.9	461.7	2.59	2.7	fine grained granodiorite with minor pyrite throughout
	197.06	15.5	NTW	GRD	1273.1	799.5	2.9	2.7	unaltered fine-medium grained granodiorite
	218.23	15	NTW	QFP	852.9	542.5	2.01	2.8	coarse grained qfp
	304.12	11.5	NTW	QFP	767.2	484.3	2.36	2.7	coarse grained qfp dyke, moderately clay altered, ~1% disseminated py
	346.04	15	NTW	GRD	987.6	631.7	2.33	2.8	weakly clay altered coarse grained granodiorite, py stringers and disseminated py
	352.4	22	NTW	QFP	1440.4	910.2	2.32	2.7	Patchy moderate silica alteration and pervasive moderate clay alteration of feldspars, medium grained qfp dyke with minor qtz py stringers
	386.95	26.3	NTW	GRD	1783.9	1142.5	2.4	2.8	Weakly clay and silica and chlorite altered medium grained grd with 8mm qtz veinlet with trace Py at 40 deg tca, and 12mm qtz veinlet at 15 deg tca with minor Py and trace Mo. Sample is roughly 15% vein material

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
	399.8	13.7	NTW	GRD	876.7	550.5	2.26	2.7	weak clay chlorite alteration in coarse grained grd, minor disseminated py

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	CAS	--	casing							
1.30	12.19	10.89	OVB	--	overburden							
12.19	15.30	3.11	QFP	MG	rubbly and oxidized, some competent clasts.							
						MD	GY	RB	OXI	3I		
						LT	GY	PO	CLY	3I	Py	1
						LT	OR					
						LT	BN					
15.30	17.30	2.00	QFP	MG	broken and oxidized on fractures							
						MD	GY	PO	OXI	2I		
						LT	GY	FR	CLY	3I	Py	1
						LT	OR					
17.30	18.90	1.60	QFP	MG	broken and locally rubbly, less oxidized than above							
						LT	OR	RB	OXI	1I		
						LT	GY	FR	CLY	3I	Py	1
18.90	20.80	1.90	FLR	--	Crumbled and rubbly, abundant clay, but not cohesive. Sometimes light buff colour. Trace oxidation. Possibly contaminated by surficial clays and silts.							
						LT	BF	SH	OXI	1I		
						LT	OR	RB				
						LT	GY	CR	CLY	4I	Py	1
								ST				
20.80	21.80	1.00	QFP	MG	broken and locally crumbled and rubbly. Strained and weakly brittle sheared texture. Some clay in crumbled sections, but not highly cohesive. Trace oxidation							
						LT	GY	SH	CLY	3I	Py	1
						LT	OR	FR	OXI	1I		
								ST				
								CR				
21.80	24.70	2.90	QFP	MG	broken, trace oxidation. Some sheared dark grey sulphide gouge/clay in fractures with py.							
						MD	GY		OXI	1I		
						LT	GY	FR	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	MR					
24.70	28.20	3.50	GRD	CG	pervasive clay alteration							
						LT	CR	XL	CLY	4I	Py	1
						LT	GY					
28.20	32.50	4.30	GRD	CG	clays altered or stained to light yellow orange. Locally crumbly (ex 30.1m)							
						LT	OR	XL	OXI	1I		
						LT	CR	CR	CLY	4I	Py	1.5
						LT	YW					
						LT	GY					
32.50	34.00	1.50	GRD	CG	clay altered. Small band of silica flooding at 33.75m, py increases slightly in this altered band.							
34.00	34.50	0.50	GRD	CG	strained silica flooded > vein interval, with some py and carbonate. ~10% py over a 14cm interval.							
						MD	GY	ST	CLY	3I	Py	5
						MD	BN					
34.50	44.70	10.20	GRD	CG	patchy silica flooded and weakly clay altered and chlorite altered , small veinlets or stringers of py common, disseminated py throughout.							
						MD	GY	XL	CHL	2I	Py	1.5
						MD	GN		CLY	1I		
						LT	GY		SIL	2I		
44.70	45.00	0.30	GRD	CG	dark grey/brown staining around small veinlets and fracures in this interval, fe-chlorite? Moderate silica alteration.							
						MD	GY	CR	CHL	2I		
						MD	GN					
						MD	BR					
						LT	GY	XL	SIL	3I	Py	1
45.00	45.50	0.50	GRD	CG	weak to moderate silica flooding and weak chl alteration							
						MD	GY	XL	SIL	2I	Py	1
						MD	GN		CHL	2I		
45.50	45.72	0.22	GRD	CG	envelope around 2cm qtz-carb-py veinlet at 32 deg tca							
						MD	GY	EN				
						LT	GY	XL	CLY	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
45.72	49.60	3.88	GRD	CG	patchy silica flooded and weakly clay altered and chlorite altered , small veinlets or stringers of py common, disseminated py throughout. Minor epidote alteration in silica flooded intervals							
						MD	GY	FL	CLY	1I		
						MD	GN		PRO	2I		
						LT	GY	XL	SIL	2I	Py	1
									CHL	2I		
49.60	52.10	2.50	QFP	CG	Coarse grained qfp dyke, quartz and feld phenocrysts up to 7mm across. Matrix crystaling, fg. Feldspars weakly altered to clay minerals. Pale silver-gold disseminated py as blebs or as stringers/fracture infill.							
						MD	GY	PO			Py	1
						LT	MR	XL				
						LT	GY	MA	CLY	1I	Py	1
52.10	57.00	4.90	GRD	CG	Patchy weak to moderate clay and silica alteration in coarse grained grd. Alteration strongest imediately below dyke. Stringers of py and disseminated py throughout. ~3cm fine grained aplite (or quartz rich but still with small feldspar crystals present) at 52.3m, containing minor py infilling in fractures and disseminated throughout, at 10 deg tca.							
						MD	GY	CR	SIL	3I	Py	1
						LT	GY	XL	CLY	2I	Pg	0.5
								MA				
								FL				
57.00	63.00	6.00	GRD	CG	Pervasive weak to moderate silica alteration in medium to coarse grained grd. Stringers of py and disseminated to blebby py throughout. Fractures generally filled with white clay minerals. Epidote infill in some fractures.							
						MD	GY	FL	SIL	3I	Py	1
						MD	GN		CHL	2I		
						LT	GY	CR	CLY	1I	Py	1
63.00	66.20	3.20	GRD	CG	moderate clay alteration, fractured and locally rubbly							
						MD	GY	RB	SIL	2I		
						LT	GY	FR	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.20	76.00	9.80	GRD	CG	med to coarse grained. Patchy chlorite alteration in bands around weakly silicified intervals. Trace Cpy beginning to occur in some fractures. Rubbly interval at 72.4m. Minor pinkish red hematite staining on boundaries of weakly clay altered sections.							
						MD	GY	FL	SIL	2I	Py	1
						MD	GN	CR	CLY	1I		
						LT	RD		HEM	1I		
						LT	GY		CHL	1I		
76.00	89.00	13.00	GRD	CG	weak clay alteration, moderate to strong in small halo around occaisonal crumbly infilled fractures, low angle to 30 deg tca. Patchy weak silica alteration around Py bearing stringers, with small chlorite halo, generally 35-50 deg tca.							
						MD	GY		CLY	1I	Py	1
						LT	GY		SIL	1I	Cp	0.1
									CHL	1I		
89.00	89.40	0.40	GRD	--	altered rubble interval small 1cm sheared py vein at 30 deg tca.							
						LT	GY	CR	CLY	4I	Py	2
								RB				
89.40	96.85	7.45	GRD	CG	weak clay alteration, moderate to strong in small halo around occaisonal crumbly infilled fractures, low angle to 30 deg tca. Patchy weak silica alteration around Py bearing stringers, with small chlorite halo, generally 35-50 deg tca.							
						MD	GY		CLY	1I	Py	1
						MD	GN		SIL	1I		
						LT	GY		CHL	1I		
96.85	98.00	1.15	VOL	FG	fine grained dark groundmass chilled margin of intrusive body. Contact rubbly, but ~35 deg tca							
98.00	103.60	5.60	POR	CG	plag phenocryst dominant							
103.60	104.15	0.55	VOL	FG	fine grained dark groundmass chilled margin of intrusive body. Contact at 45 deg tca							
104.15	104.85	0.70	GRD	CG	silica flooder moderate							
104.85	111.85	7.00	GRD	CG	patchy silica around small veinlets, pervasive clay alteration, and patchy saussuritic alteration of feldspars. Disseminated py and trace cpy and stringers. Patchy weak hem alt							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		SIL	1I		
						LT	GY		CHL	1I	Py	1
						LT	GN		CLY	2I	Cp	0.1
									HEM	1I		
111.85	112.82	0.97	VEN	--	low angle qtz vein, 3cm true width, at ~10 deg tca. Hanging wall sheared with calcite-rhodochrosite veining associated. Sheared py resulting in blackish gouge on hanging wall side. Qtz is light to med grey in colour.							
											Py	2
112.82	113.15	0.33	QFP	--	small qfp dyke, weakly sheared texture 60-70 deg tca. Clay filled fracture cutting at 10 deg tca and small veinlet with py and qtz cutting at 30 deg tca							
						MD	GY		SIL	1I		
						LT	GY	SH	CLY	1I	Py	1
						LT	BF					
113.15	114.85	1.70	GRD	CG	pervasive weak clay alteration, minor py stringers and disseminated							
						MD	GY					
						LT	GY		CLY	2I	Py	1
114.85	116.20	1.35	GRD	--	sheared and strained pervasive clay altered med to coarse grained grd. Some py througout, in gougy sections and disseminated							
						MD	GY	CR	CLY	4I	Py	1
						LT	GY	RB				
								ST				
								SH				
116.20	121.50	5.30	GRD	CG	dominanly silica altered							
						MD	GY	FL	SIL	3I	Py	1
									CLY	1I	Cp	0.1
121.50	122.30	0.80	GRD	CG	dominantly clay altered							
						LT	GY		CLY	2I	Py	1
						LT	GN					
122.30	126.55	4.25	GRD	CG	dominantly silica altered							
						MD	GY	FL	SIL	3I	Py	1
126.55	127.50	0.95	GRD	CG	clay altered interval. Network of small qtz py stringers greating very fine stockwork fractures visible in this section.							
						LT	GY	CR	CLY	3I	Py	1
								ST				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
127.50	140.00	12.50	GRD	CG	weakly clay altered							
						MD	GY		CLY	1I	Py	0.5
140.00	148.80	8.80	GRD	CG	weak to moderately clay altered. Patchy weak sil alteration.							
						MD	GY		CLY	1I	Py	0.5
						LT	GN		CLY	2I		
									SIL	2I		
148.80	151.50	2.70	GRD	CG	moderate silica alteration envelope around qtz-carb-py vein at 10 deg tca							
						MD	GY	FL	SIL	3I	Py	1
						LT	BN				Py	1
						LT	GN					
151.50	166.20	14.70	GRD	CG	weak to moderate clay alteration and weak silica alteration, saussuritic alteration resulting in light grey green colouration of feldspars. 10-30 deg tca carbonate veins cutting through, associated with the stronger clay alteration.							
						MD	GY		CLY	1I	Py	1
						LT	GY		CLY	2I	Cp	0.1
						LT	GN		CHL	1I		
									SIL	1I		
166.20	168.00	1.80	GRD	CG	saussuritic alteration, weak clay-chlorite.							
						MD	GN		CHL	2I		
						MD	GY		CLY	2I	Py	1
						LT	GY					
168.00	169.66	1.66	GRD	CG	moderate to strong clay alteration around small dyke							
						MD	GY					
						LT	GY	EN	CLY	3I	Py	1
						LT	GN					
169.66	170.12	0.46	QFP	FG	small light grey brown fine grained qfp dyke, contacts at 60 deg tca							
						LT	GY	PO			Py	1
						LT	BN	MA				
170.12	178.67	8.55	GRD	CG	coarse grained grd, patchy weak to moderate clay alteration							
						MD	GY		CLY	2I	Py	1
						LT	GY		CLY	1I		
						LT	WH					
178.67	186.00	7.33	QFP	CG	granodioritic qfp dyke							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	MA	CLY	1I	Py	1
						LT	GY	PO				
186.00	187.00	1.00	GRD	CG	clay altered in halo around dyke and shear at dyke contact							
						MD	GY		CLY	3I	Py	1
						LT	GY					
187.00	191.50	4.50	GRD	CG	trace clay alteration, disseminated py							
						MD	GY		CLY	1I	Py	1
						LT	GY					
191.50	192.30	0.80	GRD	CG	alteration envelope around small qtz carbonate veinlet at 35 deg tca.							
						LT	GY	EN	CLY	3I	Py	1
						LT	GN		ARG	1I	Rh	1
						LT	WH		CHL	1I	Ca	1
192.30	194.00	1.70	GRD	CG	weakly clay altered and silica flooded envelope around small 8cm med grey buff qfp dyke at 192.8m							
						MD	GY	FL	CLY	1I	Py	1
						LT	BF		SIL	1I		
194.00	196.00	2.00	GRD	CG	strained and clay altered							
						MD	GY	ST				
						LT	GY	FR	CLY	4I	Py	1
						LT	WH					
196.00	200.70	4.70	GRD	CG	Generally unaltered GRD. Py stringers, occasional Cpy in small veinlets at 45 deg tca.							
						MD	GY		SIL	1I	Py	1
											Cp	0.1
200.70	202.10	1.40	GRD	CG	alteration above dyke. Weak to moderate clay alteration. Weak saussuritic alteration. Patchy sil alteration							
						MD	GY		CLY	1I	Py	1
						LT	GN		CHL	1I		
									SIL	1I		
202.10	202.15	0.05	FLR	--	gougey interval at contact							
						MD	GY	SH				
						LT	GY	ST	CLY	5I	Py	2
202.15	202.90	0.75	QFP	MG	dyke material							
						MD	BF	PO	CLY	1I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY		SIL	1I		
202.90	203.12	0.22	FLR	--	gougy sheared interval. Silica floooded on footwall side. Minor py.							
						MD	GY	ST	SIL	4I		
						LT	GY	SH	CLY	5I	Py	1
								FL				
203.12	205.10	1.98	QFP	MG	dyke materail							
						MD	BF	MA	SIL	1I		
						LT	GY	PO	CLY	2I	Py	1
205.10	205.55	0.45	GRD	CG	intense sil alteration							
									SIL	4I	Py	2
205.55	207.33	1.78	GRD	CG	intense clay alteration							
									CLY	4I		
207.33	207.90	0.57	QFP	MG	faulted fractured and altered qfp dyke							
						MD	BF	PO				
						LT	GY	SH	CLY	3I	Py	0.5
						LT	BN					
207.90	209.20	1.30	GRD	CG	moderately clay altered							
209.20	210.60	1.40	GRD	CG	weak to moderately altered grd. Small py veins at 25 and 65 deg tca.							
						MD	GY				Py	1.5
						LT	GY					
210.60	214.40	3.80	GRD	CG	intensely sheared and clay altered							
									CLY	4I		
214.40	219.00	4.60	QFP	MG	hematite staining, minor py veinlets and disseminated py							
						MD	GY	PO	HEM	2I		
						LT	GY	MA	CLY	2I	Py	0.5
						LT	RD					
219.00	225.00	6.00	QFP	MG	clay silica altered, minor py stringers and disseminated py							
						MD	GY	MA	CLY	2I	Py	1
						LT	GY	PO	SIL	2I	Py	0.5
225.00	231.70	6.70	QFP	MG	weakly hematite stained, granular appearance, weak to mod clay alteration							
						MD	GY	PO	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MA	HEM	2I		
						LT	RD					
231.70	235.55	3.85	QFP	FG	fine grained light grey qfp dyke, mineralized with py and minor boranite.							
						LT	GY	PO	CLY	2I	Py	1.5
											Bo	0.5
235.55	238.40	2.85	FLR	--	faulted dyke material, rubbly and sheared							
						MD	GY	FR				
						LT	GY	SH	CLY	3I	Py	1
								RB				
238.40	243.55	5.15	QFP	FG	fine grained light grey qfp dyke, mineralized with py and minor bornite.							
						LT	GY	MA	CLY	2I	Py	1.5
								PO			Bo	0.5
243.55	260.63	17.08	QFP	MG	granular dyke, locally weakly hematite stained. Disseminated py and veinlets.							
						MD	GY	PO	CLY	2I	Py	1
						LT	GY	MA	HEM	1I	Py	0.5
						LT	RD					
260.63	262.00	1.37	GRD	CG	silica altered grd with clay alteration, possibly xenolith?							
						MD	GY	FL	SIL	2I		
						LT	GY	XL	CLY	2I	Py	1
262.00	270.03	8.03	QFP	MG	granular qfp dyke, weak hematite alteration. Disseminated py, and py in stringers and fracture surfaces							
						MD	GY	PO	CLY	2I	Py	1
						LT	GY	MA	HEM	1I	Py	0.5
						LT	RD					
270.03	277.00	6.97	GRD	CG	broken grd, pervasive clay alteration and patchybweak hematite alteration. Small stringers of qtz-py throughout. Rubbly and strained in sections.							
						MD	GY	CR	CLY	3I	Py	1
						LT	GY	FR	SIL	1I		
									HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.00	285.75	8.75	GRD	CG	pervasive alteration, generally weak to moderate clay, some pale green alteration, weak chlorite. Small veinlets cutting through at various angles often with minor amounts of py. Steel grey mineral sometimes occuring with Py, possibly Bornite or hematite or molybdenite?							
						MD	GY		CLY	2I	Py	1
						LT	GY		SIL	1I		
						LT	GN		CHL	1I		
285.75	286.15	0.40	QFP	CG	mottled mixed contact between grd and dyke							
											Py	1
286.15	289.00	2.85	QFP	CG	mpatchy weak hematite alteration, weak clay alteration of feldspars							
289.00	289.80	0.80	QFP	CG	moderate to strong hematite alteration, increasing clay alteration							
289.80	291.80	2.00	QFP	CG	patchy weak hematite alteration							
291.80	301.30	9.50	QFP	CG	broken, moderate clay alteration of feldspars,, broken and locally rubbly. Strained and sheared at points. Disseminated py throughout, sometimes occuring with unidentified dark metalic grey mineral, fine grained, which sometimes occurs with disseminated py and in veinlets/stringers.							
						LT	GY	ST	CLY	3I	Py	1
											Un	0.2
301.30	303.40	2.10	QFP	CG	moderate to weak hematite alteration.							
						MD	GY		HEM	1I		
						LT	GY	ST	CLY	2I	Py	1
						LT	RD					
303.40	303.60	0.20	FLR	--	broken dyke material							
303.60	308.65	5.05	QFP	CG	weak to moderate clay alteration of feldspars in dyke. Dissemianted py and py in small stringers. Patchy weak hematite alteration.							
						MD	GY		HEM	1I		
						LT	GY		CLY	2I	Py	1
						LT	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
308.65	319.70	11.05	GRD	CG	Coarse grianed granodiorite, cut by stringers of qtz-py with occaisonal carbonate. Disseminated py througout. Interval. Patchy silica alteration, generally around small stringers, or larger generally barren quartz veinlets. Patches of clay alteration of feldspars and rare bands of hematite. Some quartz-py veinlets with secondary biotite alteration in silicified halos. Some qtz veins contain trace specular hematite, Gal, and Sphal, and possible molybdenite							
						MD	GY	CR	CLY	2I	Py	1
						LT	GY		SIL	2I	Py	0.2
											He	0.1
									HEM	1I	Gn	0.1
											Sp	0.1
319.70	320.50	0.80	GRD	CG	rubbly clay altered interval							
						MD	GY	ST				
						LT	GY	RB	CLY	4I	Py	0.5
320.50	326.00	5.50	GRD	CG	Coarse grianed granodiorite, cut by stringers of qtz-py with occaisonal carbonate. Disseminated py througout. Interval. Patchy silica alteration, generally around small stringers, or larger generally barren quartz veinlets. Patches of clay alteration of feldspars and rare bands of hematite. Some quartz-py veinlets with secondary biotite alteration in silicified halos.							
						MD	GY		CLY	2I	Py	1
						LT	GY		SIL	2I		
									CHL	1I		
326.00	335.20	9.20	GRD	CG	patchy moderate to strong silica flooding with iuncreased disseminated py and secondary biotite forming. Some patches of weak to moderate clay alteration around strained/fractured intervals. Small rhodochrosite veinlets at 55 deg tca two 1 cm thick py veins at 70 and 16 deg tca							
						MD	GY	CR	SIL	3I	Py	0.2
						MD	BN		CHL	2I		
						MD	GN					
						LT	GY	FL	CLY	2I	Py	1
335.20	336.20	1.00	GRD	CG	Broken grd with small py stringers and disseminated py. Weakly strained and sheared texture.							
						MD	GY	ST	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
336.20	337.30	1.10	GRD	CG	moderately clay altered. Some small carbonate veins and py veins							
337.30	338.00	0.70	GRD	CG	strong clay alteration. Weakly strained.							
338.00	339.00	1.00	GRD	CG	weakly clay altered, light greenish, weak chlorite alteration							
339.00	340.70	1.70	GRD	CG	moderately clay altered							
340.70	342.70	2.00	GRD	CG	weakly clay altered							
342.70	346.50	3.80	GRD	CG	coarse grained grd, patchy silica and clay alteration. Disseminated py and stringers throughout							
						MD	GY		CLY	2I	Py	0.5
						LT	GY		SIL	2I	Py	0.5
									CHL	1I		
346.50	349.40	2.90	GRD	CG	Patchy moderate to strong silica flooding. Patchy weak hematite lteration. Patchy weak chlorite alteration. Small amounts of light grey QFP dyke material, weakly clay altered, disseminated py and possibly small amounts of fine grained disseminated Mo.							
						MD	GY	PA	SIL	3I	Py	0.5
						LT	GY	PA	CLY	2I	Mo	0.1
						LT	BN		HEM	1I		
						LT	RD		CHL	1I		
						LT	GN					
349.40	350.35	0.95	QFP	FG	dark grey fine grained qfp dyke, phenocrysts less common on dyke boundary than in center of dyke. Strong silica alteration. Dyke contact at 40 deg tca							
						MD	GY	FL	SIL	5I	Py	0.5
						MD	BN					
						DK	GY					
350.35	355.00	4.65	QFP	MG	Patchy silica alteration. Some 1-2cm qtz veins with minor py and Mo. Disseminated py and possibly trace dissemianted Mo. Patchy weak chlorite alteration, sometimes with secondary biotite.							
						MD	GY	PA	SIL	2I	Mo	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	MO	CLY	2I	Py	0.5
						LT	BN					
						LT	GN		CHL	1I		
355.00	365.17	10.17	QFP	MG	Some 1-2cm qtz veins with minor Py and Mo. Disseminated Py and trace dissemianted Mo. Weak clay alteration of feldspars.							
						LT	GY	PO	CLY	2I	Py	0.5
											Mo	0.1
365.17	387.50	22.33	GRD	CG	Coarse grained GRD with patchy silica and clay alteration. Minor patches with chlorite alteration. Minor veinieng containing a few percent Py and minor Mo. Sheared and strained towards bottom of interval. Low angle veining containing fine grained py and light grey quarts cutting through at low angles to core axis.							
						MD	GY	FL	CLY	2I	Py	1
						LT	GY	PA	SIL	3I	Mo	0.1
						LT	GN		CHL	1I		
387.50	388.30	0.80	FLR	--	sheared and strained granodiorite, 30 deg tca							
						MD	GY					
						LT	GY	SH				
						LT	GN					
388.30	403.20	14.90	GRD	CG	broken and strained, blocky, GRD. Mo mineralization no longer observed in veins. Pervasive moderate clay alteration often overprinted by moderate silica alteration. Silica alteration associated with low angle py vienlets.							
						MD	GY	FR	CLY	3I	Py	0.5
						LT	GY	ST	SIL	2I	Py	0.5
						LT	GN					
403.20	409.50	6.30	FLR	--	sheared and strained grd. Silicified, but rubbly							
						MD	GY	ST	SIL	2I		
						LT	GY	FR	CLY	4I	Py	0.5
								RB				
409.50	409.96	0.46	GRD	CG	blocky and broken GRD. Carboante veinlet at 65 deg tca							
						MD	GY	FR	CLY	2I	Py	0.5
						LT	GY	ST	SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.30	1.30	CAS	OVB	--	casing
1.30	12.19	10.89	OVB	OVB	--	overburden
12.19	15.30	3.11	QFP	DYKM	MG	rubbly and oxidized, some competent clasts.
15.30	17.30	2.00	QFP	DYKM	MG	broken and oxidized on fractures
17.30	18.90	1.60	QFP	DYKM	MG	broken and locally rubbly, less oxidized than above
18.90	20.80	1.90	FLR	DYKM	--	Crumbled and rubbly, abundant clay, but not cohesive. Sometimes light buff colour. Trace oxidation. Possibly contaminated by surficial clays and silts.
20.80	21.80	1.00	QFP	DYKM	MG	broken and locally crumbled and rubbly. Strained and weakly brittle sheared texture. Some clay in crumbled sections, but not highly cohesive. Trace oxidation
21.80	24.70	2.90	QFP	DYKM	MG	broken, trace oxidation. Some sheared dark grey sulphide gouge/clay in fractures with py.
24.70	28.20	3.50	GRD	GRDA	CG	pervasive clay alteration
28.20	32.50	4.30	GRD	GRDA	CG	clays altered or stained to light yellow orange. Locally crumbly (ex 30.1m)
32.50	34.00	1.50	GRD	GRDA	CG	clay altered. Small band of silica flooding at 33.75m, py increases slightly in this altered band.
34.00	34.50	0.50	GRD	GRDA	CG	strained silica flooded > vein interval, with some py and carbonate. ~10% py over a 14cm interval.
34.50	44.70	10.20	GRD	GRDA	CG	patchy silica flooded and weakly clay altered and chlorite altered , small veinlets or stringers of py common, disseminated py throughout.
44.70	45.00	0.30	GRD	GRDA	CG	dark grey/brown staining around small veinlets and fracures in this interval, fe-chlorite? Moderate silica alteration.
45.00	45.50	0.50	GRD	GRDA	CG	weak to moderate silica flooding and weak chl alteration
45.50	45.72	0.22	GRD	GRDA	CG	envelope around 2cm qtz-carb-py veinlet at 32 deg tca
45.72	49.60	3.88	GRD	GRDA	CG	patchy silica flooded and weakly clay altered and chlorite altered , small veinlets or stringers of py common, disseminated py throughout. Minor epidote alteration in silica flooded intervals
49.60	52.10	2.50	QFP	DYKM	CG	Coarse grained qfp dyke, quartz and feld phenocrysts up to 7mm across. Matrix crystaling, fg. Feldspars weakly altered to clay minerals. Pale silver-gold disseminated py as blebs or as stringers/fracture infill.
52.10	57.00	4.90	GRD	GRDA	CG	Patchy weak to moderate clay and silica alteration in coarse grained grd. Alteration strongest imediately below dyke. Stringers of py and disseminated py throughout. ~3cm fine grained aplite (or quartz rich but still with small feldspar crystals present) at 52.3m, containing minor py infilling in fractures and disseminated throughout, at 10 deg tca.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
57.00	63.00	6.00	GRD	GRDA	CG	Pervasive weak to moderate silica alteration in medium to coarse grained grd. Stringers of py and disseminated to blebby py throughout. Fractures generally filled with white clay minerals. Epidote infill in some fractures.
63.00	66.20	3.20	GRD	GRDA	CG	moderate clay alteration, fractured and locally rubbly
66.20	76.00	9.80	GRD	GRDA	CG	med to coarse grained. Patchy chlorite alteration in bands around weakly silicified intervals. Trace Cpy beginning to occur in some fractures. Rubbly interval at 72.4m. Minor pinkish red hematite staining on boundaries of weakly clay altered sections.
76.00	89.00	13.00	GRD	GRDA	CG	weak clay alteration, moderate to strong in small halo around occaisonal crumbly infilled fractures, low angle to 30 deg tca. Patchy weak silica alteration around Py bearing stringers, with small chlorite halo, generally 35-50 deg tca.
89.00	89.40	0.40	GRD	GRDA	--	altered rubble interval small 1cm sheared py vein at 30 deg tca.
89.40	96.85	7.45	GRD	GRDA	CG	weak clay alteration, moderate to strong in small halo around occaisonal crumbly infilled fractures, low angle to 30 deg tca. Patchy weak silica alteration around Py bearing stringers, with small chlorite halo, generally 35-50 deg tca.
96.85	98.00	1.15	VOL	DYK	FG	fine grained dark groundmass chilled margin of intrusive body. Contact rubbly, but ~35 deg tca
98.00	103.60	5.60	POR	DYK	CG	plag phenocryst dominant
103.60	104.15	0.55	VOL	DYK	FG	fine grained dark groundmass chilled margin of intrusive body. Contact at 45 deg tca
104.15	104.85	0.70	GRD	GRDA	CG	silica flooder moderate
104.85	111.85	7.00	GRD	GRDA	CG	patchy silica around small veinlets, pervasive clay alteration, and patchy saussuritic alteration of feldspars. Disseminated py and trace cpy and stringers. Patchy weak hem alt
111.85	112.82	0.97	VEN	GRDA	--	low angle qtz vein, 3cm true width, at ~10 deg tca. Hanging wall sheared with calcite-rhodochrosite veining associated. Sheared py resulting in blackish gouge on hanging wall side. Qtz is light to med grey in colour.
112.82	113.15	0.33	QFP	DYK	--	small qfp dyke, weakly sheared texture 60-70 deg tca. Clay filled fracture cutting at 10 deg tca and small veinlet with py and qtz cutting at 30 deg tca
113.15	114.85	1.70	GRD	GRDA	CG	pervasive weak clay alteration, minor py stringers and disseminated
114.85	116.20	1.35	GRD	FLT	--	sheared and strained pervasive clay altered med to coarse grained grd. Some py througout, in gougy sections and disseminated
116.20	121.50	5.30	GRD	GRDA	CG	dominanly silica altered
121.50	122.30	0.80	GRD	GRDA	CG	dominantly clay altered
122.30	126.55	4.25	GRD	GRDA	CG	dominantly silica altered
126.55	127.50	0.95	GRD	GRDA	CG	clay altered interval. Network of small qtz py stringers greating very fine stockwork fractures visible in this section.
127.50	140.00	12.50	GRD	GRDA	CG	weakly clay altered

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
140.00	148.80	8.80	GRD	GRDA	CG	weak to moderately clay altered. Patchy weak sil alteration.
148.80	151.50	2.70	GRD	GRDA	CG	moderate silica alteration envelope around qtz-carb-py vein at 10 deg tca
151.50	166.20	14.70	GRD	GRDA	CG	weak to moderate clay alteration and weak silica alteration, saussuritic alteration resulting in light grey green colouration of feldspars. 10-30 deg tca carbonate veins cutting through, associated with the stronger clay alteration.
166.20	168.00	1.80	GRD	GRDA	CG	saussuritic alteration, weak clay-chlorite.
168.00	169.66	1.66	GRD	GRDA	CG	moderate to strong clay alteration around small dyke
169.66	170.12	0.46	QFP	DYK	FG	small light grey brown fine grained qfp dyke, contacts at 60 deg tca
170.12	178.67	8.55	GRD	GRDA	CG	coarse grained grd, patchy weak to moderate clay alteration
178.67	186.00	7.33	QFP	DYK	CG	granodioritic qfp dyke
186.00	187.00	1.00	GRD	GRDA	CG	clay altered in halo around dyke and shear at dyke contact
187.00	191.50	4.50	GRD	GRDA	CG	trace clay alteration, disseminated py
191.50	192.30	0.80	GRD	GRDA	CG	alteration envelope around small qtz carbonate veinlet at 35 deg tca.
192.30	194.00	1.70	GRD	GRDA	CG	weakly clay altered and silica flooded envelope around small 8cm med grey buff qfp dyke at 192.8m
194.00	196.00	2.00	GRD	GRDA	CG	strained and clay altered
196.00	200.70	4.70	GRD	GRDA	CG	Generally unaltered GRD. Py stringers, occasional Cpy in small veinlets at 45 deg tca.
200.70	202.10	1.40	GRD	GRDA	CG	alteration above dyke. Weak to moderate clay alteration. Weak saussuritic alteration. Patchy sil alteration
202.10	202.15	0.05	FLR	DYK	--	gougey interval at contact
202.15	202.90	0.75	QFP	DYK	MG	dyke material
202.90	203.12	0.22	FLR	DYK	--	gougy sheared interval. Silica floooded on footwall side. Minor py.
203.12	205.10	1.98	QFP	DYK	MG	dyke materail
205.10	205.55	0.45	GRD	GRDA	CG	intense sil alteration
205.55	207.33	1.78	GRD	GRDA	CG	intense clay alteration
207.33	207.90	0.57	QFP	DYK	MG	faulted fractured and altered qfp dyke
207.90	209.20	1.30	GRD	GRDA	CG	moderately clay altered
209.20	210.60	1.40	GRD	GRDA	CG	weak to moderately altered grd. Small py veins at 25 and 65 deg tca.
210.60	214.40	3.80	GRD	GRDA	CG	intensely sheared and clay altered
214.40	219.00	4.60	QFP	DYK	MG	hematite staining, minor py veinlets and disseminated py
219.00	225.00	6.00	QFP	DYK	MG	clay silica altered, minor py stringers and disseminated py

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
225.00	231.70	6.70	QFP	DYK	MG	weakly hematite stained, granular appearance, weak to mod clay alteration
231.70	235.55	3.85	QFP	DYKM	FG	fine grained light grey qfp dyke, mineralized with py and minor boranite.
235.55	238.40	2.85	FLR	DYKM	--	faulted dyke material, rubbly and sheared
238.40	243.55	5.15	QFP	DYKM	FG	fine grained light grey qfp dyke, mineralized with py and minor bornite.
243.55	260.63	17.08	QFP	DYK	MG	granular dyke, locally weakly hematite stained. Disseminated py and veinlets.
260.63	262.00	1.37	GRD	GRDA	CG	silica altered grd with clay alteration, possibly xenolith?
262.00	270.03	8.03	QFP	DYK	MG	granular qfp dyke, weak hematite alteration. Disseminated py, and py in stringers and fracture surfaces
270.03	277.00	6.97	GRD	GRDF	CG	broken grd, pervasive clay alteration and patchybweak hematite alteration. Small stringers of qtz-py throughout. Rubbly and strained in sections.
277.00	285.75	8.75	GRD	GRDA	CG	pervasive alteration, generally weak to moderate clay, some pale green alteration, weak chlorite. Small veinlets cutting through at various angles often with minor amounts of py. Steel grey mineral sometimes occuring with Py, possibly Bornite or hematite or molybdenite?
285.75	286.15	0.40	QFP	DYK	CG	mottled mixed contact between grd and dyke
286.15	289.00	2.85	QFP	DYKM	CG	mpatchy weak hematite alteration, weak clay alteration of feldspars
289.00	289.80	0.80	QFP	DYKM	CG	moderate to strong hematite alteration, increasing clay alteration
289.80	291.80	2.00	QFP	DYKM	CG	patchy weak hematite alteration
291.80	301.30	9.50	QFP	DYKM	CG	broken, moderate clay alteration of feldspars,, broken and locally rubbly. Strained and sheared at points. Disseminated py throughout, sometimes occuring with unidentified dark metalic grey mineral, fine grained, which sometimes occurs with disseminated py and in veinlets/stringers.
301.30	303.40	2.10	QFP	DYKM	CG	moderate to weak hematite alteration.
303.40	303.60	0.20	FLR	DYKM	--	broken dyke material
303.60	308.65	5.05	QFP	DYKM	CG	weak to moderate clay alteration of feldspars in dyke. Dissemianted py and py in small stringers. Patchy weak hematite alteration.
308.65	319.70	11.05	GRD	GRDA	CG	Coarse grianed granodiorite, cut by stringers of qtz-py with occaisonal carbonate. Disseminated py througout. Interval. Patchy silica alteration, generally around small stringers, or larger generally barren quartz veinlets. Patches of clay alteration of feldspars and rare bands of hematite. Some quartz-py veinlets with secondary biotite alteration in silicified halos. Some qtz veins contain trace specular hematite, Gal, and Sphal, and possible molybdenite
319.70	320.50	0.80	GRD	GRDA	CG	rubbly clay altered interval
320.50	326.00	5.50	GRD	GRDA	CG	Coarse grianed granodiorite, cut by stringers of qtz-py with occaisonal carbonate. Disseminated py througout. Interval. Patchy silica alteration, generally around small stringers, or larger generally barren quartz veinlets. Patches of clay alteration of feldspars and rare bands of hematite. Some quartz-py veinlets with secondary biotite alteration in silicified halos.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
326.00	335.20	9.20	GRD	GRDA	CG	patchy moderate to strong silica flooding with iuncreased disseminated py and secondary biotite forming. Some patches of weak to moderate clay alteration around strained/fractured intervals. Small rhodochrosite veinlets at 55 deg tca two 1 cm thick py veins at 70 and 16 deg tca
335.20	336.20	1.00	GRD	GRDA	CG	Broken grd with small py stringers and disseminated py. Weakly strained and sheared texture.
336.20	337.30	1.10	GRD	GRDA	CG	moderately clay altered. Some small carbonate veins and py veins
337.30	338.00	0.70	GRD	GRDA	CG	strong clay alteration. Weakly strained.
338.00	339.00	1.00	GRD	GRDA	CG	weakly clay altered, light greenish, weak chlorite alteration
339.00	340.70	1.70	GRD	GRDA	CG	moderately clay altered
340.70	342.70	2.00	GRD	GRDA	CG	weakly clay altered
342.70	346.50	3.80	GRD	GRDA	CG	coarse grained grd, patchy silica and clay alteration. Disseminated py and stringers throughout
346.50	349.40	2.90	GRD	GRDA	CG	Patchy moderate to strong silica flooding. Patchy weak hematite lteration. Patchy weak chlorite alteration. Small amounts of light grey QFP dyke material, weakly clay altered, disseminated py and possibly small amounts of fine grained disseminated Mo.
349.40	350.35	0.95	QFP	DYKM	FG	dark grey fine grained qfp dyke, phenocrysts less common on dyke boundary than in center of dyke. Strong silica alteration. Dyke contact at 40 deg tca
350.35	355.00	4.65	QFP	DYKM	MG	Patchy silica alteration. Some 1-2cm qtz veins with minor py and Mo. Disseminated py and possibly trace dissemianted Mo. Patchy weak chlorite alteration, sometimes with secondary biotite.
355.00	365.17	10.17	QFP	DYKM	MG	Some 1-2cm qtz veins with minor Py and Mo. Disseminated Py and trace dissemianted Mo. Weak clay alteration of feldspars.
365.17	387.50	22.33	GRD	GRDA	CG	Coarse grained GRD with patchy silica and clay alteration. Minor patches with chlorite alteration. Minor veinieng containing a few percent Py and minor Mo. Sheared and strained towards bottom of interval. Low angle veining containing fine grained py and light grey quarts cutting through at low angles to core axis.
387.50	388.30	0.80	FLR	GRDA	--	sheared and strained granodiorite, 30 deg tca
388.30	403.20	14.90	GRD	GRDA	CG	broken and strained, blocky, GRD. Mo mineralization no longer observed in veins. Pervasive moderate clay alteration often overprinted by moderate silica alteration. Silica alteration associated with low angle py vienlets.
403.20	409.50	6.30	FLR	GRDA	--	sheared and strained grd. Silicified, but rubbly
409.50	409.96	0.46	GRD	GRDA	CG	blocky and broken GRD. Carboante veinlet at 65 deg tca

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	CAS	--	casing							
1.30	12.19	10.89	OVB	--	overburden							
12.19	24.70	12.51	QFP	MG	Medium grained qfp dyke, quartz and feld phenocrysts up to 5mm across. Feldspars altered to clay minerals. Locally faulted and rubbly. Oxidized down to 18m, trace oxidation down to 24m. Pale silver-gold disseminated py as blebs or as stringers/fracture infill.							
						MD	GY	PO	OXI	3I		
						LT	OR	CR				
						LT	GY	FR	CLY	3I	Py	1
						LT	BN					
24.70	34.00	9.30	GRD	CG	Pervasively clay altered coarse grained grd. Small stringers of Py and disseminated py througout interval. Feldspars altered to clay, occaisonally stained yellow brown. Occasonal light greyqtz veins cutting through, often with 20-30% Py. Minor shears, oft altered to gougy clay with rubbled quartz and grd fragments intermixed.							
						LT	CR	CR	CLY	4I	Py	1
						MD	GY					
						LT	YW					
						LT	GY	XL				
						LT	OL					
34.00	49.60	15.60	GRD	CG	Patchy clay and silica alteration coarse grained grd, with common finer grained xenoliths. Patchy sausseritic to propyllitic alteration occuring in silica altered intervals. Py infill in small fractures and on fracture surfaces. Disseminated py throughout.							
									PRO	1I		
						MD	GY	XL	CLY	1I	Py	1.5
						LT	GY		CHL	2I		
						LT	GN		SIL	2I		
49.60	52.10	2.50	QFP	CG	Coarse grained qfp dyke, quartz and feld phenocrysts up to 7mm across. Matrix crystaling, fg. Feldspars weakly altered to clay minerals. Pale silver-gold disseminated py as blebs or as stringers/fracture infill.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	XL	CLY	1I	Py	1
						MD	GY	PO				
						LT	MR	MA			Py	1
52.10	57.00	4.90	GRD	CG	Patchy weak to moderate clay and silica alteration in coarse grained grd. Alteration strongest imediately below dyke. Stringers of py and disseminated py throughout. ~3cm fine grained aplite (or quartz rich but still with small feldspar crystals present) at 52.3m, containing minor py infilling in fractures and disseminated throughout, at 10 deg tca.							
								CR				
						LT	GY	XL	CLY	2I	Py	0.5
						MD	GY	FL	SIL	3I	Py	1
57.00	96.85	39.85	GRD	CG	Pervasive weak to moderate silica alteration in medium to coarse grained GRD. Stringers of Py and disseminated to blebby Py throughout. Fractures generally filled with white clay minerals. Patchy weak epidote alteration in some intervals. Minor Cpy occuring with Py in some of the better mineralized veinlets and fractures.							
						MD	GY	FR	SIL	3I	Py	1
						LT	GY	FL	CLY	1I	Py	1
						MD	GN	BN	EP	1I	Cp	0.1
									CHL	1I		
96.85	104.15	7.30	GRD	CG	Intruding granodiorite body? Fine grained dark, massive margins, with rounded oval placioclase phenocrysts generally uniform in size 6mm diameter, absent at margins, grading to become dominant at center of dyke, minor qtz phenocrysts of similar size throughout. Py stringers and disseminated/blebs throughout, trace to minor Cpy disseminated and in stringers. Fracture sets at 24 deg tca with clay alteration and 32 deg tca with py-chl.							
						LT	GY	PO	CHL	2I	Cp	0.1
						MD	GY	ZO	CLY	2I	Py	1
104.15	112.82	8.67	GRD	CG	Coarse grained GRD with pervasive clay alteration and patchy silica alteration around small qtz py veinlets. Minor veinlets with py and trace cpy, generally at 45 deg tca							
						LT	GY		SIL	1I	Cp	0.1
						MD	GY		CLY	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
112.82	113.15	0.33	QFP	--	small qfp dyke, weakly sheared texture 60-70 deg tca. Clay filled fracture cutting at 10 deg tca and small veinlet with py and qtz cutting at 30 deg tca							
						MD	GY		SIL	1I		
						LT	BF					
						LT	GY	SH	CLY	1I	Py	1
113.15	114.85	1.70	GRD	CG	pervasive weak clay alteration, minor py stringers and disseminated							
						MD	GY					
						LT	GY		CLY	2I	Py	1
114.85	116.20	1.35	GRD	--	sheared and strained pervasive clay altered med to coarse grained grd. Some py througout, in gougy sections and disseminated							
						LT	GY	SH				
								CR				
								RB				
						MD	GY	ST	CLY	4I	Py	1
116.20	169.66	53.46	GRD	CG	Patchy silica and clay alteration in GRD, weak to moderate. Minor stringers and disseminated py througout. Patchy saussuritic alteration. Trace Cpy in qtz-py veinlets. Some small mostly barren carbonate-qtz veins at low angles tca.							
						LT	GY	FL	CLY	2I	Cp	0.1
						LT	GN		CHL	1I		
						MD	GY	MO	SIL	3I	Py	1
169.66	170.12	0.46	QFP	FG	small light grey brown fine grained qfp dyke, contacts at 60 deg tca							
						LT	GY	MA			Py	1
						LT	BN	PO				
170.12	178.67	8.55	GRD	CG	coarse grained grd, patchy weak to moderate clay alteration							
						MD	GY		CLY	2I	Py	1
						LT	WH					
						LT	GY		CLY	1I		
178.67	186.00	7.33	QFP	CG	granodioritic qfp dyke top contact sharp at 50 deg tca, lower contact sheared and gougy, at 35-50 deg tca							
						MD	GY	PO	CLY	1I	Py	1
						LT	GY	MA				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
186.00	202.10	16.10	GRD	CG	Patchy clay alteration througout interval. Silica alteration in patchy halos around some veinlets/fractures. Disseminated Py througout. Py in stringers througout. Minor Cpy in small vein at 45 deg tca at 199m. Sheared/strained interval between 194-196m.				SIL	1I	Cp	0.1
						LT	GY	ST	CLY	3I	Py	0.5
									SIL	4I		
						MD	GY	MO	CLY	1I	Py	1
202.10	205.10	3.00	QFP	MG	med grey buff qfp dyke with small mafic pheno crysts, disseminated py, often replacing phenocrysts, or occuring alongside. Sheared intervals at contacts above and below and within.							
						LT	GY	SH				
						MD	GY	PO	CLY	1I	Py	1
						LT	BF	ST	SIL	1I		
205.10	207.33	2.23	GRD	CG	strong clay alteration, strained, broken. Patchy silica alteration on margins and around vein/shear at 206.8							
						LT	GY	FR	CLY	4I	Py	0.5
						MD	GY	ST				
207.33	207.90	0.57	QFP	MG	faulted fractured and altered qfp dyke							
						LT	GY	PO	CLY	3I	Py	0.5
						MD	BF	SH				
						LT	BN					
207.90	214.40	6.50	GRD	CG	compotent, grading to intensly sheared/brecciated and altered towards bottom of interval.							
						MD	GY	ST	CLY	4I	Py	0.5
						LT	GY	SH				
214.40	231.70	17.30	QFP	MG	granular dyke, qtz and feld phenocrysts. Patchy reddish colour, hematite staining. Minor diss py							
						MD	GY	MA	HEM	2I		
						LT	RD	FR	SIL	2I		
						LT	GY	PO	CLY	2I	Py	0.5
231.70	243.55	11.85	QFP	FG	fine grained light grey qfp dyke, mineralized with py and minor bornite. Locally sheared/faulted/							
						LT	GY	PO	CLY	2I	Py	2
											Bo	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
243.55	260.63	17.08	QFP	MG	granular dyke, locally weakly hematite stained. Disseminated py and veinlets.							
						LT	RD					
						LT	GY	MA	HEM	1I	Py	0.5
						MD	GY	PO	CLY	2I	Py	1
260.63	262.00	1.37	GRD	CG	silica altered grd with clay alteration, possibly xenolith?							
						MD	GY	XL	SIL	2I		
						LT	GY	FL	CLY	2I	Py	1
262.00	270.03	8.03	QFP	MG	granular qfp dyke, weak hematite alteration. Disseminated py, and py in stringers and fracture surfaces							
						MD	GY	PO	CLY	2I	Py	1
						LT	GY	MA	HEM	1I	Py	0.5
						LT	RD					
270.03	277.00	6.97	GRD	CG	broken grd, pervasive clay alteration and patchybweak hematite alteration. Small stringers of qtz-py throughout. Rubbly and strained in sections.							
						MD	GY	FR	CLY	3I	Py	1
									HEM	1I		
						LT	GY	CR	SIL	1I		
277.00	285.75	8.75	GRD	CG	pervasive alteration, generally weak to moderate clay, some pale green alteration, weak chlorite. Small veinlets cutting through at various angles often with minor amounts of py. Steel grey mineral sometimes occuring with Py, possibly Bornite or hematite or molybdenite?							
						MD	GY		CLY	2I	Py	1
						LT	GY		SIL	1I		
						LT	GN		CHL	1I		
285.75	286.15	0.40	QFP	CG	mottled mixed contact between grd and dyke							
											Py	1
286.15	308.65	22.50	QFP	CG	Abundant clasts of weak to moderatley clay altered feldspars, clay alteration in matrix, but not as prevalent. Patchy hematite alteration. Qtz phenocrysts less abundant than feldspar. Disseminated py throughout. Patcy intervals where dark grey metalic mineral occurs with Py, possibly molybdenite, Bornite, hematite? Lower contact at 40 deg tca							
						MD	GY	PO	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	CR	HEM	1I		
						LT	RD					
308.65	349.40	40.75	GRD	CG	Coarse grianed granodiorite, cut by stringers of qtz-py with occaisonal carbonate and rare cpy. Disseminated py througout. Interval. Patchy silica alteration, generally around small stringers, or larger generally barren quartz veinlets. Patches of clay alteration of feldspars and rare bands of hematite. Some quartz-py veinlets with secondary biotite alteration in silicified halos. Some qtz veins contain trace specular hematite, Gal, and Sphal, and possible molybdenite							
									HEM	1I	Sp	0.1
									CHL	1I	He	0.1
						LT	GY	CR	CLY	2I	Gn	0.1
						MD	GY	FR	SIL	2I	Py	1
											Mo	0.1
349.40	365.17	15.77	QFP	MG	Patchy moderate silica alt. Patchy weak clay alteration. Patchy weak chlorite alteration. Moderately fractured, infilled with quartz and minor Py. Disseminated Py and fine grained dissemianted and vein hosted Mo. Upper contact with GRD is dark, finer grained and strongly silica altered.							
									CHL	1I	Mo	0.1
											Mo	0.1
								PO	SIL	1I	Py	0.2
						MD	GY	FR	CLY	2I	Py	0.5
365.17	409.96	44.79	GRD	CG	Coarse grained GRD with patchy silica and clay alteration. Minor patches with chlorite alteration. Minor veinieng containing a few percent Py and minor Mo. Sheared and strained towards bottom of interval. Visible mineralization except for Py dissapears at 390m.							
						LT	GY	PA	CLY	3I	Py	0.5
						MD	GY	FR			Mo	0.1
											Py	0.2

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.30	1.30	0	0	0.00	0	--	--	--	
1.30	1.52	0.22	0.2	91	0.00	0	--	1H	6W	Fractured rubble and overburden
1.52	2.74	1.22	0.05	4	0.00	0	--	2H	5W	overburden
2.74	3.66	0.92	0.34	37	0.00	0	--	2H	5W	pebbles and overburden
3.66	4.57	0.91	0.23	25	0.00	0	--	2H	5W	Pebbles and overburden
4.57	6.10	1.53	0.26	17	0.00	0	--	2H	5W	pebbles and overburden
6.10	7.62	1.52	0.33	22	0.00	0	--	2H	5W	pebbles and overburden
7.62	9.45	1.83	0.53	29	0.00	0	--	1H	6W	Pebbles, soil and overburden
9.45	10.67	1.22	0.08	7	0.00	0	--	2H	5W	pebbles
10.67	12.19	1.52	0.13	9	0.00	0	--	2H	5W	pebbles
12.19	14.63	2.44	0.93	38	0.00	0	--	2H	6W	soil and overburden
14.63	15.85	1.22	0.71	58	0.00	0	--	2H	6W	pebbles soil and overburden
15.85	16.76	0.91	0.58	64	0.00	0	--	2H	5W	
16.76	18.29	1.53	1.1	72	0.00	0	--	2H	5W	
18.29	19.20	0.91	0.78	86	0.00	0	--	1H	6W	mud/ clay
19.20	19.81	0.61	0.34	56	0.00	0	--	1H	6W	mud/ clay
19.81	21.34	1.53	1.21	79	0.00	0	--	1H	6W	mud/ clay
21.34	22.86	1.52	1.33	88	0.00	0	--	2H	5W	rubble zone
22.86	24.38	1.52	1.09	72	0.00	0	--	2H	4W	
24.38	25.91	1.53	1.34	88	0.29	19	--	1H	3W	Starting to get actual core of clay altered light grey coarse-medium grained granodiorite
25.91	27.42	1.51	1.42	94	0.27	18	--	1H	4W	
27.42	28.96	1.54	1.42	92	0.13	8	--	1H	4W	clay altered granodiorite
28.96	30.48	1.52	1.47	97	0.16	11	--	2H	3W	
30.48	32.00	1.52	1.39	91	0.00	0	--	2H	3W	
32.00	33.53	1.53	1.36	89	0.50	33	--	3H	2W	
33.53	35.05	1.52	1.37	90	0.11	7	--	3H	1W	
35.05	36.58	1.53	1.37	90	0.11	7	--	1H	2W	rubble and clay altered zone

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
36.58	38.10	1.52	1.43	94	0.00	0	--	3H	1W	some joint surfaces infilled with pyrite veins and are at opposing angles to one another
38.10	39.62	1.52	1.43	94	0.12	8	--	4H	1W	fracture surfaces coated in calcite + pyrite
39.62	41.15	1.53	1.45	95	0.54	35	--	3H	1W	
41.15	42.67	1.52	1.46	96	0.28	18	--	4H	1W	
42.67	44.20	1.53	1.4	92	0.31	20	--	4H	1W	
44.20	45.72	1.52	1.27	84	0.29	19	--	4H	1W	No matching joint sets
45.72	47.24	1.52	1.32	87	0.34	22	--	4H	1W	
47.24	48.77	1.53	1.24	81	0.14	9	--	4H	1W	
48.77	50.29	1.52	1.43	94	0.00	0	--	4H	1W	
50.29	51.82	1.53	1.37	90	0.59	39	--	4H	1W	
51.82	53.34	1.52	1.5	99	0.15	10	--	4H	1W	
53.34	54.86	1.52	1.43	94	0.60	39	--	3H	1W	
54.86	56.39	1.53	1.45	95	0.36	24	--	4H	1W	
56.39	57.91	1.52	1.38	91	0.52	34	--	3H	1W	
57.91	59.44	1.53	1.38	90	0.74	48	--	4H	1W	
59.44	60.96	1.52	1.46	96	0.12	8	--	3H	1W	
60.96	62.48	1.52	1.45	95	0.34	22	--	3H	1W	
62.48	64.01	1.53	1.38	90	0.14	9	--	2H	1W	Fractured rubble zone with abundant calcite veining and infilled fractures
64.01	65.38	1.37	1.27	93	0.13	9	--	3H	1W	Fractured rubble zone
65.38	67.06	1.68	1.35	80	0.00	0	--	4H	1W	
67.06	68.58	1.52	1.42	93	0.27	18	--	4H	1W	Very siliceous porphryitic granodiorite
68.58	70.10	1.52	1.41	93	0.57	38	--	4H	1W	
70.10	71.63	1.53	1.46	95	0.69	45	--	4H	1W	
71.63	73.15	1.52	1.31	86	0.46	30	--	4H	1W	Fracture rubble zone with calcite infill on rubble. No matching joint sets
73.15	74.68	1.53	1.43	93	0.85	56	--	4H	1W	
74.68	76.20	1.52	1.43	94	0.64	42	--	4H	1W	minor chalcopyrite on joint/ fracture surface
76.20	77.72	1.52	1.48	97	1.17	77	--	4H	1W	
77.72	79.25	1.53	1.47	96	0.83	54	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
79.25	80.77	1.52	1.5	99	0.74	49	--	4H	1W	
80.77	82.30	1.53	1.41	92	0.12	8	--	4H	1W	
82.30	83.82	1.52	1.44	95	0.31	20	--	3H	1W	
83.82	85.34	1.52	1.4	92	0.44	29	--	2H	1W	clay altered fault/ rubble. Small vein with pyrite on joint surface at approximately 30 degrees
85.34	86.87	1.53	1.46	95	0.51	33	--	3H	1W	
86.87	88.39	1.52	1.36	89	0.39	26	--	3H	1W	
88.39	89.92	1.53	1.44	94	0.11	7	--	3H	1W	
89.92	91.44	1.52	1.47	97	0.43	28	--	3H	1W	
91.44	94.18	2.74	2.43	89	0.75	27	--	3H	1W	
94.18	97.38	3.20	2.93	92	1.53	48	--	3H	1W	
97.38	100.58	3.20	2.91	91	1.37	43	--	3H	1W	
100.58	103.63	3.05	2.94	96	1.68	55	--	3H	1W	
103.63	106.68	3.05	2.95	97	1.98	65	--	3H	1W	
106.68	109.73	3.05	3	98	1.70	56	--	3H	1W	
109.73	112.78	3.05	2.92	96	1.15	38	--	3H	1W	
112.78	115.82	3.04	2.49	82	0.82	27	--	3H	1W	Rubble zone
115.82	118.87	3.05	2.76	90	0.70	23	--	3H	1W	clay fault gouge/ rubble
118.87	121.92	3.05	2.9	95	0.92	30	--	3H	1W	
121.92	124.97	3.05	2.98	98	0.65	21	--	3H	1W	
124.97	128.02	3.05	2.97	97	1.90	62	--	4H	1W	
128.02	131.06	3.04	2.78	91	2.17	71	--	4H	1W	
131.06	134.11	3.05	3.02	99	1.31	43	--	3H	1W	
134.11	137.16	3.05	3.02	99	1.41	46	--	4H	1W	
137.16	140.21	3.05	2.96	97	1.89	62	--	3H	1W	
140.21	143.26	3.05	2.98	98	0.37	12	--	3H	1W	
143.26	146.30	3.04	2.86	94	1.01	33	--	4H	1W	lots of calcite on fracture/ joint surfaces
146.30	149.35	3.05	2.91	95	0.55	18	--	3H	1W	thin veinlets of pyrite and calcite throughout
149.35	152.40	3.05	2.91	95	1.23	40	--	3H	1W	
152.40	155.45	3.05	3.02	99	1.76	58	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
155.45	158.50	3.05	2.96	97	1.30	43	--	3H	1W	
158.50	161.54	3.04	2.9	95	1.71	56	--	3H	1W	
161.54	164.59	3.05	2.87	94	1.30	43	--	4H	1W	
164.59	167.64	3.05	2.98	98	1.17	38	--	3H	1W	
167.64	170.69	3.05	2.89	95	1.27	42	--	4H	1W	
170.69	173.74	3.05	2.93	96	1.81	59	--	4H	1W	
173.74	176.78	3.04	2.87	94	1.67	55	--	3H	1W	
176.78	179.83	3.05	2.9	95	0.99	32	--	3H	1W	
179.83	182.88	3.05	2.87	94	0.86	28	--	3H	1W	
182.88	185.32	2.44	2.11	86	0.53	22	--	3H	1W	Rubble fracture fault zone
185.32	187.45	2.13	1.72	81	0.00	0	--	2H	1W	clay altered fault gouge/ fracture zone
187.45	190.50	3.05	2.92	96	1.19	39	--	2H	1W	
190.50	193.55	3.05	2.94	96	0.68	22	--	3H	1W	
193.55	196.60	3.05	2.84	93	0.42	14	--	2H	1W	calcite and clay altered fault rubble/ gouge.
196.60	199.64	3.04	2.9	95	1.91	63	--	5H	1W	
199.64	202.69	3.05	2.89	95	0.70	23	--	3H	1W	some very siliceous sections
202.69	205.74	3.05	2.82	92	0.56	18	--	3H	1W	clay fault gouge and fractured porphyry dyke
205.74	208.79	3.05	2.88	94	0.14	5	--	3H	1W	
208.79	211.84	3.05	2.79	91	0.37	12	--	3H	1W	
211.84	214.27	2.43	1.95	80	0.00	0	--	2H	1W	clay fault gouge/ rubble zone
214.27	217.02	2.75	2.36	86	0.00	0	--	3H	1W	fractured siliceous qfp dyke
217.02	219.46	2.44	2.1	86	0.11	5	--	4H	1W	siliceous qfp dyke with light red hematite staining throughout (?)
219.46	222.50	3.04	2.88	95	0.51	17	--	4H	1W	
222.50	225.55	3.05	2.86	94	0.62	20	--	4H	1W	
225.55	227.99	2.44	2.3	94	0.37	15	--	3H	1W	
227.99	230.12	2.13	1.94	91	0.31	15	--	4H	1W	
230.12	231.95	1.83	1.61	88	0.14	8	--	3H	1W	
231.95	233.78	1.83	1.6	87	0.00	0	--	3H	1W	silicified light grey fine grained dyke with visible fine grained bornite and coarse grained pyrite

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
233.78	235.00	1.22	0.4	33	0.00	0	--	2H	1W	rubble
235.00	236.07	1.07	0.48	45	0.00	0	--	2H	1W	rubble and some clay fault gouge
236.07	237.01	0.94	0.45	48	0.00	0	--	2H	1W	rubble
237.01	238.05	1.04	0.51	49	0.00	0	--	2H	1W	
238.05	239.88	1.83	1.58	86	0.00	0	--	2H	1W	rubble and clay fault gouge
239.88	241.71	1.83	1.39	76	0.00	0	--	2H	1W	
241.71	243.84	2.13	1.94	91	0.00	0	--	2H	1W	
243.84	246.89	3.05	2.88	94	0.33	11	--	3H	1W	
246.89	249.94	3.05	2.72	89	0.62	20	--	3H	1W	
249.94	252.98	3.04	2.91	96	0.34	11	--	4H	1W	
252.98	255.57	2.59	2.58	100	0.16	6	--	4H	1W	
255.57	257.56	1.99	1.94	97	0.34	17	--	4H	1W	
257.56	260.30	2.74	2.37	86	0.12	4	--	4H	1W	
260.30	262.13	1.83	1.75	96	0.00	0	--	4H	1W	
262.13	263.65	1.52	1.35	89	0.47	31	--	3H	1W	
263.65	265.18	1.53	1.47	96	0.49	32	--	3H	1W	
265.18	268.22	3.04	2.83	93	0.11	4	--	3H	1W	
268.22	269.75	1.53	1.41	92	0.00	0	--	3H	1W	
269.75	272.80	3.05	3.01	99	0.36	12	--	3H	1W	
272.80	274.32	1.52	1.47	97	0.12	8	--	3H	1W	
274.32	277.37	3.05	3.02	99	1.10	36	--	3H	1W	
277.37	280.42	3.05	3.05	100	2.03	67	--	3H	1W	
280.42	283.46	3.04	2.9	95	1.85	61	--	3H	1W	
283.46	286.51	3.05	2.91	95	1.56	51	--	3H	1W	
286.51	289.56	3.05	3	98	1.30	43	--	4H	1W	
289.56	292.61	3.05	2.89	95	0.89	29	--	3H	1W	
292.61	295.66	3.05	2.98	98	0.84	28	--	3H	1W	
295.66	297.79	2.13	1.78	84	0.00	0	--	3H	1W	
297.79	300.23	2.44	2.36	97	0.00	0	--	3H	1W	rubble
300.23	301.75	1.52	1.46	96	0.17	11	--	3H	1W	fault gouge/ clay
301.75	303.58	1.83	1.58	86	0.10	5	--	3H	1W	rubble zone

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
303.58	306.32	2.74	2.67	97	1.26	46	--	3H	1W	small quartz vein between joints with round mm- cm size pyrite blebs and silvery hematite (?) mineralization
306.32	309.37	3.05	3.03	99	0.59	19	--	3H	1W	
309.37	312.42	3.05	2.98	98	1.57	51	--	3H	1W	
312.42	315.47	3.05	3	98	1.63	53	--	3H	1W	
315.47	318.52	3.05	3	98	1.51	50	--	3H	1W	
318.52	321.56	3.04	3.02	99	0.64	21	--	3H	1W	
321.56	324.61	3.05	3.01	99	0.94	31	--	3H	1W	
324.61	327.66	3.05	2.99	98	2.60	85	--	3H	1W	
327.66	330.71	3.05	2.89	95	1.02	33	--	3H	1W	
330.71	333.76	3.05	3.02	99	1.19	39	--	3H	1W	possible molybdenite and graphite on fracture/ joint surface
333.76	336.80	3.04	3	99	1.42	47	--	3H	1W	
336.80	339.85	3.05	2.92	96	1.41	46	--	3H	1W	clay fault gouge
339.85	342.90	3.05	3.01	99	0.89	29	--	3H	1W	
342.90	345.95	3.05	2.97	97	1.06	35	--	3H	1W	
345.95	349.00	3.05	2.97	97	1.03	34	--	3H	1W	
349.00	352.04	3.04	2.78	91	0.63	21	--	2H	1W	
352.04	355.09	3.05	2.64	87	0.79	26	--	2H	1W	
355.09	358.14	3.05	2.62	86	0.28	9	--	3H	1W	
358.14	359.66	1.52	1.2	79	0.00	0	--	2H	1W	
359.66	362.10	2.44	2.33	95	0.00	0	--	2H	1W	
362.10	364.24	2.14	1.74	81	0.00	0	--	2H	1W	
364.24	367.28	3.04	2.75	90	1.40	46	--	3H	1W	
367.28	370.33	3.05	2.77	91	0.13	4	--	3H	1W	
370.33	373.38	3.05	2.93	96	1.50	49	--	3H	1W	
373.38	376.43	3.05	2.89	95	1.31	43	--	2H	1W	soft, clay alt. bottom 2/3 of interval
376.43	379.48	3.05	2.84	93	0.12	4	--	3H	1W	
379.48	382.52	3.04	2.94	97	0.90	30	--	3H	1W	
382.52	385.57	3.05	3.01	99	1.14	37	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
385.57	388.62	3.05	3.02	99	1.62	53	--	3H	1W	some fault gouge/ clay near end of run and visible fine grained moly in milky quartz vein
388.62	391.67	3.05	2.99	98	0.12	4	--	2H	1W	Lots of rubble, no matching joint set
391.67	394.26	2.59	2.59	100	0.59	23	--	3H	1W	
394.26	397.15	2.89	2.62	91	0.11	4	--	2H	1W	
397.15	399.13	1.98	1.7	86	0.00	0	--	2H	1W	
399.13	402.03	2.90	2.73	94	0.31	11	--	2H	1W	
402.03	403.86	1.83	1.71	93	0.00	0	--	2H	1W	
403.86	406.91	3.05	2.47	81	0.77	25	--	2H	1W	
406.91	409.96	3.05	2.7	89	0.00	0	--	2H	1W	clay fault gouge

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
13	0.028	QFP	
14	0.031	QFP	
15	0.1	QFP	
16	0.115	QFP	
17	0.097	QFP	
18	0.173	QFP	
19	0.225	QFP	
20	2.71	QFP	maybe contaminated with overburden
21	0.035	QFP	
22	0.143	QFP	
23	0.167	QFP	
24	0.108	QFP	
25	0.265	GRD	
26	0.107	GRD	
27	0.156	GRD	
28	0.159	GRD	
29	0.358	GRD	
30	0.226	GRD	
31	0.264	GRD	
32	0.375	GRD	
33	0.197	GRD	
34	0.15	GRD	
34	0.15	GRD	
35	0.117	GRD	
36	0.14	GRD	
37	0.237	GRD	
38	0.427	GRD	
39	0.318	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
40	0.256	GRD	
41	0.259	GRD	
42	0.168	GRD	
43	0.429	GRD	
44	0.555	GRD	
45	0.255	GRD	
46	0.301	GRD	
47	0.263	GRD	
48	0.397	GRD	
49	0.133	GRD	
50	0.106	QFP	
51	0.101	QFP	
52	0.166	QFP	
53	0.2	GRD	
54	0.344	GRD	
55	0.135	GRD	
56	0.215	GRD	
57	0.242	GRD	
57	0.242	GRD	
58	0.108	GRD	
59	0.121	GRD	
60	0.337	GRD	
61	0.537	GRD	
62	0.187	GRD	
63	0.317	GRD	
64	0.187	GRD	
65	0.202	GRD	
66	0.277	GRD	
67	0.455	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
68	0.194	GRD	
69	0.278	GRD	
70	0.451	GRD	
71	1.42	GRD	
72	1.41	GRD	
73	0.274	GRD	
74	0.195	GRD	
75	0.286	GRD	
76	0.848	GRD	
77	1.225	GRD	
78	0.206	GRD	
79	0.243	GRD	
80	1.031	GRD	
81	1.03	GRD	
82	2.66	GRD	
83	1.17	GRD	
84	11.6	GRD	double checked this value
85	1.092	GRD	
86	0.316	GRD	
87	0.791	GRD	
88	0.298	GRD	
89	0.204	GRD	
90	0.115	GRD	
91	0.437	GRD	
92	1.321	GRD	
93	0.148	GRD	
94	0.167	GRD	
95	3.053	GRD	
96	1.017	GRD	
97	1.05	GRD	
98	0.578	GRD	
99	0.134	GRD	
100	0.12	GRD	
101	0.13	GRD	
102	0.313	GRD	
103	0.813	GRD	
104	5.882	GRD	
105	0.21	GRD	
106	0.28	GRD	
107	0.156	GRD	
108	0.106	GRD	
109	0.123	GRD	
110	0.11	GRD	
111	0.173	GRD	
112	0.11	GRD	
113	0.095	QFP	
114	0.149	GRD	
115	0.159	GRD	
116	0.122	GRD	
117	0.579	GRD	
118	0.125	GRD	
119	0.211	GRD	
120	0.236	GRD	
121	0.562	GRD	
122	0.031	GRD	
123	0.1	GRD	
124	0.326	GRD	
125	0.104	GRD	
126	0.224	GRD	
127	0.147	GRD	
128	0.147	GRD	
129	0.12	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
130	0.126	GRD	
131	0.126	GRD	
132	0.328	GRD	
133	0.58	GRD	
134	0.8	GRD	
135	2.107	GRD	
136	1.398	GRD	
137	0.208	GRD	
138	2.586	GRD	
139	2.383	GRD	
140	0.278	GRD	
141	0.601	GRD	
142	0.247	GRD	
143	0.262	GRD	
144	0.205	GRD	
145	0.149	GRD	
146	0.296	GRD	
147	0.271	GRD	
148	0.128	GRD	
149	0.176	GRD	
150	0.16	GRD	
151	0.259	GRD	
152	0.547	GRD	
153	0.134	GRD	
154	0.135	GRD	
155	0.551	GRD	
156	0.429	GRD	
157	0.199	GRD	
158	0.201	GRD	
159	0.545	GRD	
160	0.051	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
161	0.119	GRD	
162	0.041	GRD	
163	0.605	GRD	
164	0.149	GRD	
165	0.139	GRD	
166	0.199	GRD	
167	0.312	GRD	
168	0.213	GRD	
169	0.167	GRD	
170	0.351	QFP	
171	0.231	GRD	
172	0.302	GRD	
173	0.152	GRD	
174	0.207	GRD	
175	0.162	GRD	
176	0.283	GRD	
177	0.865	GRD	
178	0.55	GRD	
179	0.189	QFP	
180	0.128	QFP	
181	0.046	QFP	
182	0.258	QFP	
183	0.266	QFP	
184	0.248	QFP	
185	0.168	QFP	
186	0.132	QFP	
186	0.132	GRD	
187	0.233	GRD	
188	0.589	GRD	
189	0.953	GRD	
190	0.559	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
191	0.296	GRD	
192	0.133	GRD	
193	0.352	GRD	
194	0.338	GRD	
195	0.335	GRD	
196	1.005	GRD	
197	0.915	GRD	
198	1.158	GRD	
199	0.772	GRD	
200	1.393	GRD	
201	0.49	GRD	
202	0.053	GRD	
203	0.135	QFP	
204	0.215	QFP	
205	0.12	QFP	
206	0.071	GRD	
207	0.446	GRD	
208	0.103	GRD	
209	0.152	GRD	
210	0.529	GRD	
211	0.533	GRD	
212	0.113	GRD	
213	0.163	GRD	
214	0.042	GRD	
215	0.19	QFP	
216	0.183	QFP	
217	0.1	QFP	
218	0.176	QFP	
219	0.427	QFP	
220	0.091	QFP	
221	0.044	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
222	0.131	QFP	
223	0.316	QFP	
224	0.107	QFP	
225	0.101	QFP	
226	0.251	QFP	
227	0.517	QFP	
228	0.127	QFP	
229	0.12	QFP	
230	0.113	QFP	
231	0.135	QFP	
232	0.224	QFP	
233	0.044	QFP	
234	0.037	QFP	
235	0.202	QFP	
236	0.032	QFP	
237	0.108	QFP	
238	0.136	QFP	
239	0.164	QFP	
240	0.14	QFP	
241	0.269	QFP	
242	0.253	QFP	
243	0.204	QFP	
244	0.045	QFP	
245	0.048	QFP	
246	0.092	QFP	
247	0.14	QFP	
248	0.01	QFP	
249	0.058	QFP	
250	0.243	QFP	
251	0.111	QFP	
252	0.061	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
253	0.102	QFP	
254	0.139	QFP	
255	0.162	QFP	
256	0.059	QFP	
257	0.517	QFP	
258	0.442	QFP	
259	0.496	QFP	
260	0.049	QFP	
261	0.031	GRD	
262	0.205	QFP	
262	0.205	GRD	
263	0.179	QFP	
264	0.567	QFP	
265	0.512	QFP	
266	0.148	QFP	
267	0.158	QFP	
268	0.515	QFP	
269	0.055	QFP	
270	0.178	QFP	
271	0.109	GRD	
272	0.117	GRD	
273	3.513	GRD	
274	0.234	GRD	
275	0.2	GRD	
276	0.778	GRD	
277	0.195	GRD	
277	0.195	GRD	
278	0.164	GRD	
279	0.152	GRD	
280	0.118	GRD	
281	0.29	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
282	0.004	GRD	
283	0.046	GRD	
284	0.098	GRD	
285	0.031	GRD	
286	0.209	QFP	
287	0.108	QFP	
288	0.123	QFP	
289	0.128	QFP	
290	0.05	QFP	
291	0.106	QFP	
292	0.154	QFP	
293	0.099	QFP	
294	0	QFP	rubble
295	0.107	QFP	
296	0	QFP	rubble
297	0.052	QFP	
298	0	QFP	rubble
299	0.096	QFP	
300	0.052	QFP	
301	0	QFP	rubble
302	0.13	QFP	
303	0.076	QFP	
304	0.101	QFP	
305	0.043	QFP	
306	0.129	QFP	
307	0.206	QFP	
308	0.147	QFP	
309	0.296	GRD	
310	0.03	GRD	
311	0.13	GRD	
312	0.225	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
313	0.047	GRD	
314	0.11	GRD	
315	0.088	GRD	
316	0.097	GRD	
317	0.112	GRD	
318	0.177	GRD	
319	0.217	GRD	
320	0.252	GRD	
321	0.146	GRD	
322	0.229	GRD	
323	0.312	GRD	
324	0.168	GRD	
325	0.032	GRD	
326	0.12	GRD	
327	0.044	GRD	
328	0.258	GRD	
329	0.133	GRD	
330	0.145	GRD	
331	0.045	GRD	
332	0.404	GRD	
333	0.048	GRD	
334	0.184	GRD	
335	0.125	GRD	
336	0.215	GRD	
337	0.19	GRD	
338	0.132	GRD	
339	0.124	GRD	
340	0.044	GRD	
341	0.151	GRD	
342	0.337	GRD	
343	0.024	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
344	0.118	GRD	
345	0.055	GRD	
346	0.061	GRD	
347	0.038	GRD	
348	0.122	GRD	
349	0.36	GRD	
350	0.131	QFP	
351	0.125	QFP	
352	0	QFP	rubble
353	0	QFP	rubble
354	0.186	QFP	
355	0	QFP	rubble
356	0.141	QFP	
357	0.11	QFP	
358	0	QFP	rubble
359	0.226	QFP	
360	0.149	QFP	
361	0.674	QFP	
362	0	QFP	rubble
363	0.208	QFP	
364	0.175	QFP	
365	0.103	QFP	
366	0.235	GRD	
367	0.109	GRD	
368	0.725	GRD	
369	0.244	GRD	
370	0.167	GRD	
371	0.115	GRD	
372	0.131	GRD	
373	0.102	GRD	
374	0.285	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
375	0.118	GRD	
376	0.116	GRD	
377	0.11	GRD	
378	0.208	GRD	
379	0.609	GRD	
380	0.469	GRD	
381	0.204	GRD	
382	0.147	GRD	
383	0.111	GRD	
384	0.122	GRD	
385	0.255	GRD	
386	0.179	GRD	
387	0.107	GRD	
388	0.105	GRD	
389	0.438	GRD	
390	0.201	GRD	
391	0.357	GRD	
392	0.126	GRD	
393	0.137	GRD	
394	0.119	GRD	
395	0.029	GRD	
396	0.195	GRD	
397	0.106	GRD	
398	0.075	GRD	
399	0.267	GRD	
400	0.023	GRD	
401	0.025	GRD	
402	0.267	GRD	
403	0.117	GRD	
404	0.161	GRD	
405	0.009	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
406	0.052	GRD	
407	0.03	GRD	
408	0.291	GRD	
409	0.252	GRD	

KL -20-481

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W599297	☐	20-035	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	R499497	☐	20-032	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599988	☐	20-032	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596620	☐	20-040	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596606	☐	20-040	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596602	☐	20-040	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596315	☐	20-039	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596310	☐	20-039	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596302	☐	20-039	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595927	☐	20-035	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595920	☐	20-035	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W599995	☐	20-032	Low Grade	Klaza20 20-B	☐	☐	☐
15.00	18.00	3.00	QFP	2.40	80	W599984	☐	20-029	Low Grade		☐	☐	☐
18.00	21.00	3.00	QFP	2.70	90	W599985	☐	20-032	Low Grade		☐	☐	☐
21.00	23.00	2.00	QFP	2.00	100	W599986	☐	20-032	Low Grade		☐	☐	☐
23.00	24.70	1.70	QFP	1.40	82	W599987	☐	20-032	Low Grade		☐	☐	☐
24.70	27.00	2.30	GRD, QFP	1.95	85	W599989	☐	20-032	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
27.00	30.00	3.00	GRD	3.00	100	W599990	☐	20-032	Low Grade		☐	☐	☐
30.00	33.00	3.00	GRD	2.90	97	W599991	☐	20-032	Low Grade		☐	☐	☐
33.00	36.00	3.00	GRD	2.90	97	W599992	☐	20-032	Low Grade		☐	☐	☐
36.00	39.00	3.00	GRD	2.80	93	W599993	☐	20-032	Low Grade		☐	☐	☐
39.00	42.00	3.00	GRD	3.00	100	W599994	☐	20-032	Low Grade		☐	☐	☐
42.00	45.00	3.00	GRD	2.90	97	W599996	☐	20-032	Low Grade		☐	☐	☐
45.00	48.00	3.00	GRD	2.80	93	W599997	☐	20-032	Low Grade		☐	☐	☐
48.00	49.67	1.67	GRD	1.67	100	W599998	☐	20-032	Low Grade		☐	☐	☐
49.67	52.10	2.43	QFP	2.30	95	W599999	☐	20-032	Low Grade		☐	☐	☐
49.67	52.10	2.43	QFP	2.30	95	W600000	☐	20-032	Low Grade		☐	☑	☐
52.10	55.00	2.90	QFP, GRD	2.90	100	R499479	☐	20-032	Low Grade		☐	☐	☐
55.00	58.00	3.00	GRD	3.00	100	R499480	☐	20-032	Low Grade		☐	☐	☐
58.00	61.00	3.00	GRD	2.85	95	R499481	☐	20-032	Low Grade		☐	☐	☐
61.00	64.00	3.00	GRD	2.95	98	R499482	☐	20-032	Low Grade		☐	☐	☐
64.00	67.00	3.00	GRD	2.80	93	R499483	☐	20-032	Low Grade		☐	☐	☐
67.00	70.00	3.00	GRD	2.95	98	R499484	☐	20-032	Low Grade		☐	☐	☐
70.00	73.00	3.00	GRD	2.87	96	R499485	☐	20-032	Low Grade		☐	☐	☐
73.00	76.00	3.00	GRD	3.00	100	R499486	☐	20-032	Low Grade		☐	☐	☐
76.00	79.00	3.00	GRD	3.00	100	R499487	☐	20-032	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
76.00	79.00	3.00	GRD	3.00	100	R499488	☐	20-032	Low Grade		☐	☐	☑
79.00	82.00	3.00	GRD	3.00	100	R499489	☐	20-032	Low Grade		☐	☐	☐
82.00	85.00	3.00	GRD	3.00	100	R499490	☐	20-032	Low Grade		☐	☐	☐
85.00	88.00	3.00	GRD	3.00	100	R499491	☐	20-032	Low Grade		☐	☐	☐
88.00	90.00	2.00	GRD	2.00	100	R499492	☐	20-032	Low Grade		☐	☐	☐
90.00	93.00	3.00	GRD	3.00	100	R499493	☐	20-032	Low Grade		☐	☐	☐
93.00	95.00	2.00	GRD	1.90	95	R499494	☐	20-032	Low Grade		☐	☐	☐
95.00	96.85	1.85	GRD	1.85	100	R499495	☐	20-032	Low Grade		☐	☐	☐
96.85	99.00	2.15	GRD, GRD	2.02	94	R499496	☐	20-032	Low Grade		☐	☐	☐
99.00	102.00	3.00	GRD	3.00	100	R499498	☐	20-032	Low Grade		☐	☐	☐
102.00	104.15	2.15	GRD	2.15	100	R499499	☐	20-032	Low Grade		☐	☐	☐
104.15	107.15	3.00	GRD, GRD	3.00	100	R499500	☐	20-032	Low Grade		☐	☐	☐
107.15	110.00	2.85	GRD	2.85	100	W599290	☐	20-032	Low Grade		☐	☐	☐
110.00	111.85	1.85	GRD	1.85	100	W599291	☐	20-032	Low Grade		☐	☐	☐
111.85	113.25	1.40	GRD	1.40	100	W599292	☐	20-035	Low Grade		☐	☐	☐
113.25	116.25	3.00	GRD	2.55	85	W599293	☐	20-035	Low Grade		☐	☐	☐
116.25	119.00	2.75	GRD	2.62	95	W599294	☐	20-035	Low Grade		☐	☐	☐
119.00	122.00	3.00	GRD	3.00	100	W599295	☐	20-035	Low Grade		☐	☐	☐
122.00	125.00	3.00	GRD	3.00	100	W599296	☐	20-035	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
125.00	128.00	3.00	GRD	3.00	100	W599298	☐	20-035	Low Grade		☐	☐	☐
128.00	131.00	3.00	GRD	2.95	98	W599299	☐	20-035	Low Grade		☐	☐	☐
131.00	134.00	3.00	GRD	2.87	96	W599300	☐	20-035	Low Grade		☐	☐	☐
134.00	137.00	3.00	GRD	3.00	100	W595916	☐	20-035	Low Grade		☐	☐	☐
137.00	140.00	3.00	GRD	3.00	100	W595917	☐	20-035	Low Grade		☐	☐	☐
140.00	143.00	3.00	GRD	3.00	100	W595918	☐	20-035	Low Grade		☐	☐	☐
143.00	146.00	3.00	GRD	2.95	98	W595919	☐	20-035	Low Grade		☐	☐	☐
146.00	149.00	3.00	GRD	3.00	100	W595921	☐	20-035	Low Grade		☐	☐	☐
149.00	152.00	3.00	GRD	2.95	98	W595922	☐	20-035	Low Grade		☐	☐	☐
152.00	155.00	3.00	GRD	3.00	100	W595923	☐	20-035	Low Grade		☐	☐	☐
155.00	158.00	3.00	GRD	2.95	98	W595924	☐	20-035	Low Grade		☐	☐	☐
158.00	161.00	3.00	GRD	2.95	98	W595925	☐	20-035	Low Grade		☐	☐	☐
161.00	164.00	3.00	GRD	3.00	100	W595926	☐	20-035	Low Grade		☐	☐	☐
164.00	167.00	3.00	GRD	3.00	100	W595928	☐	20-035	Low Grade		☐	☐	☐
167.00	169.64	2.64	GRD	2.64	100	W595929	☐	20-035	Low Grade		☐	☐	☐
169.64	170.14	0.50	GRD	0.50	100	W595930	☐	20-035	Low Grade		☐	☐	☐
170.14	173.00	2.86	GRD	2.86	100	W595931	☐	20-035	Low Grade		☐	☐	☐
173.00	176.00	3.00	GRD	2.86	95	W595932	☐	20-035	Low Grade		☐	☐	☐
173.00	176.00	3.00	GRD	2.86	95	W595933	☐	20-035	Low Grade		☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
176.00	178.68	2.68	GRD	2.68	100	W595934	☐	20-035	Low Grade		☐	☐	☐
178.68	181.00	2.32	QFP	2.21	95	W595935	☐	20-035	Low Grade		☐	☐	☐
181.00	184.00	3.00	QFP	2.86	95	W595936	☐	20-035	Low Grade		☐	☐	☐
184.00	186.40	2.40	QFP	2.27	95	W595937	☐	20-035	Low Grade		☐	☐	☐
184.00	186.40	2.40	QFP	2.27	95	W595938	☐	20-035	Low Grade		☐	☑	☐
186.40	188.00	1.60	GRD	1.55	97	W595939	☐	20-035	Low Grade		☐	☐	☐
188.00	190.00	2.00	GRD	1.96	98	W595940	☐	20-035	Low Grade		☐	☐	☐
190.00	193.00	3.00	GRD	2.91	97	W595941	☐	20-035	Low Grade		☐	☐	☐
193.00	196.00	3.00	GRD	2.95	98	W595942	☐	20-035	Low Grade		☐	☐	☐
196.00	199.00	3.00	GRD	3.00	100	W595943	☐	20-035	Low Grade		☐	☐	☐
199.00	202.00	3.00	GRD	3.00	100	W595944	☐	20-035	Low Grade		☐	☐	☐
202.00	205.00	3.00	GRD	3.00	100	W595945	☐	20-035	Low Grade		☐	☐	☐
205.00	208.00	3.00	QFP	2.94	98	W595946	☐	20-035	Low Grade		☐	☐	☐
208.00	211.00	3.00	GRD	2.94	98	W595947	☐	20-039	Low Grade		☐	☐	☐
211.00	214.00	3.00	GRD	2.85	95	W595948	☐	20-039	Low Grade		☐	☐	☐
214.00	217.00	3.00	GRD	2.84	95	W595949	☐	20-039	Low Grade		☐	☐	☐
217.00	220.00	3.00	QFP	2.85	95	W595950	☐	20-039	Low Grade		☐	☐	☐
220.00	223.00	3.00	QFP	3.00	100	W596301	☐	20-039	Low Grade		☐	☐	☐
223.00	226.00	3.00	QFP	3.00	100	W596303	☐	20-039	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
226.00	229.00	3.00	QFP	2.95	98	W596304	☐	20-039	Low Grade		☐	☐	☐
229.00	231.70	2.70	QFP	2.58	96	W596305	☐	20-039	Low Grade		☐	☐	☐
231.70	234.70	3.00	QFP, QFP	2.35	78	W596306	☐	20-039	Low Grade		☐	☐	☐
234.70	237.70	3.00	QFP	2.30	77	W596307	☐	20-039	Low Grade		☐	☐	☐
237.70	240.70	3.00	QFP	2.47	82	W596308	☐	20-039	Low Grade		☐	☐	☐
240.70	243.55	2.85	QFP	2.82	99	W596309	☐	20-039	Low Grade		☐	☐	☐
243.55	246.00	2.45	QFP, QFP	2.45	100	W596311	☐	20-039	Low Grade		☐	☐	☐
246.00	249.00	3.00	QFP	3.00	100	W596312	☐	20-039	Low Grade		☐	☐	☐
249.00	252.00	3.00	QFP	2.90	97	W596313	☐	20-039	Low Grade		☐	☐	☐
252.00	255.00	3.00	QFP	2.95	98	W596314	☐	20-039	Low Grade		☐	☐	☐
255.00	257.00	2.00	QFP	2.00	100	W596316	☐	20-039	Low Grade		☐	☐	☐
257.00	259.00	2.00	QFP	1.95	98	W596317	☐	20-039	Low Grade		☐	☐	☐
259.00	262.00	3.00	QFP	2.95	98	W596318	☐	20-039	Low Grade		☐	☐	☐
262.00	265.00	3.00	QFP, GRD	2.95	98	W596319	☐	20-039	Low Grade		☐	☐	☐
265.00	268.00	3.00	QFP	2.85	95	W596320	☐	20-039	Low Grade		☐	☐	☐
268.00	271.00	3.00	QFP	2.85	95	W596321	☐	20-039	Low Grade		☐	☐	☐
271.00	274.00	3.00	GRD	2.85	95	W596322	☐	20-039	Low Grade		☐	☐	☐
274.00	277.00	3.00	GRD	3.00	100	W596323	☐	20-039	Low Grade		☐	☐	☐
274.00	277.00	3.00	GRD	3.00	100	W596324	☐	20-039	Low Grade		☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
277.00	280.00	3.00	GRD, GRD	3.00	100	W596325	☐	20-039	Low Grade		☐	☐	☐
280.00	283.00	3.00	GRD	2.95	98	W596326	☐	20-039	Low Grade		☐	☐	☐
283.00	285.75	2.75	GRD	2.75	100	W596327	☐	20-039	Low Grade		☐	☐	☐
285.75	288.00	2.25	QFP, GRD	2.25	100	W596328	☐	20-039	Low Grade		☐	☐	☐
285.75	288.00	2.25	QFP, GRD	2.25	100	W596329	☐	20-039	Low Grade		☐	☑	☐
288.00	291.00	3.00	QFP	3.00	100	W596330	☐	20-039	Low Grade		☐	☐	☐
291.00	294.00	3.00	QFP	2.96	99	W596331	☐	20-039	Low Grade		☐	☐	☐
294.00	297.00	3.00	QFP	3.00	100	W596332	☐	20-039	Low Grade		☐	☐	☐
297.00	300.00	3.00	QFP	2.95	98	W596333	☐	20-039	Low Grade		☐	☐	☐
300.00	303.00	3.00	QFP	2.95	98	W596334	☐	20-039	Low Grade		☐	☐	☐
303.00	306.00	3.00	QFP	3.00	100	W596335	☐	20-039	Low Grade		☐	☐	☐
306.00	308.65	2.65	QFP	2.65	100	W596336	☐	20-039	Low Grade		☐	☐	☐
308.65	311.00	2.35	QFP, GRD	2.35	100	W596337	☐	20-040	Low Grade		☐	☐	☐
311.00	314.00	3.00	GRD	3.00	100	W596338	☐	20-040	Low Grade		☐	☐	☐
311.00	314.00	3.00	GRD	3.00	100	W596339	☐	20-040	Low Grade		☐	☑	☐
314.00	317.00	3.00	GRD	2.98	99	W596340	☐	20-040	Low Grade		☐	☐	☐
317.00	320.00	3.00	GRD	3.00	100	W596341	☐	20-040	Low Grade		☐	☐	☐
320.00	323.00	3.00	GRD	3.00	100	W596342	☐	20-040	Low Grade		☐	☐	☐
323.00	326.00	3.00	GRD	3.00	100	W596343	☐	20-040	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
326.00	329.00	3.00	GRD	3.00	100	W596344	☐	20-040	Low Grade		☐	☐	☐
329.00	332.00	3.00	GRD	2.85	95	W596345	☐	20-040	Low Grade		☐	☐	☐
332.00	335.00	3.00	GRD	3.00	100	W596346	☐	20-040	Low Grade		☐	☐	☐
335.00	338.00	3.00	GRD	2.85	95	W596347	☐	20-040	Low Grade		☐	☐	☐
338.00	341.00	3.00	GRD	3.00	100	W596348	☐	20-040	Low Grade		☐	☐	☐
341.00	344.00	3.00	GRD	2.90	97	W596349	☐	20-040	Low Grade		☐	☐	☐
344.00	347.00	3.00	GRD	3.00	100	W596350	☐	20-040	Low Grade		☐	☐	☐
347.00	349.40	2.40	GRD	2.27	95	W596601	☐	20-040	Low Grade		☐	☐	☐
349.40	352.00	2.60	QFP, GRD	2.60	100	W596603	☐	20-040	Low Grade		☐	☐	☐
352.00	355.00	3.00	QFP	2.81	94	W596604	☐	20-040	Low Grade		☐	☐	☐
355.00	358.00	3.00	QFP	2.95	98	W596605	☐	20-040	Low Grade		☐	☐	☐
358.00	361.00	3.00	QFP	3.00	100	W596607	☐	20-040	Low Grade		☐	☐	☐
361.00	364.00	3.00	QFP	2.92	97	W596608	☐	20-040	Low Grade		☐	☐	☐
361.00	364.00	3.00	QFP	2.92	97	W596609	☐	20-040	Low Grade		☐	☐	☑
364.00	365.17	1.17	QFP	1.17	100	W596610	☐	20-040	Low Grade		☐	☐	☐
365.17	368.00	2.83	QFP, GRD	2.80	99	W596611	☐	20-040	Low Grade		☐	☐	☐
368.00	371.00	3.00	GRD	3.00	100	W596612	☐	20-040	Low Grade		☐	☐	☐
371.00	374.00	3.00	GRD	3.00	100	W596613	☐	20-040	Low Grade		☐	☐	☐
374.00	377.00	3.00	GRD	3.00	100	W596614	☐	20-040	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
377.00	380.00	3.00	GRD	3.00	100	W596615	☐	20-040	Low Grade		☐	☐	☐
380.00	382.00	2.00	GRD	2.00	100	W596616	☐	20-040	Low Grade		☐	☐	☐
382.00	385.00	3.00	GRD	2.95	98	W596617	☐	20-040	Low Grade		☐	☐	☐
385.00	387.00	2.00	GRD	2.00	100	W596618	☐	20-040	Low Grade		☐	☐	☐
387.00	387.67	0.67	GRD	0.67	100	W596619	☐	20-040	Low Grade		☐	☐	☐
387.67	390.00	2.33	GRD	2.33	100	W596621	☐	20-040	Low Grade		☐	☐	☐
390.00	393.00	3.00	GRD	2.95	98	W596622	☐	20-040	Low Grade		☐	☐	☐
393.00	396.00	3.00	GRD	3.00	100	W596623	☐	20-040	Low Grade		☐	☐	☐
396.00	399.00	3.00	GRD	2.90	97	W596624	☐	20-040	Low Grade		☐	☐	☐
399.00	402.00	3.00	GRD	2.95	98	W596625	☐	20-040	Low Grade		☐	☐	☐
402.00	405.00	3.00	GRD	2.75	92	W596626	☐	20-040	Low Grade		☐	☐	☐
405.00	408.00	3.00	GRD	2.65	88	W596627	☐	20-042	Low Grade		☐	☐	☐
408.00	409.95	1.95	GRD	1.85	95	W596628	☐	20-042	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-032	R499497	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-035	W595920	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-035	W595927	0.00	0.00	2.82	80	☐	☐	☐	☑ Klaza2020-B	klaza b
20-039	W596302	0.00	0.00	0.67	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-039	W596310	0.00	0.00	2.87	90	☐	☐	☐	☑ Klaza2020-B	klaza b
20-039	W596315	0.00	0.00	0.01	20	☐	☐	☑	☐	blank
20-040	W596602	0.00	0.00	0.63	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-040	W596606	0.00	0.00	2.83	420	☐	☐	☐	☑ Klaza2020-B	klaza b
20-040	W596620	0.00	0.00	0.00	20	☐	☐	☑	☐	blnk
20-035	W599297	0.00	0.00	0.65	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-032	W599988	0.00	0.00	0.62	280	☐	☐	☐	☑ Klaza2020-A	Klaza a
20-032	W599995	0.00	0.00	3.18	120	☐	☐	☐	☑ Klaza2020-B	klaza b
20-029	W599984	15.00	18.00	0.01	1090	☐	☐	☐	☐	
20-032	W599985	18.00	21.00	0.01	1130	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-032	W599986	21.00	23.00	0.01	1060	☐	☐	☐	☐	
20-032	W599987	23.00	24.70	0.01	810	☐	☐	☐	☐	
20-032	W599989	24.70	27.00	0.05	720	☐	☐	☐	☐	
20-032	W599990	27.00	30.00	0.03	510	☐	☐	☐	☐	
20-032	W599991	30.00	33.00	0.03	970	☐	☐	☐	☐	
20-032	W599992	33.00	36.00	0.05	190	☐	☐	☐	☐	
20-032	W599993	36.00	39.00	0.01	340	☐	☐	☐	☐	
20-032	W599994	39.00	42.00	0.04	180	☐	☐	☐	☐	
20-032	W599996	42.00	45.00	0.02	580	☐	☐	☐	☐	
20-032	W599997	45.00	48.00	0.02	650	☐	☐	☐	☐	
20-032	W599998	48.00	49.67	0.02	590	☐	☐	☐	☐	
20-032	W599999	49.67	52.10	0.01	310	☐	☐	☐	☐	
20-032	W600000	49.67	52.10	0.01	230	☑	☐	☐	☐	quarter dup
20-032	R499479	52.10	55.00	0.03	110	☐	☐	☐	☐	
20-032	R499480	55.00	58.00	0.06	160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-032	R499481	58.00	61.00	0.04	150	☐	☐	☐	☐	
20-032	R499482	61.00	64.00	0.03	450	☐	☐	☐	☐	
20-032	R499483	64.00	67.00	0.04	410	☐	☐	☐	☐	
20-032	R499484	67.00	70.00	0.03	470	☐	☐	☐	☐	
20-032	R499485	70.00	73.00	0.04	290	☐	☐	☐	☐	
20-032	R499486	73.00	76.00	0.03	280	☐	☐	☐	☐	
20-032	R499487	76.00	79.00	0.08	1040	☐	☐	☐	☐	
20-032	R499488	76.00	79.00	0.08	690	☐	☑	☐	☐	coarse rej dup
20-032	R499489	79.00	82.00	0.03	310	☐	☐	☐	☐	
20-032	R499490	82.00	85.00	0.04	1000	☐	☐	☐	☐	
20-032	R499491	85.00	88.00	0.04	860	☐	☐	☐	☐	
20-032	R499492	88.00	90.00	0.02	460	☐	☐	☐	☐	
20-032	R499493	90.00	93.00	0.04	520	☐	☐	☐	☐	
20-032	R499494	93.00	95.00	0.02	560	☐	☐	☐	☐	
20-032	R499495	95.00	96.85	0.02	700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-032	R499496	96.85	99.00	0.06	590	☐	☐	☐	☐	
20-032	R499498	99.00	102.00	0.20	200	☐	☐	☐	☐	
20-032	R499499	102.00	104.15	0.14	220	☐	☐	☐	☐	
20-032	R499500	104.15	107.15	0.03	140	☐	☐	☐	☐	
20-032	W599290	107.15	110.00	0.02	240	☐	☐	☐	☐	
20-032	W599291	110.00	111.85	0.27	70	☐	☐	☐	☐	
20-035	W599292	111.85	113.25	0.04	150	☐	☐	☐	☐	
20-035	W599293	113.25	116.25	0.04	390	☐	☐	☐	☐	
20-035	W599294	116.25	119.00	0.02	350	☐	☐	☐	☐	
20-035	W599295	119.00	122.00	0.02	590	☐	☐	☐	☐	
20-035	W599296	122.00	125.00	0.02	430	☐	☐	☐	☐	
20-035	W599298	125.00	128.00	0.02	330	☐	☐	☐	☐	
20-035	W599299	128.00	131.00	0.02	170	☐	☐	☐	☐	
20-035	W599300	131.00	134.00	0.03	880	☐	☐	☐	☐	
20-035	W595916	134.00	137.00	0.04	950	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-035	W595917	137.00	140.00	0.04	1160	☐	☐	☐	☐	
20-035	W595918	140.00	143.00	0.03	250	☐	☐	☐	☐	
20-035	W595919	143.00	146.00	0.03	170	☐	☐	☐	☐	
20-035	W595921	146.00	149.00	0.03	110	☐	☐	☐	☐	
20-035	W595922	149.00	152.00	0.03	110	☐	☐	☐	☐	
20-035	W595923	152.00	155.00	0.10	150	☐	☐	☐	☐	
20-035	W595924	155.00	158.00	0.04	260	☐	☐	☐	☐	
20-035	W595925	158.00	161.00	0.02	190	☐	☐	☐	☐	
20-035	W595926	161.00	164.00	0.02	130	☐	☐	☐	☐	
20-035	W595928	164.00	167.00	0.04	210	☐	☐	☐	☐	
20-035	W595929	167.00	169.64	0.03	690	☐	☐	☐	☐	
20-035	W595930	169.64	170.14	0.01	360	☐	☐	☐	☐	
20-035	W595931	170.14	173.00	0.04	330	☐	☐	☐	☐	
20-035	W595932	173.00	176.00	0.02	260	☐	☐	☐	☐	
20-035	W595933	173.00	176.00	0.03	320	☑	☐	☐	☐	quarter dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-035	W595934	176.00	178.68	0.03	380	☐	☐	☐	☐	
20-035	W595935	178.68	181.00	0.02	170	☐	☐	☐	☐	
20-035	W595936	181.00	184.00	0.01	150	☐	☐	☐	☐	
20-035	W595937	184.00	186.40	0.02	200	☐	☐	☐	☐	
20-035	W595938	184.00	186.40	0.02	240	☑	☐	☐	☐	Coarse Dup
20-035	W595939	186.40	188.00	0.02	260	☐	☐	☐	☐	
20-035	W595940	188.00	190.00	0.02	290	☐	☐	☐	☐	
20-035	W595941	190.00	193.00	0.02	420	☐	☐	☐	☐	
20-035	W595942	193.00	196.00	0.02	270	☐	☐	☐	☐	
20-035	W595943	196.00	199.00	0.03	650	☐	☐	☐	☐	
20-035	W595944	199.00	202.00	0.03	160	☐	☐	☐	☐	
20-035	W595945	202.00	205.00	0.03	310	☐	☐	☐	☐	
20-035	W595946	205.00	208.00	0.04	200	☐	☐	☐	☐	
20-039	W595947	208.00	211.00	0.03	110	☐	☐	☐	☐	
20-039	W595948	211.00	214.00	0.04	200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-039	W595949	214.00	217.00	0.01	220	☐	☐	☐	☐	
20-039	W595950	217.00	220.00	0.03	230	☐	☐	☐	☐	
20-039	W596301	220.00	223.00	0.03	170	☐	☐	☐	☐	
20-039	W596303	223.00	226.00	0.03	110	☐	☐	☐	☐	
20-039	W596304	226.00	229.00	0.05	350	☐	☐	☐	☐	
20-039	W596305	229.00	231.70	0.02	380	☐	☐	☐	☐	
20-039	W596306	231.70	234.70	0.01	480	☐	☐	☐	☐	
20-039	W596307	234.70	237.70	0.02	370	☐	☐	☐	☐	
20-039	W596308	237.70	240.70	0.01	330	☐	☐	☐	☐	
20-039	W596309	240.70	243.55	0.01	460	☐	☐	☐	☐	
20-039	W596311	243.55	246.00	0.02	180	☐	☐	☐	☐	
20-039	W596312	246.00	249.00	0.01	110	☐	☐	☐	☐	
20-039	W596313	249.00	252.00	0.01	210	☐	☐	☐	☐	
20-039	W596314	252.00	255.00	0.01	340	☐	☐	☐	☐	
20-039	W596316	255.00	257.00	0.01	550	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-039	W596317	257.00	259.00	0.01	280	☐	☐	☐	☐	
20-039	W596318	259.00	262.00	0.01	130	☐	☐	☐	☐	
20-039	W596319	262.00	265.00	0.01	250	☐	☐	☐	☐	
20-039	W596320	265.00	268.00	0.01	260	☐	☐	☐	☐	
20-039	W596321	268.00	271.00	0.01	140	☐	☐	☐	☐	
20-039	W596322	271.00	274.00	0.02	200	☐	☐	☐	☐	
20-039	W596323	274.00	277.00	0.03	230	☐	☐	☐	☐	
20-039	W596324	274.00	277.00	0.03	290	☐	☑	☐	☐	coarse dup
20-039	W596325	277.00	280.00	0.02	90	☐	☐	☐	☐	
20-039	W596326	280.00	283.00	0.02	280	☐	☐	☐	☐	
20-039	W596327	283.00	285.75	0.02	290	☐	☐	☐	☐	
20-039	W596328	285.75	288.00	0.02	410	☐	☐	☐	☐	
20-039	W596329	285.75	288.00	0.02	350	☑	☐	☐	☐	quarter dup
20-039	W596330	288.00	291.00	0.01	490	☐	☐	☐	☐	
20-039	W596331	291.00	294.00	0.03	450	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-039	W596332	294.00	297.00	0.03	600	☐	☐	☐	☐	
20-039	W596333	297.00	300.00	0.02	600	☐	☐	☐	☐	
20-039	W596334	300.00	303.00	0.02	290	☐	☐	☐	☐	
20-039	W596335	303.00	306.00	0.03	310	☐	☐	☐	☐	
20-039	W596336	306.00	308.65	0.01	310	☐	☐	☐	☐	
20-040	W596337	308.65	311.00	0.01	110	☐	☐	☐	☐	
20-040	W596338	311.00	314.00	0.02	80	☐	☐	☐	☐	
20-040	W596339	311.00	314.00	0.11	80	☑	☐	☐	☐	quarter dup
20-040	W596340	314.00	317.00	0.01	160	☐	☐	☐	☐	
20-040	W596341	317.00	320.00	0.01	250	☐	☐	☐	☐	
20-040	W596342	320.00	323.00	0.01	150	☐	☐	☐	☐	
20-040	W596343	323.00	326.00	0.02	250	☐	☐	☐	☐	
20-040	W596344	326.00	329.00	0.02	60	☐	☐	☐	☐	
20-040	W596345	329.00	332.00	0.04	70	☐	☐	☐	☐	
20-040	W596346	332.00	335.00	0.02	160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-040	W596347	335.00	338.00	0.02	290	☐	☐	☐	☐	
20-040	W596348	338.00	341.00	0.03	350	☐	☐	☐	☐	
20-040	W596349	341.00	344.00	0.02	470	☐	☐	☐	☐	
20-040	W596350	344.00	347.00	0.02	180	☐	☐	☐	☐	
20-040	W596601	347.00	349.40	0.03	130	☐	☐	☐	☐	
20-040	W596603	349.40	352.00	0.02	100	☐	☐	☐	☐	
20-040	W596604	352.00	355.00	0.01	210	☐	☐	☐	☐	
20-040	W596605	355.00	358.00	0.01	170	☐	☐	☐	☐	
20-040	W596607	358.00	361.00	0.01	260	☐	☐	☐	☐	
20-040	W596608	361.00	364.00	0.02	270	☐	☐	☐	☐	
20-040	W596609	361.00	364.00	0.02	260	☐	☑	☐	☐	Coarse Dup
20-040	W596610	364.00	365.17	0.01	120	☐	☐	☐	☐	
20-040	W596611	365.17	368.00	0.01	310	☐	☐	☐	☐	
20-040	W596612	368.00	371.00	0.02	230	☐	☐	☐	☐	
20-040	W596613	371.00	374.00	0.01	170	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-040	W596614	374.00	377.00	0.04	120	☐	☐	☐	☐	
20-040	W596615	377.00	380.00	0.02	150	☐	☐	☐	☐	
20-040	W596616	380.00	382.00	0.03	350	☐	☐	☐	☐	
20-040	W596617	382.00	385.00	0.02	170	☐	☐	☐	☐	
20-040	W596618	385.00	387.00	0.02	590	☐	☐	☐	☐	
20-040	W596619	387.00	387.67	0.02	180	☐	☐	☐	☐	
20-040	W596621	387.67	390.00	0.04	250	☐	☐	☐	☐	
20-040	W596622	390.00	393.00	0.02	90	☐	☐	☐	☐	
20-040	W596623	393.00	396.00	0.04	100	☐	☐	☐	☐	
20-040	W596624	396.00	399.00	0.08	100	☐	☐	☐	☐	
20-040	W596625	399.00	402.00	0.02	230	☐	☐	☐	☐	
20-040	W596626	402.00	405.00	0.02	250	☐	☐	☐	☐	
20-042	W596627	405.00	408.00	0.03	120	☐	☐	☐	☐	
20-042	W596628	408.00	409.95	0.02	340	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
33.70	34.70	VN	37	78	NUL	3	medium grey suggary textured quartz vein with minor feldspars present. Minor to some py, up to 10%. Veins range between 2-14cm. Some with strained texture, crumbly/crumbled			
								Py	5	IN
37.50	37.51	FR	5	30	NUL	1	py infill			
								Py	1	---
37.70	37.71	FR	5	25	NUL	1	py infill			
								Py	1	---
43.00	43.10	FR	5	30	NUL	1	py infill			
								Py	1	---
44.20	44.21	FR	5	35	NUL	1	py infill			
								Py	1	---
48.00	48.01	FR	5	3	NUL	1	py infill			
								Py	1	---
49.60	52.00	FR	5	40	NUL	4	clay filled fractures in dyke			
	52.10	DY	37	50	NUL	1	mineralized qfp dyke			
								Py	1	---
52.30	52.40	VN	37	10	NUL	1	low angle fine grained sucrosic textured qtz-feld vein, some py infilling internal fractures and dissmeinated py			
								Py	1	DI
52.60	52.61	VT	37	45	NUL	1	qtz py veinlet			
								Py	1	---
63.00	63.50	FR	5	38	NUL	2	py and clay infill fractures			
								Py	1	---
67.60	67.63	VT	37	75	NUL	1	qtz py veinlet, sheared			
								Py	1	---
68.85	68.86	ST		60	NUL	1	py stringer			
								Py	1	---
76.60	76.62	ST		48	NUL	2	py chl stringers			
								Ch	1	---
								Py	1	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
76.80	77.30	VT	37	12	NUL	1	Py cpy chl qtz stringer			
								Ch	1	---
								Py	1	---
								Cp	0.1	---
79.05	79.10	ST		48	NUL	2	py chl stringers			
								Py	1	---
								Ch	1	---
79.50	79.51	ST		30	NUL	1	py chl stringer			
								Py	1	---
								Ch	1	---
79.55	79.56	ST		50	NUL	1	py chl stringer			
								Py	1	---
								Ch	1	---
84.00	84.10	FT	42	30	NUL	1	faulted strained interval with small py veinlet, highly fractured and rubbly			
								Py	2	---
87.60	87.61	ST		58	NUL	1	py chl stringer			
								Py	1	---
								Ch	1	---
89.35	89.36	ST		25	NUL	1	py chl stringer			
								Py	1	---
								Ch	1	---
90.30	90.35	VT	37	32	NUL	2	py qtz chl veinlets			
								Py	1	---
								Ch	1	---
91.40	91.41	ST		18	NUL	1	py stringer			
								Py	1	---
91.80	91.81	FR	5	22	NUL	1	clay alteration halo around small fracture			
95.50	95.51	VT	37	40	NUL	1	qtz py veinlet			
								Py	1	---
96.85	104.15	DY	37	45	NUL	1	dyke, upper contact appears to be closer to 30 deg tca, but difficult to tell due to crumbled contact			
								Py	1	DI
								Cp	0.1	DI
101.50	104.00	VT	37	30	NUL	4	py qtz veinlets			
								Py	1	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
104.05	104.10	FR	5	24	NUL	2	fractures with weak clay alteration halos around them			
105.10	105.11	VT	37	40	NUL	1	qtz py stinger / veinlet			
								Py	1	---
106.00	106.05	ST		20	NUL	1	qtz py chl stinger			
								Py	1	---
								Ch	1	---
112.00	112.50	VN	37	10	NUL	1	grey qtz vein w minor py and rhodochrosite			
								Rh	1	---
								Py	1	---
114.00	114.10	VT	37	15	NUL	1	py qtz veinlet			
								Py	1	---
120.50	120.51	VT	37	36	NUL	1	py cpy veinlet			
								Cp	0.1	---
								Py	1	---
121.50	121.51	VT	37	28	NUL	1	grey qtz and py veinlet			
								Py	1	---
127.50	127.51	VT	37	30	NUL	1	carbonate veinlet separating clay and saussuritic alteration in grd			
128.10	128.11	VT	37	40	NUL	1	qtz py veinlet			
								Py	10	---
129.00	129.01	VT	37	20	NUL	1	qtz py veinlet			
								Py	10	---
130.70	130.73	SH	81	35	NUL	1	sheared rubbly vein / shear.			
								Py	5	---
131.40	131.80	FR	5	35	NUL	4	clay/rubble filled fractures			
134.00	134.05	VT	37	30	NUL	1	py qtz veinlet			
								Py	5	---
134.90	134.92	VT	37	28	NUL	1	qtz py veinlet			
								Py	5	---
135.30	135.35	VT	37	30	NUL	2	qtz py veinlets/fractures			
								Py	5	---
137.10	137.11	VT	37	50	NUL	1	qtz py veinlet			
								Py	5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
145.00	145.03	VT	37	60	NUL	1	qtz py veinlet			
								Py	3	---
145.10	145.13	VT	37	60	NUL	1	qtz py veinlet			
								Py	3	---
147.60	148.00	VT	37	45	NUL	2	qtz py veinlet			
								Py	3	---
147.80	147.82	VT	37	32	NUL	1	qtz py veinlet			
								Py	3	---
148.70	148.72	VT	37	60	NUL	1	qtz py veinlet			
								Py	4	---
149.00	149.02	VT	37	12	NUL	1	qtz py veinlet			
								Py	10	---
149.40	149.95	VN	37	10	NUL	1	qtz carbonate py vein			
								Py	8	---
151.50	151.51	ST		35	NUL	1	stringer with py and cpy			
								Py	3	---
								Cp	2	---
152.20	152.21	VT	37	65	NUL	1	qtz py veinlet			
								Py	5	---
152.50	153.20	VT	37	51	NUL	3	qtz py veinlets			
								Py	1	---
153.70	153.71	VT	37	50	NUL	1	qtz py veinlet with cpy			
								Py	3	---
								Cp	1	---
154.00	155.00	VT	37	5	NUL	1	qtz py veinlet with cpy			
								Py	2	---
								Cp	1	---
156.50	156.55	VT	37	20	NUL	1	qtz py veinlet			
								Py	2	---
157.20	157.21	VT	37	60	NUL	1	qtz py veinlet			
								Py	2	---
158.50	159.00	VT	37	10	NUL	1	low angle carbonate fractures/stringers			
160.00	164.00	VT	37	5	NUL	4	low angle quartz carbonate pyrite stringers			
								Py	2	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
164.00	164.50	VT	37	28	NUL	3	qtz py vinelts			
								Py	3	---
165.10	165.90	VT	37	8	NUL	1	low angle qtz py veinlet			
								Py	3	---
165.30	165.31	VN	37	30	NUL	1	carboante vein			
169.40	169.45	VT	37	35	NUL	1	qtz carboante veinlet			
169.66	170.12	DY	37	60	NUL	1	med grey qfp dyke			
								Py	1	DI
172.80	172.83	VN	37	35	NUL	1	qtz carbonate py vein			
								Py	2	---
174.40	174.55	BX	34	50	NUL	1	intruding breccia, light grey chalcedonic matrix, minor py			
								Py	1	DI
175.80	176.20	VT	37	10	NUL	1	qtz py veinlet			
								Py	2	---
178.00	178.20	VT	37	20	NUL	1	qtz py veinlet			
								Py	2	---
178.70	186.30	DY	37	55	NUL	1	dyke			
								Py	1	DI
181.20	181.21	VT	37	25	NUL	1	qtz py veinlet			
								Py	2	---
182.40	82.41	VT	37	20	NUL	1	qtz py veinlet			
								Py	2	DI
183.40	183.41	VT	37	40	NUL	1	qtz py veinlet			
								Py	2	---
186.00	186.30	SH	81	48	NUL	3	shears in strained grd/dyke boundary			
								Py	1	DI
188.00	189.00	VT	37	25	NUL	4	qtz py veinlets			
								Py	1	---
191.50	191.53	VT	37	40	NUL	1	qtz py veinlet			
								Py	2	---
191.95	191.97	VT	37	30	NUL	1	qtz carboante veinlet			
192.80	192.85	DY	37	60	NUL	1	dyke, small			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
193.10	193.11	VT	37	55	NUL	1	qtz py veinlet			
								Py	2	---
198.82	198.83	VT	37	45	NUL	1	qtz py veinlet w cpy			
								Py	1	---
								Cp	0.5	---
199.25	199.26	VT	37	55	NUL	1	qtz py veinlet			
								Py	5	---
199.80	199.83	VT	37	50	NUL	1	qtz py veinlet			
								Py	5	---
202.00	202.02	VT	37	25	NUL	1	qtz py veinlet			
								Py	10	---
202.10	205.10	DY	37	48	NUL	1	qfp dyke			
								Py	1	DI
203.10	203.15	VN	37	65	NUL	1	silicified veinlet in sheared dyke material			
								Py	2	---
206.80	206.85	VT	37	45	NUL	1	sheared vein, silicified			
								Py	2	---
209.75	209.77	VT	37	60	NUL	1	small py vein with silica alteration halo			
210.45	210.49	VT	37	25	NUL	1	qtz py veinlet			
								Py	5	---
214.30	214.31	FR	5	65	NUL	1	gougy fracture			
220.40	220.41	VT	37	60	NUL	1	buff yellow carbonate veinlet			
220.50	220.51	VT	37	30	NUL	1	carb py veinlet			
220.51	######	VT	37	5	NUL	3	low alngle py veinelts with silica flooding			
								Py	5	---
225.00	225.10	FT	42	70	NUL	1	gougy fault			
231.60	231.66	ST		10	NUL	1	low angle stringer with Py and Bo			
								Bo	1	---
								Py	2	---
231.60	244.90	DY	37	65	NUL	1	fine grained qfp dyke with disseminated py and bo			
								Py	1.5	DI
								Bo	0.5	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
245.20	245.22	VT	37	45	NUL	1	quartz carboante vienlet, minor py			
								Py	1	---
247.05	247.08	VT	37	25	NUL	1	pyrite veinlet			
								Py	20	---
248.20	248.22	SH	81	38	NUL	1	small shear			
250.40	250.41	VT	37	21	NUL	1	small qtz py veinlet			
								Py	3	---
252.10	252.11	VT	37	20	NUL	1	small py veinlet			
								Py	3	---
253.90	253.92	VT	37	30	NUL	1	small py veinlet			
								Py	3	---
258.90	258.95	VT	37	30	NUL	2	small py veinlets			
								Py	5	---
262.35	262.36	VT	37	15	NUL	1	py veinlet			
								Py	3	---
263.00	263.01	VT	37	35	NUL	1	py veinlet			
								Py	5	---
263.10	263.12	VT	37	40	NUL	1	qtz py veinlet			
								Py	5	---
263.55	263.60	VT	37	22	NUL	1	py veinlet			
								Py	5	---
265.30	265.32	VT	37	33	NUL	1	py veinlet			
								Py	3	---
265.90	265.92	ST		20	NUL	1	py stringer			
								Py	3	---
268.75	268.77	ST		35	NUL	1	py stringer			
								Py	3	---
275.70	275.80	VT	37	15	NUL	1	qtz py veinlet			
276.80	276.85	SH	81	70	NUL	1	dark sheared py in shear gouge			
277.65	277.68	VT	37	38	NUL	1	qtz veinlet with some pink carbonate and minor py			
278.00	278.50	VT	37	5	NUL	1	py in veinlet			
278.50	278.51	VT	37	80	NUL	1	py veinelt			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
279.00	280.00	VT	37	5	NUL	1	low angle py veinlet			
280.90	280.91	VT	37	31	NUL	1	qtz carb py vienlet			
281.20	281.22	VT	37	45	NUL	1	qtz py veinlet			
282.90	283.00	ST		75	NUL	3	qtz py stringers			
283.07	283.09	VT	37	50	NUL	1	qtz py veinlet			
284.10	284.11	VT	37	25	NUL	1	qtz py veinlet			
284.15	284.16	VT	37	50	NUL	1	qtz carbonate py veinlet			
284.30	284.31	VT	37	40	NUL	1	qtz py veinlet			
284.40	284.42	VT	37	60	NUL	1	qtz py veinlet			
284.50	284.51	VT	37	50	NUL	1	qtz py veinlet			
290.15	290.20	VT	37	7	NUL	1	py veinlet			
								Py	1	---
292.20	292.21	VT	37	35	NUL	1	qtz py veinlet with small silica flooding halo			
293.50	293.55	VT	37	15	NUL	1	qtz py veinlet with small silica alteration halo			
298.20	298.21	VT	37	15	NUL	1	qtz py veinlet			
299.90	299.92	VT	37	9	NUL	1	qtz py veinlet			
300.80	300.85	SH	81	15	NUL	1	py and gouge infill shear, low angle to core axis			
302.70	302.71	VT	37	48	NUL	1	qtz py veinlet			
304.50	304.55	ST		40	NUL	3	qtz py stringers			
305.50	305.51	VT	37	38	NUL	1	1cm veinlet with py, sphal, gal, hem, and unknown silver mineral			
								Py	5	---
								Un	1	---
								He	2	---
								Gn	2	---
								Sp	2	---
305.80	305.81	VT	37	44	NUL	1	qtz py veinlet			
306.30	306.40	VT	37	30	NUL	3	py veinlet			
311.20	311.21	VT	37	40	NUL	1	qtz py veinlet			
311.60	312.80	ST		22	NUL	2	qtz py stringer			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
312.90	312.91	VT	37	70	NUL	1	qtz py stringer			
313.20	313.21	VT	37	30	NUL	1	qtz carbaonte stringer/veinlet, trace hematite			
314.30	314.31	VT	37	30	NUL	1	qtz py veinlet			
314.50	314.51	ST		40	NUL	1	qtz py stringer			
315.30	315.31	ST		12	NUL	1	qtz py stringer			
316.10	316.15	VT	37	12	NUL	1	qtz py stringer with silica altertion halo			
316.50	316.52	VT	37	45	NUL	1	qtz py stringer			
317.70	317.72	VT	37	37	NUL	1	qyartz carbonate veinelt with minor py			
								Py	5	---
319.15	319.16	ST		40	NUL	1	qtz py stringer			
319.20	319.21	ST		65	NUL	1	qtz py stringer			
319.65	319.66	VT	37	55	NUL	1	rhodochrisite qtz veinlet			
320.70	320.71	VT	37	65	NUL	1	qtz py veinlet			
320.80	320.81	ST		15	NUL	1	qtz py stringer			
321.20	321.22	ST		55	NUL	1	qtz py			
321.30	321.31	VT	37	25	NUL	1	qtz carbonate veinlet			
321.56	321.57	ST		13	NUL	1	qtz py			
322.40	322.42	ST		35	NUL	1	qtz py stringer			
323.80	323.81	ST		48	NUL	1	qtz py stringer			
323.85	323.86	ST		50	NUL	1	qtz py stringer			
324.40	324.41	VT	37	45	NUL	1	qtz stringer with minor py			
324.90	324.91	ST		12	NUL	1	qtz py stringer			
324.95	324.97	VT	37	70	NUL	1	1.5cm py veinlet			
								Py	60	MA
326.25	326.26	ST		68	NUL	1	qtz py stringer			
326.50	326.51	VT	37	30	NUL	1	qtz py stringer			
326.80	326.81	ST		80	NUL	1	qtz py stringer			
327.10	327.11	ST		15	NUL	1	qtz py stringer			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
327.66	327.75	VT	37	18	NUL	3	qtz py veinlets			
327.80	327.81	VT	37	46	NUL	1	py veinelt			
328.70	328.75	VT	37	16	NUL	1	1.2cm py veinlet			
								Py	60	MA
330.80	331.05	BX	34	30	NUL	1	carbonate infilled breccia, minor py			
332.40	332.41	ST		36	NUL	1	qtz py stringer			
332.45	332.50	VT	37	55	NUL	2	rhodochrosite stringers			
								Rh	5	---
332.95	333.05	ST		40	NUL	2	qtz py stringers			
333.03	333.04	VT	37	40	NUL	1	qtz carb py stringer			
334.05	334.10	ST		42	NUL	2	qtz py stringers			
335.45	335.50	VT	37	27	NUL	1	qtz py vienlet			
336.05	336.07	ST		42	NUL	1	qtz py stringer			
336.50	336.55	ST		38	NUL	1	qtz py stringer			
336.80	336.81	ST		38	NUL	1	qtz py stringer with carbonate			
337.35	337.37	VT	37	26	NUL	1	qtz py stringer			
337.50	337.51	ST		45	NUL	1	qtz py stringer			
338.20	338.21	ST		46	NUL	1	qtz py stringer			
338.60	338.61	ST		85	NUL	1	qtz py stringer			
339.30	339.31	ST		50	NUL	1	qtz py stringer			
339.70	339.72	ST		82	NUL	1	qtz py stringer with silica alteration halo			
341.40	341.42	ST		44	NUL	1	qtz py stringer with trace cpy			
								Py	2	---
								Cp	1	---
342.10	342.11	ST		39	NUL	1	qtz py stringer with trace cpy			
								Py	5	---
								Cp	2	---
342.70	342.72	ST		22	NUL	1	qtz py stringer			
342.73	342.75	ST		48	NUL	1	qtz py stringer			
349.40	365.17	DY	37	60	NUL	1	mineralized dyke			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Mo	0.1	DI
								Py	1	DI
350.00	350.50	FR	5	35	NUL	1	fractures with carbonate/ py infill			
353.70	353.75	VT	37	30	NUL	1	veinelt of grey qtz and py			
355.30	359.00	VT	37	10	NUL	3	low angle qtz veinlet with py and mo, >1cm wide			
								Py	0.5	---
								Mo	0.1	---
359.00	361.30	VT	37	60	NUL	2	qtz py veinelts			
359.50	259.75	SH	81	25	NUL	3	shears with py gouge in them			
365.50	366.50	VT	37	10	NUL	1	low angle py stringer			
366.00	369.00	VT	37	30	NUL	6	qtz py veinlets			
376.22	376.35	SH	81	70	NUL	5	weakly mineralized py gouge qtz shears/veins			
378.90	379.03	SH	81	15	NUL	2	sheared py veinlets with carboante, and secondary biotite			
382.20	382.21	VT	37	7	NUL	1	small py moly stringer			
383.20	383.21	VT	37	15	NUL	1	small fracture/veinlet with carbonate and py			
383.60	383.61	VT	37	43	NUL	1	small qtz py veinlet with trace moly			
384.00	385.00	VT	37	15	NUL	2	small py carbonate veinlets			
384.70	384.71	VT	37	80	NUL	1	small py qtz veinlet			
385.60	385.61	VT	37	55	NUL	1	py qtz veinlet			
386.40	386.41	VT	37	33	NUL	1	qtz py stringer with trace moly			
387.00	387.02	VT	37	40	NUL	1	qtz py veinelt with trace py			
387.01	387.03	VT	37	11	NUL	1	qtz py veinlet with trace mo			
387.70	387.71	SH	81	26	NUL	1	shear wityh py gouge, part of larger fault interval			
387.90	387.91	VT	37	45	NUL	1	strained py qtz veinlet			
388.50	389.00	VT	37	65	NUL	2	qtz py veinlets with py and trade cpy and mo, veinlets less tha 1cm			
								Mo	0.1	---
								Py	1	---
								Cp	0.1	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
391.00	394.00	ST		8	NUL	3	low angle py stringers with silica alteration halos, and secondary biotite, generally 1-2cm each			
391.80	391.81	VT	37	60	NUL	1	py veinelt			
393.50	393.51	VT	37	30	NUL	1	py veinlet with trace Py			
394.00	394.15	VT	37	20	NUL	2	qtz veinelts with trace py			
397.90	394.93	VT	37	40	NUL	1	py veinlet			
409.60	409.93	VT	37	70	NUL	1	orange pink carbonate vein			
409.70	407.71	SH	81	45	NUL	1	small shear			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		385066	6889220	1345	316.99

ZONE: Exploration

SECTION:

HOLE: KL -20-482

CLAIM: YA86364

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 0m, Out

Drilling Dates: Sep 23 - Sep 27, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Victoria Mtn. vein sets

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.35	0.35	CAS
0.35	1.8	1.45	OVB
1.8	20.9	19.1	GRD
20.9	23.95	3.05	QFP
23.95	31.02	7.07	BXA
31.02	33.53	2.51	FEL
33.53	38.22	4.69	BXA
38.22	41	2.78	FEL
41	41.45	0.45	QFP
41.45	64.49	23.04	GRD
64.49	66.16	1.67	GRD
66.16	75.1	8.94	GRD
75.1	77.7	2.6	QFP
77.7	80.03	2.33	FLT
80.03	85.12	5.09	BXA
85.12	89.31	4.19	QFP

SAMPLES	
Numbers:	B700750 to B700753, W595781 to W595800, W598351 to W598446
Total:	120
Batch:	036, 044, 046, 050
Certificates:	WH20224821, WH20226282, WH20227042, WH20238418

COMMENTS
Handheld GPS accuracy of 1.9m. 35 feet of HTW rods lost in hole

89.31	92.05	2.74	FEL
92.05	94.5	2.45	FEL
94.5	98.05	3.55	FEL
98.05	98.96	0.91	FEL
98.96	104.8	5.84	FEL
104.8	108.57	3.77	FEL
108.57	118.18	9.61	FEL
118.18	130.45	12.27	QFP
130.45	133.09	2.64	BXA
133.09	145.4	12.31	QFP
145.4	165.83	20.43	GRD
165.83	167.81	1.98	SIL
167.81	184.96	17.15	GRD
184.96	185.09	0.13	VEN
185.09	200.43	15.34	GRD
200.43	202.32	1.89	GRD
202.32	204.83	2.51	GRD
204.83	209.64	4.81	GRD
209.64	217	7.36	GRD
217	218.62	1.62	GRD
218.62	221.18	2.56	GRD
221.18	222.03	0.85	GRD
222.03	233.62	11.59	GRD
233.62	234.65	1.03	BXA
234.65	244.4	9.75	GRD
244.4	244.54	0.14	VEN
244.54	244.88	0.34	GRD
244.88	245.94	1.06	VEN
245.94	261.93	15.99	GRD
261.93	264.35	2.42	GRD
264.35	271.63	7.28	GRD
271.63	277.37	5.74	GRD

277.37	296.71	19.34	GRD
296.71	297.31	0.6	VEN
297.31	308.88	11.57	QFP
308.88	316.99	8.11	GRD

Box Log

KL -20-482

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.35	4.57
2	4.57	7.45
3	7.45	10.67
4	10.67	13.89
5	13.89	16.94
6	16.94	20.05
7	20.05	23.36
8	23.36	27.38
9	27.38	30.95
10	30.95	33.97
11	33.97	36.76
12	36.76	39.62
13	39.62	42.67
14	42.67	46.98
15	46.98	51.11
16	51.11	54.86
17	54.86	59.02
18	59.02	62.55
19	62.55	66.71
20	66.71	70.8
21	70.8	75.07
22	75.07	79
23	79	83.06
24	83.06	87.01
25	87.01	91.52
26	91.52	95.65
27	95.65	99.08
28	99.08	103.2
29	103.2	107.16
30	107.16	111.25
31	111.25	115.1
32	115.1	118.7
33	118.7	122.57
34	122.57	126.36
35	126.36	130.22
36	130.22	134.36
37	134.36	138.68
38	138.68	142.89
39	142.89	146.99
40	146.99	151.16
41	151.16	155.34
42	155.34	159.55
43	159.55	163.59
44	163.59	167.74
45	167.74	171.6
46	171.6	175.67
47	175.67	179.65
48	179.65	184.03
49	184.03	187.8
50	187.8	191.65
51	191.65	195.65
52	195.65	199.64
53	199.64	203
54	203	206.88
55	206.88	209.97
56	209.97	214.08
57	214.08	217.93
58	217.93	221.71
59	221.71	225.92
60	225.92	230.11
61	230.11	234.36
62	234.36	238.27
63	238.27	242.17
64	242.17	245.94
65	245.94	249.38
66	249.38	253.25
67	253.25	257.37
68	257.37	261.57
69	261.57	265.3
70	265.3	269.12
71	269.12	272.8
72	272.8	276.12
73	276.12	280.27
74	280.27	284.26
75	284.26	288.18
76	288.18	292.39
77	292.39	296.55
78	296.55	300.91
79	300.91	305.07
80	305.07	308.88
81	308.88	312.88
82	312.88	316.99

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-482									
	40.34	18	HTW	FEL	1419.6	875.3	2.05	2.6	light purplish brown feldspar porphyry dyke with minor biotite
	87.01	14.75	NTW	QFP	898.4	558.3	2.15	2.6	
	90.13	16	NTW	FEL	973.2	588.2	2.15	2.5	fine-medium grained granitic dyke/ intrusion
	150.28	19.5	NTW	GRD	1270.7	800.6	2.3	2.7	very silicified granodiorite
	178.61	14.25	NTW	GRD	946.5	599.2	2.35	2.7	silicified slightly foliated granodiorite
	190.25	16	NTW	GRD	936.7	577	2.07	2.6	clay altered granodiorite
	230	13.75	NTW	GRD	881.6	559.6	2.27	2.7	chloritized granodiorite
	265.18	14.5	NTW	GRD	799.3	497.4	1.95	2.7	heavily clay altered granodiorite
	283.29	16.5	NTW	GRD	1055.5	663.5	2.26	2.7	coarse grained silicified and foliated granodiorite (?) with small aplite dyke cutting through
	301.98	12.5	NTW	QFP	744.8	465.6	2.11	2.7	clay altered greenish grey fresh quartz feldspar porphyritic dyke

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.35	0.35	CAS	--	No core recovered - casing.							
0.35	1.80	1.45	OVB	FG	Predominantly residual soil but also some competent core - 3 cm wide. Soil is dark brown in color.							
						MD	BN					
						DK	BN					
						DK	GY					
						DK	BK					
1.80	4.57	2.77	GRD	FG	Same as the general lith.							
						DK	GY	AN	LIM	2I	Py	0.01
						DK	BK					
4.57	5.91	1.34	GRD	FG	Zone of pervasive limonite alteration. There is also some rubble zones in this interval. There is also a milky white quartz vein at 5.14 - 5.18 m.							
									LIM	4I		
5.91	7.62	1.71	GRD	FG	Same as general lith							
7.62	8.18	0.56	GRD	FG	Rubbled section with pervasive limonite alteration.							
									LIM	4I		
8.18	12.35	4.17	GRD	FG	Same as general lith.							
12.35	13.34	0.99	GRD	FG	Zone of pervasive limonite alteration. There is also a milky white quartz vein at 12.99 to 13.045 m.							
									LIM	4I		
13.34	20.90	7.56	GRD	FG	Same as the general lith.							
20.90	23.95	3.05	QFP	FG	QFP dyke that is broken up at the upper contact. And we see local patchy pervasive alteration. There is also pervasive hematite atleration giving the core a dark purple / brown coloration. The phenocrysts are clay (argillic) altered and are light green / blue in color to white in the more oxidized zones. We have rare light grey quartz phenocrysts.							
						MD	OR					
						LT	GN		LIM	2I		
						LT	BL					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	PU	PO	CLY	3I		
						DK	OR					
						DK	BR		HEM	2I		
23.95	31.02	7.07	BXA	FG	QFP dyke that is brecciated. Same as above dyke but brecciated. Very strong gouge with clasts floating in the gouge. Dyke is light grey to buff colored with local pervasive limonite alteration. There is the same clay (argillic) alteration with white to light green phenocrysts. Local patchy hematite staining.							
						MD	OR					
						LT	GY		LIM	2I		
						LT	BF		HEM	1I		
						DK	OR					
31.02	33.53	2.51	GRD	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration between the hematite? Or just very light pink hematite alteration? Broken up lower contact with a different dyke - similar to the one above.							
						MD	PU		POT	2I		
						LT	PK	PO	HEM	2I	Bi	0.1
						LT	GY					
						DK	PU		CLY	3I		
33.53	38.22	4.69	BXA	FG	A QFP dyke that is light to medium grey with brown hues with local pervasive hematite staining that makes the core dark purple / brown. The upper contact is rubbled and we have weak to moderate brecciation. The phenocrysts are clay altered (argillic) that are white to light green/ blue in color. There is also rare glassy grey quartz phenocrysts.							
						MD	GY		HEM	2I		
						LT	GY	PO	CLY	3I		
						LT	BL					
						LT	WH					
						DK	PU					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.22	41.00	2.78	GRD	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. Granodioritic in composition? There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration inbetween zones of stronger hematite or just very light pink hematite alteration? Lower contact is hard to deciper due to the pervasive limonite alteration and the brecciation.							
						MD	PK		POT	3I		
						LT	GY	PO	HEM	3I	Bi	0.1
						LT	BL					
						DK	PU		CLY	3I		
41.00	41.45	0.45	QFP	FG	Very altered QFP dyke that is strongly clay and limonite altered pervasively. There are glassy grey quartz phenocrysts that are disseminated. Gouge is occurring at the upper and lower contacts of this dyke 1 - 2 cm wide.							
						MD	OR		LIM	4I		
						LT	WH	PO	CLY	4I		
						DK	OR					
41.45	42.38	0.93	GRD	MG	Zone with patchy pervasive limonite coming in along fracture surfaces as well as strong white clay alteration.							
42.38	45.92	3.54	GRD	FG	Zone that has moderate chloritic alteration with moderate potassic alteration. We also see local zones of argillic (clay) alteration that is light blue in color. We see this alteration around quartz veining as well as some local fractures. Also along fractures we see limonite staining.							
45.92	47.98	2.06	GRD	MG	Zone of rubble and minor gouge with some minor competent core as well. Rubble - 80%, Gouge - 5%, Competent core - 5%. This zone has strong chloritic alteration with moderate potassic. Also there is local zones of pervasive limonite alteration.							
47.98	48.29	0.31	GRD	MG	Patch of strong chloritic alteration with moderate potassic alteration as well as patchy weak argillic (clay) alteration. There is disseminated black biotite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
48.29	51.84	3.55	GRD	MG	Zone with patchy pervasive limonite alteration. As well we have strong clay (argillic) alteration in non-limonitic zones with weak to moderate potassic alteration. This interval has black biotite dissemianted. A small zone of rubble in this interval at 51.11 to 51.55 m.							
51.84	64.49	12.65	GRD	MG	Mixed zone of alteration the zones of moderate chloritic alteration with potassic alteration. As well we have white clay (argillic) alteration with potassic alteration. Along most fracture surfaces we see limonite alteration. There is some weak rubbled zone in this interval as well.							
64.49	66.16	1.67	GRD	MG	Small fault zone with rubble and some minor gouge. Rubble - 95% and Gouge - 5%. Along fracture surfaces we see chlorite and calcite.							
						MD	PK		POT	3I		
						MD	GN		CHL	3I		
						LT	WH					
						LT	BL					
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
66.16	70.10	3.94	GRD	MG	Zone that is light grey to light blue in color. There is strong white clay (argillic) alteration with light grey/ blue sericite alteration? That is pervasive. The core is fairly soft. This unit has weak gouge along fracture surfaces. Sharp lower contact. There is limonite coming in along fracture surfaces as well as MnOx locally. There are 3 small quartz / sulphide veins in this interval. 66.34 - 66.36 m: there is a shallowly dipping quartz / sulphide vein that is running sub parallel tca till 66.57 m where it disappears into a brecciated zone. Quartz is milky white with a local pink hue and blebby pyrite and trace galena. There is strong patchy carbonate alteration in this quartz vein as well. 62.10 - 62.32 m - there is a quartz/ carbonate vein running sub parallel tca (possibly an extension of the previous vein but can't tell). The vein is 1 cm wide. Pyrite is occurring along the vein selvage. There is another quartz/ sulphide vein at 69.75 - 69.93 m - vein is 1.5 cm wide and is shallowly dipping. The quartz is milky white with white calcite alteration. Blebby pyrite and sphalerite are occurring along the vein selvage.							
											Py	0.1
											Sp	0.1
70.10	75.10	5.00	GRD	MG	Zone of strong clay (argillic) alteration that is white. We have moderate to strong potassic alteration with the clay. Locally there is dark green chloritic alteration. Black biotite is disseminated in this interval. We have limonite alteration coming in along fracture surfaces.							
75.10	77.70	2.60	QFP	FG	Light grey to medium grey with dark purple locally QFP dyke. The phenocrysts have clay (argillic) alteration that is white in color. There is also glassy grey quartz phenocrysts. There is a small 0.5 cm wide quartz sulphide vein at 76.63 - 76.635 m. There is white quartz with blebby galena as well as honey brown sphalerite. The sphalerite is inergrown with with galena. There is also local breccia zone at 77.31 - 77.43 m.							
						LT	GY	PO	CLY	3I	Gn	0.1
						LT	WH					
						DK	PU		HEM	1I	Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
77.70	80.03	2.33	FLT	FG	Same dyke as above but faulted. Small fault zone before we enter a breccia zone below. Dark grey with a light green tinge to the core. Phenocrysts are clay (argillic) altered. There is also a small breccia zone at 78.23 - 78.37 m. Rubble - 60%, Competent core - 30%, Breccia - 10%.							
						MD	GY	PO	CLY	3I		
						LT	GN					
80.03	85.12	5.09	BXA	FG	Same dyke as above but brecciated. Light grey to medium grey in color. Phenocrysts are clay (argillic) altered. Strong local gouge sections up to 44 cm wide. Possible section of granodiorite? But had to tell due to the pervasive limonite and chlorite alteration - 83.86 - 84.85 m. This interval is right before the large gouge zone.							
						MD	GY		CHL	2I		
						LT	GY	PO	CLY	3I		
						LT	WH		LIM	2I		
						DK	OR					
						DK	GN					
85.12	89.31	4.19	QFP	FG	Dark grey with a green tinge QFP dyke. Same as above just not brecciated. Locally we see limonite coming in along fracture surfaces. There is a light grey and white quartz vein running subparallel tca near the beginning of interval.							
						MD	GY	PO	CLY	3I		
						LT	GN		LIM	3I		
89.31	92.05	2.74	GRD	MG	Same dyke as 31.02 - 33.53 and 38.22 - 41.00 m . Porphyritic feldspar dyke with possible granodioritic composition? The alteration looks identical to a granodiorite. There is strong white clay (argillic) alteration with moderate to strong potassic alteration. There is disseminated black biotite as well in this unit. At the upper contact we see dark purple hematite alteration - patchy and local in the rest of the interval. We also see strong patchy limonite alteration coming in along fracture surfaces. Sharp lower contact.							
						LT	PK	PO	POT	3I	Bi	0.1
						LT	WH		CLY	4I		
						DK	PU		LIM	2I		
						DK	OR		HEM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
92.05	94.50	2.45	GRD	MG	Altered granodiorite. Dark green chloritic alteration with weak potassic alteration turning into weak chloritic alteration with strong potassic alteration. There is black disseminated biotite. Along some fractures and quartz veining there is white clay (argillic) alteration. Locally there is silica flooding around a quratz vein turning the core light grey in color. Sharp lower contact. Local limonite alteration along fracture surfaces at the start of the interval.							
						MD	GY		CHL	3I		
						MD	PK		CLY	2I		
						DK	GN	PA	POT	4I	Bi	0.1
									LIM	1I		
94.50	96.01	1.51	GRD	FG	The first half of this interval has pervasive strong limonite alteration along fracture surfaces and the last half is all rubbled and broken up.							
96.01	96.76	0.75	GRD	FG	Zone with a shear going down core axis that is infilled with white quartz and disseminated pyrite.							
											Py	0.5
96.76	98.05	1.29	GRD	FG	Same as general lith.							
98.05	98.96	0.91	GRD	FG	Porphyritic dyke with feldspar that have been altered to white quartz. Sharp lower contact with granodiorite. There is medium green chloritic halo around quartz veining. There is a 5 cm wide gouge zone with pyrite disseminated in the gouge.							
						MD	GY					
						LT	GY	PO				
						LT	WH					
98.96	104.80	5.84	GRD	MG	Variably altered granodiorite. There are areas of strong clay (argillic) alteration that is ranging from light blue to white with moderate potassic alteration. The other alteration we see is zones of strong chloritic alteration with moderate potassic alteration. At the lower contact there is a zone of pervasive limonite alteration. There is disseminated black biotite in both alteration zones. Sharp lower contact with dyke.							
						MD	GN	PH	CLY	4I	Bi	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	PK		POT	3I		
						LT	WH		CHL	3I		
						LT	BL					
						LT	GN					
104.80	106.42	1.62	FEL	FG	Same as general lithology.							
106.42	106.47	0.05	VEN	FG	Quartz / sulphide vein that has light grey quartz with blebby pyrite and galena.							
											Py	1
											Gn	0.3
106.47	106.95	0.48	FEL	FG	Same as general lithology							
106.95	107.56	0.61	FEL	FG	Zone of strong clay alteration that is white to light green in color. There is also moderate potassic alteration. The last half is starting to be strongly chloritic alteration. There are large pink phenocrysts in this interval made up of quartz. There is disseminated black biotite. Sharp lower contact.							
107.56	108.57	1.01	FEL	FG	Same as general lithology							
108.57	118.18	9.61	FEL	MG	Possible continuation of the above unit with different alterations. Possibly a granitic porphyritic dyke or a intrusion? Predominanlty we see strong chloritic alteration with moderate potassic alteration with large pink quartz phenocrysts. After 117.60 m we see strong clay alteration that is white with moderate potassic alteration and the same large pink phenocrysts. There is patchy hematite alteration in the lower alteration interval as well as patchy pervasive limonite alteration. Sharp lower contact with dyke that is brecciated. Around quartz veins there is light blue clay alteration. There is limonite coming in along fracture surfaces. Black biotite is disseminated in this interval.							
						MD	GN		POT	3I		
						MD	GY					
						LT	PK	PO	CHL	3I	Bi	0.1
						LT	WH		CLY	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
118.18	130.45	12.27	QFP	FG	QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. At the upper contact we see a xenolith of the above dyke with a irregular contact with a re-lithified breccia with different sized clasts floating in a fine granined matrix at 118.49 - 118.71 m. Limonite is coming in along fracture surfaces. Locally pervasive near upper contact.							
						MD	GY	PO	LIM	2I		
						MD	GN					
						MD	OR					
						LT	WH					
						LT	GN					
130.45	133.09	2.64	BXA	FG	Continuation of above qfp dyke but brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts.							
						MD	GY	PO				
						LT	GN					
133.09	145.40	12.31	QFP	FG	Continuation of the above dyke but not brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. There is patchy limonite coming in along fracture surfaces. Sharp lower contact with granodiorite. There is a small amount of gouge - 12 cm.							
						MD	GY	PO	LIM	1I		
						LT	GN					
145.40	145.50	0.10	FLT	FG	Zone of gouge between QFP dyke and granodiorite.							
145.50	148.11	2.61	GRD	CG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There is also a quartz/ sulphide vein coming out from a fracture with gouge along it at 146.70 m. The vein is 1 cm wide that is white and light grey in color with blebby pyrite and sphalerite.							
148.11	149.70	1.59	GRD	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
149.70	150.50	0.80	GRD	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There are thin quartz veinlets in this interval with mineralization - pyrite. At 150.10 - 150.11 m there is a milky white quartz vein with blebby pyrite. There is also a stringer of pyrite at 150.15 - 150.155 m.							
150.50	150.88	0.38	GRD	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.							
150.88	153.66	2.78	GRD	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There is quartz veinlets with mineralization in this interval as well there are apalite dykes? Fine grained, silicous with sharp contacts. There are 4 in this interval. At 152.77 - 152.90 m there is a shallowly dipping quartz vein that is white with patchy pervasive limonite alteration as well as blebby pyrite.							
											Py	0.1
153.66	153.73	0.07	VEN	FG	Quartz sulphide vein. Light to dark grey to white fractured up quartz with bleby pyrite and sphalerite.							
											Py	2.5
											Sp	1
153.73	154.66	0.93	GRD	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature.							
154.66	156.68	2.02	GRD	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration. There is a local section of strong chloritic alteration at the top of the interval.							
156.68	157.50	0.82	GRD	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. Local patchy hematite alteration occurring in blebs. Also a quartz / sulphide vein at 156.91 - 156.97 m. Quartz is dark grey to white with blebby pyrite and sphalerite. There is also a 0.5 cm stringer of pyrite and spalerite at 157.37 m. Rubbled lower contact.							
											Py	0.1
											Sp	0.1
157.50	161.22	3.72	GRD	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
161.22	162.33	1.11	GRD	MG	Zone of strong white clay alteration. Moderate potassic alteration in this interval as well it is more medium grained to coarse grained.							
162.33	163.22	0.89	GRD	CG	Zone of less alteration and more fresh. Weak blebby chlorite alteration.							
163.22	164.74	1.52	GRD	CG	Zone of strong white clay alteration with weak potassic alteration. As we get closer to the end of the interval the unit becomes silicified.							
164.74	165.83	1.09	GRD	CG	Zone that has pervasive alteration chloritic? That is obliterating most of the original texture of the granodiorite. It getting weaker as we get closer to the end of the interval and we start to see individual grains again.							
165.83	167.81	1.98	SIL	FG	Zone that is super silicious and fine grained. Light grey to green in color with local spots where we can see the granodiorite with sharp contacts. There are white phenocrysts that are clay alterered. There is also patchy hematite staining. There is pyrite infilling in fractures locally.							
						LT	GY	AN	SIL	5I	Py	0.1
						LT	GN					
						LT	PK					
167.81	171.60	3.79	GRD	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. There is one apalite dyke? In this section at 168.95 - 169.10 m.							
171.60	172.72	1.12	GRD	CG	Zone of strong white clay (kaolinite?) alteration and grading into a bleached silicious zone after 172.21 m.							
172.72	174.09	1.37	GRD	CG	Zone of silicious alteration - light grey in color. We also see bands of potassic light pink to salmon colored alteration where is it usually more disseminated and spread out. There is also a apalite dyke? At 173.73 - 173.86 m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
174.09	175.88	1.79	GRD	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. There are also two dykes?/ veins? That have quartz and k feldspar phenocrysts with sharp upper and lower contacts. They occur at 175.10 - 175.15 m and 175.80 - 175.85 m.							
175.88	176.59	0.71	GRD	CG	Zone of bleaching and silicification due to quartz stringers coming. There are still some observable grains that are clay altered. Sharp upper and lower contacts.							
176.59	179.31	2.72	GRD	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. Sharp lower contact with white clay alteration. As well there are two dykes?/ veins? That have quartz and k feldspar phenocrysts with sharp upper and lower contacts. They occur at 177.43 - 177.54 and 178.31 - 178.35 m. Lower contact is rubbled and broken for 3 cm.							
179.31	182.83	3.52	GRD	CG	Zone of strong white clay (kaolinite?) alteration. At the upper contact we see moderate potassic alteration (light pink in color). There are also local zones of black biotite dissemianted in this interval. Thre is also patchy dark purple hematite alteration. Sharp lower contact. There is also a small brecciated zone at 180.35 to 180.64 m.							
182.83	184.96	2.13	GRD	CG	Mixed zone of alteration. At the upper contact we see strong dark chloritic alteration making the core look like a dark diorite with black and white. Then it grades into a more fresh granodiorite with weak potassic alteration overprinted with weak white clay alteration - blebby. Then at the lower contact with the sulphide ven it is very bleached and silicified.							
184.96	185.09	0.13	VEN	CG	Quartz sulpide vein. Milky white quartz with massive pyrite. Pyrite is fresh and very coarse grained. There is a silicious alteration halo around this vein as well we have some blebby pyrite in stringers around the vein.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH				Py	10
185.09	187.75	2.66	GRD	CG	A mixed zone of alteration at the upper contact we see some silicification due to the quartz/ sulpide vein. In this interval there is dark green chloritic alteration with weak white clay alteration coming in blebby. There is also weak potassic alteration (light pink) in less chloritic rich areas. There is also patchy hematite along fracture surfaces. Fracturing is occurring throughout this interval infilled with clay as well as calcite and quartz.							
187.75	189.19	1.44	FLT	CG	Small fault zone/ possible shear. Strong dark green chloritic alteration as well as light green/ yellow clay alteration. We see fresh coarse grained pyrite in gouge and along fracture surfaces. Rubble - 65%, competent core - 30%, and gogue - 5%.							
189.19	190.63	1.44	GRD	CG	A zone of strong white clay (kaolinite?) alteration. Thre is also at the upper contact a quartz vein zone to 189.34 m. After this vein zone there is an altered zone with patchy hematite and light green clay alteration.							
190.63	192.56	1.93	GRD	CG	A silicified version of the above unit. Strong white clay (kaolinite?) alteration with abundant quartz veining and silicification due to veining. Quartz veins are light to dark grey in color predominantly and are locally cherty in nature. We also see blebby pyrite in local concentrations throughout this interval. At the lower contact we see strong silicification with patchy hematite alteration.							
											Py	1
192.56	193.42	0.86	GRD	CG	Zone of dark green chloritic alteration with patchy epidote alteration as well. At the upper contact we can see less altered granodiorite and then grades into the strong chloritic alteration. Sharp lower contact with more fresh granodiorite.							
193.42	195.95	2.53	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration (light pink). Weakly foliated. Sharp lower contact with strong white clay alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
195.95	199.04	3.09	GRD	CG	Zone of strong white (kaolinite?) clay alteration. Locally we see light blue / green clay. There is moderate to strong potassic alteration in this interval. There is a local vein with a silicification halo around it - 196.75 - 197.60 m. There is a 5 cm gouge section at the lower contact.							
199.04	200.43	1.39	GRD	CG	Zone of fresh less altered granodiorite but also local sections of fine grained and more massive in nautre. Strong chloritic blebby alteration. With local blebby epidote as well as hematite staining.							
200.43	202.32	1.89	GRD	CG	Small fault zone that is predominantly rubble - 85% and competent core - 15%. There is strong chloritic alteration coming in along fracture surfaces. There also is a quartz/ k-feldspar (phenocrystic) dyke?/ Vein? In this interval at 200.83 - 200.88 m.							
						MD	GY					
						LT	GY		CHL	4I		
						LT	PK					
						DK	GN	PH	POT	2I		
202.32	202.37	0.05	GRD	CG	Strong white clay alteration with rubble zone in the middle of the core. There is also the quartz/ feldspar phenocrystic dyke? / vein? In this interval as well.							
202.37	204.83	2.46	GRD	CG	Dark green pervasive chloritic alteration with light pink phenocrysts. There is also the small quartz/ sulphide veinlet in this interval.							
											Py	0.1
											Sp	0.1
204.83	209.64	4.81	GRD	CG	Fault zone in altered granodiorite with strong pervasive chloritic alteration for most of the fault and becoming less altered as we get closer to the end of the interval. Rubble - 70%, Competent core - 25% and gouge - 5%. In this interval there are the fine grained apalite dykes? As well as the quartz/ k feldspar phenocrystic dykes? Or Veins?.							
						LT	PK					
						LT	WH					
						DK	GY	PH	CHL	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN		POT	2I		
209.64	215.88	6.24	GRD	CG	Same as general lithology. There is a large quartz/ k feldspar phenocrystic dyke? / Vein? At 211.38 - 211.50 m. At 211.98 - 212.44 m there is a zone of 4 of these dykes/ veins? Range in size from 1 cm to 1.5 cm wide. There is a large blebby contcentration of pyrite at 213.99 - 214.03 m - appears to have come in along a fracture with a light green yellow alteration. There is an apalite dyke at 215.32 - 215.43 m. At the lower contact there is another QF phenocrystic dyke/ vein??							
215.88	217.00	1.12	GRD	CG	Zone of strong light blue clay alteration. There are two small quartz / sulphide veinlets in this interval with pyrite and sphalerite.							
											Py	0.1
											Sp	0.1
217.00	218.62	1.62	GRD	CG	Small fault zone in altered granodiorite. Rubble - 85% and Competent core - 15%. The first half of the interval has strong chloritic alteration while the lower half has strong white clay (kaolinite?) alteration. Sharp lower contact.							
						LT	WH		CLY	3I		
						LT	BL					
						DK	GN	PH	CHL	3I		
218.62	221.18	2.56	GRD	CG	Less altered and more fresh zone of coarse grained granodiorite. There is weak potassic (light pink) alteration as well as blebby dark green chloritic alteration. As we approach the lower contact we start to see strong pervasive chloritic alteration as well as patchy epidote. There is also a QF phenocrystic dyke/ vein occuring in this interval at 219.96 - 220.01 m. Lower contact is faulted.							
						LT	GY	PH	CHL	3I		
						LT	WH					
						LT	PK					
						DK	GN					
221.18	222.03	0.85	GRD	CG	Small fault zone made up of fine rubble and chips.							
						LT	WH					
						DK	GN		CHL	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
222.03	224.74	2.71	GRD	CG	Mixed zone of more chloritic alteration with some weak potassic alteration (light salmon colored) as well we see more fresh less altered granodiorite. There is a small shear at 223.30 to 223.68 m. As well there is blebby pyrite locally concentrated with a larger concentration on potassic (223.90 - 223.98 m).							
											Py	0.5
224.74	225.97	1.23	GRD	CG	Zone of strong white clay alteration as well as light blue clay at the upper contact with the moderate potassic alteration and as the alteration become white we lose the potassic alteration.							
225.97	226.43	0.46	GRD	CG	Zone of fresh less altered granodiorite with blebby chloritic alteration as well as some weak potassic alteration. Broken up upper contact with weak gouge. Sharp lower contact.							
226.43	227.08	0.65	GRD	CG	Zone of strong white clay alteration as well as light blue with the weak potassic (light pink) alteration. This interval has two quartz/ sulphide veins at 226.70m - 226.74 and 228.42 - 228.45 m. The first one has light grey to white quartz with blebby sphalerite and pyrite. The second one is white to light / dark grey quartz and blebby pyrite and galena. There is also local blebs of pyrite.							
											Py	0.1
											Sp	0.1
											Gn	0.1
227.08	231.65	4.57	GRD	CG	Zone of dark chloritic alteration with light grey quartz blebs visible. There is local blebs of epidote in this interval. As well as some local potassic (light salmon colored) alteration. There is also some blebby pyrite locally.							
231.65	233.62	1.97	GRD	CG	Zone of strong white clay alteration as well as light blue clay alteration. Theres also moderate to weak potassic alteration. Also there is dark green chloritic alteration coming in along fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
233.62	234.65	1.03	BXA	CG	Alterered granodiorite that is breciated. Strong white clay alteration with moderate potassic alteration (light to medium pink in color). Dark chloritic alteration coming in along fracture surfaces. Gouge is coming in along fracture surfaces.							
						MD	PK		CHL	2I		
						LT	WH	PH	CLY	4I		
						DK	GN		POT	3I		
234.65	236.34	1.69	GRD	CG	Zone of strong white to light blue clay alteration with patchy potassic alteration as well as some local hematite. There is also some patchy blebby pyrite.							
											Py	0.1
236.34	237.44	1.10	GRD	CG	More fresh granodiorite with chloritic alteration coming in along fracture surfaces. There is patchy hematite as well as patchy epidote in this interval.							
237.44	238.12	0.68	GRD	CG	Zone of strong white / light blue clay alteration with moderate potassic alteration. There is a quartz vein in this interval 4 cm wide with minor sulphides.							
238.12	241.33	3.21	GRD	CG	More fresh granodiorite with chloritic alteration coming in along fracture surfaces.							
241.33	241.47	0.14	VEN	CG	White quartz with light green/ yellow clay alteration as well as a light orange/ salmon colored alteration. Trace blebby pyrite in this interval.							
241.47	243.84	2.37	GRD	CG	Zone of white/ light blue clay alteration with weak potassic alteration.							
243.84	244.40	0.56	GRD	CG	Zone of pervasive chloritic alteration that is bleached white due to the quartz vein at the lower contacts.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
244.40	244.54	0.14	VEN	CG	Light to dark grey to white quartz vein with mineralization. Vein appears to be brecciated and broken up. There is pathy clay alteration in the quartz that is light green/ yellow. There is also patchy dark green chloritic alteration on the fracture surfaces. There is blebby disseminated pyrite as well as some arsenopyrite in this vein as well.							
						MD	GY				As	0.5
						LT	GY				Py	1
						LT	WH					
						DK	GY					
244.54	244.88	0.34	GRD	CG	Small slice of altered granodiorite that is strongly white clay altered as well as light blue clay locally. There is also patchy weak potassic alteration (light pink). Sharp lower contact with silicious (vein? Zone).							
						LT	WH	PH	CLY	4I		
						LT	PK					
244.88	245.94	1.06	VEN	FG	Possible very silicified granodiorite? Or a silicious dyke? Light green yellow in color with local patches of clay alteration that is white. There is also local potassic (light salmon colored) to patches as well. Patchy hematite alteration predominantly occurring in the upper half of the interval.							
						LT	GN		CLY	3I		
						LT	YW		HEM	1I		
						LT	WH					
						LT	PK					
245.94	246.28	0.34	GRD	CG	Zone of strong white clay alteration with local light blue clay alteration as well as weak potassic alteration.							
246.28	247.49	1.21	GRD	CG	Mixed zone of more fresh granodiorite with less alteration grading into a zone that is strongly chloritic altered.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
247.49	248.59	1.10	GRD	CG	Mixed zone of alteration. The interval appears chloriticly altered at the start and end of the interval with pervasive silicification. Unit is fractured with chlorite coming in along it as well there is disseminated patchy pyrite.							
											Py	0.1
248.59	252.51	3.92	GRD	CG	Zone of strong white clay alteration with local light blue clay alteration as well as weak potassic alteration. There is patchy hematite atleration. There is fracturing infilled with chlorite. Local quartz veining with mineralization as well as a local zone with quartz / k feldspar phenocrystic dyke/ vein? (249.08 - 249.28 m). There is also a quartz/ sulphide vein at 251.24 - 251.28 m that has dark grey quartz with blebby pyrite, sphalerite and galena.							
											Gn	0.1
											Sp	0.1
											Py	0.1
252.51	253.82	1.31	GRD	CG	Zone of dark green pervasive chloritic alteration. There is local patchy potassic alteration.							
253.82	254.06	0.24	GRD	CG	Zone of strong white clay alteration with a small quartz / sulphide stringer with pyrite and sphalerite near the end of the interval.							
254.06	254.42	0.36	GRD	CG	Zone of less altered granodiorite with only blebby chloritic alteration and weak potassic alteration.							
254.42	254.88	0.46	GRD	CG	Zone of strong white clay alteration with patchy chloritic alteration. There is also a quartz / sulphide vein at 254.76 - 254.80 m. Light grey and white quartz with blebby pyrite.							
											Py	0.1
254.88	259.08	4.20	GRD	CG	Mixed zone of less altered granodiorite with zones of strongly chloritic altered granodiorite. Sharp lower contact. Patchy epidote in this interval as well as patchy potassic alteration. In this interval there is also the phenocrystic quartz/ k feldspar dykes? / Veins?							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
259.08	259.67	0.59	GRD	CG	Strong white and light blue clay alteration with moderate to strong potassic alteration. Sharp lower contact.							
259.67	261.93	2.26	GRD	CG	Mixed zone of less altered and strongly chloritic alteration. Chlorite appears to be coming in along fracture surfaces. There is moderate potassic alteration in the less altered zones of the granodiorite. There is also patchy bleby epidote alteration occurring in the strongly chloritic alteration.							
261.93	264.35	2.42	GRD	CG	Fault zone in altered granodiorite. The granodiorite is pervasively chloritic altered at the first half of the interval and then grading into a less altered granodiorte. There is weak to moderate potassic alteration occurring in the lesser altered granodiorite. This fault is predominantly rubble - 70% and competent core - 30%.							
						LT	GY		POT	2I		
						LT	PK					
						DK	GN	PH	CHL	4I		
264.35	265.35	1.00	GRD	CG	Zone of strong white/ light blue clay atleration with local silicious zones. There is weak patchy potassic alteration. Local chlorite coming in along fractures.							
265.35	266.70	1.35	GRD	FG	Zone of silica flooding? Fine grained and strong. Light grey to light pink in color.							
266.70	267.55	0.85	GRD	CG	zone of strong white/ light blue clay atleration. There is weak patchy potassic alteration. Local chlorite coming in along fractures. Locally the chlorite is bleeding into the clay alteration turning in locally green as well there is patchy hematite alteration.							
267.55	271.63	4.08	GRD	CG	Mixed zone of less altered granodiorite with more pervasively chloriticly altered. In the zones with less chloritic alteration we see patchy potassic alteration as well as local bands of potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
271.63	277.37	5.74	GRD	CG	Fault zone in variably altered granodiorite. There are large zones of less altered granodiorite with blebby chloritic alteration as well as potassic. There are pervasive chloritic alteration zones as well. In the rubble the fracture surfaces are coated in chlorite, calcite or hematite locally. This fault is predominatly rubble - 80% and 20% competent core.							
						LT	GY	PH	CHL	4I		
						LT	PK		HEM	1I		
						LT	WH					
						DK	GN		POT	3I		
						DK	PU					
						DK	RD					
277.37	279.96	2.59	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration and weak potassic alteration. Chlorite is coming in along fracture surfaces. There is also a local area of strong chloritic alteration.							
279.96	280.53	0.57	GRD	CG	Zone of strong white clay alteration with moderate potassic alteration (light pink in color). Sharp lower contact.							
280.53	285.37	4.84	GRD	CG	Mixed zone of alterations with fresh less altered granodiorite mixed with zones of strong pervasive chloritic alteration. The less altered granodiorite has blebby chloritic alteration as well as weak potassic (light pink) alteration. Theres also chlorite coming in along fracture surfaces in this interval. In the more chloritic zones we also see sericite alteration. There are 3 apalite? Dykes in this interval that are fine grained, silicious and are dark brick red to light pink/ salmon colored.							
285.37	285.80	0.43	FLT	CG	Small fault zone with rubble.							
285.80	286.78	0.98	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration (light pink). Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
286.78	287.58	0.80	GRD	CG	Zone of pervasive chloritic alteration with some weak sericite alteration. Theres also local patches of less altered granodiorite that are small and circular. Sharp lower contact with apalite? Dyke.							
											Py	0.3
287.58	288.18	0.60	GRD	CG	Large apalite dyke? At the beginning of the interval. Then we have storng white clay alteration with blebby pyrite. The apalite dyke goes from 287.58 to 287.81 m.							
288.18	293.76	5.58	GRD	CG	Zone of less altered granodiorite and locally appears weakly foliated. There is weak chloritic alteration as well as weak potassic alteration (light pink). There is patchy blebby epidote in this interval. This interval also has 3 quartz/ k feldspar dykes?/ veins? - 291.13 - 291.15 m and 291.57 - 291.63 m - there are two close together.							
293.76	294.72	0.96	GRD	CG	Zone of strong white clay alteration with light blue as well. Local quartz veining with some pyrite. There is also a apalite dyke at the end of the interval that is 5 cm wide and shallowly dipping.							
											Py	0.1
294.72	296.17	1.45	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration that appears foliated. There are 4 phenocrystic quartz/ k-feldspar dykes?/ veinlets? - 295.50 - 295.51m, 295.53 - 294.54, 295.75 - 295.755 m, and 295.90 - 295.97 m - two in this interval.							
296.17	296.71	0.54	GRD	CG	Zone of strong white clay alteration that has been silicified due to the vein zone occurring at the lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
296.71	297.31	0.60	VEN	FG	Quartz vein zone with sulpides occurring in the quartz veining. The main quartz vein is 296.82 - 296.96 m.Quartz is light grey to dark grey with brecciated white quartz grains occurring in the center of the vein. Pyrite is occurring in fine grained bands before the vein as well as some arsenopyrite that is also fine grained and occurring in bands. There are open space cavities occurring in this vein as well that range in size from 2 - 8 mm wide and 4 mm to 2 cm wide. Inside the cavities are some weak light grey re-crystallizaiton. In the main part of the vein there is blebby pyrite, sphaleriate and some galena. There are quartz stringers and veinlets occurring in this interval as well mostly with pyrite but also some sphalerite. At the lower contact we seom brecciation with a mix of dyke as well as quartz veining. There is also strong white clay alteration occurring as the wall rock.							
						LT	GY					
						LT	WH					
						DK	GY					
297.31	308.88	11.57	QFP	FG	QFP dyke that is light grey / green to darker grey / green as well as local zones of dark purple brown. Phenocrysts are clay altered light green to white as well there are glassy grey quartz phenocrysts. There is local quartz veining as well as silicified granodiorite with the quartz veining that is white in color with dark grey quartz infilling fractures. A fine grained xenolith is occurring in this interval as well. Zones of silicious granodiorite / quartz veining occurring at 305.90 - 306 m, 307.32 - 307.50 m, and 307.63 - 308.71 m. At 207.57 - 207.60 m there is a quartz vein with fine grained pyrite clustered together.							
						MD	GY					
						LT	GN	PO	CLY	3I	Py	0.1
						LT	GY		HEM	1I		
						DK	PU					
						DK	BN					
308.88	311.10	2.22	FLT	FG	Faulted and silicified zone. Rubble - 20%, Gouge - 30%, Competent core - 50%. Zone is light grey to white in color. There is also some local light grey glassy quartz veining.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
311.10	316.99	5.89	GRD	CG	Zone of less altered granodiorite with weak to moderate potassic alteraiton (light pink) in color and appears weakly foliated. There is a large quartz / k feldspar phenocrystic dyke?/ vein at 313.49 to 313.63 m. There is a small one at 315 to 315.39 m that runs sub-parallel tca and is locally displaced by fracturing. There is local hematite staining along fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.35	0.35	CAS	---	--	No core recovered - casing.
0.35	1.80	1.45	OVB	OVB	FG	Predominantly residual soil but also some competent core - 3 cm wide. Soil is dark brown in color.
1.80	4.57	2.77	GRD	GRD	FG	Same as the general lith.
4.57	5.91	1.34	GRD	GRD	FG	Zone of pervasive limonite alteration. There is also some rubble zones in this interval. There is also a milky white quartz vein at 5.14 - 5.18 m.
5.91	7.62	1.71	GRD	GRD	FG	Same as general lith
7.62	8.18	0.56	GRD	GRD	FG	Rubbled section with pervasive limonite alteration.
8.18	12.35	4.17	GRD	GRD	FG	Same as general lith.
12.35	13.34	0.99	GRD	GRD	FG	Zone of pervasive limonite alteration. There is also a milky white quartz vein at 12.99 to 13.045 m.
13.34	20.90	7.56	GRD	GRD	FG	Same as the general lith.
20.90	23.95	3.05	QFP	DYK	FG	QFP dyke that is broken up at the upper contact. And we see local patchy pervasive alteration. There is also pervasive hematite atleration giving the core a dark purple / brown coloration. The phenocrysts are clay (argillic) altered and are light green / blue in color to white in the more oxidized zones. We have rare light grey quartz phenocrysts.
23.95	31.02	7.07	BXA	DYK	FG	QFP dyke that is brecciated. Same as above dyke but brecciated. Very strong gouge with clasts floating in the gouge. Dyke is light grey to buff colored with local pervasive limonite alteration. There is the same clay (argillic) alteration with white to light green phenocrysts. Local patchy hematite staining.
31.02	33.53	2.51	GRD	DYK	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration between the hematite? Or just very light pink hematite alteration? Broken up lower contact with a different dyke - similar to the one above.
33.53	38.22	4.69	BXA	DYK	FG	A QFP dyke that is light to medium grey with brown hues with local pervasive hematite staining that makes the core dark purple / brown. The upper contact is rubbled and we have weak to moderate brecciation. The phenocrysts are clay altered (argillic) that are white to light green/ blue in color. There is also rare glassy grey quartz phenocrysts.
38.22	41.00	2.78	GRD	DYK	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. Granodioritic in composition? There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration inbetween zones of stronger hematite or just very light pink hematite alteration? Lower contact is hard to deciper due to the pervasive limonite alteration and the brecciation.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
41.00	41.45	0.45	QFP	DYK	FG	Very altered QFP dyke that is strongly clay and limonite altered pervasively. There are glassy grey quartz phenocrysts that are disseminated. Gouge is occurring at the upper and lower contacts of this dyke 1 - 2 cm wide.
41.45	42.38	0.93	GRD	GRDA	MG	Zone with patchy pervasive limonite coming in along fracture surfaces as well as strong white clay alteration.
42.38	45.92	3.54	GRD	GRDA	FG	Zone that has moderate chloritic alteration with moderate potassic alteration. We also see local zones of argillic (clay) alteration that is light blue in color. We see this alteration around quartz veining as well as some local fractures. Also along fractures we see limonite staining.
45.92	47.98	2.06	GRD	GRDA	MG	Zone of rubble and minor gouge with some minor competent core as well. Rubble - 80%, Gouge - 5%, Competent core - 5%. This zone has strong chloritic alteration with moderate potassic. Also there is local zones of pervasive limonite alteration.
47.98	48.29	0.31	GRD	GRDA	MG	Patch of strong chloritic alteration with moderate potassic alteration as well as patchy weak argillic (clay) alteration. There is disseminated black biotite.
48.29	51.84	3.55	GRD	GRDA	MG	Zone with patchy pervasive limonite alteration. As well we have strong clay (argillic) alteration in non-limonitic zones with weak to moderate potassic alteration. This interval has black biotite dissemianted. A small zone of rubble in this interval at 51.11 to 51.55 m.
51.84	64.49	12.65	GRD	GRDA	MG	Mixed zone of alteration the zones of moderate chloritic alteration with potassic alteration. As well we have white clay (argillic) alteration with potassic alteration. Along most fracture surfaces we see limonite alteration. There is some weak rubbled zone in this interval as well.
64.49	66.16	1.67	GRD	GRDA	MG	Small fault zone with rubble and some minor gouge. Rubble - 95% and Gouge - 5%. Along fracture surfaces we see chlorite and calcite.
66.16	70.10	3.94	GRD	GRDA	MG	Zone that is light grey to light blue in color. There is strong white clay (argillic) alteration with light grey/ blue sericite alteration? That is pervasive. The core is fairly soft. This unit has weak gouge along fracture surfaces. Sharp lower contact. There is limonite coming in along fracture surfaces as well as MnOx locally. There are 3 small quartz / sulphide veins in this interval. 66.34 - 66.36 m: there is a shallowly dipping quartz / sulphide vein that is running sub parallel tca till 66.57 m where it disappears into a brecciated zone. Quartz is milky white with a local pink hue and blebby pyrite and trace galena. There is strong patchy carbonate alteration in this quartz vein as well. 62.10 - 62.32 m - there is a quartz/ carbonate vein running sub parallel tca (possibly an extension of the previous vein but can't tell). The vein is 1 cm wide. Pyrite is occurring along the vein selvage. There is another quartz/ sulphide vein at 69.75 - 69.93 m - vein is 1.5 cm wide and is shallowly dipping. The quartz is milky white with white calcite alteration. Blebby pyrite and sphalerite are occurring along the vein selvage.
70.10	75.10	5.00	GRD	GRDA	MG	Zone of strong clay (argillic) alteration that is white. We have moderate to strong potassic alteration with the clay. Locally there is dark green chloritic alteration. Black biotite is disseminated in this interval. We have limonite alteration coming in along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
75.10	77.70	2.60	QFP	DYK	FG	Light grey to medium grey with dark purple locally QFP dyke. The phenocrysts have clay (argillic) alteration that is white in color. There is also glassy grey quartz phenocrysts. There is a small 0.5 cm wide quartz sulphide vein at 76.63 - 76.635 m. There is white quartz with blebby galena as well as honey brown sphalerite. The sphalerite is inergrown with with galena. There is also local breccia zone at 77.31 - 77.43 m.
77.70	80.03	2.33	FLT	DYK	FG	Same dyke as above but faulted. Small fault zone before we enter a breccia zone below. Dark grey with a light green tinge to the core. Phenocrysts are clay (argillic) altered. There is also a small breccia zone at 78.23 - 78.37 m. Rubble - 60%, Competent core - 30%, Breccia - 10%.
80.03	85.12	5.09	BXA	DYK	FG	Same dyke as above but brecciated. Light grey to medium grey in color. Phenocrysts are clay (argillic) altered. Strong local gouge sections up to 44 cm wide. Possible section of granodiorite? But had to tell due to the pervasive limonite and chlorite alteration - 83.86 - 84.85 m. This interval is right before the large gouge zone.
85.12	89.31	4.19	QFP	DYK	FG	Dark grey with a green tinge QFP dyke. Same as above just not brecciated. Locally we see limonite coming in along fracture surfaces. There is a light grey and white quartz vein running subparallel tca near the beginning of interval.
89.31	92.05	2.74	GRD	DYK	MG	Same dyke as 31.02 - 33.53 and 38.22 - 41.00 m . Porphyritic feldspar dyke with possible granodioritic composition? The alteration looks identical to a granodiorite. There is strong white clay (argillic) alteration with moderate to strong potassic alteration. There is disseminated black biotite as well in this unit. At the upper contact we see dark purple hematite alteration - patchy and local in the rest of the interval. We also see strong patchy limonite alteration coming in along fracture surfaces. Sharp lower contact.
92.05	94.50	2.45	GRD	DYK	MG	Altered granodiorite. Dark green chloritic alteration with weak potassic alteration turning into weak chloritic alteration with strong potassic alteration. There is black disseminated biotite. Along some fractures and quartz veining there is white clay (argillic) alteration. Locally there is silica flooding around a quratz vein turning the core light grey in color. Sharp lower contact. Local limonite alteration along fracture surfaces at the start of the interval.
94.50	96.01	1.51	GRD	FLT	FG	The first half of this interval has pervasive strong limonite alteration along fracture surfaces and the last half is all rubbled and broken up.
96.01	96.76	0.75	GRD	FLT	FG	Zone with a shear going down core axis that is infilled with white quartz and disseminated pyrite.
96.76	98.05	1.29	GRD	FLT	FG	Same as general lith.
98.05	98.96	0.91	GRD	DYK	FG	Porphyritic dyke with feldspar that have been altered to white quartz. Sharp lower contact with granodiorite. There is medium green chloritic halo around quartz veining. There is a 5 cm wide gouge zone with pyrite disseminated in the gouge.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
98.96	104.80	5.84	GRD	DYK	MG	Variably altered granodiorite. There are areas of strong clay (argillic) alteration that is ranging from light blue to white with moderate potassic alteration. The other alteration we see is zones of strong chloritic alteration with moderate potassic alteration. At the lower contact there is a zone of pervasive limonite alteration. There is disseminated black biotite in both alteration zones. Sharp lower contact with dyke.
104.80	106.42	1.62	FEL	DYK	FG	Same as general lithology.
106.42	106.47	0.05	VEN	DYK	FG	Quartz / sulphide vein that has light grey quartz with blebby pyrite and galena.
106.47	106.95	0.48	FEL	DYK	FG	Same as general lithology
106.95	107.56	0.61	FEL	DYK	FG	Zone of strong clay alteration that is white to light green in color. There is also moderate potassic alteration. The last half is starting to be strongly chloritic alteration. There are large pink phenocrysts in this interval made up of quartz. There is disseminated black biotite. Sharp lower contact.
107.56	108.57	1.01	FEL	DYK	FG	Same as general lithology
108.57	118.18	9.61	FEL	DYK	MG	Possible continuation of the above unit with different alterations. Possibly a granitic porphyritic dyke or a intrusion? Predominanlty we see strong chloritic alteration with moderate potassic alteration with large pink quartz phenocrysts. After 117.60 m we see strong clay alteration that is white with moderate potassic alteration and the same large pink phenocrysts. There is patchy hematite alteration in the lower alteration interval as well as patchy pervasive limonite alteration. Sharp lower contact with dyke that is brecciated. Around quartz veins there is light blue clay alteration. There is limonite coming in along fracture surfaces. Black biotite is disseminated in this interval.
118.18	130.45	12.27	QFP	DYK	FG	QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. At the upper contact we see a xenolith of the above dyke with a irregular contact with a re-lithified breccia with different sized clasts floating in a fine granined matrix at 118.49 - 118.71 m. Limonite is coming in along fracture surfaces. Locally pervasive near upper contact.
130.45	133.09	2.64	BXA	DYK	FG	Continuation of above qfp dyke but brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts.
133.09	145.40	12.31	QFP	DYK	FG	Continuation of the above dyke but not brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. There is patchy limonite coming in along fracture surfaces. Sharp lower contact with granodiorite. There is a small amount of gouge - 12 cm.
145.40	145.50	0.10	FLT	GRDA	FG	Zone of gouge between QFP dyke and granodiorite.
145.50	148.11	2.61	GRD	GRDA	CG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There is also a quartz/ sulphide vein coming out from a fracture with gouge along it at 146.70 m. The vein is 1 cm wide that is white and light grey in color with blebby pyrite and sphalerite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
148.11	149.70	1.59	GRD	GRDA	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.
149.70	150.50	0.80	GRD	GRDA	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There are thin quartz veinlets in this interval with mineralization - pyrite. At 150.10 - 150.11 m there is a milky white quartz vein with blebby pyrite. There is also a stringer of pyrite at 150.15 - 150.155 m.
150.50	150.88	0.38	GRD	GRDA	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.
150.88	153.66	2.78	GRD	GRDA	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. There is quartz veinlets with mineralization in this interval as well there are apalite dykes? Fine grained, silicous with sharp contacts. There are 4 in this interval. At 152.77 - 152.90 m there is a shallowly dipping quartz vein that is white with patchy pervasive limonite alteration as well as blebby pyrite.
153.66	153.73	0.07	VEN	GRDA	FG	Quartz sulphide vein. Light to dark grey to white fractured up quartz with bleby pyrite and sphalerite.
153.73	154.66	0.93	GRD	GRDA	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature.
154.66	156.68	2.02	GRD	GRDA	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration. There is a local section of strong chloritic alteration at the top of the interval.
156.68	157.50	0.82	GRD	GRDA	FG	Zone of strong white clay (kaolinite) alteration - almost pervasive in nature. Local patchy hematite alteration occurring in blebs. Also a quartz / sulphide vein at 156.91 - 156.97 m. Quartz is dark grey to white with blebby pyrite and sphalerite. There is also a 0.5 cm stringer of pyrite and spalerite at 157.37 m. Rubbled lower contact.
157.50	161.22	3.72	GRD	GRDA	CG	Zone of less altered more fresh granodiorite with weak chloritic alteration.
161.22	162.33	1.11	GRD	GRDA	MG	Zone of strong white clay alteration. Moderate potassic alteration in this interval as well it is more medium grained to coarse grained.
162.33	163.22	0.89	GRD	GRDA	CG	Zone of less alteration and more fresh. Weak blebby chlorite alteration.
163.22	164.74	1.52	GRD	GRDA	CG	Zone of strong white clay alteration with weak potassic alteration. As we get closer to the end of the interval the unit becomes silicified.
164.74	165.83	1.09	GRD	GRDA	CG	Zone that has pervasive alteration chloritic? That is obliterating most of the original texture of the granodiorite. It getting weaker as we get closer to the end of the interval and we start to see individual grains again.
165.83	167.81	1.98	SIL	DYK	FG	Zone that is super silicious and fine grained. Light grey to green in color with local spots where we can see the granodiorite with sharp contacts. There are white phenocrysts that are clay alterered. There is also patchy hematite staining. There is pyrite infilling in fractures locally.
167.81	171.60	3.79	GRD	GRDA	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. There is one apalite dyke? In this section at 168.95 - 169.10 m.
171.60	172.72	1.12	GRD	GRDA	CG	Zone of strong white clay (kaolinite?) alteration and grading into a bleached silicious zone after 172.21 m.
172.72	174.09	1.37	GRD	GRDA	CG	Zone of silicious alteration - light grey in color. We also see bands of potassic light pink to salmon colored alteration where is it usually more disseminated and spread out. There is also a apalite dyke? At 173.73 - 173.86 m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
174.09	175.88	1.79	GRD	GRDA	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. There are also two dykes?/ veins? That have quartz and k feldspar phenocrysts with sharp upper and lower contacts. They occur at 175.10 - 175.15 m and 175.80 - 175.85 m.
175.88	176.59	0.71	GRD	GRDA	CG	Zone of bleaching and silicification due to quartz stringers coming. There are still some observable grains that are clay altered. Sharp upper and lower contacts.
176.59	179.31	2.72	GRD	GRDA	CG	More fresh weakly altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. Sharp lower contact with white clay alteration. As well there are two dykes?/ veins? That have quartz and k feldspar phenocrysts with sharp upper and lower contacts. They occur at 177.43 - 177.54 and 178.31 - 178.35 m. Lower contact is rubbled and broken for 3 cm.
179.31	182.83	3.52	GRD	GRDA	CG	Zone of strong white clay (kaolinite?) alteration. At the upper contact we see moderate potassic alteration (light pink in color). There are also local zones of black biotite dissemianted in this interval. Thre is also patchy dark purple hematite alteration. Sharp lower contact. There is also a small brecciated zone at 180.35 to 180.64 m.
182.83	184.96	2.13	GRD	GRDA	CG	Mixed zone of alteration. At the upper contact we see strong dark chloritic alteration making the core look like a dark diorite with black and white. Then it grades into a more fresh granodiorite with weak potassic alteration overprinted with weak white clay alteration - blebby. Then at the lower contact with the sulphide ven it is very bleached and silicified.
184.96	185.09	0.13	VEN	VEIN	CG	Quartz sulpide vein. Milky white quartz with massive pyrite. Pyrite is fresh and very coarse grained. There is a silicious alteration halo around this vein as well we have some blebby pyrite in stringers around the vein.
185.09	187.75	2.66	GRD	GRDA	CG	A mixed zone of alteration at the upper contact we see some silicification due to the quartz/ sulpide vein. In this interval there is dark green chloritic alteration with weak white clay alteration coming in blebby. There is also weak potassic alteration (light pink) in less chloritic rich areas. There is also patchy hematite along fracture surfaces. Fracturing is occurring throughout this interval infilled with clay as well as calcite and quartz.
187.75	189.19	1.44	FLT	GRDA	CG	Small fault zone/ possible shear. Strong dark green chloritic alteration as well as light green/ yellow clay alteration. We see fresh coarse grained pyrite in gouge and along fracture surfaces. Rubble - 65%, competent core - 30%, and gogue - 5%.
189.19	190.63	1.44	GRD	GRDA	CG	A zone of strong white clay (kaolinite?) alteration. Thre is also at the upper contact a quartz vein zone to 189.34 m. After this vein zone there is an altered zone with patchy hematite and light green clay alteration.
190.63	192.56	1.93	GRD	GRDA	CG	A silicified version of the above unit. Strong white clay (kaolinite?) alteration with abundant quartz veining and silicification due to veining. Quartz veins are light to dark grey in color predominantly and are locally cherty in nature. We also see blebby pyrite in local concentrations throughout this interval. At the lower contact we see strong silicification with patchy hematite alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
192.56	193.42	0.86	GRD	GRDA	CG	Zone of dark green chloritic alteration with patchy epidote alteration as well. At the upper contact we can see less altered granodiorite and then grades into the strong chloritic alteration. Sharp lower contact with more fresh granodiorite.
193.42	195.95	2.53	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration (light pink). Weakly foliated. Sharp lower contact with strong white clay alteration.
195.95	199.04	3.09	GRD	GRDA	CG	Zone of strong white (kaolinite?) clay alteration. Locally we see light blue / green clay. There is moderate to strong potassic alteration in this interval. There is a local vein with a silicification halo around it - 196.75 - 197.60 m. There is a 5 cm gouge section at the lower contact.
199.04	200.43	1.39	GRD	GRDA	CG	Zone of fresh less altered granodiorite but also local sections of fine grained and more massive in nautre. Strong chloritic blebby alteration. With local blebby epidote as well as hematite staining.
200.43	202.32	1.89	GRD	FLT	CG	Small fault zone that is predominantly rubble - 85% and competent core - 15%. There is strong chloritic alteration coming in along fracture surfaces. There also is a quartz/ k-feldspar (phenocrystic) dyke?/ Vein? In this interval at 200.83 - 200.88 m.
202.32	202.37	0.05	GRD	GRDA	CG	Strong white clay alteration with rubble zone in the middle of the core. There is also the quartz/ feldspar phenocrystic dyke? / vein? In this interval as well.
202.37	204.83	2.46	GRD	GRDA	CG	Dark green pervasive chloritic alteration with light pink phenocrysts. There is also the small quartz/ sulphide veinlet in this interval.
204.83	209.64	4.81	GRD	FLT	CG	Fault zone in altered granodiorite with strong pervasive chloritic alteration for most of the fault and becoming less altered as we get closer to the end of the interval. Rubble - 70%, Competent core - 25% and gouge - 5%. In this interval there are the fine grained apalite dykes? As well as the quartz/ k feldspar phenocrystic dykes? Or Veins?.
209.64	215.88	6.24	GRD	GRDA	CG	Same as general lithology. There is a large quartz/ k feldspar phenocrystic dyke? / Vein? At 211.38 - 211.50 m. At 211.98 - 212.44 m there is a zone of 4 of these dykes/ veins? Range in size from 1 cm to 1.5 cm wide. There is a large blebby contcentration of pyrite at 213.99 - 214.03 m - appears to have come in along a fracture with a light green yellow alteration. There is an apalite dyke at 215.32 - 215.43 m. At the lower contact there is another QF phenocrystic dyke/ vein??
215.88	217.00	1.12	GRD	GRDA	CG	Zone of strong light blue clay alteration. There are two small quartz / sulphide veinlets in this interval with pyrite and sphalerite.
217.00	218.62	1.62	GRD	FLT	CG	Small fault zone in altered granodiorite. Rubble - 85% and Competent core - 15%. The first half of the interval has strong chloritic alteration while the lower half has strong white clay (kaolinite?) alteration. Sharp lower contact.
218.62	221.18	2.56	GRD	GRDA	CG	Less altered and more fresh zone of coarse grained granodiorite. There is weak potassic (light pink) alteration as well as blebby dark green chloritic alteration. As we approach the lower contact we start to see strong pervasive chloritic alteration as well as patchy epidote. There is also a QF phenocrystic dyke/ vein occuring in this interval at 219.96 - 220.01 m. Lower contact is faulted.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
221.18	222.03	0.85	GRD	FLT	CG	Small fault zone made up of fine rubble and chips.
222.03	224.74	2.71	GRD	GRDA	CG	Mixed zone of more chloritic alteration with some weak potassic alteration (light salmon colored) as well we see more fresh less altered granodiorite. There is a small shear at 223.30 to 223.68 m. As well there is blebby pyrite locally concentrated with a larger concentration on potassic (223.90 - 223.98 m).
224.74	225.97	1.23	GRD	GRDA	CG	Zone of strong white clay alteration as well as light blue clay at the upper contact with the moderate potassic alteration and as the alteration become white we lose the potassic alteration.
225.97	226.43	0.46	GRD	GRDA	CG	Zone of fresh less altered granodiorite with blebby chloritic alteration as well as some weak potassic alteration. Broken up upper contact with weak gouge. Sharp lower contact.
226.43	227.08	0.65	GRD	GRDA	CG	Zone of strong white clay alteration as well as light blue with the weak potassic (light pink) alteration. This interval has two quartz/ sulphide veins at 226.70m - 226.74 and 228.42 - 228.45 m. The first one has light grey to white quartz with blebby sphalerite and pyrite. The second one is white to light / dark grey quartz and blebby pyrite and galena. There is also local blebs of pyrite.
227.08	231.65	4.57	GRD	GRDA	CG	Zone of dark chloritic alteration with light grey quartz blebs visible. There is local blebs of epidote in this interval. As well as some local potassic (light salmon colored) alteration. There is also some blebby pyrite locally.
231.65	233.62	1.97	GRD	GRDA	CG	Zone of strong white clay alteration as well as light blue clay alteration. Theres also moderate to weak potassic alteration. Also there is dark green chloritic alteration coming in along fracture surfaces.
233.62	234.65	1.03	BXA	GRDA	CG	Alterered granodiorite that is breciated. Strong white clay alteration with moderate potassic alteration (light to medium pink in color). Dark chloritic alteration coming in along fracture surfaces. Gouge is coming in along fracture surfaces.
234.65	236.34	1.69	GRD	GRDA	CG	Zone of strong white to light blue clay alteration with patchy potassic alteration as well as some local hematite. There is also some patchy blebby pyrite.
236.34	237.44	1.10	GRD	GRDA	CG	More fresh granodiorite with chloritic alteration coming in along fracture surfaces. There is patchy hematite as well as patchy epidote in this interval.
237.44	238.12	0.68	GRD	GRDA	CG	Zone of strong white / light blue clay alteration with moderate potassic alteration. There is a quartz vein in this interval 4 cm wide with minor sulphides.
238.12	241.33	3.21	GRD	GRDA	CG	More fresh granodiorite with chloritic alteration coming in along fracture surfaces.
241.33	241.47	0.14	VEN	GRDA	CG	White quartz with light green/ yellow clay alteration as well as a light orange/ salmon colored alteration. Trace blebby pyrite in this interval.
241.47	243.84	2.37	GRD	GRDA	CG	Zone of white/ light blue clay alteration with weak potassic alteration.
243.84	244.40	0.56	GRD	GRDA	CG	Zone of pervasive chloritic alteration that is bleached white due to the quartz vein at the lower contacts.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
244.40	244.54	0.14	VEN	VEIN	CG	Light to dark grey to white quartz vein with mineralization. Vein appears to be brecciated and broken up. There is pathy clay alteration in the quartz that is light green/ yellow. There is also patchy dark green chloritic alteration on the fracture surfaces. There is blebby disseminated pyrite as well as some arsenopyrite in this vein as well.
244.54	244.88	0.34	GRD	GRDA	CG	Small slice of altered granodiorite that is strongly white clay altered as well as light blue clay locally. There is also patchy weak potassic alteration (light pink). Sharp lower contact with silicious (vein? Zone).
244.88	245.94	1.06	VEN	GRDA	FG	Possible very silicified granodiorite? Or a silicious dyke? Light green yellow in color with local patches of clay alteration that is white. There is also local potassic (light salmon colored) to patches as well. Patchy hematite alteration predominantly occurring in the upper half of the interval.
245.94	246.28	0.34	GRD	GRDA	CG	Zone of strong white clay alteration with local light blue clay alteration as well as weak potassic alteration.
246.28	247.49	1.21	GRD	GRDA	CG	Mixed zone of more fresh granodiorite with less alteration grading into a zone that is strongly chloritic altered.
247.49	248.59	1.10	GRD	GRDA	CG	Mixed zone of alteration. The interval appears chloriticly altered at the start and end of the interval with pervasive silicification. Unit is fractured with chlorite coming in along it as well there is disseminated patchy pyrite.
248.59	252.51	3.92	GRD	GRDA	CG	Zone of strong white clay alteration with local light blue clay alteration as well as weak potassic alteration. There is patchy hematite atleration. There is fracturing infilled with chlorite. Local quartz veining with mineralization as well as a local zone with quartz / k feldspar phenocrystic dyke/ vein? (249.08 - 249.28 m). There is also a quartz/ sulphide vein at 251.24 - 251.28 m that has dark grey quartz with blebby pyrite, sphalerite and galena.
252.51	253.82	1.31	GRD	GRDA	CG	Zone of dark green pervasive chloritic alteration. There is local patchy potassic alteration.
253.82	254.06	0.24	GRD	GRDA	CG	Zone of strong white clay alteration with a small quartz / sulphide stringer with pyrite and sphalerite near the end of the interval.
254.06	254.42	0.36	GRD	GRDA	CG	Zone of less altered granodiorite with only blebby chloritic alteration and weak potassic alteration.
254.42	254.88	0.46	GRD	GRDA	CG	Zone of strong white clay alteration with patchy chloritic alteration. There is also a quartz / sulphide vein at 254.76 - 254.80 m. Light grey and white quartz with blebby pyrite.
254.88	259.08	4.20	GRD	GRDA	CG	Mixed zone of less altered granodiorite with zones of strongly chloritic altered granodiorite. Sharp lower contact. Patchy epidote in this interval as well as patchy potassic alteration. In this interval there is also the phenocrystic quartz/ k feldspar dykes? / Veins?
259.08	259.67	0.59	GRD	GRDA	CG	Strong white and light blue clay alteration with moderate to strong potassic alteration. Sharp lower contact.
259.67	261.93	2.26	GRD	GRDA	CG	Mixed zone of less altered and strongly chloritic alteration. Chlorite appears to be coming in along fracture surfaces. There is moderate potassic alteration in the less altered zones of the granodiorite. There is also patchy bleby epidote alteration occurring in the strongly chloritic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
261.93	264.35	2.42	GRD	FLT	CG	Fault zone in altered granodiorite. The granodiorite is pervasively chloritic altered at the first half of the interval and then grading into a less altered granodiorte. There is weak to moderate potassic alteration occurring in the lesser altered granodiorite. This fault is predominantly rubble - 70% and competent core - 30%.
264.35	265.35	1.00	GRD	GRDA	CG	Zone of strong white/ light blue clay atleration with local silicious zones. There is weak patchy potassic alteration. Local chlorite coming in along fractures.
265.35	266.70	1.35	GRD	GRDA	FG	Zone of silica flooding? Fine grained and strong. Light grey to light pink in color.
266.70	267.55	0.85	GRD	GRDA	CG	zone of strong white/ light blue clay atleration. There is weak patchy potassic alteration. Local chlorite coming in along fractures. Locally the chlorite is bleeding into the clay alteration turning in locally green as well there is patchy hematite alteration.
267.55	271.63	4.08	GRD	GRDA	CG	Mixed zone of less altered granodiorite with more pervasively chloriticly altered. In the zones with less chloritic alteration we see patchy potassic alteration as well as local bands of potassic alteration.
271.63	277.37	5.74	GRD	FLT	CG	Fault zone in variably altered granodiorite. There are large zones of less altered granodiorite with blebby chloritic alteration as well as potassic. There are pervasive chloritic alteration zones as well. In the rubble the fracture surfaces are coated in chlorite, calcite or hematite locally. This fault is predominatly rubble - 80% and 20% competent core.
277.37	279.96	2.59	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration and weak potassic alteration. Chlorite is coming in along fracture surfaces. There is also a local area of strong chloritic alteration.
279.96	280.53	0.57	GRD	GRDA	CG	Zone of strong white clay alteration with moderate potassic alteration (light pink in color). Sharp lower contact.
280.53	285.37	4.84	GRD	GRDA	CG	Mixed zone of alterations with fresh less altered granodiorite mixed with zones of strong pervasive chloritic alteration. The less altered granodiorite has blebby chloritic alteration as well as weak potassic (light pink) alteration. Theres also chlorite coming in along fracture surfaces in this interval. In the more chloritic zones we also see sericite alteration. There are 3 apalite? Dykes in this interval that are fine grained, silicious and are dark brick red to light pink/ salmon colored.
285.37	285.80	0.43	FLT	GRDA	CG	Small fault zone with rubble.
285.80	286.78	0.98	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration (light pink). Sharp lower contact.
286.78	287.58	0.80	GRD	GRDA	CG	Zone of pervasive chloritic alteration with some weak sericite alteration. Theres also local patches of less altered granodiorite that are small and circular. Sharp lower contact with apalite? Dyke.
287.58	288.18	0.60	GRD	GRDA	CG	Large apalite dyke? At the beginning of the interval. Then we have storng white clay alteration with blebby pyrite. The apalite dyke goes from 287.58 to 287.81 m.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
288.18	293.76	5.58	GRD	GRDA	CG	Zone of less altered granodiorite and locally appears weakly foliated. There is weak chloritic alteration as well as weak potassic alteration (light pink). There is patchy blebby epidote in this interval. This interval also has 3 quartz/ k feldspar dykes?/ veins? - 291.13 - 291.15 m and 291.57 - 291.63 m - there are two close together.
293.76	294.72	0.96	GRD	GRDA	CG	Zone of strong white clay alteration with light blue as well. Local quartz veining with some pyrite. There is also a apalite dyke at the end of the interval that is 5 cm wide and shallowly dipping.
294.72	296.17	1.45	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration that appears foliated. There are 4 phenocrystic quartz/ k-feldspar dykes?/ veinlets? - 295.50 - 295.51m, 295.53 - 294.54, 295.75 - 295.755 m, and 295.90 - 295.97 m - two in this interval.
296.17	296.71	0.54	GRD	GRDA	CG	Zone of strong white clay alteration that has been silicified due to the vein zone occurring at the lower contact.
296.71	297.31	0.60	VEN	VEIN	FG	Quartz vein zone with sulpides occurring in the quartz veining. The main quartz vein is 296.82 - 296.96 m.Quartz is light grey to dark grey with brecciated white quartz grains occurring in the center of the vein. Pyrite is occurring in fine grained bands before the vein as well as some arsenopyrite that is also fine grained and occurring in bands. There are open space cavities occurring in this vein as well that range in size from 2 - 8 mm wide and 4 mm to 2 cm wide. Inside the cavities are some weak light grey re-crystallizaiton. In the main part of the vein there is blebby pyrite, sphaleriate and some galena. There are quartz stringers and veinlets occurring in this interval as well mostly with pyrite but also some sphalerite. At the lower contact we seom brecciation with a mix of dyke as well as quartz veining. There is also strong white clay alteration occurring as the wall rock.
297.31	308.88	11.57	QFP	DYK	FG	QFP dyke that is light grey / green to darker grey / green as well as local zones of dark purple brown. Phenocrysts are clay altered light green to white as well there are glassy grey quartz phenocrysts. There is local quartz veining as well as silicified granodiorite with the quartz veining that is white in color with dark grey quartz infilling fractures. A fine grained xenolith is occurring in this interval as well. Zones of silicious granodiorite / quartz veining occurring at 305.90 - 306 m, 307.32 - 307.50 m, and 307.63 - 308.71 m. At 207.57 - 207.60 m there is a quartz vein with fine grained pyrite clustered together.
308.88	311.10	2.22	FLT	GRDA	FG	Faulted and silicified zone. Rubble - 20%, Gouge - 30%, Competent core - 50%. Zone is light grey to white in color. There is also some local light grey glassy quartz veining.
311.10	316.99	5.89	GRD	GRDA	CG	Zone of less altered granodiorite with weak to moderate potassic alteraiton (light pink) in color and appears weakly foliated. There is a large quartz / k feldspar phenocrystic dyke?/ vein at 313.49 to 313.63 m. There is a small one at 315 to 315.39 m that runs sub-parallel tca and is locally displaced by fracturing. There is local hematite staining along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.35	0.35	CAS	--	No core recovered - casing.							
0.35	1.80	1.45	OVB	FG	Predominantly residual soil but also some competent core - 3 cm wide. Soil is dark brown in color.							
						MD	BN					
						DK	BN					
						DK	GY					
						DK	BK					
1.80	20.90	19.10	GRD	FG	Medium to dark grey to almost black fine grained fresh granodiorite. There are local zones of pervasive limonite alteration Limonite is coming in along fracture surfaces as well. There are local rubble zones in this interal as well. There are thin quartz / carbonate stringers throughout this interval. Pervasive limonite alteration at 4.57 to 5.92 m as we go down the interval we see less oxidization. Also at 7.62 - 8.18 m is a rubble zone with pervasive limonite alteration. 12.35 - 13.38 m also has a zone of pervasive limonite alteration. Fine to medium grained, fresh, disseminated pyrite - very trace.							
						DK	GY	AN	LIM	2I	Py	0.01
						DK	BK					
20.90	23.95	3.05	QFP	FG	QFP dyke that is broken up at the upper contact. And we see local patchy pervasive alteration. There is also pervasive hematite atleration giving the core a dark purple / brown coloration. The phenocrysts are clay (argillic) altered and are light green / blue in color to white in the more oxidized zones. We have rare light grey quartz phenocrysts.							
						LT	BL					
						MD	OR					
						LT	GN		LIM	2I		
						DK	BR		HEM	2I		
						DK	PU	PO	CLY	3I		
						DK	OR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.95	31.02	7.07	BXA	FG	QFP dyke that is brecciated. Same as above dyke but brecciated. Very strong gouge with clasts floating in the gouge. Dyke is light grey to buff colored with local pervasive limonite alteration. There is the same clay (argillic) alteration with white to light green phenocrysts. Local patchy hematite staining.							
						LT	GY		LIM	2I		
						LT	BF		HEM	1I		
						MD	OR					
						DK	OR					
31.02	33.53	2.51	FEL	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. Granodioritic in composition? There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration between the hematite? Or just very light pink hematite alteration? Broken up lower contact with a different dyke - similar to the one above.							
						LT	PK	PO	HEM	2I	Bi	0.1
						MD	PU		POT	2I		
						DK	PU		CLY	3I		
						LT	GY					
33.53	38.22	4.69	BXA	FG	A QFP dyke that is light to medium grey with brown hues with local pervasive hematite staining that makes the core dark purple / brown. The upper contact is rubbled and we have weak to moderate brecciation. The phenocrysts are clay altered (argillic) that are white to light green/ blue in color. There is also rare glassy grey quartz phenocrysts.							
						LT	WH					
						LT	BL					
						MD	GY		HEM	2I		
						LT	GY	PO	CLY	3I		
						DK	PU					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
38.22	41.00	2.78	FEL	MG	A porphyritic feldspar dyke with feldspars (laths) that have argillic alteration. Granodioritic in composition? There is black biotite disseminated in this interval. There is also some purple / red hematite locally. There is strong light blue clay (argillic?) as well it appears to have moderate potassic alteration inbetween zones of stronger hematite or just very light pink hematite alteration? Lower contact is hard to deciper due to the pervasive limonite alteration and the brecciation.							
						LT	GY	PO	HEM	3I	Bi	0.1
						DK	PU		CLY	3I		
						MD	PK		POT	3I		
						LT	BL					
41.00	41.45	0.45	QFP	FG	Very altered QFP dyke that is strongly clay and limonite altered pervasively. There are glassy grey quartz phenocrysts that are disseminated. Gouge is occurring at the upper and lower contacts of this dyke 1 - 2 cm wide.							
						LT	WH	PO	CLY	4I		
						MD	OR		LIM	4I		
						DK	OR					
41.45	64.49	23.04	GRD	FG	Fine to locally medium grained granodiorite that is variably altered. This granodiorite has argillic (clay) alteration that is light blue in color to white. There is also patchy pervasive limonite alteration. There is local rubble zones in this interval as well. Black biotite is disseminated throughout most of this interval.							
						MD	OR		LIM	3I		
						DK	OR					
						LT	PK		POT	3I		
						LT	GY		CLY	3I	Bi	0.1
						LT	WH					
64.49	66.16	1.67	GRD	MG	Small fault zone with rubble and some minor gouge. Rubble - 95% and Gouge - 5%. Along fracture surfaces we see chlorite and calcite.							
						MD	GN		CHL	3I		
						MD	PK		POT	3I		
						LT	WH					
						LT	BL					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
66.16	75.10	8.94	GRD	MG	Variably altered granodiorite. Zones with strong white clay (argillic) alteration with moderate potassic alteration - the predominant alteration. In these zones we also see local dark green chloritic alteration coming in. Black biotite is disseminated throughout this interval. Along fracture surfaces there is limonite alteration. Locally there is gouge along fracture surfaces.							
						LT	GY		CLY	4I	Bi	0.1
						LT	WH		POT	3I	Py	0.1
						LT	PK		CHL	2I		
						MD	PK					
						DK	GN					
75.10	77.70	2.60	QFP	FG	Light grey to medium grey with dark purple locally QFP dyke. The phenocrysts have clay (argillic) alteration that is white in color. There is also glassy grey quartz phenocrysts. There is a small 0.5 cm wide quartz sulphide vein at 76.63 - 76.635 m. There is white quartz with blebby galena as well as honey brown sphalerite. The sphalerite is inergrown with with galena. There is also local breccia zone at 77.31 - 77.43 m.							
						LT	GY	PO	CLY	3I	Gn	0.1
						LT	WH					
						DK	PU		HEM	1I	Sp	0.1
77.70	80.03	2.33	FLT	FG	Same dyke as above but faulted. Small fault zone before we enter a breccia zone below. Dark grey with a light green tinge to the core. Phenocrysts are clay (argillic) altered. There is also a small breccia zone at 78.23 - 78.37 m. Rubble - 60%, Competent core - 30%, Breccia - 10%.							
						MD	GY	PO	CLY	3I		
						LT	GN					
80.03	85.12	5.09	BXA	FG	Same dyke as above but brecciated. Light grey to medium grey in color. Phenocrysts are clay (argillic) altered. Strong local gouge sections up to 44 cm wide. Possible section of granodiorite? But had to tell due to the pervasive limonite and chlorite alteration - 83.86 - 84.85 m. This interval is right before the large gouge zone.							
						LT	GY	PO	CLY	3I		
						MD	GY		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH		LIM	2I		
						DK	OR					
						DK	GN					
85.12	89.31	4.19	QFP	FG	Dark grey with a green tinge QFP dyke. Same as above just not brecciated. Locally we see limonite coming in along fracture surfaces. There is a light grey and white quartz vein running subparallel tca near the beginning of interval.							
						MD	GY	PO	CLY	3I		
						LT	GN		LIM	3I		
89.31	92.05	2.74	FEL	MG	Same dyke as 31.02 - 33.53 and 38.22 - 41.00 m . Porphyritic feldspar dyke with possible granodioritic composition? The alteration looks identical to a granodiorite. There is strong white clay (argillic) alteration with moderate to strong potassic alteration. There is disseminated black biotite as well in this unit. At the upper contact we see dark purple hematite alteration - patchy and local in the rest of the interval. We also see strong patchy limonite alteration coming in along fracture surfaces. Sharp lower contact.							
						LT	PK	PO	POT	3I	Bi	0.1
						DK	OR		HEM	1I		
						LT	WH		CLY	4I		
						DK	PU		LIM	2I		
92.05	94.50	2.45	FEL	MG	Possible granitic intrusion or dyke? Possibly a continuation of the above dyke but with different alteration? There are disseminated pink phenocrysts made up of qiuartz that are disseminated in this interval. Dark green chloritic alteration with weak potassic alteration turning into weak chloritic alteration with strong potassic alteration. There is black disseminated biotite. Along some fractures and quartz veining there is white clay (argillic) alteration. Locally there is silica flooding around a quratz vein turning the core light grey in color. Sharp lower contact. Local limonite alteration along fracture surfaces at the start of the interval.							
						DK	GN	PA	POT	4I	Bi	0.1
						MD	GY		CHL	3I		
						MD	PK		CLY	2I		
									LIM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
94.50	98.05	3.55	FEL	FG	A very altered version of the dyke above? Or a very altered granodiorite?? That is light grey in color and very fine grained. This unit is also sheared / faulted. Sub parallel tca we seee shearing with sulphides coming in and infilling them as well as white quartz. There is dark orange to black limonite alteration coming in along fracture surfaces. Rubble - 55%. Possibly strongly clay altered - pervasively.							
						LT	GY	AN	LIM	3I	Py	0.5
						DK	OR		CLY	4I		
						DK	BN					
						DK	BK					
98.05	98.96	0.91	FEL	FG	Porphyritic dyke with feldspar that have been altered to white quartz. Sharp lower contact with granodiorite. There is medium green chloritic halo around quartz veining. There is a 5 cm wide gouge zone with pyrite disseminated in the gouge.							
						LT	GY	PO				
						LT	WH					
						MD	GY					
98.96	104.80	5.84	FEL	MG	Possible granitic intusive dyke??? Could be the same dyke as above but has different alteration done to it. There are local phenocrysts that are pink in color and made of quartz (pink possibly due to the potassic alteration. There are areas of strong clay (argillic) alteration that is ranging from light blue to white with moderate potassic alteration. The other alteration we see is zones of strong chloritic alteration with moderate potassic alteration. At the lower contact there is a zone of pervasive limonite alteration. There is disseminated black biotite in both alteration zones. Sharp lower contact with dyke.							
						MD	GN	PH	CLY	4I	Bi	0.1
						MD	PK		POT	3I		
						LT	WH		CHL	3I		
						LT	BL					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
104.80	108.57	3.77	FEL	FG	Possible continuation of above granitic dyke?/ intrusion? But silica flooded instead of the other alterations. The dyke is porphyritic with white phenocrysts that have been clay altered. Possibly altered due to the presence of a quartz/ sulphide vein at 106.42 - 106.48 m. Dyke is light grey in color with a local pink hue to the core. Along fracture surfaces we see limonite alteration. The lower contact is sheared and pulled low to core axis angle - 15 degrees tca.							
						LT	GY	PO	CLY	3I		
						LT	PK		SIL	3I		
108.57	118.18	9.61	FEL	MG	Possible continuation of the above unit with different alterations. Possibly a granitic porphyritic dyke or a intrusion? Predominanlty we see strong chloritic alteration with moderate potassic alteration with large pink quartz phenocrysts. After 117.60 m we see strong clay alteration that is white with moderate potassic alteration and the same large pink phenocrysts. There is patchy hematite alteration in the lower alteration interval as well as patchy pervasive limonite alteration. Sharp lower contact with dyke that is brecciated. Around quartz veins there is light blue clay alteration. There is limonite coming in along fracture surfaces. Black biotite is disseminated in this interval.							
						LT	WH		CLY	1I		
						MD	GY					
						MD	GN		POT	3I		
						LT	PK	PO	CHL	3I	Bi	0.1
118.18	130.45	12.27	QFP	FG	QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. At the upper contact we see a xenolith of the above dyke with a irregular contact with a re-lithified breccia with different sized clasts floating in a fine granined matrix at 118.49 - 118.71 m. Limonite is coming in along fracture surfaces. Locally pervasive near upper contact.							
						MD	GN					
						LT	WH					
						LT	GN					
						MD	OR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	PO	LIM	2I		
130.45	133.09	2.64	BXA	FG	Continuation of above qfp dyke but brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts.							
						MD	GY	PO				
						LT	GN					
133.09	145.40	12.31	QFP	FG	Continuation of the above dyke but not brecciated. QFP dyke that is light green / grey in color with light green and white clay (argillic) altered phenocrysts. We also have light grey glassy quartz phenocrysts. There is patchy limonite coming in along fracture surfaces. Sharp lower contact with granodiorite. There is a small amount of gouge - 12 cm.							
						MD	GY	PO	LIM	1I		
						LT	GN					
145.40	165.83	20.43	GRD	CG	Variably altered coarse grained granodiorite with blebby grains with fuzzy boundaries. Different in nature than our other coarse grained granodiorite in that the boundaries of the individual grains aren't well defined. Locally this granodiorite is weakly foliated. Possibly due to movement while cooling? Locally we have almost pervasive white clay alteration (kaolinite?). These zones of strong clay alteration are associated with quartz veining or with these silicious dykes? They are fine grained and have sharp contacts appearing to cut the granodiorite. Apalite dykes?? There is also dark green chloritic alteration coming in along fracture surfaces. There is also some local potassic alteration associated with this clay alteration. There is possible epidote occurring at 159.06 along a vein selvage.							
						DK	GN					
						MD	GN					
						MD	GY		CHL	2I		
						LT	WH					
						LT	PK					
						LT	GY	PH	CLY	5I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
165.83	167.81	1.98	SIL	FG	Zone that is super silicious and fine grained. Light grey to green in color with local spots where we can see the granodiorite with sharp contacts. There are white phenocrysts that are clay alterered. There is also patchy hematite staining. There is pyrite infilling in fractures locally.							
						LT	GY	AN	SIL	5I	Py	0.1
						LT	GN					
						LT	PK					
167.81	184.96	17.15	GRD	CG	Dark to light grey altered coarse grained granodiorite. That has fuzzy grain boundaries and is weakly foliated. There is also some blebby chloritic alteration as well we see chlorite coming in along fracture surfaces. Also we see quartz and calcite fracturing. Large hornblendes (phenocrysts) appear to be altered to chlorite in this interval. This interval also has potassic alteration occurring as a light pink to salmon color altering some grains. There are local apalite? Dykes in this interval as well that are fine grained, silicious and have sharp contacts. There is a zone of strong white (kaolinite?) clay alteration with hematite coming in along fracture surfaces in this zone. Epidote is occurring in this interval in trace amounts throughout this interval in fractures or in alteration zones. There are also these zones with quartz and k feldspar (vein?, dykes?) that have large pheocrysts of quartz and k-feldspar as well there is a light yellow green mineral? Or alteration product? occurring with the quartz/ kspar.							
						LT	GY	PH	POT	3I	He	0.1
						DK	BK					
						DK	GN					
						LT	WH					
						MD	GY		CHL	2I		
						LT	PK					
184.96	185.09	0.13	VEN	CG	Quartz sulpide vein. Milky white quartz with massive pyrite. Pyrite is fresh and very coarse grained. There is a silicious alteration halo around this vein as well we have some blebby pyrite in stringers around the vein.							
						LT	WH				Py	10

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
185.09	200.43	15.34	GRD	CG	Dark to light grey variably altered coarse grained granodiorite. That has fuzzy grain boundaries and is weakly foliated. There is also some blebby chloritic alteration as well we see chlorite coming in along fracture surfaces. This interval also has potassic alteration occurring as a light pink to salmon color altering some grains.There is a zone of strong white (kaolinite?) clay alteration with hematite alteration - patchy. There is a large quartz veining interval in this unit as well as local zones of dark chloritic alteration.							
						LT	PU					
						LT	GY	PH	CHL	3I		
						DK	GY		CLY	3I		
						DK	GN		POT	2I		
						LT	PK					
						LT	WH					
200.43	202.32	1.89	GRD	CG	Small fault zone that is predominantly rubble - 85% and competent core - 15%. There is strong chloritic alteration coming in along fracture surfaces. There also is a quartz/ k-feldspar (phenocrystic) dyke?/ Vein? In this interval at 200.83 - 200.88 m.							
						MD	GY					
						DK	GN	PH	POT	2I		
						LT	GY		CHL	4I		
						LT	PK					
202.32	204.83	2.51	GRD	CG	Variably altered granodiorite with sections of strong white clay (kaolinite?) with weak to moderate potassic (pink). As well as sections of strong chloritic alteration with light pink phenocrysts. There are two small sulphide veins - 0.5 cm wide with pyrite, sphalerite and galena as well as a quartz/ sulphide vein that that has pyrite and sphalerite - 4 cm wide.							
						MD	PK					
						LT	WH		CHL	3I	Gn	0.1
						DK	GN					
						LT	GY	PH	CLY	3I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
204.83	209.64	4.81	GRD	CG	Fault zone in altered granodiorite with strong pervasive chloritic alteration for most of the fault and becoming less altered as we get closer to the end of the interval. Rubble - 70%, Competent core - 25% and gouge - 5%. In this interval there are the fine grained apalite dykes? As well as the quartz/ k feldspar phenocrystic dykes? Or Veins?.							
						DK	GN		POT	2I		
						DK	GY	PH	CHL	4I		
						LT	PK					
						LT	WH					
209.64	217.00	7.36	GRD	CG	Variably altered granodiorite with zones of more fresh and less altered granodiorite that is coarse grained. There is weak potassic alteration throughout this interval as well as local strong chloritic alteration that is pervasive. There is also local patchy epidote in the more chloritic zones. There is a apalite dyke in this interval as well as the quartz/ k feldspar phenocrystic dyke?/ veins? As well.							
						DK	GN					
						LT	PK					
						LT	GY	PH	CHL	2I		
						LT	WH		POT	2I		
217.00	218.62	1.62	GRD	CG	Small fault zone in altered granodiorite. Rubble - 85% and Competent core - 15%. The first half of the interval has strong chloritic alteration while the lower half has strong white clay (kaolinite?) alteration. Sharp lower contact.							
						LT	BL					
						DK	GN	PH	CHL	3I		
						LT	WH		CLY	3I		
218.62	221.18	2.56	GRD	CG	Less altered and more fresh zone of coarse grained granodiorite. There is weak potassic (light pink) alteration as well as blebby dark green chloritic alteration. As we approach the lower contact we start to see strong pervasive chloritic alteration as well as patchy epidote. There is also a QF phenocrystic dyke/ vein occuring in this interval at 219.96 - 220.01 m. Lower contact is faulted.							
						DK	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK					
						LT	GY	PH	CHL	3I		
						LT	WH					
221.18	222.03	0.85	GRD	CG	Small fault zone made up of fine rubble and chips.							
						DK	GN		CHL	4I		
						LT	WH					
222.03	233.62	11.59	GRD	CG	Variably altered granodiorite with zones of more fresh and less altered granodiorite that is coarse grained. In the less altered zones we see weak potassic alteration (light pink in color). As well as weak blebby chloritic alteration. There are also zones of strong chloritic alteration with the same weak potassic alteration as well as patchy epidote. There is a third type of alteration where we see light blue to white strong clay alteration. Which locally has potassic alteration as well.							
						LT	GY	PH	CLY	3I		
						DK	GY		CHL	3I		
						LT	PK		POT	2I		
						LT	WH					
233.62	234.65	1.03	BXA	CG	Alterered granodiorite that is breciated. Strong white clay alteration with moderate potassic alteration (light to medium pink in color). Dark chloritic alteration coming in along fracture surfaces. Gouge is coming in along fracture surfaces.							
						MD	PK		CHL	2I		
						LT	WH	PH	CLY	4I		
						DK	GN		POT	3I		
234.65	244.40	9.75	GRD	CG	Variably altered granodiorite with zones of more fresh and less altered granodiorite that is coarse grained. In the less altered zones we see weak potassic alteration (light pink in color). As well as weak blebby chloritic alteration. In addition chlorite is coming in along fracute surfaces. There are also zones of strong chloritic alteteration. There is a third type of alteration where we see whtie to light blue strong clay alteration. Which locally has potassic alteration as well. There is local hematite as well as epidote in this interval as well.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN					
						LT	PK					
						LT	WH	PH	CLY	3I		
						MD	GY		CHL	3I		
						DK	GY		POT	2I		
244.40	244.54	0.14	VEN	CG	Light to dark grey to white quartz vein with mineralization. Vein appears to be brecciated and broken up. There is pathy clay alteration in the quartz that is light green/ yellow. There is also patchy dark green chloritic alteration on the fracture surfaces. There is blebby disseminated pyrite as well as some arsenopyrite in this vein as well.							
						LT	GY				Py	1
						MD	GY				As	0.5
						DK	GY					
						LT	WH					
244.54	244.88	0.34	GRD	CG	Small slice of altered granodiorite that is strongly white clay altered as well as light blue clay locally. There is also patchy weak potassic alteration (light pink). Sharp lower contact with silicious (vein? Zone).							
						LT	WH	PH	CLY	4I		
						LT	PK					
244.88	245.94	1.06	VEN	FG	Possible very silicified granodiorite? Or a silicious dyke? Light green yellow in color with local patches of clay alteration that is white. There is also local potassic (light salmon colored) to patches as well. Patchy hematite alteration predominantly occurring in the upper half of the interval.							
						LT	YW		HEM	1I		
						LT	WH					
						LT	GN		CLY	3I		
						LT	PK					
245.94	261.93	15.99	GRD	CG	Variable altered granodiorite with zones of strong white clay alteration as well as zone with strong chloritic alteration that is locally pervasive as well as a zone of less altered granodiorite with some chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH	PH	CLY	3I		
						LT	GY		CHL	3I		
						MD	GY		POT	2I		
						DK	GN					
						LT	PK					
261.93	264.35	2.42	GRD	CG	Fault zone in altered granodiorite. The granodiorite is pervasively chloritic altered at the first half of the interval and then grading into a less altered granodiorte. There is weak to moderate potassic alteration occurring in the lesser altered granodiorite. This fault is predominantly rubble - 70% and competent core - 30%.							
						DK	GN	PH	CHL	4I		
						LT	GY		POT	2I		
						LT	PK					
264.35	271.63	7.28	GRD	CG	Variable altered granodiorite with zones of strong white clay alteration as well as zone with strong chloritic alteration that is locally pervasive as well as a zone of less altered granodiorite with some chloritic alteration.							
						LT	PK					
						LT	BL					
						LT	WH		CLY	3I		
						DK	GN	PH	CHL	3I		
						LT	GY		POT	3I		
271.63	277.37	5.74	GRD	CG	Fault zone in variably altered granodiorite. There are large zones of less altered granodiorite with blebby chloritic alteration as well as potassic. There are pervasive chloritic alteration zones as well. In the rubble the fracture surfaces are coated in chlorite, calcite or hematite locally. This fault is predominatly rubble - 80% and 20% competent core.							
						LT	GY	PH	CHL	4I		
						DK	GN		POT	3I		
						LT	PK		HEM	1I		
						LT	WH					
						DK	PU					
						DK	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.37	296.71	19.34	GRD	CG	Variably altered coarse grained granodiorite. There are zones of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are also local zones with strong pervasive chloritic alteration. The third alteration we see is strong white clay alteration with weak to moderate potassic alteration.							
						LT	PK					
						LT	WH					
						DK	GY		POT	2I		
						LT	GY	PH	CLY	3I		
						DK	GN		CHL	3I		
						LT	BL					
296.71	297.31	0.60	VEN	FG	Quartz vein zone with sulpides occurring in the quartz veining. The main quartz vein is 296.82 - 296.96 m.Quartz is light grey to dark grey with brecciated white quartz grains occurring in the center of the vein. Pyrite is occurring in fine grained bands before the vein as well as some arsenopyrite that is also fine grained and occurring in bands. There are open space cavities occurring in this vein as well that range in size from 2 - 8 mm wide and 4 mm to 2 cm wide. Inside the cavities are some weak light grey re-crystallizaiton. In the main part of the vein there is blebby pyrite, sphaleriate and some galena. There are quartz stringers and veinlets occurring in this interval as well mostly with pyrite but also some sphalerite. At the lower contact we seom brecciation with a mix of dyke as well as quartz veining. There is also strong white clay alteration occurring as the wall rock.							
						LT	GY					
						DK	GY					
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
297.31	308.88	11.57	QFP	FG	QFP dyke that is light grey / green to darker grey / green as well as local zones of dark purple brown. Phenocrysts are clay altered light green to white as well there are glassy grey quartz phenocrysts. There is local quartz veining as well as silicified granodiorite with the quartz veining that is white in color with dark grey quartz infilling fractures. A fine grained xenolith is occurring in this interval as well. Zones of silicious granodiorite / quartz veining occurring at 305.90 - 306 m, 307.32 - 307.50 m, and 307.63 - 308.71 m. At 207.57 - 207.60 m there is a quartz vein with fine grained pyrite clustered together.							
						LT	GN	PO	CLY	3I	Py	0.1
						DK	BN					
						DK	PU					
						LT	GY		HEM	1I		
						MD	GY					
308.88	316.99	8.11	GRD	CG	Variably altered granodiorite but predominantly more fresh and less altered granodiorite with patchy chloritic alteration as well as moderate potassic alteration (light pink). At the upper contact we see a silicified granodiorite with some quartz veining that is light grey to white in color. At the upper part of the interval we see faulting and gouge as well (308.88 - 311.10 m). There is one large (14 cm wide) quartz / k-felspar phenocrystic dyke?/ vein? In this interval as well as a few smaller ones. One that is sub-parallel tca and is locall displaced due to fracturing. E.O.H.							
						DK	BL					
						LT	GY	PH	POT	3I		
						MD	GY		SIL	3I		
						LT	PK		CHL	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.35	0.35	0	0	0.00	0	--	--	--	
0.35	1.52	1.17	0.31	26	0.00	0	--	1H	6W	overburden/ soil
1.52	3.04	1.52	1.26	83	0.00	0	--	2H	5W	
3.04	4.57	1.53	1.42	93	0.57	37	--	4H	3W	
4.57	6.09	1.52	1.39	91	0.00	0	--	4H	4W	fractured fine grained granodiorite with small ~7cm wide light yellowish orange brown colloform quartz vein with minor vugs and limonite staining
6.09	7.62	1.53	1.43	93	0.10	7	--	4H	2W	
7.62	9.14	1.52	1.37	90	0.58	38	--	4H	3W	small rubble zone of highly weathered soil/ pebbles
9.14	10.67	1.53	1.51	99	1.03	67	--	5H	1W	
10.67	12.19	1.52	1.49	98	1.16	76	--	5H	1W	
12.19	13.72	1.53	1.45	95	1.16	76	--	5H	1W	
13.72	15.24	1.52	1.5	99	0.71	47	--	5H	1W	
15.24	16.76	1.52	1.52	100	0.96	63	--	5H	1W	
16.76	18.29	1.53	1.51	99	0.58	38	--	5H	1W	
18.29	19.81	1.52	1.52	100	0.21	14	--	5H	1W	
19.81	21.34	1.53	1.49	97	0.40	26	--	4H	3W	rubble/ orange brown weathered soil in section. Change from fine grained granodiorite to porphyritic qfp dyke with feldspar crystals altered to light green chlorite (?) rimmed with light grey clay around some grains further down section
21.34	22.86	1.52	1.37	90	1.03	68	--	4H	3W	no matching joint set
22.86	24.38	1.52	1.48	97	0.57	38	--	3H	4W	clay fault gouge section and heavily altered to clay qfp
24.38	25.91	1.53	1.51	99	1.06	69	--	1H	5W	entire section clay altered fault gouge/ breccia
25.91	27.34	1.43	0.68	48	0.57	40	--	1H	3W	clay, missing ~90cm of core in section
27.34	28.95	1.61	1.33	83	0.89	55	--	2H	1W	
28.95	30.48	1.53	1.16	76	0.49	32	--	2H	1W	
30.48	32.00	1.52	1.38	91	0.43	28	--	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
32.00	33.53	1.53	1.48	97	0.00	0	--	2H	1W	
33.53	35.05	1.52	1.38	91	0.00	0	--	2H	1W	
35.05	36.58	1.53	1.48	97	0.00	0	--	2H	1W	
36.58	38.10	1.52	1.47	97	0.00	0	--	2H	1W	
38.10	39.62	1.52	1.52	100	0.11	7	--	2H	1W	
39.62	41.15	1.53	1.52	99	0.53	35	--	3H	1W	
41.15	42.67	1.52	1.49	98	0.51	34	--	3H	1W	
42.67	44.20	1.53	1.46	95	0.12	8	--	4H	1W	
44.20	47.24	3.04	2.94	97	0.71	23	--	3H	2W	rubble zone
47.24	48.77	1.53	1.5	98	0.00	0	--	2H	3W	
48.77	51.82	3.05	3	98	0.74	24	--	2H	3W	
51.82	54.86	3.04	3.04	100	1.13	37	--	2H	3W	very crumbly/ fractured rubble
54.86	57.91	3.05	2.93	96	0.58	19	--	3H	2W	
57.91	60.96	3.05	3.04	100	0.15	5	--	2H	2W	
60.96	62.48	1.52	1.47	97	0.00	0	--	2H	2W	
62.48	65.53	3.05	2.82	92	0.00	0	--	2H	2W	
65.53	67.06	1.53	1.5	98	0.34	22	--	3H	2W	
67.06	70.10	3.04	2.97	98	0.13	4	--	3H	1W	small quartz vein with minor pyrite, sphalerite and galena blebs within
70.10	71.63	1.53	1.45	95	0.12	8	--	2H	2W	
71.63	74.68	3.05	2.97	97	2.14	70	--	4H	1W	light pink potassic (?) altered fine grained granodiorite
74.68	77.72	3.04	3	99	1.53	50	--	4H	1W	clay altered qfp. Minor blebs of galena and honey sphalerite along joint surface of one unmatched joint.
77.72	80.77	3.05	2.87	94	0.00	0	--	3H	1W	clay fault gouge and rubble
80.77	83.82	3.05	2.9	95	0.00	0	--	2H	1W	clay
83.82	86.87	3.05	2.97	97	0.80	26	--	3H	1W	no matching joint sets
86.87	89.92	3.05	2.92	96	0.93	30	--	3H	2W	joint surfaces are oxidized on both sides of fracture
89.92	92.96	3.04	2.89	95	1.50	49	--	3H	2W	
92.96	96.01	3.05	3.01	99	0.98	32	--	3H	3W	
96.01	99.06	3.05	3	98	0.34	11	--	3H	2W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
99.06	102.11	3.05	2.99	98	1.55	51	--	4H	1W	
102.11	105.16	3.05	3.01	99	0.79	26	--	3H	2W	rubble/ sandy mix of altered and broken down fine grained clay altered granodiorite
105.16	108.20	3.04	2.98	98	1.09	36	--	3H	2W	minor oxidation on fracture/ joint surfaces
108.20	111.25	3.05	2.97	97	1.45	48	--	4H	2W	
111.25	114.30	3.05	2.98	98	0.78	26	--	3H	2W	
114.30	117.35	3.05	2.95	97	0.72	24	--	3H	1W	no matching joint sets. Some minor oxidation in clay on some joint surfaces
117.35	120.40	3.05	3.01	99	0.28	9	--	3H	3W	oxidized fractured rubble
120.40	123.44	3.04	2.94	97	0.58	19	--	3H	2W	clay fault gouge and oxidized qfp.
123.44	126.49	3.05	2.95	97	0.31	10	--	3H	2W	
126.49	129.54	3.05	2.99	98	0.77	25	--	3H	1W	
129.54	132.59	3.05	2.93	96	0.64	21	--	2H	1W	clay fault gouge
132.59	135.64	3.05	2.9	95	1.06	35	--	3H	1W	clay fault gouge and coherent qfp
135.64	138.68	3.04	2.96	97	0.64	21	--	4H	1W	
138.68	141.73	3.05	3.04	100	1.25	41	--	4H	1W	oxidized fracture/ joint surfaces
141.73	144.78	3.05	3.03	99	1.24	41	--	4H	2W	
144.78	147.83	3.05	2.93	96	1.36	45	--	4H	1W	
147.83	150.88	3.05	3.04	100	2.04	67	--	5H	1W	
150.88	153.92	3.04	3.03	100	1.77	58	--	5H	1W	
153.92	156.97	3.05	3.02	99	0.96	31	--	3H	1W	
156.97	160.02	3.05	3	98	2.18	71	--	5H	1W	very siliceous possibly potassic altered foliated granodiorite (?)
160.02	163.07	3.05	2.98	98	1.62	53	--	5H	1W	very large cm size hornblende minerals
163.07	166.12	3.05	3.03	99	1.80	59	--	4H	1W	
166.12	169.16	3.04	3.03	100	1.24	41	--	3H	1W	
169.16	172.21	3.05	3.03	99	1.40	46	--	3H	1W	no matching joint sets
172.21	175.26	3.05	2.98	98	1.01	33	--	3H	1W	
175.26	178.31	3.05	3.01	99	1.46	48	--	3H	1W	
178.31	181.36	3.05	3.03	99	1.61	53	--	3H	1W	some clay-ish fault gouge contacts between units
181.36	184.40	3.04	2.98	98	1.11	37	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
184.40	187.45	3.05	2.99	98	0.52	17	--	3H	1W	~12cm wide clean white/ bull quartz vein with large cm size euhedral striated pyrite cubes within
187.45	190.50	3.05	2.92	96	0.51	17	--	3H	1W	fractured rubble zone, small vuggy dark grey quartz vein with very fine grained galena and pyrite
190.50	193.55	3.05	3.03	99	2.08	68	--	3H	1W	
193.55	196.60	3.05	2.97	97	1.55	51	--	3H	1W	thin veinlets of calcite cross cut main lithology and along which rock fractures very easily
196.60	199.64	3.04	3	99	0.67	22	--	3H	1W	small zone of clay fault gouge at contact with dike and light green grey medium grained granodiorite (?)
199.64	202.69	3.05	2.92	96	0.57	19	--	2H	1W	very thin (~2cm) quartz vein with pyrite, chalcopyrite, galena, arsenopyrite, sphalerite
202.69	204.22	1.53	1.49	97	0.32	21	--	3H	1W	
204.22	207.26	3.04	2.87	94	0.46	15	--	3H	1W	fractured rubble zone
207.26	208.79	1.53	1.42	93	0.00	0	--	2H	1W	
208.79	211.84	3.05	3.01	99	1.27	42	--	3H	1W	
211.84	214.88	3.04	3.03	100	0.89	29	--	3H	1W	
214.88	217.93	3.05	2.9	95	1.17	38	--	3H	1W	
217.93	220.98	3.05	2.93	96	1.34	44	--	3H	1W	clay fault zones at contacts and rubble
220.98	222.50	1.52	1.47	97	0.00	0	--	2H	1W	
222.50	225.55	3.05	3.03	99	1.32	43	--	3H	1W	calcite veinlets and pyrite on fracture/ joint surfaces
225.55	228.60	3.05	2.92	96	1.64	54	--	3H	1W	
228.60	231.65	3.05	2.97	97	1.66	54	--	5H	1W	very siliceous granodiorite (?)
231.65	234.70	3.05	2.94	96	0.85	28	--	3H	1W	clay fault gouge infill between joints with orientation of 50 degrees
234.70	237.74	3.04	2.97	98	1.14	38	--	3H	1W	clay altered granodiorite
237.74	240.79	3.05	2.98	98	1.26	41	--	3H	1W	
240.79	243.84	3.05	2.96	97	0.55	18	--	3H	1W	
243.84	246.89	3.05	2.97	97	0.28	9	--	3H	1W	clay altered rubble
246.89	249.94	3.05	3.01	99	0.51	17	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
249.94	252.98	3.04	2.95	97	0.70	23	--	3H	1W	small quartz vein with sulphide mineralization in clay altered fault gouge section. Vein of light pink rhodochrosite as well in section
252.98	256.03	3.05	3.03	99	1.28	42	--	3H	1W	
256.03	259.08	3.05	3.01	99	1.95	64	--	4H	1W	
259.08	262.13	3.05	3.01	99	1.38	45	--	3H	1W	
262.13	265.18	3.05	2.86	94	0.52	17	--	3H	1W	rubble zone
265.18	266.70	1.52	1.5	99	0.41	27	--	3H	1W	rhodochrosite and calcite veining within rubble
266.70	268.22	1.52	1.48	97	0.78	51	--	3H	1W	
268.22	269.75	1.53	1.48	97	0.10	7	--	3H	1W	
269.75	271.17	1.42	1.32	93	0.51	36	--	3H	1W	
271.17	272.80	1.63	1.46	90	0.00	0	--	2H	1W	
272.80	274.32	1.52	1.44	95	0.11	7	--	2H	1W	
274.32	275.84	1.52	1.41	93	0.00	0	--	2H	1W	rubble
275.84	277.37	1.53	1.42	93	0.00	0	--	2H	1W	clay altered, calcite coated dark green with some hematite staining fault gouge/ rubble
277.37	278.89	1.52	1.43	94	0.75	49	--	3H	1W	
278.89	280.42	1.53	1.34	88	0.52	34	--	3H	1W	
280.42	283.46	3.04	2.96	97	1.80	59	--	3H	1W	
283.46	286.51	3.05	2.96	97	1.54	50	--	3H	1W	heavily clay altered rubble zone
286.51	289.56	3.05	3.03	99	1.94	64	--	4H	1W	
289.56	292.61	3.05	2.95	97	1.89	62	--	4H	1W	
292.61	295.66	3.05	3.01	99	2.03	67	--	4H	1W	
295.66	298.70	3.04	3.03	100	1.81	60	--	3H	1W	quartz vein with sulphide mineralization on upper side of clay altered qfp dyke. Some clay gouge within dyke material as well
298.70	301.75	3.05	2.92	96	1.63	53	--	4H	1W	
301.75	304.80	3.05	2.95	97	1.52	50	--	3H	1W	
304.80	307.85	3.05	2.89	95	0.35	11	--	3H	1W	thin veins of rhodochorosite cutting grey green qfp dyke
307.85	309.37	1.52	1.44	95	0.43	28	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
309.37	312.42	3.05	2.87	94	0.49	16	--	2H	1W	clayish section and rhodochrosite vein
312.42	313.94	1.52	1.47	97	0.95	63	--	3H	1W	
313.94	316.99	3.05	2.95	97	1.03	34	--	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	17.05	OVB	
2	55.4	GRD	
3	40.66	GRD	
4	43.99	GRD	
5	0.751	GRD	
6	46.26	GRD	
7	40.38	GRD	
8	32.02	GRD	
9	43.17	GRD	
10	41.56	GRD	
11	43.27	GRD	
12	42.38	GRD	
13	0.431	GRD	colloform quartz vein
14	42.55	GRD	
15	40.36	GRD	
16	41.62	GRD	
17	40.98	GRD	
18	38.01	GRD	
19	56.79	GRD	
20	48.48	GRD	
21	0.47	QFP	slightly clay altered qfp with section of clay/ soil granodiorite above it
22	0.285	QFP	
23	0.29	QFP	
24	0.265	BXA	
25	0.501	BXA	
26	5.098	BXA	
27	0.278	BXA	

Depth (m)	Magnetic Susceptibility	Unit	Comments
28	0.217	BXA	
29	0.266	BXA	
30	0.384	BXA	
31	0.432	BXA	
32	0.426	FEL	
33	0.24	FEL	
34	0.256	BXA	
35	0.232	BXA	
36	0.37	BXA	
37	0.279	BXA	
38	0.014	BXA	
39	0.256	FEL	
40	0.632	FEL	
41	0.256	FEL	
41	0.256	QFP	
42	0.236	GRD	
43	1.823	GRD	
44	0.492	GRD	
45	0.943	GRD	
46	3.909	GRD	
47	1.852	GRD	
48	0.947	GRD	
49	0.681	GRD	
50	0.558	GRD	
51	0.426	GRD	
52	0.306	GRD	
53	0.981	GRD	
54	0.7	GRD	
55	0.59	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
56	0.802	GRD	
57	0.325	GRD	
58	0.713	GRD	
59	10.13	GRD	
60	15.49	GRD	
61	8.435	GRD	
62	28.16	GRD	
63	2.236	GRD	
64	20.12	GRD	
65	7.562	GRD	
66	0.448	GRD	
67	0.289	GRD	
68	0.514	GRD	
69	0.417	GRD	
70	0.358	GRD	
71	0.883	GRD	
72	0.775	GRD	
73	0.26	GRD	
74	0.382	GRD	
75	0.43	GRD	
76	0.312	QFP	
77	0.289	QFP	
78	0.232	FLT	
79	0.318	FLT	
80	0.203	FLT	
81	0.249	BXA	
82	0.234	BXA	
83	0.349	BXA	
84	0.289	BXA	
85	0.427	BXA	
86	0.236	QFP	
87	0.141	QFP	
88	0.218	QFP	
89	0.156	QFP	
90	0.589	FEL	
91	0.777	FEL	
92	0.439	FEL	
93	0.655	FEL	
94	2.019	FEL	
95	0.145	FEL	
96	0.403	FEL	
97	0.242	FEL	
98	0.227	FEL	
99	0.561	FEL	
100	1.658	FEL	
101	0.57	FEL	
102	0.977	FEL	
103	11.3	FEL	
104	0.516	FEL	
105	0.186	FEL	
106	0.055	FEL	
107	0.514	FEL	
108	0.235	FEL	
109	0.915	FEL	
110	22.84	FEL	
111	0.547	FEL	
112	2.667	FEL	
113	30.8	FEL	
114	0.43	FEL	
115	16.79	FEL	
116	27.27	FEL	
117	0.316	FEL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
118	0.211	FEL	
119	0.292	QFP	
120	0.181	QFP	
121	0.195	QFP	
122	0.29	QFP	
123	0.199	QFP	
124	0.178	QFP	
125	0.247	QFP	
126	0.237	QFP	
127	0.25	QFP	
128	0.236	QFP	
129	0.207	QFP	
130	0.145	QFP	
131	0.214	BXA	
132	0.201	BXA	
133	0.169	BXA	
134	0.31	QFP	
135	0.242	QFP	
136	0.289	QFP	
137	0.182	QFP	
138	0.218	QFP	
139	0.193	QFP	
140	0.196	QFP	
141	0.212	QFP	
142	0.317	QFP	
143	0.504	QFP	
144	0.234	QFP	
145	0.754	QFP	
146	0.272	GRD	
147	0.577	GRD	
148	2.977	GRD	
149	29.84	GRD	
150	0.463	GRD	
151	0.811	GRD	
152	0.42	GRD	
153	0.335	GRD	
154	0.646	GRD	
155	15.92	GRD	
156	21.69	GRD	
157	1.576	GRD	
158	74.24	GRD	
159	79.08	GRD	
160	76.35	GRD	
161	64.05	GRD	
162	0.789	GRD	
163	56.4	GRD	
164	1.184	GRD	
165	66.08	GRD	
166	0.255	SIL	
167	0.63	SIL	
168	2.787	GRD	
169	1.538	GRD	
170	62.93	GRD	
171	54.53	GRD	
172	0.689	GRD	
173	0.675	GRD	
174	3.306	GRD	
175	45.97	GRD	
176	4.777	GRD	
177	56.39	GRD	
178	68.04	GRD	
179	60.2	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
180	1.208	GRD	
181	0.28	GRD	
182	2.703	GRD	
183	90.78	GRD	
184	55.77	GRD	
185	1.384	VEN	
186	82.49	GRD	
187	95.65	GRD	
188	64.91	GRD	
189	0.87	GRD	
190	1.012	GRD	
191	0.265	GRD	
192	0.967	GRD	
193	81.55	GRD	
194	60.63	GRD	
195	51.39	GRD	
196	32.08	GRD	
197	0.458	GRD	
198	1.333	GRD	
199	0.795	GRD	
200	51.8	GRD	
201	12.87	GRD	
202	51.69	GRD	
203	0.891	GRD	
204	1.249	GRD	
205	59.5	GRD	
206	49.79	GRD	
207	84.67	GRD	
208	32.97	GRD	
209	62.66	GRD	
210	51.78	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
211	53.66	GRD	
212	15.26	GRD	
213	67.79	GRD	
214	9.151	GRD	
215	43.97	GRD	
216	1.001	GRD	
217	7.293	GRD	
217	7.293	GRD	
218	2.504	GRD	
219	61.42	GRD	
220	12.83	GRD	
221	68.81	GRD	
222	48.72	GRD	
223	61.22	GRD	
224	2.76	GRD	
225	0.889	GRD	
226	53.81	GRD	
227	0.665	GRD	
228	0.558	GRD	
229	1.883	GRD	
230	106.6	GRD	
231	105.2	GRD	
232	7.008	GRD	
233	0.579	GRD	
234	0.412	BXA	
235	1.598	GRD	
236	1.305	GRD	
237	45.49	GRD	
238	2.689	GRD	
239	66.48	GRD	
240	50.81	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
241	43.02	GRD	
242	0.649	GRD	
243	0.395	GRD	
244	2.347	GRD	
245	0.583	VEN	
246	4.562	GRD	
247	1.26	GRD	
248	0.518	GRD	
249	1.178	GRD	
250	0.581	GRD	
251	0.265	GRD	
252	0.66	GRD	
253	54.37	GRD	
254	0.815	GRD	
255	40.05	GRD	
256	47.46	GRD	
257	61.09	GRD	
258	49.06	GRD	
259	67.63	GRD	
260	49.07	GRD	
261	70.31	GRD	
262	65.92	GRD	
263	17.46	GRD	
264	51.16	GRD	
265	0.469	GRD	
266	0.508	GRD	
267	0.792	GRD	
268	38.39	GRD	
269	53.99	GRD	
270	60.79	GRD	
271	83.33	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
272	50.43	GRD	
273	64.33	GRD	
274	49.42	GRD	
275	27.96	GRD	
276	23.1	GRD	
277	69	GRD	
278	61.72	GRD	
279	44.26	GRD	
280	1.778	GRD	
281	66.13	GRD	
282	51.74	GRD	
283	57.63	GRD	
284	76.36	GRD	
285	69.07	GRD	
286	48.59	GRD	
287	69.73	GRD	
288	1.272	GRD	
289	1.315	GRD	
290	59.72	GRD	
291	138.5	GRD	
292	67.51	GRD	
293	54.89	GRD	
294	11.88	GRD	
295	53.63	GRD	
296	78.08	GRD	
297	0.97	VEN	
298	0.305	QFP	
299	0.328	QFP	
300	0.442	QFP	
301	0.235	QFP	
302	0.236	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
303	0.294	QFP	
304	0.367	QFP	
305	0.42	QFP	
306	0.491	QFP	
307	0.84	QFP	
308	0.985	QFP	
309	0.45	GRD	
310	0.411	GRD	
311	3.964	GRD	
312	60.09	GRD	
313	70.42	GRD	
314	69.34	GRD	
315	19.49	GRD	
316	47.04	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W595788	☐	20-044	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W595794	☐	20-044	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598358	☐	20-044	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598388	☐	20-046	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598394	☐	20-046	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598403	☐	20-046	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598417	☐	20-050	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598431	☐	20-050	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598444	☐	20-050	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700753	☐	20-036	High Grade		☑	☐	☐
11.30	12.80	1.50	GRD	1.27	85	W595781	☐	20-044	Low Grade		☐	☐	☐
12.80	13.30	0.50	GRD	0.49	98	W595782	☐	20-044	Low Grade		☐	☐	☐
13.30	14.80	1.50	GRD	1.37	91	W595783	☐	20-044	Low Grade		☐	☐	☐
54.95	56.45	1.50	GRD	1.46	97	W595784	☐	20-044	Low Grade		☐	☐	☐
56.45	56.95	0.50	GRD	0.43	86	W595785	☐	20-044	Low Grade		☐	☐	☐
56.95	58.45	1.50	GRD	1.42	95	W595786	☐	20-044	Low Grade		☐	☐	☐
64.75	66.25	1.50	GRD	1.08	72	W595787	☐	20-044	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
66.25	66.75	0.50	GRD	0.50	100	W595789	☐	20-044	Low Grade		☐	☐	☐
66.75	68.00	1.25	GRD	1.17	94	W595790	☐	20-044	Low Grade		☐	☐	☐
68.00	68.50	0.50	GRD	0.46	92	W595791	☐	20-044	Low Grade		☐	☐	☐
68.50	69.50	1.00	GRD	1.00	100	W595792	☐	20-044	Low Grade		☐	☐	☐
69.50	70.00	0.50	GRD	0.40	80	W595793	☐	20-044	Low Grade	Klaza2020-A	☐	☐	☐
70.00	71.50	1.50	GRD	1.45	97	W595795	☐	20-044	Low Grade		☐	☐	☐
75.10	76.40	1.30	QFP, GRD	1.23	95	W595796	☐	20-044	Low Grade		☐	☐	☐
76.40	76.90	0.50	QFP	0.50	100	W595797	☐	20-044	Low Grade		☐	☐	☐
76.90	78.40	1.50	QFP	1.35	90	W595798	☐	20-044	Low Grade		☐	☐	☐
83.15	84.65	1.50	BXA	1.49	99	W595799	☐	20-044	Low Grade		☐	☐	☐
84.65	85.15	0.50	BXA	0.50	100	W595800	☐	20-044	Low Grade		☐	☐	☐
84.65	85.15	0.50	BXA	0.50	100	W598351	☐	20-044	Low Grade		☐	☐	☑
85.15	86.65	1.50	QFP	1.46	97	W598352	☐	20-044	Low Grade		☐	☐	☐
94.95	96.00	1.05	FEL	1.05	100	W598353	☐	20-044	Low Grade		☐	☐	☐
96.00	96.50	0.50	FEL	0.50	100	W598354	☐	20-044	Low Grade		☐	☐	☐
96.50	97.00	0.50	FEL	0.42	84	W598355	☐	20-044	Low Grade		☐	☐	☐
97.00	97.50	0.50	FEL	0.49	98	W598356	☐	20-044	Low Grade		☐	☐	☐
97.50	98.00	0.50	FEL	0.46	92	W598357	☐	20-044	Low Grade		☐	☐	☐
98.00	98.50	0.50	FEL	0.44	88	W598359	☐	20-044	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
98.50	100.00	1.50	FEL	1.47	98	W598360	☐	20-044	Low Grade		☐	☐	☐
145.00	146.50	1.50	QFP	1.34	89	W598361	☐	20-044	Low Grade		☐	☐	☐
146.50	147.00	0.50	GRD	0.43	86	W598362	☐	20-044	Low Grade		☐	☐	☐
146.50	147.00	0.50	GRD	0.43	86	W598363	☐	20-044	Low Grade		☐	☑	☐
147.00	148.50	1.50	GRD	1.50	100	W598364	☐	20-044	Low Grade		☐	☐	☐
151.20	152.45	1.25	GRD	1.25	100	W598365	☐	20-044	Low Grade		☐	☐	☐
152.45	152.95	0.50	GRD	0.48	96	W598366	☐	20-044	Low Grade		☐	☐	☐
152.95	153.45	0.50	GRD	0.47	94	W598367	☐	20-044	Low Grade		☐	☐	☐
153.45	153.95	0.50	GRD	0.50	100	W598368	☐	20-044	Low Grade		☐	☐	☐
153.95	155.45	1.50	GRD	1.44	96	W598369	☐	20-044	Low Grade		☐	☐	☐
155.45	156.20	0.75	GRD	0.73	97	W598370	☐	20-044	Low Grade		☐	☐	☐
156.20	157.70	1.50	GRD	1.23	82	W598371	☐	20-046	Low Grade		☐	☐	☐
157.70	158.20	0.50	GRD	0.50	100	W598372	☐	20-046	Low Grade		☐	☐	☐
157.70	158.20	0.50	GRD	0.50	100	W598373	☐	20-046	Low Grade		☐	☑	☐
158.20	159.70	1.50	GRD	1.34	89	W598374	☐	20-046	Low Grade		☐	☐	☐
183.35	184.85	1.50	GRD	1.41	94	W598375	☐	20-046	Low Grade		☐	☐	☐
184.85	185.15	0.30	GRD	0.30	100	B700750	☐	20-036	High Grade		☐	☐	☐
185.15	186.65	1.50	GRD	1.28	85	W598376	☐	20-046	Low Grade		☐	☐	☐
186.65	187.85	1.20	GRD	1.15	96	W598377	☐	20-046	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
187.85	189.35	1.50	GRD	1.18	79	W598378	☐	20-046	Low Grade		☐	☐	☐
189.35	190.50	1.15	GRD	0.97	84	W598379	☐	20-046	Low Grade		☐	☐	☐
189.35	190.50	1.15	GRD	0.97	84	W598380	☐	20-046	Low Grade		☐	☐	☑
190.50	191.00	0.50	GRD	0.50	100	W598381	☐	20-046	Low Grade		☐	☐	☐
191.00	191.50	0.50	GRD	0.50	100	W598382	☐	20-046	Low Grade		☐	☐	☐
191.50	192.00	0.50	GRD	0.48	96	W598383	☐	20-046	Low Grade		☐	☐	☐
192.00	192.50	0.50	GRD	0.50	100	W598384	☐	20-046	Low Grade		☐	☐	☐
192.50	194.00	1.50	GRD	1.43	95	W598385	☐	20-046	Low Grade		☐	☐	☐
200.80	202.30	1.50	GRD	1.31	87	W598386	☐	20-046	Low Grade		☐	☐	☐
202.30	202.80	0.50	GRD	0.50	100	W598387	☐	20-046	Low Grade		☐	☐	☐
202.80	204.25	1.45	GRD	1.16	80	W598389	☐	20-046	Low Grade		☐	☐	☐
204.25	204.75	0.50	GRD	0.50	100	W598390	☐	20-046	Low Grade		☐	☐	☐
204.75	206.25	1.50	GRD	0.88	59	W598391	☐	20-046	Low Grade		☐	☐	☐
212.35	213.85	1.50	GRD	1.48	99	W598392	☐	20-046	Low Grade		☐	☐	☐
213.85	214.35	0.50	GRD	0.50	100	W598393	☐	20-046	Low Grade		☐	☐	☐
214.35	215.65	1.30	GRD	1.17	90	W598395	☐	20-046	Low Grade		☐	☐	☐
215.65	216.15	0.50	GRD	0.49	98	W598396	☐	20-046	Low Grade		☐	☐	☐
216.15	217.65	1.50	GRD	1.42	95	W598397	☐	20-046	Low Grade		☐	☐	☐
222.25	223.75	1.50	GRD	1.34	89	W598398	☐	20-046	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
223.75	224.25	0.50	GRD	0.49	98	W598399	☐	20-046	Low Grade		☐	☐	☐
224.25	225.75	1.50	GRD	1.38	92	W598400	☐	20-046	Low Grade		☐	☐	☐
225.75	226.50	0.75	GRD	0.66	88	W598401	☐	20-046	Low Grade		☐	☐	☐
226.50	227.00	0.50	GRD	0.45	90	W598402	☐	20-046	Low Grade		☐	☐	☐
227.00	227.70	0.70	GRD	0.67	96	W598404	☐	20-046	Low Grade		☐	☐	☐
227.70	228.20	0.50	GRD	0.50	100	W598405	☐	20-046	Low Grade		☐	☐	☐
228.20	228.70	0.50	GRD	0.49	98	W598406	☐	20-046	Low Grade		☐	☐	☐
228.70	230.20	1.50	GRD	1.47	98	W598407	☐	20-046	Low Grade		☐	☐	☐
230.20	231.70	1.50	GRD	1.39	93	W598408	☐	20-046	Low Grade		☐	☐	☐
235.90	237.40	1.50	GRD	1.39	93	W598409	☐	20-046	Low Grade		☐	☐	☐
237.40	237.90	0.50	GRD	0.49	98	W598410	☐	20-046	Low Grade		☐	☐	☐
237.90	239.00	1.10	GRD	1.08	98	W598411	☐	20-050	Low Grade		☐	☐	☐
239.00	240.40	1.40	GRD	1.34	96	W598412	☐	20-050	Low Grade		☐	☐	☐
240.40	241.15	0.75	GRD	0.73	97	W598413	☐	20-050	Low Grade		☐	☐	☐
241.15	241.65	0.50	GRD	0.50	100	W598414	☐	20-050	Low Grade		☐	☐	☐
241.65	243.15	1.50	GRD	1.42	95	W598415	☐	20-050	Low Grade		☐	☐	☐
243.15	244.30	1.15	GRD	1.08	94	W598416	☐	20-050	Low Grade		☐	☐	☐
244.30	244.60	0.30	GRD	0.30	100	B700751	☐	20-036	High Grade		☐	☐	☐
244.60	246.10	1.50	GRD	1.26	84	W598418	☐	20-050	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
249.60	251.10	1.50	GRD	1.23	82	W598419	☐	20-050	Low Grade		☐	☐	☐
251.10	251.60	0.50	GRD	0.47	94	W598420	☐	20-050	Low Grade		☐	☐	☐
251.60	253.10	1.50	GRD	1.21	81	W598421	☐	20-050	Low Grade		☐	☐	☐
253.10	254.55	1.45	GRD	1.34	92	W598422	☐	20-050	Low Grade		☐	☐	☐
254.55	255.05	0.50	GRD	0.50	100	W598423	☐	20-050	Low Grade		☐	☐	☐
254.55	255.05	0.50	GRD	0.50	100	W598424	☐	20-050	Low Grade		☐	☐	☑
255.05	256.55	1.50	GRD	1.40	93	W598425	☐	20-050	Low Grade		☐	☐	☐
286.25	287.75	1.50	GRD	1.50	100	W598426	☐	20-050	Low Grade		☐	☐	☐
287.75	288.25	0.50	GRD	0.50	100	W598427	☐	20-050	Low Grade		☐	☐	☐
288.25	288.95	0.70	GRD	0.67	96	W598428	☐	20-050	Low Grade		☐	☐	☐
288.95	289.45	0.50	GRD	0.49	98	W598429	☐	20-050	Low Grade		☐	☐	☐
289.45	290.95	1.50	GRD	1.49	99	W598430	☐	20-050	Low Grade		☐	☐	☐
290.95	292.00	1.05	GRD	1.02	97	W598432	☐	20-050	Low Grade		☐	☐	☐
292.00	292.65	0.65	GRD	0.57	88	W598433	☐	20-050	Low Grade		☐	☐	☐
292.65	294.15	1.50	GRD	1.48	99	W598434	☐	20-050	Low Grade		☐	☐	☐
294.15	294.65	0.50	GRD	0.49	98	W598435	☐	20-050	Low Grade		☐	☐	☐
294.65	295.45	0.80	GRD	0.80	100	W598436	☐	20-050	Low Grade		☐	☐	☐
295.45	296.25	0.80	GRD	0.79	99	W598437	☐	20-050	Low Grade		☐	☐	☐
296.25	296.75	0.50	GRD	0.47	94	W598438	☐	20-050	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
296.25	296.75	0.50	GRD	0.47	94	W598439	☐	20-050	Low Grade		☐	☑	☐
296.75	297.05	0.30	VEN	0.30	100	B700752	☐	20-036	High Grade		☐	☐	☐
297.05	297.55	0.50	VEN	0.50	100	W598440	☐	20-050	Low Grade		☐	☐	☐
297.55	299.05	1.50	QFP	1.50	100	W598441	☐	20-050	Low Grade		☐	☐	☐
305.90	307.40	1.50	QFP	1.42	95	W598442	☐	20-050	Low Grade		☐	☐	☐
307.40	307.90	0.50	QFP	0.50	100	W598443	☐	20-050	Low Grade		☐	☐	☐
307.90	309.40	1.50	QFP	1.32	88	W598445	☐	20-050	Low Grade		☐	☐	☐
309.40	311.10	1.70	GRD	1.24	73	W598446	☐	20-050	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700753	0.00	0.00	0.01	30	☐	☐	☑	☐	Blank
20-044	W595788	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-044	W595794	0.00	0.00	0.65	190	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-044	W598358	0.00	0.00	2.85	320	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-046	W598388	0.00	0.00	0.01	50	☐	☐	☑	☐	Blank
20-046	W598394	0.00	0.00	0.65	210	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-046	W598403	0.00	0.00	2.94	410	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-050	W598417	0.00	0.00	0.70	250	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-050	W598431	0.00	0.00	3.00	270	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-050	W598444	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-044	W595781	11.30	12.80	0.02	1140	☐	☐	☐	☐	
20-044	W595782	12.80	13.30	0.07	1840	☐	☐	☐	☐	
20-044	W595783	13.30	14.80	0.01	1340	☐	☐	☐	☐	
20-044	W595784	54.95	56.45	0.00	2210	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-044	W595785	56.45	56.95	0.02	2350	☐	☐	☐	☐	
20-044	W595786	56.95	58.45	0.01	1800	☐	☐	☐	☐	
20-044	W595787	64.75	66.25	0.00	1650	☐	☐	☐	☐	
20-044	W595789	66.25	66.75	0.09	520	☐	☐	☐	☐	
20-044	W595790	66.75	68.00	0.03	580	☐	☐	☐	☐	
20-044	W595791	68.00	68.50	0.11	510	☐	☐	☐	☐	
20-044	W595792	68.50	69.50	0.01	1350	☐	☐	☐	☐	
20-044	W595793	69.50	70.00	0.09	680	☐	☐	☐	☐	Klaza2020-A
20-044	W595795	70.00	71.50	0.01	1510	☐	☐	☐	☐	
20-044	W595796	75.10	76.40	0.00	1590	☐	☐	☐	☐	
20-044	W595797	76.40	76.90	0.03	3830	☐	☐	☐	☐	
20-044	W595798	76.90	78.40	0.00	1090	☐	☐	☐	☐	
20-044	W595799	83.15	84.65	0.00	2050	☐	☐	☐	☐	
20-044	W595800	84.65	85.15	0.00	960	☐	☐	☐	☐	
20-044	W598351	84.65	85.15	0.01	930	☐	☑	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-044	W598352	85.15	86.65	0.00	3890	☐	☐	☐	☐	
20-044	W598353	94.95	96.00	0.20	800	☐	☐	☐	☐	
20-044	W598354	96.00	96.50	0.33	600	☐	☐	☐	☐	
20-044	W598355	96.50	97.00	0.09	1620	☐	☐	☐	☐	
20-044	W598356	97.00	97.50	0.04	1230	☐	☐	☐	☐	
20-044	W598357	97.50	98.00	0.14	630	☐	☐	☐	☐	
20-044	W598359	98.00	98.50	0.07	310	☐	☐	☐	☐	
20-044	W598360	98.50	100.00	0.01	2570	☐	☐	☐	☐	
20-044	W598361	145.00	146.50	0.01	770	☐	☐	☐	☐	
20-044	W598362	146.50	147.00	0.07	680	☐	☐	☐	☐	
20-044	W598363	146.50	147.00	0.06	650	☑	☐	☐	☐	1/4 duplicate
20-044	W598364	147.00	148.50	0.02	1690	☐	☐	☐	☐	
20-044	W598365	151.20	152.45	0.01	1140	☐	☐	☐	☐	
20-044	W598366	152.45	152.95	0.01	880	☐	☐	☐	☐	
20-044	W598367	152.95	153.45	0.01	930	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-044	W598368	153.45	153.95	0.21	510	☐	☐	☐	☐	
20-044	W598369	153.95	155.45	0.03	1300	☐	☐	☐	☐	
20-044	W598370	155.45	156.20	0.01	2000	☐	☐	☐	☐	
20-046	W598371	156.20	157.70	0.30	1870	☐	☐	☐	☐	
20-046	W598372	157.70	158.20	0.01	2020	☐	☐	☐	☐	
20-046	W598373	157.70	158.20	0.01	1780	☑	☐	☐	☐	1/4 duplicate
20-046	W598374	158.20	159.70	0.02	2330	☐	☐	☐	☐	
20-046	W598375	183.35	184.85	0.01	2340	☐	☐	☐	☐	
20-036	B700750	184.85	185.15	0.11	30	☐	☐	☐	☐	
20-046	W598376	185.15	186.65	0.01	2030	☐	☐	☐	☐	
20-046	W598377	186.65	187.85	0.02	1600	☐	☐	☐	☐	
20-046	W598378	187.85	189.35	0.09	1160	☐	☐	☐	☐	
20-046	W598379	189.35	190.50	0.01	690	☐	☐	☐	☐	
20-046	W598380	189.35	190.50	0.01	690	☐	☑	☐	☐	Coarse Reject dupliate
20-046	W598381	190.50	191.00	0.10	290	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-046	W598382	191.00	191.50	0.39	230	☐	☐	☐	☐	
20-046	W598383	191.50	192.00	0.02	1690	☐	☐	☐	☐	
20-046	W598384	192.00	192.50	0.02	1670	☐	☐	☐	☐	
20-046	W598385	192.50	194.00	0.01	1830	☐	☐	☐	☐	
20-046	W598386	200.80	202.30	0.01	2250	☐	☐	☐	☐	
20-046	W598387	202.30	202.80	0.94	1620	☐	☐	☐	☐	
20-046	W598389	202.80	204.25	0.07	1870	☐	☐	☐	☐	
20-046	W598390	204.25	204.75	0.13	2110	☐	☐	☐	☐	
20-046	W598391	204.75	206.25	0.04	1770	☐	☐	☐	☐	
20-046	W598392	212.35	213.85	0.02	2140	☐	☐	☐	☐	
20-046	W598393	213.85	214.35	0.09	2500	☐	☐	☐	☐	
20-046	W598395	214.35	215.65	0.02	2150	☐	☐	☐	☐	
20-046	W598396	215.65	216.15	0.08	1920	☐	☐	☐	☐	
20-046	W598397	216.15	217.65	0.08	2190	☐	☐	☐	☐	
20-046	W598398	222.25	223.75	0.02	1980	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-046	W598399	223.75	224.25	0.01	1840	☐	☐	☐	☐	
20-046	W598400	224.25	225.75	0.01	2530	☐	☐	☐	☐	
20-046	W598401	225.75	226.50	0.03	1970	☐	☐	☐	☐	
20-046	W598402	226.50	227.00	0.49	530	☐	☐	☐	☐	
20-046	W598404	227.00	227.70	0.06	1910	☐	☐	☐	☐	
20-046	W598405	227.70	228.20	0.74	1490	☐	☐	☐	☐	
20-046	W598406	228.20	228.70	0.50	2010	☐	☐	☐	☐	
20-046	W598407	228.70	230.20	0.11	2190	☐	☐	☐	☐	
20-046	W598408	230.20	231.70	0.02	550	☐	☐	☐	☐	
20-046	W598409	235.90	237.40	0.01	1930	☐	☐	☐	☐	
20-046	W598410	237.40	237.90	0.01	1600	☐	☐	☐	☐	
20-050	W598411	237.90	239.00	0.01	2170	☐	☐	☐	☐	
20-050	W598412	239.00	240.40	0.01	2360	☐	☐	☐	☐	
20-050	W598413	240.40	241.15	0.01	2550	☐	☐	☐	☐	
20-050	W598414	241.15	241.65	0.08	1350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-050	W598415	241.65	243.15	0.03	1880	☐	☐	☐	☐	
20-050	W598416	243.15	244.30	0.02	1910	☐	☐	☐	☐	
20-036	B700751	244.30	244.60	1.28	270	☐	☐	☐	☐	
20-050	W598418	244.60	246.10	0.01	1660	☐	☐	☐	☐	
20-050	W598419	249.60	251.10	0.01	430	☐	☐	☐	☐	
20-050	W598420	251.10	251.60	0.37	290	☐	☐	☐	☐	
20-050	W598421	251.60	253.10	0.01	1220	☐	☐	☐	☐	
20-050	W598422	253.10	254.55	0.02	1820	☐	☐	☐	☐	
20-050	W598423	254.55	255.05	0.06	1950	☐	☐	☐	☐	
20-050	W598424	254.55	255.05	0.09	2000	☐	☑	☐	☐	Coarse reject duplicate.
20-050	W598425	255.05	256.55	0.01	1620	☐	☐	☐	☐	
20-050	W598426	286.25	287.75	0.01	1820	☐	☐	☐	☐	
20-050	W598427	287.75	288.25	0.02	1230	☐	☐	☐	☐	
20-050	W598428	288.25	288.95	0.01	1810	☐	☐	☐	☐	
20-050	W598429	288.95	289.45	0.09	1610	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-050	W598430	289.45	290.95	0.01	1880	☐	☐	☐	☐	
20-050	W598432	290.95	292.00	0.01	1790	☐	☐	☐	☐	
20-050	W598433	292.00	292.65	0.00	1880	☐	☐	☐	☐	
20-050	W598434	292.65	294.15	0.01	2000	☐	☐	☐	☐	
20-050	W598435	294.15	294.65	0.02	1530	☐	☐	☐	☐	
20-050	W598436	294.65	295.45	0.01	1750	☐	☐	☐	☐	
20-050	W598437	295.45	296.25	0.01	1770	☐	☐	☐	☐	
20-050	W598438	296.25	296.75	0.06	480	☐	☐	☐	☐	
20-050	W598439	296.25	296.75	0.06	310	☑	☐	☐	☐	1/4 duplicate
20-036	B700752	296.75	297.05	9.40	110	☐	☐	☐	☐	
20-050	W598440	297.05	297.55	0.19	920	☐	☐	☐	☐	
20-050	W598441	297.55	299.05	0.01	840	☐	☐	☐	☐	
20-050	W598442	305.90	307.40	0.03	1280	☐	☐	☐	☐	
20-050	W598443	307.40	307.90	0.66	400	☐	☐	☐	☐	
20-050	W598445	307.90	309.40	0.02	1970	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-050	W598446	309.40	311.10	0.12	590	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
5.15	5.19	VN	37	75	NUL	1	Quartz vein that is milky white with light grey quartz coming in along fracture surfaces. Limonite is coming in along fracture surfaces as well.			
12.99	13.03	VN	37	90	NUL	1	Milky white and grey quartz with pervasive limonite alteration and some pyrite occurring in the vein.			
								Py	0.3	BL
20.90	23.95	DY	37	-	NUL	1	QFP dyke			
23.95	31.02	BX	34	40	NUL	1	Brecciated qfp dyke (same as above).			
31.02	33.53	DY	37	-	NUL	1	Porphyritic dyke with feldspar laths.			
33.53	38.22	DY	37	-	NUL	1	QFP dyke. This dyke is rubbled and broken as well as locally competent.			
38.22	41.00	DY	37	50	NUL	1	Porphyritic dyke with feldspar laths.			
41.00	41.45	DY	37	60	NUL	1	QFP dyke that is highly altered.			
45.92	47.98	FT	42	-	NUL	1	Small fault zone with rubble and some minor gouge and competent core. Rubble - 80%, Competent core - 15% and Gouge - 5%.			
51.02	51.57	FT	42	70	NUL	1	Small fault zone with rubble and gouge with minor competent core. Rubble - 55%, Gouge - 40% and Competent core - 5%.			
53.17	53.43	VN	37	15	NUL	1	1 cm wide quartz vein that is milky white to cherty grey quartz.			
54.00	55.06	FT	42	-	NUL	1	Small fault zone with rubble and gouge and minor competent core. Rubble - 35%, Competnet core - 25% and Gouge - 60%.			
62.10	62.31	VN	37	0	NUL	1	Sub parallel quartz vein (possibly and extension of previous vein but can't tell. Vein is milky white with patchy moderate carbonate alteration and blebby pyrite along the vein selvage.			
								Py	0.5	BL
64.49	66.16	FT	42	-	NUL	1	Small fault zone. Rubble - 85%, Competent core - 15%.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
66.33	66.35	VN	37	20	NUL	1	Shallowly dipping quartz vein with mineralization. Light grey quartz with strong carbonate alteration. There is blebby pyrite as well as galena in this vein.			
								Gn	0.1	BL
								Py	0.5	BL
69.75	69.93	VN	37	30	NUL	1	Quartz sulphide vein. Vein is 1.5 cm wide. Milky white quartz with white patchy carbonate alteration. Blebby pyrite, sphalerite and galena.			
								Py	0.5	BL
								Gn	0.1	BL
								Sp	0.5	BL
75.10	77.40	DY	37	-	NUL	1	QFP dyke			
77.40	80.02	FT	42	-	NUL	1	Fault inside QFP dyke. Predominantly rubble - 70%.			
80.02	85.12	BX	34	-	NUL	1	Brecciated QFP dyke.			
84.64	85.11	GO	34	-	NUL	1	Large section of clay gouge.			
85.11	89.31	DY	37	-	NUL	1	QFP dyke.			
89.31	118.18	DY	37	-	NUL	1	Possible granitic dyke? Or granitic intrustion with varying types of alteration. Granite is porphyritic with quartz and clay phenocrysts depending on alteration zone.			
94.50	97.80	SH	81	5	NUL	1	Shear zone that has quartz and pyrite infilling along fractures locally.			
								Py	1	DI
98.25	98.28	GO	34	75	NUL	1	Small gouge zone with pyrite mixed in with the gouge.			
								Py	1.5	DI
118.18	130.45	DY	37	-	NUL	1	QFP dyke			
118.47	118.67	BX	34	-	NUL	1	Lithified breccia zone a bit after the start of the qfp dyke with large clasts floating a fine grained matrix.			
118.86	119.67	SH	81	0	NUL	1	Shear going sub-parallel tca.			
130.45	133.09	BX	34	70	NUL	1	Brecciated qfp dyke.			
133.09	145.40	DY	37	-	NUL	1	QFP dyke			
145.40	145.50	GO	34	60	NUL	1	Small gouge zone after dyke.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
146.74	146.79	VN	37	40	NUL	1	1 cm wide quartz / sulphide vein. The vein is truncated by a fracture? Light grey quartz with blebby pyrite and sphalerite.			
								Py	1	BL
								Sp	1	BL
150.07	150.07	VT	37	50	NUL	1	0.5 cm wide quartz sulphide vein. White quartz with blebby pyrite			
								Py	0.5	BL
152.73	152.86	ST		25	NUL	1	Quartz / sulphide stringer with white quartz and blebby pyrite.			
								Py	0.5	BL
153.66	153.74	VN	37	80	NUL	1	Quartz / sulphide vein. Light to dark grey quartz with white. Blebby pyrite and spalerite. The vein is fractured up.			
								Py	3	BL
								Sp	1.5	BL
165.83	167.81	DY	37	80	NUL	1	Apalite dyke? Fine grained with local white phenocrysts that have been clay altered. Hematite alteration locally.			
168.95	169.10	DY	37	70	NUL	1	Apalite dyke? Fine grained and blebby pyrite.			
								Py	0.1	BL
175.10	175.15	DY	37	70	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
175.80	175.85	DY	37	70	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
177.48	177.54	DY	37	70	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
178.31	178.35	DY	37	90	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
180.35	180.64	BX	34	70	NUL	1	Small breccia zone			
182.47	182.52	BX	34	50	NUL	1	Small brecia and gouge zone.			
184.97	185.09	VN	37	70	NUL	1	Quartz sulpide vein. Milky white quartz with massive pyrite. Pyrite is fresh and very coarse grained. There is a silicious alteration halo around this vein as well we have some blebby pyrite in stringers around the vein.			
								Py	10	BL
189.15	189.19	GO	34	70	NUL	1	Local gouge zone with pyrite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.1	BL
190.63	191.19	VN	37	65	NUL	10	Zone of quartz veining 10+ from stringers to veins. Whtie to dark grey cherty quartz veining with local pyrite blebs.			
								Py	0.5	BL
199.00	199.04	GO	34	60	NUL	1	Small gouge zone.			
200.43	202.32	FT	42	40	NUL	1	Fault zone that is predominatly rubble .			
202.53	202.57	VN	37	80	NUL	1	White to light grey to dark grey quartz vein with sulphides in the middle of the vein. Blebby pyrite and galena.			
								Py	1	BL
								Sp	0.5	BL
204.50	204.50	ST		75	NUL	1	White quartz vein with blebby pyrite and sphalerite.			
								Py	0.5	BL
								Sp	0.5	BL
204.83	209.64	FT	42	40	NUL	1	Fault zone that is predominantly rubble.			
211.38	211.50	DY	37	60	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
217.00	208.62	FT	42	40	NUL	1	Fault zone that is predominantly rubble with some minor gouge and competent core.			
221.18	22.05	FT	42	-	NUL	1	Fault with rubble and chips with some minor gouge.			
223.31	223.66	SH	81	3	NUL	1	Small shear that is running sub parallel tca.			
226.67	226.67	ST		80	NUL	1	Small quartz/ sulphide stringer before large quartz vein. 0.5 m wide with white quartz and blebby pyrite and sphalerite.			
								Py	0.5	BL
								Sp	0.5	BL
226.70	226.74	VN	37	80	NUL	1	Quartz / sulphide vein. White to light grey to dark grey quartz with pyrite and sphalerite that is blebby.			
								Sp	1	BL
								Py	1	BL
228.42	228.45	VN	37	75	NUL	1	Quartz / sulphide vein. White to light grey to dark grey quartz with blebby pyrite and galena.			
								Py	0.5	BL
								Gn	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
233.62	234.65	BX	34	40	NUL	1	Small weak breccia zone			
244.40	244.54	VN	37	80	NUL	1	Quartz / sulphide vein. With light to dark grey (nearly black) locally as well as white. Vein is locally brecciated with grains of quartz floating in a quartz matrix. This vein has fine grained pyrite and arsenopyrite that is locally clustered together.			
								Py	1	BL
								As	0.5	BL
251.28	251.32	VN	37	90	NUL	1	Quartz / sulphide vein. Quartz is light grey to dark grey with white. Blebby fine grained pyrite that is clustered together as well as some minor blebby galena.			
								Py	5	BL
								Gn	0.1	BL
251.44	251.50	DY	37	80	NUL	1	Quartz and k feldspar phenocrystic dyke or vein? With light green clay alteration.			
254.76	254.80	VN	37	80	NUL	1	Quartz/ sulphide vein with white and light grey quartz with fine grained pyrite along the selvage as well as inside the vein. As well we see blebby pyrite.			
								Sp	0.1	BL
								Py	1.5	BL
261.93	264.35	FT	42	35	NUL	1	Fault zone in altered granodiorite. The granodiorite is pervasively chloritic altered at the first half of the interval and then grading into a less altered granodiorte. There is weak to moderate potassic alteration occurring in the lesser altered granodiorite. This fault is predominantly rubble - 70% and competent core - 30%.			
271.63	277.37	FT	42	75	NUL	1	Fault zone in variably altered granodiorite. There are large zones of less altered granodiorite with blebby chloritic alteration as well as potassic. There are pervasive chloritic alteration zones as well. In the rubble the fracture surfaces are coated in chlorite, calcite or hematite locally. This fault is predominatly rubble - 80% and 20% competent core.			
283.30	283.32	DY	37	70	NUL	1	Apalite dyke?			
284.06	284.07	DY	37	70	NUL	1	Apalite dyke?			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
284.12	284.20	DY	37	60	NUL	1	Apalite dyke?			
284.57	284.58	DY	37	70	NUL	1	Apalite dyke?			
285.37	285.80	FT	42	40	NUL	1	Rubbled section of core.			
289.12	289.13	VT	37	70	NUL	1	Quartz vein/ sulphide vein. White to dark grey (near black) quartz. Fine grained clustered together arsenopyrite. We have blebby sphalerite and pyrite.			
								As	0.3	BL
								Py	1.5	BL
								Sp	1	BL
291.12	291.13	DY	37	80	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
291.58	291.64	DY	37	80	NUL	2	Two Quartz and k feldspar phenocrystic dyke or vein?			
294.67	294.72	DY	37	25	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
295.51	295.52	DY	37	55	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
295.90	295.96	DY	37	80	NUL	2	Two Quartz and k feldspar phenocrystic dyke or vein?			
296.71	297.31	VN	37	70	NUL	1	Quartz vein zone with sulpides occurring in the quartz veining. The main quartz vein is 296.82 - 296.96 m.Quartz is light grey to dark grey with brecciated white quartz grains occurring in the center of the vein. Pyrite is occurring in fine grained bands before the vein as well as some arsenopyrite that is also fine grained and occurring in bands. There are open space cavities occurring in this vein as well that range in size from 2 - 8 mm wide and 4 mm to 2 cm wide. Inside the cavities are some weak light grey re-crystallizaiton. In the main part of the vein there is blebby pyrite, sphaleriate and some galena. There are quartz stringers and veinlets occurring in this interval as well mostly with pyrite but also some sphalerite. At the lower contact we seom brecciation with a mix of dyke as well as quartz veining. There is also strong white clay alteration occurring as the wall rock.			
								Py	8	BL
								Sp	3	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	0.1	BL
								As	1	BL
297.16	297.31	BX	34	75	NUL	1	Breccia zone in the quartz veining as well as a bit of dyke.			
297.31	308.88	DY	37	70	NUL	1	QFP dyke			
307.63	307.66	VN	37	90	NUL	1	Quartz vein - light grey quartz with blebby pyrite.			
								Py	3	BL
309.56	310.90	FT	42	60	NUL	1	Small fault zone with quartz veining as well as local gouge zones up to 24 cm wide.			
313.49	313.63	DY	37	70	NUL	1	Quartz and k feldspar phenocrystic dyke or vein?			
315.00	315.55	DY	37	10	NUL	3	3 different Quartz and k feldspar phenocrystic dyke or vein? One that is running sub parallel tca that is locally displaced as well as one 1 cm one at the end of this interval.			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384746	6888152	1268	281.94

ZONE: Exploration

SECTION:

HOLE: KL -20-483

CLAIM: YA86343

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 21.34m, Out

Drilling Dates: Sep 23 - Sep 27, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.3	1.3	CAS
1.3	6.8	5.5	OVB
6.8	12.9	6.1	GRD
12.9	56.5	43.6	QFP
56.5	58.5	2	GRD
58.5	86	27.5	GRD
86	94	8	GRD
94	100	6	GRD
100	105	5	FLR
105	107.3	2.3	GRD
107.3	114.7	7.4	GRD
114.7	125.27	10.57	GRD
125.27	127.56	2.29	GRD
127.56	130.3	2.74	GRD
130.3	131.65	1.35	FLR
131.65	142.1	10.45	GRD

SAMPLES	
Numbers:	b700745 to b700749, W596629 to W596855
Total:	232
Batch:	036, 042, 043, 045, 047, 048, 049
Certificates:	WH20226272, WH20226276, WH20226278, WH20226286, WH20226288, WH20226294, WH20238418

COMMENTS
Handheld GPS accuracy of 1.8m

142.1	142.54	0.44	GRD
142.54	148	5.46	GRD
148	148.85	0.85	GRD
148.85	155.9	7.05	GRD
155.9	156.05	0.15	BXA
156.05	156.69	0.64	QFP
156.69	157.25	0.56	GRD
157.25	157.38	0.13	BXA
157.38	183	25.62	GRD
183	215.05	32.05	GRD
215.05	227.8	12.75	GRD
227.8	228.5	0.7	GRD
228.5	236.6	8.1	GRD
236.6	245	8.4	GRD
245	252.4	7.4	GRD
252.4	258.8	6.4	GRD
258.8	262.25	3.45	GRD
262.25	281.94	19.69	GRD

Box Log

KL -20-483

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.47	4.6
2	4.6	7.6
3	7.6	10.48
4	10.48	13.72
5	13.72	15.24
6	15.24	19.17
7	19.17	22.6
8	22.6	26.98
9	26.98	31.05
10	31.05	35.42
11	35.42	39.29
12	39.29	43.3
13	43.3	47.36
14	47.36	51.43
15	51.43	55.67
16	55.67	58.59
17	58.59	62.76
18	62.76	66.6
19	66.6	70.8
20	70.8	74
21	74	78.1
22	78.1	81.67
23	81.67	85.1
24	85.1	88.9
25	88.9	91.66
26	91.66	95.6
27	95.6	99.37
28	99.37	105.9
29	105.9	109
30	109	112.6
31	112.6	116.67
32	116.67	120.19
33	120.19	123.66
34	123.66	127.6
35	127.6	131.5
36	131.5	134.25
37	134.25	138.06
38	138.06	142.37
39	142.37	146.48
40	146.48	150.27
41	150.27	153.88
42	153.88	158.12
43	158.12	162.35
44	162.35	166.82
45	166.82	170.82
46	170.82	174.98
47	174.98	179.28
48	179.28	183.43
49	183.43	187.61
50	187.61	191.56
51	191.56	195.68
52	195.68	199.87
53	199.87	203.99
54	203.99	208.17
55	208.17	212.36
56	212.36	216.53
57	216.53	220.69
58	220.69	225.02
59	225.02	229.26
60	229.26	233.46
61	233.46	237.14
62	237.14	240.65
63	240.65	244.2
64	244.2	248.31
65	248.31	252.41
66	252.41	256.71
67	256.71	260.84
68	260.84	265.1
69	265.1	269.12
70	269.12	273.45
71	273.45	277.44
72	277.44	281.73
73	281.73	281.94

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-483									
	13	13.9	NTW	QFP	895.2	554.6	2.28	2.6	v.f.g. py. on fx.
	48.6	15	NTW	QFP	1020.3	628.8	2.41	2.6	v.f.g. py. on fx.
	66	16.9	NTW	GRD	1209.4	774.5	2.53	2.8	
	121.92	16.5	NTW	GRD	1071.6	672.1	2.3	2.7	fine grained grd with trace disseminated py, weakly silica altered, patchy strained alteration.
	130.08	8	NTW	GRD	787.9	554	3.48	3.4	quartz vein with approximately 25% sulphides
	130.1	10	NTW	GRD	788	553.9	2.79	3.4	Py Cpy Bn vein, ~30% sulphides in silicified med grained grd
	148.53	11.5	NTW	GRD	773.9	512.2	2.38	3.0	quartz vein with 4-5% sulphides (py and cpy)
	195.34	13.5	NTW	GRD	764.8	481.9	2	2.7	silicified granodiorite with hematite staining and disseminated pyrite throughout
	246.18	22.25	NTW	GRD	1422.5	954.8	2.26	3.0	vein broken into 2 pieces, chalcopyrite and pyrite fills approximately 95% of vein
	249.76	18	NTW	GRD	1264.5	842.8	2.48	3.0	quartz vein ~4.5cm wide with about 65-70% sulphides within
	259.78	15.2	NTW	GRD	1002.8	671.5	2.33	3.0	very vuggy brecciated quartz vein with some calcite infill. Euhedral quartz crystals in vugs and some pyrite, galena and sphalerite. Multiple stages of different vein generations in this small section
	280.61	19.85	NTW	GRD	1305.4	825.1	2.33	2.7	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	CAS	--	casing							
1.30	6.80	5.50	OVB	--	overburden							
6.80	10.67	3.87	GRD	MG	Medium grained GRD, pervasive weak clay alteration, limonite and FeOx on fracture surfaces, broken. Weak propylitic alteration, mafic minerals altered moderately to chlorite with patchy trace epidote alteration. Minor patchy potassic alteration around small crosscutting stringers/veinlets.							
						MD	GY		CHL	1I		
						LT	GY	FR	CLY	2I	Py	1
									OXI	3I		
10.67	12.90	2.23	GRD	MG	Medium grained GRD, pervasive moderate clay alteration, limonite and FeOx on fracture surfaces. Rubbly and strained, with associated pervasive moderate clay alteration. Disseminated py and minor blebs of bornite.							
						LT	OR	RB				
						LT	GY	FR	CLY	4I	Py	1
						LT	CR	CR	OXI	2I	Bo	0.5
12.90	13.80	0.90	QFP	FG	fine grained dyke materail							
						LT	GN	MA	SER	1I		
						LT	GY	FR	CLY	2I	Py	0.25
								PO				
13.80	14.20	0.40	BXA	--	brecciated fine grained dyke materail, medium grey silicious matrix, weakly disseminated py							
						MD	GY	BX	SIL	3I	Py	0.2
						LT	GN		SER	1I		
						LT	GY		CLY	2I		
14.20	15.30	1.10	QFP	FG	fine grained dyke materail, broken, rubbly							
						LT	GN	RB	SER	2I		
						LT	GY	FR	CLY	2I	Py	0.5
						LT	BF		HEM	1I		
15.30	19.10	3.80	FLR	--	sheared and strained dyke material. Minor disseminated py and bo							
						LT	GY	SH	CLY	5I	Py	0.5
						LT	CR		HEM	1I	Do	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	PK					
19.10	22.60	3.50	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 1% over interval. Broken							
						LT	GY	PO	CLY	2I	Py	1
						LT	BF	FR	SER	1I	Bo	0.5
						LT	PK		HEM	1I		
						LT	GN					
22.60	32.40	9.80	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 1% over interval. Rubbly/faultd in sections, especially at top of interval. Small amount of native copper occuring with chalcocite in fracture at 25.2m.							
						LT	GY	PO	CLY	2I	Py	1
						LT	GN				Un	0.1
						LT	BF		HEM	1I	Bo	0.5
						LT	PK		SER	1I	Cu	0.1
32.40	34.10	1.70	SIL	FG	siliceous dyke, fine grrained, trace py. Weakly banded texture. Somewhat rubbly/strained at top and bottom of interval. Difficult to say if youger or older than surrounding rocks							
						LT	OR	ST	SIL	1I		
						LT	BN	MA	SER	1I	Py	0.1
						LT	GY	FR				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
34.10	38.40	4.30	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 0.5% over interval.							
						LT	GY	PO	CLY	2I	Py	0.5
						LT	PK		SER	1I	Bo	0.1
						LT	GN		HEM	1I		
						LT	BF					
38.40	39.00	0.60	FLR	--	sheared and strained dyke materail similar to that above							
						LT	BF	ST	HEM	1I	Bo	0.1
						LT	PK	SH				
						LT	GY	FR	CLY	5I	Py	1
						LT	GN					
39.00	41.10	2.10	QFP	FG	green grey finer grained qfp dyke, trace mineralization, phenocrysts less common.							
						LT	GN	PO	CHL	1I		
						LT	GY	MA	CLY	2I	Py	0.1
41.10	54.00	12.90	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 0.5% over interval. Rubbly/faultd in sections.							
						LT	CR	ST	SIL	1I	Cp	0.1
						LT	BF	PO	SER	1I	Bo	0.3
						LT	GY	CR	CLY	3I	Py	1
						LT	PK		HEM	1I		
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
54.00	56.50	2.50	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Pervasive weak clay sericite alteration. Disseminated py, minor. Strained and weakly folliated texture at bottom of interval near contact with grd below.							
						LT	BN	ST	SIL	2I		
						LT	GY	FR	CLY	3I	Py	0.3
56.50	58.50	2.00	GRD	MG	pervasively clay altered medium grianed grd. Clay alteration of feldspars, moderate bleaching around contact with dyke. Broken and somewhat rubbly							
						MD	GY	RB	BLE	2I		
						LT	GY	FR	CLY	3I	Py	0.5
58.50	62.50	4.00	GRD	MG	patchy alteration envelopes around small white and grey qtz veinlets with carbonate, minor py and cpy in fractures and stringers around these veins							
						MD	GY		CLY	1I	Py	0.1
						LT	GY		BLE	1I	Cp	0.1
62.50	80.00	17.50	GRD	MG	Dominantly unaltered to weakly altrered with minor alteration halos around small veinlets occuring at top of interval. Core somewhat broken with minor intervals of rubbly or strained rock.							
						MD	GY	MA	PRO	1I	Py	0.1
						MD	GN		CLY	1I		
80.00	86.00	6.00	GRD	MG	Minor carboante-clay gouge infill in some fractures. Hematite staining on some fractures. Core somewhat broken with minor intervals. Py in stringers.							
						MD	GY	FR	CLY	1I	Py	0.2
						MD	GN		PRO	1I		
									HEM	1I		
86.00	94.00	8.00	GRD	MG	Sheared and strained medium grained grd, weakly clay altered. Some intervals moderately clay altered and strained, feldspars altered to clays and becoming gougy. Minor disseminated Py.							
						MD	GY	ST	CLY	2I	Py	0.5
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
94.00	100.00	6.00	GRD	MG	Silica flooded and moderately clay altered medium grained grd. Propyllitic alteration around some veinlets and fractures with Py, minor Cpy and trace Mo. Carbonate veins with trace disseminated Py. Py disseminated througout, but concentrated around veinlets. Moderate chlorite alteration.							
						MD	GY	CR	SIL	4I	Py	1
						MD	GN		POT	1I		
						LT	GY		CHL	2I	Mo	0.1
						DK	GY	FL	PRO	2I	Cp	0.2
									CLY	1I		
100.00	105.00	5.00	FLR	--	faulted GRD. Bands of gouge with ~15% disseminate Py. Pervasive clay alteration. Folliations range between 40-55 deg tca. Clasts on gouge are silica altered.							
						MD	GY	PA	CHL	2I		
						LT	GN	ST	SIL	3I		
						LT	GY	SH	CLY	5I	Py	2
						LT	BK					
105.00	107.30	2.30	GRD	MG	silica flooded and clay altered/bleached GRD envelope around faulted rock. Trace weak chlorite alteration in feldspars(?). Trace dark black/grey minerals occuring in fracures and stingers (Mo? Bo?)							
						LT	GN	PA	CHL	1I	Un	0.1
						LT	GY	FL	CLY	4I	Py	0.5
									SIL	4I		
107.30	111.75	4.45	GRD	MG	Med grained GRD, feldspars weakly clay altered and patchy weak to moderate silica alteration. Clay infill in some fractures. Epidote-Chlorite alteration around minor fractures. Biotite in GRD generally altered to light green Chlorite-clay. Small veinlets of qtz-py with local intense chlorite alteration or vnhosted chlorite							
111.75	112.35	0.60	GRD	MG	sheared and strained fractured interval							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
112.35	114.70	2.35	GRD	MG	Med grained GRD, feldspars weakly clay altered and patchy weak to moderate silica alteration. Clay infill in some fractures. Epidote-Chlorite alteration around minor fractures. Biotite in GRD generally altered to light green Chlorite-clay. Small veinlets of qtz-py with local intense chlorite alteration or vnhosted chlorite							
114.70	115.65	0.95	GRD	FG	finer grained							
115.65	119.30	3.65	GRD	MG	med grained with silicified patches and propyllitis altered stringers							
119.30	119.85	0.55	GRD	FG	finer grained							
119.85	120.25	0.40	GRD	MG	med grained with silica flooding and propylitic alteration stringers and py and such							
120.25	120.75	0.50	GRD	FG	finer grained with 5mm veinlet with py and trace mo.							
120.75	122.00	1.25	GRD	MG	weak to mod clay alteration, patchy silica alteration. Trace weak hematite alteration. Chlorite alteration of biotites							
122.00	123.85	1.85	GRD	FG	fine grained grd, greyish, patchy with warped xenoliths, tiny stringers with small weak hematite alteration halos. Patchy strong epidote alteration around more intensly bleached intervals distal to small py-hematite veinlet that has small weak hematite alteration halo. Other small stringers with epidote alteration halos. Disseminated py througout.							
123.85	125.27	1.42	GRD	MG	medium grained weakly clay altered and silica altered. Bands of py and qtz with chlorite alteration halos. Pervasive weak chlorite alteration							
125.27	127.56	2.29	GRD	FG	Clay altered, silica flooded, bleached fine grained. Fine fractures at chaotic orientations. Some small qtz carboante veinlets. Minor dark grey/black minerals in fine fractures (Mo? Bo?)							
						LT	GY	MA	BLE	3I	Py	0.5
						LT	BF	CR	CLY	2I	Un	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		SIL	2I		
127.56	130.30	2.74	GRD	MG	Medium grained weakly clay altered, weakly chlorite altered, disseminated Py. Minor carbonate qtz veins, light pink/white carbonate (ankerite and rhodochrosite?), somewhat vuggy. 130-130.2m has sulphide qtz veins at 45 and 70 deg tca, making well mineralized interval ~ 15cm wide. Py, Cpy and Bn.							
						MD	GY	MA	CLY	1I	Py	2
						MD	GN		CHL	2I	Bo	1
						LT	GY		SIL	2I	Cp	2
130.30	131.65	1.35	FLR	--	Faulted granodiorite and vein material in rubbly gouge. Well mineralized clasts vein material containing Py, Cpy, Bn. Especially well mineralized between 130.30-131.00m. Difficult to get orientation on faulted interval, lots of shears at different angles, no prefered orientation.							
						MD	GY	SH	CLY	4I	Py	2
						LT	GY	RB			Cp	2
								ST			Bo	2
131.65	136.15	4.50	GRD	FG	medium to fine grained grd, patchy potassic alteration. Pervasive chlorite alteration, Epidote alteration around some small stringers, often with py. Weak clay alteration around small chlorite veinlets, ex 136.15m, also with some py.							
						MD	GY		POT	2I	Py	0.1
						MD	GN		CHL	3I		
						LT	GY		EP	2I		
									CLY	1I		
136.15	139.15	3.00	GRD	MG	med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated.							
						MD	GY	MO	POT	2I	Py	0.1
						MD	GN		CHL	3I		
						LT	GY		EP	2I		
						LT	PK		BLE	2I		
139.15	139.28	0.13	VEN	--	sheared grey bleached silicified veinlet. 5% py with minor Cpy and trace Mo. 76 deg tca.							
						MD	GY				Cp	1
						LT	GY		SIL	4I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Mo	0.2
139.28	142.10	2.82	GRD	MG	med grained grd with weak patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated, or with darker chlorite halos.							
						MD	GN		SIL	2I	Py	0.3
						MD	GY		EP	2I		
						LT	GY		CHL	3I		
									BLE	1I		
142.10	142.29	0.19	GRD	MG	altered envelope							
142.29	142.43	0.14	VEN	--	silica altered rock cut with qtz veins, indescrete edges, containing py and cpy							
											Py	5
											Cp	2
142.43	142.54	0.11	GRD	MG	altered envelope							
142.54	143.80	1.26	GRD	MG	Med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated. Minor veinlets with Py +- Cpy.							
143.80	144.50	0.70	GRD	MG	rubble, strained interval, moderate clay and chlorite alteration							
144.50	148.00	3.50	GRD	MG	med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.							
148.00	148.85	0.85	GRD	--	Strongly silica altered anfd bleached vein zone, brecciated at middle-bottom of interval. Py and Cpy. Clasts of sulphides suspended in sucrosic siliceous matrix. Boundaries between host rock and vein walls hard to determine due to silica alteration. Disseminated Py throughout interval.							
						MD	GY	FL	SIL	4I	Py	3
						LT	GY				Cp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
148.85	155.90	7.05	GRD	MG	Broken med grained grd with stringers containing qtz py or carboante py with epidote in alteration halos, often with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.							
						MD	GY	RB	SIL	2I	Py	0.2
						MD	GN	PA	CLY	2I	Cp	0.1
						LT	GY		EP	2I		
									CHL	2I		
155.90	156.05	0.15	BXA	FG	Dark grey siliceous dyke(?) (Silicified dyke?) with warping foliation around clasts of silicified rock, sulphides, or other rock fragments in it. Very sharp contact with moderately to strongly altered grd at top of interval, planar contact at 80 deg tca. Lower contact irregular but also sharp with qfc dyke material.							
						MD	GY	BX	SIL	3I	Py	3
								FL				
156.05	156.69	0.64	QFP	FG	buff grey phenocryst poor qfp dyke							
						LT	BF	PO				
						LT	GY					
156.69	157.10	0.41	GRD	MG	crackled and silica altered							
157.10	157.25	0.15	GRD	MG	broken and crackled and silicified and weakly gougy and rubbly but competent							
157.25	157.38	0.13	BXA	FG	dark grey siliceous breccia similar to that a few units above, fractured and crackled, trace vfg disseminated py							
						MD	GY	CR	SIL	4I	Py	0.2
						LT	BK	BX				
157.38	159.00	1.62	GRD	MG	patchy silica claybalteration around small qtz-py shears/veinlets at 157.8m, 158m and 158.2m . Weak chlorite alteration, at 60-65 deg tca							
159.00	159.75	0.75	GRD	MG	background grd							
159.75	160.25	0.50	GRD	MG	clay silica alteration around very small veinlet or shear at 160m at 60 deg tca							
160.25	160.75	0.50	GRD	MG	background grd							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
160.75	161.25	0.50	GRD	MG	vein alteration envelope around qtz-py-mo vein at 161m, 4cm across, 68 deg tca							
											Py	2
											Mo	0.5
161.25	161.50	0.25	GRD	MG	background grd							
161.50	164.60	3.10	GRD	MG	Clay altered grd , light greenish grey feldspr alteration, weak silica alteration. No veins in this interval, just some small fractures with associated narrow chlorite silica alteration halos							
164.60	165.15	0.55	GRD	MG	vein alteration envelope. Around small qtz py cpy veinlet at 58 deg tca, possible mo. 2cm wide. Silica alteration.							
											Py	1
											Cp	0.5
165.15	165.50	0.35	GRD	MG	clay alteration of feldspars							
165.50	167.90	2.40	GRD	MG	Mottled alterations. Silica potassic clay hematite chlorite, weak to moderate, no associated mineralization							
167.90	168.05	0.15	GRD	MG	vein alteration halo. Small qtz py veinlet at 60 deg tca							
168.05	168.90	0.85	GRD	MG	clay altered grd							
168.90	172.70	3.80	GRD	MG	silica hematite chlorite epidote and potassic alteration. Epidote and hematite alteration most common in narrow halos around small stirngers or fractures							
172.70	173.90	1.20	GRD	MG	clay and silica alteration around small qtz-feld-carb veinlet at 173.25m.							
173.90	174.70	0.80	GRD	MG	chlorite silica with weak epidote alteration, pervasive througout interval, associated with small qtz py stringers?							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
174.70	175.20	0.50	GRD	MG	strong silica alterationa rouns set of small qtz py stringers/veinlets, vein boundaries not descernable, mineralization orientations variable at 50-80 deg tca, Py and Cpy							
											Py	1
											Cp	1
175.20	175.70	0.50	GRD	MG	clay alteration							
175.70	177.50	1.80	GRD	MG	vein halo alteration around mottled mess of small veinlets with Py-cpy-mo. Silica , clay chlorite alteration. Orientations variable, 45-75 deg tca							
											Py	2
											Cp	0.5
											Mo	0.2
177.50	178.20	0.70	GRD	MG	background grd							
178.20	179.85	1.65	GRD	MG	vein halo alteration around mottled mess of small veinlets with Py-cpy-mo +- Bn. Silica , clay chlorite alteration. Orientations variable, 45-75 deg tca							
											Py	0.5
											Cp	0.1
											Mo	0.1
											Bo	0.1
179.85	180.00	0.15	VEN	--	brecciated vein interval, poorly minerakized, py and minor cpy, with possible Mo, crackled texture, grey quartz							
											Py	1
											Cp	0.1
											Mo	0.1
180.00	180.77	0.77	GRD	MG	broken and fractured and crackled interval minor mineralization, minor shear texture, shear orientation 75 deg tca, similar to that of mineralization througout interval. Minor Py, cpy and Mo							
											Py	1
											Cp	0.1
											Mo	0.1
180.77	180.88	0.11	VEN	--	web-like viening with Py, Cpy, Mo, Bn, through clay altered med grd.							
											Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Bo	5
											Mo	1
											Cp	1
180.88	181.53	0.65	GRD	MG	alterd grd from vein above, clay silica chlorite alteration							
181.53	182.20	0.67	GRD	MG	background grd							
182.20	182.56	0.36	GRD	MG	strong silica alteration around vein, also clay chlorite alteration							
182.56	182.65	0.09	VEN	--	Qtz py cpy vein, unidentifiable silvery metalic mineral, aspy? Mo? At 56 deg tca							
											Un	2
											Py	10
											Cp	5
182.65	183.00	0.35	GRD	MG	strong silica alteration around vein, also clay chlorite alteration							
183.00	210.70	27.70	GRD	MG	Patchy mess of alterated med grained grd. Chlorite, silica, weak potassic, patchy clay. Minor small qtz py vienlets and stringers with epidote and hematite alteration in narrow alteration halos. Minor to trace Cpy.							
						MD	GN	PA	SIL	3I	Cp	0.1
						MD	GY	MA	CLY	2I	Py	0.5
						LT	GY	MO	HEM	1I		
									CHL	3I		
									EP	2I		
210.70	211.05	0.35	GRD	MG	strongly clay altered and strained, rubbly							
						MD	GN	ST				
						MD	GY					
						LT	WH	RB	CHL	3I		
						LT	GN	FR	CLY	5I		
211.05	214.65	3.60	GRD	MG	Patchy potassic alteration around small fractures occuring low to core axis. Common epidote and chlorite alteration around small stringers, often with minor Py occuring 46-70 deg tca. Patchy silica alteration.							
						MD	GY	FR	CHL	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	MR		SIL	2I		
						MD	BR		EP	3I		
						LT	GY		POT	3I		
214.65	215.05	0.40	GRD	MG	Vein alteration envelope around Qtz py veining at 60 and 25 deg tca. Silica alteration, pervasive, strong, altering grd to greyish and destroying textures in granite. Veins ~2cm each with patchy blebby py							
						MD	GY		SIL	5I	Py	2
						LT	GY					
215.05	227.80	12.75	GRD	MG	Chlorite alteration pervasive and epidote alteration in narrow bands around fractures. Small Qtz-Py-Cpy stringers, with chlorite alteration halos. Small Qtz-py-Cpy veinlets 1-2cm wide, occasionaly with Mo, possibly Bn. Small veins at 217.4m (trace sphal and gal), 218.3m, 220.5m (Mo and possible Bn), 222m.							
						MD	GN	ZO	SIL	2I	Py	0.5
						MD	GY		EP	2I	Sp	0.1
						LT	GN		CHL	3I	Cp	0.1
									CLY	1I	Gn	0.1
											Mo	0.1
											Bo	0.1
227.80	228.50	0.70	GRD	--	clay altered and strained / faulted interval, minor.							
						LT	GN	ST	CLY	5I		
						LT	WH	SH	CHL	3I		
						LT	GY	RB				
228.50	236.60	8.10	GRD	MG	Common narrow bands of chlorite-epidote alteration around small fractures, often with weak clay alteration halos as well, overprinted by chl-ep. Sometimes with py. Pervasive weak silica alteration. Some small qtz-py veinlets with trace Cpy at 60 deg tca							
						MD	GN		CHL	3I	Py	0.5
						MD	GY		EP	3I	Cp	0.1
						LT	GN		SIL	2I		
									CLY	1I		
236.60	236.73	0.13	GRD	MG	Silica altered and weakly mineralized with Py, Gal, and Sphal, minor to trace. Broken and crackled appearance but relithified							
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	0.5
											Sp	0.5
236.73	240.80	4.07	GRD	MG	broken and locally clay altered and rubbly. Minor carbonate alteration and veining throughout. Chlorite alteratin and occasional py stringers							
								FR	CLY	3I		
240.80	243.90	3.10	FLR	--	faulted and sheared/strained grd, rubbly, clay altered. Carboante veining, calcite. Patchy silica and pervaisce chlorite alteration. Intervals of gouge, at 28 deg tca							
						MD	GN	ST				
						LT	GY	RB				
								SH				
								FR				
243.90	245.00	1.10	GRD	MG	broken grd usual suspects of alteration. Chlorite, silica, patchy clay, only epidote seems absent to the party							
						MD	GN	FR				
						MD	GY					
245.00	252.40	7.40	GRD	MG	Zone containing 8 Qtz-Py-Cpy +- Bn-Mo veinlets 2-4cm across with silica-clay alteration halos of varying strengths. Pervasive chlorite-epidote alteration in background rocks, with strong alteration around small qtz py stringers. Veinlets at 245.1m, 246.1m, 247.5, 247.8m, 248.4m, 249.8m, 251.8m, 252.3m. Orientations at 50-72 deg tca.							
						MD	GN	ZO	SIL	3I	Py	1
						MD	GY	EN	CLY	2I	Cp	1
						LT	GY		CHL	3I	Mo	0.1
						LT	GN		EP	3I	Bo	0.1
252.40	258.80	6.40	GRD	MG	Chlorite alteration weaker than intervalso above, less pervasive, still small stringers cutting through with epidote and chlorite alteration in narrow halos. Occasional small qtz-py veinlets cutting through with silica alteration halos. Compotent core.							
						MD	GY	MA	CLY	2I	Py	0.5
									EP	2I		
									SIL	2I		
258.80	259.80	1.00	GRD	MG	altered envelope same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
259.80	260.10	0.30	VEN	--	broken vein , brecciated, cracked, calcite quartz carbonate chalcedony, py and minor Mo. Vuggy.							
											Py	8
											Mo	0.5
260.10	262.25	2.15	GRD	MG	altered envelope same as general lith, some small additional veins containing py and mo, patchy alteration, clay and silica, pervasive chlorite.							
											Mo	0.1
											Py	0.5
262.25	270.00	7.75	GRD	MG	same as general lith							
270.00	270.50	0.50	GRD	MG	clay altered and strained							
						LT	GY	ST	CLY	4I		
270.50	278.87	8.37	GRD	MG	same as general lith							
278.87	279.25	0.38	GRD	MG	vein alteration silica flooding around 4cm py vein, grey							
						MD	GY	FL	SIL	4I	Py	4
								EN				
279.25	281.94	2.69	GRD	MG	grd, same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.30	1.30	CAS	OVB	--	casing
1.30	6.80	5.50	OVB	OVB	--	overburden
6.80	10.67	3.87	GRD	GRDM	MG	Medium grained GRD, pervasive weak clay alteration, limonite and FeOx on fracture surfaces, broken. Weak propylitic alteration, mafic minerals altered moderately to chlorite with patchy trace epidote alteration. Minor patchy potassic alteration around small crosscutting stringers/veinlets.
10.67	12.90	2.23	GRD	GRDM	MG	Medium grained GRD, pervasive moderate clay alteration, limonite and FeOx on fracture surfaces. Rubbly and strained, with associated pervasive moderate clay alteration. Disseminated py and minor blebs of bornite.
12.90	13.80	0.90	QFP	DYKM	FG	fine grained dyke materail
13.80	14.20	0.40	BXA	DYKM	--	brecciated fine grained dyke materail, medium grey silicious matrix, weakly disseminated py
14.20	15.30	1.10	QFP	DYKM	FG	fine grained dyke materail, broken, rubbly
15.30	19.10	3.80	FLR	DYKM	--	sheared and strained dyke material. Minor disseminated py and bo
19.10	22.60	3.50	QFP	DYKM	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 1% over interval. Broken
22.60	32.40	9.80	QFP	DYKM	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 1% over interval. Rubbly/faultd in sections, especially at top of interval. Small amount of native copper occuring with chalcocite in fracture at 25.2m.
32.40	34.10	1.70	SIL	DYKM	FG	siliceous dyke, fine grrained, trace py. Weakly banded texture. Somewhat rubbly/strained at top and bottom of interval. Difficult to say if youger or older than surrounding rocks
34.10	38.40	4.30	QFP	DYKM	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 0.5% over interval.
38.40	39.00	0.60	FLR	DYKM	--	sheared and strained dyke materail similar to that above
39.00	41.10	2.10	QFP	DYKM	FG	green grey finer grained qfp dyke, trace mineralization, phenocrysts less common.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
41.10	54.00	12.90	QFP	DYKM	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 0.5% over interval. Rubbly/faultd in sections.
54.00	56.50	2.50	QFP	DYKM	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Pervasive weak clay sericite alteration. Disseminated py, minor. Strained and weakly folliated texture at bottom of interval near contact with grd below.
56.50	58.50	2.00	GRD	GRDA	MG	pervasively clay altered medium grianed grd. Clay alteration of feldspars, moderate bleaching around contact with dyke. Broken and somewhat rubbly
58.50	62.50	4.00	GRD	GRD	MG	patchy alteration envelopes around small white and grey qtz veinlets with carbonate, minor py and cpy in fractures and stringers around these veins
62.50	80.00	17.50	GRD	GRD	MG	Dominantly unaltered to weakly altrered with minor alteration halos around small veinlets occuring at top of interval. Core somewhat broken with minor intervals of rubbly or strained rock.
80.00	86.00	6.00	GRD	GRD	MG	Minor carboante-clay gouge infill in some fractures. Hematite staining on some fractures. Core somewhat broken with minor intervals. Py in stringers.
86.00	94.00	8.00	GRD	GRDF	MG	Sheared and strained medium grained grd, weakly clay altered. Some intervals moderately clay altered and strained, feldspars altered to clays and becoming gougy. Minor disseminated Py.
94.00	100.00	6.00	GRD	GRDA	MG	Silica flooded and moderately clay altered medium grained grd. Propyllitic alteration around some veinlets and fractures with Py, minor Cpy and trace Mo. Carbonate veins with trace disseminated Py. Py disseminated througout, but concentrated around veinlets. Moderate chlorite alteration.
100.00	105.00	5.00	FLR	FLT	--	faulted GRD. Bands of gouge with ~15% disseminate Py. Pervasive clay alteration. Folliations range between 40-55 deg tca. Clasts on gouge are silica altered.
105.00	107.30	2.30	GRD	GRDA	MG	silica flooded and clay altered/bleached GRD envelope around faulted rock. Trace weak chlorite alteration in feldspars(?). Trace dark black/grey minerals occuring in fracures and stingers (Mo? Bo?)
107.30	111.75	4.45	GRD	GRDA	MG	Med grained GRD, feldspars weakly clay altered and patchy weak to moderate silica alteration. Clay infill in some fractures. Epidote-Chlorite alteration around minor fractures. Biotite in GRD generally altered to light green Chlorite-clay. Small veinlets of qtz-py with local intense chlorite alteration or vnhosted chlorite
111.75	112.35	0.60	GRD	GRDA	MG	sheared and strained fractured interval

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
112.35	114.70	2.35	GRD	GRDA	MG	Med grained GRD, feldspars weakly clay altered and patchy weak to moderate silica alteration. Clay infill in some fractures. Epidote-Chlorite alteration around minor fractures. Biotite in GRD generally altered to light green Chlorite-clay. Small veinlets of qtz-py with local intense chlorite alteration or vnhosted chlorite
114.70	115.65	0.95	GRD	GRD	FG	finer grained
115.65	119.30	3.65	GRD	GRD	MG	med grained with silicified patches and propyllitis altered stringers
119.30	119.85	0.55	GRD	GRD	FG	finer grained
119.85	120.25	0.40	GRD	GRD	MG	med grained with silica flooding and propylitic alteration stringers and py and such
120.25	120.75	0.50	GRD	GRD	FG	finer grained with 5mm veinlet with py and trace mo.
120.75	122.00	1.25	GRD	GRD	MG	weak to mod clay alteration, patchy silica alteration. Trace weak hematite alteration. Chlorite alteration of biotites
122.00	123.85	1.85	GRD	GRD	FG	fine grained grd, greyish, patchy with warped xenoliths, tiny stringers with small weak hematite alteration halos. Patchy strong epidote alteration around more intensly bleached intervals distal to small py-hematite veinlet that has small weak hematite alteration halo. Other small stringers with epidote alteration halos. Disseminated py througout.
123.85	125.27	1.42	GRD	GRD	MG	medium grained weakly clay altered and silica altered. Bands of py and qtz with chlorite alteration halos. Pervasive weak chlorite alteration
125.27	127.56	2.29	GRD	GRDA	FG	Clay altered, silica flooded, bleached fine grained. Fine fractures at chaotic orientations. Some small qtz carboante veinlets. Minor dark grey/black minerals in fine fractures (Mo? Bo?)
127.56	130.30	2.74	GRD	GRDA	MG	Medium grained weakly clay altered, weakly chlorite altered, disseminated Py. Minor carbonate qtz veins, light pink/white carbonate (ankerite and rhodochrosite?), somewhat vuggy. 130-130.2m has sulphide qtz veins at 45 and 70 deg tca, making well mineralized interval ~ 15cm wide. Py, Cpy and Bn.
130.30	131.65	1.35	FLR	FLTM	--	Faulted granodiorite and vein material in rubbly gouge. Well mineralized clasts vein material containing Py, Cpy, Bn. Especially well mineralized between 130.30-131.00m. Difficult to get orientation on faulted interval, lots of shears at different angles, no prefered orientation.
131.65	136.15	4.50	GRD	GRDA	FG	medium to fine grained grd, patchy potassic alteration. Pervasive chlorite alteration, Epidote alteration around some small stringers, often with py. Weak clay alteration around small chlorite veinlets, ex 136.15m, also with some py.
136.15	139.15	3.00	GRD	GRDA	MG	med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated.
139.15	139.28	0.13	VEN	GRDA	--	sheared grey bleached silicified veinlet. 5% py with minor Cpy and trace Mo. 76 deg tca.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
139.28	142.10	2.82	GRD	GRDA	MG	med grained grd with weak patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated, or with darker chlorite halos.
142.10	142.29	0.19	GRD	GRDA	MG	altered envelope
142.29	142.43	0.14	VEN	GRDA	--	silica altered rock cut with qtz veins, indescrete edges, containing py and cpy
142.43	142.54	0.11	GRD	GRDA	MG	altered envelope
142.54	143.80	1.26	GRD	GRDA	MG	Med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated. Minor veinlets with Py +- Cpy.
143.80	144.50	0.70	GRD	GRDA	MG	rubble, strained interval, moderate clay and chlorite alteration
144.50	148.00	3.50	GRD	GRDA	MG	med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.
148.00	148.85	0.85	GRD	VEIN	--	Strongly silica altered anfd bleached vein zone, brecciated at middle-bottom of interval. Py and Cpy. Clasts of sulphides suspended in sucrosic siliceous matrix. Boundaries between host rock and vein walls hard to determine due to silica alteration. Disseminated Py throughout interval.
148.85	155.90	7.05	GRD	GRDA	MG	Broken med grained grd with stringers containing qtz py or carboante py with epidote in alteration halos, often with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.
155.90	156.05	0.15	BXA	DYK	FG	Dark grey siliceous dyke(?) (Silicified dyke?) with warping foliation around clasts of silicified rock, sulphides, or other rock fragments in it. Very sharp contact with moderately to strongly altered grd at top of interval, planar contact at 80 deg tca. Lower contact irregular but also sharp with qfc dyke material.
156.05	156.69	0.64	QFP	DYK	FG	buff grey phenocryst poor qfp dyke
156.69	157.10	0.41	GRD	GRDA	MG	crackled and silica altered
157.10	157.25	0.15	GRD	GRDA	MG	broken and crackled and silicified and weakly gougy and rubbly but competent
157.25	157.38	0.13	BXA	DYK	FG	dark grey siliceous breccia similar to that a few units above, fractured and crackled, trace vfg disseminated py
157.38	159.00	1.62	GRD	GRDA	MG	patchy silica claybalteration around small qtz-py shears/veinlets at 157.8m, 158m and 158.2m . Weak chlorite alteration, at 60-65 deg tca
159.00	159.75	0.75	GRD	GRDA	MG	background grd
159.75	160.25	0.50	GRD	GRDA	MG	clay silica alteration around very small veinlet or shear at 160m at 60 deg tca

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
160.25	160.75	0.50	GRD	GRDA	MG	background grd
160.75	161.25	0.50	GRD	GRDA	MG	vein alteration envelope around qtz-py-mo vein at 161m, 4cm across, 68 deg tca
161.25	161.50	0.25	GRD	GRDA	MG	background grd
161.50	164.60	3.10	GRD	GRDA	MG	Clay altered grd , light greenish grey feldspr alteration, weak silica alteration. No veins in this interval, just some small fractures with associated narrow chlorite silica alteration halos
164.60	165.15	0.55	GRD	GRDA	MG	vein alteration envelope. Around small qtz py cpy veinlet at 58 deg tca, possible mo. 2cm wide. Silica alteration.
165.15	165.50	0.35	GRD	GRDA	MG	clay alteration of feldspars
165.50	167.90	2.40	GRD	GRDA	MG	Mottled alterations. Silica potassic clay hematite chlorite, weak to moderate, no associated mineralization
167.90	168.05	0.15	GRD	GRDA	MG	vein alteration halo. Small qtz py veinlet at 60 deg tca
168.05	168.90	0.85	GRD	GRDA	MG	clay altered grd
168.90	172.70	3.80	GRD	GRDA	MG	silica hematite chlorite epidote and potassic alteration. Epidote and hematite alteration most common in narrow halos around small stirngers or fractures
172.70	173.90	1.20	GRD	GRDA	MG	clay and silica alteration around small qtz-feld-carb veinlet at 173.25m.
173.90	174.70	0.80	GRD	GRDA	MG	chlorite silica with weak epidote alteration, pervasive througout interval, associated with small qtz py stringers?
174.70	175.20	0.50	GRD	GRDA	MG	strong silica alterationa rouns set of small qtz py stringers/veinlets, vein boundaries not descernable, mineralization orientations variable at 50-80 deg tca, Py and Cpy
175.20	175.70	0.50	GRD	GRDA	MG	clay alteration
175.70	177.50	1.80	GRD	GRDA	MG	vein halo alteration around mottled mess of small veinlets with Py-cpy-mo. Silica , clay chlorite alteration. Orientations variable, 45-75 deg tca
177.50	178.20	0.70	GRD	GRDA	MG	background grd
178.20	179.85	1.65	GRD	GRDA	MG	vein halo alteration around mottled mess of small veinlets with Py-cpy-mo +- Bn. Silica , clay chlorite alteration. Orientations variable, 45-75 deg tca
179.85	180.00	0.15	VEN	GRDA	--	brecciated vein interval, poorly minerakized, py and minor cpy, with possible Mo, crackled texture, grey quartz
180.00	180.77	0.77	GRD	GRDA	MG	broken and fractured and crackled interval minor mineralization, minor shear texture, shear orientation 75 deg tca, similar to that of mineralization througout interval. Minor Py, cpy and Mo
180.77	180.88	0.11	VEN	GRDA	--	web-like viening with Py, Cpy, Mo, Bn, through clay altered med grd.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
180.88	181.53	0.65	GRD	GRDA	MG	alterd grd from vein above, clay silica chlorite alteration
181.53	182.20	0.67	GRD	GRDA	MG	background grd
182.20	182.56	0.36	GRD	GRDA	MG	strong silica alteration around vein, also clay chlorite alteration
182.56	182.65	0.09	VEN	GRDA	--	Qtz py cpy vein, unidentifiable silvery metalic mineral, aspy? Mo? At 56 deg tca
182.65	183.00	0.35	GRD	GRDA	MG	strong silica alteration around vein, also clay chlorite alteration
183.00	210.70	27.70	GRD	GRD	MG	Patchy mess of alterated med grained grd. Chlorite, silica, weak potassic, patchy clay. Minor small qtz py vienlets and stringers with epidote and hematite alteration in narrow alteration halos. Minor to trace Cpy.
210.70	211.05	0.35	GRD	GRD	MG	strongly clay altered and strained, rubbly
211.05	214.65	3.60	GRD	GRD	MG	Patchy potassic alteration around small fractures occuring low to core axis. Common epidote and chlorite alteration around small stringers, often with minor Py occuring 46-70 deg tca. Patchy silica alteration.
214.65	215.05	0.40	GRD	GRD	MG	Vein alteration envelope around Qtz py veining at 60 and 25 deg tca. Silica alteration, pervasive, strong, altering grd to greyish and destroying textures in granite. Veins ~2cm each with patchy blebby py
215.05	227.80	12.75	GRD	GRD	MG	Chlorite alteration pervasive and epidote alteration in narrow bands around fractures. Small Qtz-Py-Cpy stringers, with chlorite alteration halos. Small Qtz-py-Cpy veinlets 1-2cm wide, occasionaly with Mo, possibly Bn. Small veins at 217.4m (trace sphal and gal), 218.3m, 220.5m (Mo and possible Bn), 222m.
227.80	228.50	0.70	GRD	FLT	--	clay altered and strained / faulted interval, minor.
228.50	236.60	8.10	GRD	GRD	MG	Common narrow bands of chlorite-epidote alteration around small fractures, often with weak clay alteration halos as well, overprinted by chl-ep. Sometimes with py. Pervasive weak silica alteration. Some small qtz-py veinlets with trace Cpy at 60 deg tca
236.60	236.73	0.13	GRD	GRDF	MG	Silica altered and weakly mineralized with Py, Gal, and Sphal, minor to trace. Broken and crackled appearance but relithified
236.73	240.80	4.07	GRD	GRDF	MG	broken and locally clay altered and rubbly. Minor carbonate alteration and veining throughout. Chlorite alteratin and occasional py stringers
240.80	243.90	3.10	FLR	GRDF	--	faulted and sheared/strained grd, rubbly, clay altered. Carboante veining, calcite. Patchy silica and pervaisce chlorite alteration. Intervals of gouge, at 28 deg tca
243.90	245.00	1.10	GRD	GRDF	MG	broken grd usual suspects of alteration. Chlorite, silica, patchy clay, only epidote seems absent to the party
245.00	252.40	7.40	GRD	VEIN	MG	Zone containing 8 Qtz-Py-Cpy +- Bn-Mo veinlets 2-4cm across with silica-clay alteration halos of varying strengths. Pervasive chlorite-epidote alteration in background rocks, with strong alteration around small qtz py stringers. Veinlets at 245.1m, 246.1m, 247.5, 247.8m, 248.4m, 249.8m, 251.8m, 252.3m. Orientations at 50-72 deg tca.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
252.40	258.80	6.40	GRD	GRD	MG	Chlorite alteration weaker than intervalso above, less pervasive, still small stringers cutting through with epidote and chlorite alteration in narrow halos. Occasional small qtz-py veinlets cutting through with silica alteration halos. Compotent core.
258.80	259.80	1.00	GRD	GRDA	MG	altered envelope same as general lith
259.80	260.10	0.30	VEN	GRDA	--	broken vein , brecciated, cracked, calcite quartz carbonate chalcedony, py and minor Mo. Vuggy.
260.10	262.25	2.15	GRD	GRDA	MG	altered envelope same as general lith, some small additional veins containing py and mo, patchy alteration, clay and silica, pervasive chlorite.
262.25	270.00	7.75	GRD	GRD	MG	same as general lith
270.00	270.50	0.50	GRD	GRD	MG	clay altered and strained
270.50	278.87	8.37	GRD	GRD	MG	same as general lith
278.87	279.25	0.38	GRD	GRD	MG	vein alteration silica flooding around 4cm py vein, grey
279.25	281.94	2.69	GRD	GRD	MG	grd, same as general lith

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	CAS	--	casing							
1.30	6.80	5.50	OVB	--	overburden							
6.80	12.90	6.10	GRD	MG	Medium grained GRD, pervasive weak clay alteration, limonite and FeOx on fracture surfaces. Weak propylitic alteration, mafic minerals altered moderately to chlorite with patchy trace epidote alteration. Minor patchy potassic alteration around small crosscutting stringers/veinlets. Locally rubbly and strained, ex 10.8m, with associated pervasive moderate clay alteration.				EP	1I		
						LT	GY	FR	CLY	2I	Py	1
						MD	GY	CR	OXI	3I		
						LT	PK		PRO	2I		
						LT	OR		POT	1I		
						LT	BN		CHL	2I		
12.90	56.50	43.60	QFP	MG	Light buff grey medium grained qfp dyke with quartz phenocrysts up to 1cm across and smaller feldspar phenocrysts up to 5mm, but generally 2-3mm. Groundmass aphanitic. Patchy hematite alteration, pervasive weak clay sericite alteration. Disseminated py, generally euhedral to subhedral, 1-2%, and lesser disseminated Bo occuring in patches. Maybe as high as 0.5-1% over interval. Rubbly/faultd in sections, especially at top of interval. Several smaller finer grained unmineralized pulses of dyke intruding the porphyritic dyke. Small amount of native copper occuring in fracture at 25.2m.							
						MD	GY					
						LT	GN					
						LT	PK		HEM	1I	Cu	0.1
						LT	GY	PO	CLY	2I	Py	1
						LT	BF		SER	2I	Bo	1
56.50	58.50	2.00	GRD	MG	pervasively clay altered medium grianed grd. Clay alteration of feldspars, moderate bleaching around contact with dyke. Broken and somewhat rubbly							
						LT	GY	RB	CLY	3I	Py	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	FR	BLE	2I		
58.50	86.00	27.50	GRD	MG	Dominantly unaltered to weakly altrered with minor alteration halos around small veinlets occuring at top of interval. Core somewhat broken with minor intervals of rubbly or strained rock. Trace epidote and chlorita alteration around small fracutres, often associated with py.							
						LT	GY					
						MD	GY	MA	CLY	1I	Py	0.3
						MD	GN		PRO	1I		
86.00	94.00	8.00	GRD	MG	Sheared and strained medium grained grd, weakly clay altered. Some intervals moderately clay altered and strained, feldspars altered to clays and becoming gougy. Minor disseminated Py.							
						MD	GY	ST	CLY	2I	Py	0.5
						LT	GY					
94.00	100.00	6.00	GRD	MG	Silica flooded and moderately clay altered medium grained grd. Propyllitic alteration around some veinlets and fractures with Py, minor Cpy and trace Mo. Carbonate veins with trace disseminated Py. Py disseminated througout, but concentrated around veinlets. Moderate chlorite alteration.							
						MD	GY	FL	SIL	4I	Py	1
						DK	GY	CR	PRO	2I	Cp	0.2
						LT	GY		CHL	2I	Mo	0.1
						MD	GN		POT	1I		
									CLY	1I		
100.00	105.00	5.00	FLR	--	faulted GRD. Bands of gouge with ~15% disseminate Py. Pervasive clay alteration. Folliations range between 40-55 deg tca. Clasts on gouge are silica altered.							
						LT	GY	SH	CLY	5I	Py	2
						MD	GY	ST	CHL	2I		
						LT	GN	PA	SIL	3I		
						LT	BK					
105.00	107.30	2.30	GRD	MG	silica flooded and clay altered/bleached GRD envelope around faulted rock. Trace weak chlorite alteration in feldspars(?). Trace dark black/grey minerals occuring in fracures and stingers (Mo? Bo?)							
									SIL	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	FL	CLY	4I	Py	0.5
						LT	GN	PA	CHL	1I	Un	0.1
107.30	114.70	7.40	GRD	MG	Med grained GRD, feldspars weakly clay altered and patchy weak to moderate silica alteration. Clay infill in some fractures. Epidote-Chlorite alteration around minor fractures. Biotite in GRD generally altered to light green Chlorite-clay. Small veinlets of qtz-py with local intense chlorite alteration or vnhosted chlorite							
						MD	GY	FR	CLY	2I	Py	0.6
						LT	GY	CR	SIL	3I		
						MD	GN		CHL	2I		
									EP	2I		
114.70	125.27	10.57	GRD	FG	mottled fine and medium grained grd, with epidote chlorite alteration and py around small stringers or fractures. Minor carbonate in fracture infill. Broken. Patchy weak clay alteration, Patchy moderate silica alteration. Some veinlets with hematite and small halos of hematite alteration. Trace cpy.							
						MD	GY	MO	CLY	2I	Py	1
						MD	GN	FL	SIL	3I	Cp	0.1
						LT	GY	PA	CHL	2I		
								FR	CLY	1I		
									EP	3I		
125.27	127.56	2.29	GRD	FG	Clay altered, silica flooded, bleached fine grained. Fine fractures at chaotic orientations. Some small qtz carboante veinlets. Minor dark grey/black minerals in fine fractures (Mo? Bo?)							
						LT	GN		SIL	2I		
						LT	GY	MA	BLE	3I	Py	0.5
						LT	BF	CR	CLY	2I	Un	0.1
127.56	130.30	2.74	GRD	MG	Medium grained weakly clay altered, weakly chlorite altered, disseminated Py. Minor carbonate qtz veins, light pink/white carbonate (ankerite and rhodochrosite?), somewhat vuggy. 130-130.2m has sulphide qtz veins at 45 and 70 deg tca, making well mineralized interval ~ 15cm wide. Py, Cpy and Bn.							
						MD	GN		CHL	2I	Bo	1
						MD	GY	MA	CLY	1I	Py	2
						LT	GY		SIL	2I	Cp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
130.30	131.65	1.35	FLR	--	Faulted granodiorite and vein material in rubbly gouge. Well mineralized clasts vein material containing Py, Cpy, Bn. Especially well mineralized between 130.30-131.00m. Difficult to get orientation on faulted interval, lots of shears at different angles, no prefered orientation.							
						MD	GY	SH	CLY	4I	Py	2
						LT	GY	ST			Cp	2
								RB			Bo	2
131.65	142.10	10.45	GRD	MG	Pervasive weak to moderate chlorite alteration, common epidote in or near stringers, patchy potassic alteration. Patchy clay alteration in halos around small rubbly fractures. Py disseminated or infill in fractures, trace Cpy and Mo in some veinlets. Possible Bn.							
						LT	GY	PA	SIL	2I	Py	0.5
						LT	GN		CHL	2I	Cp	0.1
						LT	PK		POT	2I		
						MD	GY		CLY	2I		
									CLY	2I		
142.10	142.54	0.44	GRD	MG	Alteration envelope around small qtz-carv veinelt with Py and Cpy. Grey green bleached envelope, light in colour. 60 deg tca							
						LT	GY	EN	BLE	3I	Py	2
						LT	GN	ZO	SIL	3I	Cp	0.5
142.54	148.00	5.46	GRD	MG	med grained grd with moderate patchy potassic alteration, sometimes overprinted by stringers containing qtz py or carboante py with epidote alteration halos, with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.							
						MD	GY		CLY	2I	Cp	0.2
						LT	GY		POT	1I		
									BLE	1I		
						MD	GN		CHL	3I	Py	0.5
148.00	148.85	0.85	GRD	--	Strongly silica altered anfd bleached vein zone, brecciated at middle-bottom of interval. Py and Cpy. Clasts of sulphides suspended in sucrosic siliceous matrix. Boundaries between host rock and vein walls hard to determine due to silica alteration. Disseminated Py throughout interval.							
						MD	GY	FL	SIL	4I	Py	3
						LT	GY				Cp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
148.85	155.90	7.05	GRD	MG	Broken med grained grd with stringers containing qtz py or carboante py with epidote in alteration halos, often with weak bleaching associated. Localized rubbly and strained sections. Minor veinlets with Py +- Cpy.							
						MD	GY	PA	SIL	2I	Py	0.2
						MD	GN	RB	CLY	2I	Cp	0.1
						LT	GY		EP	2I		
									CHL	2I		
155.90	156.05	0.15	BXA	FG	Dark grey siliceous dyke(?) (Silicified dyke?) with warping foliation around clasts of silicified rock, sulphides, or other rock fragments in it. Very sharp contact with moderately to strongly altered grd at top of interval, planar contact at 80 deg tca. Lower contact irregular but also sharp with qfc dyke material.							
						MD	GY	BX	SIL	3I	Py	3
								FL				
156.05	156.69	0.64	QFP	FG	buff grey phenocryst poor qfp dyke							
						LT	BF	PO				
						LT	GY					
156.69	157.25	0.56	GRD	MG	fractured and brecciated grey green buff altered medium grained grd, disseminated py. Moderate silica alteration							
						LT	BF	CR				
						LT	GY	FR	CLY	2I	Py	1
157.25	157.38	0.13	BXA	FG	dark grey siliceous breccia similar to that a few units above, fractured and crackled, trace vfg disseminated py							
						MD	GY	BX	SIL	4I	Py	0.2
						LT	BK	CR				
157.38	183.00	25.62	GRD	MG	Alterneting intervls of bleaching and clay ateration, background grd has weak clay, moderate chlorite and weak patchy potassic alteration. Cut by stringers with narrow chlorite epidote alteration halos. Some py found in these halos as well. GRD lacks significant disseminated py. Small py +- Cpy veinelts broken out in detailed lith.							
						MD	GY	PA	BLE	3I	Py	1
						MD	GN		CLY	2I		
						LT	GY		SIL	1I		
									CHL	3I		
									EP	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
183.00	215.05	32.05	GRD	MG	Patchy mess of alterated med grained grd. Chlorite, silica, weak potassic, patchy clay. Minor small qtz py vienlets and stringers with epidote and hematite alteration in narrow alteration halos. Minor to trace Cpy.							
						MD	GY	PA	CLY	2I	Py	0.5
						MD	GN	MO	SIL	3I	Cp	0.1
						LT	GY	MA	HEM	1I		
									CHL	3I		
									EP	2I		
215.05	227.80	12.75	GRD	MG	Chlorite alteration pervasive and epidote alteration in narrow bands around fractures. Small Qtz-Py-Cpy stringers, with chlorite alteration halos. Small Qtz-py-Cpy veinlets 1-2cm wide, occasionaly with Mo, possibly Bn. Small veins at 217.4m (trace sphal and gal), 218.3m, 220.5m (Mo and possible Bn), 222m.							
						LT	GN		CHL	3I	Cp	0.1
											Bo	0.1
											Mo	0.1
						MD	GY		EP	2I	Sp	0.1
						MD	GN	ZO	SIL	2I	Py	0.5
									CLY	1I	Gn	0.1
227.80	228.50	0.70	GRD	--	clay altered and strained / faulted interval, minor.							
						LT	GN	ST	CLY	5I		
						LT	WH	SH	CHL	3I		
						LT	GY	RB				
228.50	236.60	8.10	GRD	MG	Common narrow bands of chlorite-epidote alteration around small fractures, often with weak clay alteration halos as well, overprinted by chl-ep. Sometimes with py. Pervasive weak silica alteration. Some small qtz-py veinlets with trace Cpy at 60 deg tca							
						MD	GY		EP	3I	Cp	0.1
						LT	GN		SIL	2I		
						MD	GN		CHL	3I	Py	0.5
									CLY	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
236.60	245.00	8.40	GRD	MG	fractured and broken grd, locally strained and sheared. Likely represents a small fault structure. Some veins near top and bottom of interval. Some carbonate veinlets throughout fractured rock.							
									EP	2I		
						MD	GY	FR	CLY	3I	Py	0.1
						MD	GN	CR	SIL	1I	Sp	0.1
						LT	GY		CHL	3I	Gn	0.1
245.00	252.40	7.40	GRD	MG	Zone containing 8 Qtz-Py-Cpy +- Bn-Mo veinlets 2-4cm across with silica-clay alteration halos of varying strengths. Pervasive chlorite-epidote alteration in background rocks, with strong alteration around small qtz py stringers. Veinlets at 245.1m, 246.1m, 247.5, 247.8m, 248.4m, 249.8m, 251.8m, 252.3m. Orientations between 72-50 deg tca.							
						LT	GN		EP	3I	Bo	0.1
						LT	GY		CHL	3I	Mo	0.1
						MD	GN	ZO	SIL	3I	Py	1
						MD	GY	EN	CLY	2I	Cp	1
252.40	258.80	6.40	GRD	MG	Chlorite alteration weaker than intervalso above, less pervasive, still small stringers cutting through with epidote and chlorite alteration in narrow halos. Occasional small qtz-py veinlets cutting through with silica alteration halos. Compotent core.							
						MD	GY	MA	CLY	2I	Py	0.5
									EP	2I		
									SIL	2I		
258.80	262.25	3.45	GRD	MG	alteration envelope around small vein at 259.8-260.0m. Vein cracked and broke, vuggy, quartz-carb-chalcedony infill, crystaline calcite crystals, with bands of Py and Mo. Vein intercepted at 70 deg tca.							
						MD	GY	EN	CLY	3I	Py	0.5
									SIL	3I	Mo	0.1
									CHL	3I		
262.25	281.94	19.69	GRD	MG	chlorite epidote alteration, generally occuring around small fractures, sometimes with associated narrow clay alteration halos, but also pervasive throughout rock. Patchy silica alteration, associated with py vein at 279m. Small unit of clay altered strained grd at 270.4m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									SIL	3I		
						MD	GY		SIL	2I	Py	1
						MD	GN		CHL	2I		
									EP	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.47	0.47	0	0	0.00	0	--	--	--	
0.47	1.52	1.05	0.34	32	0.00	0	--	2H	6W	overburden
1.52	3.81	2.29	1.65	72	0.00	0	--	1H	6W	overburden, soil
3.81	4.88	1.07	1.01	94	0.00	0	--	2H	5W	
4.88	6.10	1.22	1.22	100	0.00	0	--	1H	6W	
6.10	7.62	1.52	1.26	83	0.00	0	--	2H	5W	
7.62	9.14	1.52	1.3	86	0.00	0	--	2H	4W	
9.14	10.67	1.53	1.53	100	0.00	0	--	2H	4W	
10.67	12.19	1.52	1.41	93	0.00	0	--	1H	3W	
12.19	13.72	1.53	1.12	73	0.00	0	--	2H	3W	fractured siliceous qfp dyke
13.72	15.24	1.52	1.21	80	0.00	0	--	2H	3W	euhedral cm size pyrite cubes in some pieces
15.24	16.15	0.91	0.9	99	0.00	0	--	2H	2W	fractured qfp dyke fault gouge, some clay
16.15	17.07	0.92	0.61	66	0.00	0	--	1H	2W	clay fault gouge
17.07	18.29	1.22	1	82	0.00	0	--	1H	2W	visible bornite and tarnished pyrite in fault gouge
18.29	20.12	1.83	1.76	96	0.00	0	--	1H	2W	
20.12	21.79	1.67	1.67	100	0.00	0	--	2H	2W	
21.79	24.38	2.59	2.59	100	0.42	16	--	3H	2W	siliceous qfp dyke with abundant bornite and pyrite visible
24.38	27.43	3.05	2.96	97	2.38	78	--	3H	1W	siliceous qfp dyke
27.43	30.48	3.05	2.67	88	1.22	40	--	3H	1W	siliceous qfp dyke
30.48	32.31	1.83	1.14	62	0.00	0	--	3H	1W	siliceous qfp dyke
32.31	35.05	2.74	2.33	85	0.00	0	--	3H	3W	dyke rubble
35.05	37.64	2.59	2.35	91	0.41	16	--	3H	2W	gougey dyke, rubbly
37.64	39.62	1.98	1.85	93	0.62	31	--	3H	2W	silicified dyke first 1/2, un-alt bottom 1/2
39.62	42.67	3.05	2.57	84	0.32	10	--	3H	1W	un-alt dyke, clay-alt dyke
42.67	45.72	3.05	2.48	81	0.49	16	--	4H	1W	siliceous qfp dyke
45.72	48.77	3.05	2.54	83	0.56	18	--	4H	2W	siliceous qfp dyke and clay gouge
48.77	51.82	3.05	2.6	85	0.30	10	--	3H	1W	clay-alt qfp dyke

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
51.82	54.86	3.04	1.93	63	0.48	16	--	3H	2W	clay-alt qfp dyke
54.86	57.91	3.05	2.56	84	0.00	0	--	4H	2W	grd
57.91	60.96	3.05	2.48	81	0.16	5	--	3H	1W	
60.96	64.01	3.05	2.75	90	0.23	8	--	3H	1W	
64.01	67.06	3.05	2.61	86	0.79	26	--	3H	1W	
67.06	68.58	1.52	1.02	67	0.00	0	--	3H	1W	rubbly
68.58	71.63	3.05	1.92	63	0.00	0	--	3H	1W	rubbly
71.63	73.15	1.52	1.39	91	0.55	36	--	4H	1W	
73.15	76.20	3.05	2	66	0.00	0	--	3H	1W	rubbly
76.20	77.72	1.52	1.37	90	0.10	7	--	3H	1W	
77.72	80.77	3.05	2.53	83	0.10	3	--	3H	2W	rubbly
80.77	82.30	1.53	1.3	85	0.00	0	--	3H	2W	rubbly
82.30	85.04	2.74	2.42	88	0.14	5	--	3H	2W	rubbly
85.04	86.54	1.50	1.24	83	0.10	7	--	3H	2W	rubbly
86.54	88.09	1.55	1.02	66	0.00	0	--	3H	1W	rubbly
88.09	90.53	2.44	1.95	80	0.00	0	--	2H	1W	rubbly, gougey
90.53	92.20	1.67	1.67	100	0.00	0	--	2H	1W	rubbly, gougey
92.20	93.88	1.68	0.25	15	0.00	0	--	3H	1W	rubble
93.88	95.10	1.22	1.22	100	0.00	0	--	3H	1W	rubble
95.10	96.01	0.91	0.72	79	0.00	0	--	3H	1W	
96.01	98.15	2.14	1.35	63	0.00	0	--	3H	1W	rubble
98.15	99.37	1.22	0.8	66	0.00	0	--	2H	1W	rubble
99.37	102.11	2.74	1.3	47	0.00	0	--	1H	1W	clayey gouge
102.11	103.63	1.52	1.01	66	0.00	0	--	1H	1W	clayey gouge
103.63	106.68	3.05	2.72	89	0.00	0	--	2H	1W	top 1/2 clayey gouge, bottom altered dyke
106.68	109.73	3.05	2.82	92	1.27	42	--	3H	1W	
109.73	111.86	2.13	1.73	81	0.10	5	--	3H	1W	
111.86	114.30	2.44	2.3	94	0.50	20	--	3H	1W	fx. clayey gouge @ top of interval
114.30	117.35	3.05	2.56	84	0.30	10	--	3H	1W	
117.35	120.40	3.05	2.99	98	0.28	9	--	3H	1W	
120.40	121.92	1.52	1.48	97	0.23	15	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
121.92	124.05	2.13	2.04	96	0.60	28	--	3H	1W	
124.05	125.27	1.22	1.01	83	0.00	0	--	3H	1W	
125.27	127.56	2.29	2.14	93	0.14	6	--	3H	1W	
127.56	129.54	1.98	1.78	90	0.26	13	--	3H	1W	no matching joint set
129.54	131.06	1.52	1.5	99	0.28	18	--	3H	1W	clay fault zone with visible bornite, chalcopyrite and pyrite in rubble
131.06	132.89	1.83	1.83	100	0.00	0	--	3H	1W	
132.89	135.03	2.14	2.14	100	0.00	0	--	3H	1W	rubble zone, drillers messed up blocks
135.03	137.16	2.13	2.1	99	0.57	27	--	3H	1W	
137.16	140.21	3.05	2.9	95	0.55	18	--	3H	1W	
140.21	143.26	3.05	2.25	74	0.23	8	--	3H	1W	
143.26	144.48	1.22	0.84	69	0.45	37	--	3H	1W	top 1/2 grd, bottom gougey rubble
144.48	146.30	1.82	1.82	100	0.53	29	--	3H	1W	
146.30	147.83	1.53	1.39	91	0.11	7	--	3H	1W	
147.83	150.27	2.44	2.44	100	0.78	32	--	3H	1W	
150.27	152.40	2.13	2.07	97	0.11	5	--	3H	1W	
152.40	155.45	3.05	2.72	89	0.35	11	--	3H	1W	rubble zones
155.45	158.50	3.05	2.86	94	2.22	73	--	3H	1W	hardness b/w 2 and 4
158.50	161.54	3.04	3.02	99	1.63	54	--	4H	1W	
161.54	164.59	3.05	2.94	96	1.79	59	--	3H	1W	
164.59	167.64	3.05	3	98	1.53	50	--	3H	1W	
167.64	169.60	1.96	1.8	92	0.82	42	--	3H	1W	
169.60	172.21	2.61	2.61	100	1.43	55	--	3H	1W	
172.21	175.26	3.05	2.95	97	1.63	53	--	4H	1W	
175.26	178.31	3.05	3.02	99	1.44	47	--	3H	1W	
178.31	181.36	3.05	2.94	96	1.79	59	--	3H	1W	silicified zones w/ hardness of 4
181.36	184.40	3.04	3.01	99	1.98	65	--	3H	1W	silicified zones w/ hardness of 4
184.40	187.45	3.05	3	98	2.14	70	--	4H	1W	
187.45	190.50	3.05	2.89	95	0.61	20	--	4H	2W	
190.50	193.55	3.05	2.86	94	0.97	32	--	4H	1W	fx. freq. excluding one small section of rubble
193.55	196.60	3.05	3.05	100	1.31	43	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
196.60	199.64	3.04	3.02	99	1.10	36	--	3H	1W	
199.64	201.17	1.53	1.49	97	0.72	47	--	3H	1W	
201.17	204.22	3.05	2.96	97	1.05	34	--	3H	1W	
204.22	207.26	3.04	2.96	97	0.81	27	--	3H	1W	
207.26	210.31	3.05	3.02	99	1.48	49	--	3H	1W	
210.31	213.36	3.05	3	98	1.40	46	--	3H	1W	
213.36	216.41	3.05	3.03	99	1.65	54	--	3H	1W	
216.41	219.46	3.05	2.94	96	2.15	70	--	3H	1W	
219.46	222.50	3.04	2.99	98	1.68	55	--	3H	1W	
222.50	225.55	3.05	3.02	99	1.66	54	--	3H	1W	
225.55	228.60	3.05	2.96	97	1.41	46	--	3H	1W	crumbly clay fault gouge/ clay altered granodiorite with minor calcite
228.60	231.65	3.05	2.95	97	0.87	29	--	3H	1W	
231.65	234.70	3.05	2.97	97	1.18	39	--	4H	1W	
234.70	237.74	3.04	2.96	97	0.26	9	--	2H	1W	
237.74	240.79	3.05	2.84	93	0.38	12	--	2H	1W	
240.79	243.84	3.05	2.81	92	0.14	5	--	2H	1W	clay rubble zone
243.84	246.89	3.05	2.87	94	0.49	16	--	3H	1W	rubble/ clay zone. Small cm size vein of pyrite + chalcopyrite in section
246.89	249.94	3.05	3.02	99	2.15	70	--	4H	1W	
249.94	252.98	3.04	3.01	99	1.86	61	--	4H	1W	
252.98	256.03	3.05	3.02	99	1.70	56	--	4H	1W	
256.03	259.08	3.05	3.03	99	1.02	33	--	3H	1W	
259.08	262.13	3.05	2.95	97	1.80	59	--	3H	1W	vuggy quartz vein with euhedral crystals and visible pyrite, sphalerite and galena. Some fractures infilled with a light peach-grey calcite and some silica but there are lots of open cavaties within the quartz
262.13	265.18	3.05	3.01	99	1.53	50	--	4H	1W	
265.18	268.22	3.04	2.95	97	1.33	44	--	4H	1W	
268.22	271.27	3.05	2.99	98	1.40	46	--	4H	1W	
271.27	274.32	3.05	2.98	98	1.11	36	--	4H	1W	
274.32	275.84	1.52	1.51	99	0.30	20	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
275.84	278.89	3.05	2.98	98	1.05	34	--	4H	1W	
278.89	281.94	3.05	3	98	2.07	68	--	4H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
5	0.299	OVB	
6	0	OVB	rubble
7	0.261	GRD	
8	0.197	GRD	
9	0.371	GRD	
10	0.318	GRD	
11	0.191	GRD	
12	0.21	GRD	
13	0	QFP	
14	0.046	QFP	
15	0	QFP	rubble
16	0	QFP	rubble
17	0	QFP	rubble
18	0.02	QFP	
19	0	QFP	rubble
20	0	QFP	rubble
21	0.048	QFP	
22	0.132	QFP	
23	0.084	QFP	
24	0.053	QFP	
25	0.126	QFP	
26	0.262	QFP	
27	0.175	QFP	
28	0.086	QFP	
29	0.142	QFP	
30	0.144	QFP	
31	0.173	QFP	
32	0.142	QFP	
33	0	QFP	rubble

Depth (m)	Magnetic Susceptibility	Unit	Comments
34	0.057	QFP	
35	0.15	QFP	
36	0.2	QFP	
37	0.158	QFP	
38	0.102	QFP	
39	0	QFP	rubble
40	0.383	QFP	
41	0.333	QFP	
42	0.106	QFP	
43	0.107	QFP	
44	0.111	QFP	
45	0.213	QFP	
46	0.166	QFP	
47	0.24	QFP	
48	0.237	QFP	
49	0.054	QFP	
50	0.132	QFP	
51	0.064	QFP	
52	0.128	QFP	
53	0.138	QFP	
54	0.225	QFP	
55	0.153	QFP	
56	0	QFP	rubble
57	0.218	GRD	
58	0.424	GRD	
59	0	GRD	rubble
60	0.823	GRD	
61	29.99	GRD	
62	1.07	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
63	12.51	GRD	
64	14.31	GRD	
65	11.65	GRD	
66	4.987	GRD	
67	0.794	GRD	
68	0	GRD	rubble
69	0	GRD	rubble
70	0	GRD	rubble
71	1.328	GRD	
72	5.583	GRD	
73	0.21	GRD	
74	0	GRD	rubble
75	0	GRD	rubble
76	0	GRD	rubble
77	2.398	GRD	
78	46.78	GRD	
79	38.38	GRD	
80	0	GRD	rubble
81	46.58	GRD	
82	13.02	GRD	
83	1.163	GRD	
84	0	GRD	rubble
85	26.85	GRD	
86	46.17	GRD	
86	46.17	GRD	
87	29.26	GRD	
88	0.52	GRD	
89	1.743	GRD	
90	0	GRD	rubble
91	0	GRD	rubble
92	0.681	GRD	
93	0	GRD	rubble
94	0	GRD	rubble
94	0	GRD	rubble
95	0	GRD	rubble
96	0.489	GRD	
97	0.347	GRD	
98	0.334	GRD	
99	0.281	GRD	
100	0	GRD	rubble
100	0	FLR	rubble
101	0.209	FLR	gouge
102	0.268	FLR	gouge
103	0.646	FLR	gouge
104	0.363	FLR	gouge
105	0.414	FLR	
105	0.414	GRD	
106	0.31	GRD	
107	0.255	GRD	
108	20.13	GRD	
109	0.627	GRD	
110	0.659	GRD	
111	17.42	GRD	
112	0	GRD	rubble
113	32.31	GRD	
114	37.66	GRD	
115	77.2	GRD	
116	13.89	GRD	
117	0	GRD	rubble
118	0.486	GRD	
119	0.467	GRD	
120	1.04	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	0.841	GRD	
122	0.667	GRD	
123	64.09	GRD	
124	0.796	GRD	
125	0.305	GRD	
126	0	GRD	rubble
127	0.379	GRD	
128	9.454	GRD	
129	0.542	GRD	
130	0.419	GRD	
131	0	FLR	gougey rubble
132	2.191	GRD	
133	40.88	GRD	
134	45.38	GRD	
135	67.31	GRD	
136	19.41	GRD	
137	72.39	GRD	
138	43.57	GRD	
139	0.804	GRD	
140	16.73	GRD	
141	0	GRD	rubble
142	4.207	GRD	
143	14.63	GRD	
144	0	GRD	gouge
145	43.33	GRD	
146	12.51	GRD	
147	49.3	GRD	
148	0.638	GRD	
148	0.638	GRD	
149	0.975	GRD	
150	35.94	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
151	0.692	GRD	
152	0.555	GRD	
153	1.481	GRD	
154	9.74	GRD	
155	0.339	GRD	
156	0.378	BXA	
157	0.558	GRD	
158	0.282	GRD	
159	0.554	GRD	
160	0.519	GRD	
161	0.277	GRD	
162	0.455	GRD	
163	0.596	GRD	
164	2.373	GRD	
165	0.456	GRD	
166	0.57	GRD	
167	22.56	GRD	
168	0.815	GRD	
169	2.767	GRD	
170	33.22	GRD	
171	24.65	GRD	
172	15.68	GRD	
173	0.563	GRD	
174	1.877	GRD	
175	0.427	GRD	
176	0.316	GRD	
177	0.237	GRD	
178	0.267	GRD	
179	0.324	GRD	
180	0.278	GRD	
181	0.331	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
182	15.97	GRD	
183	0.538	GRD	
183	0.538	GRD	
184	0.61	GRD	
185	7.405	GRD	
186	2.651	GRD	
187	0.421	GRD	
188	0.587	GRD	
189	3.217	GRD	
190	17.36	GRD	
191	0.499	GRD	
192	0.626	GRD	
193	0.331	GRD	
194	0.562	GRD	
195	0.459	GRD	
196	3.292	GRD	
197	1.061	GRD	
198	1.649	GRD	
199	1.256	GRD	
200	0.384	GRD	
201	0.203	GRD	
202	0.875	GRD	
203	31.67	GRD	
204	0.808	GRD	
205	12.32	GRD	
206	0.72	GRD	
207	3.571	GRD	
208	2.71	GRD	
209	0.491	GRD	
210	19.73	GRD	
211	10.08	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
212	0.788	GRD	
213	30.78	GRD	
214	21.65	GRD	
215	0.624	GRD	
216	2.716	GRD	
217	5.172	GRD	
218	1.197	GRD	
219	2.04	GRD	
220	6.61	GRD	
221	8.988	GRD	
222	0.476	GRD	
223	1.429	GRD	
224	19.59	GRD	
225	9.539	GRD	
226	0.683	GRD	
227	0.474	GRD	
228	0.884	GRD	
229	0.68	GRD	
230	0.438	GRD	
231	13.34	GRD	
232	0.996	GRD	
233	0.463	GRD	
234	0.503	GRD	
235	1.235	GRD	
236	0.471	GRD	
237	0.687	GRD	
238	6.529	GRD	
239	27.79	GRD	
240	12.4	GRD	
241	0.319	GRD	
242	0.267	GRD	clay/ rubble zone

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
243	0.163	GRD	
244	4.059	GRD	
245	0.279	GRD	
245	0.279	GRD	
246	0.232	GRD	
247	7.639	GRD	
248	5.937	GRD	
249	0.48	GRD	
250	0.427	GRD	
251	15.97	GRD	
252	0.419	GRD	
253	1.844	GRD	
254	35.86	GRD	
255	9.607	GRD	
256	21.49	GRD	
257	2.787	GRD	
258	10.93	GRD	
259	0.431	GRD	
260	0.307	GRD	
261	0.372	GRD	
262	0.123	GRD	
263	1.004	GRD	
264	0.458	GRD	
265	2.94	GRD	
266	26.15	GRD	
267	9.863	GRD	
268	38.35	GRD	
269	5.912	GRD	
270	0.289	GRD	
271	41.31	GRD	
272	35.41	GRD	
273	36.08	GRD	
274	14.63	GRD	
275	15.51	GRD	
276	5.399	GRD	
277	34.77	GRD	
278	6.798	GRD	
279	0.369	GRD	
280	36.59	GRD	
281	0.393	GRD	

KL -20-483

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W596793	☐	20-048	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596846	☐	20-049	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596839	☐	20-049	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596833	☐	20-049	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700746	☐	20-036	High Grade	Klaza20 20-C	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596799	☐	20-048	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596768	☐	20-047	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596759	☐	20-047	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596752	☐	20-047	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596632	☐	20-042	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596717	☐	20-045	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596711	☐	20-045	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596693	☐	20-043	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596825	☐	20-048	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596676	☐	20-043	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596671	☐	20-043	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596660	☐	20-042	Low Grade		☑	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W596638	☐	20-042	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596736	☐	20-045	Low Grade	Klaza2020-B	☐	☐	☐
6.80	8.30	1.50	GRD, OVB	1.18	79	W596629	☐	20-042	Low Grade		☐	☐	☐
8.30	9.80	1.50	GRD	1.14	76	W596630	☐	20-042	Low Grade		☐	☐	☐
9.80	11.30	1.50	GRD	1.33	89	W596631	☐	20-042	Low Grade		☐	☐	☐
11.30	12.80	1.50	GRD	1.16	77	W596633	☐	20-042	Low Grade		☐	☐	☐
12.80	14.30	1.50	GRD	0.99	66	W596634	☐	20-042	Low Grade		☐	☐	☐
14.30	15.80	1.50	QFP	0.99	66	W596635	☐	20-042	Low Grade		☐	☐	☐
15.80	17.30	1.50	QFP	0.82	55	W596636	☐	20-042	Low Grade		☐	☐	☐
17.30	18.80	1.50	QFP	1.07	71	W596637	☐	20-042	Low Grade		☐	☐	☐
18.80	20.30	1.50	QFP	1.16	77	W596639	☐	20-042	Low Grade		☐	☐	☐
20.30	21.79	1.49	QFP	1.28	86	W596640	☐	20-042	Low Grade		☐	☐	☐
21.79	23.00	1.21	QFP	1.21	100	W596641	☐	20-042	Low Grade		☐	☐	☐
23.00	24.50	1.50	QFP	1.38	92	W596642	☐	20-042	Low Grade		☐	☐	☐
24.50	26.00	1.50	QFP	1.46	97	W596643	☐	20-042	Low Grade		☐	☐	☐
26.00	27.50	1.50	QFP	1.48	99	W596644	☐	20-042	Low Grade		☐	☐	☐
26.00	27.50	1.50	QFP	1.45	97	W596645	☐	20-042	Low Grade		☐	☑	☐
27.50	29.00	1.50	QFP	1.42	95	W596646	☐	20-042	Low Grade		☐	☐	☐
29.00	30.50	1.50	QFP	1.14	76	W596647	☐	20-042	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
29.00	30.50	1.50	QFP	1.14	76	W596648	☐	20-042	Low Grade		☐	☐	☑
30.50	32.00	1.50	QFP	1.00	67	W596649	☐	20-042	Low Grade		☐	☐	☐
32.00	33.00	1.00	QFP	0.95	95	W596650	☐	20-042	Low Grade		☐	☐	☐
33.00	34.10	1.10	QFP	0.91	83	W596651	☐	20-042	Low Grade		☐	☐	☐
34.10	35.50	1.40	QFP	1.33	95	W596652	☐	20-042	Low Grade		☐	☐	☐
35.50	37.00	1.50	QFP	1.41	94	W596653	☐	20-042	Low Grade		☐	☐	☐
37.00	38.35	1.35	QFP	1.23	91	W596654	☐	20-042	Low Grade		☐	☐	☐
38.35	39.00	0.65	QFP	0.63	97	W596655	☐	20-042	Low Grade		☐	☐	☐
39.00	40.00	1.00	QFP	0.82	82	W596656	☐	20-042	Low Grade		☐	☐	☐
40.00	41.10	1.10	QFP	0.96	87	W596657	☐	20-042	Low Grade		☐	☐	☐
41.10	42.60	1.50	QFP	1.24	83	W596658	☐	20-042	Low Grade		☐	☐	☐
42.60	44.00	1.40	QFP	1.34	96	W596659	☐	20-042	Low Grade		☐	☐	☐
44.00	45.50	1.50	QFP	1.34	89	W596661	☐	20-042	Low Grade		☐	☐	☐
45.50	47.00	1.50	QFP	1.40	93	W596662	☐	20-042	Low Grade		☐	☐	☐
47.00	48.50	1.50	QFP	1.43	95	W596663	☐	20-042	Low Grade		☐	☐	☐
48.50	50.00	1.50	QFP	1.45	97	W596664	☐	20-042	Low Grade		☐	☐	☐
50.00	51.50	1.50	QFP	1.41	94	W596665	☐	20-042	Low Grade		☐	☐	☐
51.50	53.00	1.50	QFP	1.14	76	W596666	☐	20-042	Low Grade		☐	☐	☐
53.00	54.00	1.00	QFP	0.71	71	W596667	☐	20-043	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
54.00	55.50	1.50	QFP	0.98	65	W596668	☐	20-043	Low Grade		☐	☐	☐
55.50	56.50	1.00	QFP	0.87	87	W596669	☐	20-043	Low Grade		☐	☐	☐
56.50	58.00	1.50	QFP, GRD	1.07	71	W596670	☐	20-043	Low Grade		☐	☐	☐
58.00	59.50	1.50	GRD	1.35	90	W596672	☐	20-043	Low Grade		☐	☐	☐
59.50	61.00	1.50	GRD	1.24	83	W596673	☐	20-043	Low Grade		☐	☐	☐
61.00	62.50	1.50	GRD	1.36	91	W596674	☐	20-043	Low Grade		☐	☐	☐
62.50	64.00	1.50	GRD	1.29	86	W596675	☐	20-043	Low Grade		☐	☐	☐
64.00	65.50	1.50	GRD	1.17	78	W596677	☐	20-043	Low Grade		☐	☐	☐
65.50	67.00	1.50	GRD	1.18	79	W596678	☐	20-043	Low Grade		☐	☐	☐
67.00	68.50	1.50	GRD	1.32	88	W596727	☐	20-045	Low Grade		☐	☐	☐
68.50	70.00	1.50	GRD	1.13	75	W596679	☐	20-043	Low Grade		☐	☐	☐
70.00	71.50	1.50	GRD	1.14	76	W596680	☐	20-043	Low Grade		☐	☐	☐
71.50	73.00	1.50	GRD	1.50	100	W596681	☐	20-043	Low Grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.35	90	W596682	☐	20-043	Low Grade		☐	☐	☐
74.50	76.00	1.50	GRD	1.31	87	W596683	☐	20-043	Low Grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.41	94	W596684	☐	20-043	Low Grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.41	94	W596685	☐	20-043	Low Grade		☐	☑	☐
77.50	79.00	1.50	GRD	1.50	100	W596686	☐	20-043	Low Grade		☐	☐	☐
79.00	80.50	1.50	GRD	1.23	82	W596687	☐	20-043	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
80.50	82.00	1.50	GRD	1.50	100	W596688	☐	20-043	Low Grade		☐	☐	☐
82.00	83.50	1.50	GRD	1.50	100	W596689	☐	20-043	Low Grade		☐	☐	☐
83.50	85.00	1.50	GRD	1.25	83	W596690	☐	20-043	Low Grade		☐	☐	☐
85.00	86.50	1.50	GRD	1.32	88	W596691	☐	20-043	Low Grade		☐	☐	☐
86.50	88.00	1.50	GRD	1.27	85	W596692	☐	20-043	Low Grade		☐	☐	☐
88.00	89.50	1.50	GRD	1.41	94	W596694	☐	20-043	Low Grade		☐	☐	☐
89.50	91.00	1.50	GRD	1.33	89	W596695	☐	20-043	Low Grade		☐	☐	☐
91.00	92.50	1.50	GRD	1.50	100	W596696	☐	20-043	Low Grade		☐	☐	☐
92.50	94.00	1.50	GRD	1.02	68	W596728	☐	20-045	Low Grade		☐	☐	☐
94.00	95.50	1.50	GRD, GRD	1.27	85	W596697	☐	20-043	Low Grade		☐	☐	☐
94.00	95.50	1.50	GRD, GRD	1.27	85	W596698	☐	20-043	Low Grade		☐	☐	☑
95.50	97.00	1.50	GRD	1.37	91	W596699	☐	20-043	Low Grade		☐	☐	☐
97.00	98.50	1.50	GRD	1.20	80	W596700	☐	20-043	Low Grade		☐	☐	☐
98.50	100.00	1.50	GRD	0.97	65	W596701	☐	20-043	Low Grade		☐	☐	☐
100.00	101.50	1.50	FLR, GRD	0.67	45	W596702	☐	20-043	Low Grade		☐	☐	☐
101.50	103.00	1.50	FLR	1.13	75	W596703	☐	20-043	Low Grade		☐	☐	☐
103.00	104.50	1.50	FLR	1.45	97	W596704	☐	20-043	Low Grade		☐	☐	☐
104.50	106.00	1.50	FLR	1.50	100	W596705	☐	20-043	Low Grade		☐	☐	☐
106.00	107.50	1.50	GRD	1.50	100	W596706	☐	20-043	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
107.50	109.00	1.50	GRD	1.50	100	W596707	☐	20-045	Low Grade		☐	☐	☐
109.00	110.50	1.50	GRD	1.50	100	W596708	☐	20-045	Low Grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.34	89	W596709	☐	20-045	Low Grade		☐	☐	☐
112.00	113.50	1.50	GRD	1.50	100	W596710	☐	20-045	Low Grade		☐	☐	☐
113.50	115.00	1.50	GRD	1.39	93	W596712	☐	20-045	Low Grade		☐	☐	☐
115.00	116.50	1.50	GRD	1.39	93	W596713	☐	20-045	Low Grade		☐	☐	☐
116.50	118.00	1.50	GRD	1.05	70	W596714	☐	20-045	Low Grade		☐	☐	☐
118.00	119.50	1.50	GRD	1.31	87	W596715	☐	20-045	Low Grade		☐	☐	☐
119.50	121.00	1.50	GRD	1.38	92	W596716	☐	20-045	Low Grade		☐	☐	☐
121.00	122.50	1.50	GRD	1.39	93	W596718	☐	20-045	Low Grade		☐	☐	☐
122.50	124.00	1.50	GRD	1.38	92	W596719	☐	20-045	Low Grade		☐	☐	☐
124.00	125.50	1.50	GRD	1.08	72	W596720	☐	20-045	Low Grade		☐	☐	☐
125.50	127.00	1.50	GRD	1.22	81	W596721	☐	20-045	Low Grade		☐	☐	☐
127.00	128.50	1.50	GRD	1.12	75	W596722	☐	20-045	Low Grade		☐	☐	☐
127.00	128.50	1.50	GRD	1.12	75	W596723	☐	20-045	Low Grade		☐	☐	☑
128.50	129.25	0.75	GRD	0.65	87	W596724	☐	20-045	Low Grade		☐	☐	☐
129.25	130.00	0.75	GRD	0.74	99	b700745	☐	20-036	High Grade		☐	☐	☐
130.00	130.54	0.54	GRD	0.48	89	b700747	☐	20-036	High Grade		☐	☐	☐
130.54	131.50	0.96	FLR	0.87	91	b700748	☐	20-036	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
131.50	132.00	0.50	FLR	0.50	100	b700749	☐	20-036	High Grade		☐	☐	☐
132.00	133.50	1.50	GRD	1.50	100	W596725	☐	20-045	Low Grade		☐	☐	☐
133.50	135.00	1.50	GRD	1.50	100	W596726	☐	20-045	Low Grade		☐	☐	☐
135.00	136.50	1.50	GRD	1.37	91	W596729	☐	20-045	Low Grade		☐	☐	☐
136.50	138.00	1.50	GRD	1.45	97	W596730	☐	20-045	Low Grade		☐	☐	☐
136.50	138.00	1.50	GRD	1.45	97	W596731	☐	20-045	Low Grade		☐	☑	☐
138.00	139.00	1.00	GRD	1.00	100	W596732	☐	20-045	Low Grade		☐	☐	☐
139.00	139.50	0.50	GRD	0.50	100	W596733	☐	20-045	Low Grade		☐	☐	☐
139.50	141.00	1.50	GRD	0.96	64	W596734	☐	20-045	Low Grade		☐	☐	☐
141.00	142.50	1.50	GRD	1.35	90	W596735	☐	20-045	Low Grade		☐	☐	☐
142.50	144.00	1.50	GRD	1.24	83	W596737	☐	20-045	Low Grade		☐	☐	☐
144.00	145.50	1.50	GRD	1.24	83	W596738	☐	20-045	Low Grade		☐	☐	☐
145.50	147.00	1.50	GRD	1.38	92	W596739	☐	20-045	Low Grade		☐	☐	☐
147.00	148.00	1.00	GRD	0.86	86	W596740	☐	20-045	Low Grade		☐	☐	☐
148.00	149.00	1.00	GRD, GRD	0.94	94	W596741	☐	20-045	Low Grade		☐	☐	☐
149.00	150.50	1.50	GRD	1.46	97	W596742	☐	20-045	Low Grade		☐	☐	☐
150.50	152.00	1.50	GRD	1.40	93	W596743	☐	20-045	Low Grade		☐	☐	☐
152.00	153.50	1.50	GRD	1.28	85	W596744	☐	20-045	Low Grade		☐	☐	☐
153.50	155.00	1.50	GRD	1.27	85	W596745	☐	20-045	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
155.00	156.06	1.06	GRD	0.93	88	W596746	☐	20-045	Low Grade		☐	☐	☐
156.06	156.69	0.63	QFP	0.53	84	W596747	☐	20-047	Low Grade		☐	☐	☐
156.69	158.00	1.31	QFP, GRD	1.31	100	W596748	☐	20-047	Low Grade		☐	☐	☐
158.00	159.50	1.50	GRD	1.47	98	W596749	☐	20-047	Low Grade		☐	☐	☐
159.50	161.00	1.50	GRD	1.50	100	W596750	☐	20-047	Low Grade		☐	☐	☐
161.00	162.50	1.50	GRD	1.50	100	W596751	☐	20-047	Low Grade		☐	☐	☐
162.50	164.00	1.50	GRD	1.47	98	W596753	☐	20-047	Low Grade		☐	☐	☐
164.00	165.50	1.50	GRD	1.40	93	W596754	☐	20-047	Low Grade		☐	☐	☐
165.50	167.00	1.50	GRD	1.48	99	W596755	☐	20-047	Low Grade		☐	☐	☐
167.00	168.50	1.50	GRD	1.48	99	W596756	☐	20-047	Low Grade		☐	☐	☐
168.50	170.00	1.50	GRD	1.28	85	W596757	☐	20-047	Low Grade		☐	☐	☐
170.00	171.50	1.50	GRD	1.44	96	W596758	☐	20-047	Low Grade		☐	☐	☐
171.50	173.00	1.50	GRD	1.48	99	W596760	☐	20-047	Low Grade		☐	☐	☐
173.00	174.50	1.50	GRD	1.43	95	W596761	☐	20-047	Low Grade		☐	☐	☐
173.00	174.50	1.50	GRD	1.43	95	W596762	☐	20-047	Low Grade		☐	☑	☐
174.50	175.20	0.70	GRD	0.69	99	W596763	☐	20-047	Low Grade		☐	☐	☐
175.20	175.75	0.55	GRD	0.54	98	W596764	☐	20-047	Low Grade		☐	☐	☐
175.75	177.25	1.50	GRD	1.42	95	W596765	☐	20-047	Low Grade		☐	☐	☐
177.25	178.75	1.50	GRD	1.50	100	W596766	☐	20-047	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
178.75	179.70	0.95	GRD	0.95	100	W596767	☐	20-047	Low Grade		☐	☐	☐
179.70	180.20	0.50	GRD	0.48	96	W596769	☐	20-047	Low Grade		☐	☐	☐
180.20	180.90	0.70	GRD	0.65	93	W596770	☐	20-047	Low Grade		☐	☐	☐
180.90	182.40	1.50	GRD	1.43	95	W596771	☐	20-047	Low Grade		☐	☐	☐
182.40	182.90	0.50	GRD	0.50	100	W596772	☐	20-047	Low Grade		☐	☐	☐
182.90	184.40	1.50	GRD	1.47	98	W596773	☐	20-047	Low Grade		☐	☐	☐
184.40	185.90	1.50	GRD	1.48	99	W596774	☐	20-047	Low Grade		☐	☐	☐
185.90	187.00	1.10	GRD	1.08	98	W596775	☐	20-047	Low Grade		☐	☐	☐
185.90	187.00	1.10	GRD	1.08	98	W596776	☐	20-047	Low Grade		☐	☐	☑
187.00	188.50	1.50	GRD	1.38	92	W596777	☐	20-047	Low Grade		☐	☐	☐
188.50	190.00	1.50	GRD	1.46	97	W596778	☐	20-047	Low Grade		☐	☐	☐
190.00	191.50	1.50	GRD	1.44	96	W596779	☐	20-047	Low Grade		☐	☐	☐
191.50	193.00	1.50	GRD	1.41	94	W596780	☐	20-047	Low Grade		☐	☐	☐
193.00	194.50	1.50	GRD	1.35	90	W596781	☐	20-047	Low Grade		☐	☐	☐
194.50	196.00	1.50	GRD	1.48	99	W596782	☐	20-047	Low Grade		☐	☐	☐
196.00	197.50	1.50	GRD	1.49	99	W596783	☐	20-047	Low Grade		☐	☐	☐
197.50	199.00	1.50	GRD	1.42	95	W596784	☐	20-047	Low Grade		☐	☐	☐
199.00	200.50	1.50	GRD	1.40	93	W596785	☐	20-047	Low Grade		☐	☐	☐
200.50	201.50	1.00	GRD	0.82	82	W596786	☐	20-047	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
201.50	202.00	0.50	GRD	0.47	94	W596787	☐	20-048	Low Grade		☐	☐	☐
202.00	203.50	1.50	GRD	1.46	97	W596788	☐	20-048	Low Grade		☐	☐	☐
203.50	205.00	1.50	GRD	1.43	95	W596789	☐	20-048	Low Grade		☐	☐	☐
205.00	206.50	1.50	GRD	1.37	91	W596790	☐	20-048	Low Grade		☐	☐	☐
206.50	208.00	1.50	GRD	1.48	99	W596791	☐	20-048	Low Grade		☐	☐	☐
208.00	209.50	1.50	GRD	1.48	99	W596792	☐	20-048	Low Grade		☐	☐	☐
209.50	211.00	1.50	GRD	1.48	99	W596794	☐	20-048	Low Grade		☐	☐	☐
211.00	212.50	1.50	GRD	1.50	100	W596795	☐	20-048	Low Grade		☐	☐	☐
212.50	214.00	1.50	GRD	1.50	100	W596796	☐	20-048	Low Grade		☐	☐	☐
214.00	215.50	1.50	GRD	1.50	100	W596797	☐	20-048	Low Grade		☐	☐	☐
215.50	217.00	1.50	GRD	1.45	97	W596798	☐	20-048	Low Grade		☐	☐	☐
217.00	218.50	1.50	GRD	1.50	100	W596800	☐	20-048	Low Grade		☐	☐	☐
218.50	220.00	1.50	GRD	1.50	100	W596801	☐	20-048	Low Grade		☐	☐	☐
220.00	221.50	1.50	GRD	1.50	100	W596802	☐	20-048	Low Grade		☐	☐	☐
221.50	223.00	1.50	GRD	1.50	100	W596803	☐	20-048	Low Grade		☐	☐	☐
223.00	224.50	1.50	GRD	1.50	100	W596804	☐	20-048	Low Grade		☐	☐	☐
224.50	226.00	1.50	GRD	1.49	99	W596805	☐	20-048	Low Grade		☐	☐	☐
226.00	227.50	1.50	GRD	1.50	100	W596806	☐	20-048	Low Grade		☐	☐	☐
227.50	229.00	1.50	GRD	1.50	100	W596807	☐	20-048	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
229.00	230.50	1.50	GRD	1.50	100	W596808	☐	20-048	Low Grade		☐	☐	☐
230.50	232.00	1.50	GRD	1.50	100	W596809	☐	20-048	Low Grade		☐	☐	☐
230.50	232.00	1.50	GRD	1.50	100	W596810	☐	20-048	Low Grade		☐	☑	☐
232.00	233.50	1.50	GRD	1.50	100	W596811	☐	20-048	Low Grade		☐	☐	☐
233.50	235.00	1.50	GRD	1.50	100	W596812	☐	20-048	Low Grade		☐	☐	☐
235.00	236.50	1.50	GRD	1.38	92	W596813	☐	20-048	Low Grade		☐	☐	☐
236.50	237.05	0.55	GRD	0.49	89	W596814	☐	20-048	Low Grade		☐	☐	☐
237.05	238.50	1.45	GRD	1.41	97	W596815	☐	20-048	Low Grade		☐	☐	☐
238.50	240.00	1.50	GRD	1.50	100	W596816	☐	20-048	Low Grade		☐	☐	☐
240.00	241.00	1.00	GRD	0.95	95	W596817	☐	20-048	Low Grade		☐	☐	☐
241.00	242.50	1.50	GRD	1.45	97	W596818	☐	20-048	Low Grade		☐	☐	☐
242.50	244.00	1.50	GRD	1.35	90	W596819	☐	20-048	Low Grade		☐	☐	☐
242.50	244.00	1.50	GRD	1.35	90	W596820	☐	20-048	Low Grade		☐	☐	☑
244.00	245.00	1.00	GRD	0.79	79	W596821	☐	20-048	Low Grade		☐	☐	☐
245.00	245.50	0.50	GRD, GRD	0.50	100	W596822	☐	20-048	Low Grade		☐	☐	☐
245.50	246.00	0.50	GRD	0.49	98	W596823	☐	20-048	Low Grade		☐	☐	☐
246.00	246.50	0.50	GRD	0.50	100	W596824	☐	20-048	Low Grade		☐	☐	☐
246.50	248.00	1.50	GRD	1.50	100	W596826	☐	20-048	Low Grade		☐	☐	☐
248.00	249.50	1.50	GRD	1.50	100	W596827	☐	20-049	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
249.50	251.00	1.50	GRD	1.50	100	W596828	☐	20-049	Low Grade		☐	☐	☐
251.00	252.50	1.50	GRD	1.48	99	W596829	☐	20-049	Low Grade		☐	☐	☐
252.50	254.00	1.50	GRD	1.50	100	W596830	☐	20-049	Low Grade		☐	☐	☐
254.00	255.50	1.50	GRD	1.50	100	W596831	☐	20-049	Low Grade		☐	☐	☐
255.50	257.00	1.50	GRD	1.50	100	W596832	☐	20-049	Low Grade		☐	☐	☐
257.00	258.50	1.50	GRD	1.48	99	W596834	☐	20-049	Low Grade		☐	☐	☐
258.50	259.50	1.00	GRD	1.00	100	W596835	☐	20-049	Low Grade		☐	☐	☐
259.50	260.00	0.50	GRD	0.42	84	W596836	☐	20-049	Low Grade		☐	☐	☐
260.00	261.50	1.50	GRD	1.49	99	W596837	☐	20-049	Low Grade		☐	☐	☐
261.50	263.00	1.50	GRD	1.50	100	W596838	☐	20-049	Low Grade		☐	☐	☐
263.00	264.50	1.50	GRD	1.50	100	W596840	☐	20-049	Low Grade		☐	☐	☐
264.50	266.00	1.50	GRD	1.48	99	W596841	☐	20-049	Low Grade		☐	☐	☐
264.50	266.00	1.50	GRD	1.48	99	W596842	☐	20-049	Low Grade		☐	☑	☐
266.00	267.50	1.50	GRD	1.46	97	W596843	☐	20-049	Low Grade		☐	☐	☐
267.50	269.00	1.50	GRD	1.50	100	W596844	☐	20-049	Low Grade		☐	☐	☐
269.00	270.50	1.50	GRD	1.50	100	W596845	☐	20-049	Low Grade		☐	☐	☐
270.50	272.00	1.50	GRD	1.50	100	W596847	☐	20-049	Low Grade		☐	☐	☐
272.00	273.50	1.50	GRD	1.49	99	W596848	☐	20-049	Low Grade		☐	☐	☐
273.50	275.00	1.50	GRD	1.50	100	W596849	☐	20-049	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
275.00	276.50	1.50	GRD	1.50	100	W596850	☐	20-049	Low Grade		☐	☐	☐
276.50	278.00	1.50	GRD	1.43	95	W596851	☐	20-049	Low Grade		☐	☐	☐
278.00	278.78	0.78	GRD	0.75	96	W596852	☐	20-049	Low Grade		☐	☐	☐
278.78	279.28	0.50	GRD	0.49	98	W596853	☐	20-049	Low Grade		☐	☐	☐
279.28	280.50	1.22	GRD	1.22	100	W596854	☐	20-049	Low Grade		☐	☐	☐
280.50	281.94	1.44	GRD	1.44	100	W596855	☐	20-049	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700746	0.00	0.00	11.95	50	☐	☐	☐	☑ Klaza2020-C	klaza c
20-042	W596632	0.00	0.00	0.65	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-042	W596638	0.00	0.00	2.86	210	☐	☐	☐	☑ Klaza2020-B	klaza b
20-042	W596660	0.00	0.00	0.01	30	☐	☐	☑	☐	blank
20-043	W596671	0.00	0.00	0.61	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-043	W596676	0.00	0.00	3.04	350	☐	☐	☐	☑ Klaza2020-B	klaza b
20-043	W596693	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-045	W596711	0.00	0.00	2.85	200	☐	☐	☐	☑ Klaza2020-B	klaza b
20-045	W596717	0.00	0.00	0.01	30	☐	☐	☑	☐	blank
20-045	W596736	0.00	0.00	2.97	140	☐	☐	☐	☑ Klaza2020-B	
20-047	W596752	0.00	0.00	2.82	370	☐	☐	☐	☑ Klaza2020-B	
20-047	W596759	0.00	0.00	2.86	590	☐	☐	☐	☑ Klaza2020-B	
20-047	W596768	0.00	0.00	0.01	40	☐	☐	☑	☐	
20-048	W596793	0.00	0.00	2.95	80	☐	☐	☐	☑ Klaza2020-B	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-048	W596799	0.00	0.00	0.67	240	☐	☐	☐	☑ Klaza2020-A	klaza a
20-048	W596825	0.00	0.00	0.01	20	☐	☐	☑	☐	blank
20-049	W596833	0.00	0.00	0.65	760	☐	☐	☐	☑ Klaza2020-A	klaza a
20-049	W596839	0.00	0.00	2.92	620	☐	☐	☐	☑ Klaza2020-B	klaza b
20-049	W596846	0.00	0.00	0.01	30	☐	☐	☑	☐	blank
20-042	W596629	6.80	8.30	0.02	700	☐	☐	☐	☐	
20-042	W596630	8.30	9.80	0.02	630	☐	☐	☐	☐	
20-042	W596631	9.80	11.30	0.02	2210	☐	☐	☐	☐	
20-042	W596633	11.30	12.80	0.03	600	☐	☐	☐	☐	
20-042	W596634	12.80	14.30	0.10	330	☐	☐	☐	☐	
20-042	W596635	14.30	15.80	0.31	370	☐	☐	☐	☐	
20-042	W596636	15.80	17.30	0.15	670	☐	☐	☐	☐	
20-042	W596637	17.30	18.80	0.13	700	☐	☐	☐	☐	
20-042	W596639	18.80	20.30	0.11	440	☐	☐	☐	☐	
20-042	W596640	20.30	21.79	0.17	540	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-042	W596641	21.79	23.00	0.06	180	☐	☐	☐	☐	
20-042	W596642	23.00	24.50	0.04	520	☐	☐	☐	☐	
20-042	W596643	24.50	26.00	0.03	540	☐	☐	☐	☐	
20-042	W596644	26.00	27.50	0.03	600	☐	☐	☐	☐	
20-042	W596645	26.00	27.50	0.03	620	☑	☐	☐	☐	quarter dup
20-042	W596646	27.50	29.00	0.05	570	☐	☐	☐	☐	
20-042	W596647	29.00	30.50	0.03	1290	☐	☐	☐	☐	
20-042	W596648	29.00	30.50	0.03	1190	☐	☑	☐	☐	coarse dup
20-042	W596649	30.50	32.00	0.03	760	☐	☐	☐	☐	
20-042	W596650	32.00	33.00	0.09	750	☐	☐	☐	☐	
20-042	W596651	33.00	34.10	0.06	670	☐	☐	☐	☐	
20-042	W596652	34.10	35.50	0.03	690	☐	☐	☐	☐	
20-042	W596653	35.50	37.00	0.03	620	☐	☐	☐	☐	
20-042	W596654	37.00	38.35	0.02	360	☐	☐	☐	☐	
20-042	W596655	38.35	39.00	0.04	430	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-042	W596656	39.00	40.00	0.02	1200	☐	☐	☐	☐	
20-042	W596657	40.00	41.10	0.01	780	☐	☐	☐	☐	
20-042	W596658	41.10	42.60	0.04	1880	☐	☐	☐	☐	
20-042	W596659	42.60	44.00	0.02	1640	☐	☐	☐	☐	
20-042	W596661	44.00	45.50	0.02	1550	☐	☐	☐	☐	
20-042	W596662	45.50	47.00	0.02	1580	☐	☐	☐	☐	
20-042	W596663	47.00	48.50	0.03	750	☐	☐	☐	☐	
20-042	W596664	48.50	50.00	0.02	910	☐	☐	☐	☐	
20-042	W596665	50.00	51.50	0.02	520	☐	☐	☐	☐	
20-042	W596666	51.50	53.00	0.03	500	☐	☐	☐	☐	
20-043	W596667	53.00	54.00	0.01	910	☐	☐	☐	☐	
20-043	W596668	54.00	55.50	0.05	870	☐	☐	☐	☐	
20-043	W596669	55.50	56.50	0.05	810	☐	☐	☐	☐	
20-043	W596670	56.50	58.00	0.07	500	☐	☐	☐	☐	
20-043	W596672	58.00	59.50	0.05	1880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-043	W596673	59.50	61.00	0.05	2010	☐	☐	☐	☐	
20-043	W596674	61.00	62.50	0.04	1660	☐	☐	☐	☐	
20-043	W596675	62.50	64.00	0.05	2040	☐	☐	☐	☐	
20-043	W596677	64.00	65.50	0.04	2080	☐	☐	☐	☐	
20-043	W596678	65.50	67.00	0.07	1340	☐	☐	☐	☐	
20-045	W596727	67.00	68.50	0.09	1220	☐	☐	☐	☐	
20-043	W596679	68.50	70.00	0.16	320	☐	☐	☐	☐	
20-043	W596680	70.00	71.50	0.06	790	☐	☐	☐	☐	
20-043	W596681	71.50	73.00	0.11	1030	☐	☐	☐	☐	
20-043	W596682	73.00	74.50	0.18	730	☐	☐	☐	☐	
20-043	W596683	74.50	76.00	0.04	2040	☐	☐	☐	☐	
20-043	W596684	76.00	77.50	0.03	2340	☐	☐	☐	☐	
20-043	W596685	76.00	77.50	0.03	2340	☑	☐	☐	☐	quarter dup
20-043	W596686	77.50	79.00	0.04	2530	☐	☐	☐	☐	
20-043	W596687	79.00	80.50	0.04	2100	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-043	W596688	80.50	82.00	0.02	2270	☐	☐	☐	☐	
20-043	W596689	82.00	83.50	0.09	2060	☐	☐	☐	☐	
20-043	W596690	83.50	85.00	0.04	2180	☐	☐	☐	☐	
20-043	W596691	85.00	86.50	0.03	2330	☐	☐	☐	☐	
20-043	W596692	86.50	88.00	0.04	2230	☐	☐	☐	☐	
20-043	W596694	88.00	89.50	0.11	920	☐	☐	☐	☐	
20-043	W596695	89.50	91.00	0.07	1390	☐	☐	☐	☐	
20-043	W596696	91.00	92.50	0.12	620	☐	☐	☐	☐	
20-045	W596728	92.50	94.00	0.10	130	☐	☐	☐	☐	
20-043	W596697	94.00	95.50	0.11	1320	☐	☐	☐	☐	
20-043	W596698	94.00	95.50	0.12	1290	☐	☑	☐	☐	coarse rej
20-043	W596699	95.50	97.00	0.08	840	☐	☐	☐	☐	
20-043	W596700	97.00	98.50	0.25	960	☐	☐	☐	☐	
20-043	W596701	98.50	100.00	0.06	1620	☐	☐	☐	☐	
20-043	W596702	100.00	101.50	0.17	570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-043	W596703	101.50	103.00	0.03	1040	☐	☐	☐	☐	
20-043	W596704	103.00	104.50	0.32	160	☐	☐	☐	☐	
20-043	W596705	104.50	106.00	0.09	630	☐	☐	☐	☐	
20-043	W596706	106.00	107.50	0.03	660	☐	☐	☐	☐	
20-045	W596707	107.50	109.00	0.08	720	☐	☐	☐	☐	
20-045	W596708	109.00	110.50	0.09	220	☐	☐	☐	☐	
20-045	W596709	110.50	112.00	0.04	900	☐	☐	☐	☐	
20-045	W596710	112.00	113.50	0.03	800	☐	☐	☐	☐	
20-045	W596712	113.50	115.00	0.05	650	☐	☐	☐	☐	
20-045	W596713	115.00	116.50	0.01	730	☐	☐	☐	☐	
20-045	W596714	116.50	118.00	0.01	680	☐	☐	☐	☐	
20-045	W596715	118.00	119.50	0.03	870	☐	☐	☐	☐	
20-045	W596716	119.50	121.00	0.05	400	☐	☐	☐	☐	
20-045	W596718	121.00	122.50	0.03	1320	☐	☐	☐	☐	
20-045	W596719	122.50	124.00	0.04	840	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-045	W596720	124.00	125.50	0.10	380	☐	☐	☐	☐	
20-045	W596721	125.50	127.00	0.10	860	☐	☐	☐	☐	
20-045	W596722	127.00	128.50	0.04	840	☐	☐	☐	☐	
20-045	W596723	127.00	128.50	0.04	850	☐	☑	☐	☐	
20-045	W596724	128.50	129.25	0.04	790	☐	☐	☐	☐	
20-036	b700745	129.25	130.00	0.33	530	☐	☐	☐	☐	
20-036	b700747	130.00	130.54	4.16	50	☐	☐	☐	☐	
20-036	b700748	130.54	131.50	12.80	50	☐	☐	☐	☐	
20-036	b700749	131.50	132.00	0.04	590	☐	☐	☐	☐	
20-045	W596725	132.00	133.50	0.04	820	☐	☐	☐	☐	
20-045	W596726	133.50	135.00	0.03	1240	☐	☐	☐	☐	
20-045	W596729	135.00	136.50	0.07	620	☐	☐	☐	☐	
20-045	W596730	136.50	138.00	0.02	1720	☐	☐	☐	☐	
20-045	W596731	136.50	138.00	0.01	1920	☑	☐	☐	☐	
20-045	W596732	138.00	139.00	0.02	860	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-045	W596733	139.00	139.50	0.61	160	☐	☐	☐	☐	
20-045	W596734	139.50	141.00	0.06	890	☐	☐	☐	☐	
20-045	W596735	141.00	142.50	0.17	650	☐	☐	☐	☐	
20-045	W596737	142.50	144.00	0.18	1000	☐	☐	☐	☐	
20-045	W596738	144.00	145.50	0.04	870	☐	☐	☐	☐	
20-045	W596739	145.50	147.00	0.47	1280	☐	☐	☐	☐	
20-045	W596740	147.00	148.00	0.08	1700	☐	☐	☐	☐	
20-045	W596741	148.00	149.00	1.16	130	☐	☐	☐	☐	
20-045	W596742	149.00	150.50	0.14	910	☐	☐	☐	☐	
20-045	W596743	150.50	152.00	0.05	1150	☐	☐	☐	☐	
20-045	W596744	152.00	153.50	0.02	1140	☐	☐	☐	☐	
20-045	W596745	153.50	155.00	0.17	1200	☐	☐	☐	☐	
20-045	W596746	155.00	156.06	0.09	340	☐	☐	☐	☐	
20-047	W596747	156.06	156.69	0.01	1710	☐	☐	☐	☐	
20-047	W596748	156.69	158.00	0.21	440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-047	W596749	158.00	159.50	0.15	820	☐	☐	☐	☐	
20-047	W596750	159.50	161.00	0.09	1060	☐	☐	☐	☐	
20-047	W596751	161.00	162.50	0.07	990	☐	☐	☐	☐	
20-047	W596753	162.50	164.00	0.04	680	☐	☐	☐	☐	
20-047	W596754	164.00	165.50	0.57	500	☐	☐	☐	☐	
20-047	W596755	165.50	167.00	0.04	1190	☐	☐	☐	☐	
20-047	W596756	167.00	168.50	0.03	1220	☐	☐	☐	☐	
20-047	W596757	168.50	170.00	0.03	950	☐	☐	☐	☐	
20-047	W596758	170.00	171.50	0.01	1340	☐	☐	☐	☐	
20-047	W596760	171.50	173.00	0.04	1330	☐	☐	☐	☐	
20-047	W596761	173.00	174.50	0.05	870	☐	☐	☐	☐	
20-047	W596762	173.00	174.50	0.07	900	☑	☐	☐	☐	
20-047	W596763	174.50	175.20	0.37	250	☐	☐	☐	☐	
20-047	W596764	175.20	175.75	0.09	1040	☐	☐	☐	☐	
20-047	W596765	175.75	177.25	0.32	150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-047	W596766	177.25	178.75	0.05	660	☐	☐	☐	☐	
20-047	W596767	178.75	179.70	0.09	440	☐	☐	☐	☐	
20-047	W596769	179.70	180.20	0.30	110	☐	☐	☐	☐	
20-047	W596770	180.20	180.90	0.28	110	☐	☐	☐	☐	
20-047	W596771	180.90	182.40	0.08	980	☐	☐	☐	☐	
20-047	W596772	182.40	182.90	2.31	90	☐	☐	☐	☐	
20-047	W596773	182.90	184.40	0.06	430	☐	☐	☐	☐	
20-047	W596774	184.40	185.90	0.27	940	☐	☐	☐	☐	
20-047	W596775	185.90	187.00	0.14	690	☐	☐	☐	☐	
20-047	W596776	185.90	187.00	0.12	660	☐	☑	☐	☐	
20-047	W596777	187.00	188.50	0.03	350	☐	☐	☐	☐	
20-047	W596778	188.50	190.00	0.04	990	☐	☐	☐	☐	
20-047	W596779	190.00	191.50	0.04	480	☐	☐	☐	☐	
20-047	W596780	191.50	193.00	0.02	440	☐	☐	☐	☐	
20-047	W596781	193.00	194.50	0.02	550	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-047	W596782	194.50	196.00	0.03	640	☐	☐	☐	☐	
20-047	W596783	196.00	197.50	0.02	1260	☐	☐	☐	☐	
20-047	W596784	197.50	199.00	0.09	1250	☐	☐	☐	☐	
20-047	W596785	199.00	200.50	0.09	1220	☐	☐	☐	☐	
20-047	W596786	200.50	201.50	0.07	390	☐	☐	☐	☐	
20-048	W596787	201.50	202.00	0.72	130	☐	☐	☐	☐	
20-048	W596788	202.00	203.50	0.05	890	☐	☐	☐	☐	
20-048	W596789	203.50	205.00	0.02	780	☐	☐	☐	☐	
20-048	W596790	205.00	206.50	0.02	1190	☐	☐	☐	☐	
20-048	W596791	206.50	208.00	0.04	1070	☐	☐	☐	☐	
20-048	W596792	208.00	209.50	0.01	910	☐	☐	☐	☐	
20-048	W596794	209.50	211.00	0.02	1430	☐	☐	☐	☐	
20-048	W596795	211.00	212.50	0.01	1360	☐	☐	☐	☐	
20-048	W596796	212.50	214.00	0.02	1370	☐	☐	☐	☐	
20-048	W596797	214.00	215.50	0.07	350	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-048	W596798	215.50	217.00	0.04	1330	☐	☐	☐	☐	
20-048	W596800	217.00	218.50	0.48	920	☐	☐	☐	☐	
20-048	W596801	218.50	220.00	0.02	590	☐	☐	☐	☐	
20-048	W596802	220.00	221.50	0.02	1070	☐	☐	☐	☐	
20-048	W596803	221.50	223.00	0.03	1180	☐	☐	☐	☐	
20-048	W596804	223.00	224.50	0.02	1350	☐	☐	☐	☐	
20-048	W596805	224.50	226.00	0.05	990	☐	☐	☐	☐	
20-048	W596806	226.00	227.50	0.02	1070	☐	☐	☐	☐	
20-048	W596807	227.50	229.00	0.02	910	☐	☐	☐	☐	
20-048	W596808	229.00	230.50	0.03	1000	☐	☐	☐	☐	
20-048	W596809	230.50	232.00	0.02	1150	☐	☐	☐	☐	
20-048	W596810	230.50	232.00	0.02	1180	☑	☐	☐	☐	quarter dup
20-048	W596811	232.00	233.50	0.06	1160	☐	☐	☐	☐	
20-048	W596812	233.50	235.00	0.10	850	☐	☐	☐	☐	
20-048	W596813	235.00	236.50	0.03	660	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-048	W596814	236.50	237.05	0.23	580	☐	☐	☐	☐	
20-048	W596815	237.05	238.50	0.16	1060	☐	☐	☐	☐	
20-048	W596816	238.50	240.00	0.03	1170	☐	☐	☐	☐	
20-048	W596817	240.00	241.00	0.03	1020	☐	☐	☐	☐	
20-048	W596818	241.00	242.50	0.20	450	☐	☐	☐	☐	
20-048	W596819	242.50	244.00	0.14	480	☐	☐	☐	☐	
20-048	W596820	242.50	244.00	0.16	480	☐	☑	☐	☐	coarse rej
20-048	W596821	244.00	245.00	0.04	980	☐	☐	☐	☐	
20-048	W596822	245.00	245.50	1.75	100	☐	☐	☐	☐	
20-048	W596823	245.50	246.00	0.05	840	☐	☐	☐	☐	
20-048	W596824	246.00	246.50	6.11	90	☐	☐	☐	☐	
20-048	W596826	246.50	248.00	0.77	1020	☐	☐	☐	☐	
20-049	W596827	248.00	249.50	0.03	1150	☐	☐	☐	☐	
20-049	W596828	249.50	251.00	0.21	940	☐	☐	☐	☐	
20-049	W596829	251.00	252.50	0.22	870	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-049	W596830	252.50	254.00	0.01	820	☐	☐	☐	☐	
20-049	W596831	254.00	255.50	0.02	1170	☐	☐	☐	☐	
20-049	W596832	255.50	257.00	0.08	1170	☐	☐	☐	☐	
20-049	W596834	257.00	258.50	0.03	1270	☐	☐	☐	☐	
20-049	W596835	258.50	259.50	0.06	1140	☐	☐	☐	☐	
20-049	W596836	259.50	260.00	0.54	190	☐	☐	☐	☐	
20-049	W596837	260.00	261.50	0.06	940	☐	☐	☐	☐	
20-049	W596838	261.50	263.00	0.12	980	☐	☐	☐	☐	
20-049	W596840	263.00	264.50	0.04	1240	☐	☐	☐	☐	
20-049	W596841	264.50	266.00	0.02	1190	☐	☐	☐	☐	
20-049	W596842	264.50	266.00	0.01	1180	☑	☐	☐	☐	quarter dup
20-049	W596843	266.00	267.50	0.01	1110	☐	☐	☐	☐	
20-049	W596844	267.50	269.00	0.01	1060	☐	☐	☐	☐	
20-049	W596845	269.00	270.50	0.02	1000	☐	☐	☐	☐	
20-049	W596847	270.50	272.00	0.01	1190	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-049	W596848	272.00	273.50	0.01	1170	☐	☐	☐	☐	
20-049	W596849	273.50	275.00	0.01	1090	☐	☐	☐	☐	
20-049	W596850	275.00	276.50	0.01	1150	☐	☐	☐	☐	
20-049	W596851	276.50	278.00	0.01	1240	☐	☐	☐	☐	
20-049	W596852	278.00	278.78	0.02	1000	☐	☐	☐	☐	
20-049	W596853	278.78	279.28	0.93	40	☐	☐	☐	☐	
20-049	W596854	279.28	280.50	0.03	1060	☐	☐	☐	☐	
20-049	W596855	280.50	281.94	0.02	1220	☐	☐	☐	☐	



From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
13.80	14.20	BX	34	35	NUL	1	rough orientation of breccia			
18.30	19.00	SH	81	25	NUL	2	shears in faulted rubbly gouge			
22.50	23.00	FR	5	15	NUL	2	low angle fractures with py and sulphides infill			
								Py	0.1	---
25.20	25.21	FR	5	29	NUL	1	fracture with chalcocite and native copper			
								Cu	0.1	DN
								Un	0.1	---
32.40	34.00	FO	49	65	NUL	10	folliation in siliceous dyke			
34.00	38.00	FR	5	60	NUL	5	rubbly gouge infilled fractures			
56.60	56.62	VT	37	10	NUL	1	small 15mm qtz vienelt with minor py			
58.60	58.61	FR	5	45	NUL	1	rubbly gouge infilled fracture			
59.70	59.71	VT	37	29	NUL	1	banded veinlet with minor py and cpy, fine grained milky white and grey quartz			
								Py	0.1	DI
								Cp	0.1	DI
65.50	65.80	SH	81	30	NUL	3	shears of well developed gouge in grd			
71.20	71.21	FR	5	18	NUL	1	py infill			
95.60	95.62	VT	37	60	NUL	1	py qtz chlorite veinlet with chlorite and epidote alteration around with silica alteration			
	959.00	VT	37	70	NUL	2	py veinelts with chlorite epidote and qtz alteration halos			
100.00	105.00	SH	81	62	NUL	10	shears in well developed fault			
112.00	112.01	VT	37	60	NUL	1	small py veinlet with intense epidote alteration halo			
120.30	120.40	VT	37	62	NUL	2	qtz-py veinelts with chlorite and epidote alteration halos.			
121.20	121.21	VT	37	55	NUL	1	qtz py veinlet			
123.50	123.51	VT	37	40	NUL	1	qtz py veinlet with small weak chlorite epidote alteration halo			
125.60	125.65	VT	37	35	NUL	2	small carbonate py veinlets, somewhat sheared and gougy			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
126.70	126.71	VT	37	42	NUL	1	small carboante veinlet			
129.70	129.72	VT	37	50	NUL	2	small carboante qtz veinelts			
130.00	130.03	VT	37	32	NUL	2	small mineralized py cpy bn veinlets			
130.03	130.13	VN	37	60	NUL	1	well mineralized py cpy bn vein			
130.30	131.70	FT	42	90	NUL	1	mineralized clasts in fault, unable to discern orientation of fault.			
136.20	136.30	VT	37	28	NUL	1	py carboante veinlet, somewhat of a strained texture			
136.25	136.26	VT	37	25	NUL	1	qtz-carb-py-chl veinlet			
139.25	139.34	VN	37	78	NUL	1	light grey silica flooded and altered, crackled vein, with py and Mo			
								Py	5	---
								Mo	1	---
139.25	139.32	VN	37	75	NUL	1	crackled vein with py			
140.00	140.01	FR	5	55	NUL	1	fracture with strong chlorite alteration halo			
142.30	142.37	VN	37	55	NUL	1	silica flooded qtz py vein area, small bands of py with minor cpy.			
								Py	5	---
								Cp	1	---
142.37	142.50	VT	37	48	NUL	1	qtz veinlet, w minor py			
143.20	143.21	VT	37	80	NUL	1	qtz py vienlet			
143.50	143.51	VT	37	55	NUL	1	qtz py veinlet w chl alt halo			
143.55	145.56	VT	37	50	NUL	1	qtz py veinlet w chl alt halo			
145.70	145.71	VT	37	38	NUL	1	qtz py veinlet w chl alt halo			
147.75	145.20	VT	37	60	NUL	4	silica flooded interval with bands of py and cpy			
148.40	148.50	VN	37	70	NUL	1	Silica flooded light frey py and cpy veinlets withing silica matirx, vein walls hard to detrermine			
								Py	7	---
								Cp	5	---
154.30	154.31	VT	37	60	NUL	1	py veinlet			
154.85	154.86	VT	37	65	NUL	1	qtz py veinlet w chl alt halo			
155.25	155.26	VT	37	68	NUL	1	qtz py veinlet w chl alt halo			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
155.92	156.06	BX	34	80	NUL	1	silicified breccia beside dyke, med to dark grey			
157.32	157.41	SH	81	72	NUL	1	crackled silicified breccia near to foot wall contact of dyke			
157.95	158.02	VN	37	75	NUL	1	silica flooded vein with minor sulphides and silicified shear sections			
158.85	158.90	VT	37	70	NUL	1	blebby, patchy mineralized vein with py and boronite(?)			
								Py	10	---
								Bo	10	---
160.95	161.00	VN	37	78	NUL	1	silicified sheared qtz py cpy bn mo vein			
								Bo	2	---
								Cp	4	---
								Mo	1	---
								Py	5	---
164.95	165.00	VN	37	65	NUL	1	silica altered py cpy vein, silica flooding of host rocks around			
								Cp	7	---
								Py	10	---
165.80	166.25	FR	5	55	NUL	6	small carbonate infilled fractures			
175.85	175.92	VN	37	60	NUL	1	moderate silica flooded py cpy vein			
179.55	179.70	VT	37	70	NUL	3	qtz carb veinlets w minor py and greyish silica			
								Py	3	---
179.85	180.00	VN	37	50	NUL	1	silica flooded qtz carbonate py vein area			
181.70	181.72	SH	81	70	NUL	1	dark grey gougy shear with disseminated py in gouge			
181.72	182.00	VN	37	68	NUL	1	webbed vein area, veins tend to trend ~68 deg possibly steeper			
								Bo	4	---
								Py	7	---
182.55	182.65	VN	37	56	NUL	1	sheeted bands pf sulphides in silica flooded vein area. Py and possibly bornite			
								Py	12	---
								Bo	6	---
184.82	184.83	VT	37	68	NUL	1	qtz py veinlet			
186.75	186.80	VT	37	38	NUL	3	swarm of small qtz py veinlets			
190.80	190.81	VT	37	80	NUL	1	qtz py veinelt			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
191.20	191.50	VT	37	15	NUL	1	qtz feldspar veinlet with epidote and py, trace cpy, low angle			
197.50	197.57	VT	37	65	NUL	3	qtz py chlorite veinlet swarm			
198.20	198.21	VT	37	60	NUL	1	qtz py veinlet w chl alt			
198.25	198.26	VT	37	80	NUL	1	qtz py veinlet w chl alt			
199.05	199.20	VT	37	17	NUL	1	low angle carbonate clay infill fracture			
200.18	200.19	VT	37	30	NUL	1	clay carbonate infilled fracture, crumbly			
201.55	201.59	VT	37	58	NUL	1	blebby silica flooded veinlet with possible bornite?			
206.00	206.20	FR	5	15	NUL	1	low angle chlorite epidote py alteration around fracture			
206.25	206.26	FR	5	65	NUL	1	chlorite epidote py alteration halo around small fracute/veinlet			
214.90	214.92	VN	37	60	NUL	1	qtz py vein			
								Py	30	---
217.40	217.42	VT	37	85	NUL	1	qtz py veinlet			
								Py	2	---
218.40	218.43	VT	37	50	NUL	1	qtz py cpy vein			
								Py	4	---
								Cp	2	---
220.50	220.51	VT	37	60	NUL	1	qtz py chl veinlet			
								Py	50	---
221.80	222.70	VT	37	70	NUL	5	small qtz py chl veinlets			
								Py	1	---
225.30	225.55	VT	37	70	NUL	3	small qtz py chl veinlets			
								Py	2	---
228.65	228.66	VT	37	55	NUL	1	small qtz py chl veinelt			
								Py	40	---
232.85	232.86	VT	37	61	NUL	1	qtz py chl veinlet			
								Py	50	---
234.70	234.71	VT	37	65	NUL	1	qtz py veinlet			
								Py	20	---
236.60	236.62	VT	37	70	NUL	1	crackled silicified vein			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	1	---
								Py	5	---
								Gn	0.5	---
237.25	237.50	SH	81	20	NUL	1	sheared rubble, other fractures nearby of similar orientation			
245.10	245.30	VN	37	60	NUL	1	py and cpy			
								Cp	10	---
								Py	30	---
246.20	246.21	VN	37	45	NUL	1	massive cpy py bn vein			
								Cp	40	---
								Bo	40	---
								Py	20	---
246.25	246.26	VN	37	60	NUL	1	massive cpy bn py vein			
								Cp	60	---
								Bo	20	---
								Py	20	---
246.70	246.14	VN	37	60	NUL	1	vein			
								Sp	2	---
								Mo	1	---
								Py	10	---
247.39	247.41	VN	37	60	NUL	1	qtz py vein			
								Py	40	---
								Mo	1	---
247.55	247.56	VT	37	72	NUL	1	veinelt			
								Py	20	---
								Cp	20	---
								Mo	5	---
247.75	247.77	VT	37	55	NUL	1	veinlet with py and cpy			
								Py	40	---
								Cp	30	---
248.39	248.40	VT	37	72	NUL	1	qtz vein w minor py			
								Py	2	---
249.83	249.88	VN	37	50	NUL	1	Py with minor cpy and bn			
								Py	60	---
								Cp	5	---
								Bo	5	---
251.70	251.72	VT	37	70	NUL	1	qtz py veinlet w minor sulphides			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	3	---
								Cp	1	---
								Mo	0.5	---
252.30	252.32	VT	37	65	NUL	1	qtz vein w minor sulphides			
								Py	2	---
255.95	255.96	VT	37	65	NUL	1	qtz vein with euhedral py			
								Py	10	---
259.80	260.10	VN	37	70	NUL	1	brecciated vuggy carbonate quartz vein with py and mo			
								Py	7	---
								Mo	0.5	---
262.03	262.04	VT	37	60	NUL	1	veinlet/fracture with py and mo			
								Py	20	---
								Mo	5	---
263.95	263.96	VT	37	75	NUL	1	small veinlet with qtz py and cpy			
								Py	15	---
								Cp	5	---
279.10	279.15	VN	37	70	NUL	1	py vein			
								Py	90	---

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384652	6888017	1242	87.78

ZONE: Exploration

SECTION:

HOLE: KL -20-484

CLAIM: YA86341

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 7.62m, Out

Drilling Dates: Sep 27 - Sep 30, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	5.75	5.75	CAS
5.75	6.15	0.4	OVB
6.15	19.55	13.4	GRD
19.55	29.1	9.55	QFP
29.1	79	49.9	GRD
79	87.78	8.78	GRD

SAMPLES	
Numbers:	W596856 to W596928
Total:	73
Batch:	049, 051, 052
Certificates:	WH20226294, WH20227062, WH20230278

COMMENTS

Hole ended short of target depth due to tough ground - could not advance any further
Handheld GPS accuracy of 1.6m

Box Log

KL -20-484

Klaza Exploration Zone

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Box Number	From (m)	To (m)
1	5.75	8.65
2	8.65	11.4
3	11.4	14.26
4	14.26	17.12
5	17.12	20
6	20	23.28
7	23.28	26.33
8	26.33	29.2
9	29.2	32.3
10	32.3	36.02
11	36.02	39
12	39	42.09
13	42.09	44.96
14	44.96	47.79
15	47.79	51.05
16	51.05	54.86
17	54.86	58.75
18	58.75	62.28
19	62.28	66
20	66	70.3
21	70.3	73.85
22	73.85	77.86
23	77.86	80.86
24	80.86	85.04
25	85.04	87.78

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-484									
	10.2	17	HTW	GRD	1486.4	936.7	2.27	2.7	medium grained granodiorite
	38.8	13	HTW	GRD	1197.6	760.8	2.39	2.7	fine grained granodiorite
	78.07	16	NTW	GRD	1107.8	715.8	2.45	2.8	

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.75	5.75	CAS	--	casing							
5.75	6.15	0.40	OVB	--	overburden							
6.15	7.50	1.35	GRD	MG	As per general lith, and weakly silica altered, strong oxidation and weathering on fractures							
									SIL	3I		
7.50	9.20	1.70	GRD	MG	As per general lith, and weakly clay altered and crackled, alteration halo around vein below.							
									CLY	4I	Py	0.5
									BLE	3I		
9.20	9.25	0.05	VEN	--	small vein, 68 deg tca. 3% fine grained Py. Fine grained grey qtz and white carbonate. Banded							
						LT	GY	ZO			Py	3
								BN				
9.25	9.71	0.46	GRD	MG	As per general lith, with stronger clay alteration halo due to vein above. Some small stringers of py.							
						MD	GY					
						LT	GY	ZO	CLY	4I	Py	2
						LT	GN					
9.71	14.20	4.49	GRD	MG	As per general lith							
14.20	14.30	0.10	GRD	MG	altered around small interval of rubble.							
								RB	CLY	4I		
14.30	14.80	0.50	GRD	MG	As per general lith							
14.80	15.30	0.50	GRD	MG	Silica and increasing clay alteration. Hanging wall of fractured vein zone below. Silica alteration grades into clay alteration. Low angle (30 deg) silica-py vein cutting through with weak moderate propyllitic alterarion halo, possibly source of silica alteration.							
											Py	0.5
15.30	15.60	0.30	VEN	--	fractured vein zone. Difficult to get accurte orientation, but from veinlet in compotent core at start of fractured interval, 58 deg tca							
								RB	OXI	3I	Py	25

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
								FR				
								CR				
15.60	16.76	1.16	GRD	MG	As per general lith, with fractures filled with py, broken, patchy chl-epidote-clay alteration around veinlets/stringers, pervasive chl alt							
								FR			Py	2
16.76	19.00	2.24	GRD	MG	As per general lith, and silicified, py stringers							
									SIL	3I	Py	1
19.00	19.55	0.55	FLR	--	faulted and sheared and strained ingtensely clay altered grd. Disseminated py. 60 deg tca.							
								SH	CLY	5I	Py	2
								RB				
19.55	20.60	1.05	FLR	--	rubbly and broken, gougy with gritty broken dyke clasts. Strongly clay altered							
								SH	CLY	5I		
20.60	21.30	0.70	QFP	FG	As per general lith							
21.30	29.10	7.80	QFP	FG	blocky mess og dyke and clay, strained and sheared, broken, stronglu clay altered in sheared bits. Some orientations of shears at 20 deg tca, but really very chaotic. Crackled							
								ST				
								SH				
								RB				
								FR				
29.10	29.70	0.60	GRD	MG	highly fractured, mineralized with py in webbed broken crackled veinlets/stringers, and in gouge between fractures. Strongly clay altered							
									CLY	4I	Py	3
29.70	30.60	0.90	GRD	MG	cut by stringers of qtz carb py, varying orientations. Decent amount of py in stringers. Strong to moderate clay alteration. Rock more compotent than interval above.							
									CLY	4I	Py	3
									BLE	3I		
30.60	30.75	0.15	GRD	MG	As per general lith							
30.75	31.00	0.25	GRD	MG	envelope of alteration around small py vein with sheared but compotent texture. 48 deg tca							
								EN	CLY	2I	Py	5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
31.00	34.24	3.24	GRD	MG	broken grd, cut by common small py vienlets. Pervasive chlorite alteration of mafic minerals. Locally rubbly. Patchy clay alteration, generally around strained or rubbly intervals.							
								PA	CHL	3I	Py	2
									CLY	3I		
34.24	34.33	0.09	VEN	--	qtz py vein, 40 deg tca, fractured broken,							
								FR			Py	10
34.33	35.40	1.07	GRD	MG	highly fractured , rubbly, clay altered							
								RB	CLY	4I	Py	3
								FR				
35.40	42.00	6.60	GRD	MG	Pervasive moderate clay and chlorite altered, rubbly in sections. Some py-qtz veins at 48 deg tca, 1cm wide, some secondary carbonate veins following same orientation.							
									CHL	3I	Py	2
									CLY	3I		
42.00	44.25	2.25	GRD	--	sheared and faulted strongly clay altered grd, abundant py, 17% Py with minor Gal. sections of compotent but still altered GRD.							
								ST				
								SH			Gn	0.5
								RB	CLY	4I	Py	17
44.25	46.55	2.30	GRD	MG	As per general lith							
46.55	47.80	1.25	GRD	MG	Grd with very low angle qtz-py-carbonate vein resulting in feldspars altered to clay and with carboante veinlets cutting through, light grey							
						LT	GY		CLY	4I	Py	4
47.80	50.10	2.30	GRD	MG	As per general lith, weak sericite alteration							
									SER	2I	Py	1
50.10	72.15	22.05	GRD	MG	interval of broken and clay altrered med grained grd cut by common py veins >1cm across, gougy intervals, generally quite broken. Rhodochrosite beginning to occur with pyrite at lower portion of interval. Minor Sphal occuring in larger veins (@ 69.6m @ 30 deg tca), other smaller veins at 20 deg tca with qtz py							
						MD	GY	RB	SIL	2I	Sp	0.1
						LT	GY	FR	CLY	3I	Py	1.5
									CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
72.15	75.60	3.45	GRD	FG	broken unaltered grd, py in fractures. Sometimes rubbly.							
						MD	GY					
						DK	GN	FR	CLY	3I	Py	0.5
75.60	79.00	3.40	GRD	FG	clay altered grd. Minor py veinlets cutting through. Broken and locally rubbly							
						LT	GY	FR	CLY	4I	Py	1.5
								CR				
79.00	81.10	2.10	GRD	FG	cave in from drilling common throughout this interval. Strongly fractured and claya ltered							
						LT	GY	RB	CLY	4I	Py	1
								CR				
81.10	81.70	0.60	FLR	--	faulted vein material, some larger compotent clasts mineralized with Py Gal and Sphal. 2 or 3 veins maybe 1-1.5 cm wide each. Broken and fracuted up form drilling, impossible to tell accurately what mineraliztion looked like though this interval.							
						LT	GY	RB	CLY	4I	Py	5
											Gn	1
											Sp	1
81.70	87.78	6.08	FLR	--	gouge and faulted material, gravelly at points, orientations of shears in fault are mostly at 30 deg tca							
						LT	GY	ST	CLY	5I	Py	1
								SH				
								RB				

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From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	5.75	5.75	CAS	OVB	--	casing
5.75	6.15	0.40	OVB	OVB	--	overburden
6.15	7.50	1.35	GRD	GRD	MG	As per general lith, and weakly silica altered, strong oxidation and weathering on fractures
7.50	9.20	1.70	GRD	GRD	MG	As per general lith, and weakly clay altered and crackled, alteration halo around vein below.
9.20	9.25	0.05	VEN	GRD	--	small vein, 68 deg tca. 3% fine grained Py. Fine grained grey qtz and white carbonate. Banded
9.25	9.71	0.46	GRD	GRD	MG	As per general lith, with stronger clay alteration halo due to vein above. Some small stringers of py.
9.71	14.20	4.49	GRD	GRD	MG	As per general lith
14.20	14.30	0.10	GRD	GRD	MG	altered around small interval of rubble.
14.30	14.80	0.50	GRD	GRD	MG	As per general lith
14.80	15.30	0.50	GRD	GRD	MG	Silica and increasing clay alteration. Hanging wall of fractured vein zone below. Silica alteration grades into clay alteration. Low angle (30 deg) silica-py vein cutting through with weak moderate propyllitic alterarion halo, possibly source of silica alteration.
15.30	15.60	0.30	VEN	GRD	--	fractured vein zone. Difficult to get accurte orientation, but from veinlet in compotent core at start of fractured interval, 58 deg tca
15.60	16.76	1.16	GRD	GRD	MG	As per general lith, with fractures filled with py, broken, patchy chl-epidote-clay alteration around veinlets/stringers, pervasive chl alt
16.76	19.00	2.24	GRD	GRD	MG	As per general lith, and silicified, py stringers
19.00	19.55	0.55	FLR	GRD	--	faulted and sheared and strained ingtensely clay altered grd. Disseminated py. 60 deg tca.
19.55	20.60	1.05	FLR	DYK	--	rubbly and broken, gougy with gritty broken dyke clasts. Strongly clay altered
20.60	21.30	0.70	QFP	DYK	FG	As per general lith
21.30	29.10	7.80	QFP	DYK	FG	blocky mess og dyke and clay, strained and sheared, broken, stronglu clay altered in sheared bits. Some orientations of shears at 20 deg tca, but really very chaotic. Crackled
29.10	29.70	0.60	GRD	GRD	MG	highly fractured, mineralized with py in webbed broken crackled veinlets/stringers, and in gouge between fractures. Strongly clay altered
29.70	30.60	0.90	GRD	GRD	MG	cut by stringers of qtz carb py, varying orientations. Decent amount of py in stringers. Strong to moderate clay alteration. Rock more compotent than interval above.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
30.60	30.75	0.15	GRD	GRD	MG	As per general lith
30.75	31.00	0.25	GRD	GRD	MG	envelope of alteration around small py vein with sheared but compotent texture. 48 deg tca
31.00	34.24	3.24	GRD	GRD	MG	broken grd, cut by common small py vienlets. Pervasive chlorite alteration of mafic minerals. Locally rubbly. Patchy clay alteration, generally around strained or rubbly intervals.
34.24	34.33	0.09	VEN	GRD	--	qtz py vein, 40 deg tca, fractured broken,
34.33	35.40	1.07	GRD	GRD	MG	highly fractured , rubbly, clay altered
35.40	42.00	6.60	GRD	GRD	MG	Pervasive moderate clay and chlorite altered, rubbly in sections. Some py-qtz veins at 48 deg tca, 1cm wide, some secondary carbonate veins following same orientation.
42.00	44.25	2.25	GRD	GRD	--	sheared and faulted strongly clay altered grd, abundant py, 17% Py with minor Gal. sections of compotent but still altered GRD.
44.25	46.55	2.30	GRD	GRD	MG	As per general lith
46.55	47.80	1.25	GRD	GRD	MG	Grd with very low angle qtz-py-carbonate vein resulting in feldspars altered to clay and with carboante veinlets cutting through, light grey
47.80	50.10	2.30	GRD	GRD	MG	As per general lith, weak sericite alteration
50.10	72.15	22.05	GRD	GRD	MG	interval of broken and clay altrered med grained grd cut by common py veins >1cm across, gougy intervals, generally quite broken. Rhodochrosite beginning to occur with pyrite at lower portion of interval. Minor Sphal occuring in larger veins (@ 69.6m @ 30 deg tca), other smaller veins at 20 deg tca with qtz py
72.15	75.60	3.45	GRD	GRD	FG	broken unaltered grd, py in fractures. Sometimes rubbly.
75.60	79.00	3.40	GRD	GRD	FG	clay altered grd. Minor py veinlets cutting through. Broken and locally rubbly
79.00	81.10	2.10	GRD	FLT	FG	cave in from drilling common throughout this interval. Strongly fractured and claya ltered
81.10	81.70	0.60	FLR	FLT	--	faulted vein material, some larger compotent clasts mineralized with Py Gal and Sphal. 2 or 3 veins maybe 1-1.5 cm wide each. Broken and fracuted up form drilling, impossible to tell accurately what mineraliztion looked like though this interval.
81.70	87.78	6.08	FLR	FLT	--	gouge and faulted material, gravelly at points, orientations of shears in fault are mostly at 30 deg tca

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From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.75	5.75	CAS	--	casing							
5.75	6.15	0.40	OVB	--	overburden							
6.15	19.55	13.40	GRD	FG	Oxidation on fractures down to 17m, fractured and locally blocky to rubbly. Patchy clay and/or silica alteration halos around small qtz-py veins, or in strongly fractured sections. Pervasive chlorite alteration, trace epidote alteration around small stringers, sometimes with py.				CHL	3I		
						MD	BL		SID	2I		
						MD	GN		CLY	2I		
						MD	GY	FR	OXI	3I	Py	1
19.55	29.10	9.55	QFP	MG	medium grianed grey green buff dyke with minor qtz feld phenocrysts. Trace fine grained diss py. Generally sheared and broken, rubbly infill in fractures, clay alteration on fractures.							
						LT	BF	PO				
						LT	GN	FR				
						LT	GY	CR	CLY	4I	Py	0.2
29.10	79.00	49.90	GRD	FG	fine to medium grained grd, generally broken. Pervasive moderate chlorite alteration, patchy clay alteration around common but small qtz py veining. Locally highly fractured and rubbly, also with associated clay alteration, sometiems mineralized. Carboante infill in some fractures, unmineralized.							
						MD	GN					
						LT	GN		SIL	2I		
						LT	GY	PA	CLY	4I		
						MD	GY	FR	CHL	3I	Py	2
79.00	87.78	8.78	GRD	--	faulted grd, some mineralization, quite broken througout interval.							
								FR	SIL	2I	Gn	0.5
						LT	GY	RB	CLY	4I	Py	2

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	6.10	6.10	0.42	7	0.00	0	--	2H	5W	overburden/ rubble
6.10	7.62	1.52	1.41	93	0.00	0	--	3H	4W	
7.62	9.14	1.52	1.43	94	0.00	0	--	2H	4W	
9.14	10.67	1.53	1.37	90	0.20	13	--	3H	3W	
10.67	12.19	1.52	1.42	93	0.14	9	--	3H	2W	
12.19	13.72	1.53	1.48	97	0.00	0	--	3H	2W	
13.72	15.24	1.52	1.47	97	0.50	33	--	3H	2W	
15.24	16.76	1.52	1.46	96	0.00	0	--	3H	2W	
16.76	18.29	1.53	1.48	97	0.00	0	--	3H	2W	
18.29	19.81	1.52	1.39	91	0.10	7	--	3H	1W	clay gouge section
19.81	21.34	1.53	1.18	77	0.00	0	--	3H	1W	
21.34	22.86	1.52	1.39	91	0.00	0	--	2H	1W	
22.86	24.38	1.52	1.48	97	0.00	0	--	2H	1W	
24.38	25.91	1.53	1.35	88	0.10	7	--	2H	1W	no matching joint set
25.91	27.43	1.52	1.43	94	0.28	18	--	2H	1W	
27.43	28.96	1.53	1.32	86	0.00	0	--	3H	1W	
28.96	30.48	1.52	1.47	97	0.66	43	--	3H	1W	
30.48	32.00	1.52	1.42	93	0.25	16	--	3H	1W	no matching joint set
32.00	33.53	1.53	1.45	95	0.00	0	--	1H	1W	
33.53	35.05	1.52	0.65	43	0.00	0	--	3H	1W	
35.05	36.58	1.53	1.46	95	0.11	7	--	3H	1W	no matching joint set
36.58	38.10	1.52	1.39	91	0.18	12	--	3H	1W	
38.10	39.62	1.52	1.5	99	0.00	0	--	3H	1W	
39.62	41.15	1.53	1.49	97	0.33	22	--	3H	1W	
41.15	42.67	1.52	1.22	80	0.00	0	--	2H	1W	clay fault gouge/ rubble
42.67	44.20	1.53	1.44	94	0.00	0	--	2H	1W	
44.20	47.24	3.04	2.58	85	0.00	0	--	2H	1W	
47.24	48.46	1.22	1.2	98	0.00	0	--	3H	1W	
48.46	50.29	1.83	1.28	70	0.00	0	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
50.29	53.34	3.05	2.25	74	0.23	8	--	2H	1W	
53.34	54.86	1.52	1.42	93	0.00	0	--	2H	1W	
54.86	56.39	1.53	1.45	95	0.17	11	--	2H	1W	
56.39	59.44	3.05	2.7	89	0.00	0	--	2H	1W	
59.44	62.48	3.04	2.87	94	0.12	4	--	2H	1W	
62.48	65.53	3.05	2.72	89	0.24	8	--	2H	1W	
65.53	68.58	3.05	2.45	80	0.23	8	--	2H	1W	clayish fault gouge and rubble
68.58	71.63	3.05	2.24	73	0.24	8	--	3H	1W	
71.63	73.15	1.52	1.13	74	0.00	0	--	3H	1W	rubble
73.15	74.68	1.53	1.03	67	0.00	0	--	3H	1W	rubble
74.68	76.20	1.52	0.9	59	0.00	0	--	3H	1W	rubble, cave
76.20	77.72	1.52	0.9	59	0.00	0	--	3H	1W	rubble
77.72	79.25	1.53	1.18	77	0.26	17	--	3H	1W	rubble, cave
79.25	80.77	1.52	1.12	74	0.12	8	--	2H	1W	rubble, cave
80.77	82.30	1.53	0.63	41	0.00	0	--	2H	1W	rubble, gouge, sulphides
82.30	83.82	1.52	0.75	49	0.00	0	--	2H	1W	rubble, gouge, sulphides
83.82	85.04	1.22	0.75	61	0.00	0	--	2H	1W	rubble, gouge
85.04	85.34	0.30	0.14	47	0.00	0	--	3H	1W	weird short interval, rubble
85.34	86.87	1.53	0.61	40	0.00	0	--	2H	1W	rubble, gouge
86.87	87.78	0.91	0.66	73	0.00	0	--	2H	1W	gouge

Magnetic Suscepatibility

KL -20-484

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
7	4.403	GRD	
8	0.352	GRD	
9	0	GRD	
10	20.25	GRD	
11	1.217	GRD	
12	1.036	GRD	
13	32.01	GRD	
14	3.182	GRD	
15	0.242	GRD	
16	0.382	GRD	
17	0.468	GRD	
18	5.043	GRD	
19	1.65	GRD	
20	0.235	QFP	
21	0.153	QFP	
22	0.101	QFP	
23	0.17	QFP	
24	0.174	QFP	
25	0.164	QFP	
26	0.14	QFP	
27	0.152	QFP	
28	0.23	QFP	
29	0.234	QFP	
30	0.308	GRD	
31	0.463	GRD	
32	0.427	GRD	
33	1.635	GRD	
34	0.194	GRD	
35	0.211	GRD	
36	0.204	GRD	
37	3.004	GRD	
38	0.305	GRD	
39	2.976	GRD	
40	0.459	GRD	
41	0.481	GRD	
42	0.186	GRD	gouge
43	0.193	GRD	
44	0.334	GRD	
45	2.005	GRD	
46	30.76	GRD	
47	0.561	GRD	
48	1.179	GRD	
49	0.228	GRD	reduced
50	0.278	GRD	
51	0.586	GRD	
52	0.405	GRD	
53	0	GRD	rubble
54	0	GRD	rubble
55	0.39	GRD	
56	0.141	GRD	
57	0.199	GRD	
58	0.256	GRD	
59	0.225	GRD	
60	0.123	GRD	
61	0.156	GRD	
62	0.129	GRD	
63	0.208	GRD	
64	0	GRD	rubble

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
65	0.166	GRD	
66	0.155	GRD	
67	0.362	GRD	
68	0.208	GRD	
69	0.449	GRD	
70	0.254	GRD	
71	0.27	GRD	
72	0	GRD	rubble
73	0	GRD	rubble
74	77.43	GRD	double-checked
75	0	GRD	rubble
76	0.191	GRD	
77	0	GRD	rubble
78	0.182	GRD	
79	0	GRD	rubble
79	0	GRD	rubble
80	0.192	GRD	gougey
81	0	GRD	rubble
82	0	GRD	rubble
83	0	GRD	rubble
84	0.397	GRD	gougey
85	0	GRD	rubble
86	0	GRD	rubble
87	0.305	GRD	gougey

Depth (m)	Magnetic Susceptibility	Unit	Comments

KL -20-484

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W596879	☐	20-051	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596889	☐	20-051	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596911	☐	20-052	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596915	☐	20-052	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596924	☐	20-052	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596873	☐	20-051	Low Grade	Klaza2020-B	☐	☐	☐
6.15	7.50	1.35	OVB, GRD	1.01	75	W596856	☐	20-049	Low Grade		☐	☐	☐
7.50	9.00	1.50	GRD	1.35	90	W596857	☐	20-049	Low Grade		☐	☐	☐
9.00	9.50	0.50	GRD	0.50	100	W596858	☐	20-049	Low Grade		☐	☐	☐
9.50	11.00	1.50	GRD	1.29	86	W596859	☐	20-049	Low Grade		☐	☐	☐
11.00	12.50	1.50	GRD	1.22	81	W596860	☐	20-049	Low Grade		☐	☐	☐
12.50	14.00	1.50	GRD	1.28	85	W596861	☐	20-049	Low Grade		☐	☐	☐
14.00	15.20	1.20	GRD	1.05	88	W596862	☐	20-049	Low Grade		☐	☐	☐
14.00	15.20	1.20	GRD	1.05	88	W596863	☐	20-049	Low Grade		☐	☐	☑
15.20	15.70	0.50	GRD	0.42	84	W596864	☐	20-049	Low Grade		☐	☐	☐
15.70	17.00	1.30	GRD	1.04	80	W596865	☐	20-049	Low Grade		☐	☐	☐
17.00	17.50	0.50	GRD	0.43	86	W596866	☐	20-049	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
17.50	18.90	1.40	GRD	1.15	82	W596867	☐	20-051	Low Grade		☐	☐	☐
18.90	19.55	0.65	GRD	0.57	88	W596868	☐	20-051	Low Grade		☐	☐	☐
19.55	21.00	1.45	GRD, QFP	1.17	81	W596869	☐	20-051	Low Grade		☐	☐	☐
21.00	22.50	1.50	QFP	1.11	74	W596870	☐	20-051	Low Grade		☐	☐	☐
22.50	24.00	1.50	QFP	1.27	85	W596871	☐	20-051	Low Grade		☐	☐	☐
24.00	25.50	1.50	QFP	1.10	73	W596872	☐	20-051	Low Grade		☐	☐	☐
25.50	27.00	1.50	QFP	1.17	78	W596874	☐	20-051	Low Grade		☐	☐	☐
27.00	28.00	1.00	QFP	0.80	80	W596875	☐	20-051	Low Grade		☐	☐	☐
28.00	29.10	1.10	QFP	0.84	76	W596876	☐	20-051	Low Grade		☐	☐	☐
29.10	29.65	0.55	QFP, GRD	0.53	96	W596877	☐	20-051	Low Grade		☐	☐	☐
29.65	31.00	1.35	GRD	1.27	94	W596878	☐	20-051	Low Grade		☐	☐	☐
31.00	32.50	1.50	GRD	1.24	83	W596880	☐	20-051	Low Grade		☐	☐	☐
32.50	34.00	1.50	GRD	0.95	63	W596881	☐	20-051	Low Grade		☐	☐	☐
34.00	35.37	1.37	GRD	0.65	47	W596882	☐	20-051	Low Grade		☐	☐	☐
35.37	36.58	1.21	GRD	1.06	88	W596883	☐	20-051	Low Grade		☐	☐	☐
36.58	38.00	1.42	GRD	1.04	73	W596884	☐	20-051	Low Grade		☐	☐	☐
38.00	39.00	1.00	GRD	0.86	86	W596885	☐	20-051	Low Grade		☐	☐	☐
39.00	40.50	1.50	GRD	1.35	90	W596886	☐	20-051	Low Grade		☐	☐	☐
40.50	42.00	1.50	GRD	1.01	67	W596887	☐	20-051	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
42.00	42.80	0.80	GRD	0.52	65	W596888	☐	20-051	Low Grade		☐	☐	☐
42.80	44.20	1.40	GRD	1.10	79	W596890	☐	20-051	Low Grade		☐	☐	☐
44.20	45.70	1.50	GRD	1.29	86	W596891	☐	20-051	Low Grade		☐	☐	☐
45.70	46.70	1.00	GRD	0.65	65	W596892	☐	20-051	Low Grade		☐	☐	☐
46.70	47.79	1.09	GRD	0.95	87	W596893	☐	20-051	Low Grade		☐	☐	☐
47.79	49.29	1.50	GRD	0.86	57	W596894	☐	20-051	Low Grade		☐	☐	☐
49.29	50.50	1.21	GRD	0.53	44	W596895	☐	20-051	Low Grade		☐	☐	☐
50.50	52.00	1.50	GRD	1.42	95	W596896	☐	20-051	Low Grade		☐	☐	☐
50.50	52.00	1.50	GRD	1.42	95	W596897	☐	20-051	Low Grade		☐	☐	☑
52.00	53.00	1.00	GRD	1.00	100	W596898	☐	20-051	Low Grade		☐	☐	☐
53.00	54.00	1.00	GRD	0.82	82	W596899	☐	20-051	Low Grade		☐	☐	☐
54.00	55.00	1.00	GRD	0.81	81	W596900	☐	20-051	Low Grade		☐	☐	☐
55.00	56.50	1.50	GRD	1.06	71	W596901	☐	20-051	Low Grade		☐	☐	☐
56.50	57.80	1.30	GRD	1.15	88	W596902	☐	20-051	Low Grade		☐	☐	☐
56.50	57.80	1.30	GRD	1.15	88	W596903	☐	20-051	Low Grade		☐	☑	☐
57.80	58.75	0.95	GRD	0.89	94	W596904	☐	20-051	Low Grade		☐	☐	☐
58.75	60.25	1.50	GRD	1.11	74	W596905	☐	20-051	Low Grade		☐	☐	☐
60.25	61.75	1.50	GRD	1.12	75	W596906	☐	20-051	Low Grade		☐	☐	☐
61.75	63.25	1.50	GRD	1.05	70	W596907	☐	20-052	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
63.25	64.75	1.50	GRD	1.40	93	W596908	☐	20-052	Low Grade		☐	☐	☐
64.75	66.25	1.50	GRD	1.24	83	W596909	☐	20-052	Low Grade		☐	☐	☐
66.25	67.75	1.50	GRD	1.00	67	W596910	☐	20-052	Low Grade		☐	☐	☐
67.75	69.25	1.50	GRD	1.24	83	W596912	☐	20-052	Low Grade		☐	☐	☐
69.25	70.75	1.50	GRD	1.25	83	W596913	☐	20-052	Low Grade		☐	☐	☐
70.75	72.25	1.50	GRD	1.50	100	W596914	☐	20-052	Low Grade		☐	☐	☐
72.25	73.75	1.50	GRD	1.18	79	W596916	☐	20-052	Low Grade		☐	☐	☐
73.75	75.25	1.50	GRD	1.29	86	W596917	☐	20-052	Low Grade		☐	☐	☐
75.25	76.75	1.50	GRD	1.27	85	W596918	☐	20-052	Low Grade		☐	☐	☐
76.75	78.25	1.50	GRD	1.06	71	W596919	☐	20-052	Low Grade		☐	☐	☐
76.75	78.25	1.50	GRD	1.06	71	W596920	☐	20-052	Low Grade		☐	☐	☑
78.25	79.75	1.50	GRD	1.24	83	W596921	☐	20-052	Low Grade		☐	☐	☐
79.75	81.00	1.25	GRD	1.09	87	W596922	☐	20-052	Low Grade		☐	☐	☐
81.00	82.00	1.00	GRD	0.73	73	W596923	☐	20-052	Low Grade		☐	☐	☐
82.00	83.50	1.50	GRD	1.09	73	W596925	☐	20-052	Low Grade		☐	☐	☐
83.50	85.00	1.50	GRD	1.15	77	W596926	☐	20-052	Low Grade		☐	☐	☐
85.00	86.50	1.50	GRD	0.94	63	W596927	☐	20-052	Low Grade		☐	☐	☐
86.50	87.78	1.28	GRD	1.09	85	W596928	☐	20-052	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-051	W596873	0.00	0.00	2.97	600	☐	☐	☐	☑ Klaza2020-B	klaza b
20-051	W596879	0.00	0.00	2.86	960	☐	☐	☐	☑ Klaza2020-B	klaza b
20-051	W596889	0.00	0.00	0.01	30	☐	☐	☑	☐	blank
20-052	W596911	0.00	0.00	0.64	220	☐	☐	☐	☑ Klaza2020-A	klaza a
20-052	W596915	0.00	0.00	3.04	350	☐	☐	☐	☑ Klaza2020-B	klaza b
20-052	W596924	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-049	W596856	6.15	7.50	0.08	700	☐	☐	☐	☐	
20-049	W596857	7.50	9.00	0.11	1560	☐	☐	☐	☐	
20-049	W596858	9.00	9.50	0.09	310	☐	☐	☐	☐	
20-049	W596859	9.50	11.00	0.12	1230	☐	☐	☐	☐	
20-049	W596860	11.00	12.50	0.22	800	☐	☐	☐	☐	
20-049	W596861	12.50	14.00	0.20	2320	☐	☐	☐	☐	
20-049	W596862	14.00	15.20	0.10	320	☐	☐	☐	☐	
20-049	W596863	14.00	15.20	0.09	320	☐	☑	☐	☐	coarse dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-049	W596864	15.20	15.70	0.11	20	☐	☐	☐	☐	
20-049	W596865	15.70	17.00	0.16	200	☐	☐	☐	☐	
20-049	W596866	17.00	17.50	0.31	50	☐	☐	☐	☐	
20-051	W596867	17.50	18.90	0.17	270	☐	☐	☐	☐	
20-051	W596868	18.90	19.55	0.20	230	☐	☐	☐	☐	
20-051	W596869	19.55	21.00	0.28	860	☐	☐	☐	☐	
20-051	W596870	21.00	22.50	0.47	1080	☐	☐	☐	☐	
20-051	W596871	22.50	24.00	1.13	1030	☐	☐	☐	☐	
20-051	W596872	24.00	25.50	0.70	1390	☐	☐	☐	☐	
20-051	W596874	25.50	27.00	0.11	920	☐	☐	☐	☐	
20-051	W596875	27.00	28.00	0.18	780	☐	☐	☐	☐	
20-051	W596876	28.00	29.10	0.14	1050	☐	☐	☐	☐	
20-051	W596877	29.10	29.65	0.17	620	☐	☐	☐	☐	
20-051	W596878	29.65	31.00	0.43	200	☐	☐	☐	☐	
20-051	W596880	31.00	32.50	0.17	790	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-051	W596881	32.50	34.00	0.09	1210	☐	☐	☐	☐	
20-051	W596882	34.00	35.37	0.24	60	☐	☐	☐	☐	
20-051	W596883	35.37	36.58	0.17	150	☐	☐	☐	☐	
20-051	W596884	36.58	38.00	0.11	450	☐	☐	☐	☐	
20-051	W596885	38.00	39.00	0.11	350	☐	☐	☐	☐	
20-051	W596886	39.00	40.50	0.19	420	☐	☐	☐	☐	
20-051	W596887	40.50	42.00	0.22	420	☐	☐	☐	☐	
20-051	W596888	42.00	42.80	0.23	60	☐	☐	☐	☐	
20-051	W596890	42.80	44.20	0.70	100	☐	☐	☐	☐	
20-051	W596891	44.20	45.70	0.13	320	☐	☐	☐	☐	
20-051	W596892	45.70	46.70	0.26	280	☐	☐	☐	☐	
20-051	W596893	46.70	47.79	0.14	130	☐	☐	☐	☐	
20-051	W596894	47.79	49.29	0.13	200	☐	☐	☐	☐	
20-051	W596895	49.29	50.50	0.19	240	☐	☐	☐	☐	
20-051	W596896	50.50	52.00	0.34	190	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-051	W596897	50.50	52.00	0.32	240	☐	☑	☐	☐	coarse dup
20-051	W596898	52.00	53.00	0.20	90	☐	☐	☐	☐	
20-051	W596899	53.00	54.00	0.29	110	☐	☐	☐	☐	
20-051	W596900	54.00	55.00	0.33	230	☐	☐	☐	☐	
20-051	W596901	55.00	56.50	0.07	160	☐	☐	☐	☐	
20-051	W596902	56.50	57.80	0.11	170	☐	☐	☐	☐	
20-051	W596903	56.50	57.80	0.10	120	☑	☐	☐	☐	quarter dup
20-051	W596904	57.80	58.75	0.09	250	☐	☐	☐	☐	
20-051	W596905	58.75	60.25	0.10	560	☐	☐	☐	☐	
20-051	W596906	60.25	61.75	0.17	200	☐	☐	☐	☐	
20-052	W596907	61.75	63.25	0.23	170	☐	☐	☐	☐	
20-052	W596908	63.25	64.75	0.13	120	☐	☐	☐	☐	
20-052	W596909	64.75	66.25	0.11	190	☐	☐	☐	☐	
20-052	W596910	66.25	67.75	0.21	130	☐	☐	☐	☐	
20-052	W596912	67.75	69.25	0.24	150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-052	W596913	69.25	70.75	0.44	150	☐	☐	☐	☐	
20-052	W596914	70.75	72.25	0.11	280	☐	☐	☐	☐	
20-052	W596916	72.25	73.75	0.14	580	☐	☐	☐	☐	
20-052	W596917	73.75	75.25	0.19	240	☐	☐	☐	☐	
20-052	W596918	75.25	76.75	0.20	270	☐	☐	☐	☐	
20-052	W596919	76.75	78.25	0.08	100	☐	☐	☐	☐	
20-052	W596920	76.75	78.25	0.08	120	☐	☑	☐	☐	coarse dup
20-052	W596921	78.25	79.75	0.13	160	☐	☐	☐	☐	
20-052	W596922	79.75	81.00	0.10	440	☐	☐	☐	☐	
20-052	W596923	81.00	82.00	0.44	40	☐	☐	☐	☐	
20-052	W596925	82.00	83.50	0.21	150	☐	☐	☐	☐	
20-052	W596926	83.50	85.00	0.14	340	☐	☐	☐	☐	
20-052	W596927	85.00	86.50	1.56	440	☐	☐	☐	☐	
20-052	W596928	86.50	87.78	0.18	460	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
9.20	9.25	VN	37	68	NUL	1	grey quartz and carbonate with minor py			
								Py	2	---
12.90	12.91	VT	37	68	NUL	1	qtz py veinlet			
								Py	30	---
14.70	14.72	VT	37	18	NUL	1	qtz veinlet with minor py and strong silica alteration halo			
								Py	7	---
15.30	15.32	VT	37	60	NUL	1	8mm py veinlet			
								Py	40	---
17.00	17.01	VT	37	75	NUL	1	2mm py veinlet/stringer			
								Py	10	---
19.40	19.50	SH	81	60	NUL	2	shears in gouge-faulted interval			
21.00	21.05	FR	5	50	NUL	1	fracture w dark grey staining halo			
21.80	21.83	FR	5	25	NUL	1	fracture with small amount of dark grey stained rubbly gouge.			
30.90	30.92	VT	37	48	NUL	1	py veinlet, mineralization occurred same time as shearing?			
								Py	80	---
35.40	35.44	VT	37	50	NUL	1	qtz-py vein with secondary carbonate vein following same orientation on footwall			
								Py	5	---
36.40	36.41	VT	37	50	NUL	1	py vein			
								Py	60	---
39.00	40.50	VT	37	15	NUL	2	low angle py veins			
								Py	5	---
43.20	43.80	SH	81	50	NUL	3	rubbly gougy shears			
45.70	45.71	VT	37	20	NUL	1	small qtz-carb-py veinlet			
								Py	10	---
47.30	47.31	VT	37	3	NUL	1	low angle vein with moderatel clay alteration halo			
								Py	15	---
52.40	52.43	VN	37	78	NUL	1	py vein			
								Py	70	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
58.00	58.20	VT	37	15	NUL	1	qtz py veinlet			
								Py	10	---
70.00	70.02	VT	37	20	NUL	1	qtz- py sphal vein with minor carbonate			
								Py	40	---
								Sp	5	---
77.70	77.71	VT	37	40	NUL	1	euhedral py crystals in fine grained clay-carbonate shear			
								Py	30	---
81.30	81.32	VN	37	32	NUL	1	vein with py and minor gal			
								Py	30	---
								Gn	2	---
83.50	85.00	SH	81	28	NUL	4	shears in rubbly gougy interval			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		385110	6888864	1400	303.28

ZONE: Exploration

SECTION:

HOLE: KL -20-485

CLAIM: YA86362

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 4.57m, Out

Drilling Dates: Sep 28 - Oct 01, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Victoria Mtn. vein sets

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.14	1.14	CAS
1.14	3.05	1.91	OVB
3.05	33.57	30.52	QFP
33.57	35.07	1.5	GRD
35.07	37.52	2.45	BXA
37.52	41.01	3.49	GRD
41.01	44.68	3.67	GRD
44.68	51.17	6.49	GRD
51.17	51.5	0.33	GRD
51.5	73.35	21.85	GRD
73.35	74.86	1.51	GRD
74.86	101.47	26.61	GRD
101.47	105.12	3.65	GRD
105.12	218.54	113.42	GRD
218.54	224.53	5.99	QFP
224.53	225.45	0.92	GRD

SAMPLES	
Numbers:	B700754 to B700755, W598447 to W598560
Total:	116
Batch:	036, 050, 053, 054, 055
Certificates:	WH20227042, WH20230279, WH20230280, WH20233995, WH20238418

COMMENTS
Handheld GPS accuarcy of 1.9 m

225.45	242.65	17.2	QFP
242.65	278.63	35.98	GRD
278.63	281.1	2.47	GRD
281.1	282.2	1.1	VEN
282.2	303.28	21.08	GRD

Box Log

KL -20-485

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.14	5.3
2	5.3	8.1
3	8.1	12.1
4	12.1	15.23
5	15.23	18.29
6	18.29	21.34
7	21.34	24.25
8	24.25	27.27
9	27.27	30.2
10	30.2	33.4
11	33.4	37.47
12	37.47	41.66
13	41.66	44.71
14	44.71	48.77
15	48.77	53.2
16	53.2	57.21
17	57.21	61.22
18	61.22	65.36
19	65.36	69.63
20	69.63	73.75
21	73.75	77.89
22	77.89	81.81
23	81.81	85.82
24	85.82	89.92
25	89.92	94.21
26	94.21	98.06
27	98.06	101.96
28	101.96	105.71
29	105.71	109.83
30	109.83	114.3
31	114.3	118.48
32	118.48	122.56
33	122.56	126.93
34	126.93	131.36
35	131.36	135.5
36	135.5	139.75
37	139.75	144.13
38	144.13	148.26
39	148.26	152.4
40	152.4	156.69
41	156.69	160.94
42	160.94	165.1
43	165.1	169.35
44	169.35	173.38
45	173.38	177.27
46	177.27	181.32
47	181.32	185.22
48	185.22	189.36
49	189.36	193.75
50	193.75	198.06
51	198.06	201.99
52	201.99	206.15
53	206.15	210.31
54	210.31	214.45
55	214.45	218.8
56	218.8	223.24
57	223.24	227.48
58	227.48	231.65
59	231.65	235.9
60	235.9	240.31
61	240.31	244.7
62	244.7	249.15
63	249.15	253.51
64	253.51	257.89
65	257.89	262.41
66	262.41	266.7
67	266.7	270.89
68	270.89	274.75
69	274.75	279.15
70	279.15	283.33
71	283.33	287.32
72	287.32	291.54
73	291.54	295.68
74	295.68	299.85
75	299.85	303.28

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-485									
	22.28	16.25	HTW	QFP	1501.7	931.3	2.4	2.6	clay altered quartz feldspar porphyry with large cm size smokey quartz phenos
	46.68	14.5	NTW	GRD	939.9	602.1	2.29	2.8	fine grained chlorite altered granodiorite
	106.68	15	NTW	GRD	973.1	624.4	2.29	2.8	fine grained granodiorite with thin quartz vein and small cluster of coarse grained pyrite
	130.15	17	NTW	GRD	1265.4	825	2.63	2.9	silicified and clay altered, brecciated fine grained grd with 5.5cm of qtz carbonate sulphide veining containing py sphal gal
	139.34	10.1	NTW	GRD	732.1	472.9	2.56	2.8	sheeted veinlets in clay altered fine grained grd, minor sulphides
	155.85	9.2	NTW	GRD	712.8	472.9	2.74	3.0	Clay altered and silicified, weakly brecciated, fine grained GRD with 3cm of qtz carbonate sulphide veining containing py sphal gal and jamesonite/stibnite +- aspy
	167	16.8	NTW	GRD	1181.1	764	2.49	2.8	fine grained grd / diorite
	193.97	14.4	NTW	GRD	998.5	638.6	2.45	2.8	silicified and clay altered, moderately brecciated fine grained grd with 6cm of qtz carbonate sulphide veining containing minor py sphal gal

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
	246.7	11.2	NTW	GRD	777.7	502.5	2.46	2.8	strained moderatly clay altered and moderately silicified fine grained granodiorite cut by small stringers of chalcedonic quartz and carbonates, containing minor py sphal gal
	273.45	14.5	NTW	GRD	1014.6	652.6	2.47	2.8	fg grd / diorite

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.14	1.14	CAS	--	No core recovered - casing.							
1.14	3.05	1.91	OVB	FG	OVB - Rounded core and re-drilled.							
						MD	OR		LIM	4I		
						DK	OR					
3.05	9.04	5.99	QFP	FG	This part of the interval is prevasively limonite altered with black MnOx coming in along fracture surfaces as well - moderately. Most of this interval is broken and rubbled. There is light grey quartz veinlets in this interval as well.							
9.04	10.81	1.77	BXA	FG	Brecciated zone of dyke. This zone is pervasively limonite alterated as well.							
10.81	15.29	4.48	QFP	FG	Pervasively limonite altered QFP dyke with local hematite. We also see black MnOx coming in along fracture surfaces.							
15.29	20.80	5.51	BXA	FG	Zone of weakly brecciated QFP dyke. This interval is also pervasively limonite altered with local hematite alteration as well.							
20.80	23.33	2.53	QFP	FG	Becoming less limonite altered with limonite becoming patchy and only locally pervasive.							
23.33	24.55	1.22	BXA	FG	Moderately brecciated QFP dyke with patch limonite staining.							
24.55	26.35	1.80	QFP	FG	QFP dyke that is light green/ grey and only has minor limonite alteration coming in along fracture surfaces. Hematite altereation is at the upper contact.							
26.35	33.57	7.22	BXA	FG	Brecciated QFP dyke with patchy pervasive hematite alteration giving the core a dark purple brown color to a red-brown color.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
33.57	35.07	1.50	GRD	FG	Very altered granodiorite? It is light grey to blue in color and is fairly soft - pervasive clay alteration? The unit is very fine grained and brecciated locally. At the lower contact we see a strong breccia with predominantly goue and clasts floating in the gouge.							
						LT	GY	AN	CLY	4I		
						LT	BL					
						LT	WH					
35.07	37.52	2.45	BXA	FG	Very gouge rich breccia with clasts floating in the gouge. Dark green to dark brown with zones of light brown. Appears to be locally chloritic. There is local white quartz veining in this interval occurring as clasts.							
						LT	GY					
						LT	BR					
						DK	BR					
						DK	GN					
37.52	41.01	3.49	GRD	MG	A very altered granodiorite. Light grey to light blue in color due to strong pervasive clay alteration. There is also patchy pervasive limonite alteration coming in along fracture surfaces. There light grey and white quartz veining in this interval throughout (stringers to veinlets). There is also black MnOx coming in along fracture surfaces locally.							
						MD	OR					
						LT	BL		CLY	5I		
						LT	GY		LIM	4I		
						DK	OR					
41.01	44.68	3.67	GRD	FG	Fault zone with granodiorite. Pervasively limonite altered. Fault is made up of rubble predominantly - 80% with Competent core - 20%. There are also two small quartz veinlets in this interval that are milky white to light grey with dark brown FeOx of some kind.							
						MD	OR					
						DK	OR		LIM	5I		
44.68	51.17	6.49	GRD	FG	Medium to dark grey fine grained fresh, unaltered granodiorite. There is local patches of alteration but mostly fresh. We have limonite coming in along fracture surfaces locally pervasive. There is also patchy white clay alteration coming in around the lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY		CLY	2I		
						DK	GY	AN	LIM	3I		
51.17	51.50	0.33	GRD	FG	Breccia zone with strong gouge with clasts floating in it. It is pervasively limonite altered.							
						MD	OR		LIM	5I		
						DK	OR					
51.50	73.35	21.85	GRD	FG	Light to medium grey fine grained granodiorite that is fresh and only weakly altered. Limonite is coming in along fracture surfaces. There is local white to grey quartz veining. Locally there is weak local white clay alteration usually near a frature. There is disseminated black biotite throughout this interval. At 62.11 - 62.17 there is a zone of gouge that is pervasive limonite altered. 67.17 - 67.30 m there is another zone of pervasive limonite alteration of gouge.							
						MD	GY	---	LIM	2I	Bi	0.5
						MD	OR					
						DK	GY		CLY	1I		
						DK	OR					
73.35	74.86	1.51	GRD	FG	Small fault zone hosted in fine grained granodiorite that is pervasively limonite altered. Gouge - 75%, competent core - 10%, and rubble - 15%.							
						MD	OR					
						DK	OR					
74.86	77.97	3.11	GRD	FG	Same as general lithology. There is a smal rubble zone at 76.42 - 76.47 m that is prevasively limonite altered.							
77.97	79.85	1.88	GRD	FG	Small broken up zone with local rubble patches. Competent core - 70%, Rubble - 30%.							
79.85	80.79	0.94	GRD	FG	Weakly brecciated zone with gouge along the fracture surfaces and at the end of this interval there is a 9 cm wide gouge zone with small clasts floating in the gouge.							
80.79	81.07	0.28	GRD	FG	Same as general lithology.							
81.07	81.17	0.10	GRD	FG	There is a small quartz vein - 1.5 cm wide with a small shear with gouge along the fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
81.17	85.82	4.65	GRD	FG	Same as general lith.							
85.82	85.87	0.05	VEN	FG	White and dark grey quartz with brecciation at the lower contact as well as fine grained pyrite that is locally clustered together.							
											Py	0.1
85.87	86.36	0.49	GRD	FG	Same as general lithology.							
86.36	87.03	0.67	GRD	FG	Zone of strong white clay alteration after 86.87 m we see some faulting with gouge and decomposed granodiorite.							
87.03	90.00	2.97	GRD	FG	Same as general lithology.							
90.00	90.63	0.63	GRD	FG	Zone of strong white clay alteration. There is also a quartz vein in this interval at 90.52 - 90.56 m. White to light grey to dark grey quartz with disseminated coarse grained pyrite occurring in bands.							
90.63	101.47	10.84	GRD	FG	Same as general lithology.							
101.47	105.12	3.65	GRD	FG	Fault zone with gouge and rubble predominantly. Gouge - 60%, Rubble - 20%, and competent core - 20%. There is also patchy limonite coming in along fracture surfaces at the end of this interval. There is pervasive hematite alteration at the lower contact as well.							
						MD	OR					
						MD	GY		LIM	3I		
						DK	GY		HEM	1I		
						DK	OR					
						DK	BR					
105.12	105.81	0.69	VEN	FG	Zone of altered granodiorite that is bleached at the upper contact and at the lower contact there is white clay alteration. In the middle of the interval there is a quartz vein that is at 105.66 - 105.71 m. The vein is white with light grey to dark grey with limonite coming in along fracture surfaces. There is trace blebby pyrite occurring along the vein selvage.							
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
105.81	114.55	8.74	GRD	FG	Same as general lithology. There are 4 quartz veinlet in this interval with pyrite. The first one is at 106.64 - 106.74 m - shallowly dipping quartz vein that is white with blebby pyrite - 0.5%. The second one is at 107.02 - 107.10 m - shallowly dipping quartz vein. The quartz is light grey to white with blebby trace pyrite. The third is at 112.14 - 112.18 m that is 1 cm wide and is light grey glassy to white with blebby pyrite - 0.5%. The final vein is at 112.74 - 112.80 m and is 0.5 cm wide and has 1.5% blebby pyrite.							
114.55	114.88	0.33	GRD	FG	Altered zone of granodiorite that is moderately to strongly white clay altered grading into a strong limonite alteration with a 11 cm gouge and rubble zone.							
114.88	115.55	0.67	GRD	FG	Same as general lithology							
115.55	116.17	0.62	VEN	FG	Zone of strong white clay alteration with a quartz vein/ sulphide zone at 115.82 - 115.95 m. The vein is white to light grey to dark grey with blebby fine grained pyrite.							
											Py	1
116.17	123.00	6.83	GRD	FG	Same as general lithology.							
123.00	123.15	0.15	VEN	FG	Zone of altered granodiorite with a quartz vein in the middle of the interval at 123.07 - 123.10 m. Quartz vein is white with large open space cavitiy that is infilled with baryite? Or gypsum roses with bladed sharply defined edges.							
123.15	124.65	1.50	GRD	FG	Same as general lithology.							
124.65	125.12	0.47	GRD	FG	Two zones of strong white clay alteration with a small 7 cm interval of fresh granodiorite in the middle of the interval. In these zone of strong clay alteration there are small qurtz stringers and veinlets.							
125.12	126.15	1.03	GRD	FG	Same as general lithology							
126.15	126.68	0.53	GRD	FG	Zone of strong white clay alteration.							
126.68	127.00	0.32	GRD	FG	Same as general lithology							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
127.00	127.96	0.96	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There is also limonite coming in along fracture surfaces. The main vein zone is 127.24 - 127.58 m. The veins are white to light to dark grey quartz. Vein appears brecciated with fine grained pyrite that is clustered together as well as some trace galena.							
											Py	1
											Gn	0.1
127.96	129.10	1.14	GRD	FG	Same as the general lithology.							
129.10	130.58	1.48	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. Main zones of veining are at 129.40 - 129.54 m and 130.18 - 130.35 m. The first vein is white to light grey to clear quartz with pyrite - 1%. The second vein is white to light grey to dark grey and appears brecciated. The vein contains pyrite, sphalerite and galena all of which are blebby.							
											Py	1.5
											Sp	1
											Gn	0.1
130.58	139.10	8.52	GRD	FG	Same as general lithology.							
139.10	139.40	0.30	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The vein zone is at 139.23 - 139.34 m. Quartz is white to light grey to dark grey with blebby pyrite as well as finer grained pyrite that is occurring locally clustered together. There is also less sphalerite.							
											Sp	0.1
											Py	1
139.40	155.81	16.41	GRD	FG	Same as general lithology.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
155.81	156.02	0.21	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 155.85 - 155.99 m. White to light grey to dark grey quartz. Pyrite is occurring as fine grained but locally clustered together. There is also blebby sphalerite and either stibnite? Or possibly jamestonite? - very soft.							
											Py	2.5
											Sp	0.5
											Jm	0.5
156.02	157.66	1.64	GRD	FG	Same as the general lithology.							
157.66	158.09	0.43	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is 2.5 cm wide and is milky white with open space cavities in filled with light grey clay?							
158.09	192.75	34.66	GRD	FG	Same as general lithology except that there is now calcite occurring in fracturing throughout this interval. We also see chlorite coming in along fracture surfaces. At 172.40 - 175.30 m we see a very shallow fracture running down core axis and weak rubble in this interval.							
192.75	193.53	0.78	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is occurring at 192.97 - 193.13 m. The quartz is white to light grey to dark grey and appears brecciated. There is pyrite as well as sphalerite and galena. All are blebby. They are occurring together locally clustered in a 0.5 cm line. At the lower contact of this interval there is a small gouge zone (3 cm wide).							
											Sp	0.7
											Gn	0.1
											Py	1
193.53	193.99	0.46	GRD	FG	Same as general lithology.							
193.99	194.08	0.09	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are small quartz veinlets as well as stringers in this interval that are not mineralized.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
194.08	198.00	3.92	GRD	FG	Same as general lithology							
198.00	198.32	0.32	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. White to light grey to dark grey quartz. Vein appears brecciated. There is blebby pyrite occurring in this vein. Main quartz vein is at 198.06 - 198.10 m.							
											Py	0.5
198.32	206.76	8.44	GRD	FG	Same as general lithology except there is calcite infilling fractures throughout this interval.							
206.76	206.90	0.14	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. At the upper contact we see 3 cm of gouge. The main quartz vein is at 206.80 - 206.82 m. The vein is white to light grey and appears brecciated. There is blebby pyrite occurring in this quartz vein as well.							
											Py	0.5
206.90	212.54	5.64	GRD	FG	Same as general lithology. There is one quartz veinlet at 208.19 - 208.195 m. The quartz is white with blebby pyrite. Pyrite is occurring along the selvages of the vein. There are pyrite stringers in this interval as well.							
											Py	1
212.54	212.73	0.19	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 212.55 - 212.585 m. The quartz is dark grey to light grey and white. There is fine grained pyrite that is locally clustered together. At the lower contact there is a local pyrite veinlet that swells locally to 1 cm wide and shinks to 0.5 cm wide. E							
											Py	1
212.73	218.54	5.81	GRD	FG	Same as general lithology. The lower contact is strongly clay altered from 218.46 to 218.54 m. There is a local bleb of epidote in this interval occurring with light pink and clear blebby quartz.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
218.54	224.53	5.99	QFP	FG	QFP dyke that is dark brown / purple to medium brown/ grey. The phenocrysts in this interval are made up of glassy grey quartz as well as clay altered phenocrysts (feldspars). Some of the quartz phenocryststs in with interval are rimmed with clay aleration (feldspar). This interval has patchy pervasive hematite alteration giving the core the dark brown purple coloration.							
						MD	BN					
						DK	BN	PO	HEM	3I		
						DK	PU		CLY	2I		
224.53	225.45	0.92	GRD	FG	Small zone of granodiorite seperating the QFP dyke. Predominanlty this interval is strongly white clay altered but there is also some dark grey un-altered granodiorite in the middle of the interval as well. Sharp lower contact with dyke that is irregularly shaped. There is disseminated black biotite in this interval.							
						LT	WH		CLY	4I	Bi	0.5
						DK	GY					
225.45	242.65	17.20	QFP	FG	QFP dyke that ranges in color from a medium brown/ grey at the upper contact and then grading into medium grey / green/ buff we also see a dark brown purple coloration due to local pervasive hematite staining. The phenocrysts in this interval are glassy grey quartz as well as clay altered phenocrysts that range in color from white to light green as well as locally light pink to red due to hematite. There is local limonite alteration coming in along fracture surfaces. There are also local fine grained xenoliths occurring in this interval.							
						MD	GY	PO	CLY	3I		
						LT	WH					
						LT	GN					
						LT	GY		HEM	3I		
						DK	BR		LIM	1I		
						DK	PU					
242.65	243.84	1.19	GRD	FG	Same as general lithology.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
243.84	244.33	0.49	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is occurring at 244.24 - 244.28 m. The quartz is white to light grey to dark grey and is locally forming bands like in chalcedony. In this vein there is blebby pyrite and sphalerite occurring together. There is also a quartz stringer with hematite staining forming a band near the start of the interval.							
											Py	1.5
											Sp	0.5
244.33	245.35	1.02	GRD	FG	Same as general lithology.							
245.35	245.46	0.11	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There is no main vein in this zone its just a series of stringers and veinlets. Veins are white to cream colored there is blebby pyrite, sphalerite and galena in these veins.							
											Sp	0.7
											Gn	0.1
											Py	1.5
245.46	246.15	0.69	GRD	FG	Same as general lithology. There is a quartz veinlet in this interval near the end of the interval that has medium green chloritic halo.							
246.15	246.97	0.82	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 246.52 - 246.62 m but is made up of 3 different quartz veinlets. In these veinlets three are blebby pyrite, sphalerite and galena. There is patchy pervasive limonite alteration coming in along fracture surfaces. There is also local gouge at 246.43 -246.48 m.							
											Py	1.5
											Sp	0.7
											Gn	0.1
246.97	249.06	2.09	GRD	FG	Same as general lithology.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
249.06	249.38	0.32	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are two veins in this interval at - 249.15 - 249.17 m and 249.32 - 249.34 m. Quartz veins are white to light grey to dark grey. There is fine grained pyrite that is locall clustered together. There is also blebby sphalerite -trace.							
											Py	0.5
											Sp	0.1
249.38	257.38	8.00	GRD	FG	Same as general lithology.							
257.38	257.91	0.53	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is at 257.82 - 257.91 m. Gouge at the upper contact for 5 cm wide. Vein is dark grey to light grey to white. The vein has the banded texture like chalcedony. Near the lower contact we see blebby pyrite and sphalerite occurring together.							
											Py	1
											Sp	1
257.91	259.30	1.39	GRD	FG	Same as the general lithology.							
259.30	259.87	0.57	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are 4 separate quartz veins in this interval that range in size from 2 mm to 2 cm wide. The veins are white, light grey to dark grey. There is blebby pyrite occurring near the lower contact. In the middle of this interval we have decomposed granodiorite that is almost gouge like.							
											Py	0.5
259.87	277.24	17.37	GRD	FG	Same as general lithology. There is a small strongly white clay altered zone at 260.05 - 206.15 m with a small quartz veinlet. There is a quartz/ pyrite stringer at 271.35 m.							
277.24	277.84	0.60	VEN	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The zone is also sheared - 20 degrees tca. Quartz vein is at 277.47 - 277.50 m. White to light grey to dark grey quartz.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
277.84	278.63	0.79	GRD	FG	Same as general lithology. There is a sharp contact with coarse grained granodiorite.							
278.63	281.10	2.47	GRD	CG	Dark grey to medium grey with green coarse grained granodiorite. This granodiorite is fairly fresh and unaltered besides the chloritic alteration coming in along fracture surfaces. There is weak potassic alteration as well as some white clay alteration coming in along fracture surfaces.							
						MD	GY		CLY	1I		
						LT	PK	PH	CHL	3I		
						DK	GY					
						DK	GN					
281.10	282.20	1.10	VEN	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered as well as light blue/ green in color. The main zone of quartz veining is at 281.84 - 282.12 m. Quartz veining is white to light grey to dark grey cherty looking quartz. There is blebby pyrite as well as galena. There is also fine grained pyrite occurring locally.							
											Py	1.5
											Gn	0.5
282.20	288.96	6.76	GRD	CG	Zone of less altered granodiorite except for blebby chloritic alteration as well weak potassic alteration.							
288.96	289.69	0.73	VEN	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz veining is at 299.26 - 299.39 m There are 3 separate quartz veins in this interval. The quartz veins are white to light grey to dark grey. There is fine grained locally clustered pyrite and arsenopyrite? As well as minor galena in the quartz.							
											Py	1
											As	0.5
											Gn	0.1
289.69	291.37	1.68	GRD	CG	Zone of less altered more fresh granodiorite. There is blebby chloritic alteration also coming in along fracture surfaces. There is also weak potassic alteration. There is a local quartz/ k-feldspar dyke/ vein at 291.14 - 291.22 m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
291.37	292.54	1.17	GRD	CG	Mixed zone of alteration with local strong white clay alteration as well as strongly silica flooded with pervasive hematite staining turning the core a light buff to a dark purple / brown. There is a quartz vein at 292.33 - 292.35 m. Quartz vein has light grey and white quartz with pyrite, galena and sphalerite.							
											Gn	0.1
											Py	1
											Sp	0.1
292.54	294.40	1.86	GRD	FG	Silica flooded granodiorite that is light purple / brown in color to light grey/ buff. There is also local hematite in this interval.							
294.40	295.74	1.34	VEN	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. Main quartz veining zone is at 295.26 to 295.39 m. There are 3 separate sulphide veins with blebby pyrite, sphalerite as well as galena.							
											Py	3
											Gn	0.5
											Sp	0.1
295.74	299.40	3.66	GRD	CG	Zone of less altered granodiorite except for the blebby chloritic alteration as well as weak potassic alteration (locally looks very dioritic in nature). There is a quartz vein at 296.51 - 296.515 m with pyrite inside the vein. There is a 7 cm alteration halo around the vein.							
											Py	0.1
299.40	301.00	1.60	GRD	CG	Zone of pervaisve potassic alteration or hematite? But appears to be light pink to purple in coloration with a sharp upper and lower contact.							
301.00	303.28	2.28	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration. Theres also chlorite occurring as halos around fractures. There is weak potassic alteration in this interval as well. Thre is a local quartz vein with blebby pyrite at 301.98 - 301.99 m. The quartz is white with chloritic selvages and pyrite up to 1.5%.							
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.14	1.14	CAS	---	--	No core recovered - casing.
1.14	3.05	1.91	OVB	OVB	FG	OVB - Rounded core and re-drilled.
3.05	9.04	5.99	QFP	DYK	FG	This part of the interval is prevasively limonite altered with black MnOx coming in along fracture surfaces as well - moderately. Most of this interval is broken and rubbled. There is light grey quartz veinlets in this interval as well.
9.04	10.81	1.77	BXA	DYK	FG	Brecciated zone of dyke. This zone is pervasively limonite alterated as well.
10.81	15.29	4.48	QFP	DYK	FG	Pervasively limonite altered QFP dyke with local hematite. We also see black MnOx coming in along fracture surfaces.
15.29	20.80	5.51	BXA	DYK	FG	Zone of weakly brecciated QFP dyke. This interval is also pervasively limonite altered with local hematite alteration as well.
20.80	23.33	2.53	QFP	DYK	FG	Becoming less limonite altered with limonite becoming patchy and only locally pervasive.
23.33	24.55	1.22	BXA	DYK	FG	Moderately brecciated QFP dyke with patch limonite staining.
24.55	26.35	1.80	QFP	DYK	FG	QFP dyke that is light green/ grey and only has minor limonite alteration coming in along fracture surfaces. Hematite altereation is at the upper contact.
26.35	33.57	7.22	BXA	DYK	FG	Brecciated QFP dyke with patchy pervasive hematite alteration giving the core a dark purple brown color to a red-brown color.
33.57	35.07	1.50	GRD	GRDA	FG	Very altered granodiorite? It is light grey to blue in color and is fairly soft - pervasive clay alteration? The unit is very fine grained and brecciated locally. At the lower contact we see a strong breccia with predominantly goue and clasts floating in the gouge.
35.07	37.52	2.45	BXA	GRDA	FG	Very gouge rich breccia with clasts floating in the gouge. Dark green to dark brown with zones of light brown. Appears to be locally chloritic. There is local white quartz veining in this interval occurring as clasts.
37.52	41.01	3.49	GRD	GRDA	MG	A very altered granodiorite. Light grey to light blue in color due to strong pervasive clay alteration. There is also patchy pervasive limonite alteration coming in along fracture surfaces. There light grey and white quartz veining in this interval throughout (stringers to veinlets). There is also black MnOx coming in along fracture surfaces locally.
41.01	44.68	3.67	GRD	FLT	FG	Fault zone with granodiorite. Pervasively limonite altered. Fault is made up of rubble predominantly - 80% with Competent core - 20%. There are also two small quartz veinlets in this interval that are milky white to light grey with dark brown FeOx of some kind.
44.68	51.17	6.49	GRD	GRD	FG	Medium to dark grey fine grained fresh, unaltered granodiorite. There is local patches of alteration but mostly fresh. We have limonite coming in along fracture surfaces locally pervasive. There is also patchy white clay alteration coming in around the lower contact.
51.17	51.50	0.33	GRD	FLT	FG	Breccia zone with strong gouge with clasts floating in it. It is pervasively limonite altered.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
51.50	73.35	21.85	GRD	GRD	FG	Light to medium grey fine grained granodiorite that is fresh and only weakly altered. Limonite is coming in along fracture surfaces. There is local white to grey quartz veining. Locally there is weak local white clay alteration usually near a frature. There is disseminated black biotite throughout this interval. At 62.11 - 62.17 there is a zone of gouge that is pervasive limonite altered. 67.17 - 67.30 m there is another zone of pervasive limonite alteration of gouge.
73.35	74.86	1.51	GRD	FLT	FG	Small fault zone hosted in fine grained granodiorite that is pervasively limonite altered. Gouge - 75%, competent core - 10%, and rubble - 15%.
74.86	77.97	3.11	GRD	GRD	FG	Same as general lithology. There is a smal rubble zone at 76.42 - 76.47 m that is prevasively limonite altered.
77.97	79.85	1.88	GRD	GRD	FG	Small broken up zone with local rubble patches. Competent core - 70%, Rubble - 30%.
79.85	80.79	0.94	GRD	GRD	FG	Weakly brecciated zone with gouge along the fracture surfaces and at the end of this interval there is a 9 cm wide gouge zone with small clasts floating in the gouge.
80.79	81.07	0.28	GRD	GRD	FG	Same as general lithology.
81.07	81.17	0.10	GRD	GRD	FG	There is a small quartz vein - 1.5 cm wide with a small shear with gouge along the fracture surfaces.
81.17	85.82	4.65	GRD	GRD	FG	Same as general lith.
85.82	85.87	0.05	VEN	GRD	FG	White and dark grey quartz with brecciation at the lower contact as well as fine grained pyrite that is locally clustered together.
85.87	86.36	0.49	GRD	GRD	FG	Same as general lithology.
86.36	87.03	0.67	GRD	GRD	FG	Zone of strong white clay alteration after 86.87 m we see some faulting with gouge and decomposed granodiorite.
87.03	90.00	2.97	GRD	GRD	FG	Same as general lithology.
90.00	90.63	0.63	GRD	GRD	FG	Zone of strong white clay alteration. There is also a quartz vein in this interval at 90.52 - 90.56 m. White to light grey to dark grey quartz with disseminated coarse grained pyrite occurring in bands.
90.63	101.47	10.84	GRD	GRD	FG	Same as general lithology.
101.47	105.12	3.65	GRD	FLT	FG	Fault zone with gouge and rubble predominantly. Gouge - 60%, Rubble - 20%, and competent core - 20%. There is also patchy limonite coming in along fracture surfaces at the end of this interval. There is pervasive hematite alteration at the lower contact as well.
105.12	105.81	0.69	VEN	GRD	FG	Zone of altered granodiorite that is bleached at the upper contact and at the lower contact there is white clay alteration. In the middle of the interval there is a quartz vein that is at 105.66 - 105.71 m. The vein is white with light grey to dark grey with limonite coming in along fracture surfaces. There is trace blebby pyrite occurring along the vein selvage.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
105.81	114.55	8.74	GRD	GRD	FG	Same as general lithology. There are 4 quartz veinlet in this interval with pyrite. The first one is at 106.64 - 106.74 m - shallowly dipping quartz vein that is white with blebby pyrite - 0.5%. The second one is at 107.02 - 107.10 m - shallowly dipping quartz vein. The quartz is light grey to white with blebby trace pyrite. The third is at 112.14 - 112.18 m that is 1 cm wide and is light grey glassy to white with blebby pyrite - 0.5%. The final vein is at 112.74 - 112.80 m and is 0.5 cm wide and has 1.5% blebby pyrite.
114.55	114.88	0.33	GRD	GRD	FG	Altered zone of granodiorite that is moderately to strongly white clay altered grading into a strong limonite alteration with a 11 cm gouge and rubble zone.
114.88	115.55	0.67	GRD	GRD	FG	Same as general lithology
115.55	116.17	0.62	VEN	GRD	FG	Zone of strong white clay alteration with a quartz vein/ sulphide zone at 115.82 - 115.95 m. The vein is white to light grey to dark grey with blebby fine grained pyrite.
116.17	123.00	6.83	GRD	GRD	FG	Same as general lithology.
123.00	123.15	0.15	VEN	GRD	FG	Zone of altered granodiorite with a quartz vein in the middle of the interval at 123.07 - 123.10 m. Quartz vein is white with large open space cavitiy that is infilled with baryite? Or gypsum roses with bladed sharply defined edges.
123.15	124.65	1.50	GRD	GRD	FG	Same as general lithology.
124.65	125.12	0.47	GRD	GRD	FG	Two zones of strong white clay alteration with a small 7 cm interval of fresh granodiorite in the middle of the interval. In these zone of strong clay alteration there are small qurtz stringers and veinlets.
125.12	126.15	1.03	GRD	GRD	FG	Same as general lithology
126.15	126.68	0.53	GRD	GRD	FG	Zone of strong white clay alteration.
126.68	127.00	0.32	GRD	GRD	FG	Same as general lithology
127.00	127.96	0.96	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There is also limonite coming in along fracture surfaces. The main vein zone is 127.24 - 127.58 m. The veins are white to light to dark grey quartz. Vein appears brecciated with fine grained pyrite that is clustered together as well as some trace galena.
127.96	129.10	1.14	GRD	GRD	FG	Same as the general lithology.
129.10	130.58	1.48	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. Main zones of veining are at 129.40 - 129.54 m and 130.18 - 130.35 m. The first vein is white to light grey to clear quartz with pyrite - 1%. The second vein is white to light grey to dark grey and appears brecciated. The vein contains pyrite, sphalerite and galena all of which are blebby.
130.58	139.10	8.52	GRD	GRD	FG	Same as general lithology.
139.10	139.40	0.30	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The vein zone is at 139.23 - 139.34 m. Quartz is white to light grey to dark grey with blebby pyrite as well as finer grained pyrite that is occurring locally clustered together. There is also less sphalerite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
139.40	155.81	16.41	GRD	GRD	FG	Same as general lithology.
155.81	156.02	0.21	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 155.85 - 155.99 m. White to light grey to dark grey quartz. Pyrite is occurring as fine grained but locally clustered together. There is also blebby sphalerite and either stibnite? Or possibly jamestonite? - very soft.
156.02	157.66	1.64	GRD	GRD	FG	Same as the general lithology.
157.66	158.09	0.43	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is 2.5 cm wide and is milky white with open space cavities in filled with light grey clay?
158.09	192.75	34.66	GRD	GRD	FG	Same as general lithology except that there is now calcite occurring in fracturing throughout this interval. We also see chlorite coming in along fracture surfaces. At 172.40 - 175.30 m we see a very shallow fracture running down core axis and weak rubble in this interval.
192.75	193.53	0.78	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is occurring at 192.97 - 193.13 m. The quartz is white to light grey to dark grey and appears brecciated. There is pyrite as well as sphalerite and galena. All are blebby. They are occurring together locally clustered in a 0.5 cm line. At the lower contact of this interval there is a small gouge zone (3 cm wide).
193.53	193.99	0.46	GRD	GRD	FG	Same as general lithology.
193.99	194.08	0.09	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are small quartz veinlets as well as stringers in this interval that are not mineralized.
194.08	198.00	3.92	GRD	GRD	FG	Same as general lithology
198.00	198.32	0.32	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. White to light grey to dark grey quartz. Vein appears brecciated. There is blebby pyrite occurring in this vein. Main quartz vein is at 198.06 - 198.10 m.
198.32	206.76	8.44	GRD	GRD	FG	Same as general lithology except there is calcite infilling fractures throughout this interval.
206.76	206.90	0.14	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. At the upper contact we see 3 cm of gouge. The main quartz vein is at 206.80 - 206.82 m. The vein is white to light grey and appears brecciated. There is blebby pyrite occurring in this quartz vein as well.
206.90	212.54	5.64	GRD	GRD	FG	Same as general lithology. There is one quartz veinlet at 208.19 - 208.195 m. The quartz is white with blebby pyrite. Pyrite is occurring along the selvages of the vein. There are pyrite stringers in this interval as well.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
212.54	212.73	0.19	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 212.55 - 212.585 m. The quartz is dark grey to light grey and white. There is fine grained pyrite that is locally clustered together. At the lower contact there is a local pyrite veinlet that swells locally to 1 cm wide and shinks to 0.5 cm wide. E
212.73	218.54	5.81	GRD	GRD	FG	Same as general lithology. The lower contact is strongly clay altered from 218.46 to 218.54 m. There is a local bleb of epidote in this interval occurring with light pink and clear blebby quartz.
218.54	224.53	5.99	QFP	DYK	FG	QFP dyke that is dark brown / purple to medium brown/ grey. The phenocrysts in this interval are made up of glassy grey quartz as well as clay altered phenocrysts (feldspars). Some of the quartz phenocryststs in with interval are rimmed with clay aleration (feldspar). This interval has patchy pervasive hematite alteration giving the core the dark brown purple coloration.
224.53	225.45	0.92	GRD	GRDA	FG	Small zone of granodiorite seperating the QFP dyke. Predominanlty this interval is strongly white clay altered but there is also some dark grey un-altered granodiorite in the middle of the interval as well. Sharp lower contact with dyke that is irregularly shaped. There is disseminated black biotite in this interval.
225.45	242.65	17.20	QFP	DYK	FG	QFP dyke that ranges in color from a medium brown/ grey at the upper contact and then grading into medium grey / green/ buff we also see a dark brown purple coloration due to local pervasive hematite staining. The phenocrysts in this interval are glassy grey quartz as well as clay altered phenocrysts that range in color from white to light green as well as locally light pink to red due to hematite. There is local limonite alteration coming in along fracture surfaces. There are also local fine grained xenoliths occurring in this interval.
242.65	243.84	1.19	GRD	GRD	FG	Same as general lithology.
243.84	244.33	0.49	GRD	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is occurring at 244.24 - 244.28 m. The quartz is white to light grey to dark grey and is locally forming bands like in chalcedony. In this vein there is blebby pyrite and sphalerite occurring together. There is also a quartz stringer with hematite staining forming a band near the start of the interval.
244.33	245.35	1.02	GRD	GRD	FG	Same as general lithology.
245.35	245.46	0.11	GRD	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There is no main vein in this zone its just a series of stringers and veinlets. Veins are white to cream colored there is blebby pyrite, sphalerite and galena in these veins.
245.46	246.15	0.69	GRD	GRD	FG	Same as general lithology. There is a quartz veinlet in this interval near the end of the interval that has medium green chloritic halo.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
246.15	246.97	0.82	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz vein is at 246.52 - 246.62 m but is made up of 3 different quartz veinlets. In these veinlets three are blebby pyrite, sphalerite and galena. There is patchy pervasive limonite alteration coming in along fracture surfaces. There is also local gouge at 246.43 -246.48 m.
246.97	249.06	2.09	GRD	GRD	FG	Same as general lithology.
249.06	249.38	0.32	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are two veins in this interval at - 249.15 - 249.17 m and 249.32 - 249.34 m. Quartz veins are white to light grey to dark grey. There is fine grained pyrite that is locall clustered together. There is also blebby sphalerite -trace.
249.38	257.38	8.00	GRD	GRD	FG	Same as general lithology.
257.38	257.91	0.53	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The quartz vein is at 257.82 - 257.91 m. Gouge at the upper contact for 5 cm wide. Vein is dark grey to light grey to white. The vein has the banded texture like chalcedony. Near the lower contact we see blebby pyrite and sphalerite occurring together.
257.91	259.30	1.39	GRD	GRD	FG	Same as the general lithology.
259.30	259.87	0.57	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. There are 4 separate quartz veins in this interval that range in size from 2 mm to 2 cm wide. The veins are white, light grey to dark grey. There is blebby pyrite occurring near the lower contact. In the middle of this interval we have decomposed granodiorite that is almost gouge like.
259.87	277.24	17.37	GRD	GRD	FG	Same as general lithology. There is a small strongly white clay altered zone at 260.05 - 206.15 m with a small quartz veinlet. There is a quartz/ pyrite stringer at 271.35 m.
277.24	277.84	0.60	VEN	GRD	FG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The zone is also sheared - 20 degrees tca. Quartz vein is at 277.47 - 277.50 m. White to light grey to dark grey quartz.
277.84	278.63	0.79	GRD	GRD	FG	Same as general lithology. There is a sharp contact with coarse grained granodiorite.
278.63	281.10	2.47	GRD	GRD	CG	Dark grey to medium grey with green coarse grained granodiorite. This granodiorite is fairly fresh and unaltered besides the chloritic alteration coming in along fracture surfaces. There is weak potassic alteration as well as some white clay alteration coming in along fracture surfaces.
281.10	282.20	1.10	VEN	GRDA	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered as well as light blue/ green in color. The main zone of quartz veining is at 281.84 - 282.12 m. Quartz veining is white to light grey to dark grey cherty looking quartz. There is blebby pyrite as well as galena. There is also fine grained pyrite occurring locally.
282.20	288.96	6.76	GRD	GRDA	CG	Zone of less altered granodiorite except for blebby chloritic alteration as well weak potassic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
288.96	289.69	0.73	VEN	GRDA	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. The main quartz veining is at 299.26 - 299.39 m There are 3 separate quartz veins in this interval. The quartz veins are white to light grey to dark grey. There is fine grained locally clustered pyrite and arsenopyrite? As well as minor galena in the quartz.
289.69	291.37	1.68	GRD	GRDA	CG	Zone of less altered more fresh granodiorite. There is blebby chloritic alteration also coming in along fracture surfaces. There is also weak potassic alteration. There is a local quartz/ k-feldspar dyke/ vein at 291.14 - 291.22 m.
291.37	292.54	1.17	GRD	GRDA	CG	Mixed zone of alteration with local strong white clay alteration as well as strongly silica flooded with pervasive hematite staining turning the core a light buff to a dark purple / brown. There is a quartz vein at 292.33 - 292.35 m. Quartz vein has light grey and white quartz with pyrite, galena and sphalerite.
292.54	294.40	1.86	GRD	GRDA	FG	Silica flooded granodiorite that is light purple / brown in color to light grey/ buff. There is also local hematite in this interval.
294.40	295.74	1.34	VEN	GRDA	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered. Main quartz veining zone is at 295.26 to 295.39 m. There are 3 separate sulphide veins with blebby pyrite, sphalerite as well as galena.
295.74	299.40	3.66	GRD	GRDA	CG	Zone of less altered granodiorite except for the blebby chloritic alteration as well as weak potassic alteration (locally looks very dioritic in nature). There is a quartz vein at 296.51 - 296.515 m with pyrite inside the vein. There is a 7 cm alteration halo around the vein.
299.40	301.00	1.60	GRD	GRDA	CG	Zone of pervaisve potassic alteration or hematite? But appears to be light pink to purple in coloration with a sharp upper and lower contact.
301.00	303.28	2.28	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration. Theres also chlorite occurring as halos around fractures. There is weak potassic alteration in this interval as well. Thre is a local quartz vein with blebby pyrite at 301.98 - 301.99 m. The quartz is white with chloritic selvages and pyrite up to 1.5%.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.14	1.14	CAS	--	No core recovered - casing.							
1.14	3.05	1.91	OVB	FG	OVB - Rounded core and re-drilled as well as some residual soil.							
						MD	OR		LIM	4I		
						DK	OR					
3.05	33.57	30.52	QFP	FG	Strongly altered QFP dyke. Predominantly limonite altered (pervasively). The phenocrysts are clay altered - white and light green. Local there is MnOx coming in along fracture surfaces. Locally brecciated.							
						LT	GN					
						MD	OR	PO	LIM	5I		
						DK	OR		MNO	1I		
						DK	BL		CLY	3I		
						LT	GY					
33.57	35.07	1.50	GRD	FG	Very altered granodiorite? It is light grey to blue in color and is fairly soft - pervasive clay alteration? The unit is very fine grained and brecciated locally. At the lower contact we see a strong breccia with predominantly goue and clasts floating in the gouge.							
						LT	WH					
						LT	GY	AN	CLY	4I		
						LT	BL					
35.07	37.52	2.45	BXA	FG	Very gouge rich breccia with clasts floating in the gouge. Dark green to dark brown with zones of light brown. Appears to be locally chloritic. There is local white quartz veining in this interval occurring as clasts.							
						LT	BR					
						DK	BR					
						DK	GN					
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
37.52	41.01	3.49	GRD	MG	A very altered granodiorite. Light grey to light blue in color due to strong pervasive clay alteration. There is also patchy pervasive limonite alteration coming in along fracture surfaces. There light grey and white quartz veining in this interval throughout (stringers to veinlets). There is also black MnOx coming in along fracture surfaces locally.							
						MD	OR					
						DK	OR					
						LT	BL		CLY	5I		
						LT	GY		LIM	4I		
41.01	44.68	3.67	GRD	FG	Fault zone with granodiorite. Pervasively limonite altered. Fault is made up of rubble predominantly - 80% with Competent core - 20%. There are also two small quartz veinlets in this interval that are milky white to light grey with dark brown FeOx of some kind.							
						MD	OR					
						DK	OR		LIM	5I		
44.68	51.17	6.49	GRD	FG	Medium to dark grey fine grained fresh, unaltered granodiorite. There is local patches of alteration but mostly fresh. We have limonite coming in along fracture surfaces locally pervasive. There is also patchy white clay alteration coming in around the lower contact.							
						DK	GY	AN	LIM	3I		
						MD	GY		CLY	2I		
51.17	51.50	0.33	GRD	FG	Breccia zone with strong gouge with clasts floating in it. It is pervasively limonite altered.							
						MD	OR		LIM	5I		
						DK	OR					
51.50	73.35	21.85	GRD	FG	Light to medium grey fine grained granodiorite that is fresh and only weakly altered. Limonite is coming in along fracture surfaces. There is local white to grey quartz veining. Locally there is weak local white clay alteration usually near a frature. There is disseminated black biotite throughout this interval. At 62.11 - 62.17 there is a zone of gouge that is pervasive limonite altered. 67.17 - 67.30 m there is another zone of pervasive limonite alteration of gouge.							
						DK	GY		CLY	1I		
						DK	OR					
						MD	GY	---	LIM	2I	Bi	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	OR					
73.35	74.86	1.51	GRD	FG	Small fault zone hosted in fine grained granodiorite that is pervasively limonite altered. Gouge - 75%, competent core - 10%, and rubble - 15%.							
						DK	OR					
						MD	OR					
74.86	101.47	26.61	GRD	FG	Medium to dark grey fine grained granodiorite that is fresh and fairly unaltered. There is disseminated black biotite. There is limonite coming in along fracture surfaces as well there is local patches of pervasive limonite. There is calcite and quartz veinlets and stringers throughout the interval. There is also local white clay alteration. There is also weak sections of faulting and minor gouge at 80.68 - 80.77 m.							
						MD	OR					
						LT	GY		LIM	3I	Bi	0.5
						MD	GY		CLY	2I		
						DK	GY					
						LT	WH					
						DK	OR					
101.47	105.12	3.65	GRD	FG	Fault zone with gouge and rubble predominantly. Gouge - 60%, Rubble - 20%, and competent core - 20%. There is also patchy limonite coming in along fracture surfaces at the end of this interval. There is pervasive hematite alteration at the lower contact as well.							
						DK	GY		HEM	1I		
						MD	OR					
						DK	OR					
						DK	BR					
						MD	GY		LIM	3I		
105.12	218.54	113.42	GRD	FG	Medium to dark grey, fine grained, fresh granodiorite. There is local zones of white clay alteration coming in near fractures. There are also white quartz veining with pyrite. There is disseminated black biotite throughout out this interval.							
						MD	OR					
						DK	OR					
						DK	GY					
						MD	GY				Bi	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
218.54	224.53	5.99	QFP	FG	QFP dyke that is dark brown / purple to medium brown/ grey. The phenocrysts in this interval are made up of glassy grey quartz as well as clay altered phenocrysts (feldspars). Some of the quartz phenocryststs in with interval are rimmed with clay aleration (feldspar). This interval has patchy pervasive hematite alteration giving the core the dark brown purple coloration.							
						DK	PU		CLY	2I		
						MD	BN					
						DK	BN	PO	HEM	3I		
224.53	225.45	0.92	GRD	FG	Small zone of granodiorite seperating the QFP dyke. Predominanlty this interval is strongly white clay altered but there is also some dark grey un-altered granodiorite in the middle of the interval as well. Sharp lower contact with dyke that is irregularly shaped. There is disseminated black biotite in this interval.							
						LT	WH		CLY	4I	Bi	0.5
						DK	GY					
225.45	242.65	17.20	QFP	FG	QFP dyke that ranges in color from a medium brown/ grey at the upper contact and then grading into medium grey / green/ buff we also see a dark brown purple coloration due to local pervasive hematite staining. The phenocrysts in this interval are glassy grey quartz as well as clay altered phenocrysts that range in color from white to light green as well as locally light pink to red due to hematite. There is local limonite alteration coming in along fracture surfaces. There are also local fine grained xenoliths occurring in this interval.							
						DK	PU					
						LT	WH					
						LT	GN					
						LT	GY		HEM	3I		
						MD	GY	PO	CLY	3I		
						DK	BR		LIM	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
242.65	278.63	35.98	GRD	FG	Dark grey to medium grey fine grained granodiorite that is fairly fresh and unaltered. There are local zones of alteration around quartz veins predominantly that are strongly white clay altered. Along fracture surfaces we see chloritic alteration as well locally there is limonite coming in along fracture surfaces as well. This interval has disseminated black biotite throughout the unit. The upper contact with the dyke is sharp and irregularly shaped. The granodiorite is unaltered at this contact. Near the upper contact there is a large xenolith of dyke in the granodiorite at 243.23 - 243.30 m. There is also fracturing infilled with calcite throughout this interval. There is local chloritic alteration coming in along fracture surfaces as well.							
						DK	GY		CLY	2I	Bi	0.5
						LT	GY		LIM	1I		
						LT	WH					
278.63	281.10	2.47	GRD	CG	Dark grey to medium grey with green coarse grained granodiorite. This granodiorite is fairly fresh and unaltered besides the chloritic alteration coming in along fracture surfaces. There is weak potassic alteration as well as some white clay alteration coming in along fracture surfaces.							
						DK	GY					
						DK	GN					
						MD	GY		CLY	1I		
						LT	PK	PH	CHL	3I		
281.10	282.20	1.10	VEN	CG	Quartz vein zone as well as its alteration halo around the quartz veining. The halo is strongly white clay altered as well as light blue/ green in color. The main zone of quartz veining is at 281.84 - 282.12 m. Quartz veining is white to light grey to dark grey cherty looking quartz. There is blebby pyrite as well as galena. There is also fine grained pyrite occurring locally.							
											Gn	0.5
											Py	1.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
282.20	303.28	21.08	GRD	CG	Coarse grained variably altered granodiorite. There is less altered granodiorite zones with blebby chloritic alteration as well as weak potassic alteration. There are also zones of strong white to light blue clay alteration. There is also areas that have been silica flooded and hematite altered or with light pink potassic alteration.							
						MD	PK					
						DK	GN	PH	CLY	3I		
						DK	GY		CHL	3I		
						LT	GY		POT	2I		
						LT	PK					
						LT	WH					
						MD	BN					
						MD	PU					

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.14	1.14	0	0	0.00	0	--	--	--	
1.14	1.52	0.38	0.37	97	0.00	0	--	2H	5W	
1.52	3.04	1.52	0.65	43	0.00	0	--	2H	6W	
3.04	4.57	1.53	0.98	64	0.00	0	--	2H	6W	soil/ clay and rubble
4.57	6.09	1.52	1.39	91	0.00	0	--	2H	6W	several almost vertical (65 degrees) slightly curved joint sets in this run, between 2-7 cm wide
6.09	7.62	1.53	1.48	97	0.15	10	--	2H	4W	
7.62	9.14	1.52	1.49	98	0.31	20	--	3H	3W	
9.14	10.67	1.53	0.77	50	0.28	18	--	2H	2W	clay fault gouge
10.67	12.19	1.52	1.48	97	0.15	10	--	3H	2W	
12.19	13.72	1.53	1.49	97	0.67	44	--	3H	2W	
13.72	15.24	1.52	1.47	97	0.56	37	--	3H	2W	
15.24	16.76	1.52	1.52	100	0.79	52	--	2H	2W	
16.76	18.29	1.53	1.51	99	0.33	22	--	3H	2W	
18.29	19.81	1.52	1.45	95	0.37	24	--	2H	1W	
19.81	21.34	1.53	1.45	95	0.43	28	--	2H	1W	clay fault breccia
21.34	22.86	1.52	1.51	99	0.59	39	--	3H	1W	
22.86	24.38	1.52	1.47	97	0.51	34	--	3H	1W	
24.38	25.91	1.53	1.47	96	0.89	58	--	3H	1W	
25.91	27.43	1.52	1.45	95	0.45	30	--	2H	1W	clay fault gouge/ breccia
27.43	28.96	1.53	1.47	96	0.55	36	--	3H	1W	
28.96	30.48	1.52	1.49	98	0.81	53	--	2H	1W	brecciated clay altered fault
30.48	33.53	3.05	2.48	81	0.14	5	--	2H	2W	clay brecciated fault gouge and rubble
33.53	35.05	1.52	1.45	95	0.60	39	--	2H	1W	
35.05	38.10	3.05	2.96	97	1.07	35	--	2H	2W	
38.10	41.15	3.05	2.96	97	1.51	50	--	3H	2W	
41.15	44.20	3.05	2.98	98	0.14	5	--	2H	3W	oxidized and fractured rubble
44.20	47.24	3.04	2.96	97	1.30	43	--	3H	2W	some oxidized rubble
47.24	48.77	1.53	1.51	99	0.80	52	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
48.77	51.82	3.05	2.88	94	0.89	29	--	2H	2W	oxidized clay fault gouge and weathered granodiorite rubble. Some competent pieces of core in section with thin calcite veins and rusty oxide on fracture and joint surfaces
51.82	54.86	3.04	2.74	90	0.28	9	--	3H	1W	
54.86	56.39	1.53	1.51	99	0.16	10	--	3H	1W	
56.39	59.44	3.05	2.96	97	1.70	56	--	3H	2W	oxidized clay and fracture surfaces
59.44	62.48	3.04	3.02	99	0.92	30	--	3H	2W	
62.48	65.53	3.05	3.02	99	1.66	54	--	3H	1W	
65.53	68.58	3.05	3	98	1.28	42	--	3H	1W	some oxidized clay gouge and oxidized fracture surfaces
68.58	71.63	3.05	2.89	95	0.58	19	--	3H	1W	
71.63	74.68	3.05	2.99	98	0.36	12	--	3H	3W	oxidized clay gouge in section
74.68	77.72	3.04	3	99	1.34	44	--	3H	2W	
77.72	80.77	3.05	3.02	99	0.14	5	--	2H	2W	weathered rubble and soil
80.77	83.82	3.05	2.97	97	0.94	31	--	3H	1W	
83.82	86.87	3.05	2.94	96	1.25	41	--	3H	1W	lots of calcite veining within medium grained granodiorite
86.87	89.92	3.05	2.95	97	1.15	38	--	3H	1W	clay fault gouge/ rubble
89.92	92.96	3.04	2.9	95	1.69	56	--	3H	2W	some oxidized clay gouge at contact with vein/ dyke and granodiorite as well as oxidized alteration haloes on either side of thin veins within grano
92.96	96.01	3.05	2.97	97	1.44	47	--	3H	1W	
96.01	97.54	1.53	1.39	91	0.50	33	--	3H	1W	
97.54	100.58	3.04	2.94	97	0.21	7	--	3H	2W	
100.58	103.63	3.05	2.95	97	0.12	4	--	2H	1W	clay fault gouge
103.63	106.68	3.05	2.84	93	0.28	9	--	2H	3W	rusty clay fractured rubble. Some minor pyrite and possible very fine grained trace galena
106.68	108.20	1.52	1.48	97	0.31	20	--	3H	1W	rusty oxide on fracture/ joint surfaces
108.20	111.25	3.05	2.81	92	1.00	33	--	3H	2W	some rust orange brown oxide on fracture and some joint surfaces
111.25	114.30	3.05	2.87	94	1.56	51	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
114.30	117.35	3.05	3.02	99	1.46	48	--	3H	1W	small quartz vein with open cavaties/ vugs and sulphide (pyrite and trace galena) within. Follows joint orientation of 65 degrees
117.35	120.40	3.05	2.99	98	1.20	39	--	3H	1W	
120.40	123.44	3.04	2.9	95	1.62	53	--	3H	1W	open cavatie with euhedral barite and dolomite + calcite crystals within. Vein is approximately 5cm wide in fine grained granodiorite
123.44	126.49	3.05	2.82	92	1.71	56	--	3H	1W	
126.49	129.54	3.05	2.82	92	1.43	47	--	3H	1W	
129.54	132.59	3.05	2.81	92	1.83	60	--	4H	1W	
132.59	135.64	3.05	2.97	97	1.53	50	--	4H	1W	
135.64	138.68	3.04	2.94	97	1.55	51	--	4H	1W	
138.68	141.73	3.05	2.92	96	1.47	48	--	4H	1W	
141.73	144.78	3.05	2.93	96	1.88	62	--	4H	1W	
144.78	147.83	3.05	3.01	99	2.00	66	--	4H	1W	
147.83	150.88	3.05	2.98	98	1.61	53	--	4H	1W	
150.88	153.92	3.04	2.94	97	1.04	34	--	4H	1W	
153.92	156.97	3.05	2.96	97	1.37	45	--	4H	1W	
156.97	158.50	1.53	1.49	97	1.03	67	--	4H	1W	
158.50	161.54	3.04	2.95	97	1.38	45	--	4H	1W	
161.54	164.59	3.05	2.97	97	1.41	46	--	3H	1W	
164.59	167.64	3.05	2.88	94	1.40	46	--	3H	1W	calcite veining throughout rock, making it fracture very easily
167.64	170.69	3.05	2.88	94	0.74	24	--	3H	1W	
170.69	173.74	3.05	2.98	98	0.54	18	--	3H	1W	
173.74	176.78	3.04	2.99	98	0.29	10	--	3H	1W	fractured rubble
176.78	179.83	3.05	2.96	97	0.53	17	--	3H	1W	
179.83	182.88	3.05	2.97	97	1.29	42	--	3H	1W	
182.88	185.93	3.05	2.97	97	0.54	18	--	3H	1W	
185.93	188.98	3.05	2.99	98	0.54	18	--	3H	1W	
188.98	192.02	3.04	3.03	100	1.85	61	--	4H	1W	
192.02	195.07	3.05	2.96	97	2.14	70	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
195.07	198.12	3.05	3	98	1.85	61	--	4H	1W	
198.12	201.17	3.05	2.98	98	1.36	45	--	4H	1W	
201.17	204.22	3.05	3.02	99	1.79	59	--	4H	1W	
204.22	207.26	3.04	2.96	97	1.41	46	--	4H	1W	
207.26	210.31	3.05	3.02	99	1.39	46	--	4H	1W	no matching joint sets
210.31	213.36	3.05	3.04	100	2.46	81	--	4H	1W	
213.36	216.41	3.05	2.98	98	1.09	36	--	4H	1W	
216.41	219.46	3.05	2.96	97	1.72	56	--	4H	1W	
219.46	222.50	3.04	2.97	98	2.68	88	--	4H	1W	
222.50	225.55	3.05	2.95	97	1.29	42	--	3H	1W	
225.55	228.60	3.05	2.86	94	1.22	40	--	3H	1W	
228.60	231.65	3.05	2.91	95	1.57	51	--	3H	1W	
231.65	234.70	3.05	2.95	97	1.57	51	--	3H	1W	
234.70	237.74	3.04	2.94	97	1.87	62	--	3H	1W	
237.74	240.79	3.05	3	98	2.32	76	--	3H	1W	
240.79	243.84	3.05	2.96	97	1.97	65	--	4H	1W	
243.84	246.89	3.05	2.99	98	1.46	48	--	3H	1W	orange brown oxide on fracture/ joint surfaces and as an alteration halo on either side of fractures in light grey vein/ altered granodiorite
246.89	249.94	3.05	3.02	99	2.32	76	--	4H	1W	
249.94	252.98	3.04	3.03	100	2.03	67	--	4H	1W	
252.98	256.03	3.05	2.87	94	1.49	49	--	4H	1W	
256.03	257.56	1.53	1.52	99	1.16	76	--	4H	1W	no matching joint sets
257.56	260.60	3.04	2.95	97	2.22	73	--	4H	1W	
260.60	263.65	3.05	2.93	96	1.38	45	--	4H	1W	
263.65	266.70	3.05	2.94	96	0.88	29	--	4H	1W	
266.70	268.22	1.52	1.52	100	0.67	44	--	3H	1W	
268.22	271.27	3.05	2.92	96	0.80	26	--	3H	1W	
271.27	272.80	1.53	1.52	99	1.17	76	--	4H	1W	
272.80	275.84	3.04	3.04	100	2.68	88	--	4H	1W	
275.84	278.89	3.05	3.05	100	2.93	96	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
278.89	281.94	3.05	3.05	100	2.18	71	--	4H	1W	
281.94	284.99	3.05	3.05	100	1.94	64	--	4H	1W	
284.99	288.04	3.05	3.05	100	2.41	79	--	4H	1W	
288.04	291.08	3.04	3.04	100	2.86	94	--	4H	1W	
291.08	294.13	3.05	3.05	100	2.98	98	--	5H	1W	
294.13	297.18	3.05	3.05	100	2.67	88	--	5H	1W	
297.18	300.23	3.05	3.05	100	2.89	95	--	5H	1W	
300.23	303.28	3.05	3.05	100	3.05	100	--	5H	1W	

Magnetic Suscepatibility

KL -20-485

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	0.145	CAS	
2	44.93	OVB	
3	0.503	OVB	
4	0.152	QFP	
5	0.24	QFP	
6	0.181	QFP	
7	0.14	QFP	
8	0.264	QFP	
9	0.099	QFP	
10	0.16	QFP	
11	0.171	QFP	
12	0.29	QFP	
13	0.365	QFP	
14	0.367	QFP	
15	0.56	QFP	
16	0.196	QFP	
17	0.168	QFP	
18	0.182	QFP	
19	0.233	QFP	
20	0.205	QFP	
21	0.283	QFP	
22	0.196	QFP	
23	0.21	QFP	
24	0.177	QFP	
25	0.24	QFP	
26	0.211	QFP	
27	0.282	QFP	
28	0.251	QFP	
29	0.209	QFP	
30	0.291	QFP	
31	0.251	QFP	
32	0.328	QFP	
33	0.433	QFP	
34	0.742	GRD	
35	0.753	GRD	
36	5.576	BXA	
37	0.598	BXA	
38	0.43	GRD	
39	0.409	GRD	
40	0.332	GRD	
41	0.512	GRD	
42	0.901	GRD	
43	0.493	GRD	
44	2.599	GRD	
45	57.22	GRD	
46	1.748	GRD	
47	17.16	GRD	
48	3.257	GRD	
49	40.78	GRD	
50	47.9	GRD	
51	44.48	GRD	
52	33.57	GRD	
53	34.91	GRD	
54	33.1	GRD	
55	30.79	GRD	
56	36.56	GRD	
57	30.1	GRD	
58	43.93	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	51.33	GRD	
60	39.23	GRD	
61	42.8	GRD	
62	21.89	GRD	
63	46.24	GRD	
64	48.39	GRD	
65	57.31	GRD	
66	46.4	GRD	
67	44.17	GRD	
68	56.76	GRD	
69	38.23	GRD	
70	49.52	GRD	
71	38.18	GRD	
72	54.32	GRD	
73	31.98	GRD	
74	0.376	GRD	
75	4.29	GRD	
76	28.88	GRD	
77	3.642	GRD	
78	18.97	GRD	
79	30.79	GRD	
80	0.841	GRD	
81	0.75	GRD	
82	2.456	GRD	
83	2.99	GRD	
84	35.25	GRD	
85	31.77	GRD	
86	0.717	GRD	
87	42.06	GRD	
88	46.33	GRD	
89	36.1	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
90	1.72	GRD	
91	29.04	GRD	
92	18.25	GRD	
93	35.45	GRD	
94	60.92	GRD	
95	42.65	GRD	
96	45.94	GRD	
97	31.57	GRD	
98	24.17	GRD	
99	24.73	GRD	
100	37.96	GRD	
101	39.63	GRD	
102	35.73	GRD	
103	15.1	GRD	
104	39.12	GRD	
105	0.51	GRD	
106	52.48	GRD	
107	62.5	GRD	
108	60.46	GRD	
109	50.14	GRD	
110	77.74	GRD	
111	40.46	GRD	
112	52.27	GRD	
113	55.04	GRD	
114	57.94	GRD	
115	45.51	GRD	
116	0.859	GRD	
117	30.8	GRD	
118	51.69	GRD	
119	61.99	GRD	
120	66.56	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	57.57	GRD	
122	50.65	GRD	
123	1.524	GRD	
124	34.58	GRD	
125	0.956	GRD	
126	18.41	GRD	
127	1.036	GRD	
128	7.355	GRD	
129	31.56	GRD	
130	2.059	GRD	
131	49.67	GRD	
132	51.75	GRD	
133	73.14	GRD	
134	224	GRD	
135	52.64	GRD	
136	49.83	GRD	
137	42.71	GRD	
138	53.96	GRD	
139	41.75	GRD	
140	55.1	GRD	
141	44.09	GRD	
142	48.86	GRD	
143	45.76	GRD	
144	46.05	GRD	
145	50.25	GRD	
146	44.39	GRD	
147	63.91	GRD	
148	58.68	GRD	
149	48.91	GRD	
150	43.14	GRD	
151	40.07	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
152	45.45	GRD	
153	38.93	GRD	
154	57.47	GRD	
155	49.59	GRD	
156	49.37	GRD	
157	38.37	GRD	
158	1.191	GRD	
159	49.26	GRD	
160	48.07	GRD	
161	54.75	GRD	
162	44.05	GRD	
163	52.49	GRD	
164	45.22	GRD	
165	43.48	GRD	
166	51.04	GRD	
167	47.24	GRD	
168	39.19	GRD	
169	44.62	GRD	
170	45.2	GRD	
171	47.8	GRD	
172	41.84	GRD	
173	41.79	GRD	
174	34.65	GRD	
175	29.99	GRD	
176	34.75	GRD	
177	31.5	GRD	
178	48.01	GRD	
179	41.38	GRD	
180	41.77	GRD	
181	31.26	GRD	
182	37.77	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	40.54	GRD	
184	34.02	GRD	
185	24.14	GRD	
186	42.2	GRD	
187	30.16	GRD	
188	31.1	GRD	
189	37.74	GRD	
190	40.18	GRD	
191	35.38	GRD	
192	32.67	GRD	
193	0.946	GRD	Altered
194	1.001	GRD	altered
195	48.85	GRD	
196	41.47	GRD	
197	47.45	GRD	
198	15.12	GRD	mod alt
199	37.81	GRD	
200	37.13	GRD	
201	44.69	GRD	
202	42.75	GRD	
203	41.07	GRD	
204	36.54	GRD	
205	38.61	GRD	
206	35.43	GRD	
207	37.91	GRD	
208	43.2	GRD	
209	45.53	GRD	
210	40.8	GRD	
211	6.6	GRD	
212	25.5	GRD	
213	42.38	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
214	19.67	GRD	
215	43.22	GRD	
216	34.09	GRD	
217	32.24	GRD	
218	40.55	GRD	
219	0.69	QFP	
220	0.271	QFP	
221	0.328	QFP	
222	0.215	QFP	
223	0.238	QFP	
224	0.479	QFP	
225	13.84	GRD	grd
226	0.404	QFP	
227	0.29	QFP	
228	0.316	QFP	
229	0.268	QFP	
230	0.223	QFP	
231	0.314	QFP	
232	0.333	QFP	
233	0.253	QFP	
234	0.849	QFP	
235	0.217	QFP	
236	0.28	QFP	
237	0.596	QFP	
238	0.929	QFP	
239	0.535	QFP	
240	0.347	QFP	
241	0.438	QFP	
242	0.809	QFP	
243	24.52	GRD	
244	1.885	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
245	31.31	GRD	
246	5.698	GRD	
247	7.062	GRD	
248	39.64	GRD	
249	9.769	GRD	
250	38.86	GRD	
251	40.7	GRD	
252	37.62	GRD	
253	37.59	GRD	
254	44.09	GRD	
255	52.56	GRD	
256	46.93	GRD	
257	30.77	GRD	
258	23.27	GRD	
259	40.75	GRD	
260	27.54	GRD	
261	43.4	GRD	
262	59.95	GRD	
263	53.51	GRD	
264	49.22	GRD	
265	41.28	GRD	
266	41.17	GRD	
267	59.28	GRD	
268	44.43	GRD	
269	51.74	GRD	
270	53.04	GRD	
271	52.66	GRD	
272	66.77	GRD	
273	50.96	GRD	
274	46.68	GRD	
275	26.86	GRD	
276	57.03	GRD	
277	78.75	GRD	
278	64.49	GRD	
279	54.15	GRD	
280	175.8	GRD	double checked this value
281	58.44	GRD	
281	4.98	GRD	
282	1.61	VEN	
283	97.75	GRD	
284	97.6	GRD	
285	96.94	GRD	
286	93.65	GRD	
287	37.66	GRD	
288	112.1	GRD	
289	5.8	GRD	
290	36.67	GRD	
291	77.47	GRD	
292	0.508	GRD	
293	5.577	GRD	
294	0.246	GRD	
295	1.361	GRD	
296	21.94	GRD	
297	118.7	GRD	
298	102.5	GRD	
299	94.07	GRD	
300	20.65	GRD	
301	49.91	GRD	
302	95.96	GRD	
303	93.54	GRD	

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W598463	☐	20-053	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598474	☐	20-053	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598496	☐	20-054	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598504	☐	20-054	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598524	☐	20-054	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598534	☐	20-055	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598539	☐	20-055	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598560	☐	20-055	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598456	☐	20-053	Low Grade	Klaza2020-A	☐	☐	☐
5.50	7.00	1.50	QFP	1.25	83	W598447	☐	20-050	Low Grade		☐	☐	☐
7.00	7.50	0.50	QFP	0.50	100	W598448	☐	20-050	Low Grade		☐	☐	☐
7.50	9.00	1.50	QFP	1.36	91	W598449	☐	20-050	Low Grade		☐	☐	☐
9.00	10.50	1.50	QFP	0.69	46	W598450	☐	20-050	Low Grade		☐	☐	☐
10.50	12.00	1.50	QFP	1.44	96	W598451	☐	20-053	Low Grade		☐	☐	☐
33.60	35.10	1.50	GRD	1.34	89	W598452	☐	20-053	Low Grade		☐	☐	☐
35.10	36.60	1.50	BXA	1.50	100	W598453	☐	20-053	Low Grade		☐	☐	☐
36.60	37.52	0.92	BXA	0.92	100	W598454	☐	20-053	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
37.52	39.00	1.48	GRD, BXA	1.35	91	W598455	☐	20-053	Low Grade		☐	☐	☐
49.50	51.00	1.50	GRD	1.50	100	W598457	☐	20-053	Low Grade		☐	☐	☐
51.00	51.50	0.50	GRD	0.50	100	W598458	☐	20-053	Low Grade		☐	☐	☐
51.50	53.00	1.50	GRD, GRD	1.21	81	W598459	☐	20-053	Low Grade		☐	☐	☐
60.40	61.90	1.50	GRD	1.39	93	W598460	☐	20-053	Low Grade		☐	☐	☐
61.90	62.40	0.50	GRD	0.50	100	W598461	☐	20-053	Low Grade		☐	☐	☐
62.40	63.90	1.50	GRD	1.50	100	W598462	☐	20-053	Low Grade		☐	☐	☐
72.15	73.65	1.50	GRD	1.44	96	W598464	☐	20-053	Low Grade		☐	☐	☐
73.65	75.15	1.50	GRD	1.50	100	W598465	☐	20-053	Low Grade		☐	☐	☐
75.15	76.65	1.50	GRD	1.50	100	W598466	☐	20-053	Low Grade		☐	☐	☐
84.10	85.60	1.50	GRD	1.50	100	W598467	☐	20-053	Low Grade		☐	☐	☐
85.60	86.10	0.50	GRD	0.50	100	W598468	☐	20-053	Low Grade		☐	☐	☐
85.60	86.10	0.50	GRD	0.50	100	W598469	☐	20-053	Low Grade		☐	☐	☑
86.10	87.60	1.50	GRD	1.50	100	W598470	☐	20-053	Low Grade		☐	☐	☐
87.60	88.85	1.25	GRD	1.15	92	W598471	☐	20-053	Low Grade		☐	☐	☐
88.85	90.35	1.50	GRD	1.50	100	W598472	☐	20-053	Low Grade		☐	☐	☐
90.35	90.85	0.50	GRD	0.50	100	W598473	☐	20-053	Low Grade		☐	☐	☐
90.85	92.35	1.50	GRD	1.45	97	W598475	☐	20-053	Low Grade		☐	☐	☐
101.00	102.45	1.45	GRD	1.45	100	W598476	☐	20-053	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
102.45	103.95	1.50	GRD	1.45	97	W598477	☐	20-053	Low Grade		☐	☐	☐
103.95	105.45	1.50	GRD	0.94	63	W598478	☐	20-053	Low Grade		☐	☐	☐
105.45	105.95	0.50	GRD	0.50	100	W598479	☐	20-053	Low Grade		☐	☐	☐
105.95	107.45	1.50	GRD	1.50	100	W598480	☐	20-053	Low Grade		☐	☐	☐
110.50	112.00	1.50	GRD	1.41	94	W598481	☐	20-053	Low Grade		☐	☐	☐
112.00	113.00	1.00	GRD	0.95	95	W598482	☐	20-053	Low Grade		☐	☐	☐
112.00	113.00	1.00	GRD	0.95	95	W598483	☐	20-053	Low Grade		☐	☑	☐
113.00	114.50	1.50	GRD	1.50	100	W598484	☐	20-053	Low Grade		☐	☐	☐
114.50	115.60	1.10	GRD	1.10	100	W598485	☐	20-053	Low Grade		☐	☐	☐
115.60	116.10	0.50	GRD	0.50	100	W598486	☐	20-053	Low Grade		☐	☐	☐
116.10	117.60	1.50	GRD	1.50	100	W598487	☐	20-053	Low Grade		☐	☐	☐
121.40	122.90	1.50	GRD	1.50	100	W598488	☐	20-053	Low Grade		☐	☐	☐
122.90	123.40	0.50	GRD	0.50	100	W598489	☐	20-053	Low Grade		☐	☐	☐
123.40	124.90	1.50	GRD	1.48	99	W598490	☐	20-053	Low Grade		☐	☐	☐
124.90	126.00	1.10	GRD	1.08	98	W598491	☐	20-054	Low Grade		☐	☐	☐
126.00	127.10	1.10	GRD	1.10	100	W598492	☐	20-054	Low Grade		☐	☐	☐
127.10	127.70	0.60	GRD	0.60	100	W598493	☐	20-054	Low Grade		☐	☐	☐
127.70	129.10	1.40	GRD	1.40	100	W598494	☐	20-054	Low Grade		☐	☐	☐
129.10	129.60	0.50	GRD	0.50	100	W598495	☐	20-054	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
129.60	130.10	0.50	GRD	0.45	90	W598497	☐	20-054	Low Grade		☐	☐	☐
130.10	130.60	0.50	GRD	0.40	80	B700754	☐	20-036	High Grade		☐	☐	☐
130.60	132.10	1.50	GRD	1.49	99	W598498	☐	20-054	Low Grade		☐	☐	☐
137.50	139.00	1.50	GRD	1.47	98	W598499	☐	20-054	Low Grade		☐	☐	☐
139.00	139.60	0.60	GRD	0.60	100	W598500	☐	20-054	Low Grade		☐	☐	☐
139.60	141.00	1.40	GRD	1.32	94	W598501	☐	20-054	Low Grade		☐	☐	☐
154.10	155.60	1.50	GRD	1.50	100	W598502	☐	20-054	Low Grade		☐	☐	☐
155.60	156.10	0.50	GRD	0.49	98	W598503	☐	20-054	Low Grade		☐	☐	☐
156.10	157.60	1.50	GRD	1.50	100	W598505	☐	20-054	Low Grade		☐	☐	☐
157.60	158.10	0.50	GRD	0.50	100	W598506	☐	20-054	Low Grade		☐	☐	☐
191.25	192.75	1.50	GRD	1.50	100	W598507	☐	20-054	Low Grade		☐	☐	☐
192.75	193.25	0.50	GRD	0.50	100	B700755	☐	20-036	High Grade		☐	☐	☐
193.25	194.75	1.50	GRD	1.50	100	W598508	☐	20-054	Low Grade		☐	☐	☐
194.75	195.50	0.75	GRD	0.72	96	W598509	☐	20-054	Low Grade		☐	☐	☐
195.50	196.50	1.00	GRD	0.98	98	W598510	☐	20-054	Low Grade		☐	☐	☐
196.50	198.00	1.50	GRD	1.50	100	W598511	☐	20-054	Low Grade		☐	☐	☐
198.00	198.50	0.50	GRD	0.50	100	W598512	☐	20-054	Low Grade		☐	☐	☐
198.00	198.50	0.50	GRD	0.50	100	W598513	☐	20-054	Low Grade		☐	☑	☐
198.50	200.00	1.50	GRD	1.50	100	W598514	☐	20-054	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
205.00	206.50	1.50	GRD	1.50	100	W598515	☐	20-054	Low Grade		☐	☐	☐
206.50	207.00	0.50	GRD	0.46	92	W598516	☐	20-054	Low Grade		☐	☐	☐
207.00	208.50	1.50	GRD	1.48	99	W598517	☐	20-054	Low Grade		☐	☐	☐
210.90	212.40	1.50	GRD	1.50	100	W598518	☐	20-054	Low Grade		☐	☐	☐
210.90	212.40	1.50	GRD	1.50	100	W598519	☐	20-054	Low Grade		☐	☐	☑
212.40	212.90	0.50	GRD	0.50	100	W598520	☐	20-054	Low Grade		☐	☐	☐
212.90	214.40	1.50	GRD	1.50	100	W598521	☐	20-054	Low Grade		☐	☐	☐
242.50	244.00	1.50	QFP	1.50	100	W598522	☐	20-054	Low Grade		☐	☐	☐
244.00	244.50	0.50	GRD	0.50	100	W598523	☐	20-054	Low Grade		☐	☐	☐
244.50	245.30	0.80	GRD	0.79	99	W598525	☐	20-054	Low Grade		☐	☐	☐
245.30	246.30	1.00	GRD	1.00	100	W598526	☐	20-054	Low Grade		☐	☐	☐
246.30	246.80	0.50	GRD	0.42	84	W598527	☐	20-054	Low Grade		☐	☐	☐
246.80	248.30	1.50	GRD	1.35	90	W598528	☐	20-054	Low Grade		☐	☐	☐
248.30	249.00	0.70	GRD	0.70	100	W598529	☐	20-054	Low Grade		☐	☐	☐
249.00	249.50	0.50	GRD	0.50	100	W598530	☐	20-054	Low Grade		☐	☐	☐
249.50	251.00	1.50	GRD	1.49	99	W598531	☐	20-055	Low Grade		☐	☐	☐
256.15	257.65	1.50	GRD	1.50	100	W598532	☐	20-055	Low Grade		☐	☐	☐
257.65	258.15	0.50	GRD	0.50	100	W598533	☐	20-055	Low Grade		☐	☐	☐
258.10	259.25	1.15	GRD	1.10	96	W598535	☐	20-055	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
259.25	260.00	0.75	GRD	0.75	100	W598536	☐	20-055	Low Grade		☐	☐	☐
275.75	277.25	1.50	GRD	1.50	100	W598537	☐	20-055	Low Grade		☐	☐	☐
277.25	277.75	0.50	GRD	0.50	100	W598538	☐	20-055	Low Grade		☐	☐	☐
277.75	279.25	1.50	GRD	1.49	99	W598540	☐	20-055	Low Grade		☐	☐	☐
279.25	280.40	1.15	GRD	1.13	98	W598541	☐	20-055	Low Grade		☐	☐	☐
280.40	281.90	1.50	GRD	1.50	100	W598542	☐	20-055	Low Grade		☐	☐	☐
281.90	282.40	0.50	VEN	0.50	100	W598543	☐	20-055	Low Grade		☐	☐	☐
282.40	283.90	1.50	GRD	1.50	100	W598544	☐	20-055	Low Grade		☐	☐	☐
287.60	289.10	1.50	GRD	1.50	100	W598545	☐	20-055	Low Grade		☐	☐	☐
287.60	289.10	1.50	GRD	1.50	100	W598546	☐	20-055	Low Grade		☐	☐	☑
289.10	289.60	0.50	GRD	0.50	100	W598547	☐	20-055	Low Grade		☐	☐	☐
289.60	291.00	1.40	GRD	1.40	100	W598548	☐	20-055	Low Grade		☐	☐	☐
291.00	292.10	1.10	GRD	1.10	100	W598549	☐	20-055	Low Grade		☐	☐	☐
292.10	292.60	0.50	GRD	0.50	100	W598550	☐	20-055	Low Grade		☐	☐	☐
292.60	294.00	1.40	GRD	1.40	100	W598551	☐	20-055	Low Grade		☐	☐	☐
294.00	294.50	0.50	GRD	0.50	100	W598552	☐	20-055	Low Grade		☐	☐	☐
294.00	294.50	0.50	GRD	0.50	100	W598553	☐	20-055	Low Grade		☐	☑	☐
294.50	295.20	0.70	GRD	0.70	100	W598554	☐	20-055	Low Grade		☐	☐	☐
295.20	295.70	0.50	GRD	0.50	100	W598555	☐	20-055	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
295.70	297.20	1.50	GRD	1.50	100	W598556	☐	20-055	Low Grade		☐	☐	☐
300.25	301.75	1.50	GRD	1.50	100	W598557	☐	20-055	Low Grade		☐	☐	☐
301.75	302.25	0.50	GRD	0.48	96	W598558	☐	20-055	Low Grade		☐	☐	☐
302.25	303.28	1.03	GRD	1.02	99	W598559	☐	20-055	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-053	W598456	0.00	0.00	0.64	290	☐	☐	☐	☑ Klaza2020-A	klaza a
20-053	W598463	0.00	0.00	3.02	1630	☐	☐	☐	☑ Klaza2020-B	klaza b
20-053	W598474	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-054	W598496	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-054	W598504	0.00	0.00	2.94	1430	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-054	W598524	0.00	0.00	0.61	220	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-055	W598534	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-055	W598539	0.00	0.00	0.61	220	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-055	W598560	0.00	0.00	2.92	1350	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-050	W598447	5.50	7.00	0.31	1250	☐	☐	☐	☐	
20-050	W598448	7.00	7.50	9.80	630	☐	☐	☐	☐	
20-050	W598449	7.50	9.00	0.06	640	☐	☐	☐	☐	
20-050	W598450	9.00	10.50	0.04	730	☐	☐	☐	☐	
20-053	W598451	10.50	12.00	0.01	5850	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-053	W598452	33.60	35.10	0.01	760	☐	☐	☐	☐	
20-053	W598453	35.10	36.60	0.02	840	☐	☐	☐	☐	
20-053	W598454	36.60	37.52	0.01	1010	☐	☐	☐	☐	
20-053	W598455	37.52	39.00	0.01	1890	☐	☐	☐	☐	
20-053	W598457	49.50	51.00	0.02	1310	☐	☐	☐	☐	
20-053	W598458	51.00	51.50	0.02	670	☐	☐	☐	☐	
20-053	W598459	51.50	53.00	0.01	1160	☐	☐	☐	☐	
20-053	W598460	60.40	61.90	0.01	1400	☐	☐	☐	☐	
20-053	W598461	61.90	62.40	0.02	1100	☐	☐	☐	☐	
20-053	W598462	62.40	63.90	0.03	1360	☐	☐	☐	☐	
20-053	W598464	72.15	73.65	0.01	1370	☐	☐	☐	☐	
20-053	W598465	73.65	75.15	0.04	1530	☐	☐	☐	☐	
20-053	W598466	75.15	76.65	0.11	1320	☐	☐	☐	☐	
20-053	W598467	84.10	85.60	0.00	1380	☐	☐	☐	☐	
20-053	W598468	85.60	86.10	0.09	630	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-053	W598469	85.60	86.10	0.08	640	☐	☑	☐	☐	Coarse Reject
20-053	W598470	86.10	87.60	0.01	1240	☐	☐	☐	☐	
20-053	W598471	87.60	88.85	0.01	1350	☐	☐	☐	☐	
20-053	W598472	88.85	90.35	0.01	1300	☐	☐	☐	☐	
20-053	W598473	90.35	90.85	0.17	900	☐	☐	☐	☐	
20-053	W598475	90.85	92.35	0.01	1440	☐	☐	☐	☐	
20-053	W598476	101.00	102.45	0.01	1220	☐	☐	☐	☐	
20-053	W598477	102.45	103.95	0.01	1090	☐	☐	☐	☐	
20-053	W598478	103.95	105.45	0.01	1090	☐	☐	☐	☐	
20-053	W598479	105.45	105.95	0.13	950	☐	☐	☐	☐	
20-053	W598480	105.95	107.45	0.00	1230	☐	☐	☐	☐	
20-053	W598481	110.50	112.00	0.01	1190	☐	☐	☐	☐	
20-053	W598482	112.00	113.00	0.01	1180	☐	☐	☐	☐	
20-053	W598483	112.00	113.00	0.01	1150	☑	☐	☐	☐	quarter dup
20-053	W598484	113.00	114.50	0.01	1090	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-053	W598485	114.50	115.60	0.01	1180	☐	☐	☐	☐	
20-053	W598486	115.60	116.10	1.09	220	☐	☐	☐	☐	
20-053	W598487	116.10	117.60	0.01	1090	☐	☐	☐	☐	
20-053	W598488	121.40	122.90	0.01	1280	☐	☐	☐	☐	
20-053	W598489	122.90	123.40	0.06	1760	☐	☐	☐	☐	
20-053	W598490	123.40	124.90	0.01	1270	☐	☐	☐	☐	
20-054	W598491	124.90	126.00	0.01	1110	☐	☐	☐	☐	
20-054	W598492	126.00	127.10	0.12	1080	☐	☐	☐	☐	
20-054	W598493	127.10	127.70	0.54	670	☐	☐	☐	☐	
20-054	W598494	127.70	129.10	0.01	1200	☐	☐	☐	☐	
20-054	W598495	129.10	129.60	0.30	490	☐	☐	☐	☐	
20-054	W598497	129.60	130.10	0.06	390	☐	☐	☐	☐	
20-036	B700754	130.10	130.60	1.48	320	☐	☐	☐	☐	
20-054	W598498	130.60	132.10	0.01	1240	☐	☐	☐	☐	
20-054	W598499	137.50	139.00	0.01	1380	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-054	W598500	139.00	139.60	0.36	920	☐	☐	☐	☐	
20-054	W598501	139.60	141.00	0.00	1240	☐	☐	☐	☐	
20-054	W598502	154.10	155.60	0.00	1100	☐	☐	☐	☐	
20-054	W598503	155.60	156.10	1.82	690	☐	☐	☐	☐	
20-054	W598505	156.10	157.60	0.00	1060	☐	☐	☐	☐	
20-054	W598506	157.60	158.10	0.01	600	☐	☐	☐	☐	
20-054	W598507	191.25	192.75	0.01	1190	☐	☐	☐	☐	
20-036	B700755	192.75	193.25	0.81	270	☐	☐	☐	☐	
20-054	W598508	193.25	194.75	0.01	1050	☐	☐	☐	☐	
20-054	W598509	194.75	195.50	0.00	1190	☐	☐	☐	☐	
20-054	W598510	195.50	196.50	0.00	1180	☐	☐	☐	☐	
20-054	W598511	196.50	198.00	0.01	1170	☐	☐	☐	☐	
20-054	W598512	198.00	198.50	0.07	640	☐	☐	☐	☐	
20-054	W598513	198.00	198.50	0.08	670	☑	☐	☐	☐	1/4 duplicate
20-054	W598514	198.50	200.00	0.00	1200	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-054	W598515	205.00	206.50	0.00	1230	☐	☐	☐	☐	
20-054	W598516	206.50	207.00	0.04	810	☐	☐	☐	☐	
20-054	W598517	207.00	208.50	0.00	1220	☐	☐	☐	☐	
20-054	W598518	210.90	212.40	0.04	1160	☐	☐	☐	☐	
20-054	W598519	210.90	212.40	0.04	1130	☐	☑	☐	☐	Coarse Reject Duplicate
20-054	W598520	212.40	212.90	0.27	980	☐	☐	☐	☐	
20-054	W598521	212.90	214.40	0.01	1390	☐	☐	☐	☐	
20-054	W598522	242.50	244.00	0.01	1310	☐	☐	☐	☐	
20-054	W598523	244.00	244.50	0.25	1130	☐	☐	☐	☐	
20-054	W598525	244.50	245.30	0.01	1180	☐	☐	☐	☐	
20-054	W598526	245.30	246.30	0.92	1250	☐	☐	☐	☐	
20-054	W598527	246.30	246.80	0.18	900	☐	☐	☐	☐	
20-054	W598528	246.80	248.30	0.01	1200	☐	☐	☐	☐	
20-054	W598529	248.30	249.00	0.01	1240	☐	☐	☐	☐	
20-054	W598530	249.00	249.50	0.01	870	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-055	W598531	249.50	251.00	0.01	1230	☐	☐	☐	☐	
20-055	W598532	256.15	257.65	0.01	1180	☐	☐	☐	☐	
20-055	W598533	257.65	258.15	0.18	800	☐	☐	☐	☐	
20-055	W598535	258.10	259.25	0.01	1220	☐	☐	☐	☐	
20-055	W598536	259.25	260.00	0.03	960	☐	☐	☐	☐	
20-055	W598537	275.75	277.25	0.01	1100	☐	☐	☐	☐	
20-055	W598538	277.25	277.75	0.01	410	☐	☐	☐	☐	
20-055	W598540	277.75	279.25	0.01	1280	☐	☐	☐	☐	
20-055	W598541	279.25	280.40	0.02	2100	☐	☐	☐	☐	
20-055	W598542	280.40	281.90	0.02	1240	☐	☐	☐	☐	
20-055	W598543	281.90	282.40	0.16	1120	☐	☐	☐	☐	
20-055	W598544	282.40	283.90	0.01	1460	☐	☐	☐	☐	
20-055	W598545	287.60	289.10	0.02	1050	☐	☐	☐	☐	
20-055	W598546	287.60	289.10	0.02	1080	☐	☑	☐	☐	Coarse Reject duplicate
20-055	W598547	289.10	289.60	0.20	410	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-055	W598548	289.60	291.00	0.01	1590	☐	☐	☐	☐	
20-055	W598549	291.00	292.10	0.01	1450	☐	☐	☐	☐	
20-055	W598550	292.10	292.60	0.15	1410	☐	☐	☐	☐	
20-055	W598551	292.60	294.00	0.02	1340	☐	☐	☐	☐	
20-055	W598552	294.00	294.50	0.04	280	☐	☐	☐	☐	
20-055	W598553	294.00	294.50	0.02	290	☑	☐	☐	☐	1/4 duplicate
20-055	W598554	294.50	295.20	0.02	650	☐	☐	☐	☐	
20-055	W598555	295.20	295.70	0.50	990	☐	☐	☐	☐	
20-055	W598556	295.70	297.20	0.26	1490	☐	☐	☐	☐	
20-055	W598557	300.25	301.75	0.00	1740	☐	☐	☐	☐	
20-055	W598558	301.75	302.25	0.04	1140	☐	☐	☐	☐	
20-055	W598559	302.25	303.28	0.01	1340	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
7.15	7.52	VT	37	77	NUL	3	chalcedony veinlets with silica clay alteration halo into country rock			
8.00	8.01	SH	81	23	NUL	1	weak shear			
10.75	10.76	SH	81	25	NUL	1	shear at footwall of faulted intrval			
10.85	10.86	SH	81	35	NUL	1	shear at footwall of faulted interval			
14.70	14.71	FR	5	45	NUL	1	fract			
17.40	17.43	SH	81	35	NUL	1	small shear structure			
17.80	17.81	FR	5	60	NUL	1	fracture			
19.70	19.71	VT	37	50	NUL	1	small chalcedonic veinlet			
20.70	20.71	SH	81	50	NUL	1	calcedonic veinlet and minor shear following same structure			
21.00	25.50	FR	5	55	NUL	14	repeating fractures			
23.80	24.00	ST		40	NUL	1	strained interval			
28.90	29.05	ST		40	NUL	1	strained interval			
33.60	33.31	FR	5	25	NUL	1	contact between grd and dyke			
34.40	34.42	VT	37	42	NUL	1	carbonate vein			
35.60	36.05	FT	42	42	NUL	1	fault of sheared strained rock			
37.80	27.81	VT	37	55	NUL	1	chalcedony vein			
39.50	41.00	FR	5	30	NUL	5	veinlets/fractures, sometimes weakly sheared			
42.50	42.70	VT	37	60	NUL	2	quartz and Fe-ox veinlets, goethite? Dark red brown iron oxide			
47.05	47.06	VT	37	47	NUL	1	carboante veinlet			
51.17	51.56	FT	42	29	NUL	1	oxidized gougy fault, strained			
57.00	57.01	FR	5	20	NUL	1	qtz carbonate strained veinlet			
58.10	58.11	VT	37	62	NUL	1	qtz veinlet			
59.70	59.71	VT	37	55	NUL	1	qtz carb veinlet			
62.11	62.17	VN	37	80	NUL	1	qtz feox vein, fractured, unmineralized			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
62.60	62.61	VT	37	42	NUL	1	qtz veinlet			
62.90	62.91	VT	37	24	NUL	1	qqtz feox veinet			
67.20	37.35	FT	42	55	NUL	1	faulted fe-ox stained vein material, siderite?			
73.35	74.85	FT	42	57	NUL	1	faulted interval, edges and features within at 57 deg tca			
75.00	75.01	VT	37	24	NUL	1	qtz carb veinlet			
75.20	75.21	VT	37	70	NUL	1	fracture veinlet			
75.40	75.41	VT	37	55	NUL	1	carbonate veinlet			
77.00	77.02	VT	37	28	NUL	1	fracturd net of carbonate stringers with fe-ox			
77.30	77.31	VT	37	30	NUL	1	carbonate stringer			
79.90	80.01	ST		32	NUL	1	strained clay altered			
80.55	80.56	VT	37	65	NUL	1	carbonate chalcedony veinlet			
80.70	80.79	ST		60	NUL	1	strained interval, oxidized and clay altered			
81.10	81.17	ST		27	NUL	1	strained vein, broken, carbonate qtz, weakly brecciated texture			
82.30	82.41	BX	34	60	NUL	1	brecciated altered vein thing, clay altered			
88.90	89.00	VT	37	37	NUL	2	small quartz carbonate infill fractutes			
89.60	89.61	VT	37	40	NUL	1	carbonate qtz infill, weakly oxidized			
89.92	89.93	VT	37	30	NUL	1	clay carbonate veinlet			
91.40	90.60	VN	37	70	NUL	1	banded vein / folliated interval with small qtz stringers containing small amounts of py gal and sphal			
								Sp	1	---
								Gn	1	---
								Py	2	---
91.90	91.93	VT	37	70	NUL	1	banded veinlet vein thing, similar to that above, but smaller. No sulphides observed			
94.60	94.62	FR	5	60	NUL	1	oxidized fracture			
98.50	98.51	VT	37	50	NUL	1	small veinlet			
101.50	101.51	VT	37	35	NUL	1	carbonate veinlet			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
101.54	105.65	ST		48	NUL	10	strained rubbly interval with common features at ~48 deg tca througout.			
105.67	105.71	VB	37	40	NUL	1	brecciated qtz carbonate vein, grey chalcedonic matrix, trace py			
								Py	0.5	---
112.20	112.75	VT	37	45	NUL	2	>1cm coarse py and qtz veinlets			
								Py	1	---
115.80	115.92	VN	37	60	NUL	1	vein with fine grained py and lesser Aspy, and minor Sphal and Gal. fine grained siliceous and vuggy carbonate.			
								Py	10	---
								Sp	0.5	---
								Gn	0.5	---
								As	2	---
117.55	117.56	VT	37	50	NUL	1	small qtz vein			
122.15	122.16	VT	37	30	NUL	1	small chlorite veinlet			
123.10	123.14	VN	37	60	NUL	1	vuggy carbonate vein with calcite, carbonate (dolomite?) and barite. Trace py			
								Py	0.1	---
124.00	124.05	ST		30	NUL	1	strained veinlet			
126.35	123.36	VT	37	45	NUL	1	small qtz veinlet			
127.35	127.45	VN	37	70	NUL	2	small silica flooded veins, with minor sphal py and gal			
								Gn	0.5	---
								Sp	1	---
								Py	1	---
193.01	193.02	VT	37	60	NUL	1	small veinlet >1cm with qtz sphal gal and aspy. Surrounded by brecciated interval with qtz and carbonate veining in silicified host rock, grd host rock clay altered plag and feldspars			
								As	1	---
								Py	20	---
								Sp	10	---
								Gn	10	---
194.09	194.10	VT	37	70	NUL	1	small qtz carb vein w alteration halo bleaching			
198.06	198.07	VT	37	68	NUL	1	small qtz-carbonate veinlet with minor py other fine grained sulphides, difficult to identify due to fine grained nature			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	1	---
206.75	206.79	VT	37	70	NUL	1	small vein with qtz carboante, fine grained trace py			
								Py	1	---
208.20	208.21	VT	37	48	NUL	1	small qtz py veinlet 5mm wide			
								Py	10	---
212.50	212.23	VT	37	70	NUL	1	small chalcedonic qtz vein with minor py sphal gal and rhodochrosite and other carbonate minerals			
								Py	1	---
								Gn	1	---
								Sp	1	---
218.56	218.57	VT	37	40	NUL	1	carboante and chalcedony vein at contact with dyke			
224.50	224.51	FR	5	60	NUL	1	contact between dyke and fg grd			
225.00	225.01	SH	81	30	NUL	1	shear w carbonate infill in strained clay altered grd			
226.30	226.33	FR	5	30	NUL	2	oxidized fractures in dyke			
234.50	235.40	FR	5	65	NUL	6	fracture set, some oxidized			
236.00	236.01	VT	37	66	NUL	1	small 1cm veinlet, fine grained qtz			
244.30	244.32	VT	37	70	NUL	1	small mineralized veinlet, cutting through and partially making use of structural weaknes that is orientation of other veinlet at 60 dec tca			
								Gn	5	---
								As	1	---
								Sp	5	---
								Py	20	---
								Ja	0.5	---
244.40	244.41	FR	5	50	NUL	1	fracture and orientation of shear			
245.65	245.67	VT	37	50	NUL	1	swarm of hariline veinlets			
246.52	246.79	VN	37	50	NUL	1	swarm of veinlets and silica alteration, capped by Fe-ox on either side. Minor Py.			
								Py	0.5	---
248.50	248.51	VT	37	51	NUL	1	small py vein w hematite. Very weak alteration halo			
								He	5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
249.15	249.30	VT	37	70	NUL	2	small 2 cm brecciated veinlets, chalcedonic quartz and carbonate, minor mineralization, hem (might be sphal?), Aspy, and possibly gal			
								He	1	---
								Gn	0.1	---
								As	1	---
257.80	257.93	VN	37	51	NUL	1	network of small stingers with associated clay alteration and silicification. Chalcedonic veinlets and carbonate veinlets, footwall has some sulphides present, minor Py, Sphal, Gal and Aspy			
								As	0.2	---
								Sp	0.5	---
								Gn	0.5	---
								Py	1	---
259.50	260.00	VT	37	40	NUL	3	set of veinlets between 45 and 25 deg with clay alteration, localized silicification of host rock, and with minor sulphides, py and trace sphal			
								Sp	0.1	---
								Py	1	---
277.47	277.54	VN	37	27	NUL	1	brecciated carbonate chalcedony clay vein, with trace py			
								Py	0.1	---
282.05	282.09	VN	37	70	NUL	1	Py, sphal, sandy texture with minor massive blebs of mixed sulphides, sandy texture is silica and mainly py grains			
								Py	12	---
								Sp	1	---
								Gn	1	---
294.15	294.17	VT	37	70	NUL	1	brecciated chalcedony veinlet, trace py			
								Py	1	---
295.35	295.39	VT	37	35	NUL	2	small chalcedony carbonate sulphide veinlets, two >1cm each, py sphal, gal			
								Sp	1	---
								Gn	1	---
								Py	1	---
302.00	302.01	VT	37	40	NUL	1	qtz py veinlet 8mm wide			
								Py	40	---

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384557	6887902	1226	158.5

ZONE: Exploration

SECTION:

HOLE: KL -20-486

CLAIM: YA86341

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 9.14m, Out

Drilling Dates: Sep 30 - Oct 04, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.5	3.5	CAS
3.5	6.55	3.05	OVB
6.55	19.85	13.3	GRD
19.85	26.35	6.5	GRD
26.35	31.8	5.45	GRD
31.8	35.6	3.8	GRD
35.6	44.6	9	GRD
44.6	53.45	8.85	GRD
53.45	53.85	0.4	FEL
53.85	59.85	6	GRD
59.85	60.4	0.55	FEL
60.4	63.45	3.05	GRD
63.45	66	2.55	FEL
66	67.78	1.78	GRD
67.78	70.5	2.72	FEL
70.5	70.8	0.3	GRD

SAMPLES	
Numbers:	W596929 to W597000, W598751 to W598806
Total:	128
Batch:	052, 056, 058, 059
Certificates:	WH20230278, WH20230281, WH20230282, WH20234016

COMMENTS
Etzel exploration hole #3. Handheld GPS accuracy of 2.2m. 120 feet f HTW rods lost in hole

70.8	71.6	0.8	FEL
71.6	74.56	2.96	GRD
74.56	76.3	1.74	GRD
76.3	94.8	18.5	GRD
94.8	107.75	12.95	GRD
107.75	108.6	0.85	QFP
108.6	112.9	4.3	GRD
112.9	113.69	0.79	GRD
113.69	123.14	9.45	FEL
123.14	158.5	35.36	GRD

Box Log

KL -20-486

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	3.5	6.9
2	6.9	9.9
3	9.9	12.93
4	12.93	16.08
5	16.08	18.76
6	18.76	21.91
7	21.91	24.95
8	24.95	27.72
9	27.72	30.34
10	30.34	32.95
11	32.95	35.65
12	35.65	38.8
13	38.8	42.06
14	42.06	45.12
15	45.12	48.26
16	48.26	51.56
17	51.56	54.2
18	54.2	56.39
19	56.39	60.11
20	60.11	64.01
21	64.01	67.78
22	67.78	72.04
23	72.04	76.17
24	76.17	80.38
25	80.38	82.85
26	82.85	86.4
27	86.4	89.75
28	89.75	93.3
29	93.3	96.12
30	96.12	99.06

Box Number	From (m)	To (m)
31	99.06	102.44
32	102.44	105.57
33	105.57	108.95
34	108.95	112.61
35	112.61	113.69
36	113.69	115.55
37	115.55	119.2
38	119.2	123.04
39	123.04	126.43
40	126.43	130.12
41	130.12	134.18
42	134.18	138.15
43	138.15	141.78
44	141.78	146
45	146	149.1
46	149.1	153.57
47	153.57	156.79
48	156.79	158.5

Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-486									
	70.11	23.25	NTW	FEL	1492	921.1	2.27	2.6	medium grained felsic dyke with some minor hematite staining and alteration rims around some feldspar phenos. Fine grained disseminated pyrite throughout
	104.05	12.5	NTW	GRD	841.9	532.3	2.38	2.7	clay chlorite altered granodiorite
	131.27	16.5	NTW	GRD	1123.9	719.8	2.41	2.8	fine grained chlorite and clay altered granodiorite with small quartz and pyrite veins and coarse grained pyrite on fracture surfaces
	151.45	15.5	NTW	GRD	1065.9	684.6	2.43	2.8	fine grained silicified granodiorite with minor pyrite veins throughout.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.50	3.50	CAS	--	casing							
3.50	6.55	3.05	OVB	--	overburden, rubbly, oxidized, weathered granodiorite							
6.55	15.50	8.95	GRD	MG	same as general lith							
15.50	16.00	0.50	FLR	--	shear / fault at 15 deg tca, rubbly gouge							
						LT	BN	RB	CLY	5I		
								SH				
16.00	19.85	3.85	GRD	MG	same as general lith							
19.85	26.35	6.50	GRD	MG	strongly clay altered and strained, no competency, easily crumbly, chlorite alteration of mafic minerals. Disseminated py.							
						LT	GY	ST	CLY	5I	Py	1.5
						DK	GN		CHL	3I		
26.35	31.80	5.45	GRD	MG	Broken med grained grd, weakly silicified							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		CHL	3I		
31.80	35.60	3.80	GRD	MG	clay altered, somewhat broken, chlorite alteration of mafics. Trace to minor disseminated py							
						MD	GN		CHL	3I		
						LT	GY		CLY	4I	Py	0.5
35.60	40.00	4.40	GRD	MG	strongly faulted and strained							
40.00	41.00	1.00	GRD	MG	more competent grd, weak to moderate silica alteration							
									SIL	3I		
41.00	44.60	3.60	GRD	MG	strongly sheared and moderately faulted. Brecciated texture							
44.60	53.45	8.85	GRD	MG	fractured and rubbly, broken with small intervals of rubbly shear. Weak clay alteration, patchy weak silica alteration							
						MD	GY		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	FR	CLY	3I	Py	0.5
53.45	53.85	0.40	FEL	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration							
						LT	GY	PO	CLY	3I	Py	0.5
									HEM	2I		
53.85	59.85	6.00	GRD	MG	broken mod clay altered grd.							
59.85	60.40	0.55	FEL	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration							
60.40	63.45	3.05	GRD	MG	med grey silica altered med grained GRD. Disseminated to patchy py. Some small qtz veins with minor py at 63.3m at 30 and 60 deg tca. 30 deg vein crosscuts 60 deg vein.							
						MD	GY	FL	SIL	4I	Py	1.5
								SU				
								FR	CLY	2I		
63.45	66.00	2.55	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
						MD	GY	CR	CLY	2I	Py	1
								FL	SIL	4I		
									HEM	2I		
66.00	67.78	1.78	GRD	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Minor small qtz veinlets with minor py							
						MD	GY	SU	SIL	4I	Py	1.5
								FL	CLY	2I		
67.78	70.50	2.72	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
						MD	GY	PO	SIL	3I	Py	1
									CLY	2I		
									HEM	2I		
70.50	70.80	0.30	GRD	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Lower contact planar with small shear gouge.							
						MD	GY		SIL	2I	Py	1
									CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									CHL	1I		
70.80	71.60	0.80	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
						MD	GY	PO	CLY	2I		
									SIL	2I		
									HEM	1I		
71.60	74.56	2.96	GRD	MG	med grey med grained grd, mod silica flooding, clay alteration of feldspars							
						MD	GY		CLY	2I	Py	1
									SIL	4I		
74.56	76.30	1.74	GRD	MG	strained grd with sheares developed at low angles to core axis and disseminated py througout. Dark couloured shears and green grey white clay altered strained granodiorite.							
						MD	GY	ST	CLY	4I	Py	1
						LT	GY	SH	CHL	3I		
						LT	GN					
76.30	94.80	18.50	GRD	MG	strained chlorite and clay altered medium grained granodiorite. Dark green and medium and light grey coloured. Rubbly and broken. Disseminated py througout and occuring in small stringers. Clay carboante infill in many fractures. Minor patchy silica altered sections.							
						LT	GY	FR	CHL	4I		
						DK	GN	RB	CLY	4I	Py	1
									SIL	2I		
94.80	107.75	12.95	GRD	MG	Patchy silica alteration. Occasional small qtz-py-hematite veinlets w trace Cpy. More significant vein of light pink-cream white carbonate cutting through at 20 deg tca, with grey gouge/clay inbetween carbonate vein layers/pulses(?) at 98.8m. Small gouge/faulted section at 95.7m at 50 deg tca							
						MD	GY	FR	CLY	3I	Py	1
						MD	GN		SIL	3I	Py	0.2
						LT	GY		CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
107.75	108.60	0.85	QFP	FG	fine grained med grey dyke with small minor phenocrysts of quartz and feldspar. Feldspars often stained pinkish red from hematite alteration. No minoeralization in dyke. Small intervals of rubbly GRD similar to the GRD in the intervals above and below. Dyke appears to be at low angle to core axis (10-15 deg), but difficult to tell because of broken core.							
						MD	GY	FR	CLY	2I		
								MA	HEM	1I		
108.60	112.90	4.30	GRD	MG	med grained strained and altered grd, low competency, crumbly and broken. Pervasive clay chlorite alteration.							
						MD	GY					
						LT	GY	ST	CLY	4I	Py	1
						DK	GN		CHL	3I		
112.90	113.69	0.79	GRD	FG	extremely strained, drill recovery is essentially sand, no competency, feldspars altered to clay and washed out in drilling. Flakes of biotite common, quartz, minor magnetite, and other dark unidentifiable minerals (hornblend?). Large amount of cave in below this point							
						DK	GY	SN	CLY	4I		
						DK	GN		CHL	2I		
113.69	123.14	9.45	FEL	MG	Buff grey medium grained phenocryst poor felsic qfp dyke, granitic(?) composition.							
						MD	BF					
						LT	GY		CLY	3I		
123.14	131.00	7.86	GRD	MG	moderate to strong clay alteration, weak patchy silica alteration							
						MD	GN	ST	CHL	3I		
						MD	GY	FR	CLY	3I	Py	1
									SIL	2I		
131.00	139.00	8.00	GRD	MG	weak clay alteration, moderate silica alteration							
									CLY	2I		
									SIL	4I		
									CHL	3I		
139.00	142.50	3.50	GRD	MG	moderate clay alteration, fracture set sub-parallel to core axis							
									CHL	3I		
									CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
142.50	146.30	3.80	GRD	MG	moderate to strong silica alteration. Moderate chlorite alteration							
									SIL	4I		
									CHL	3I		
146.30	148.00	1.70	GRD	MG	broken, weak silica weak clay moderqte chl							
									SIL	2I		
									CLY	2I		
									CHL	3I		
148.00	155.30	7.30	GRD	MG	moderate to strongly silica altered, moderately chlorite altered interval with small >1c vein of py magnetite and trace cpy at 153.6m. Other small stringers of chlorite and py throughout interval.							
									SIL	4I	Py	1
									CHL	3I	Cp	0.1
											Ma	0.2
155.30	158.50	3.20	GRD	MG	clay altered, saussuritic alteration of feldspars, patchy weak potassic alteration, light grey green colouration. Broken. Pervasive weak chlorite alteration. Small fault/shear at 155.7m with some mineralization surrounding it, py +- hem?							
									CHL	2I		
									CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	3.50	3.50	CAS	OVB	--	casing
3.50	6.55	3.05	OVB	OVB	--	overburden, rubbly, oxidized, weathered granodiorite
6.55	15.50	8.95	GRD	GRDA	MG	same as general lith
15.50	16.00	0.50	FLR	GRDA	--	shear / fault at 15 deg tca, rubbly gouge
16.00	19.85	3.85	GRD	GRDA	MG	same as general lith
19.85	26.35	6.50	GRD	GRDA	MG	strongly clay altered and strained, no competency, easily crumbly, chlorite alteration of mafic minerals. Disseminated py.
26.35	31.80	5.45	GRD	GRD	MG	Broken med grained grd, weakly silicified
31.80	35.60	3.80	GRD	GRDA	MG	clay altered, somewhat broken, chlorite alteration of mafics. Trace to minor disseminated py
35.60	40.00	4.40	GRD	GRDF	MG	strongly faulted and strained
40.00	41.00	1.00	GRD	GRDF	MG	more competent grd, weak to moderate silica alteration
41.00	44.60	3.60	GRD	GRDF	MG	strongly sheared and moderately faulted. Brecciated texture
44.60	53.45	8.85	GRD	GRDA	MG	fractured and rubbly, broken with small intervals of rubbly shear. Weak clay alteration, patchy weak silica alteration
53.45	53.85	0.40	FEL	DYK	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration
53.85	59.85	6.00	GRD	GRDA	MG	broken mod clay altered grd.
59.85	60.40	0.55	FEL	DYK	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration
60.40	63.45	3.05	GRD	GRDA	MG	med grey silica altered med grained GRD. Disseminated to patchy py. Some small qtz veins with minor py at 63.3m at 30 and 60 deg tca. 30 deg vein crosscuts 60 deg vein.
63.45	66.00	2.55	FEL	DYK	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?
66.00	67.78	1.78	GRD	GRDA	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Minor small qtz veinlets with minor py
67.78	70.50	2.72	FEL	DYK	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?
70.50	70.80	0.30	GRD	GRDA	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Lower contact planar with small shear gouge.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
70.80	71.60	0.80	FEL	DYK	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?
71.60	74.56	2.96	GRD	GRDA	MG	med grey med grained grd, mod silica flooding, clay alteration of feldspars
74.56	76.30	1.74	GRD	GRDF	MG	strained grd with sheares developed at low angles to core axis and disseminated py througout. Dark couloured shears and green grey white clay altered strained granodiorite.
76.30	94.80	18.50	GRD	GRDA	MG	strained chlorite and clay altered medium grained granodiorite. Dark green and medium and light grey coloured. Rubbly and broken. Disseminated py througout and occuring in small stringers. Clay carboante infill in many fractures. Minor patchy silica altered sections.
94.80	107.75	12.95	GRD	GRDA	MG	Patchy silica alteration. Occasional small qtz-py-hematite veinlets w trace Cpy. More significant vein of light pink-cream white carbonate cutting through at 20 deg tca, with grey gouge/clay inbetween carbonate vein layers/pulses(?) at 98.8m. Small gouge/faulted section at 95.7m at 50 deg tca
107.75	108.60	0.85	QFP	DYK	FG	fine grained med grey dyke with small minor phenocrysts of quartz and feldspar. Feldspars often stained pinkish red from hematite alteration. No minoeralization in dyke. Small intervals of rubbly GRD similar to the GRD in the intervals above and below. Dyke appears to be at low angle to core axis (10-15 deg), but difficult to tell because of broken core.
108.60	112.90	4.30	GRD	GRDA	MG	med grained strained and altered grd, low competency, crumbly and broken. Pervasive clay chlorite alteration.
112.90	113.69	0.79	GRD	GRDA	FG	extremely strained, drill recovery is essentially sand, no competency, feldspars altered to clay and washed out in drilling. Flakes of biotite common, quartz, minor magnetite, and other dark unidentifiable minerals (hornblend?). Large amount of cave in below this point
113.69	123.14	9.45	FEL	DYK	MG	Buff grey medium grained phenocryst poor felsic qfp dyke, granitic(?) composition.
123.14	131.00	7.86	GRD	GRDA	MG	moderate to strong clay alteration, weak patchy silica alteration
131.00	139.00	8.00	GRD	GRDA	MG	weak clay alteration, moderate silica alteration
139.00	142.50	3.50	GRD	GRDA	MG	moderate clay alteration, fracture set sub-parallel to core axis
142.50	146.30	3.80	GRD	GRDA	MG	moderate to strong silica alteration. Moderate chlorite alteration
146.30	148.00	1.70	GRD	GRDA	MG	broken, weak silica weak clay moderqte chl
148.00	155.30	7.30	GRD	GRDA	MG	moderate to strongly silica altered, moderately chlorite altered interval with small >1c vein of py magnetite and trace cpy at 153.6m. Other small stringers of chlorite and py throughout interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
155.30	158.50	3.20	GRD	GRDA	MG	clay altered, saussuritic alteration of feldspars, patchy weak potassic alteration, light grey green colouration. Broken. Pervasive weak chlorite alteration. Small fault/shear at 155.7m with some mineralization surrounding it, py +- hem?

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.50	3.50	CAS	--	casing							
3.50	6.55	3.05	OVB	--	overburden, rubbly, oxidized, weathered granodiorite							
6.55	19.85	13.30	GRD	MG	Fractured granodiorite with siderite and pyrite infill. Clay alteration around some stringers. Pervasive chlorite alteration. Orange limonite alteration in fractures. Patchy silica alteration.							
						MD	GN	FR	SIL	3I	Py	1
						MD	GY		CLY	2I		
									LIM	3I		
									CHL	3I		
19.85	26.35	6.50	GRD	MG	strongly clay altered and strained, no competency, easily crumbly, chlorite alteration of mafic minerals. Disseminated py.							
						LT	GY	ST	CLY	5I	Py	1.5
						DK	GN		CHL	3I		
26.35	31.80	5.45	GRD	MG	Broken med grained grd, weakly silicified							
						MD	GY		SIL	2I	Py	0.5
						MD	GN		CHL	3I		
31.80	35.60	3.80	GRD	MG	clay altered, somewhat broken, chlorite alteration of mafics. Trace to minor disseminated py							
						LT	GY		CHL	3I	Py	0.5
						MD	GN		CLY	4I		
35.60	44.60	9.00	GRD	MG	highy fractured and weakly faulted moderately clay altered med grained grd. Intervals of more competent core. Disseminated py throughout.							
						LT	GY	RB	CHL	2I		
						MD	GN	ST				
						MD	GY	FR	CLY	3I	Py	1
44.60	53.45	8.85	GRD	MG	fractured and rubbly, broken with small intervals of rubbly shear. Weak clay alteration, patchy weak silica alteration							
						MD	GY		SIL	2I		
						LT	GY	FR	CLY	3I	Py	0.5
53.45	53.85	0.40	FEL	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									HEM	2I		
						LT	GY	PO	CLY	3I	Py	0.5
53.85	59.85	6.00	GRD	MG	broken mod clay altered grd.							
59.85	60.40	0.55	FEL	MG	small felsic dyke, clay altered feldspars, patchy py, patchy hematite alteration							
60.40	63.45	3.05	GRD	MG	med grey silica altered med grained GRD. Disseminated to patchy py. Some small qtz veins with minor py at 63.3m at 30 and 60 deg tca. 30 deg vein crosscuts 60 deg vein.							
								SU				
						MD	GY	FL	SIL	4I	Py	1.5
								FR	CLY	2I		
63.45	66.00	2.55	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
						MD	GY	FL	CLY	2I	Py	1
								CR	SIL	4I		
									HEM	2I		
66.00	67.78	1.78	GRD	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Minor small qtz veinlets with minor py							
						MD	GY	FL	SIL	4I	Py	1.5
								SU	CLY	2I		
67.78	70.50	2.72	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
									HEM	2I		
						MD	GY	PO	SIL	3I	Py	1
									CLY	2I		
70.50	70.80	0.30	GRD	MG	Med grey silica altered med grained GRD. Disseminated to patchy py. Lower contact planar with small shear gouge.							
						MD	GY		SIL	2I	Py	1
									CLY	2I		
									CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
70.80	71.60	0.80	FEL	MG	Silica flooded felsic dyke, silica alteration similar to that in the GRD above. Patchy hematite alteration, staining white clay altered feldspars, possibly altering to py? Or py altering to hematite?							
						MD	GY	PO	CLY	2I		
									SIL	2I		
									HEM	1I		
71.60	74.56	2.96	GRD	MG	med grey med grained grd, mod silica flooding, clay alteration of feldspars							
						MD	GY		CLY	2I	Py	1
									SIL	4I		
74.56	76.30	1.74	GRD	MG	strained grd with sheares developed at low angles to core axis and disseminated py througout. Dark couloured shears and green grey white clay altered strained granodiorite.							
						MD	GY	SH	CLY	4I	Py	1
						LT	GY	ST	CHL	3I		
						LT	GN					
76.30	94.80	18.50	GRD	MG	strained chlorite and clay altered medium grained granodiorite. Dark green and medium and light grey coloured. Rubbly and broken. Disseminated py througout and occuring in small stringers. Clay carboante infill in many fractures. Minor patchy silica altered sections.							
						LT	GY	RB	CHL	4I		
									SIL	2I		
						DK	GN	FR	CLY	4I	Py	1
94.80	107.75	12.95	GRD	MG	Patchy silica alteration. Occasional small qtz-py-hematite veinlets, trace Cpy. More significant vein of light pink-cream white carbonate cutting through at 20 deg tca, with grey gouge/clay inbetween carbonate vein layers/pulses(?) at 98.8m. Small gouge/faulted section at 95.7m at 50 deg tca							
						MD	GY	FR	CLY	3I	Py	1
						MD	GN		SIL	3I	Py	0.2
						LT	GY		CHL	3I	Cp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
107.75	108.60	0.85	QFP	FG	fine grained med grey dyke with small minor phenocrysts of quartz and feldspar. Feldspars often stained pinkish red from hematite alteration. No minoeralization in dyke. Small intervals of rubbly GRD similar to the GRD in the intervals above and below. Dyke appears to be at low angle to core axis (10-15 deg), but difficult to tell because of broken core.							
						MD	GY	MA	CLY	2I		
								FR	HEM	1I		
108.60	112.90	4.30	GRD	MG	med grained strained and altered grd, low competency, crumbly and broken. Pervasive clay chlorite alteration.							
						DK	GN		CHL	3I		
						MD	GY					
						LT	GY	ST	CLY	4I	Py	1
112.90	113.69	0.79	GRD	FG	extremely strained, drill recovery is essentially sand, no competency, feldspars altered to clay and washed out in drilling. Flakes of biotite common, quartz, minor magnetite, and other dark unidentifiable minerals (hornblend?). Large amount of cave in below this point							
						DK	GN		CHL	2I		
						DK	GY	SN	CLY	4I		
113.69	123.14	9.45	FEL	MG	Buff grey medium grained phenocryst poor felsic qfp dyke, granitic(?) composition.							
						MD	BF					
						LT	GY		CLY	3I		
123.14	158.50	35.36	GRD	MG	Patchy silica and clay alteration, locally strained and rubbly sections with more intense clay alteration. Generally quite broken. Minor Py disseminated through and in small qtz stringers. >1cm py-magnetite-cpy veinlet at 153.6m with silica chlorite alteration halo.							
						MD	GY	FR	CLY	3I	Py	1
						MD	GN	ST	CHL	3I	Ma	0.2
									SIL	3I	Cp	0.1

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	4.57	4.57	0	0	0.00	0	--	--	5W	rubble; overburden
4.57	6.10	1.53	0.46	30	0.00	0	--	--	4W	rubble; overburden
6.10	7.62	1.52	0.79	52	0.11	7	--	3H	3W	rubble
7.62	8.84	1.22	0.93	76	0.11	9	--	3H	3W	rubble
8.84	10.36	1.52	1.25	82	0.35	23	--	3H	2W	
10.36	11.89	1.53	1.4	92	0.33	22	--	3H	2W	
11.89	13.72	1.83	1.83	100	0.97	53	--	3H	2W	
13.72	15.24	1.52	1.46	96	0.36	24	--	3H	2W	
15.24	16.76	1.52	1.33	88	0.42	28	--	2H	2W	gougey
16.76	18.29	1.53	1.45	95	0.39	25	--	2H	3W	gougey
18.29	19.81	1.52	1.51	99	1.43	94	--	2H	2W	
19.81	21.34	1.53	1.32	86	0.51	33	--	2H	2W	clayey
21.34	22.86	1.52	1.47	97	1.12	74	--	2H	2W	clayey
22.86	25.91	3.05	2.84	93	0.65	21	--	2H	1W	clayey
25.91	27.43	1.52	1.15	76	0.10	7	--	2H	1W	clayey
27.43	30.48	3.05	2.88	94	0.28	9	--	3H	1W	broken
30.48	31.70	1.22	1.18	97	0.50	41	--	3H	1W	broken
31.70	33.22	1.52	1.47	97	0.71	47	--	3H	1W	
33.22	34.75	1.53	1.42	93	0.10	7	--	3H	1W	broken
34.75	36.58	1.83	1.63	89	0.22	12	--	2H	1W	bottom 1/2 soft & gougey
36.58	38.10	1.52	1.24	82	0.10	7	--	3H	1W	rubbly
38.10	40.84	2.74	2.22	81	0.14	5	--	3H	1W	rubbly
40.84	42.67	1.83	0.75	41	0.00	0	--	2H	2W	gougey, rubbly
42.67	44.20	1.53	1.52	99	0.83	54	--	2H	1W	gougey fault
44.20	45.72	1.52	0.51	34	0.11	7	--	3H	1W	
45.72	47.24	1.52	1.2	79	0.22	14	--	3H	1W	rubble
47.24	48.77	1.53	1.18	77	0.10	7	--	3H	1W	
48.77	50.29	1.52	1.02	67	0.14	9	--	3H	1W	
50.29	51.82	1.53	0.95	62	0.00	0	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
51.82	53.34	1.52	1.3	86	0.00	0	--	3H	1W	
53.34	56.39	3.05	2.32	76	0.00	0	--	3H	1W	
56.39	57.91	1.52	1.03	68	0.00	0	--	3H	1W	reduced
57.91	60.96	3.05	2.69	88	0.00	0	--	3H	1W	
60.96	64.01	3.05	2.63	86	0.50	16	--	3H	1W	
64.01	65.53	1.52	1.16	76	0.00	0	--	3H	1W	rubbly
65.53	68.58	3.05	2.84	93	0.86	28	--	3H	1W	
68.58	71.63	3.05	2.89	95	1.01	33	--	3H	1W	
71.63	74.68	3.05	2.74	90	0.61	20	--	3H	1W	
74.68	77.72	3.04	2.86	94	2.25	74	--	2H	1W	gougey
77.72	80.77	3.05	2.89	95	1.27	42	--	2H	1W	gougey
80.77	83.82	3.05	1.64	54	0.00	0	--	2H	1W	gougey rubble
83.82	85.34	1.52	1.01	66	0.00	0	--	2H	1W	rubble
85.34	86.87	1.53	1.19	78	0.00	0	--	2H	1W	rubble
86.87	89.31	2.44	1.7	70	0.00	0	--	2H	1W	rubble
89.31	90.38	1.07	1.04	97	0.00	0	--	3H	1W	rubble
90.38	92.96	2.58	1.57	61	0.00	0	--	3H	1W	rubble
92.96	94.49	1.53	1.26	82	0.00	0	--	3H	1W	rubble
94.49	95.40	0.91	0.9	99	0.15	16	--	3H	1W	
95.40	97.23	1.83	1.76	96	0.23	13	--	3H	1W	
97.23	99.06	1.83	1.7	93	0.00	0	--	3H	1W	
99.06	101.80	2.74	2.26	82	0.12	4	--	3H	1W	
101.80	103.63	1.83	1.52	83	0.00	0	--	3H	1W	
103.63	106.68	3.05	2.83	93	0.45	15	--	3H	1W	
106.68	108.20	1.52	1.32	87	0.00	0	--	3H	1W	
108.20	110.95	2.75	2.22	81	0.00	0	--	3H	1W	
110.95	112.78	1.83	1.39	76	0.00	0	--	3H	1W	
112.78	113.69	0.91	0.72	79	0.00	0	--	2H	1W	sand/ cave
113.69	114.30	0.61	0.6	98	0.00	0	--	3H	1W	
114.30	117.35	3.05	2.62	86	0.00	0	--	3H	1W	
117.35	120.09	2.74	2.39	87	0.14	5	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
120.09	123.14	3.05	2.08	68	0.00	0	--	3H	1W	rubble
123.14	125.58	2.44	2.16	89	0.00	0	--	3H	1W	
125.58	128.02	2.44	1.78	73	0.00	0	--	3H	1W	rubble
128.02	129.59	1.57	1.37	87	0.47	30	--	3H	1W	rubble
129.59	132.59	3.00	2.7	90	0.60	20	--	3H	1W	
132.59	135.05	2.46	2.35	96	0.78	32	--	3H	1W	
135.05	137.16	2.11	1.98	94	1.12	53	--	3H	1W	
137.16	139.29	2.13	1.69	79	0.49	23	--	3H	1W	
139.29	141.43	2.14	2.1	98	0.00	0	--	3H	1W	
141.43	144.78	3.35	2.39	71	0.00	0	--	3H	1W	
144.78	147.83	3.05	2.5	82	0.00	0	--	3H	1W	bottom 1/2 rubbly
147.83	150.88	3.05	2.52	83	0.11	4	--	3H	1W	
150.88	153.92	3.04	2.55	84	0.49	16	--	3H	1W	
153.92	156.97	3.05	2.81	92	0.46	15	--	3H	1W	
156.97	157.89	0.92	0.74	80	0.00	0	--	3H	1W	rubble
157.89	158.50	0.61	0.61	100	0.15	25	--	3H	1W	EOH

Magnetic Suscepatibility

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Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
5	0.232	OVB	
6	0.345	OVB	
7	0.266	GRD	
8	0.323	GRD	
9	0.405	GRD	
10	0.414	GRD	
11	0.261	GRD	
12	0.338	GRD	
13	0.374	GRD	
14	0.27	GRD	
15	0.326	GRD	
16	0.186	GRD	
17	0.294	GRD	
18	0.252	GRD	
19	0.31	GRD	
20	0.377	GRD	
21	0.274	GRD	
22	0.334	GRD	
23	0.413	GRD	
24	0.201	GRD	
25	0.377	GRD	
26	0.266	GRD	
27	0.413	GRD	
28	0.883	GRD	
29	0.388	GRD	
30	0.467	GRD	
31	0.303	GRD	
32	0.496	GRD	
33	0.367	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
34	0.444	GRD	
35	0.448	GRD	
36	0.142	GRD	
37	0.649	GRD	
38	0.233	GRD	
39	0.298	GRD	
40	0.28	GRD	
41	0	GRD	rubble
42	0	GRD	rubble
43	0.324	GRD	
44	0.158	GRD	
45	0.256	GRD	
46	0.187	GRD	
47	0.267	GRD	
48	0.223	GRD	
49	0.331	GRD	
50	0.252	GRD	
51	0.273	GRD	
52	0.277	GRD	
53	0.3	GRD	
54	0.255	GRD	
55	0.199	GRD	
56	0.227	GRD	
57	0.276	GRD	
58	0	GRD	rubble
59	0	GRD	rubble
60	0.225	FEL	
61	0.224	GRD	
62	0.191	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
63	0.238	GRD	
64	0.103	FEL	
65	0.154	FEL	
66	0.201	FEL	
66	0.201	GRD	
67	0.219	GRD	
68	0.231	FEL	
69	0.137	FEL	
70	0.208	FEL	
71	0.486	FEL	
72	0.702	GRD	
73	0.596	GRD	
74	0.311	GRD	
75	0.61	GRD	
76	0.216	GRD	
77	0.289	GRD	
78	0.287	GRD	
79	0.549	GRD	
80	5.101	GRD	
81	1.269	GRD	
82	41.36	GRD	
83	1.149	GRD	
84	6.804	GRD	
85	3.419	GRD	
86	1.206	GRD	
87	0.974	GRD	
88	6.744	GRD	
89	1.653	GRD	
90	5.771	GRD	
91	15.98	GRD	
92	7.477	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
93	0.833	GRD	
94	1.06	GRD	
95	63.79	GRD	
96	0.887	GRD	
97	8.534	GRD	
98	0.577	GRD	
99	0.633	GRD	
100	0.577	GRD	
101	0.559	GRD	
102	0.405	GRD	
103	1.31	GRD	
104	0.139	GRD	
105	0.621	GRD	
106	1.521	GRD	
107	1.184	GRD	
108	0.227	QFP	
109	0.24	GRD	
110	1.318	GRD	
111	0.628	GRD	
112	0.85	GRD	
113	4.472	GRD	
114	0.558	FEL	
115	1.117	FEL	
116	0.451	FEL	
117	0.387	FEL	
118	0.52	FEL	
119	0.733	FEL	
120	0.285	FEL	
121	0.228	FEL	
122	0.31	FEL	
123	0.179	FEL	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
124	0.978	GRD	
125	0.257	GRD	
126	0.51	GRD	
127	0.204	GRD	
128	0.168	GRD	
129	0.256	GRD	
130	0.282	GRD	
131	0.232	GRD	
132	0.28	GRD	
133	0.371	GRD	
134	0.243	GRD	
135	1.008	GRD	
136	1.61	GRD	
137	0.53	GRD	
138	0.334	GRD	
139	0.21	GRD	
140	0.143	GRD	
141	0.358	GRD	
142	0.582	GRD	
143	2.086	GRD	
144	9.631	GRD	
145	6.199	GRD	
146	0.555	GRD	
147	0.649	GRD	
148	1.057	GRD	
149	0.48	GRD	
150	1.003	GRD	
151	0.504	GRD	
152	0.167	GRD	
153	30.76	GRD	
154	0.978	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
155	6.388	GRD	
156	0.49	GRD	
157	0.164	GRD	
158	3.353	GRD	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W598787	☐	20-059	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596951	☐	20-056	Low grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598802	☐	20-059	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598781	☐	20-059	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598756	☐	20-058	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596995	☐	20-058	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596990	☐	20-058	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596986	☐	20-056	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W596956	☐	20-056	Low grade	Klaza2020-B	☐	☐	☐
6.55	8.00	1.45	GRD, OVB	1.20	83	W596929	☐	20-052	Low Grade		☐	☐	☐
8.00	9.00	1.00	GRD	0.86	86	W596930	☐	20-052	Low Grade		☐	☐	☐
9.00	10.00	1.00	GRD	1.00	100	W596931	☐	20-052	Low Grade		☐	☐	☐
10.00	11.50	1.50	GRD	1.45	97	W596932	☐	20-052	Low Grade		☐	☐	☐
11.50	13.00	1.50	GRD	1.45	97	W596933	☐	20-052	Low Grade		☐	☐	☐
11.50	13.00	1.50	GRD	1.45	97	W596934	☐	20-052	Low Grade		☐	☑	☐
13.00	14.50	1.50	GRD	1.50	100	W596935	☐	20-052	Low Grade		☐	☐	☐
14.50	15.00	0.50	GRD	0.50	100	W596936	☐	20-052	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
15.00	16.00	1.00	GRD	1.00	100	W596937	☐	20-052	Low Grade		☐	☐	☐
16.00	17.00	1.00	GRD	1.00	100	W596938	☐	20-052	Low Grade		☐	☐	☐
17.00	17.75	0.75	GRD	0.75	100	W596939	☐	20-052	Low Grade		☐	☐	☐
17.75	19.00	1.25	GRD	1.25	100	W596940	☐	20-052	Low Grade		☐	☐	☐
19.00	20.00	1.00	GRD	1.00	100	W596941	☐	20-052	Low Grade		☐	☐	☐
20.00	21.50	1.50	GRD	1.50	100	W596942	☐	20-052	Low Grade		☐	☐	☐
21.50	23.00	1.50	GRD	1.50	100	W596943	☐	20-052	Low Grade		☐	☐	☐
23.00	23.90	0.90	GRD	0.90	100	W596944	☐	20-052	Low Grade		☐	☐	☐
23.90	24.50	0.60	GRD	0.60	100	W596945	☐	20-052	Low Grade		☐	☐	☐
24.50	26.00	1.50	GRD	1.45	97	W596946	☐	20-052	Low Grade		☐	☐	☐
26.00	27.50	1.50	GRD	1.47	98	W596947	☐	20-056	Low grade		☐	☐	☐
27.50	29.00	1.50	GRD	1.48	99	W596948	☐	20-056	Low grade		☐	☐	☐
29.00	30.50	1.50	GRD	1.48	99	W596949	☐	20-056	Low grade		☐	☐	☐
30.50	31.70	1.20	GRD	1.16	97	W596950	☐	20-056	Low grade		☐	☐	☐
31.70	32.20	0.50	GRD	0.49	98	W596952	☐	20-056	Low grade		☐	☐	☐
32.20	33.70	1.50	GRD	1.48	99	W596953	☐	20-056	Low grade		☐	☐	☐
33.70	35.20	1.50	GRD	1.50	100	W596954	☐	20-056	Low grade		☐	☐	☐
35.20	36.70	1.50	GRD	1.38	92	W596955	☐	20-056	Low grade		☐	☐	☐
36.70	38.20	1.50	GRD	1.48	99	W596957	☐	20-056	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
38.20	39.70	1.50	GRD	1.44	96	W596958	☐	20-056	Low grade		☐	☐	☐
39.70	41.00	1.30	GRD	1.30	100	W596959	☐	20-056	Low grade		☐	☐	☐
41.00	42.50	1.50	GRD	0.82	55	W596960	☐	20-056	Low grade		☐	☐	☐
42.50	44.00	1.50	GRD	1.39	93	W596961	☐	20-056	Low grade		☐	☐	☐
42.50	44.00	1.50	GRD	1.39	93	W596962	☐	20-056	Low grade		☐	☐	☑
44.00	45.50	1.50	GRD	1.47	98	W596963	☐	20-056	Low grade		☐	☐	☐
45.50	47.00	1.50	GRD	1.42	95	W596964	☐	20-056	Low grade		☐	☐	☐
47.00	48.50	1.50	GRD	1.41	94	W596965	☐	20-056	Low grade		☐	☐	☐
48.50	50.00	1.50	GRD	1.33	89	W596966	☐	20-056	Low grade		☐	☐	☐
50.00	51.50	1.50	GRD	1.27	85	W596967	☐	20-056	Low grade		☐	☐	☐
51.50	53.00	1.50	GRD	1.34	89	W596968	☐	20-056	Low grade		☐	☐	☐
53.00	54.50	1.50	GRD	1.50	100	W596969	☐	20-056	Low grade		☐	☐	☐
54.50	56.00	1.50	GRD	1.38	92	W596970	☐	20-056	Low grade		☐	☐	☐
56.00	57.50	1.50	GRD	1.48	99	W596971	☐	20-056	Low grade		☐	☐	☐
57.50	59.00	1.50	GRD	1.43	95	W596972	☐	20-056	Low grade		☐	☐	☐
59.00	60.50	1.50	GRD	1.49	99	W596973	☐	20-056	Low grade		☐	☐	☐
60.50	62.00	1.50	GRD	1.40	93	W596974	☐	20-056	Low grade		☐	☐	☐
62.00	63.45	1.45	GRD	1.37	94	W596975	☐	20-056	Low grade		☐	☐	☐
63.45	64.50	1.05	FEL, GRD	0.95	90	W596976	☐	20-056	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
64.50	66.00	1.50	FEL	1.33	89	W596977	☐	20-056	Low grade		☐	☐	☐
66.00	67.50	1.50	FEL, GRD	1.46	97	W596978	☐	20-056	Low grade		☐	☐	☐
67.50	69.00	1.50	GRD	1.50	100	W596979	☐	20-056	Low grade		☐	☐	☐
67.50	69.00	1.50	GRD	1.50	100	W596980	☐	20-056	Low grade		☐	☑	☐
69.00	70.50	1.50	FEL	1.50	100	W596981	☐	20-056	Low grade		☐	☐	☐
70.50	72.00	1.50	FEL, GRD	1.50	100	W596982	☐	20-056	Low grade		☐	☐	☐
72.00	73.50	1.50	GRD	1.50	100	W596983	☐	20-056	Low grade		☐	☐	☐
73.50	74.60	1.10	GRD	1.06	96	W596984	☐	20-056	Low grade		☐	☐	☐
74.60	76.00	1.40	GRD	1.40	100	W596985	☐	20-056	Low grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.50	100	W596987	☐	20-058	Low Grade		☐	☐	☐
77.50	78.50	1.00	GRD	1.00	100	W596988	☐	20-058	Low Grade		☐	☐	☐
78.50	80.00	1.50	GRD	1.50	100	W596989	☐	20-058	Low Grade		☐	☐	☐
80.00	81.50	1.50	GRD	1.50	100	W596991	☐	20-058	Low Grade		☐	☐	☐
81.50	83.00	1.50	GRD	1.36	91	W596992	☐	20-058	Low Grade		☐	☐	☐
83.00	84.50	1.50	GRD	1.44	96	W596993	☐	20-058	Low Grade		☐	☐	☐
84.50	86.00	1.50	GRD	1.35	90	W596994	☐	20-058	Low Grade		☐	☐	☐
86.00	87.50	1.50	GRD	1.50	100	W596996	☐	20-058	Low Grade		☐	☐	☐
87.50	89.00	1.50	GRD	1.42	95	W596997	☐	20-058	Low Grade		☐	☐	☐
89.00	90.50	1.50	GRD	1.50	100	W596998	☐	20-058	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
90.50	92.00	1.50	GRD	1.35	90	W596999	☐	20-058	Low Grade		☐	☐	☐
92.00	93.50	1.50	GRD	1.42	95	W597000	☐	20-058	Low Grade		☐	☐	☐
93.50	95.00	1.50	GRD	1.50	100	W598751	☐	20-058	Low Grade		☐	☐	☐
95.00	96.50	1.50	GRD	1.50	100	W598752	☐	20-058	Low Grade		☐	☐	☐
96.50	97.40	0.90	GRD	0.87	97	W598753	☐	20-058	Low Grade		☐	☐	☐
97.40	98.45	1.05	GRD	1.05	100	W598754	☐	20-058	Low Grade		☐	☐	☐
98.45	99.06	0.61	GRD	0.60	98	W598755	☐	20-058	Low Grade		☐	☐	☐
99.06	100.50	1.44	GRD	1.41	98	W598757	☐	20-058	Low Grade		☐	☐	☐
100.50	102.00	1.50	GRD	1.50	100	W598758	☐	20-058	Low Grade		☐	☐	☐
100.50	102.00	1.50	GRD	1.41	94	W598759	☐	20-058	Low Grade		☐	☐	☑
102.00	103.00	1.00	GRD	1.00	100	W598760	☐	20-058	Low Grade		☐	☐	☐
103.00	104.00	1.00	GRD	0.94	94	W598761	☐	20-058	Low Grade		☐	☐	☐
104.00	105.50	1.50	GRD	1.50	100	W598762	☐	20-058	Low Grade		☐	☐	☐
105.50	107.00	1.50	GRD	1.48	99	W598763	☐	20-058	Low Grade		☐	☐	☐
107.00	108.50	1.50	GRD	1.50	100	W598764	☐	20-058	Low Grade		☐	☐	☐
108.50	110.00	1.50	QFP	1.41	94	W598765	☐	20-058	Low Grade		☐	☐	☐
110.00	111.50	1.50	GRD	1.50	100	W598766	☐	20-058	Low Grade		☐	☐	☐
111.50	113.00	1.50	GRD	1.39	93	W598767	☐	20-058	Low Grade		☐	☐	☐
113.00	114.50	1.50	GRD	1.50	100	W598768	☐	20-058	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
114.50	116.00	1.50	FEL	1.46	97	W598769	☐	20-058	Low Grade		☐	☐	☐
116.00	117.50	1.50	FEL	1.31	87	W598770	☐	20-058	Low Grade		☐	☐	☐
116.00	117.50	1.50	FEL	1.31	87	W598771	☐	20-058	Low Grade		☐	☑	☐
117.50	118.00	0.50	FEL	0.48	96	W598772	☐	20-058	Low Grade		☐	☐	☐
118.00	119.50	1.50	FEL	1.46	97	W598773	☐	20-058	Low Grade		☐	☐	☐
119.50	121.00	1.50	FEL	1.40	93	W598774	☐	20-058	Low Grade		☐	☐	☐
121.00	122.50	1.50	FEL	1.26	84	W598775	☐	20-058	Low Grade		☐	☐	☐
122.50	124.00	1.50	FEL	1.43	95	W598776	☐	20-058	Low Grade		☐	☐	☐
124.00	125.50	1.50	GRD	1.46	97	W598777	☐	20-059	Low Grade		☐	☐	☐
125.50	127.00	1.50	GRD	1.32	88	W598778	☐	20-059	Low Grade		☐	☐	☐
127.00	128.50	1.50	GRD	1.24	83	W598779	☐	20-059	Low Grade		☐	☐	☐
128.50	130.00	1.50	GRD	1.50	100	W598780	☐	20-059	Low Grade		☐	☐	☐
130.00	131.00	1.00	GRD	0.95	95	W598782	☐	20-059	Low Grade		☐	☐	☐
131.00	132.50	1.50	GRD	1.43	95	W598783	☐	20-059	Low Grade		☐	☐	☐
131.00	132.50	1.50	GRD	1.43	95	W598784	☐	20-059	Low Grade		☐	☐	☑
132.50	134.00	1.50	GRD	1.45	97	W598785	☐	20-059	Low Grade		☐	☐	☐
134.00	135.35	1.35	GRD	1.35	100	W598786	☐	20-059	Low Grade		☐	☐	☐
135.35	136.50	1.15	GRD	1.13	98	W598788	☐	20-059	Low Grade		☐	☐	☐
136.50	138.00	1.50	GRD	1.49	99	W598789	☐	20-059	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
138.00	139.50	1.50	GRD	1.48	99	W598790	☐	20-059	Low Grade		☐	☐	☐
139.50	141.00	1.50	GRD	1.50	100	W598791	☐	20-059	Low Grade		☐	☐	☐
141.00	142.50	1.50	GRD	1.49	99	W598792	☐	20-059	Low Grade		☐	☐	☐
142.50	144.00	1.50	GRD	1.47	98	W598793	☐	20-059	Low Grade		☐	☐	☐
142.50	144.00	1.50	GRD	1.47	98	W598794	☐	20-059	Low Grade		☐	☑	☐
144.00	145.50	1.50	GRD	1.45	97	W598795	☐	20-059	Low Grade		☐	☐	☐
145.50	147.00	1.50	GRD	1.48	99	W598796	☐	20-059	Low Grade		☐	☐	☐
147.00	148.50	1.50	GRD	1.48	99	W598797	☐	20-059	Low Grade		☐	☐	☐
148.50	150.00	1.50	GRD	1.46	97	W598798	☐	20-059	Low Grade		☐	☐	☐
150.00	151.50	1.50	GRD	1.43	95	W598799	☐	20-059	Low Grade		☐	☐	☐
151.50	153.00	1.50	GRD	1.45	97	W598800	☐	20-059	Low Grade		☐	☐	☐
153.00	154.00	1.00	GRD	0.91	91	W598801	☐	20-059	Low Grade		☐	☐	☐
154.00	155.40	1.40	GRD	1.38	99	W598803	☐	20-059	Low Grade		☐	☐	☐
155.40	156.00	0.60	GRD	0.60	100	W598804	☐	20-059	Low Grade		☐	☐	☐
156.00	157.00	1.00	GRD	0.98	98	W598805	☐	20-059	Low Grade		☐	☐	☐
157.00	158.50	1.50	GRD	1.48	99	W598806	☐	20-059	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-056	W596951	0.00	0.00	0.66	190	☐	☐	☐	☑ Klaza2020-A	klaza a
20-056	W596956	0.00	0.00	2.91	140	☐	☐	☐	☑ Klaza2020-B	klaza b
20-056	W596986	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-058	W596990	0.00	0.00	0.60	220	☐	☐	☐	☑ Klaza2020-A	klaza a
20-058	W596995	0.00	0.00	2.83	1120	☐	☐	☐	☑ Klaza2020-B	klaza b
20-058	W598756	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-059	W598781	0.00	0.00	2.82	70	☐	☐	☐	☑ Klaza2020-B	klaza b
20-059	W598787	0.00	0.00	0.63	210	☐	☐	☐	☑ Klaza2020-A	klaza a
20-059	W598802	0.00	0.00	0.01	20	☐	☐	☑	☐	blank
20-052	W596929	6.55	8.00	0.13	1260	☐	☐	☐	☐	
20-052	W596930	8.00	9.00	0.11	500	☐	☐	☐	☐	
20-052	W596931	9.00	10.00	0.17	300	☐	☐	☐	☐	
20-052	W596932	10.00	11.50	0.08	390	☐	☐	☐	☐	
20-052	W596933	11.50	13.00	0.08	140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-052	W596934	11.50	13.00	0.07	170	☑	☐	☐	☐	quarter dup
20-052	W596935	13.00	14.50	0.09	180	☐	☐	☐	☐	
20-052	W596936	14.50	15.00	0.05	140	☐	☐	☐	☐	
20-052	W596937	15.00	16.00	0.06	290	☐	☐	☐	☐	
20-052	W596938	16.00	17.00	0.06	100	☐	☐	☐	☐	
20-052	W596939	17.00	17.75	0.07	110	☐	☐	☐	☐	
20-052	W596940	17.75	19.00	0.11	240	☐	☐	☐	☐	
20-052	W596941	19.00	20.00	0.06	270	☐	☐	☐	☐	
20-052	W596942	20.00	21.50	0.11	1360	☐	☐	☐	☐	
20-052	W596943	21.50	23.00	0.09	1320	☐	☐	☐	☐	
20-052	W596944	23.00	23.90	0.07	90	☐	☐	☐	☐	
20-052	W596945	23.90	24.50	0.11	750	☐	☐	☐	☐	
20-052	W596946	24.50	26.00	0.10	1310	☐	☐	☐	☐	
20-056	W596947	26.00	27.50	0.07	1670	☐	☐	☐	☐	
20-056	W596948	27.50	29.00	0.07	1440	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-056	W596949	29.00	30.50	0.07	1040	☐	☐	☐	☐	
20-056	W596950	30.50	31.70	0.12	50	☐	☐	☐	☐	
20-056	W596952	31.70	32.20	0.08	1030	☐	☐	☐	☐	
20-056	W596953	32.20	33.70	0.08	780	☐	☐	☐	☐	
20-056	W596954	33.70	35.20	0.05	410	☐	☐	☐	☐	
20-056	W596955	35.20	36.70	0.12	190	☐	☐	☐	☐	
20-056	W596957	36.70	38.20	0.17	80	☐	☐	☐	☐	
20-056	W596958	38.20	39.70	0.16	490	☐	☐	☐	☐	
20-056	W596959	39.70	41.00	0.20	120	☐	☐	☐	☐	
20-056	W596960	41.00	42.50	0.11	220	☐	☐	☐	☐	
20-056	W596961	42.50	44.00	0.07	340	☐	☐	☐	☐	
20-056	W596962	42.50	44.00	0.15	430	☐	☑	☐	☐	coarse reject
20-056	W596963	44.00	45.50	0.06	290	☐	☐	☐	☐	
20-056	W596964	45.50	47.00	0.09	340	☐	☐	☐	☐	
20-056	W596965	47.00	48.50	0.08	360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-056	W596966	48.50	50.00	0.10	220	☐	☐	☐	☐	
20-056	W596967	50.00	51.50	0.05	300	☐	☐	☐	☐	
20-056	W596968	51.50	53.00	0.05	450	☐	☐	☐	☐	
20-056	W596969	53.00	54.50	0.09	380	☐	☐	☐	☐	
20-056	W596970	54.50	56.00	0.12	300	☐	☐	☐	☐	
20-056	W596971	56.00	57.50	0.10	160	☐	☐	☐	☐	
20-056	W596972	57.50	59.00	0.04	350	☐	☐	☐	☐	
20-056	W596973	59.00	60.50	0.04	210	☐	☐	☐	☐	
20-056	W596974	60.50	62.00	0.07	260	☐	☐	☐	☐	
20-056	W596975	62.00	63.45	0.09	540	☐	☐	☐	☐	
20-056	W596976	63.45	64.50	0.06	330	☐	☐	☐	☐	
20-056	W596977	64.50	66.00	0.05	220	☐	☐	☐	☐	
20-056	W596978	66.00	67.50	0.05	260	☐	☐	☐	☐	
20-056	W596979	67.50	69.00	0.02	350	☐	☐	☐	☐	
20-056	W596980	67.50	69.00	0.02	330	☑	☐	☐	☐	quarter dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-056	W596981	69.00	70.50	0.01	410	☐	☐	☐	☐	
20-056	W596982	70.50	72.00	0.07	330	☐	☐	☐	☐	
20-056	W596983	72.00	73.50	0.10	530	☐	☐	☐	☐	
20-056	W596984	73.50	74.60	0.13	680	☐	☐	☐	☐	
20-056	W596985	74.60	76.00	0.10	190	☐	☐	☐	☐	
20-058	W596987	76.00	77.50	0.15	290	☐	☐	☐	☐	
20-058	W596988	77.50	78.50	0.09	860	☐	☐	☐	☐	
20-058	W596989	78.50	80.00	0.10	1210	☐	☐	☐	☐	
20-058	W596991	80.00	81.50	0.07	1780	☐	☐	☐	☐	
20-058	W596992	81.50	83.00	0.12	490	☐	☐	☐	☐	
20-058	W596993	83.00	84.50	0.08	1190	☐	☐	☐	☐	
20-058	W596994	84.50	86.00	0.08	730	☐	☐	☐	☐	
20-058	W596996	86.00	87.50	0.06	1570	☐	☐	☐	☐	
20-058	W596997	87.50	89.00	0.08	1100	☐	☐	☐	☐	
20-058	W596998	89.00	90.50	0.10	160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-058	W596999	90.50	92.00	0.14	560	☐	☐	☐	☐	
20-058	W597000	92.00	93.50	0.09	750	☐	☐	☐	☐	
20-058	W598751	93.50	95.00	0.08	1540	☐	☐	☐	☐	
20-058	W598752	95.00	96.50	0.07	380	☐	☐	☐	☐	
20-058	W598753	96.50	97.40	0.08	380	☐	☐	☐	☐	
20-058	W598754	97.40	98.45	0.05	340	☐	☐	☐	☐	
20-058	W598755	98.45	99.06	0.08	170	☐	☐	☐	☐	
20-058	W598757	99.06	100.50	0.11	180	☐	☐	☐	☐	
20-058	W598758	100.50	102.00	0.20	80	☐	☐	☐	☐	
20-058	W598759	100.50	102.00	0.26	80	☐	☑	☐	☐	coarse reject
20-058	W598760	102.00	103.00	0.08	110	☐	☐	☐	☐	
20-058	W598761	103.00	104.00	0.13	470	☐	☐	☐	☐	
20-058	W598762	104.00	105.50	0.14	1300	☐	☐	☐	☐	
20-058	W598763	105.50	107.00	0.13	1330	☐	☐	☐	☐	
20-058	W598764	107.00	108.50	0.07	1040	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-058	W598765	108.50	110.00	0.08	1030	☐	☐	☐	☐	
20-058	W598766	110.00	111.50	0.12	1250	☐	☐	☐	☐	
20-058	W598767	111.50	113.00	0.09	810	☐	☐	☐	☐	
20-058	W598768	113.00	114.50	0.06	160	☐	☐	☐	☐	
20-058	W598769	114.50	116.00	0.11	750	☐	☐	☐	☐	
20-058	W598770	116.00	117.50	0.07	190	☐	☐	☐	☐	
20-058	W598771	116.00	117.50	0.08	290	☑	☐	☐	☐	quarter dup
20-058	W598772	117.50	118.00	0.04	570	☐	☐	☐	☐	
20-058	W598773	118.00	119.50	0.07	380	☐	☐	☐	☐	
20-058	W598774	119.50	121.00	0.07	210	☐	☐	☐	☐	
20-058	W598775	121.00	122.50	0.23	90	☐	☐	☐	☐	
20-058	W598776	122.50	124.00	0.05	1100	☐	☐	☐	☐	
20-059	W598777	124.00	125.50	0.01	610	☐	☐	☐	☐	
20-059	W598778	125.50	127.00	0.03	810	☐	☐	☐	☐	
20-059	W598779	127.00	128.50	0.07	550	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-059	W598780	128.50	130.00	0.06	540	☐	☐	☐	☐	
20-059	W598782	130.00	131.00	0.10	580	☐	☐	☐	☐	
20-059	W598783	131.00	132.50	0.07	150	☐	☐	☐	☐	
20-059	W598784	131.00	132.50	0.07	190	☐	☑	☐	☐	coarse reject dup
20-059	W598785	132.50	134.00	0.03	300	☐	☐	☐	☐	
20-059	W598786	134.00	135.35	0.08	160	☐	☐	☐	☐	
20-059	W598788	135.35	136.50	0.09	960	☐	☐	☐	☐	
20-059	W598789	136.50	138.00	0.09	190	☐	☐	☐	☐	
20-059	W598790	138.00	139.50	0.06	120	☐	☐	☐	☐	
20-059	W598791	139.50	141.00	0.05	370	☐	☐	☐	☐	
20-059	W598792	141.00	142.50	0.11	280	☐	☐	☐	☐	
20-059	W598793	142.50	144.00	0.05	1770	☐	☐	☐	☐	
20-059	W598794	142.50	144.00	0.06	1270	☑	☐	☐	☐	quarter dup
20-059	W598795	144.00	145.50	0.04	1420	☐	☐	☐	☐	
20-059	W598796	145.50	147.00	0.08	400	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-059	W598797	147.00	148.50	0.14	370	☐	☐	☐	☐	
20-059	W598798	148.50	150.00	0.10	260	☐	☐	☐	☐	
20-059	W598799	150.00	151.50	0.06	690	☐	☐	☐	☐	
20-059	W598800	151.50	153.00	0.09	430	☐	☐	☐	☐	
20-059	W598801	153.00	154.00	0.39	230	☐	☐	☐	☐	
20-059	W598803	154.00	155.40	0.12	300	☐	☐	☐	☐	
20-059	W598804	155.40	156.00	0.22	170	☐	☐	☐	☐	
20-059	W598805	156.00	157.00	0.07	800	☐	☐	☐	☐	
20-059	W598806	157.00	158.50	0.09	1140	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
9.50	9.54	BN		50	NUL	1	band of hematite alteration, vein?			
								He	10	---
15.50	16.00	SH	81	15	NUL	1	rubbly sheared interval			
16.74	16.76	VT	37	58	NUL	1	small qtz vein with minor py			
								Py	3	---
17.40	17.50	FR	5	15	NUL	1	sheared strained vein / fracture set			
17.70	17.72	VT	37	50	NUL	1	qtz py veinlet			
								Py	5	---
17.75	17.76	VT	37	70	NUL	1	small qtz veinlet with minor py			
								Py	3	---
35.60	37.00	SH	81	20	NUL	2	gougy shears in faulted rock			
63.20	63.21	VT	37	30	NUL	1	small vein with qtz an py			
								Py	5	---
63.25	63.26	VT	37	60	NUL	1	small qtz veinlet with py			
								Py	5	---
63.45	63.46	FR	5	25	NUL	1	contact between dyke and grd			
66.50	66.70	SH	81	30	NUL	1	sheared interval			
70.85	70.86	SH	81	25	NUL	1	sheared comtact between dyke and grd			
74.70	78.50	SH	81	25	NUL	5	shears in strained altered grd			
95.15	95.16	VT	37	55	NUL	1	small qtz-py veinlet			
								Py	5	---
98.70	98.90	VN	37	25	NUL	3	pinkish cream coloured carbonate veinlets separated by gry clay-gouge			
101.60	101.64	VT	37	55	NUL	3	swarm of qtz py veinlets with trace cpy			
								Py	10	---
								Cp	0.5	---
103.50	103.53	VT	37	30	NUL	1	qtz py carbonate veinlet			
								Py	5	---
109.50	109.52	VT	37	30	NUL	1	qtz py chl veinlet			
								Py	5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
117.50	117.60	VT	37	65	NUL	2	two small >1c qtz py veinlets			
								Py	3	---
128.90	128.91	SH	81	20	NUL	1	small mineralized shear/vein. Strong contact between altered and unaltered grd			
131.00	131.03	VT	37	50	NUL	1	poorly mineralized qtz veinlet			
								Py	2	---
135.50	135.51	FR	5	31	NUL	1	qtz carbonate with minor py			
								Py	2	---
136.70	138.30	ST		26	NUL	7	set of small stringers with qtz carbonate py infill			
153.70	153.71	VT	37	38	NUL	1	py qtz magnetite qirh minor cpy			
								Cp	1	---
								Py	20	---
								Mg	20	---

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		382619	6889943	1404	857.69

ZONE: Central Klaza

SECTION:

HOLE: KL -20-487

CLAIM: YC39051

Contractor: Kluane Drilling

Drill: 2

Core Size: HTW

Casing Depth: 6.1m, Out

Drilling Dates: Oct 01 - Oct 21, 2020

Geology Logged By: S. Fromme

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Klaza zone

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	0.3	0.3	CAS
0.3	2.68	2.38	GRD
2.68	32.09	29.41	GRD
32.09	32.22	0.13	VEN
32.22	87.81	55.59	GRD
87.81	89.92	2.11	BXA
89.92	114.37	24.45	QFP
114.37	140.86	26.49	GRD
140.86	148.85	7.99	QFP
148.85	181.01	32.16	GRD
181.01	181.16	0.15	VEN
181.16	183	1.84	GRD
183	183.64	0.64	VEN
183.64	197.3	13.66	GRD
197.3	198.51	1.21	GRD
198.51	225.63	27.12	GRD

SAMPLES	
Numbers:	B700517 to B700533, B700756 to B700767, B700773 to B700777, B700784 to B700800, C304221 to C304269, C304501 to C304750,
Total:	540
Batch:	036, 055, 057, 060, 062, 063, 065, 068, 069, 071,
Certificates:	WH20233995, WH20234008, WH20234019, WH20234038, WH20234044, WH20234063, WH20238418, WH20238433, WH20240068, WH20240093, WH20240095, WH20243277,

COMMENTS

Deep exploration hole. Core logging taken over by Evan Hall at 716m. EOH given by drillers was 857.40m, measured to be 857.69m.
Handheld GPS accuracy of 1.8m

225.63	225.86	0.23	QFP
225.86	237.61	11.75	GRD
237.61	238.12	0.51	VEN
238.12	239.8	1.68	GRD
239.8	241.47	1.67	BXA
241.47	269.74	28.27	GRD
269.74	271.44	1.7	GRD
271.44	275.62	4.18	GRD
275.62	276.02	0.4	BXA
276.02	276.96	0.94	VEN
276.96	277.16	0.2	VEN
277.16	295.24	18.08	GRD
295.24	295.65	0.41	GRD
295.65	299.39	3.74	GRD
299.39	302.03	2.64	GRD
302.03	321.12	19.09	GRD
321.12	322.16	1.04	VEN
322.16	322.67	0.51	BXA
322.67	335.48	12.81	GRD
335.48	336.47	0.99	GRD
336.47	365.76	29.29	GRD
365.76	367.83	2.07	GRD
367.83	402.98	35.15	GRD
402.98	429.38	26.4	GRD
429.38	460.25	30.87	GRD
460.25	477.14	16.89	QFP
477.14	487.82	10.68	GRD
487.82	487.93	0.11	VEN
487.93	515.7	27.77	GRD
515.7	515.8	0.1	VEN
515.8	523.02	7.22	GRD
523.02	527.27	4.25	QFP

527.27	528.27	1	GRD
528.27	528.45	0.18	VEN
528.45	529.3	0.85	FLT
529.3	530.1	0.8	FLT
530.1	532.42	2.32	GRD
532.42	532.92	0.5	QFP
532.92	533.38	0.46	GRD
533.38	541.09	7.71	QFP
541.09	545.17	4.08	GRD
545.17	545.39	0.22	VEN
545.39	547.63	2.24	GRD
547.63	547.72	0.09	VEN
547.72	607.94	60.22	GRD
607.94	608.18	0.24	VEN
608.18	608.96	0.78	GRD
608.96	614.83	5.87	QFP
614.83	615.08	0.25	BXA
615.08	615.16	0.08	GRD
615.16	615.31	0.15	VEN
615.31	615.46	0.15	GRD
615.46	615.53	0.07	VEN
615.53	643.41	27.88	GRD
643.41	648.2	4.79	VOL
648.2	649.93	1.73	QFP
649.93	650.17	0.24	GRD
650.17	650.34	0.17	QFP
650.34	651.07	0.73	VOL
651.07	651.74	0.67	QFP
651.74	652.29	0.55	GRD
652.29	652.96	0.67	QFP
652.96	663.39	10.43	GRD
663.39	668.36	4.97	QFP

668.36	684.63	16.27	GRD
684.63	685.32	0.69	VEN
685.32	685.5	0.18	GRD
685.5	687.83	2.33	GRD
687.83	689.08	1.25	VEN
689.08	716.65	27.57	GRD
716.65	716.72	0.07	VEN
716.72	728.6	11.88	GRD
728.6	728.7	0.1	APL
728.7	729.69	0.99	GRD
729.69	733.79	4.1	SIL
733.79	733.84	0.05	VEN
733.84	734	0.16	SIL
734	740.94	6.94	GRD
740.94	741.1	0.16	BXA
741.1	755.03	13.93	GRD
755.03	755.6	0.57	SIL
755.6	761.17	5.57	GRD
761.17	761.81	0.64	VEN
761.81	761.86	0.05	VEN
761.86	762.54	0.68	GRD
762.54	762.69	0.15	VEN
762.69	769.4	6.71	GRD
769.4	775.4	6	GRD
775.4	775.93	0.53	BXA
775.93	783.53	7.6	GRD
783.53	783.61	0.08	VEN
783.61	787.33	3.72	GRD
787.33	788.4	1.07	GRD
788.4	788.5	0.1	VEN
788.5	813.63	25.13	QFP
813.63	857.69	44.06	FEL

Box Log

KL -20-487

Klaza
:entral Klaza Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0.3	3.99
2	3.99	6.78
3	6.78	9.96
4	9.96	12.87
5	12.87	15.86
6	15.86	18.8
7	18.8	21.83
8	21.83	25.08
9	25.08	28.29
10	28.29	30.84
11	30.84	33.91
12	33.91	36.8
13	36.8	39.92
14	39.92	42.87
15	42.87	46.1
16	46.1	48.9
17	48.9	52.17
18	52.17	55.14
19	55.14	58.13
20	58.13	61.29
21	61.29	64.39
22	64.39	67.66
23	67.66	70.84
24	70.84	73.59
25	73.59	76.73
26	76.73	79.7
27	79.7	82.67
28	82.67	85.49
29	85.49	88.5
30	88.5	91.24
31	91.24	94.36
32	94.36	97.7
33	97.7	100.72
34	100.72	103.85
35	103.85	107.14
36	107.14	110.38
37	110.38	113.42
38	113.42	116.4
39	116.4	119.45
40	119.45	122.76
41	122.76	125.77
42	125.77	129
43	129	132.26
44	132.26	135.54
45	135.54	138.68
46	138.68	141.73
47	141.73	144.78
48	144.78	147.69
49	147.69	150.76
50	150.76	153.8
51	153.8	156.97
52	156.97	160.25
53	160.25	163.38
54	163.38	166.12
55	166.12	168.39
56	168.39	171.31
57	171.31	174.34
58	174.34	177.54
59	177.54	180.7
60	180.7	183.56
61	183.56	186.8
62	186.8	189.9
63	189.9	193.06
64	193.06	196.27
65	196.27	199.23
66	199.23	201.93
67	201.93	205
68	205	208.25
69	208.25	211.4
70	211.4	214.72
71	214.72	217.93
72	217.93	221.23
73	221.23	224.55
74	224.55	227.6
75	227.6	230.57
76	230.57	233.76
77	233.76	236.84
78	236.84	239.8
79	239.8	242.85
80	242.85	245.9
81	245.9	248.88
82	248.88	252.12
83	252.12	255.28
84	255.28	258.49
85	258.49	261.8
86	261.8	264.92
87	264.92	268.18
88	268.18	271.26
89	271.26	274.13
90	274.13	277.16

Box Number	From (m)	To (m)
91	277.16	280.42
92	280.42	283.69
93	283.69	286.82
94	286.82	290.12
95	290.12	293.18
96	293.18	295.84
97	295.84	299
98	299	301.75
99	301.75	304.8
100	304.8	307.88
101	307.88	310.9
102	310.9	314.21
103	314.21	317.49
104	317.49	320.84
105	320.84	324.19
106	324.19	327.18
107	327.18	330.55
108	330.55	333.79
109	333.79	336.25
110	336.25	339.7
111	339.7	342.9
112	342.9	346.07
113	346.07	349.39
114	349.39	352.78
115	352.78	355.7
116	355.7	358.72
117	358.72	361.91
118	361.91	364.95
119	364.95	367.83
120	367.83	370.76
121	370.76	373.81
122	373.81	376.76
123	376.76	379.78
124	379.78	382.98
125	382.98	385.84
126	385.84	388.95
127	388.95	392.22
128	392.22	395.24
129	395.24	398.39
130	398.39	400.81
131	400.81	404.87
132	404.87	408.44
133	408.44	413
134	413	417.66
135	417.66	421.17
136	421.17	424.79
137	424.79	429.07
138	429.07	433.02
139	433.02	437.39
140	437.39	441.53
141	441.53	445.34
142	445.34	449.72
143	449.72	454.16
144	454.16	458.56
145	458.56	462.9
146	462.9	467.38
147	467.38	471.88
148	471.88	476.35
149	476.35	480.85
150	480.85	485.3
151	485.3	489.78
152	489.78	494.3
153	494.3	498.58
154	498.58	502.98
155	502.98	507.49
156	507.49	511.67
157	511.67	516.12
158	516.12	520.51
159	520.51	524.94
160	524.94	529.29
161	529.29	533.31
162	533.31	537.56
163	537.56	541.63
164	541.63	546.07
165	546.07	550.45
166	550.45	554.95
167	554.95	559.31
168	559.31	563.76
169	563.76	568.25
170	568.25	572.85
171	572.85	577.29
172	577.29	581.57
173	581.57	586.02
174	586.02	590.37
175	590.37	594.72
176	594.72	599.09
177	599.09	603.32
178	603.32	607.49
179	607.49	611.75
180	611.75	616.1
181	616.1	620.52
182	620.52	624.85
183	624.85	628.65
184	628.65	633.02
185	633.02	637.27
186	637.27	641.6

Box Number	From (m)	To (m)
187	641.6	645.19
188	645.19	648.97
189	648.97	653.04
190	653.04	657.15
191	657.15	661.45
192	661.45	665.57
193	665.57	669.31
194	669.31	673.66
195	673.66	678.18
196	678.18	682.18
197	682.18	686.29
198	686.29	690.41
199	690.41	694.89
200	694.89	699.04
201	699.04	703.15
202	703.15	707.51
203	707.51	711.88
204	711.88	716.05
205	716.05	720.4
206	720.4	724.63
207	724.63	728.84
208	728.84	733.18
209	733.18	737.91
210	737.91	742.19
211	742.19	746.58
212	746.58	750.96
213	750.96	755.49
214	755.49	759.92
215	759.92	764.28
216	764.28	768.61
217	768.61	772.98
218	772.98	777.47
219	777.47	781.81
220	781.81	786.19
221	786.19	790.55
222	790.55	794.65
223	794.65	798.67
224	798.67	802.47
225	802.47	805.95
226	805.95	810.16
227	810.16	814.32
228	814.32	818.61
229	818.61	822.47
230	822.47	826.84
231	826.84	831.15
232	831.15	835.4
233	835.4	839.84
234	839.84	844.17
235	844.17	848.4
236	848.4	852.41
237	852.41	856.97
238	856.97	857.4
Box Number	From (m)	To (m)

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-487									
	3.83	15.5	HTW	GRD	1672.1	1049.6	2.8	2.7	
	47.07	17	HTW	GRD	1808.6	1136.6	2.76	2.7	
	68.04	22.5	HTW	GRD	2258.2	1417.4	2.61	2.7	
	93.41	19	HTW	QFP	1909.9	1191.1	2.61	2.7	
	121.21	20	HTW	GRD	1666.1	1052.2	2.16	2.7	very clay altered granodiorite
	143.82	16	HTW	QFP	1527.7	936.5	2.48	2.6	
	149.65	21.5	HTW	GRD	2102.5	1384.6	2.54	2.9	17% of sample is vein with evident sulphides (galena, pyrite, honey sphalerite and minor arseno)
	155.93	18.75	HTW	GRD	1925.5	1208.3	2.67	2.7	potassically altered granodiorite
	187.45	22.4	HTW	GRD	2445.1	1541.1	2.84	2.7	clay altered granodiorite
	217.68	19.5	HTW	GRD	1990.2	1241.3	2.65	2.7	
	258.1	16.25	HTW	GRD	1692.4	1064.5	2.71	2.7	coarse grained granodiorite
	286.51	17	HTW	GRD	1889.4	1191.3	2.89	2.7	chlorite altered granodiorite
	352	12.75	HTW	GRD	1339.8	863.4	2.73	2.8	quartz carbonate vuggy vein with minor sphalerite, galena, pyrite (~0.5% of sample)
	362.71	15	HTW	GRD	1663.1	1044.9	2.88	2.7	
	383.93	18	HTW	GRD	1796.4	1130.3	2.59	2.7	clay altered granodiorite
	440.56	14.5	NTW	GRD	818.9	493.2	2	2.5	chlorite- clay altered granodiorite
	452.63	20.5	NTW	GRD	1353.6	850.9	2.34	2.7	
	468.32	14	NTW	QFP	948	594.1	2.39	2.7	clay altered qfp dyke
	492.06	19	NTW	GRD	1314.7	848.1	2.45	2.8	clay- chlorite altered granodiorite
	506.09	17.2	NTW	GRD	1175.3	730.2	2.42	2.6	clay altered granodiorite

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
	511.67	13	NTW	GRD	882.8	565.5	2.4	2.8	clay + chlorite altered coarse grained granodiorite with carbonate + quartz blebs and minor sphalerite. Pyrite on fracture/ joint surfaces
	528.4	23	BTW	VEN	1119.6	799.1	3.51	3.5	quartz + carbonate vein with abundant pyrite and minor chalcopyrite. Sulphides are approximately 28.63% of sample
	537.56	18.25	BTW	QFP	683.5	429.7	2.7	2.7	clay altered fine grained greenish grey quartz feldspar porphyry. Feldspars are altered to clay after sprayed with water.
	547.61	16.4	BTW	GRD	657.9	436.6	2.9	3.0	sulphide vein ~ 28% of sample
	561.6	17.8	BTW	GRD	675.8	424.6	2.74	2.7	slightly clay altered medium grained granodiorite
	578.99	14.5	BTW	GRD	526	332.7	2.62	2.7	clay altered granodiorite
	598.93	15	BTW	GRD	573.4	359.4	2.76	2.7	slightly chlorite altered fine-medium grained granodiorite
	615.18	16.5	BTW	VEN	816.8	598.8	3.57	3.8	quartz + sulphide vein ~85% of sample
	616.02	24	BTW	GRD	881	571.9	2.65	2.9	clay altered quartz feldspar porphyritic dyke
	631.64	19.5	BTW	GRD	723.8	453.8	2.68	2.7	chlorite and clay altered granodiorite with minor epidote and pyrite blebs throughout and hematite on fracture surfaces

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
	664.38	12.7	BTW	QFP	516	306.2	2.93	2.5	possible Stealfighter dyke from KL-12-265. dark green- almost black matrix with light beige clay altered feldspar phenos and ankerite/ carbonate veins throughout. Hematite staining and chlorite alteration on exposed fracture surfaces
	668.59	15.7	BTW	GRD	574.9	356.9	2.64	2.6	clay + chlorite altered medium grained granodiorite with minor hematite staining
	688.27	11	BTW	VEN	426.1	268.1	2.8	2.7	light greenish grey clay altered md grained granodiorite with disseminated pyrite on fracture surfaces
	714.45	19.5	BTW	GRD	713.3	450	2.64	2.7	clay altered md grained grd
	716.17	12	BTW	GRD	447.9	297.8	2.69	3.0	vuggy grey chalcedony breccia with pyrite, sphalerite and trace galena. Sphalerite occurs as euhedral grains in quartz vug, light red/ clear red in colour. Vein is composed ~8% sulphides
	731.06	15	BTW	SIL	504.8	316.8	2.43	2.7	silicified qfp dyke? Dark purplish brown to medium grey brown with very fine grained feldspar phenos that are clay/ chlorite altered. Alteration haloes around darker clasts and abundant carbonate + pyrite veinlets cutting through. Disseminated pyrite throughout
	837.17	24.2	BTW	FEL	881.4	556.5	2.63	2.7	light reddish grey felsic rhyolite (?) dyke with ~2% disseminated pyrite throughout

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.30	0.30	CAS	--	Casing no core recovered.							
0.30	2.68	2.38	GRD	--	OVB - there is 4 cm of rubbled and re-drilled core at the start of the interval and then we get into a competent piece of core for 50 cm and then we get into rubble and residual soil. Then we have some more competent core and another section of rubbled up core with residual soil.							
						LT	GY	PH				
						LT	PK					
						LT	WH					
						DK	BL					
						DK	GN					
2.68	3.05	0.37	GRD	CG	Same as the general lithology.							
3.05	3.66	0.61	GRD	CG	Same as general lithology except there is a long fracture occurring in this interval occurring at 5 degrees tca.							
3.66	8.99	5.33	GRD	CG	Same as general lithology. There are local large blebs of chlorite in this interval. Locally appearing xenolithic with coarse grains occurring in the chloritic blebs.							
8.99	9.02	0.03	VEN	FG	Small white quartz vein with a local alteration halo around the vein with patchy pervasive limonite alteration.							
9.02	14.62	5.60	GRD	CG	Same as general lithology except there is patchy white clay alteration coming in along fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
14.62	18.60	3.98	GRD	CG	A mixed zone of altered and un-altered granodiorite. At the upper contact we see a shear that is sub parallel tca (14.63 - 14.89 m) and there is light blue clay alteration. There is a local section of pervasive chloritic alteration at 15.17 - 15.24 m that is coming in along fracture surfaces. There are also two local zones of light green/ yellow strong clay alteration at 15.56 - 16.0 m and 17.26 - 18.60 m that also have chloritic alteration halos staining the clay alteration.							
18.60	31.54	12.94	GRD	CG	Same as the general lithology.							
31.54	32.09	0.55	GRD	CG	Zone of strong clay alteration that is white as well as light green/ yellow. There is weak potassic alteration. That is occurring around a quartz vein.							
32.09	32.22	0.13	VEN	FG	Quartz vein with sulphides. Dark grey and light grey quartz with blebby pyrite, sphalerite and galena. The sulphides are disseminated throughout this vein.							
											Gn	0.1
											Py	1
											Sp	0.5
32.22	32.92	0.70	GRD	CG	Zone of light yellow/ green strong clay alteration. There is local white clay alteration with moderate potassic alteration. There is a small quartz stringer with sulphides in it at 32.86 m. The quartz is light grey with blebby sphalerite and some minor galena.							
											Gn	0.1
											Sp	1
32.92	33.42	0.50	GRD	CG	There is a mixed zone of alteration with light green / blue with moderate potassic alteration. Then there is strong white clay alteration and then back to light green / yellow clay alteration.							
33.42	34.81	1.39	GRD	CG	Same as general lithology.							
34.81	35.60	0.79	GRD	CG	There is a mixed zone of alteration with light white / blue with moderate potassic alteration. Then there is strong light green / yellow clay alteration. There is a quartz veinlet with pyrite running through the middle of the quartz.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	0.1
35.60	38.34	2.74	GRD	CG	Same as the general lithology. Fairly unaltered granodiorite.							
38.34	39.75	1.41	GRD	CG	Mixed zone of alteration but predominantly light green/ yellow in color. There is also strong white clay alteration with weak potassic alteration. There is local gouge zone at 39.0 - 39.06 m after with gouge zone we see blebby sphalerite as well as trace galena in a quartz vein. There are also two pyrite stringers occuring after this vein.							
											Gn	0.1
											Py	0.5
											Sp	2
39.75	40.40	0.65	GRD	CG	Same as general lithology but with local green/ yellow clay alteration.							
40.40	41.15	0.75	GRD	CG	Zone of strong yellow / green clay alteration. There are two qurtz/ sulphide veinlet in this interval at 40.56 - 40.61 m. They range in size from 4 - 7 mm wide. The first vein has pyrite and sphalerite and the second veinlet has pyrite as well as sphalerite. Pyrite and spalerite is blebby. Vein is light grey quartz. There is patchy cream colored carbonate alteation in the vein as well.							
											Py	1
											Sp	0.5
41.15	58.12	16.97	GRD	CG	Same as general lithology - fairly un-altered granodiorite. There are local strong zones of strong potassic alteration that is salmon colored (43.50 - 44.20 m). There are also zones of strong chloritic alteration at 51.80 - 52.30 m. Along local fracture surfaces there is hematite alteration.							
58.12	58.30	0.18	GRD	CG	Zone of strong white clay alteration with local light blue as well. There is moderate potassic alteration. At the lower contact is gradational and there is moderate chloritic alteration.							
58.30	63.60	5.30	GRD	CG	Same as general lithology. Fairly un-altered granodiorite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.60	65.29	1.69	GRD	CG	This is a zone of darker potassic alteration that is light pink in color as well as some moderate chloritic alteration.							
65.29	65.65	0.36	GRD	CG	Strong white and light blue clay alteration with moderate to strong potassic alteration.							
65.65	66.75	1.10	GRD	CG	Zone of stronger potassic alteration.							
66.75	68.27	1.52	GRD	CG	Zone of strong light green/ yellow clay alteration. Patchy zones of limonite coming in along fracture surfaces. There are also black spots occurring locally in this unit as well locally along fracture surfaces with pyrite and trace galena. It is radiating on the fracture surfaces. Possible pyrolusite? Or tourmaline?							
											Gn	0.1
											Py	0.1
68.27	69.94	1.67	GRD	CG	Zone of stronger chloritic alteration with weak to moderate potassic alteration. Along fracture surface we see weak white to light blue clay alteration. There is also limonite coming in along fracture surfaces. There is chloritic coming in along fracture surfaces and there is a sharp lower contact.							
69.94	71.63	1.69	GRD	CG	Zone of weak to moderate clay alteration that is light green / yellow. There are black flecks throughout this interval (possibly tourmaline?). There is also some minor pyrite.							
											Py	0.1
71.63	77.08	5.45	GRD	CG	Zone of strong white to light green/ yellow clay alteration. Locally there is limonite and hematite alteration coming in along fracture surfaces. Locally there is black flecks of tourmaline? And there is pyrite occurring along fracture surfaces as well as disseminated.							
											Py	0.1
77.08	77.13	0.05	VEN	FG	Quartz vein with sulphides - the quartz is white to light pink in color with light grey and dark grey. There is blebby pyrite, galena as well as some minor sphalerite. Galena is occurring as blebby and along the vein selvage. There is also a black radiating mineral in the quartz.							
											Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Gn	1.5
											Py	1
77.13	78.50	1.37	GRD	CG	Zone of strong clay alteration that is light yellow/ green with patchy white. There is patchy pervasive limonite alteration. There is also a brecciated vein zone at the top of this interval at 77.20 - 77.30 m.							
78.50	80.28	1.78	GRD	CG	Zone of strong chloritic alteration with weak to moderate potassic alteration that grades into a stronly white clay altered.							
80.28	84.48	4.20	GRD	CG	Zone of strong clay alteration that is predominantly white to locally light blue in color. It is locally also limonite altered to the clay alteration. There is also local moderate potassic alteration. There is local strong chloritic alteration as well.							
84.48	86.87	2.39	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration. There is local limonite along fracture surfaces. Sharp lower contact.							
86.87	87.81	0.94	GRD	CG	Zone of strong white clay alteration as well as light yellow / green with local moderate potassic alteration. There are also local strong chloritic blebs.							
87.81	89.92	2.11	BXA	FG	Brecciated QFP dyke that has limonite coming in along fracute surfaces. Dyke is light to medium grey in color. Locally this interval is very gougy with small clasts floating in the gouge.							
						MD	GY					
						LT	GY	PO	LIM	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
89.92	114.37	24.45	QFP	FG	Light grey / green to medium brown with local sections of medium brown / purple due to pervasive hematite alteration. At the upper contact of this dyke we see local foliation texture - 60 degrees tca. The upper portion of this interva is rubbled and broken up. Phenocrysts in this interval are clay altered there is also unaltered glassy grey quartz phenocrysts. Theres a local brecciated zone at 100.33 - 100.4 m. This dyke is foliated at the lower contact as well - 60 degrees tca							
						LT	GY	PO	CLY	2I		
						LT	BF					
						LT	GN					
						DK	PU					
						DK	BN					
114.37	114.80	0.43	GRD	CG	Zone of strong white clay alteration with moderate potassic. There is also some local blebby chloritic alteration.							
114.80	117.90	3.10	GRD	CG	Zone of moderate to strong chloritic alteration with moderate to strong potassic alteration. Sharp lower contact.							
117.90	119.01	1.11	GRD	CG	Mixed zone of alteration with strong white to light green/ yellow. There is also local strong zones of potassic alteration with chlorite.							
119.01	120.75	1.74	GRD	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. Sharp lower contact.							
120.75	122.11	1.36	GRD	CG	Zone of strong clay alteration that is white at the upper contact and grades into a light green / yellow. Sharp lower contact. At the upper contact we also see moderate potassic alteration and then it grades out. There are two dark grey quartz veinlets in this interval.							
122.11	123.96	1.85	GRD	CG	Zone of moderate to strong chloritic alteration with moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
123.96	125.46	1.50	GRD	CG	Predominantly strong white clay alteration with local light blue there is also moderate to strong potassic alteration in this interval. There are also local zones of light green / yellow clay alteration. Sharp lower contact.							
125.46	130.38	4.92	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration. There are local blebs of chloritic alteration. Sharp lower contact.							
130.38	131.14	0.76	GRD	CG	Zone of light green / yellow clay alteration with local quartz veining - at 130.64 - 130.70 m. White to light grey quartz with white to cream colored carbonate alteration. There is blebby pyrite and galena. Galena is disseminated while pyrite is occurring in bands in and near the quartz veining. Weak potassic alteration at the upper and lower contacts. Sharp lower contact.							
											Py	1.5
											Gn	0.1
131.14	132.12	0.98	GRD	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. There is chlorite coming in along fracture surfaces as well.							
132.12	132.59	0.47	GRD	CG	Zone of strong light yellow/ green clay alteration with weak potassic alteration at the upper and lower contacts. In the middle of this interval there is sulphide veining at 132.39 - 132.45 m. There are two separate sulphide veins 5 mm wide. The first one is dominantly galena and the second one is pyrite.							
											Py	2
											Gn	1.5
132.59	134.97	2.38	GRD	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. Chlorite coming in along local large blebs as well as along fracture surfaces.							
134.97	136.15	1.18	GRD	CG	Zone of strong white clay alteration with local light blue as well as moderate to strong potassic alteration. There is a sulphide veinlet at 135.39 - 135.40 m. Veinlet is 6 mm wide and has white to light grey quartz with blebby pyrite.							
											Py	2.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
136.15	138.38	2.23	GRD	CG	Mixed zone of alteration with strong white clay alteration with moderate to strong potassic alteration. Also there are zones of strong chloritic alteration.							
138.38	140.86	2.48	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration.							
140.86	148.85	7.99	QFP	FG	QPF dyke with much small phenocrysts than normal. In this interval they have been clay altered (white). There is no quartz phenocrysts in this interval. This interval is light grey in color to locally dark purple in color. There is fracturing throughout this interval. There is slight brecciation at the upper contact at 141.0 - 141.07 m. The lower contact is also brecciated and gougy.							
						LT	GY	PO	CLY	2I		
						DK	PU		HEM	3I		
						DK	OR					
148.85	148.93	0.08	VEN	FG	Quartz / sulphide vein zone. There are two quartz veinlets that are 4 mm wide. The quartz is white to light grey with blebby galena and spalerite.							
											Sp	1
											Gn	1
148.93	149.53	0.60	BXA	CG	Zone of brecciation with abundant gouge along fracture surfaces. There is disseminated medium grained pyrite at the lower contact.							
											Py	0.1
149.53	149.88	0.35	VEN	FG	Quartz / sulphide vein zone. Veins are 2.5 - 4 cm wide. The quartz is white to light grey with blebby pyrite, galena, sphalerite as well as arsenopyrite. The arsenopyrite is fine grained but clustered together.							
											Gn	1.5
											Sp	1
											As	0.5
											Py	2.5
149.88	150.49	0.61	GRD	CG	Zone of strong yellow/ green clay alteration. Sharp lower contact.							
150.49	151.44	0.95	GRD	CG	Zone of strong chloritic and moderate potassic alteration. Chlorite is coming in along fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
151.44	166.60	15.16	GRD	CG	Zone of fairly fresh and unaltered granodiorite except for some blebby chlorite alteration as well as moderate to locally strong potassic alteration ranging from light pink to darker salmon colored. Theres patchy hematite staining in this interval as well. There is local epidote comig in along fracture surfaces. There are minor quartz stringers in this interval.							
166.60	169.46	2.86	GRD	CG	Zone of dark green chloritic alteration.							
169.46	175.70	6.24	GRD	CG	Zone of mixed atleration with zones of dark chloritic alteration as well as strong white clay alteration to light yellow/ green. This interval has local brecciation. As well we have local quartz/ sulphide veins at 169.80 - 169.81 m, 170.40 - 170.50 m, and 173.55 - 173.57 m. The first one is 5 mm wide and has white quartz with blebby galena in a band. The second one is a shallowly dipping quartz vein that is white with blebby pyrite. The third one is a section of rubbled of pyrite stringer.							
											Gn	0.1
											Py	0.1
175.70	177.50	1.80	GRD	CG	Zone of mixed alteration with a zone of strong white clay alteration with moderate potassic alteration. There is also light green/ yellow clay alteration. There is dark green chloritic alteration with moderate potassic alteration.							
177.50	181.01	3.51	GRD	CG	Mixed zone of strong clay alteration that is light green/ yellow also with zones of dark green chloritic alteration with weak potassic alteration. There is also a hematite band that is 4 cm wide.							
181.01	181.16	0.15	VEN	FG	Quartz / sulphide vein. The quartz is white to light grey with blebby sulphides - pyrite, galena and sphalerite. There is also light white to cream colored carbonate in this vein.							
											Py	1.5
											Gn	1
											Sp	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
181.16	183.00	1.84	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There is local brecciation with gouge occurring along fracture surfaces. There is also a veinlet of black tourmaline? Along a breccia zone.							
						LT	GN	PH	CLY	4I		
						LT	YW					
						LT	GY					
183.00	183.64	0.64	VEN	FG	Quartz / calcite vein. The vein is white to cream colored there is also black tourmaline occurring in local clasts associated with pyrite.							
						LT	CR				To	0.5
						LT	WH				Py	0.1
183.64	185.02	1.38	GRD	CG	Zone of strong clay alteration that is light yellow / green in color there is also so dark green chloritic alteration locally pervasive. Sharp lower contact.							
185.02	186.37	1.35	GRD	CG	Zone of light green clay alteration as well as strong chloritic blebby alteration. At the latter half of the interval we see the presesence of potassic alteration coming in - weak to moderate.							
186.37	186.92	0.55	GRD	CG	Zone of strong clay alteration that is light green to yellow in color.							
186.92	186.98	0.06	GRD	FG	Quartz / sulphide vein. The quartz is dark grey to light grey to white with blebby sphalerite, pyrite and galena.							
											Py	0.5
											Sp	1.5
											Gn	0.1
186.98	188.62	1.64	GRD	CG	Zone of strong light yellow to green clay alteration. The lower contact is gradational with chlorite and potassic alteration comin in at the lower contact.							
188.62	190.11	1.49	GRD	CG	Zone of more fresh granodiorite with weak chloritic alteration as well as moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
190.11	190.74	0.63	GRD	CG	Zone of chloritic alteration with moderate potassic alteration.							
190.74	195.04	4.30	GRD	CG	Zone of more fresh granodiorite with weak chloritic alteration as well as moderate to strong potassic alteration. There is chlorite coming in along fracture surfaces as well as local blebs of chlorite. Sharp lower cotact.							
195.04	197.30	2.26	GRD	CG	Zone of strong white clay alteration with moderate potassic alteration. There is dark chloritic alteration coming in along fracture surfaces.							
197.30	198.51	1.21	GRD	CG	Small fault zone hosted in granodiorite. Zone is strongly clay altered that is light green / yellow in color. This fault is predominantly rubble with some minor gouge. Rubble - 90% and gouge - 10%.							
						LT	GN	PH	CLY	3I		
						LT	WH					
						LT	YW					
198.51	199.74	1.23	GRD	CG	Zone of strong clay alteration that is light green to yellow in color. 199.27 - 199.30 m is a broken up quartz sulphide vein with white to grey quartz with blebby galena and minor pyrite.							
											Gn	1
											Py	0.1
199.74	200.51	0.77	GRD	CG	Zone of strong white clay alteration with moderate potassic alteration also there is local chloritic blebs.							
200.51	202.52	2.01	GRD	CG	Zone of strong chloritic alteration with local hematite alteration along fracture surfaces.							
									HEM	1I		
202.52	206.07	3.55	GRD	CG	Strong clay alteration that is white to locally light blue as well as medium green stained from chloritic alteration. Moderate potassic alteration as well as local moderate hematite alteration.							
206.07	207.00	0.93	GRD	CG	Zone of dark green chloritic alteration with moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
207.00	209.55	2.55	GRD	CG	Zone of strong yellow/ green clay alteration. There is also a local zone of strong white clay alteration and at the bottom of this interval has patchy strong hematite. There is local quartz veining in this zone at 207.375 - 207.38 m, 209.10 - 209.41 m and 209.0 - 209.08 m. The last two are irregular zones of quartz with branching. The first quartz veinlet is 4 mm wide and has light grey to white quartz with blebby galena - trace. The second one has dark grey to light grey quartz with blebby sphalerite, pyrite and galena. The third is white with dark grey quartz with trace pyrite, galena and sphalerite.							
											Sp	0.1
											Py	0.1
											Gn	0.1
209.55	213.43	3.88	GRD	CG	Zone of strong clay alteration that is white to light blue as well as local light green/ yellow alteration with strong potassic alteration. There is also dark green chloritic alteration locally staining.							
213.43	219.06	5.63	GRD	CG	Zone of less altered granodiorite with modertate to strong potassic alteration as well as blebby chloritic alteration. Around quartz stringers there is light yellow / green clay alteration.							
219.06	219.32	0.26	GRD	CG	Zone of strong yellow/ green clay alteration (alteration halo around quartz vein).							
219.32	219.39	0.07	VEN	FG	Quartz / sulphide vein. White, light grey to dark grey quartz with blebby sphalerite, pyrite and galena.							
											Sp	3
											Py	0.5
											Gn	0.1
219.39	219.65	0.26	GRD	CG	Zone of strong yellow/ green clay alteration (alteration halo around quartz vein).							
219.65	220.46	0.81	GRD	CG	Zone of less altered granodiorite except for the light green chloritic staining. At the lower half of the interval it is strongly clay altered - white. Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
220.46	220.80	0.34	GRD	CG	Zone of strong green / yellow clay alteration with a quartz / sulphide / carbonate vein in the middle of the interval at 220.61 - 220.65 m. The quartz is light to dark grey with white strong carbonate alteration coming in along the vein selvage. There is blebby galena, sphalerite and pyrite. The galena is occurring in the middle of the vein. The sphalerite and pyrite is occurring near the vein.							
											Gn	1.5
											Sp	0.5
											Py	0.1
220.80	221.78	0.98	GRD	CG	A mixed zone of strong chlorite as well as light yellow / green clay alteration with a quartz / sulphide vein at 221.25 - 221.28 m. The quartz vein is light grey to white with blebby galena, sphalerite and pyrite.							
											Sp	1
											Gn	1
											Py	0.5
221.78	225.63	3.85	GRD	CG	A mixed zone of alteration. Predominantly more fresh granodiorite that is weakly chloritic as well as weakly to moderately potassic alteration (light pink). Around quartz veining we see haloing that is medium green to light yellow clay alteration as well as dark green chloritic alteration. There is a minor section of strong clay alteration that is white to medium blue.							
225.63	225.86	0.23	QFP	FG	Small QFP dyke? Or brecciated zone? The matrix is fine grained and light to medium grey with some clay altered phenocrysts as well as light grey glassy phenocrysts. Sharp upper and lower contacts. There is also a wall rock chunk in this zone that is strongly clay altered granodiorite.							
						MD	GY					
						LT	GY	PO	CLY	2I		
225.86	226.85	0.99	GRD	CG	Zone of blebby strong chloritic alteration. Weakly gradational contact.							
226.85	231.02	4.17	GRD	CG	Zone of less altered granodiorite with blebby chlorite and moderate to locally strong potassic alteration (light pink). Sharp lower contact.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
231.02	232.57	1.55	GRD	CG	Mixed zone of alteration that has local strong light yellow/ green clay alteration as well as dark green chloritic alteration with moderate potassic. There is a quartz / sulphide / carbonate veinlet near the top of the interval at 231.09 - 231.10 m. The vein has buff colored carbonate alteration at the lower contact of the veinlet. There is also blebby pyrite, galena and sphalerite in the veinlet - trace.							
											Py	0.1
											Gn	0.1
											Sp	0.1
232.57	234.25	1.68	GRD	CG	Zone of less altered granodiorite with weak chloritic alteration and moderate potassic alteration. Sharp lower contact.							
234.25	237.61	3.36	GRD	CG	Zone of strong light yellow / green clay alteration with quartz veining throughout this interval - 6 different veins. A few of them are quartz sulphide veins and the rest appear to be small dykes or veins? They are light grey with a fine grained matrix and with white phenocrysts with white carbonate alteration along the vein selvages. There is blebby pyrite, sphalerite and galena in the quartz veining.							
											Sp	0.1
											Py	0.1
											Gn	0.1
237.61	238.12	0.51	VEN	FG	Dark grey to light grey to white quartz that is irregular in shape. There is white carboante occurring along the vein selvages. There is blebby pyrite, sphalerite and galena.							
											Gn	0.1
											Py	1.5
											Sp	3
238.12	239.80	1.68	GRD	CG	Zone of strong clay alteration that is light green to yellow. There is also a local zone of dark green chloritic alteration. There is a quartz/ sulphide veinlet at 238.65 - 238.66 m that has blebby sphalerite and galena as well as fine grained pyrite.							
						LT	GN	PH	CLY	4I	Sp	0.1
						LT	YW		CHL	1I	Gn	0.1
						DK	GN				Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
239.80	241.47	1.67	BXA	CG	Breccia zone hosted in altered granodiorite. There is a quartz / sulphide vein at 240.73 - 240.80 m. That is light grey to dark grey to white quartz with blebby pyrite, galena and sphalerite. After 241.08 m we see a change from the clay alteration to dark green chloritic alteration.							
						LT	WH					
						LT	GN				Py	0.1
						LT	YW				Gn	0.1
						DK	GN				Sp	0.1
241.47	244.36	2.89	GRD	CG	Zone of less alteration with blebby chloritic alteration as well as moderate potassic alteration. There is dark green chloritic alteration coming in along fracture surfaces. Sharp lower contact. There is also a local pervasive bleb of chlorite - 242.35 - 242.46 m.							
244.36	245.37	1.01	GRD	CG	Zone of strong light yellow / green clay alteration as well as patchy dark green chloritic alteration. There is a quartz / sulphide veinlet in this interval with pyrite, galena and sphalerite.							
											Py	0.1
											Gn	0.1
											Sp	0.1
245.37	259.95	14.58	GRD	CG	Zone of less altered granodiorite that has moderate potassic alteration as well as blebby chlorite. There is also local strong chloritic alteration occurring.							
259.95	265.57	5.62	GRD	CG	Zone of strong clay alteration that is light green to yellow in color as well as white to light blue. There is also moderate potassic alteration. Locally there is dark green chloritic alteration with moderate potassic alteration. There is local quartz / sulphide veinlets at 260.54 - 260.65 m.							
265.57	266.90	1.33	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteraiton as well as moderate to strong potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
266.90	269.74	2.84	GRD	CG	Zone of strong clay alteration that is light blue in color there is also moderate potassic alteration. At the lower contact there is dark green chloritic alteration (strong) with patchy hematite - 269.24 m.							
269.74	271.44	1.70	GRD	CG	Small fault zone that is rubbled up with a large competent section that is 0.40 cm wide. In this competent section of core there is a shallowly dipping quartz vein that is white with open space cavities that are infilled with re-crystallized quartz. This zone has moderate clay alteration with moderate chloritic alteration. There is local chlorite along fracture surfaces as well as patchy hematite.							
						MD	GN		CHL	3I		
						LT	GN	PH	CLY	3I		
						LT	GY					
271.44	275.62	4.18	GRD	CG	Altered granodiorite that has strong patchy dark green chloritic alteration as well as strong patchy hematite alteration. At the lower contact we strong light yellow to green clay alteration.							
						MD	GN		HEM	4I		
						LT	GY					
						DK	GN	PH	CHL	4I		
						DK	PU					
						DK	RD					
275.62	276.02	0.40	BXA	CG	Altered granodiorie that is brecciated with gouge occurring along the fracturing.							
						LT	GY					
						LT	GN		CHL	1I		
						DK	GN					
276.02	276.96	0.94	VEN	CG	Altered granodiorite with a grey fine grained cherty looking quartz vein running throughout this interval. There are also quartz / sulphide veinlets that are cross cutting the grey quartz with blebby pyrite and sphalerite.							
						MD	GY					
						LT	GN	PH	CLY	4I	Py	0.1
						LT	WH				Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
276.96	277.16	0.20	VEN	FG	Irregular quartz vein that is light grey to white quartz with white carbonate along the vein selvages. There is also blebby pyrite, galena as well as spalerite. There is also open space cavities infilled with barite. Strong sphalerite in this vein that is infilling most of the vein - black jack as well as local dark brown sphalerite.							
						LT	BF				Py	0.5
						LT	GY				Gn	0.5
						LT	WH				Sp	5
						DK	BL					
277.16	278.19	1.03	GRD	CG	Zone of strong light yellow / green clay alteration. There is a quartz / sulphide vein near the start of this interval. Quartz is light grey to white with blebby black sphalerite with lesser pyrite and galena.							
											Sp	5
											Py	0.5
											Gn	0.5
278.19	282.52	4.33	GRD	CG	A zone of mixed moderate to strong chloritic alteration with moderate to strong potassic alteration but with the more regular granodiorite texture. There are also zones of strong chloritic alteration around quartz veining. There is also a zone of pervasive fine grained chloritic alteration at 279.32 - 279.53 m.							
282.52	285.38	2.86	GRD	CG	Zone of moderate to strong chloritic alteration with local light yellow/ green clay alteration occurring around quartz veining.							
285.38	285.71	0.33	GRD	CG	Zone of blebby chloritic alteration with moderate potassic alteration. More fresh granodiorite.							
285.71	288.25	2.54	GRD	CG	Zone of moderate to strong chloritic alteration. There is quartz veining throughout this interval. The lower contact is sharp.							
288.25	288.68	0.43	GRD	CG	Zone of moderate chloritic and potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
288.68	291.09	2.41	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration coming in halfway through the interval. There is patchy light yellow to light green clay alteration around quartz veining.							
291.09	292.12	1.03	GRD	CG	Zone of more fresh granodiorite with blebby chloritic alteration as well as moderate potassic.							
292.12	293.42	1.30	GRD	CG	Zone of strong dark green chloritic alteration with moderate potassic with local light green / yellow clay alteration along quartz veining. There is also light blue clay alteration in rubbled zone - 292.80 - 292.95 m. Sharp lower contact.							
293.42	294.59	1.17	GRD	CG	Zone of strong clay alteration that is white to light blue in color with moderate potassic alteration. There is local dark green patchy chloritic alteration. There is also zones of strong pervasive hematite alteration coming in along bands at the lower contact.							
294.59	295.24	0.65	GRD	CG	Zone of strong light green alteration to yellow with rubble in the middle of the interval. There is a quartz veinlet running down the core axis with blebby tourmaline as well as pyrite.							
295.24	295.65	0.41	GRD	FG	Irregular quartz vein hosted in altered granodiorite. Quartz is light grey to white with buff colored carbonate alteration along the vein selvages. The vein has blebby galena and pyrite.							
											Gn	2
											Py	0.5
295.65	297.70	2.05	GRD	CG	Zone of strong medium green to light yellow alteration clay alteration with quartz white quartz veining.							
297.70	299.39	1.69	GRD	CG	Zone of dark green chloritic alteration with moderate potassic alteration. There is fracturing that is running down the core axis that has chloritic alteration along the fracture.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
299.39	302.03	2.64	GRD	CG	Fault zone hosted in altered granodiorite. There is rubble with minor gouge as well as some competent core. Rubble - 40%, Gouge - 30% and competent core - 30%. In this granodiorite we see blebby chloritic alteration as well as moderate potassic alteration. There is local blebby pyrite occurring along fracture surfaces.							
						LT	GN	PH	CHL	2I	Py	0.1
						LT	PK		POT	2I		
						LT	WH		CLY	2I		
302.03	306.35	4.32	GRD	CG	Zone of strong clay alteration that is white to light blue locally with moderate to strong potassic alteration (light pink). There is also blebby chloritic alteration. Sharp lower contact.							
306.35	310.05	3.70	GRD	CG	Zone of strong yellow / green clay alteration. There are multiply quartz veins in throughout this interval. In the veins there is pyrite, sphalerite and galena. There is also 4 fine grained apalite dykes? Occurring in this interbla that are medium brown / green in color. Gradational lower contact with light blue to white clay alteration with moderate potassic alteration. There is also minor gouge occurring in this interval that is 4 cm wide.							
310.05	312.75	2.70	GRD	CG	Zone of more fresh granodiorite that has moderate to strong potassic alteration with weak chloritic staining. There is a local zone of strong clay alteration that is light yellow to green and pervasive - 311.46 to 312.0 m. In this interval there is a quartz veinlet with sulphides and another quartz/ sericite vein. There is blebby pyrite as well as black blebby tourmaline? The lower contact is gradational and we start seeing weak to moderate clay alteration coming in.							
312.75	317.07	4.32	GRD	CG	Zone of strong clay alteration that is varying in color - light green to light yellow, as well as white and light blue. In the zones of white to light blue clay alteration we see moderate potassic alteration but not in the yellow/ green clay alteration. There is local hematite staining as well as patchy medium green chloritic alteration. The lower contact is sharp.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
317.07	317.56	0.49	GRD	CG	Zone of less altered granodiorite with moderate potassic alteration with weak chloritic alteration.							
317.56	318.97	1.41	GRD	CG	Zone of strong clay alteration that is light blue to white with moderate potassic alteration. There is local zones of dark green chloritic alteration as well there is patcy hematite alteration.							
318.97	321.12	2.15	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There is several quartz veinlets in this interval that locally have sulphides - blebby pyrite, galena as well as sphalerite.							
											Py	0.1
											Gn	0.1
											Sp	0.1
321.12	322.16	1.04	VEN	CG	A mixed zone with altered granodiorite that is strongly clay altered light yellow to green as well as local quartz veining or silica flooding coming in along fracture surfaces. There is also local brecciation at 321.23 - 321.48 m							
						MD	GY					
						LT	GY					
						LT	GN		SIL	3I		
						LT	YW		CLY	3I		
322.16	322.67	0.51	BXA	CG	Small zone of breccia with gouge along fracture surfaces.							
						LT	GN					
						LT	GY					
322.67	335.48	12.81	GRD	CG	A mixed zone of altered granodiorite with strong clay alteration that is light green to yellow / grey pervasively. There is also blebby patchy dark green chloritic alteration. In the chloritic zones we see light pink/ salmon colored potassic alteration. There is white quartz veining occurring at the top of the interval and then as we go down interval there is a local zone of cherty medium grey quartz veining at 328.40 - 330.0 m. At the end of the interval we see a change to white to light blue clay alteration with moderate potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CLY	5I	Py	0.1
						LT	YW		CHL	2I	Sp	0.1
						LT	PK					
						LT	GY					
						DK	GN		POT	2I		
335.48	336.47	0.99	GRD	CG	Small fault hosted in altered granodiorite. This fault is mostly made up of sand sized grains of granodiorite. There is also local rubble as well as minor competent core. There is dark green chloritic alteration with moderate light pink potassic alteration. Sand sized grains - 75%; Rubble - 15%; and competent core - 10%.							
						MD	PK		POT	3I		
						LT	WH					
						DK	GN	PH	CHL	3I		
336.47	339.38	2.91	GRD	CG	Zone of less altered granodiorite with moderate potassic alteration with disseminated black biotite. At the end of this interval there is a small sand sized section of granodiorite - 3 cm wide. There is light green/ blue clay alteration occurring as halos around quartz / carbonate stringers to veinlets.							
339.38	340.39	1.01	GRD	CG	Zone of strong clay alteration that starts as light blue and then grades into light yellow/green. There is moderate potassic alteration in the light blue clay alteration and dissapears in the stronger light green / yellow altered zones. Gradational lower contact.							
340.39	342.03	1.64	GRD	CG	Zone of more fresh granodiorite that has moderate potassic alteration. It has a gradational contact with weak chloritic alteration.							
342.03	342.90	0.87	GRD	CG	Zone of strong clay alteration that is medium green at the upper and lower contacts and grades into a light yellow/ green coloration. There is moderate potassic alteration throughout this interval and there is quartz veining in the middle of this interval occurring as stringers with blebby sulphides.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
342.90	345.20	2.30	GRD	CG	Zone of more fresh granodiorite with moderate potassic alteration. There is a gradational lower contact that has strong light blue clay alteration.							
345.20	348.14	2.94	GRD	CG	Zone of pervasive clay alteration that is light green to pale yellow in color. At the upper contact we see dark green blebby chloritic alteration. There are also quartz veinlets9 with blebby pyrite, sphalerite and galena.							
											Sp	0.1
											Py	0.1
											Gn	0.1
348.14	351.75	3.61	GRD	CG	Mixed zone of alterations - with more fresh granodiorite with moderate potassic alteration as well local zones of light green to yellow clay alteration - usually around quartz veins. There is also weak to moderate potassic alteration in the light yellow / green clay alteration. Gradational lower contact.							
351.75	354.62	2.87	GRD	CG	Zone of strong clay alteration that is light yellow to green as well as local zones of green/ blue with moderate potassic alteration. Sharp lower contact. There are local quartz veins in this interval with sulphides. Blebby pyrite, sphlerite as well as galena. Small gouge zone in the middle of this interval - 3 cm wide.							
											Sp	0.1
											Gn	0.1
											Py	0.1
354.62	356.37	1.75	GRD	CG	Zone of more fresh un-altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. At the lower contact we see more strong chloritic alteration.							
356.37	358.58	2.21	GRD	CG	Zone of strong clay alteration that is light green to light yellow in color. There are local quartz/ sulphide veins in this interval - blebby pyrite and sphalerite.							
											Py	0.1
											Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
358.58	363.03	4.45	GRD	CG	Zone of more fresh granodiorite with weak potassic alteration and weak blebby chloritic alteration. Sharp lower contact. Around quartz veining there is light green/ yellow clay alteration. In this interval there is also fine grained xenolith that is dark green in coloration.							
363.03	363.78	0.75	GRD	CG	Zone of strong yellow/ green clay alteration. At the lower contact there is dark green chloritic alteration as well as a zone of white clay alteration with moderate potassic alteration.							
363.78	365.76	1.98	GRD	CG	Zone of more fresh, un-altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Around quartz veins there are light yellow / green clay alteration.							
365.76	367.83	2.07	GRD	CG	Fault hosted in more fresh granodiorite. There is weak to moderate potassic alteration. As well there is moderate calcite along fracture surfaces in this interval. Competent core - 65%, Rubble - 20% and gouge - 15%.							
						LT	PK	PH	POT	2I		
						LT	GY					
						LT	WH					
						DK	BL		CHL	2I		
						DK	GN					
367.83	372.78	4.95	GRD	CG	Zone of more fresh granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration.							
372.78	373.31	0.53	FLT	CG	Weak fault zone with weak rubble and calcite coming along the fracture surfaces.							
373.31	383.72	10.41	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Locally there is hematite along fracture surface as well we see calcite.							
383.72	384.33	0.61	GRD	CG	Zone of strong yellow / green clay alteration with local bands of dark green chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
384.33	385.21	0.88	GRD	CG	Zone of less altered granodiorite with blebby chlorite as well as weak potassic alteration. There is strong chloritic alteration at the upper contact. There is also hematite and epidote coming in along fracture surfaces.							
385.21	385.40	0.19	GRD	CG	Zone of strong light yellow / green alteration.							
385.40	388.95	3.55	GRD	CG	Zone of less altered granodiorite except for blebby chloritic alteration and weak to moderate potassic alteration. Epidote coming in along fracture surfaces.							
388.95	391.17	2.22	GRD	CG	A mixed zone of alteration with moderate fracturing with hematite coming in along them. There is also dark green chloritic alteration that is blebby as well as local light blue to white clay alteration.							
391.17	393.86	2.69	GRD	CG	A mixed zone of alteration with more fresh granodiorite and then dark green chloritic that is staining the core. There is epidote coming in along fracture surfaces.							
393.86	395.24	1.38	GRD	CG	A zone of dark green chloritic alteration with light green to yellow clay alteration coming in as halos to quartz veins.							
395.24	396.76	1.52	GRD	CG	A zone of less altered granodiorite with weak blebby chloritic alteration as well as weak to moderate potassic alteration. As we go down interval and get closer to the end of the interval there is stronger chloritic alteration.							
396.76	398.39	1.63	GRD	CG	Zone of stronger patchy pervasive hematite staining with patchy white clay alteration occurring in the less hematized areas.							
398.39	399.05	0.66	GRD	CG	A mixed zone of alterations with local strong white clay alteration to light blue with moderate potassic alteration there is also dark green chloritic alteration in the less clay altered zones.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
399.05	400.34	1.29	GRD	CG	A mixed zone of more fresh granodiorite with moderate chloritic staining to a zone with strong chloritic alteration. At the end of the interval there is hematite staining along fracture surfaces.							
400.34	402.98	2.64	GRD	CG	A mixed zone of dark green chloritic alteration as well as patchy pervasive hematite alteration. At The start of the interval there is a fracture running sub-parallel tca and some minor rubble. Near the end of the interval there is a section of light green clay alteration.							
402.98	429.38	26.40	GRD	CG	Fault hosted in altered granodiorite. The granodiorite is predominantly chlorite altered as well as patchy hematite staining. This fault zone is locally brecciated as well it has gouge and rubble. Local slicken lines - rake - 60 degrees tca. Rubble - 40%, Breccia/ gouge - 30%, and Competent core - 30%. At the lower end of the contact there is a sulphide vein that is pyrite / sphalerite.							
						LT	GN	PH	HEM	2I	Py	0.1
						LT	BL		CHL	3I	Sp	0.1
						LT	WH					
						DK	PU					
						DK	GN					
429.38	431.96	2.58	GRD	CG	Zone of less altered granodiorite in which we see blebby chloritic alteration as well as moderate potassic alteration. We see weak clay alteration coming in along the fracture surfaces as well as calcite.							
431.96	432.54	0.58	GRD	CG	Zone of strong clay alteration that is white to light blue in color with moderate potassic alteration. At the lower contact we see a small zone of dark green chloritic alteration. There is also a dyke? / vein? That is running sub parallel tca in this interval that is salmon pink in color with quartz phenocrysts in it.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
432.54	436.62	4.08	GRD	CG	Zone of less altered granodiorite with weak blebby chloritic alteration as well as weak to moderate potassic alteration. The dyke?/ vein? Alteration? That was in the previous interval is continued in this interval running sub parallel tca. There is one quartz vein in this interval at 434.01 - 434.03 m - that has white to light grey quartz and has local blebby pyrite at the selvage. This vein is discontinuous.							
											Py	0.1
436.62	439.35	2.73	GRD	CG	Zone of strong clay alteration that alternates between white to light blue clay to light yellow / green. In the white to light blue clay zones we also see moderate light pink potassic alteration. Locally in these zones we also see patchy chloritic alteration. At the end of the interval as well as at 438.19 - 438.65 m we see strong chloritic alteration associated with patchy hematite coming in along the fracture surfaces. We also have a a few quartz/ carboante stringers to veinlets in this interval.							
439.35	440.44	1.09	GRD	CG	Sheared interval that is sub parallel tca. At the upper and lower contacts we see altered granodiorite on one half of the core and brecciated/ gougy on the other half. In the middle of the interval it is strongly brecciated.							
440.44	442.27	1.83	GRD	CG	In this zone we see strong chloritic alteration as well as moderate patchy hematite alteration coming in along fracture surfaces. There is also local epidote associated with the hematite.							
442.27	444.00	1.73	GRD	CG	Zone of strong clay alteration that is light green in color. There is quartz stringers and veinlets in this interval. There is also disseminated medium grained pyrite occurring near these veins.							
444.00	445.42	1.42	GRD	CG	Mixed zone of atleration with blebby chloritic alteration as well as patchy light green clay alteration. There is also patchy potassic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
445.42	456.61	11.19	GRD	CG	Zone of predominantly fresh granodiorite but there is also local zones of strong light green / yellow clay alteration. The fresh granodiorite has weak to moderate potassic alteration (light pink to salmon colored). There is disseminated black biotite. Locally there is also white to light blue clay alteration. In this interval there are multiple quartz veins with mineralization - pyrite predominantly but also local galena.							
											Gn	0.1
											Py	0.1
456.61	458.72	2.11	GRD	CG	Zone of strong yellow / green clay alteration. There are local patches of chloritic alteration with moderate potassic alteration. In this interval there are quartz veining with mineralization.							
											Py	0.1
458.72	460.25	1.53	GRD	CG	Mixed zone of alteration with more fresh granodiorite with blebby chloritic alteration as well as weak potassic alteration. At the lower contact there is strong white clay alteration with moderate potassic alteration.							
460.25	477.14	16.89	QFP	FG	QFP dyke that is light green / buff in color to dark brown in color with local with patchy red / brown. The phenocrysts in this interval are clay altered and white to light/ medium green. There are also glassy grey phenocrysts as well. There are white quartz veining occurring throughout this interval (not mineralized). Sharp upper and lower contact with granodiorite. At both contacts the granodiorite is un-altered.							
						MD	GN					
						LT	GN	PO	CLY	2I		
						LT	BF					
						DK	BN					
						DK	RD					
477.14	478.37	1.23	GRD	CG	Zone of strong clay atleration that is white to light blue in color there is also local light green / yellow at the lower contact. There is weak potassic alteration. There are local quartz and carbonate veinlets to stringers occurring throughout this interval. At 477.77 - 477.78 there is a quartz veinlet that is white to dark grey banding intermingled.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
478.37	479.70	1.33	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. At the lower contact there is some light green staining. There are white quartz / carbonate stringers throughout this interval. There is pyrite stringers in this interval as well as some local disseminated pyrite.							
											Py	0.1
479.70	480.15	0.45	GRD	CG	Zone of strong clay alteration that is light green / yellow there is also local dark green chloritic alteration. There is weak potassic alteration in this interval as well. The lower contact is sharp. At 479.86 - 479.92 m there is a quartz/ sulphide/ carbonate vein that is white to light grey to dark grey and has a banded appearance. In this vein there is fine grained pyrite as well as sphalerite.							
											Py	0.1
											Sp	0.1
480.15	487.62	7.47	GRD	CG	Zone of fresh less altered granodiorite with blebby chloritic alterationas well as weak to moderate potassic alteration. There is local patchy epidote occurring in this interval as well. There are a couple zone of weaker light green/ yellow clay alteration around quartz veining at 480.75 - 480.96, 484.55 - 484.69 m, and 485.16 - 485.57 m. In this interval there are several quartz / sulphide vein with pyrite. At 485.24 - 485.245 m there is a quartz / sulphide veinlet that is white to light grey quartz with blebby pyrite.							
											Py	0.5
487.62	487.82	0.20	GRD	CG	This is a zone of strong light green to yellow clay alteration occurring before a quartz / sulphide vein. Right before the quartz vein there is dark green chloritic alteration as well. There is disseminated pyrite before the vein.							
											Py	1
487.82	487.93	0.11	VEN	FG	Quartz / sulphide vein. There is white to light grey quartz with large blebby sphalerite, pyrite and chalcopyrite. The sphalerite is occurring in a large band and is locally associated with pyrite and chalcopyrite.							
						LT	WH				Sp	4

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY				Py	3
											Ch	0.1
487.93	488.13	0.20	GRD	CG	Alteration halo of a quartz / sulphide vein with strong light yellow / green clay alteration. There is local chloritic alteration in this interval as well. There is a pyrite stringer near the end of the interval. Sharp lower contact.							
											Py	0.3
488.13	488.51	0.38	GRD	CG	Zone of more fresh granodiorite with only patchy blebby weak chloritic alteration as well as moderate potassic alteration.							
488.51	489.28	0.77	GRD	CG	A mixed zone of alteration with more fresh granodiorite with blebby chloritic alteration as well as weak potassic alteration. There is also strong clay alteration that is light yellow / green in color. In the clay altered zone there is quartz veining with pyrite.							
											Py	0.1
489.28	489.83	0.55	GRD	CG	A mixed zone of clay alteration that is white to light blue to light green / yellow in color. There is moderate potassic alteration in the light blue to white clay alteration.							
489.83	490.32	0.49	GRD	CG	A zone of less atlered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact.							
490.32	491.37	1.05	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There are a few quartz / sulphide veins in this interval. At 490.58 - 490.66 m there is a zone of 3 quartz veinlets with pyrite and sphalerite							
491.37	491.88	0.51	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration and potassic alteration.							
491.88	492.27	0.39	GRD	CG	Zone of strong light yellow / green clay alteration. There is a local patch of fresh less altered granodiorite in this interval as well. At the top of the interval there is a quartz/ sulphide veinlet with pyrite.							
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
492.27	493.45	1.18	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact.							
493.45	494.63	1.18	GRD	CG	Zone of strong clay alteration that is white to light green / yellow. Locally there is dark green chloritic alteration as well as some local weak potassic alteration. There are 3 quartz / sulphide veins in this interval with pyrite and some local sphalerite.							
											Sp	0.1
											Py	0.1
494.63	498.23	3.60	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are also local zones of weak to moderate light green to yellow clay alteration.							
498.23	498.67	0.44	GRD	CG	Mixed zone of alteration but predominantly light white to blue clay ateration with moderate potassic alteration. Locally there is also dark green chloritic alteration.							
498.67	500.97	2.30	GRD	CG	Zone of strong clay alteration that light yellow to green in color. There are quartz / sulphide veins throughout this interval. At 498.81 - 498.83 m there is a quartz/ sulphide vein with pyrite. Then at 499.85 - 499.86 m there is another quartz / sulphide vein with pyrite. 500.17 - 500.21 m there is a quartz vein that is brecciated and broken up.							
500.97	503.31	2.34	GRD	CG	A mixed zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration as well as strong clay alteration that is light green to yellow in color. There are a few quartz / sulphide veinlets to stringers in this interval with pyrite and sphalerite.							
											Py	0.1
											Sp	0.1
503.31	504.02	0.71	GRD	CG	Zone of clay alteration that is light green to blue and white with moderate potassic alteration. There are a few quartz / pyrite stringers throughout this interval.							
											Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
504.02	505.43	1.41	GRD	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact. There are pyrite stringers in this interval as well as quartz veinlets.							
											Py	0.1
505.43	506.80	1.37	GRD	CG	Zone of strong clay alteration that is light green / yellow as well as white to light blue. There is moderate to strong potassic alteration. There are quartz stringers to veinlets in this interval as well as pyrite stringers in this interval.							
											Py	0.1
506.80	509.96	3.16	GRD	CG	A mixed zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration but there is also clay alteration that is white to light blue as well as light green / yellow.							
509.96	512.12	2.16	GRD	CG	Zone of strong clay alteration that is light yellow to green in color as well as locally white. There is local dark green chloritic alteration with potassic alteration. There are a few quartz / sulphide veins in this interval with pyrite, sphalerite and galena.							
											Py	0.1
											Sp	0.1
											Gn	0.1
512.12	514.13	2.01	GRD	CG	A mixed zone of alteration with less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There is also strong clay alteration that is light yellow to green in color as well as a local zone of strong chloritic dark green alteration.							
514.13	515.70	1.57	GRD	CG	Zone of strong clay alteration that ranges from white to light blue to light green / yellow. There is also moderate potassic alteration. There are multiple quartz / pyrite stringers in this interval.							
											Py	0.1
515.70	515.80	0.10	VEN	FG	White to light grey to dark grey almost black quartz with local gouge occurring along fracture surfaces. There is cream colored carbonates occurring in this vein as well. Vein is brecciated. There is blebby fine grained pyrite that is clustered together there is also arsenopyrite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY				As	0.1
						LT	GY					
						LT	WH				Py	0.5
						DK	GY					
						DK	BK					
515.80	523.02	7.22	GRD	CG	Variable altered coarse grained granodiorite. Predominanlty we see strong clay alteration that is light yellow to green in color. There is also zones of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are quartz / carbonate stringers throughout this interval. As well there are pyrite stringers occurring in this interval. At 517.02 - 517.055 m there is a quartz / sulphide vein that hosts pyrite, arsenopyrite, sphalerite and galena.							
						MD	GN		POT	2I	Gn	0.1
						LT	GN	PH	CLY	4I	Py	0.3
						LT	PK				Sp	0.1
						LT	YW		CHL	2I	As	0.1
523.02	527.27	4.25	QFP	FG	QFP dyke with clay altered phenocrysts that range in color from white to light green. Color of dyke is light green/ tan. There are also light glassy grey phenocrysts in this interval as well. Sharp upper and lower contacts of this dyke. There are also a few quartz/ sulphide veins in this interval containing - pyrite as well as a black, dull, unknown mineral associated with the pyrite. There appears to be local brecciated sections in this interval with dark grey cherty quartz.							
						MD	GN	PO	CLY	2I	Py	0.1
						LT	TN					
						LT	GN					
527.27	528.27	1.00	GRD	CG	Altered coarse grained granodiorite that is strongly clay altered that is light green / yellow in color. At the lower contact there is disseminated pyrite. At the lower contact there is a quartz / sulphide vein. There are also pyrite stringers in this interval as well as quartz/ carbonate stringer.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	YW					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY					
528.27	528.45	0.18	VEN	FG	Quartz / sulphide vein with white to light grey quartz. There is blebby pyrite throughout this vein with some minor chalcopyrite associated with this pyrite. There is also trace galena in this vein locally associated with the other sulphides and found beside inself. Above and below this vein there is disseminated pyrite.							
						LT	WH				Py	10
						LT	GY				Cp	0.5
											Gn	0.1
528.45	529.30	0.85	FLT	CG	Small fault zone hosted in granodiorite. The granodiorite is stronly clay altered occurring as light green / yellow. In the fault we see gouge mixed in with competent core. There is disseminated pyrite occurring at the upper and lower contacts but not in the middle of the interval. Gouge - 30% and competent core - 70%.							
						LT	GY	PH	CLY	4I	Py	0.5
						LT	YW					
						LT	GN					
529.30	530.10	0.80	FLT	FG	Quartz vein zone hosted in granodiorite as well as being faulted and broken up. Quartz is white to light to medium grey quartz with blebby pyrite and minor chalcopyrite. There is also disseminated medium grained pyrite occurring in this interval. In this interval there is a mix of gouge, rubble and comptent core.							
						MD	GY					
						LT	WH				Py	5
						LT	GY				Ca	0.5
						LT	GN					
530.10	532.42	2.32	GRD	CG	Altered granodiorite that is coarse grained and predominantly strongly clay altered that ranges in color from light green to yellow. There are also patchy zones of weak to moderate medium green chloritic alteration with weak potassic alteration. At the upper contact there is disseminated pyrite there is also pyrite stringers occurring in this interval. There are a few quartz veins in this interval with mineralization. Sharp lower contact with dyke.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CLY	4I	Py	0.1
						LT	YW		CHL	1I		
						LT	GY		POT	1I		
532.42	532.92	0.50	QFP	FG	QFP dyke with clay altered phenocrysts that are light grey / green in color. There are also dark grey glassy quartz phenocrysts as well. This interval is rubbled and broken up - weakly.							
						LT	GY	PO	CLY	2I		
						LT	TN					
532.92	533.38	0.46	GRD	CG	Small slice of altered granodiorte that is coarse grained and strongly clay altered - light green to yellow. Sharp upper and lower contacts. There is disseminated pyrite occurring in this interval.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	YW					
						LT	GY					
533.38	541.09	7.71	QFP	FG	QFP dyke that is light grey / green to light green locally. The phenocrysts in this interval are clay altered and are white to light to medium green in color. We also see glassy grey quartz phenocrysts. At the lower contact we see foliated - 60 degrees tca. At the lower contact of this iterval its all broken up. There are white quartz / carbonate stringers to veinlets in this interval. At 533.96 - 534.08 m there is a small brecciated zone with dark grey quartz and parts of dyke grains mixed in. Foliated dyke starts at 540.92.							
						LT	GY	PO	CLY	2I		
						LT	GN					
						LT	WH					
541.09	542.09	1.00	GRD	CG	Zone of strong clay alteration that is light green to yellow. At the lower contact we see moderate light pink potassic alteration. There is a local bleb of galena in this lower section as well.							
											Gn	0.1
542.09	542.95	0.86	GRD	CG	Mixed zone of alteration with moderate white clay alteration as well we see moderate potassic alteration and blebby chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
542.95	543.34	0.39	GRD	CG	Zone of strong clay alteration that is light yellow to green with local medium green chloritic alteration. In this zone there are 6 small quartz stringers. One has some blebby pyrite.							
											Py	0.1
543.34	544.57	1.23	GRD	CG	Zone of fresher less altered granodiorite with moderate to strong potassic alteration as well as blebby chloritic alteration. There are local fine grained, dark xenoliths that are weakly magnetic. Locally there is a pyrite stringer.							
											Py	0.1
544.57	545.17	0.60	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There is patchy potassic alteration that is light pink.							
545.17	545.39	0.22	VEN	CG	Quartz vein zone in an altered granodiorite. There are 6 quartz veinlets to veins. There is blebby pyrite in these veins. There is also local dull black unknown mineral associated with the pyrite. The altered granodiorite is strongly clay altered that is light yellow to green.							
						MD	GY					
						LT	GN	PH	CLY	4I	Py	0.5
						LT	WH					
						LT	YW					
						DK	GY					
545.39	545.87	0.48	GRD	CG	Zone of strong clay alteration that is light green to yellow in color.							
545.87	546.38	0.51	GRD	CG	Zone of more fresh granodiorite with weak to moderate potassic alteration with blebby chloritic alteration.							
546.38	546.49	0.11	GRD	FG	Zone of xenolith? That is fine grained with larger quartz grains floating inside it. Dark black to grey in coloration. Sharp upper and lower contacts. There is no alteration around this xenolith to suggest its a dyke.							
546.49	547.37	0.88	GRD	CG	Zone of more fresh granodiorite with moderate potassic alteration as well as blebby chloritic alteration. There is local strong clay alteration that is light yellow to green in coloration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
547.37	547.63	0.26	GRD	CG	Zone of strong clay alteration that is light yellow / green in coloration.							
547.63	547.72	0.09	VEN	FG	Quartz / sulphide vein that has white to light grey to medium grey to dark grey, multigenerational. There is also cream colored carbonate alteration in this vein. In this vein we see blebby pyrite as well as sphalerite. The two are associated with one another and we see sphalerite inbeween the pyrite. Pyrite is fine to medium grained and clustered together.							
						MD	GY					
						LT	CR					
						LT	GY				Sp	2.5
						LT	WH				Py	4
						DK	GY					
547.72	559.31	11.59	GRD	CG	Zone of less altered granodiorite that has weak to moderate potassic alteration with ehd grey / green tinge with blebby chloritic alteration. There are many dark black fine grained xenoliths throughout this interval. There are multiple pyrite stringers in this interval.							
											Py	0.1
559.31	559.93	0.62	GRD	CG	Zone of strong clay alteration - in this zone its white swelling clays. There is weak potassic alteration coming in along the upper contact. There are 2 quartz veinlets occurring at the end of this interval with trace pyrite occurring along the vein selvage.							
559.93	560.81	0.88	GRD	CG	Zone of fresher granodiorite with moderate potassic alteration with a light grey/ green tinge to the core. There are a few pyrite stringers in this interval.							
											Py	0.1
560.81	563.69	2.88	GRD	CG	Zone of fresher granodiorite with moderate potassic alteration. The core is predominatly white in color.							
563.69	564.64	0.95	GRD	CG	A zone of fresher granodiorite with weak to moderate potassic alteration there is also blebby chloritic alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
564.64	567.93	3.29	GRD	CG	Zone of fresher granodiorite that is more white in color with moderate potassic alteration. There is also some chloritic alteration occurring around quartz veinlets.							
567.93	568.94	1.01	GRD	CG	Zone strong chloritic alteration with weak potassic alteration and as we go down interval the chloritic alteration becomes less.							
568.94	573.26	4.32	GRD	CG	Zone of more fresh granodiorite that is tinged light grey to white with weak to moderate potassic alteration. Local xenoliths in this interval.							
573.26	575.20	1.94	GRD	CG	Zone of fresher granodiorite with a grey/ green tinge to the core with moderate potassic alteration (medium salmon colored). Locally this interval has moderate patchy chloritic alteration.							
575.20	575.45	0.25	GRD	CG	Zone of strong clay alteration that is white to light green to yellow.							
575.45	575.53	0.08	VEN	FG	Carbonate / quartz vein that has a banded appearance of white to cream.							
575.53	575.77	0.24	GRD	CG	Zone of strong clay alteration that is white to light green / yellow.							
575.77	578.50	2.73	GRD	CG	Zone of mixed fresher granodiorite with the two different types. Both have weak to moderate potassic alteration but where they differ is that one is more grey / green and the other is white. Locally there is moderate chloritic alteration.							
578.50	579.47	0.97	GRD	CG	Zone of strong clay alteration that is light green to yellow. At the upper contact we see white clay alteration as well near the top of the contact we see potassic alteration as well as patchy hematite alteration.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
579.47	582.76	3.29	GRD	CG	A mixed zone with both fresher granodiorites with a minor zone of strong clay alteration that is light green to light yellow in coloration. The upper half of the interval has the granodiorite that is tinted light grey/ green. Then the lower half is the predominantly white granodiorite. There are large xenoliths in this interval.							
582.76	583.69	0.93	GRD	CG	This interval has moderate to strong hematite alteration that is dark salmon in color.							
583.69	593.64	9.95	GRD	CG	A zone of fresher granodiorite that is predominantly white in color with weak to moderate potassic alteration. Locally in this interval there is medium chloritic alteration around quartz/ carbonate stringers. There are also xenoliths throughout this interval.							
593.64	594.18	0.54	GRD	CG	A zone of fresher granodiorite that is predominantly white in color with weak to moderate potassic alteration. Locally in this interval there is medium chloritic alteration around quartz/ carbonate stringers. There are also xenoliths throughout this interval.							
594.18	600.87	6.69	GRD	CG	A mixed zone with both fresher granodiorites the one with the light grey/ green tinge as well as the white. There is moderate potassic alteration throughout this interval.							
600.87	601.10	0.23	GRD	CG	A zone of dark green chloritic alteration. This interval has a pyrite stringer as well as a quartz and quartz / carbonate veinlets.							
601.10	607.58	6.48	GRD	CG	A mixed zone of fresher granodiorite that is white to light green / grey in color with weak to moderate potassic alteration. There are also local zones of clay alteration that is white to light blue in coloration. In these clay altered zones we see shearing that is sub-parallel tca.							
607.58	607.94	0.36	GRD	CG	Zone of strong clay alteration that is light blue in coloration grading to a light yellow/ green as we go down interval. This is a alteration halo to the sulphide vein below.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
607.94	608.18	0.24	VEN	FG	Quartz / sulphide vein zone with 2 separate quartz veins with mineralized granodiorite seperating the two. The first is at 607.94 - 607.965 cm and is a multi-generational brecciated vein with white to light grey to dark grey quartz with cream colored carbonate alteration. There is blebby coarse grained sphalerite as well as fine to medium granined pyrite. The vein is irregular with pinching and swelling vein walls. The mineralization is occurring separate from one another. From 607.965 - 608.03 m we have a coarse grained granodiorite with light to medium green clay alteration. There is medium to coarse grained disseminated pyrite in this interval with up to 2.5% pyrite. 608.03 - 608.18 m is the other quartz / sulphide vein. From 608.03 - 608.155 m is massive sulphide - made up of pyrite, sphalerite, minor chalcopyrite as well as galena. The pyrite and the sphalerite are occurring in bands. There is a pyrite band at the start and the end of this interval with sphalerite sandwhiched inbetween. The spahlerite is 2.5 cm wide. The chalcopyrite as well as the galena is occurring in the pyrite bands. Pyrite in this interval up to 70%, sphalerite - 28%, Chalcopyrite - 2% and trace galena. At the end of this interval there is light grey to white quartz with blebby pyrite occurring disseminated in this section.							
						LT	WH				Py	30
						LT	GN				Gn	0.1
						LT	GY				Sp	10
						DK	GY				Cp	1
608.18	608.96	0.78	GRD	CG	Altered coarse grained granodiorite. Strongly clay altered with with white to medium green coloration. In the lower half of the interval we see a undulating pyrite stringer to veinlet. At the lower contact there is also a quartz/ sphalerite veinlet with blebby sphalerite in the quartz.							
						MD	GN				Sp	0.1
						LT	WH	PH	CLY	4I	Py	2
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
608.96	609.19	0.23	BXA	FG	Brecciated section of qfp dyke with quartz/ carbonate veins to veinlets running throughout this section. There is local blebby pyrite occurring along a vein selvage that is occurring at the start of this interval - 2 cm wide.							
											Py	0.1
609.19	609.39	0.20	VEN	FG	Brecciated section with quartz veining as well as dyke clasts mixed in. Quartz is light grey to medium grey to dark grey with some minor medium grained pyrite.							
											Py	0.3
609.39	610.11	0.72	QFP	FG	Section of qfp dyke that has smaller amounts of phenocrysts - 5%. In this interval there are disseminated quartz / carbonate veinlets.							
610.11	613.97	3.86	QFP	FG	Zone of QFP dyke with abundant phenocrysts - up to 40%.							
											Py	0.1
613.97	614.83	0.86	QFP	FG	Zone of qfp dyke that is very similar to the upper contact were there is a significant decrease in phenocrysts. There are also pyrite stringers in this interval at the lower contact.							
											Py	0.1
614.83	615.08	0.25	BXA	FG	Brecciated multi-generational quartz vein. The vein is predominantly shades of grey but as well there is white. Sharp upper and lower contacts. In this vein there is blebby pyrite as well as sphalerite occurring together. In this vein there are open space cavities that are ranging in size from 1 mm up to 1 cm wide.							
						MD	GY				Sp	0.5
						LT	GY	BX			Py	0.5
						LT	WH					
						DK	GY					
615.08	615.16	0.08	GRD	CG	Granodiorite that is altered and coarse grained. There is moderate medium green clay atleration. There is disseminated pyrite in this interval that is medium to coarse grained.							
						MD	GN					
						LT	GY	PH	CLY	2I	Py	1
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
615.16	615.31	0.15	VEN	FG	Quartz / sulphide vein. Quartz is white to light grey. The main concentration of sulphides is 10 cm wide and situated roughly in the middle of the vein but closer to the upper contact than the lower contact. There is blebby to massive pyrite, spahlerite as well as minor chalcopyrite and trace galena. The pyrite and spalerite occur in bands. The pyrite is is occurring at the upper and lower contacts with sphalerite in the middle. Chalcopyrite occurs with the pyrite while the galena is situated with the sphalerite.							
						LT	WH				Sp	5
						LT	GY				Py	10
											Cp	3
											Gn	0.1
615.31	615.46	0.15	GRD	CG	Altered, coarse grained granodiorite. There is moderate clay alteration in this interval that is medium green to light green in color. In this interval we see blebby pyrite occurring in veinlets as well as disseminated.							
						MD	GN					
						LT	GY	PH	CLY	2I	Py	2
615.46	615.53	0.07	VEN	FG	White to light grey quartz / pyrite vein. In the middle of the vein we see blebby pyrite up to 7%.							
											Py	7
615.53	615.77	0.24	GRD	CG	Zone of strong clay alteration that is light yellow to green in coloration. Part of the quartz/ sulphide halo.							
615.77	620.86	5.09	GRD	CG	Zone of fresher granodiorite with blebby chloritic alteration as well as moderate potassic alteration. Locally there is some clay alteration that halos quartz/ carbonate / sulphide stringers to veinlets.							
620.86	624.32	3.46	GRD	CG	Mixed zone of alteration. Predominantly it is strong clay alteration that is light yellow / green in color but at the upper contact and in the middle there is also white to light blue clay alteration. In this zone of light blue to white clay alteration we also see moderate light pink potassic alteration. Locally there is also some dark green patchy chloritic alteration. There is a quartz vein at 621.20 - 621.24 m.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
624.32	627.68	3.36	GRD	FG	Zone of strong clay alteration that is light green / yellow there is also a fine grained apalite dyke? That is shallowly dipping and running down along core axis. Apalite dyke is light brown to tan in color with patchy red/ brown hematite alteration. This interval is locally rubbled and broken. There are also minor local brecciated zones.							
627.68	628.63	0.95	GRD	CG	Zone of strong clay alteration that is medium green in color (chloritic alteration?).							
628.63	632.06	3.43	GRD	CG	Mixed zone of alterations with a mix of clay and chloritic alteration occurring at the upper part of the interval with weak to moderate potassic alteration. Locally we see strong chloritic alteration coming in along fracture surfaces locally. We have patchy fresher granodiorite occurring in this interval as well with blebby chloritic alteration as well as moderate potassic alteration. We also see local zones of both white to light blue clay alteration as well as the light yellow to green coloration. There is pyrite occurring in local blebs as well as local stringers.							
											Py	0.1
632.06	637.40	5.34	GRD	CG	Zone of strong clay alteration that is light green to yellow in coloration we also see patchy dark green chloritic alteration as well as patchy hematite alteration. There is blebby pyrite occurring in quartz veinlets in this interval. Locally there is quartz veinlets with minor pyrite.							
637.40	643.41	6.01	GRD	CG	Zone of strong clay alteration that is light green to yellow but there is also zones of strong chloritic alteration. In this interval there are 3 quartz / sulphide veins with pyrite, sphalerite as well as a local veinlet with chalcopyrite. This interval is rubbled at the lower contact.							
643.41	644.00	0.59	VOL	FG	Rubbled zone							
644.00	645.21	1.21	VOL	FG	Same as general lithology							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
645.21	645.29	0.08	VEN	FG	Quartz / carbonate vein that is white and irregular in shape. There is a open space cavity in this vein.							
645.29	647.22	1.93	VOL	FG	Same as general lithology							
647.22	647.41	0.19	VEN	FG	Discontinuous quartz / carbonate vein that is irregular in space with many branches that are cross cutting the volocanics. Occurring at the lower contact there is honey brown sphalerite as well as pyrite.							
											Py	0.3
											Sp	0.5
647.41	648.20	0.79	VOL	FG	Same as general lithology.							
648.20	649.93	1.73	QFP	FG	Tan / grey QFP dyke with glassy grey quartz phenocryst as well as clay / carbonate altered white phenocrysts. Locally there is quartz veining cross cutting the dyke that is locally cherty looking.							
						MD	GY					
						LT	TN	PO	CLY	2I		
						LT	GY					
649.93	650.17	0.24	GRD	CG	Small slice of granodiorite in between the same QFP dyke. There is strong medium to dark green chloritic alteration. At the lower contact there is a 4 cm wide quartz vein that is glassy grey.							
						MD	GN	PH	CLY	2I		
						LT	GY					
						LT	WH		CHL	2I		
650.17	650.34	0.17	QFP	FG	Small slice of QFP dyke with a irregular lower contact with the volcanics or different dyke? That is very similar to the above volcanics. The volcanics are coming in at a very low angle tca forming a "U" shape that is sideways.							
650.34	651.07	0.73	VOL	FG	Small slice of volcanics very similar to above or a potential another dyke coming in. Light to medium grey / brown and fine grained. Throughout this interval there are carbonate stringers running throughout this interval. The lower contact is irregular and wavy like in nature. There is one pyrite / quartz / carbonate veinlet near the beginning of this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						MD	BN					
						LT	GY					
						LT	BN					
651.07	651.74	0.67	QFP	FG	Buff colored QFP dyke with glassy grey quartz phenocrysts. At the lower contact there is a small slice of granodiorite. 2 - 4 cm wide. White carbonate stringers in this interval.							
						LT	BF	PO			Py	0.1
651.74	652.29	0.55	GRD	CG	Zone of altered coarse grained granodiorite that is strongly clay altered light white to light green/ yellow. Lower contact appears brecciated. In this interval there are also quartz stringers to veinlets with local blebby pyrite.							
						LT	WH	PH	CLY	4I	Py	0.1
						LT	GN					
						LT	YW					
652.29	652.96	0.67	QFP	FG	Buff colored QFP dyke with glassy grey quartz phenocryts as well as white clay altered							
						LT	BF	PO	CLY	2I		
652.96	653.84	0.88	GRD	CG	Zone of strong clay alteration							
653.84	654.83	0.99	GRD	CG	Zone of moderate to strong chloritic alteration. The first half of this interval has moderate to strong potassic alteration which we lose as we go down interval.							
654.83	657.15	2.32	GRD	CG	Zone of strong clay alteration.							
657.15	661.27	4.12	GRD	CG	Zone of mixed alterations we have strong clay alteration as well as zones of moderate to strong chloritic alteration with moderate potassic alteration. There a few quartz veins to veinlets throughout this interval.							
661.27	663.39	2.12	GRD	CG	Zone of fresher granodiorite that is tinged light grey to green in color with moderate potassic alteration.							
663.39	668.36	4.97	QFP	FG	same as general lithology							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
668.36	670.65	2.29	GRD	CG	Zone of strong clay alteration that is light green to yellow in color. Also in this interval we see zone of strong dark green chloritic alteration.							
670.65	674.96	4.31	GRD	CG	Zone of fresh granodiorite with moderate potassic alteration and blebby chloritic alteration.							
674.96	678.18	3.22	GRD	CG	Zone of strong clay alteration that is light green to yellow in color. There are also local zones of strong chloritic alteration with moderate potassic alteration with this chloritic alteration.							
678.18	678.70	0.52	BXA	FG	Zone of granodiorite that has quartz brecciation coming in. The quartz is white to light to medium grey in color. There is blebby pyrite and sphalerite occurring locally. There is a minor rubble zone at the lower contact and then there is brecciation with gouge along the fracture surfaces.							
678.70	684.63	5.93	GRD	CG	Mixed zone of alteration with zones of strong clay alteration that is light yellow to green in color but there is also zones of dark green chloritic alteration with weak to moderate potassic alteration. There is also local patchy hematite atleration.							
684.63	684.75	0.12	QFP	FG	White to light buff qfp dyke.							
684.75	685.12	0.37	VEN	FG	Dark grey brecciated vein with light grey to white quartz clasts / veinlets to stringers. In the middle of this interval we see a zone of 6 cm of gouge.							
685.12	685.32	0.20	QFP	FG	Same as general lithology							
685.32	685.50	0.18	GRD	FG	Mixed zone of granodiorite as well as quartz brecciation with dark grey to white quartz.							
						MD	GN					
						LT	WH					
						LT	GY					
						DK	GY	PH				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
685.50	687.83	2.33	GRD	CG	Coarse grained altered granodiorite that is strongly clay altered that is light green to light yellow in color. Throughout this interval there are quartz / sulphide veinlets that contains pyrite, sphalerite as well as galena.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	YW				Sp	0.1
						LT	GY				Gn	0.1
687.83	689.08	1.25	VEN	FG	Quartz / sulphide vein zone with dark grey to light grey to white quartz. Predominantly the sulphides are pyrite but there is also some trace black jack sphalerite. Pyrite as well as sphalerite is belbby. Pyrite - up to 6%.							
						MD	GY					
						LT	WH					
						LT	GY				Sp	0.1
						DK	GY				Py	6
689.08	693.50	4.42	GRD	CG	Mixed zone of alterations with strong clay alteration that is light green to yellow in color found around quartz veining with sulphides as well there is fresher granodiorite with a light grey / green tinge to core with moderate potassic alteration. There are a few quartz / sulphide veins in this itnerval with pyrite and sphalerite.							
											Py	0.1
											Sp	0.1
693.50	698.75	5.25	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There are weak local zones of the fresher granodiorite. At the lower contact of this interval there is broken and rubbled core. There are carbonate stringers to veinlets throughout this interval.							
698.75	701.24	2.49	GRD	CG	Mixed zone of alteration but predominantly dark green chloritic alteration with moderate light pink potassic alteration. There is also zones of strong clay alteration that is light green to yellow in color. There is also some minor rubble in this interval.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
701.24	704.27	3.03	GRD	CG	Zone of fresher granodiorite that is light grey / green with mooderate potassic alteration as well as blebby chloritic alteration. There are quartz / carbonate veinlets in this interval.							
704.27	705.85	1.58	GRD	CG	Zone of strong clay alteration that light green to yellow coloration there is also zones of moderate to strong chloritic alteration that is medium green in color. At the lower contact there is light blue clay alteration with moderate potassic alteration.							
705.85	709.46	3.61	GRD	CG	A mixed zone of alterations with fresher granodiorite with a light grey/ green tinge with moderate potassic alteration. There is also zones of strong clay alteration that is light yellow to green. These zones are found around quartz / carbonate veinlets. There are local zones of chloritic alteration.							
709.46	715.57	6.11	GRD	CG	A zone of fresher granodiorite with weak potassic alteration with blebby chloritic alteration. There is minor white clay alteration in local areas.							
715.57	716.65	1.08	GRD	CG	Mixed zone of altered granodiorite that has strong clay alteration that is light green to yellow in color as well we see moderate chloritic alteration coming in at the upper and lower contacts. In the middle of this interval there is a quartz / pyrite vein.							
											Py	0.1
716.65	716.72	0.07	VEN	--	small 3cm true width qtz-sulphide-feldspar veinlet at 48 deg tca. Quartz semi-translucent, light grey, 12% py with minor medium brown sphal and trace Gal, minor dark grey fine mineral around py, possibly sulphosalt. Minor feldspar in vein, light cream white, occuring in central portion of vein. Alteration halo extending ~20 cm to either side. Light to medium green-cream clay.							
						MD	GN				Sp	2
						LT	GN	EN			Py	12
						LT	GY				Gn	1
						LT	CR				Un	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
728.60	728.70	0.10	APL	FG	10cm brown-ish orange-ish red aplite dyke, fine grained with minor disseminated Py							
						MD	BN	MA			Py	1
						LT	OR					
						LT	RD					
729.69	733.79	4.10	SIL	FG	Mottled mess of silica dyke material, sucrosic textrue, mainly quarts, clasts of med grained GRD, generally containing disseminated Py. Secondary biotite occuring in wavy bands of alteration sometimes seem surrounding GRD clasts (scavanged fe/mg from mafic minerals from GRD inclusions/clasts within dyke?). Lower ~15cm is silica altered with ~2% disseminated by near contact with veinlet							
						MD	GY	ZO				
						MD	BN	PA	SIL	2I	Py	0.5
						DK	RD	MO				
733.79	733.84	0.05	VEN	--	small 4cm true width veinlet at 80 deg tca. 35% py, qtz with minor grey-cream coloured carboante.							
						MD	GY				Py	35
733.84	734.00	0.16	SIL	FG	Silica dyke material, sucrosic textrue, mainly quarts, trace disseminated Py.							
						MD	GY	SU	SIL	4I	Py	2
740.94	741.10	0.16	BXA	--	vein breccia at 15 deg tca, cm true width. Breccia matrix hosted in bluish grey carbonate, bound by veinlets of calcite, minor pinkish carbonate. Minor py in bxa, 3%							
						LT	GY	BX			Py	3
						LT	BL					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
741.10	755.03	13.93	GRD	CG	medium to coarse grained with pervasive weak chlorite alteration and potassic alteration, patchy clay alteration around small veinlets of qtz carbaonte, sometimes with weak secondary chlorite alteration overprinting clay alteration. 1cm veinlet at 744m with qtz-carb and minor py. 746.3m small 3mm veinlet with qtz and minor py. 747m 8mm chalcedonic qtz band, med light grey, and 1cm cream white carboante veinlet, both veinlets with very trace py. Small brecciated interval at 747.1-747.15m. 747.15-747.3 chalcedony flooded breccia with trace py and some secondary bands of grey chalcedonic qtz cutting through bxa, minor carbaonte in vineing/infill.							
						MD	GN	PA	CLY	3I	Py	0.2
						MD	GY	MO	CHL	2I		
						LT	GY	ZO	SIL	2I		
						LT	GN		POT	2I		
						LT	CR					
755.03	755.60	0.57	SIL	FG	dark grey brown sucrosic siliceous dyke. Somewhat similar to other siliceous dyke a few units above.							
						MD	GY	SU			Py	0.2
						MD	BN					
755.60	761.17	5.57	GRD	CG	coarse grained GRD, pervasive weak potassic, weak siliceous, and moderate chlorite alteration. Some darker fine grained xenoliths, weak to moderately magnetic, pervaseve moderate chlorite alteration. 758.0-758.2m interval of stronger chlorite alteration, still med grained grd, with weak magnetic (secondary magnetite?, altered larger xenolith?). Clay alteration increasing in bottom 2m of interval proximal to veining below. Rare small stringers with minor py							
						MD	GY	ZO	POT	2I	Py	0.2
						MD	GN	PA	SIL	2I		
						LT	GY		CHL	3I		
						LT	RD		CLY	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
761.17	761.81	0.64	VEN	CG	Vein zone in crackled medium grianed, altered GRD comprized of grey chalcedonic quartz veinlets and grey chalcedonic breccia, maybe 20% vein/infill material over interval, containing Py, Sphal, Gal, Aspy. Some open cavities remain in breccia. Chalcedonic veins oriented at 73 deg tca.							
						MD	GY	CR	SIL	3I	Py	2
						LT	GN	BX	CLY	2I	Sp	1
						LT	GY		CHL	2I	Gn	0.5
											As	0.5
761.81	761.86	0.05	VEN	--	Qtz Py vein, 80 deg tca, light grey quartz with pale silver grey py, 60% over interval, no other sulphides, no carbonate. Moderate white clay alteration halo extneding ~10cm to either side of vein.							
											Py	60
761.86	762.54	0.68	GRD	CG	Pervasive clay chlorite silica altered grd between small mineralized vienlets. Trace small py stringers cutting through at similar orientations to veins above and below. Light green grey colour.							
						MD	GY		CHL	2I		
						LT	GY	ZO	SIL	2I		
						LT	GN	MO	CLY	3I	Py	0.5
762.54	762.69	0.15	VEN	--	three smaller viens within this interval, Qtz-siderite-ankerite/dolomite vienlets with py and trace sphal, 15% Py over interval. Moderate white-greenish clay alteration halo extends 5 cm into altered grd on both sides, with some py in alt halo. Veins at 756-80 deg tca.							
											Py	15
											Sp	1
762.69	769.40	6.71	GRD	CG	Coarse to medium grianed GRD. Pervasive weak chlorite alteration of mafic minerals and potassic alteration of feldspars throughout interval. Upper portions of interval overprinted by white clay alteration down to 766.5m.							
						MD	GY	PA	CHL	2I		
						LT	GN	ZO	POT	2I		
						LT	GY	MO	CLY	3I	Py	0.5
						LT	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
769.40	775.40	6.00	GRD	MG	Sheeted veinlets in pervaisvley weakly potassically altered, overprinted by weak to moderate clay alteration, medium grained GRD. Patchy chlorite and silica alteration halos around some veinlets of Qtz Py-Carb. Veinelts no owider than 4mm, orientations variable.							
						MD	GY		CHL	2I		
						LT	GY	ZO	SIL	1I		
						LT	CR	PA	CLY	3I		
						LT	GN	MO	POT	2I	Py	1
775.40	775.93	0.53	BXA	--	brecciated medium grained GRD, cut by bands of light grey chalcedonic quartz with bands of mineralization, py-sphal-gal. Square crystals of a soft light grey-white mineral in some chalcedony filled cavities, possibly barite.							
						MD	GY	BX			Gn	1
						LT	GN	FR			Sp	2
						LT	GY	FL	SIL	4I	Py	3
775.93	783.53	7.60	GRD	MG	Medium grained GRD. Pervasively clay-chl alteration overprinting pervasive weak potassic alteration. Minor veinlets/stringers of Qtz-py. Small rhyolite dykes cutting trhough at 778m and 779m, both ~3cm true width. Interval at 779.6m of small veinlets and fractures infilled with medium grey chalcedonic qtz with py and minor sphal. Slightly rubbly interval at 780.4-780.6m.							
						MD	GY	PA	CLY	3I	Py	1
						LT	CR	ZO	CHL	3I		
						LT	GN	MO	SIL	2I	Sp	0.2
									POT	2I		
783.53	783.61	0.08	VEN	--	5cm true width vein at 65 deg tca with Qtz Carb Py and minor Cpy.							
											Py	20
											Cp	1
783.61	787.33	3.72	GRD	MG	Pervasive weak chlorite-clay alteration overprinting weak potassic alteration in medium grianed GRD. Rare small >3mm veinlets of qtz-py-carb. Minro disseminated Py in vein halos, associated with biotite alterring to pale grey sericite. .							
						MD	GY	MO	CLY	2I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	CR		POT	2I		
						LT	GN	ZO	CHL	2I		
						LT	GY	PA	SIL	1I		
787.33	788.40	1.07	GRD	MG	Small sheeted vein in hanging wall contact with dyke. Milky grey quarts and cream carboante with minor sulphide mineralization. Over interval 3% Py with minor Sphal and trace Gal. Hosted in med grained GRD with alteration similar to that observed in unit above							
						MD	GY		POT	2I		
						LT	GY	ZO	SIL	1I	Sp	1
						LT	CR	PA	CHL	2I	Gn	0.2
						LT	GN	MO	CLY	3I	Py	3
788.40	788.50	0.10	VEN	--	Two veins at hanging wall contact with Dyke, 2cm true width and 4cm true width. Brecciated dark grey silicified section at contact with dyke, 1cm thick. All structures at 78 deg tca. Mineralization in veins is only py, crackled and rehealed with qtz. No other sulphides observed							
											Py	25
788.50	813.63	25.13	QFP	FG	Felsic QFP dyke, medium buff green grey. Abundant phenocrysts, some intervals pheno poor, but generally abundant pheno. Qtz larger than feld. 13cm fractured interval around 1cm mineralized veinlet at 789.7 containing 40% py over 1cm interval, 60 deg tca. Qtz-Py vein at 792.3m, 72 deg tca, 6cm true width, 55% py over interval. Trace other very small stringers with minor Py throught rest of dyke interval.							
						MD	BF	PO	CLY	2I	Py	1
						LT	GY		CHL	1I		
						LT	GN					
813.63	857.69	44.06	FEL	FG	Fine grained felsic unit, abundant <1mm feldspar crystals in fine grained translucent matrix, clast supported. Dissemianted Py throughout unit, occuring in small blebs, ~1.5% Py over interval. Alteration patchy, clay or silica alteration oround small veinlets or fractures. Occasional small veinelts containing mainly Py, but occasionally with Gal and Sphal, >5mm wide. Veinlets broken out in secondary lith.							
						MD	GY	PA	CLY	2I	Py	1.5
						LT	BN	ZO	SIL	2I	Gn	0.1
						LT	GN				Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	0.30	0.30	CAS	---	--	Casing no core recovered.
0.30	2.68	2.38	GRD	OVB	--	OVB - there is 4 cm of rubbled and re-drilled core at the start of the interval and then we get into a competent piece of core for 50 cm and then we get into rubble and residual soil. Then we have some more competent core and another section of rubbled up core with residual soil.
2.68	3.05	0.37	GRD	GRD	CG	Same as the general lithology.
3.05	3.66	0.61	GRD	GRD	CG	Same as general lithology except there is a long fracture occurring in this interval occurring at 5 degrees tca.
3.66	8.99	5.33	GRD	GRD	CG	Same as general lithology. There are local large blebs of chlorite in this interval. Locally appearing xenolithic with coarse grains occurring in the chloritic blebs.
8.99	9.02	0.03	VEN	GRD	FG	Small white quartz vein with a local alteration halo around the vein with patchy pervasive limonite alteration.
9.02	14.62	5.60	GRD	GRD	CG	Same as general lithology except there is patchy white clay alteration coming in along fracture surfaces.
14.62	18.60	3.98	GRD	GRD	CG	A mixed zone of altered and un-altered granodiorite. At the upper contact we see a shear that is sub parallel tca (14.63 - 14.89 m) and there is light blue clay alteration. There is a local section of pervasive chloritic alteration at 15.17 - 15.24 m that is coming in along fracture surfaces. There are also two local zones of light green/ yellow strong clay alteration at 15.56 - 16.0 m and 17.26 - 18.60 m that also have chloritic alteration halos staining the clay alteration.
18.60	31.54	12.94	GRD	GRD	CG	Same as the general lithology.
31.54	32.09	0.55	GRD	GRD	CG	Zone of strong clay alteration that is white as well as light green/ yellow. There is weak potassic alteration. That is occurring around a quartz vein.
32.09	32.22	0.13	VEN	VEIN	FG	Quartz vein with sulphides. Dark grey and light grey quartz with blebby pyrite, sphalerite and galena. The sulphides are disseminated throughout this vein.
32.22	32.92	0.70	GRD	GRD	CG	Zone of light yellow/ green strong clay alteration. There is local white clay alteration with moderate potassic alteration. There is a small quartz stringer with sulphides in it at 32.86 m. The quartz is light grey with blebby sphalerite and some minor galena.
32.92	33.42	0.50	GRD	GRD	CG	There is a mixed zone of alteration with light green / blue with moderate potassic alteration. Then there is strong white clay alteration and then back to light green / yellow clay alteration.
33.42	34.81	1.39	GRD	GRD	CG	Same as general lithology.
34.81	35.60	0.79	GRD	GRD	CG	There is a mixed zone of alteration with light white / blue with moderate potassic alteration. Then there is strong light green / yellow clay alteration. There is a quartz veinlet with pyrite running through the middle of the quartz.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
35.60	38.34	2.74	GRD	GRD	CG	Same as the general lithology. Fairly unaltered granodiorite.
38.34	39.75	1.41	GRD	GRD	CG	Mixed zone of alteration but predominantly light green/ yellow in color. There is also strong white clay alteration with weak potassic alteration. There is local gouge zone at 39.0 - 39.06 m after with gouge zone we see blebby sphalerite as well as trace galena in a quartz vein. There are also two pyrite stringers occuring after this vein.
39.75	40.40	0.65	GRD	GRD	CG	Same as general lithology but with local green/ yellow clay alteration.
40.40	41.15	0.75	GRD	GRD	CG	Zone of strong yellow / green clay alteration. There are two qurtz/ sulphide veinlet in this interval at 40.56 - 40.61 m. They range in size from 4 - 7 mm wide. The first vein has pyrite and sphalerite and the second veinlet has pyrite as well as sphalerite. Pyrite and spalerite is blebby. Vein is light grey quartz. There is patchy cream colored carbonate alteation in the vein as well.
41.15	58.12	16.97	GRD	GRD	CG	Same as general lithology - fairly un-altered granodiorite. There are local strong zones of strong potassic alteration that is salmon colored (43.50 - 44.20 m). There are also zones of strong chloritic alteration at 51.80 - 52.30 m. Along local fracture surfaces there is hematite alteration.
58.12	58.30	0.18	GRD	GRD	CG	Zone of strong white clay alteration with local light blue as well. There is moderate potassic alteration. At the lower contact is gradational and there is moderate chloritic alteration.
58.30	63.60	5.30	GRD	GRD	CG	Same as general lithology. Fairly un-altered granodiorite.
63.60	65.29	1.69	GRD	GRD	CG	This is a zone of darker potassic alteration that is light pink in color as well as some moderate chloritic alteration.
65.29	65.65	0.36	GRD	GRD	CG	Strong white and light blue clay alteration with moderate to strong potassic alteration.
65.65	66.75	1.10	GRD	GRD	CG	Zone of stronger potassic alteration.
66.75	68.27	1.52	GRD	GRD	CG	Zone of strong light green/ yellow clay alteration. Patchy zones of limonite coming in along fracture surfaces. There are also black spots occurring locally in this unit as well locally along fracture surfaces with pyrite and trace galena. It is radiating on the fracture surfaces. Possible pyrolusite? Or tourmaline?
68.27	69.94	1.67	GRD	GRD	CG	Zone of stronger chloritic alteration with weak to moderate potassic alteration. Along fracture surface we see weak white to light blue clay alteration. There is also limonite coming in along fracture surfaces. There is chloritic coming in along fracture surfaces and there is a sharp lower contact.
69.94	71.63	1.69	GRD	GRD	CG	Zone of weak to moderate clay alteration that is light green / yellow. There are black flecks throughout this interval (possibly tourmaline?). There is also some minor pyrite.
71.63	77.08	5.45	GRD	GRD	CG	Zone of strong white to light green/ yellow clay alteration. Locally there is limonite and hematite alteration coming in along fracture surfaces. Locally there is black flecks of tourmaline? And there is pyrite occurring along fracture surfaces as well as disseminated.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
77.08	77.13	0.05	VEN	GRD	FG	Quartz vein with sulphides - the quartz is white to light pink in color with light grey and dark grey. There is blebby pyrite, galena as well as some minor sphalerite. Galena is occurring as blebby and along the vein selvage. There is also a black radiating mineral in the quartz.
77.13	78.50	1.37	GRD	GRD	CG	Zone of strong clay alteration that is light yellow/ green with patchy white. There is patchy pervasive limonite alteration. There is also a brecciated vein zone at the top of this interval at 77.20 - 77.30 m.
78.50	80.28	1.78	GRD	GRD	CG	Zone of strong chloritic alteration with weak to moderate potassic alteration that grades into a stronly white clay altered.
80.28	84.48	4.20	GRD	GRD	CG	Zone of strong clay alteration that is predominantly white to locally light blue in color. It is locally also limonite altered to the clay alteration. There is also local moderate potassic alteration. There is local strong chloritic alteration as well.
84.48	86.87	2.39	GRD	GRD	CG	Zone of strong chloritic alteration with moderate potassic alteration. There is local limonite along fracture surfaces. Sharp lower contact.
86.87	87.81	0.94	GRD	GRD	CG	Zone of strong white clay alteration as well as light yellow / green with local moderate potassic alteration. There are also local strong chloritic blebs.
87.81	89.92	2.11	BXA	DYK	FG	Brecciated QFP dyke that has limonite coming in along fracute surfaces. Dyke is light to medium grey in color. Locally this interval is very gougy with small clasts floating in the gouge.
89.92	114.37	24.45	QFP	DYK	FG	Light grey / green to medium brown with local sections of medium brown / purple due to pervasive hematite alteration. At the upper contact of this dyke we see local foliation texture - 60 degrees tca. The upper portion of this interva is rubbled and broken up. Phenocrysts in this interval are clay altered there is also unaltered glassy grey quartz phenocrysts. Theres a local brecciated zone at 100.33 - 100.4 m. This dyke is foliated at the lower contact as well - 60 degrees tca
114.37	114.80	0.43	GRD	GRDA	CG	Zone of strong white clay alteration with moderate potassic. There is also some local blebby chloritic alteration.
114.80	117.90	3.10	GRD	GRDA	CG	Zone of moderate to strong chloritic alteration with moderate to strong potassic alteration. Sharp lower contact.
117.90	119.01	1.11	GRD	GRDA	CG	Mixed zone of alteration with strong white to light green/ yellow. There is also local strong zones of potassic alteration with chlorite.
119.01	120.75	1.74	GRD	GRDA	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. Sharp lower contact.
120.75	122.11	1.36	GRD	GRDA	CG	Zone of strong clay alteration that is white at the upper contact and grades into a light green / yellow. Sharp lower contact. At the upper contact we also see moderate potassic alteration and then it grades out. There are two dark grey quartz veinlets in this interval.
122.11	123.96	1.85	GRD	GRDA	CG	Zone of moderate to strong chloritic alteration with moderate potassic alteration.
123.96	125.46	1.50	GRD	GRDA	CG	Predominantly strong white clay alteration with local light blue there is also moderate to strong potassic alteration in this interval. There are also local zones of light green / yellow clay alteration. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
125.46	130.38	4.92	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration. There are local blebs of chloritic alteration. Sharp lower contact.
130.38	131.14	0.76	GRD	GRDA	CG	Zone of light green / yellow clay alteration with local quartz veining - at 130.64 - 130.70 m. White to light grey quartz with white to cream colored carbonate alteration. There is blebby pyrite and galena. Galena is disseminated while pyrite is occurring in bands in and near the quartz veining. Weak potassic alteration at the upper and lower contacts. Sharp lower contact.
131.14	132.12	0.98	GRD	GRDA	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. There is chlorite coming in along fracture surfaces as well.
132.12	132.59	0.47	GRD	GRDA	CG	Zone of strong light yellow/ green clay alteration with weak potassic alteration at the upper and lower contacts. In the middle of this interval there is sulphide veining at 132.39 - 132.45 m. There are two separate sulphide veins 5 mm wide. The first one is dominantly galena and the second one is pyrite.
132.59	134.97	2.38	GRD	GRDA	CG	Zone of moderate chloritic alteration as well as moderate potassic alteration. Chlorite coming in along local large blebs as well as along fracture surfaces.
134.97	136.15	1.18	GRD	GRDA	CG	Zone of strong white clay alteration with local light blue as well as moderate to strong potassic alteration. There is a sulphide veinlet at 135.39 - 135.40 m. Veinlet is 6 mm wide and has white to light grey quartz with blebby pyrite.
136.15	138.38	2.23	GRD	GRDA	CG	Mixed zone of alteration with strong white clay alteration with moderate to strong potassic alteration. Also there are zones of strong chloritic alteration.
138.38	140.86	2.48	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration.
140.86	148.85	7.99	QFP	DYK	FG	QPF dyke with much small phenocrysts than normal. In this interval they have been clay altered (white). There is no quartz phenocrysts in this interval. This interval is light grey in color to locally dark purple in color. There is fracturing throughout this interval. There is slight brecciation at the upper contact at 141.0 - 141.07 m. The lower contact is also brecciated and gougy.
148.85	148.93	0.08	VEN	GRDA	FG	Quartz / sulphide vein zone. There are two quartz veinlets that are 4 mm wide. The quartz is white to light grey with blebby galena and spalerite.
148.93	149.53	0.60	BXA	GRDA	CG	Zone of brecciation with abundant gouge along fracture surfaces. There is disseminated medium grained pyrite at the lower contact.
149.53	149.88	0.35	VEN	GRDA	FG	Quartz / sulphide vein zone. Veins are 2.5 - 4 cm wide. The quartz is white to light grey with blebby pyrite, galena, sphalerite as well as arsenopyrite. The arsenopyrite is fine grained but clustered together.
149.88	150.49	0.61	GRD	GRDA	CG	Zone of strong yellow/ green clay alteration. Sharp lower contact.
150.49	151.44	0.95	GRD	GRDA	CG	Zone of strong chloritic and moderate potassic alteration. Chlorite is coming in along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
151.44	166.60	15.16	GRD	GRDA	CG	Zone of fairly fresh and unaltered granodiorite except for some blebby chlorite alteration as well as moderate to locally strong potassic alteration ranging from light pink to darker salmon colored. Theres patchy hematite staining in this interval as well. There is local epidote comig in along fracture surfaces. There are minor quartz stringers in this interval.
166.60	169.46	2.86	GRD	GRDA	CG	Zone of dark green chloritic alteration.
169.46	175.70	6.24	GRD	GRDA	CG	Zone of mixed atleration with zones of dark chloritic alteration as well as strong white clay alteration to light yellow/ green. This interval has local brecciation. As well we have local quartz/ sulphide veins at 169.80 - 169.81 m, 170.40 - 170.50 m, and 173.55 - 173.57 m. The first one is 5 mm wide and has white quartz with blebby galena in a band. The second one is a shallowly dipping quartz vein that is white with blebby pyrite. The third one is a section of rubbled of pyrite stringer.
175.70	177.50	1.80	GRD	GRDA	CG	Zone of mixed alteration with a zone of strong white clay alteration with moderate potassic alteration. There is also light green/ yellow clay alteration. There is dark green chloritic alteration with moderate potassic alteration.
177.50	181.01	3.51	GRD	GRDA	CG	Mixed zone of strong clay alteration that is light green/ yellow also with zones of dark green chloritic alteration with weak potassic alteration. There is also a hematite band that is 4 cm wide.
181.01	181.16	0.15	VEN	VEIN	FG	Quartz / sulphide vein. The quartz is white to light grey with blebby sulphides - pyrite, galena and sphalerite. There is also light white to cream colored carbonate in this vein.
181.16	183.00	1.84	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color. There is local brecciation with gouge occurring along fracture surfaces. There is also a veinlet of black tourmaline? Along a breccia zone.
183.00	183.64	0.64	VEN	VEIN	FG	Quartz / calcite vein. The vein is white to cream colored there is also black tourmaline occurring in local clasts associated with pyrite.
183.64	185.02	1.38	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow / green in color there is also so dark green chloritic alteration locally pervasive. Sharp lower contact.
185.02	186.37	1.35	GRD	GRDA	CG	Zone of light green clay alteration as well as strong chloritic blebby alteration. At the latter half of the interval we see the presesence of potassic alteration coming in - weak to moderate.
186.37	186.92	0.55	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color.
186.92	186.98	0.06	GRD	GRDA	FG	Quartz / sulphide vein. The quartz is dark grey to light grey to white with blebby sphalerite, pyrite and galena.
186.98	188.62	1.64	GRD	GRDA	CG	Zone of strong light yellow to green clay alteration. The lower contact is gradational with chlorite and potassic alteration comin in at the lower contact.
188.62	190.11	1.49	GRD	GRDA	CG	Zone of more fresh granodiorite with weak chloritic alteration as well as moderate potassic alteration.
190.11	190.74	0.63	GRD	GRDA	CG	Zone of chloritic alteration with moderate potassic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
190.74	195.04	4.30	GRD	GRDA	CG	Zone of more fresh granodiorite with weak chloritic alteration as well as moderate to strong potassic alteration. There is chlorite coming in along fracture surfaces as well as local blebs of chlorite. Sharp lower cotact.
195.04	197.30	2.26	GRD	GRDA	CG	Zone of strong white clay alteration with moderate potassic alteration. There is dark chloritic alteration coming in along fracture surfaces.
197.30	198.51	1.21	GRD	FLT	CG	Small fault zone hosted in granodiorite. Zone is strongly clay altered that is light green / yellow in color. This fault is predominantly rubble with some minor gouge. Rubble - 90% and gouge - 10%.
198.51	199.74	1.23	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color. 199.27 - 199.30 m is a broken up quartz sulphide vein with white to grey quartz with blebby galena and minor pyrite.
199.74	200.51	0.77	GRD	GRDA	CG	Zone of strong white clay alteration with moderate potassic alteration also there is local chloritic blebs.
200.51	202.52	2.01	GRD	GRDA	CG	Zone of strong chloritic alteration with local hematite alteration along fracture surfaces.
202.52	206.07	3.55	GRD	GRDA	CG	Strong clay alteration that is white to locally light blue as well as medium green stained from chloritic alteration. Moderate potassic alteration as well as local moderate hematite alteration.
206.07	207.00	0.93	GRD	GRDA	CG	Zone of dark green chloritic alteration with moderate potassic alteration.
207.00	209.55	2.55	GRD	GRDA	CG	Zone of strong yellow/ green clay alteration. There is also a local zone of strong white clay alteration and at the bottom of this interval has patchy strong hematite. There is local quartz veining in this zone at 207.375 - 207.38 m, 209.10 - 209.41 m and 209.0 - 209.08 m. The last two are irregular zones of quartz with branching. The first quartz veinlet is 4 mm wide and has light grey to white quartz with blebby galena - trace. The second one has dark grey to light grey quartz with blebby sphalerite, pyrite and galena. The third is white with dark grey quartz with trace pyrite, galena and sphalerite.
209.55	213.43	3.88	GRD	GRDA	CG	Zone of strong clay alteration that is white to light blue as well as local light green/ yellow alteration with strong potassic alteration. There is also dark green chloritic alteration locally staining.
213.43	219.06	5.63	GRD	GRDA	CG	Zone of less altered granodiorite with modertate to strong potassic alteration as well as blebby chloritic alteration. Around quartz stringers there is light yellow / green clay alteration.
219.06	219.32	0.26	GRD	GRDA	CG	Zone of strong yellow/ green clay alteration (alteration halo around quartz vein).
219.32	219.39	0.07	VEN	GRDA	FG	Quartz / sulphide vein. White, light grey to dark grey quartz with blebby sphalerite, pyrite and galena.
219.39	219.65	0.26	GRD	GRDA	CG	Zone of strong yellow/ green clay alteration (alteration halo around quartz vein).
219.65	220.46	0.81	GRD	GRDA	CG	Zone of less altered granodiorite except for the light green chloritic staining. At the lower half of the interval it is strongly clay altered - white. Sharp lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
220.46	220.80	0.34	GRD	GRDA	CG	Zone of strong green / yellow clay alteration with a quartz / sulphide / carbonate vein in the middle of the interval at 220.61 - 220.65 m. The quartz is light to dark grey with white strong carbonate alteration coming in along the vein selvage. There is blebby galena, sphalerite and pyrite. The galena is occurring in the middle of the vein. The sphalerite and pyrite is occurring near the vein.
220.80	221.78	0.98	GRD	GRDA	CG	A mixed zone of strong chlorite as well as light yellow / green clay alteration with a quartz / sulphide vein at 221.25 - 221.28 m. The quartz vein is light grey to white with blebby galena, sphalerite and pyrite.
221.78	225.63	3.85	GRD	GRDA	CG	A mixed zone of alteration. Predominantly more fresh granodiorite that is weakly chloritic as well as weakly to moderately potassic alteration (light pink). Around quartz veining we see haloing that is medium green to light yellow clay alteration as well as dark green chloritic alteration. There is a minor section of strong clay alteration that is white to medium blue.
225.63	225.86	0.23	QFP	DYK	FG	Small QFP dyke? Or brecciated zone? The matrix is fine grained and light to medium grey with some clay altered phenocrysts as well as light grey glassy phenocrysts. Sharp upper and lower contacts. There is also a wall rock chunk in this zone that is strongly clay altered granodiorite.
225.86	226.85	0.99	GRD	GRDA	CG	Zone of blebby strong chloritic alteration. Weakly gradational contact.
226.85	231.02	4.17	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chlorite and moderate to locally strong potassic alteration (light pink). Sharp lower contact.
231.02	232.57	1.55	GRD	GRDA	CG	Mixed zone of alteration that has local strong light yellow/ green clay alteration as well as dark green chloritic alteration with moderate potassic. There is a quartz / sulphide / carbonate veinlet near the top of the interval at 231.09 - 231.10 m. The vein has buff colored carbonate alteration at the lower contact of the veinlet. There is also blebby pyrite, galena and sphalerite in the veinlet - trace.
232.57	234.25	1.68	GRD	GRDA	CG	Zone of less altered granodiorite with weak chloritic alteration and moderate potassic alteration. Sharp lower contact.
234.25	237.61	3.36	GRD	GRDA	CG	Zone of strong light yellow / green clay alteration with quartz veining throughout this interval - 6 different veins. A few of them are quartz sulphide veins and the rest appear to be small dykes or veins? They are light grey with a fine grained matrix and with white phenocrysts with white carbonate alteration along the vein selvages. There is blebby pyrite, sphalerite and galena in the quartz veining.
237.61	238.12	0.51	VEN	VEIN	FG	Dark grey to light grey to white quartz that is irregular in shape. There is white carboante occurring along the vein selvages. There is blebby pyrite, sphalerite and galena.
238.12	239.80	1.68	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow. There is also a local zone of dark green chloritic alteration. There is a quartz/ sulphide veinlet at 238.65 - 238.66 m that has blebby sphalerite and galena as well as fine grained pyrite.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
239.80	241.47	1.67	BXA	GRDA	CG	Breccia zone hosted in altered granodiorite. There is a quartz / sulphide vein at 240.73 - 240.80 m. That is light grey to dark grey to white quartz with blebby pyrite, galena and sphalerite. After 241.08 m we see a change from the clay alteration to dark green chloritic alteration.
241.47	244.36	2.89	GRD	GRDA	CG	Zone of less alteration with blebby chloritic alteration as well as moderate potassic alteration. There is dark green chloritic alteration coming in along fracture surfaces. Sharp lower contact. There is also a local pervasive bleb of chlorite - 242.35 - 242.46 m.
244.36	245.37	1.01	GRD	GRDA	CG	Zone of strong light yellow / green clay alteration as well as patchy dark green chloritic alteration. There is a quartz / sulphide veinlet in this interval with pyrite, galena and sphalerite.
245.37	259.95	14.58	GRD	GRDA	CG	Zone of less altered granodiorite that has moderate potassic alteration as well as blebby chlorite. There is also local strong chloritic alteration occurring.
259.95	265.57	5.62	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color as well as white to light blue. There is also moderate potassic alteration. Locally there is dark green chloritic alteration with moderate potassic alteration. There is local quartz / sulphide veinlets at 260.54 - 260.65 m.
265.57	266.90	1.33	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteraiton as well as moderate to strong potassic alteration.
266.90	269.74	2.84	GRD	GRDA	CG	Zone of strong clay alteration that is light blue in color there is also moderate potassic alteration. At the lower contact there is dark green chloritic alteration (strong) with patchy hematite - 269.24 m.
269.74	271.44	1.70	GRD	FLT	CG	Small fault zone that is rubbled up with a large competent section that is 0.40 cm wide. In this competent section of core there is a shallowly dipping quartz vein that is white with open space cavities that are infilled with re-crystallized quartz. This zone has moderate clay alteration with moderate chloritic alteration. There is local chlorite along fracture surfaces as well as patchy hematite.
271.44	275.62	4.18	GRD	GRDA	CG	Altered granodiorite that has strong patchy dark green chloritic alteration as well as strong patchy hematite alteration. At the lower contact we strong light yellow to green clay alteration.
275.62	276.02	0.40	BXA	GRDA	CG	Altered granodiorie that is brecciated with gouge occurring along the fracturing.
276.02	276.96	0.94	VEN	GRDA	CG	Altered granodiorite with a grey fine grained cherty looking quartz vein running throughout this interval. There are also quartz / sulphide veinlets that are cross cutting the grey quartz with blebby pyrite and sphalerite.
276.96	277.16	0.20	VEN	VEIN	FG	Irregular quartz vein that is light grey to white quartz with white carbonate along the vein selvages. There is also blebby pyrite, galena as well as spalerite. There is also open space cavities infilled with barite. Strong sphalerite in this vein that is infilling most of the vein - black jack as well as local dark brown sphalerite.
277.16	278.19	1.03	GRD	GRDA	CG	Zone of strong light yellow / green clay alteration. There is a quartz / sulphide vein near the start of this interval. Quartz is light grey to white with blebby black sphalerite with lesser pyrite and galena.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
278.19	282.52	4.33	GRD	GRDA	CG	A zone of mixed moderate to strong chloritic alteration with moderate to strong potassic alteration but with the more regular granodiorite texture. There are also zones of strong chloritic alteration around quartz veining. There is also a zone of pervasive fine grained chloritic alteration at 279.32 - 279.53 m.
282.52	285.38	2.86	GRD	GRDA	CG	Zone of moderate to strong chloritic alteration with local light yellow/ green clay alteration occurring around quartz veining.
285.38	285.71	0.33	GRD	GRDA	CG	Zone of blebby chloritic alteration with moderate potassic alteration. More fresh granodiorite.
285.71	288.25	2.54	GRD	GRDA	CG	Zone of moderate to strong chloritic alteration. There is quartz veining throughout this interval. The lower contact is sharp.
288.25	288.68	0.43	GRD	GRDA	CG	Zone of moderate chloritic and potassic alteration.
288.68	291.09	2.41	GRD	GRDA	CG	Zone of strong chloritic alteration with moderate potassic alteration coming in halfway through the interval. There is patchy light yellow to light green clay alteration around quartz veining.
291.09	292.12	1.03	GRD	GRDA	CG	Zone of more fresh granodiorite with blebby chloritic alteration as well as moderate potassic.
292.12	293.42	1.30	GRD	GRDA	CG	Zone of strong dark green chloritic alteration with moderate potassic with local light green / yellow clay alteration along quartz veining. There is also light blue clay alteration in rubbled zone - 292.80 - 292.95 m. Sharp lower contact.
293.42	294.59	1.17	GRD	GRDA	CG	Zone of strong clay alteration that is white to light blue in color with moderate potassic alteration. There is local dark green patchy chloritic alteration. There is also zones of strong pervasive hematite alteration coming in along bands at the lower contact.
294.59	295.24	0.65	GRD	GRDA	CG	Zone of strong light green alteration to yellow with rubble in the middle of the interval. There is a quartz veinlet running down the core axis with blebby tourmaline as well as pyrite.
295.24	295.65	0.41	GRD	VEIN	FG	Irregular quartz vein hosted in altered granodiorite. Quartz is light grey to white with buff colored carbonate alteration along the vein selvages. The vein has blebby galena and pyrite.
295.65	297.70	2.05	GRD	GRDA	CG	Zone of strong medium green to light yellow alteration clay alteration with quartz white quartz veining.
297.70	299.39	1.69	GRD	GRDA	CG	Zone of dark green chloritic alteration with moderate potassic alteration. There is fracturing that is running down the core axis that has chloritic alteration along the fracture.
299.39	302.03	2.64	GRD	FLT	CG	Fault zone hosted in altered granodiorite. There is rubble with minor gouge as well as some competent core. Rubble - 40%, Gouge - 30% and competent core - 30%. In this granodiorite we see blebby chloritic alteration as well as moderate potassic alteration. There is local blebby pyrite occurring along fracture surfaces.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
302.03	306.35	4.32	GRD	GRDA	CG	Zone of strong clay alteration that is white to light blue locally with moderate to strong potassic alteration (light pink). There is also blebby chloritic alteration. Sharp lower contact.
306.35	310.05	3.70	GRD	GRDA	CG	Zone of strong yellow / green clay alteration. There are multiply quartz veins in throughout this interval. In the veins there is pyrite, sphalerite and galena. There is also 4 fine grained apalite dykes? Occurring in this interbla that are medium brown / green in color. Gradational lower contact with light blue to white clay alteration with moderate potassic alteration. There is also minor gouge occurring in this interval that is 4 cm wide.
310.05	312.75	2.70	GRD	GRDA	CG	Zone of more fresh granodiorite that has moderate to strong potassic alteration with weak chloritic staining. There is a local zone of strong clay alteration that is light yellow to green and pervasive - 311.46 to 312.0 m. In this interval there is a quartz veinlet with sulphides and another quartz/ sericite vein. There is blebby pyrite as well as black blebby tourmaline? The lower contact is gradational and we start seeing weak to moderate clay alteration coming in.
312.75	317.07	4.32	GRD	GRDA	CG	Zone of strong clay alteration that is varying in color - light green to light yellow, as well as white and light blue. In the zones of white to light blue clay alteration we see moderate potassic alteration but not in the yellow/ green clay alteration. There is local hematite staining as well as patchy medium green chloritic alteration. The lower contact is sharp.
317.07	317.56	0.49	GRD	GRDA	CG	Zone of less altered granodiorite with moderate potassic alteration with weak chloritic alteration.
317.56	318.97	1.41	GRD	GRDA	CG	Zone of strong clay alteration that is light blue to white with moderate potassic alteration. There is local zones of dark green chloritic alteration as well there is patcy hematite alteration.
318.97	321.12	2.15	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color. There is several quartz veinlets in this interval that locally have sulphides - blebby pyrite, galena as well as sphalerite.
321.12	322.16	1.04	VEN	GRDA	CG	A mixed zone with altered granodiorite that is strongly clay altered light yellow to green as well as local quartz veining or silica flooding coming in along fracture surfaces. There is also local brecciation at 321.23 - 321.48 m
322.16	322.67	0.51	BXA	GRDA	CG	Small zone of breccia with gouge along fracture surfaces.
322.67	335.48	12.81	GRD	GRDA	CG	A mixed zone of altered granodiorite with strong clay alteration that is light green to yellow / grey pervasively. There is also blebby patchy dark green chloritic alteration. In the chloritic zones we see light pink/ salmon colored potassic alteration. There is white quartz veining occurring at the top of the interval and then as we go down interval there is a local zone of cherty medium grey quartz veining at 328.40 - 330.0 m. At the end of the interval we see a change to white to light blue clay alteration with moderate potassic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
335.48	336.47	0.99	GRD	FLT	CG	Small fault hosted in altered granodiorite. This fault is mostly made up of sand sized grains of granodiorite. There is also local rubble as well as minor competent core. There is dark green chloritic alteration with moderate light pink potassic alteration. Sand sized grains - 75%; Rubble - 15%; and competent core - 10%.
336.47	339.38	2.91	GRD	GRDA	CG	Zone of less altered granodiorite with moderate potassic alteration with disseminated black biotite. At the end of this interval there is a small sand sized section of granodiorite - 3 cm wide. There is light green/ blue clay alteration occurring as halos around quartz / carbonate stringers to veinlets.
339.38	340.39	1.01	GRD	GRDA	CG	Zone of strong clay alteration that starts as light blue and then grades into light yellow/green. There is moderate potassic alteration in the light blue clay alteration and dissapears in the stronger light green / yellow altered zones. Gradational lower contact.
340.39	342.03	1.64	GRD	GRDA	CG	Zone of more fresh granodiorite that has moderate potassic alteration. It has a gradational contact with weak chloritic alteration.
342.03	342.90	0.87	GRD	GRDA	CG	Zone of strong clay alteration that is medium green at the upper and lower contacts and grades into a light yellow/ green coloration. There is moderate potassic alteration throughout this interval and there is quartz veining in the middle of this interval occurring as stringers with blebby sulphides.
342.90	345.20	2.30	GRD	GRDA	CG	Zone of more fresh granodiorite with moderate potassic alteration. There is a gradational lower contact that has strong light blue clay alteration.
345.20	348.14	2.94	GRD	GRDA	CG	Zone of pervasive clay alteration that is light green to pale yellow in color. At the upper contact we see dark green blebby chloritic alteration. There are also quartz veinlets9 with blebby pyrite, sphalerite and galena.
348.14	351.75	3.61	GRD	GRDA	CG	Mixed zone of alterations - with more fresh granodiorite with moderate potassic alteration as well local zones of light green to yellow clay alteration - usually around quartz veins. There is also weak to moderate potassic alteration in the light yellow / green clay alteration. Gradational lower contact.
351.75	354.62	2.87	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green as well as local zones of green/ blue with moderate potassic alteration. Sharp lower contact. There are local quartz veins in this interval with sulphides. Blebby pyrite, sphlerite as well as galena. Small gouge zone in the middle of this interval - 3 cm wide.
354.62	356.37	1.75	GRD	GRDA	CG	Zone of more fresh un-altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. At the lower contact we see more strong chloritic alteration.
356.37	358.58	2.21	GRD	GRDA	CG	Zone of strong clay alteration that is light green to light yellow in color. There are local quartz/ sulphide veins in this interval - blebby pyrite and sphalerite.
358.58	363.03	4.45	GRD	GRDA	CG	Zone of more fresh granodiorite with weak potassic alteration and weak blebby chloritic alteration. Sharp lower contact. Around quartz veining there is light green/ yellow clay alteration. In this interval there is also fine grained xenolith that is dark green in coloration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
363.03	363.78	0.75	GRD	GRDA	CG	Zone of strong yellow/ green clay alteration. At the lower contact there is dark green chloritic alteration as well as a zone of white clay alteration with moderate potassic alteration.
363.78	365.76	1.98	GRD	GRDA	CG	Zone of more fresh, un-altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Around quartz veins there are light yellow / green clay alteration.
365.76	367.83	2.07	GRD	FLT	CG	Fault hosted in more fresh granodiorite. There is weak to moderate potassic alteration. As well there is moderate calcite along fracture surfaces in this interval. Competent core - 65%, Rubble - 20% and gouge - 15%.
367.83	372.78	4.95	GRD	GRDA	CG	Zone of more fresh granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration.
372.78	373.31	0.53	FLT	GRDA	CG	Weak fault zone with weak rubble and calcite coming along the fracture surfaces.
373.31	383.72	10.41	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Locally there is hematite along fracture surface as well we see calcite.
383.72	384.33	0.61	GRD	GRDA	CG	Zone of strong yellow / green clay alteration with local bands of dark green chloritic alteration.
384.33	385.21	0.88	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chlorite as well as weak potassic alteration. There is strong chloritic alteration at the upper contact. There is also hematite and epidote coming in along fracture surfaces.
385.21	385.40	0.19	GRD	GRDA	CG	Zone of strong light yellow / green alteration.
385.40	388.95	3.55	GRD	GRDA	CG	Zone of less altered granodiorite except for blebby chloritic alteration and weak to moderate potassic alteration. Epidote coming in along fracture surfaces.
388.95	391.17	2.22	GRD	GRDA	CG	A mixed zone of alteration with moderate fracturing with hematite coming in along them. There is also dark green chloritic alteration that is blebby as well as local light blue to white clay alteration.
391.17	393.86	2.69	GRD	GRDA	CG	A mixed zone of alteration with more fresh granodiorite and then dark green chloritic that is staining the core. There is epidote coming in along fracture surfaces.
393.86	395.24	1.38	GRD	GRDA	CG	A zone of dark green chloritic alteration with light green to yellow clay alteration coming in as halos to quartz veins.
395.24	396.76	1.52	GRD	GRDA	CG	A zone of less altered granodiorite with weak blebby chloritic alteration as well as weak to moderate potassic alteration. As we go down interval and get closer to the end of the interval there is stronger chloritic alteration.
396.76	398.39	1.63	GRD	GRDA	CG	Zone of stronger patchy pervasive hematite staining with patchy white clay alteration occurring in the less hematized areas.
398.39	399.05	0.66	GRD	GRDA	CG	A mixed zone of alterations with local strong white clay alteration to light blue with moderate potassic alteration there is also dark green chloritic alteration in the less clay altered zones.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
399.05	400.34	1.29	GRD	GRDA	CG	A mixed zone of more fresh granodiorite with moderate chloritic staining to a zone with strong chloritic alteration. At the end of the interval there is hematite staining along fracture surfaces.
400.34	402.98	2.64	GRD	GRDA	CG	A mixed zone of dark green chloritic alteration as well as patchy pervasive hematite alteration. At The start of the interval there is a fracture running sub-parallel tca and some minor rubble. Near the end of the interval there is a section of light green clay alteration.
402.98	429.38	26.40	GRD	FLT	CG	Fault hosted in altered granodiorite. The granodiorite is predominantly chlorite altered as well as patchy hematite staining. This fault zone is locally brecciated as well it has gouge and rubble. Local slicken lines - rake - 60 degrees tca. Rubble - 40%, Breccia/ gouge - 30%, and Competent core - 30%. At the lower end of the contact there is a sulphide vein that is pyrite / sphalerite.
429.38	431.96	2.58	GRD	GRDA	CG	Zone of less altered granodiorite in which we see blebby chloritic alteration as well as moderate potassic alteration. We see weak clay alteration coming in along the fracture surfaces as well as calcite.
431.96	432.54	0.58	GRD	GRDA	CG	Zone of strong clay alteration that is white to light blue in color with moderate potassic alteration. At the lower contact we see a small zone of dark green chloritic alteration. There is also a dyke? / vein? That is running sub parallel tca in this interval that is salmon pink in color with quartz phenocrysts in it.
432.54	436.62	4.08	GRD	GRDA	CG	Zone of less altered granodiorite with weak blebby chloritic alteration as well as weak to moderate potassic alteration. The dyke?/ vein? Alteration? That was in the previous interval is continued in this interval running sub parallel tca. There is one quartz vein in this interval at 434.01 - 434.03 m - that has white to light grey quartz and has local blebby pyrite at the selvage. This vein is discontinuous.
436.62	439.35	2.73	GRD	GRDA	CG	Zone of strong clay alteration that alternates between white to light blue clay to light yellow / green. In the white to light blue clay zones we also see moderate light pink potassic alteration. Locally in these zones we also see patchy chloritic alteration. At the end of the interval as well as at 438.19 - 438.65 m we see strong chloritic alteration associated with patchy hematite coming in along the fracture surfaces. We also have a a few quartz/ carboante stringers to veinlets in this interval.
439.35	440.44	1.09	GRD	GRDA	CG	Sheared interval that is sub parallel tca. At the upper and lower contacts we see altered granodiorite on one half of the core and brecciated/ gougy on the other half. In the middle of the interval it is strongly brecciated.
440.44	442.27	1.83	GRD	GRDA	CG	In this zone we see strong chloritic alteration as well as moderate patchy hematite alteration coming in along fracture surfaces. There is also local epidote associated with the hematite.
442.27	444.00	1.73	GRD	GRDA	CG	Zone of strong clay alteration that is light green in color. There is quartz stringers and veinlets in this interval. There is also disseminated medium grained pyrite occurring near these veins.
444.00	445.42	1.42	GRD	GRDA	CG	Mixed zone of atleration with blebby chloritic alteration as well as patchy light green clay alteration. There is also patchy potassic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
445.42	456.61	11.19	GRD	GRDA	CG	Zone of predominantly fresh granodiorite but there is also local zones of strong light green / yellow clay alteration. The fresh granodiorite has weak to moderate potassic alteration (light pink to salmon colored). There is disseminated black biotite. Locally there is also white to light blue clay alteration. In this interval there are multiple quartz veins with mineralization - pyrite predominantly but also local galena.
456.61	458.72	2.11	GRD	GRDA	CG	Zone of strong yellow / green clay alteration. There are local patches of chloritic alteration with moderate potassic alteration. In this interval there are quartz veining with mineralization.
458.72	460.25	1.53	GRD	GRDA	CG	Mixed zone of alteration with more fresh granodiorite with blebby chloritic alteration as well as weak potassic alteration. At the lower contact there is strong white clay alteration with moderate potassic alteration.
460.25	477.14	16.89	QFP	DYK	FG	QFP dyke that is light green / buff in color to dark brown in color with local with patchy red / brown. The phenocrysts in this interval are clay altered and white to light/ medium green. There are also glassy grey phenocrysts as well. There are white quartz veining occurring throughout this interval (not mineralized). Sharp upper and lower contact with granodiorite. At both contacts the granodiorite is un-altered.
477.14	478.37	1.23	GRD	GRDA	CG	Zone of strong clay atleration that is white to light blue in color there is also local light green / yellow at the lower contact. There is weak potassic alteration. There are local quartz and carbonate veinlets to stringers occurring throughout this interval. At 477.77 - 477.78 there is a quartz veinlet that is white to dark grey banding intermingled.
478.37	479.70	1.33	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak to moderate potassic alteration. At the lower contact there is some light green staining. There are white quartz / carbonate stringers throughout this interval. There is pyrite stringers in this interval as well as some local disseminated pyrite.
479.70	480.15	0.45	GRD	GRDA	CG	Zone of strong clay alteration that is light green / yellow there is also local dark green chloritic alteration. There is weak potassic alteration in this interval as well. The lower contact is sharp. At 479.86 - 479.92 m there is a quartz/ sulphide/ carbonate vein that is white to light grey to dark grey and has a banded appearance. In this vein there is fine grained pyrite as well as sphalerite.
480.15	487.62	7.47	GRD	GRDA	CG	Zone of fresh less altered granodiorite with blebby chloritic alterationas well as weak to moderate potassic alteration. There is local patchy epidote occurring in this interval as well. There are a couple zone of weaker light green/ yellow clay alteration around quartz veining at 480.75 - 480.96, 484.55 - 484.69 m, and 485.16 - 485.57 m. In this interval there are several quartz / sulphide vein with pyrite. At 485.24 - 485.245 m there is a quartz / sulphide veinlet that is white to light grey quartz with blebby pyrite.
487.62	487.82	0.20	GRD	GRDA	CG	This is a zone of strong light green to yellow clay alteration occurring before a quartz / sulphide vein. Right before the quartz vein there is dark green chloritic alteration as well. There is disseminated pyrite before the vein.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
487.82	487.93	0.11	VEN	VEIN	FG	Quartz / sulphide vein. There is white to light grey quartz with large blebby sphalerite, pyrite and chalcopyrite. The sphalerite is occurring in a large band and is locally associated with pyrite and chalcopyrite.
487.93	488.13	0.20	GRD	GRDA	CG	Alteration halo of a quartz / sulphide vein with strong light yellow / green clay alteration. There is local chloritic alteration in this interval as well. There is a pyrite stringer near the end of the interval. Sharp lower contact.
488.13	488.51	0.38	GRD	GRDA	CG	Zone of more fresh granodiorite with only patchy blebby weak chloritic alteration as well as moderate potassic alteration.
488.51	489.28	0.77	GRD	GRDA	CG	A mixed zone of alteration with more fresh granodiorite with blebby chloritic alteration as well as weak potassic alteration. There is also strong clay alteration that is light yellow / green in color. In the clay altered zone there is quartz veining with pyrite.
489.28	489.83	0.55	GRD	GRDA	CG	A mixed zone of clay alteration that is white to light blue to light green / yellow in color. There is moderate potassic alteration in the light blue to white clay alteration.
489.83	490.32	0.49	GRD	GRDA	CG	A zone of less atlered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact.
490.32	491.37	1.05	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color. There are a few quartz / sulphide veins in this interval. At 490.58 - 490.66 m there is a zone of 3 quartz veinlets with pyrite and sphalerite
491.37	491.88	0.51	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration and potassic alteration.
491.88	492.27	0.39	GRD	GRDA	CG	Zone of strong light yellow / green clay alteration. There is a local patch of fresh less altered granodiorite in this interval as well. At the top of the interval there is a quartz/ sulphide veinlet with pyrite.
492.27	493.45	1.18	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact.
493.45	494.63	1.18	GRD	GRDA	CG	Zone of strong clay alteration that is white to light green / yellow. Locally there is dark green chloritic alteration as well as some local weak potassic alteration. There are 3 quartz / sulphide veins in this interval with pyrite and some local sphalerite.
494.63	498.23	3.60	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are also local zones of weak to moderate light green to yellow clay alteration.
498.23	498.67	0.44	GRD	GRDA	CG	Mixed zone of alteration but predominantly light white to blue clay ateration with moderate potassic alteration. Locally there is also dark green chloritic alteration.
498.67	500.97	2.30	GRD	GRDA	CG	Zone of strong clay alteration that light yellow to green in color. There are quartz / sulphide veins throughout this interval. At 498.81 - 498.83 m there is a quartz/ sulphide vein with pyrite. Then at 499.85 - 499.86 m there is another quartz / sulphide vein with pyrite. 500.17 - 500.21 m there is a quartz vein that is brecciated and broken up.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
500.97	503.31	2.34	GRD	GRDA	CG	A mixed zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration as well as strong clay alteration that is light green to yellow in color. There are a few quartz / sulphide veinlets to stringers in this interval with pyrite and sphalerite.
503.31	504.02	0.71	GRD	GRDA	CG	Zone of clay alteration that is light green to blue and white with moderate potassic alteration. There are a few quartz / pyrite stringers throughout this interval.
504.02	505.43	1.41	GRD	GRDA	CG	Zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. Sharp lower contact. There are pyrite stringers in this interval as well as quartz veinlets.
505.43	506.80	1.37	GRD	GRDA	CG	Zone of strong clay alteration that is light green / yellow as well as white to light blue. There is moderate to strong potassic alteration. There are quartz stringers to veinlets in this interval as well as pyrite stringers in this interval.
506.80	509.96	3.16	GRD	GRDA	CG	A mixed zone of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration but there is also clay alteration that is white to light blue as well as light green / yellow.
509.96	512.12	2.16	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color as well as locally white. There is local dark green chloritic alteration with potassic alteration. There are a few quartz / sulphide veins in this interval with pyrite, sphalerite and galena.
512.12	514.13	2.01	GRD	GRDA	CG	A mixed zone of alteration with less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There is also strong clay alteration that is light yellow to green in color as well as a local zone of strong chloritic dark green alteration.
514.13	515.70	1.57	GRD	GRDA	CG	Zone of strong clay alteration that ranges from white to light blue to light green / yellow. There is also moderate potassic alteration. There are multiple quartz / pyrite stringers in this interval.
515.70	515.80	0.10	VEN	VEIN	FG	White to light grey to dark grey almost black quartz with local gouge occurring along fracture surfaces. There is cream colored carbonates occurring in this vein as well. Vein is brecciated. There is blebby fine grained pyrite that is clustered together there is also arsenopyrite.
515.80	523.02	7.22	GRD	GRDA	CG	Variable altered coarse grained granodiorite. Predominanlty we see strong clay alteration that is light yellow to green in color. There is also zones of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are quartz / carbonate stringers throughout this interval. As well there are pyrite stringers occurring in this interval. At 517.02 - 517.055 m there is a quartz / sulphide vein that hosts pyrite, arsenopyrite, sphalerite and galena.
523.02	527.27	4.25	QFP	DYK	FG	QFP dyke with clay altered phenocrysts that range in color from white to light green. Color of dyke is light green/ tan. There are also light glassy grey phenocrysts in this interval as well. Sharp upper and lower contacts of this dyke. There are also a few quartz/ sulphide veins in this interval containing - pyrite as well as a black, dull, unknown mineral associated with the pyrite. There appears to be local brecciated sections in this interval with dark grey cherty quartz.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
527.27	528.27	1.00	GRD	GRDA	CG	Altered coarse grained granodiorite that is strongly clay altered that is light green / yellow in color. At the lower contact there is disseminated pyrite. At the lower contact there is a quartz / sulphide vein. There are also pyrite stringers in this interval as well as quartz/ carbonate stringer.
528.27	528.45	0.18	VEN	VEIN	FG	Quartz / sulphide vein with white to light grey quartz. There is blebby pyrite throughout this vein with some minor chalcopyrite associated with this pyrite. There is also trace galena in this vein locally associated with the other sulphides and found beside inself. Above and below this vein there is disseminated pyrite.
528.45	529.30	0.85	FLT	GRDA	CG	Small fault zone hosted in granodiorite. The granodiorite is stronly clay altered occurring as light green / yellow. In the fault we see gouge mixed in with competent core. There is disseminated pyrite occurring at the upper and lower contacts but not in the middle of the interval. Gouge - 30% and competent core - 70%.
529.30	530.10	0.80	FLT	VEIN	FG	Quartz vein zone hosted in granodiorite as well as being faulted and broken up. Quartz is white to light to medium grey quartz with blebby pyrite and minor chalcopyrite. There is also disseminated medium grained pyrite occurring in this interval. In this interval there is a mix of gouge, rubble and comptent core.
530.10	532.42	2.32	GRD	GRDA	CG	Altered granodiorite that is coarse grained and predominantly strongly clay altered that ranges in color from light green to yellow. There are also patchy zones of weak to moderate medium green chloritic alteration with weak potassic alteration. At the upper contact there is disseminated pyrite there is also pyrite stringers occurring in this interval. There are a few quartz veins in this interval with mineralization. Sharp lower contact with dyke.
532.42	532.92	0.50	QFP	DYK	FG	QFP dyke with clay altered phenocrysts that are light grey / green in color. There are also dark grey glassy quartz phenocrysts as well. This interval is rubbled and broken up - weakly.
532.92	533.38	0.46	GRD	GRDA	CG	Small slice of altered granodiorte that is coarse grained and strongly clay altered - light green to yellow. Sharp upper and lower contacts. There is disseminated pyrite occurring in this interval.
533.38	541.09	7.71	QFP	DYK	FG	QFP dyke that is light grey / green to light green locally. The phenocrysts in this interval are clay altered and are white to light to medium green in color. We also see glassy grey quartz phenocrysts. At the lower contact we see foliated - 60 degrees tca. At the lower contact of this iterval its all broken up. There are white quartz / carbonate stringers to veinlets in this interval. At 533.96 - 534.08 m there is a small brecciated zone with dark grey quartz and parts of dyke grains mixed in. Foliated dyke starts at 540.92.
541.09	542.09	1.00	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow. At the lower contact we see moderate light pink potassic alteration. There is a local bleb of galena in this lower section as well.
542.09	542.95	0.86	GRD	GRDA	CG	Mixed zone of alteration with moderate white clay alteration as well we see moderate potassic alteration and blebby chloritic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
542.95	543.34	0.39	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green with local medium green chloritic alteration. In this zone there are 6 small quartz stringers. One has some blebby pyrite.
543.34	544.57	1.23	GRD	GRDA	CG	Zone of fresher less altered granodiorite with moderate to strong potassic alteration as well as blebby chloritic alteration. There are local fine grained, dark xenoliths that are weakly magnetic. Locally there is a pyrite stringer.
544.57	545.17	0.60	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color. There is patchy potassic alteration that is light pink.
545.17	545.39	0.22	VEN	GRDA	CG	Quartz vein zone in an altered granodiorite. There are 6 quartz veinlets to veins. There is blebby pyrite in these veins. There is also local dull black unknown mineral associated with the pyrite. The altered granodiorite is strongly clay altered that is light yellow to green.
545.39	545.87	0.48	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color.
545.87	546.38	0.51	GRD	GRDA	CG	Zone of more fresh granodiorite with weak to moderate potassic alteration with blebby chloritic alteration.
546.38	546.49	0.11	GRD	GRDA	FG	Zone of xenolith? That is fine grained with larger quartz grains floating inside it. Dark black to grey in coloration. Sharp upper and lower contacts. There is no alteration around this xenolith to suggest its a dyke.
546.49	547.37	0.88	GRD	GRDA	CG	Zone of more fresh granodiorite with moderate potassic alteration as well as blebby chloritic alteration. There is local strong clay alteration that is light yellow to green in coloration.
547.37	547.63	0.26	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow / green in coloration.
547.63	547.72	0.09	VEN	VEIN	FG	Quartz / sulphide vein that has white to light grey to medium grey to dark grey, multigenerational. There is also cream colored carbonate alteration in this vein. In this vein we see blebby pyrite as well as sphalerite. The two are associated with one another and we see sphalerite inbeween the pyrite. Pyrite is fine to medium grained and clustered together.
547.72	559.31	11.59	GRD	GRDA	CG	Zone of less altered granodiorite that has weak to moderate potassic alteration with ehd grey / green tinge with blebby chloritic alteration. There are many dark black fine grained xenoliths throughout this interval. There are multiple pyrite stringers in this interval.
559.31	559.93	0.62	GRD	GRDA	CG	Zone of strong clay alteration - in this zone its white swelling clays. There is weak potassic alteration coming in along the upper contact. There are 2 quartz veinlets occurring at the end of this interval with trace pyrite occurring along the vein selvage.
559.93	560.81	0.88	GRD	GRDA	CG	Zone of fresher granodiorite with moderate potassic alteration with a light grey/ green tinge to the core. There are a few pyrite stringers in this interval.
560.81	563.69	2.88	GRD	GRDA	CG	Zone of fresher granodiorite with moderate potassic alteration. The core is predominatly white in color.
563.69	564.64	0.95	GRD	GRDA	CG	A zone of fresher granodiorite with weak to moderate potassic alteration there is also blebby chloritic alteration.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
564.64	567.93	3.29	GRD	GRDA	CG	Zone of fresher granodiorite that is more white in color with moderate potassic alteration. There is also some chloritic alteration occurring around quartz veinlets.
567.93	568.94	1.01	GRD	GRDA	CG	Zone strong chloritic alteration with weak potassic alteration and as we go down interval the chloritic alteration becomes less.
568.94	573.26	4.32	GRD	GRDA	CG	Zone of more fresh granodiorite that is tinged light grey to white with weak to moderate potassic alteration. Local xenoliths in this interval.
573.26	575.20	1.94	GRD	GRDA	CG	Zone of fresher granodiorite with a grey/ green tinge to the core with moderate potassic alteration (medium salmon colored). Locally this interval has moderate patchy chloritic alteration.
575.20	575.45	0.25	GRD	GRDA	CG	Zone of strong clay alteration that is white to light green to yellow.
575.45	575.53	0.08	VEN	GRDA	FG	Carbonate / quartz vein that has a banded appearance of white to cream.
575.53	575.77	0.24	GRD	GRDA	CG	Zone of strong clay alteration that is white to light green / yellow.
575.77	578.50	2.73	GRD	GRDA	CG	Zone of mixed fresher granodiorite with the two different types. Both have weak to moderate potassic alteration but where they differ is that one is more grey / green and the other is white. Locally there is moderate chloritic alteration.
578.50	579.47	0.97	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow. At the upper contact we see white clay alteration as well near the top of the contact we see potassic alteration as well as patchy hematite alteration.
579.47	582.76	3.29	GRD	GRDA	CG	A mixed zone with both fresher granodiorites with a minor zone of strong clay alteration that is light green to light yellow in coloration. The upper half of the interval has the granodiorite that is tinted light grey/ green. Then the lower half is the predominantly white granodiorite. There are large xenoliths in this interval.
582.76	583.69	0.93	GRD	GRDA	CG	This interval has moderate to strong hematite alteration that is dark salmon in color.
583.69	593.64	9.95	GRD	GRDA	CG	A zone of fresher granodiorite that is predominantly white in color with weak to moderate potassic alteration. Locally in this interval there is medium chloritic alteration around quartz/ carbonate stringers. There are also xenoliths throughout this interval.
593.64	594.18	0.54	GRD	GRDA	CG	A zone of fresher granodiorite that is predominantly white in color with weak to moderate potassic alteration. Locally in this interval there is medium chloritic alteration around quartz/ carbonate stringers. There are also xenoliths throughout this interval.
594.18	600.87	6.69	GRD	GRDA	CG	A mixed zone with both fresher granodiorites the one with the light grey/ green tinge as well as the white. There is moderate potassic alteration throughout this interval.
600.87	601.10	0.23	GRD	GRDA	CG	A zone of dark green chloritic alteration. This interval has a pyrite stringer as well as a quartz and quartz / carbonate veinlets.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
601.10	607.58	6.48	GRD	GRDA	CG	A mixed zone of fresher granodiorite that is white to light green / grey in color with weak to moderate potassic alteration. There are also local zones of clay alteration that is white to light blue in coloration. In these clay altered zones we see shearing that is sub-parallel tca.
607.58	607.94	0.36	GRD	GRDA	CG	Zone of strong clay alteration that is light blue in coloration grading to a light yellow/ green as we go down interval. This is a alteration halo to the sulphide vein below.
607.94	608.18	0.24	VEN	VEIN	FG	Quartz / sulphide vein zone with 2 separate quartz veins with mineralized granodiorite seperating the two. The first is at 607.94 - 607.965 cm and is a multi-generational brecciated vein with white to light grey to dark grey quartz with cream colored carbonate alteration. There is blebby coarse grained sphalerite as well as fine to medium granined pyrite. The vein is irregular with pinching and swelling vein walls. The mineralization is occurring separate from one another. From 607.965 - 608.03 m we have a coarse grained granodiorite with light to medium green clay alteration. There is medium to coarse grained disseminated pyrite in this interval with up to 2.5% pyrite. 608.03 - 608.18 m is the other quartz / sulphide vein. From 608.03 - 608.155 m is massive sulphide - made up of pyrite, sphalerite, minor chalcopyrite as well as galena. The pyrite and the sphalerite are occurring in bands. There is a pyrite band at the start and the end of this interval with sphalerite sandwhiched inbetween. The spahlerite is 2.5 cm wide. The chalcopyrite as well as the galena is occurring in the pyrite bands. Pyrite in this interval up to 70%, sphalerite - 28%, Chalcopyrite - 2% and trace galena. At the end of this interval there is light grey to white quartz with blebby pyrite occurring disseminated in this section.
608.18	608.96	0.78	GRD	GRDA	CG	Altered coarse grained granodiorite. Strongly clay altered with with white to medium green coloration. In the lower half of the interval we see a undulating pyrite stringer to veinlet. At the lower contact there is also a quartz/ sphalerite veinlet with blebby sphalerite in the quartz.
608.96	609.19	0.23	BXA	DYK	FG	Brecciated section of qfp dyke with quartz/ carbonate veins to veinlets running throughout this section. There is local blebby pyrite occurring along a vein selvage that is occurring at the start of this interval - 2 cm wide.
609.19	609.39	0.20	VEN	DYK	FG	Brecciated section with quartz veining as well as dyke clasts mixed in. Quartz is light grey to medium grey to dark grey with some minor medium grained pyrite.
609.39	610.11	0.72	QFP	DYK	FG	Section of qfp dyke that has smaller amounts of phenocrysts - 5%. In this interval there are disseminated quartz / carbonate veinlets.
610.11	613.97	3.86	QFP	DYK	FG	Zone of QFP dyke with abundant phenocrysts - up to 40%.
613.97	614.83	0.86	QFP	DYK	FG	Zone of qfp dyke that is very similar to the upper contact were there is a significant decrease in phenocrysts. There are also pyrite stringers in this interval at the lower contact.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
614.83	615.08	0.25	BXA	VEIN	FG	Brecciated multi-generational quartz vein. The vein is predominantly shades of grey but as well there is white. Sharp upper and lower contacts. In this vein there is blebby pyrite as well as sphalerite occurring together. In this vein there are open space cavities that are ranging in size from 1 mm up to 1 cm wide.
615.08	615.16	0.08	GRD	GRDA	CG	Granodiorite that is altered and coarse grained. There is moderate medium green clay atleration. There is disseminated pyrite in this interval that is medium to coarse grained.
615.16	615.31	0.15	VEN	VEIN	FG	Quartz / sulphide vein. Quartz is white to light grey. The main concentration of sulphides is 10 cm wide and situated roughly in the middle of the vein but closer to the upper contact than the lower contact. There is blebby to massive pyrite, spahlerite as well as minor chalcopyrite and trace galena. The pyrite and spalerite occur in bands. The pyrite is is occurring at the upper and lower contacts with sphalerite in the middle. Chalcopyrite occurs with the pyrite while the galena is situated with the sphalerite.
615.31	615.46	0.15	GRD	GRDA	CG	Altered, coarse grained granodiorite. There is moderate clay alteration in this interval that is medium green to light green in color. In this interval we see blebby pyrite occurring in veinlets as well as disseminated.
615.46	615.53	0.07	VEN	VEIN	FG	White to light grey quartz / pyrite vein. In the middle of the vein we see blebby pyrite up to 7%.
615.53	615.77	0.24	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in coloration. Part of the quartz/ sulphide halo.
615.77	620.86	5.09	GRD	GRDA	CG	Zone of fresher granodiorite with blebby chloritic alteration as well as moderate potassic alteration. Locally there is some clay alteration that halos quartz/ carbonate / sulphide stringers to veinlets.
620.86	624.32	3.46	GRD	GRDA	CG	Mixed zone of alteration. Predominantly it is strong clay alteration that is light yellow / green in color but at the upper contact and in the middle there is also white to light blue clay alteration. In this zone of light blue to white clay alteration we also see moderate light pink potassic alteration. Locally there is also some dark green patchy chloritic alteration. There is a quartz vein at 621.20 - 621.24 m.
624.32	627.68	3.36	GRD	GRDA	FG	Zone of strong clay alteration that is light green / yellow there is also a fine grained apalite dyke? That is shallowly dipping and running down along core axis. Apalite dyke is light brown to tan in color with patchy red/ brown hematite alteration. This interval is locally rubbled and broken. There are also minor local brecciated zones.
627.68	628.63	0.95	GRD	GRDA	CG	Zone of strong clay alteration that is medium green in color (chloritic alteration?).

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
628.63	632.06	3.43	GRD	GRDA	CG	Mixed zone of alterations with a mix of clay and chloritic alteration occurring at the upper part of the interval with weak to moderate potassic alteration. Locally we see strong chloritic alteration coming in along fracture surfaces locally. We have patchy fresher granodiorite occurring in this interval as well with blebby chloritic alteration as well as moderate potassic alteration. We also see local zones of both white to light blue clay alteration as well as the light yellow to green coloration. There is pyrite occurring in local blebs as well as local stringers.
632.06	637.40	5.34	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in coloration we also see patchy dark green chloritic alteration as well as patchy hematite alteration. There is blebby pyrite occurring in quartz veinlets in this interval. Locally there is quartz veinlets with minor pyrite.
637.40	643.41	6.01	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow but there is also zones of strong chloritic alteration. In this interval there are 3 quartz / sulphide veins with pyrite, sphalerite as well as a local veinlet with chalcopyrite. This interval is rubbled at the lower contact.
643.41	644.00	0.59	VOL	VOLA	FG	Rubbled zone
644.00	645.21	1.21	VOL	VOLA	FG	Same as general lithology
645.21	645.29	0.08	VEN	VOLA	FG	Quartz / carbonate vein that is white and irregular in shape. There is a open space cavity in this vein.
645.29	647.22	1.93	VOL	VOLA	FG	Same as general lithology
647.22	647.41	0.19	VEN	VOLA	FG	Discontinuous quartz / carbonate vein that is irregular in space with many branches that are cross cutting the volocanics. Occurring at the lower contact there is honey brown sphalerite as well as pyrite.
647.41	648.20	0.79	VOL	VOLA	FG	Same as general lithology.
648.20	649.93	1.73	QFP	DYK	FG	Tan / grey QFP dyke with glassy grey quartz phenocryst as well as clay / carbonate altered white phenocrysts. Locally there is quartz veining cross cutting the dyke that is locally cherty looking.
649.93	650.17	0.24	GRD	GRDA	CG	Small slice of granodiorite in between the same QFP dyke. There is strong medium to dark green chloritic alteration. At the lower contact there is a 4 cm wide quartz vein that is glassy grey.
650.17	650.34	0.17	QFP	DYK	FG	Small slice of QFP dyke with a irregular lower contact with the volcanics or different dyke? That is very similar to the above volcanics. The volcanics are coming in at a very low angle tca forming a "U" shape that is sideways.
650.34	651.07	0.73	VOL	VOLA	FG	Small slice of volcanics very similar to above or a potential another dyke coming in. Light to medium grey / brown and fine grained. Throughout this interval there are carbonate stringers running throughout this interval. The lower contact is irregular and wavy like in nature. There is one pyrite / quartz / carbonate veinlet near the beginning of this interval.
651.07	651.74	0.67	QFP	DYK	FG	Buff colored QFP dyke with glassy grey quartz phenocrysts. At the lower contact there is a small slice of granodiorite. 2 - 4 cm wide. White carbonate stringers in this interval.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
651.74	652.29	0.55	GRD	GRDA	CG	Zone of altered coarse grained granodiorite that is strongly clay altered light white to light green/ yellow. Lower contact appears brecciated. In this interval there are also quartz stringers to veinlets with local blebby pyrite.
652.29	652.96	0.67	QFP	DYK	FG	Buff colored QFP dyke with glassy grey quartz phenocryts as well as white clay altered
652.96	653.84	0.88	GRD	GRDA	CG	Zone of strong clay alteration
653.84	654.83	0.99	GRD	GRDA	CG	Zone of moderate to strong chloritic alteration. The first half of this interval has moderate to strong potassic alteration which we lose as we go down interval.
654.83	657.15	2.32	GRD	GRDA	CG	Zone of strong clay alteration.
657.15	661.27	4.12	GRD	GRDA	CG	Zone of mixed alterations we have strong clay alteration as well as zones of moderate to strong chloritic alteration with moderate potassic alteration. There a few quartz veins to veinlets throughout this interval.
661.27	663.39	2.12	GRD	GRDA	CG	Zone of fresher granodiorite that is tinged light grey to green in color with moderate potassic alteration.
663.39	668.36	4.97	QFP	DYK	FG	same as general lithology
668.36	670.65	2.29	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color. Also in this interval we see zone of strong dark green chloritic alteration.
670.65	674.96	4.31	GRD	GRDA	CG	Zone of fresh granodiorite with moderate potassic alteration and blebby chloritic alteration.
674.96	678.18	3.22	GRD	GRDA	CG	Zone of strong clay alteration that is light green to yellow in color. There are also local zones of strong chloritic alteration with moderate potassic alteration with this chloritic alteration.
678.18	678.70	0.52	BXA	GRDA	FG	Zone of granodiorite that has quartz brecciation coming in. The quartz is white to light to medium grey in color. There is blebby pyrite and sphalerite occurring locally. There is a minor rubble zone at the lower contact and then there is brecciation with gouge along the fracture surfaces.
678.70	684.63	5.93	GRD	GRDA	CG	Mixed zone of alteration with zones of strong clay alteration that is light yellow to green in color but there is also zones of dark green chloritic alteration with weak to moderate potassic alteration. There is also local patchy hematite atleration.
684.63	684.75	0.12	QFP	DYK	FG	White to light buff qfp dyke.
684.75	685.12	0.37	VEN	DYK	FG	Dark grey brecciated vein with light grey to white quartz clasts / veinlets to stringers. In the middle of this interval we see a zone of 6 cm of gouge.
685.12	685.32	0.20	QFP	DYK	FG	Same as general lithology
685.32	685.50	0.18	GRD	VEIN	FG	Mixed zone of granodiorite as well as quartz brecciation with dark grey to white quartz.
685.50	687.83	2.33	GRD	GRDA	CG	Coarse grained altered granodiorite that is strongly clay altered that is light green to light yellow in color. Throughout this interval there are quartz / sulphide veinlets that contains pyrite, sphalerite as well as galena.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
687.83	689.08	1.25	VEN	VEIN	FG	Quartz / sulphide vein zone with dark grey to light grey to white quartz. Predominantly the sulphides are pyrite but there is also some trace black jack sphalerite. Pyrite as well as sphalerite is belbby. Pyrite - up to 6%.
689.08	693.50	4.42	GRD	GRDA	CG	Mixed zone of alterations with strong clay alteration that is light green to yellow in color found around quartz veining with sulphides as well there is fresher granodiorite with a light grey / green tinge to core with moderate potassic alteration. There are a few quartz / sulphide veins in this itnerval with pyrite and sphalerite.
693.50	698.75	5.25	GRD	GRDA	CG	Zone of strong clay alteration that is light yellow to green in color. There are weak local zones of the fresher granodiorite. At the lower contact of this interval there is broken and rubbled core. There are carbonate stringers to veinlets throughout this interval.
698.75	701.24	2.49	GRD	GRDA	CG	Mixed zone of alteration but predominantly dark green chloritic alteration with moderate light pink potassic alteration. There is also zones of strong clay alteration that is light green to yellow in color. There is also some minor rubble in this interval.
701.24	704.27	3.03	GRD	GRDA	CG	Zone of fresher granodiorite that is light grey / green with mooderate potassic alteration as well as blebby chloritic alteration. There are quartz / carbonate veinlets in this interval.
704.27	705.85	1.58	GRD	GRDA	CG	Zone of strong clay alteration that light green to yellow coloration there is also zones of moderate to strong chloritic alteration that is medium green in color. At the lower contact there is light blue clay alteration with moderate potassic alteration.
705.85	709.46	3.61	GRD	GRDA	CG	A mixed zone of alterations with fresher granodiorite with a light grey/ green tinge with moderate potassic alteration. There is also zones of strong clay alteration that is light yellow to green. These zones are found around quartz / carbonate veinlets. There are local zones of chloritic alteration.
709.46	715.57	6.11	GRD	GRDA	CG	A zone of fresher granodiorite with weak potassic alteration with blebby chloritic alteration. There is minor white clay alteration in local areas.
715.57	716.65	1.08	GRD	GRDA	CG	Mixed zone of altered granodiorite that has strong clay alteration that is light green to yellow in color as well we see moderate chloritic alteration coming in at the upper and lower contacts. In the middle of this interval there is a quartz / pyrite vein.
716.65	716.72	0.07	VEN	VEIN	--	small 3cm true width qtz-sulphide-feldspar veinlet at 48 deg tca. Quartz semi-translucent, light grey, 12% py with minor medium brown sphal and trace Gal, minor dark grey fine mineral around py, possibly sulphosalt. Minor feldspar in vein, light cream white, occuring in central portion of vein. Alteration halo extending ~20 cm to either side. Light to medium green-cream clay.
728.60	728.70	0.10	APL	DYK	FG	10cm brown-ish orange-ish red aplite dyke, fine grained with minor disseminated Py

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
729.69	733.79	4.10	SIL	DYK	FG	Mottled mess of silica dyke material, sucrosic textrue, mainly quarts, clasts of med grained GRD, generally containing disseminated Py. Secondary biotite occuring in wavy bands of alteration sometimes seem surrounding GRD clasts (scavanged fe/mg from mafic minerals from GRD inclusions/clasts within dyke?). Lower ~15cm is silica altered with ~2% disseminated by near contact with veinlet
733.79	733.84	0.05	VEN	VEIN	--	small 4cm true width veinlet at 80 deg tca. 35% py, qtz with minor grey-cream coloured carboante.
733.84	734.00	0.16	SIL	DYK	FG	Silica dyke material, sucrosic textrue, mainly quarts, trace disseminated Py.
740.94	741.10	0.16	BXA	VEIN	--	vein breccia at 15 deg tca, cm true width. Breccia matrix hosted in bluish grey carbonate, bound by veinlets of calcite, minor pinkish carbonate. Minor py in bxa, 3%
741.10	755.03	13.93	GRD	GRDA	CG	medium to coarse grained with pervasive weak chlorite alteration and potassic alteration, patchy clay alteration around small veinlets of qtz carbaonte, sometimes with weak secondary chlorite alteration overprinting clay alteration. 1cm veinlet at 744m with qtz-carb and minor py. 746.3m small 3mm veinlet with qtz and minor py. 747m 8mm chalcedonic qtz band, med light grey, and 1cm cream white carboante veinlet, both veinlets with very trace py. Small brecciated interval at 747.1-747.15m. 747.15-747.3 chalcedony flooded breccia with trace py and some secondary bands of grey chalcedonic qtz cutting through bxa, minor carbaonte in vineing/infill.
755.03	755.60	0.57	SIL	DYK	FG	dark grey brown sucrosic siliceous dyke. Somewhat similar to other siliceous dyke a few units above.
755.60	761.17	5.57	GRD	GRDA	CG	coarse grained GRD, pervasive weak potassic, weak siliceous, and moderate chlorite alteration. Some darker fine grained xenoliths, weak to moderately magnetic, pervaseve moderate chlorite alteration. 758.0-758.2m interval of stronger chlorite alteration, still med grained grd, with weak magnetic (secondary magnetite?, altered larger xenolith?). Clay alteration increasing in bottom 2m of interval proximal to veining below. Rare small stringers with minor py
761.17	761.81	0.64	VEN	GRDS	CG	Vein zone in crackled medium grianed, altered GRD comprized of grey chalcedonic quartz veinlets and grey chalcedonic breccia, maybe 20% vein/infill material over interval, containing Py, Sphal, Gal, Aspy. Some open cavities remain in breccia. Chalcedonic veins oriented at 73 deg tca.
761.81	761.86	0.05	VEN	VEIN	--	Qtz Py vein, 80 deg tca, light grey quartz with pale silver grey py, 60% over interval, no other sulphides, no carbonate. Moderate white clay alteration halo extneding ~10cm to either side of vein.
761.86	762.54	0.68	GRD	GRDA	CG	Pervasive clay chlorite silica altered grd between small mineralized vienlets. Trace small py stringers cutting through at similar orientations to veins above and below. Light green grey colour.
762.54	762.69	0.15	VEN	VEIN	--	three smaller viens within this interval, Qtz-siderite-ankerite/dolomite vienlets with py and trace sphal, 15% Py over interval. Moderate white-greenish clay alteration halo extends 5 cm into altered grd on both sides, with some py in alt halo. Veins at 756-80 deg tca.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
762.69	769.40	6.71	GRD	GRDA	CG	Coarse to medium grianed GRD. Pervasive weak chlorite alteration of mafic minerals and potassic alteration of feldspars throughout interval. Upper portions of interval overprinted by white clay alteration down to 766.5m.
769.40	775.40	6.00	GRD	GRDS	MG	Sheeted veinlets in pervaisvley weakly potassically altered, overprinted by weak to moderate clay alteration, medium grained GRD. Patchy chlorite and silica alteration halos around some veinlets of Qtz Py-Carb. Veinelts no owider than 4mm, orientations variable.
775.40	775.93	0.53	BXA	VEIN	--	brecciated medium grained GRD, cut by bands of light grey chalcedonic quartz with bands of mineralization, py-sphal-gal. Square crystals of a soft light grey-white mineral in some chalcedony filled cavities, possibly barite.
775.93	783.53	7.60	GRD	GRDA	MG	Medium grained GRD. Pervasively clay-chl alteration overprinting pervasive weak potassic alteration. Minor veinlets/stringers of Qtz-py. Small rhyolite dykes cutting trhough at 778m and 779m, both ~3cm true width. Interval at 779.6m of small veinlets and fractures infilled with medium grey chalcedonic qtz with py and minor sphal. Slightly rubbly interval at 780.4-780.6m.
783.53	783.61	0.08	VEN	VEIN	--	5cm true width vein at 65 deg tca with Qtz Carb Py and minor Cpy.
783.61	787.33	3.72	GRD	GRDA	MG	Pervasive weak chlorite-clay alteration overprinting weak potassic alteration in medium grianed GRD. Rare small >3mm veinlets of qtz-py-carb. Minro disseminated Py in vein halos, associated with biotite alterring to pale grey sericite. .
787.33	788.40	1.07	GRD	GRDS	MG	Small sheeted vein in hanging wall contact with dyke. Milky grey quarts and cream carboante with minor sulphide mineralization. Over interval 3% Py with minor Sphal and trace Gal. Hosted in med grained GRD with alteration similar to that observed in unit above
788.40	788.50	0.10	VEN	VEIN	--	Two veins at hanging wall contact with Dyke, 2cm true width and 4cm true width. Brecciated dark grey silicified section at contact with dyke, 1cm thick. All structures at 78 deg tca. Mineralization in veins is only py, crackled and rehealed with qtz. No other sulphides observed
788.50	813.63	25.13	QFP	DYK	FG	Felsic QFP dyke, medium buff green grey. Abundant phenocrysts, some intervals pheno poor, but generally abundant pheno. Qtz larger than feld. 13cm fractured interval around 1cm mineralized veinlet at 789.7 containing 40% py over 1cm interval, 60 deg tca. Qtz-Py vein at 792.3m, 72 deg tca, 6cm true width, 55% py over interval. Trace other very small stringers with minor Py throught rest of dyke interval.
813.63	857.69	44.06	FEL	DYK	FG	Fine grained felsic unit, abundant <1mm feldspar crystals in fine grained translucent matrix, clast supported. Dissemianted Py throughout unit, occuring in small blebs, ~1.5% Py over interval. Alteration patchy, clay or silica alteration oround small veinlets or fractures. Occasional small veinelts containing mainly Py, but occasionally with Gal and Sphal, >5mm wide. Veinlets broken out in secondary lith.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	0.30	0.30	CAS	--	Casing no core recovered.							
0.30	2.68	2.38	GRD	--	OVB - there is 4 cm of rubbled and re-drilled core at the start of the interval and then we get into a competent piece of core for 50 cm and then we get into rubble and residual soil. Then we have some more competent core and another section of rubbled up core with residual soil.							
						LT	GY	PH				
						LT	PK					
						LT	WH					
						DK	BL					
						DK	GN					
2.68	32.09	29.41	GRD	CG	A coarse grained fairly unaltered granodiorite. There is patchy blebby chlorite as well there is weak to moderate (light pink to salmon colored) potassic alteration. There is limonite alteration coming in along fracutre surfaces as well locally we see white clay alteration. There is chlorite as wel as calcite coming in along fracture surfaces. This interval has disseminated black biotite.							
						LT	WH		POT	2I		
						MD	OR					
						DK	BK					
						LT	PK					
						LT	GY	PH	CHL	2I	Bi	0.5
						DK	GN					
32.09	32.22	0.13	VEN	FG	Quartz vein with sulphides. Dark grey and light grey quartz with blebby pyrite, sphalerite and galena. The sulphides are disseminated throughout this vein.							
											Gn	0.1
											Py	1
											Sp	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
32.22	87.81	55.59	GRD	CG	Coarse grained fairly unaltered granodiorite with only weak to moderate potassic alteration as well as blebby chloritic alteration. The altered zones are stronly clay altered that are light white to light blue with moderate potassic alteration. There are also zones of light green / yellow clay alteration. There are chloritic fractures throughout this interval. There are also large chloritic blebs throughout this interval. Locally there is pyrite occurring along fracture surfaces at 41.88 - 41.95 m. This interval has black biotite disseminated.							
						LT	PK					
						DK	GN					
						LT	WH		POT	2I		
						LT	GN	PH	CHL	2I	Bi	0.5
						LT	YW		CLY	2I	Py	0.1
87.81	89.92	2.11	BXA	FG	Brecciated QFP dyke that has limonite coming in along fracute surfaces. Dyke is light to medium grey in color. Locally this interval is very gougy with small clasts floating in the gouge.							
						LT	GY	PO	LIM	2I		
						MD	GY					
89.92	114.37	24.45	QFP	FG	Light grey / green to medium brown with local sections of medium brown / purple due to pervasive hematite alteration. At the upper contact of this dyke we see local foliation texture - 60 degrees tca. The upper portion of this interva is rubbled and broken up. Phenocrysts in this interval are clay altered there is also unaltered glassy grey quartz phenocrysts. Theres a local brecciated zone at 100.33 - 100.4 m. This dyke is foliated at the lower contact as well - 60 degrees tca							
						LT	GY	PO	CLY	2I		
						LT	GN					
						DK	BN					
						DK	PU					
						LT	BF					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
114.37	140.86	26.49	GRD	CG	Variably altered coase grained granodiorite with zones of dark green chloritic alteration with weak to moderate potassic alteration. There is also light green / yellow zones of strong clay alteration. In addition there are zones of white to light blue clay alteration with moderate (light pink) potassic alteration occurring with it.							
						LT	YW					
						LT	BL					
						LT	WH					
						DK	GN		POT	3I		
						LT	PK		CLY	3I		
						LT	GY	PH	CHL	3I		
						MD	GN					
140.86	148.85	7.99	QFP	FG	QPF dyke with much small phenocrysts than normal. In this interval they have been clay altered (white). There is no quartz phenocrysts in this interval. This interval is light grey in color to locally dark purple in color. There is fracturing throughout this interval. There is slight brecciation at the upper contact at 141.0 - 141.07 m. The lower contact is also brecciated and gougy.							
						LT	GY	PO	CLY	2I		
						DK	PU		HEM	3I		
						DK	OR					
148.85	181.01	32.16	GRD	CG	Variably altered coase grained granodiorite with zones of dark green chloritic alteration with weak to moderate potassic alteration. There is also light green / yellow zones of strong clay alteration. In addition there are zones of white to light blue clay alteration with moderate (light pink) potassic alteration occurring with it. There are also zones of less altered granodiorite with moderate to strong potassic alteration. There is black biotite throughout this interval.							
						LT	PU					
						DK	BK					
						LT	PK					
						DK	GN		CLY	2I		
						LT	WH		CHL	2I		
						LT	GY	PH	POT	3I	Bi	0.5

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	YW					
181.01	181.16	0.15	VEN	FG	Quartz / sulphide vein. The quartz is white to light grey with blebby sulphides - pyrite, galena and sphalerite. There is also light white to cream colored carbonate in this vein.							
											Py	1.5
											Gn	1
											Sp	2
181.16	183.00	1.84	GRD	CG	Zone of strong clay alteration that is light yellow to green in color. There is local brecciation with gouge occurring along fracture surfaces. There is also a veinlet of black tourmaline? Along a breccia zone. Its also occurring at the lower contact as blebs. There is also coarse grained pyrite.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	YW				To	0.1
						LT	GY					
183.00	183.64	0.64	VEN	FG	Quartz / calcite vein. The vein is white to cream colored there is also black tourmaline occurring in local clasts associated with pyrite.							
						LT	WH				Py	0.1
						LT	CR				To	0.5
183.64	197.30	13.66	GRD	CG	Variably altered granodiorite with zones of strong clay alteration that is white to light green/ yellow. There are also zones of blebby chloritic as well as a more fresh granodiorite that is weakly chloritic with moderate potassic alteration. At the lower contact there is also strong white clay alteration with moderate potassic alteration.							
						MD	PK					
						LT	GN	PH	CHL	3I	Py	0.1
						LT	WH					
						MD	GN					
						LT	YW		CLY	3I	Gn	0.1
						LT	GY		POT	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
197.30	198.51	1.21	GRD	CG	Small fault zone hosted in granodiorite. Zone is strongly clay altered that is light green / yellow in color. This fault is predominantly rubble with some minor gouge. Rubble - 90% and gouge - 10%.							
						LT	GN	PH	CLY	3I		
						LT	YW					
						LT	WH					
198.51	225.63	27.12	GRD	CG	Variably altered granodiorite with zones of strong clay alteration that is white to light green/ yellow. There are also zones of blebby chloritic as well as a more fresh granodiorite that is weakly chloritic with moderate potassic alteration. At the lower contact there is also strong white clay alteration with moderate potassic alteration.							
						LT	GN		CLY	3I		
						LT	PK					
						LT	WH		POT	3I		
						LT	GY	PH	CHL	3I		
						DK	GN					
225.63	225.86	0.23	QFP	FG	Small QFP dyke? Or brecciated zone? The matrix is fine grained and light to medium grey with some clay altered phenocrysts as well as light grey glassy phenocrysts. Sharp upper and lower contacts. There is also a wall rock chunk in this zone that is strongly clay altered granodiorite.							
						MD	GY					
						LT	GY	PO	CLY	2I		
225.86	237.61	11.75	GRD	CG	Variably altered granodiorite with zones of more fresh granodiorite with moderate to strong potassic alteration with weak blebby chlorite. There is also zones of strong light green / yellow clay alteration - usually around quartz veining. There is also zones of moderate chloritic alteration with potassic alteration. There are local rubble zones.							
						LT	GN					
						LT	PK					
						LT	YW					
						MD	GN		POT	3I		
						MD	PK	PH	CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN		CLY	3I		
237.61	238.12	0.51	VEN	FG	Dark grey to light grey to white quartz that is irregular in shape. There is white carboante occurring along the vein selvages. There is blebby pyrite, sphalerite and galena.							
											Py	1.5
											Sp	3
											Gn	0.1
238.12	239.80	1.68	GRD	CG	Zone of strong clay alteration that is light green to yellow. There is also a local zone of dark green chloritic alteration. There is a quartz/ sulphide veinlet at 238.65 - 238.66 m that has blebby sphalerite and galena as well as fine grained pyrite.							
						DK	GN				Py	0.1
						LT	GN	PH	CLY	4I	Sp	0.1
						LT	YW		CHL	1I	Gn	0.1
239.80	241.47	1.67	BXA	CG	Breccia zone hosted in altered granodiorite. There is a quartz / sulphide vein at 240.73 - 240.80 m. That is light grey to dark grey to white quartz with blebby pyrite, galena and sphalerite. After 241.08 m we see a change from the clay alteration to dark green chloritic alteration.							
						LT	WH					
						DK	GN				Sp	0.1
						LT	GN				Py	0.1
						LT	YW				Gn	0.1
241.47	269.74	28.27	GRD	CG	Variably altered granodiorite with zones of less altered granodiorite that has blebby chloritic alteration as well moderate to strong potassic alteration. There is also zones of strong clay alteration that is light yellow/ green in color. There is also zones of strong dark green chloritic alteration. The final alteration is strong clay alteration that is white to light blue with moderate to strong potassic alteration.							
						LT	GY	PH	CLY	3I		
						LT	GN		CHL	3I		
						LT	YW		POT	3I		
						LT	PK					
						DK	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BL					
269.74	271.44	1.70	GRD	CG	Small fault zone that is rubbled up with a large competent section that is 0.40 cm wide. In this competent section of core there is a shallowly dipping quartz vein that is white with open space cavities that are infilled with re-crystallized quartz. This zone has moderate clay alteration with moderate chloritic alteration. There is local chlorite along fracture surfaces as well as patchy hematite.							
						LT	GN	PH	CLY	3I		
						MD	GN		CHL	3I		
						LT	GY					
271.44	275.62	4.18	GRD	CG	Altered granodiorite that has strong patchy dark green chloritic alteration as well as strong patchy hematite alteration. At the lower contact we strong light yellow to green clay alteration. There are two quartz veinlets in this interval with black blebby tourmaline?							
						DK	GN	PH	CHL	4I		
						LT	GY					
						DK	RD					
						MD	GN		HEM	4I		
						DK	PU					
275.62	276.02	0.40	BXA	CG	Altered granodiorie that is brecciated with gouge occurring along the fracturing.							
						LT	GN		CHL	1I		
						LT	GY					
						DK	GN					
276.02	276.96	0.94	VEN	CG	Altered granodiorite with a grey fine grained cherty looking quartz vein running throughout this interval. There are also quartz / sulphide veinlets that are cross cutting the grey quartz with blebby pyrite and sphalerite.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	WH				Sp	0.1
						MD	GY					
276.96	277.16	0.20	VEN	FG	Irregular quartz vein that is light grey to white quartz with white carbonate along the vein selvages. There is also blebby pyrite, galena as well as spalerite. There is also open space cavities infilled with barite. Strong sphalerite in this vein that is infilling most of the vein - black jack as well as local dark brown sphalerite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	BL					
						LT	WH				Sp	5
						LT	BF				Py	0.5
						LT	GY				Gn	0.5
277.16	295.24	18.08	GRD	CG	Variably altered, coarse grained granodiorite. There are zones of strong clay alteration that is light yellow to green. There are also zones of more fresh granodiorite with medium green chloritic alteration with moderate potassic alteration. There also zones of strong chloritic and potassic alteration. There is also strong clay alteration that is light blue to white in color with moderate potassic alteration. There is a local rubble zone as well as local patchy pervasive hematite.							
						MD	GN	PH	CLY	2I		
						DK	GN		CHL	4I		
						LT	GN		POT	3I		
						LT	YW					
						LT	WH					
						LT	BL					
						LT	PK					
						LT	GY					
295.24	295.65	0.41	GRD	FG	Irregular quartz vein hosted in altered granodiorite. Quartz is light grey to white with buff colored carbonate alteration along the vein selvages. The vein has blebby galena and pyrite.							
											Gn	2
											Py	0.5
295.65	299.39	3.74	GRD	CG	Variably altered granodiorite. There is strong medium green clay alteration to light yellow. There is quartz veinlets throughout this section. There is also a zone of less altered granodiorite with blebby chloritic staining as well as moderate potassic alteration. In this section we see dark green chloritic alteration along fracture surfaces. At the lower contact there is a quartz / sulphide vein that is running down core axis has blebby pyrite/ sphalerite.							
						LT	YW		CLY	3I	Sp	0.1
						LT	PK					
						DK	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	PH	CHL	3I	Py	0.1
						MD	GN					
299.39	302.03	2.64	GRD	CG	Fault zone hosted in altered granodiorite. There is rubble with minor gouge as well as some competent core. Rubble - 40%, Gouge - 30% and competent core - 30%. In this granodiorite we see blebby chloritic alteration as well as moderate potassic alteration. There is local blebby pyrite occurring along fracture surfaces.							
						LT	GN	PH	CHL	2I	Py	0.1
						LT	PK		POT	2I		
						LT	WH		CLY	2I		
302.03	321.12	19.09	GRD	CG	Variably altered, coarse grained granodiorite with zones of strong clay alteration occurring in white to light blue as well as zones of light green to yellow with quartz veining throughout this alteration zone. In zones of light blue / white clay alteration we see moderate light pink potassic alteration. The last alteration zone is a more fresh granodiorite that has moderate potassic alteration and green chloritic staining.							
						LT	YW					
						LT	BL	PH	CLY	4I	Py	0.1
						LT	PK		CHL	2I	Gn	0.1
						DK	GN		POT	2I	Sp	0.1
						LT	WH					
						LT	GN					
321.12	322.16	1.04	VEN	CG	A mixed zone with altered granodiorite that is strongly clay altered light yellow to green as well as local quartz veining or silica flooding coming in along fracture surfaces. There is also local brecciation at 321.23 - 321.48 m							
						LT	GY					
						MD	GY					
						LT	GN		SIL	3I		
						LT	YW		CLY	3I		
322.16	322.67	0.51	BXA	CG	Small zone of breccia with gouge along fracture surfaces.							
						LT	GN					
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
322.67	335.48	12.81	GRD	CG	A mixed zone of altered granodiorite with strong clay alteration that is light green to yellow / grey pervasively. There is also blebby patchy dark green chloritic alteration. In the chloritic zones we see light pink/ salmon colored potassic alteration. There is white quartz veining occurring at the top of the interval and then as we go down interval there is a local zone of cherty medium grey quartz veining at 328.40 - 330.0 m. At the end of the interval we see a change to white to light blue clay alteration with moderate potassic alteration.							
						LT	GN	PH	CLY	5I	Py	0.1
						LT	YW		CHL	2I	Sp	0.1
						DK	GN		POT	2I		
						LT	PK					
						LT	GY					
335.48	336.47	0.99	GRD	CG	Small fault hosted in altered granodiorite. This fault is mostly made up of sand sized grains of granodiorite. There is also local rubble as well as minor competent core. There is dark green chloritic alteration with moderate light pink potassic alteration. Sand sized grains - 75%; Rubble - 15%; and competent core - 10%.							
						LT	WH					
						DK	GN	PH	CHL	3I		
						MD	PK		POT	3I		
336.47	365.76	29.29	GRD	CG	Variably altered granodiorite with differing alteration zones. There is a more fresh/ less altered granodiorite that has weak to moderate potassic alteration as well there is black disseminated biotite in this zone. There are also zones of strong light yellow / green clay alteration. Near these zones there is also light green chloritic alteration with moderate potassic alteration. There are also local zones of minor dark green chloritic alteration with moderate potassic alteration.							
						LT	WH					
						LT	PK					
						DK	BL		POT	3I		
						LT	GY	PH	CHL	2I	Bi	0.1
						LT	GN		CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
365.76	367.83	2.07	GRD	CG	Fault hosted in more fresh granodiorite. There is weak to moderate potassic alteration. As well there is moderate calcite along fracture surfaces in this interval. Competent core - 65%, Rubble - 20% and gouge - 15%.							
						LT	PK	PH	POT	2I		
						DK	BL		CHL	2I		
						LT	GY					
						LT	WH					
						DK	GN					
367.83	402.98	35.15	GRD	CG	Variable altered, coarse grained granodiorite but its predominantly a less altered granodiorite with blebby weak chloritic alteration as well as weak to moderate potassic alteration. There are also zones of light green/ yellow clay alteration usually occurring around quartz veins. There are also zones with strong chloritic alteration in the less altered granodiorite. The final alteration zone is strong white to light blue clay alteration with moderate potassic alteration. In this interrval there is hematite alteration coming in along fracture surfaces as well as local pervasive alteration. This interval has local fine grained, dark green chloritic xenoliths.							
						LT	PK		CHL	2I		
						DK	RD					
						DK	PU					
						DK	GN		HEM	2I		
						LT	GY	PH	POT	2I		
						DK	BK		CLY	1I		
402.98	429.38	26.40	GRD	CG	Fault hosted in altered granodiorite. The granodiorite is predominantly chlorite altered as well as patchy hematite staining. After 418 m we see a change in alteration to a strong light blue clay alteration with moderate potassic alteration. This fault zone is locally brecciated as well it has gouge and rubble. Local slicken lines - rake - 60 degrees tca. Rubble - 40%, Breccia/ gouge - 30%, and Competent core - 30%. There is a few quartz / sulphide veins in this interval that contain pyrite, sphalerite as well as some trace chalcopyrite.							
						LT	GN	PH	HEM	2I	Py	0.1
						LT	BL		CHL	3I	Sp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	WH					
						DK	GN					
						DK	PU					
429.38	460.25	30.87	GRD	CG	Variable altered, coarse grained granodiorite. There are zones of less altered granodiorite except for blebby chloritic alteration as well as weak to moderate potassic alteration. We also see zones of strong clay alteration that range from white to light blue in color. As well we see light green/ yellow clay alteration. There is also zones with moderate to strong chloritic alteration with or without moderate potassic alteration. In this interval we also have hematite coming in along fracture surfaces locally. There is a large shear in this interval at 439.34 - 440.44 m that is running sub parallel tca. This interval has a few small quartz veins with mineralization.							
						LT	GN					
						LT	YW					
						LT	BL					
						LT	PK		POT	2I		
						DK	GN	AN	CHL	2I		
						LT	GY	PH	CLY	2I		
						LT	WH					
460.25	477.14	16.89	QFP	FG	QFP dyke that is light green / buff in color to dark brown in color with local with patchy red / brown. The phenocrysts in this interval are clay altered and white to light/ medium green. There are also glassy grey phenocrysts as well. There are white quartz veining occurring throughout this interval (not mineralized). Sharp upper and lower contact with granodiorite. At both contacts the granodiorite is un-altered.							
						LT	GN	PO	CLY	2I		
						LT	BF					
						DK	BN					
						DK	RD					
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
477.14	487.82	10.68	GRD	CG	Variably altered, coarse grained granodiorite. Predominantly we see a fresher less altered granodiorite that has patchy chloritic alteration that is weak as well as weak to moderate potassic alteration. Another alteration zone has strong clay alteration that is light yellow to greenusually occurring around quartz veining. As well we see localy as strong clay alteration that is white to light blue with weak potassic alteration associated with it as well. In the fresher granodiorite we see disseminated black biotite. There are quartz / sulphide stringers occurring in this interval. There are xenoliths occurring throughout this interval as fine grained and dark green.							
						LT	WH	PA	CHL	2I	Py	0.1
						LT	BL		POT	3I		
						LT	PK		CLY	2I		
						DK	GN					
						LT	GY					
487.82	487.93	0.11	VEN	FG	Quartz / sulphide vein. There is white to light grey quartz with large blebby sphalerite, pyrite and chalcopyrite. The sphalerite is occurring in a large band and is locally associated with pyrite and chalcopyrite.							
						LT	WH				Sp	4
						LT	GY				Py	3
											Ch	0.1
487.93	515.70	27.77	GRD	CG	Variably altered, coarse grained granodiorite. There is a mix of alterations in this interval. There are zones of strong clay alteration that is light green to yellow in color and is predominatly occurring around quartz veining. There is more fresh granodiorite with blebby weak chloritic alteration as well as weak to moderate potassic alteration. The final alteration is strong clay alteration that is white to light blue in color with moderate potassic alteration with it. There are multiple quartz / sulphide veins in this interval.							
						LT	GY	PH	CHL	2I	Py	0.1
						LT	PK		POT	2I		
						DK	BK		CLY	3I		
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN					
						LT	BL					
515.70	515.80	0.10	VEN	FG	White to light grey to dark grey almost black quartz with local gouge occurring along fracture surfaces. There is cream colored carbonates occurring in this vein as well. Vein is brecciated. There is blebby fine grained pyrite that is clustered together there is also arsenopyrite.							
						DK	BK					
						LT	WH				Py	0.5
						MD	GY				As	0.1
						LT	GY					
						DK	GY					
515.80	523.02	7.22	GRD	CG	Variable altered coarse grained granodiorite. Predominanlty we see strong clay alteration that is light yellow to green in color. There is also zones of less altered granodiorite with blebby chloritic alteration as well as weak potassic alteration. There are quartz / carbonate stringers throughout this interval. As well there are pyrite stringers occurring in this interval. At 517.02 - 517.055 m there is a quartz / sulphide vein that hosts pyrite, arsenopyrite, sphalerite and galena.							
						LT	PK				Sp	0.1
						MD	GN		POT	2I	Gn	0.1
						LT	GN	PH	CLY	4I	Py	0.3
						LT	YW		CHL	2I	As	0.1
523.02	527.27	4.25	QFP	FG	QFP dyke with clay altered phenocrysts that range in color from white to light green. Color of dyke is light green/ tan. There are also light glassy grey phenocrysts in this interval as well. Sharp upper and lower contacts of this dyke. There are also a few quartz/ sulphide veins in this interval containing - pyrite as well as a black, dull, unknown mineral associated with the pyrite. There appears to be local brecciated sections in this interval with dark grey cherty quartz.							
						MD	GN	PO	CLY	2I	Py	0.1
						LT	TN					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
527.27	528.27	1.00	GRD	CG	Altered coarse grained granodiorite that is strongly clay altered that is light green / yellow in color. At the lower contact there is disseminated pyrite. At the lower contact there is a quartz / sulphide vein. There are also pyrite stringers in this interval as well as quartz/ carbonate stringer.							
						LT	GN	PH	CLY	4I	Py	0.5
						LT	YW					
						LT	GY					
528.27	528.45	0.18	VEN	FG	Quartz / sulphide vein with white to light grey quartz. There is blebby pyrite throughout this vein with some minor chalcopyrite associated with this pyrite. There is also trace galena in this vein locally associated with the other sulphides and found beside inself. Above and below this vein there is disseminated pyrite.							
						LT	GY				Cp	0.5
						LT	WH				Py	10
											Gn	0.1
528.45	529.30	0.85	FLT	CG	Small fault zone hosted in granodiorite. The granodiorite is stronly clay altered occurring as light green / yellow. In the fault we see gouge mixed in with competent core. There is disseminated pyrite occurring at the upper and lower contacts but not in the middle of the interval. Gouge - 30% and competent core - 70%.							
						LT	GN					
						LT	YW					
						LT	GY	PH	CLY	4I	Py	0.5
529.30	530.10	0.80	FLT	FG	Quartz vein zone hosted in granodiorite as well as being faulted and broken up. Quartz is white to light to medium grey quartz with blebby pyrite and minor chalcopyrite. There is also disseminated medium grained pyrite occurring in this interval. In this interval there is a mix of gouge, rubble and comptent core. Gouge - 10%, Rubble - 40%, and Competent core - 50%.							
						LT	WH				Py	5
						LT	GY				Ca	0.5
						MD	GY					
						LT	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
530.10	532.42	2.32	GRD	CG	Altered granodiorite that is coarse grained and predominantly strongly clay altered that ranges in color from light green to yellow. There are also patchy zones of weak to moderate medium green chloritic alteration with weak potassic alteration. At the upper contact there is disseminated pyrite there is also pyrite stringers occurring in this interval. There are a few quartz veins in this interval with mineralization. Sharp lower contact with dyke.							
						LT	GN	PH	CLY	4I	Py	0.1
						LT	YW		CHL	1I		
						LT	GY		POT	1I		
532.42	532.92	0.50	QFP	FG	QFP dyke with clay altered phenocrysts that are light grey / green in color. There are also dark grey glassy quartz phenocrysts as well. This interval is rubbled and broken up - weakly.							
						LT	TN					
						LT	GY	PO	CLY	2I		
532.92	533.38	0.46	GRD	CG	Small slice of altered granodiorte that is coarse grained and strongly clay altered - light green to yellow. Sharp upper and lower contacts. There is disseminated pyrite occurring in this interval.							
						LT	GY					
						LT	GN	PH	CLY	4I	Py	0.5
						LT	YW					
533.38	541.09	7.71	QFP	FG	QFP dyke that is light grey / green to light green locally. The phenocrysts in this interval are clay altered and are white to light to medium green in color. We also see glassy grey quartz phenocrysts. At the lower contact we see foliated - 60 degrees tca. At the lower contact of this iterval its all broken up. There are white quartz / carbonate stringers to veinlets in this interval. At 533.96 - 534.08 m there is a small brecciated zone with dark grey quartz and parts of dyke grains mixed in. Foliated dyke starts at 540.92.							
						LT	GY	PO	CLY	2I		
						LT	GN					
						LT	WH					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
541.09	545.17	4.08	GRD	CG	Variably altered granodiorite that is predominantly strongly clay altered with light green / yellow in local zones there are potassic alteration. There is also zones of more fresh granodiorite that has only blebby chloritic alteration as well as weak to moderate potassic alteration. In a local zone of fresh granodiorite there is also some moderate white clay alteration.							
						LT	GN	PH	CLY	3I	Py	0.1
						LT	YW		CHL	2I		
						LT	GY		POT	3I		
						LT	PK					
						DK	GN					
545.17	545.39	0.22	VEN	CG	Quartz vein zone in an altered granodiorite. There are 6 quartz veinlets to veins. There is blebby pyrite in these veins. There is also local dull black unknown mineral associated with the pyrite. The altered granodiorite is strongly clay altered that is light yellow to green.							
						MD	GY					
						LT	WH					
						LT	YW					
						LT	GN	PH	CLY	4I	Py	0.5
						DK	GY					
545.39	547.63	2.24	GRD	CG	Variably altered granodiorite with zones of strong clay alteration that is light green / yellow in color. There are also zones of fresher granodiorite that have weak to moderate potassic and blebby chloritic alteration. In this interval there is a xenolith that is fine grained dark black to grey in color and is weakly to moderately magnetic. This xenolith has sharp upper and lower contacts. Inside this xenolith we see light grey to white quartz grains.							
						DK	GN					
						LT	GN	PH	CLY	3I		
						LT	YW		POT	2I		
						LT	GY		CHL	2I		
						LT	PK					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
547.63	547.72	0.09	VEN	FG	Quartz / sulphide vein that has white to light grey to medium grey to dark grey, multigenerational. There is also cream colored carbonate alteration in this vein. In this vein we see blebby pyrite as well as sphalerite. The two are associated with one another and we see sphalerite inbeween the pyrite. Pyrite is fine to medium grained and clustered together.							
						LT	CR					
						DK	GY					
						MD	GY					
						LT	WH				Py	4
						LT	GY				Sp	2.5
547.72	607.94	60.22	GRD	CG	Variably altered granodiorite with different distinct alteration zones. One zone has strong clay alteration that is light yellow to green in color - there is also local white swelling clays in these intervals. There are two different zones of less altered granodiorite. One has weak to moderate potassic alteration with green / grey coloration to the core. The other one as the same weak to moderate potassic alteration but is much cleaner in appearance and white to cream colored dominantly. Both fresher zones of granodiorite have disseminated black biotite as well as blebby chlorite. The final alteration zone has local dark green chloritic alteration occurring in small intervals. In this interval there are also local zones of hematite that are more brick red in color. Locally we see pyrite occurring on fracture surfaces.							
						LT	GY	PH	CLY	2I	Bi	0.1
						LT	WH					
						DK	GN					
						MD	PK					
						LT	GN		POT	3I	Py	0.1
						LT	YW		CHL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
607.94	608.18	0.24	VEN	FG	Quartz / sulphide vein zone with 2 separate quartz veins with mineralized granodiorite seperating the two. The first is at 607.94 - 607.965 cm and is a multi-generational brecciated vein with white to light grey to dark grey quartz with cream colored carbonate alteration. There is blebby coarse grained sphalerite as well as fine to medium granined pyrite. The vein is irregular with pinching and swelling vein walls. The mineralization is occurring separate from one another. From 607.965 - 608.03 m we have a coarse grained granodiorite with light to medium green clay alteration. There is medium to coarse grained disseminated pyrite in this interval with up to 2.5% pyrite. 608.03 - 608.18 m is the other quartz / sulphide vein. From 608.03 - 608.155 m is massive sulphide - made up of pyrite, sphalerite, minor chalcopyrite as well as galena. The pyrite and the sphalerite are occurring in bands. There is a pyrite band at the start and the end of this interval with sphalerite sandwhiched inbetween. The spahlerite is 2.5 cm wide. The chalcopyrite as well as the galena is occurring in the pyrite bands. Pyrite in this interval up to 70%, sphalerite - 28%, Chalcopyrite - 2% and trace galena. At the end of this interval there is light grey to white quartz with blebby pyrite occurring disseminated in this section.							
						LT	WH				Py	30
						LT	GY				Sp	10
						DK	GY				Cp	1
						LT	GN				Gn	0.1
608.18	608.96	0.78	GRD	CG	Altered coarse grained granodiorite. Strongly clay altered with with white to medium green coloration. In the lower half of the interval we see a undulating pyrite stringer to veinlet. At the lower contact there is also a quartz/ sphalerite veinlet with blebby sphalerite in the quartz.							
						LT	WH	PH	CLY	4I	Py	2
						MD	GN				Sp	0.1
						LT	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
608.96	614.83	5.87	QFP	FG	Light grey to grey / green QFP dyke with a brecciated upper contact with a 19 cm quartz / silicious vein. There is varying amounts of phenocryst throughtout this interval. At the upper and the lower contacts we see a much smaller amount of phenocrysts in comparison to the middle section of the interval. At the upper and lower contacts we see about 5-10% phenocryst while in the middile section we see upwards of 40%. The phenocryst are strongly clay alterated with white to light green coloration. There are also glassy grey quartz phenocrysts. There is minor pyrite occurring in quartz veining near the end of this interval.							
						LT	GN					
						DK	GY					
						LT	GY	PO	CLY	2I	Py	0.1
614.83	615.08	0.25	BXA	FG	Brecciated multi-generational quartz vein. The vein is predominantly shades of grey but as well there is white. Sharp upper and lower contacts. In this vein there is blebby pyrite as well as sphalerite occurring together. In this vein there are open space cavities that are ranging in size from 1 mm up to 1 cm wide.							
						MD	GY				Sp	0.5
						DK	GY					
						LT	WH					
						LT	GY	BX			Py	0.5
615.08	615.16	0.08	GRD	CG	Granodiorite that is altered and coarse grained. There is moderate medium green clay atleration. There is disseminated pyrite in this interval that is medium to coarse grained.							
						LT	GY	PH	CLY	2I	Py	1
						LT	WH					
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
615.16	615.31	0.15	VEN	FG	Quartz / sulphide vein. Quartz is white to light grey. The main concentration of sulphides is 10 cm wide and situated roughly in the middle of the vein but closer to the upper contact than the lower contact. There is blebby to massive pyrite, spahlerite as well as minor chalcopyrite and trace galena. The pyrite and spalerite occur in bands. The pyrite is is occurring at the upper and lower contacts with sphalerite in the middle. Chalcopyrite occurs with the pyrite while the galena is situated with the sphalerite.							
						LT	GY				Py	10
						LT	WH				Sp	5
											Cp	3
											Gn	0.1
615.31	615.46	0.15	GRD	CG	Altered, coarse grained granodiorite. There is moderate clay alteration in this interval that is medium green to light green in color. In this interval we see blebby pyrite occurring in veinlets as well as disseminated.							
						LT	GY	PH	CLY	2I	Py	2
						MD	GN					
615.46	615.53	0.07	VEN	FG	White to light grey quartz / pyrite vein. In the middle of the vein we see blebby pyrite up to 7%.							
											Py	7
615.53	643.41	27.88	GRD	CG	Variable altered, coarse grained granodiorite with different zones of alteration. There are zones of strong clay alteration that are light yellow to green as well we locally have white to light blue coloration. In the zones of white / light blue clay alteration we also see moderate light pink potassic alteration. There is also atchy chloritic alteration occurring in these clay rich zones - occurring as dark green local blebs. We also have zones of more fresh granodiorite with a light grey/ green tinge to the core as well we have moderate to weak potassic alteration in this zone. There is also disseminated black biotite in this interval as well as some blebby chloritic alteration. In this interval we also see a zone of fine grained, cherty looking (possibly a apalite dyke that is low angled) occuring. It is light brown to grey in color with patchy hematite - red/ brown in color.							
						LT	GY	PH	CLY	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		CHL	1I		
						DK	GN		POT	2I		
						LT	PK					
						LT	YW					
						LT	WH					
643.41	648.20	4.79	VOL	FG	Fine grained buff to grey to locally darker brown altered volcanics with clay altered phenocrysts that are long laths (hornblende?) as well as circular to semi-circular. The phenocrysts are disseminated throughout this interval. In this interval we have quartz carbonate stringers to veins. Locally these quartz / carbonate veins are mineralized with pyrite and sphalerite. Along local fracture surfaces we have weak chloritic alteration. Sharp lower contact with QFP dyke . The upper portion of this interval is rubbled and broken.							
						LT	BG	PO	CLY	2I	Py	0.1
						LT	GY				Sp	0.1
						MD	BN					
						DK	BN					
648.20	649.93	1.73	QFP	FG	Tan / grey QFP dyke with glassy grey quartz phenocryst as well as clay / carbonate altered white phenocrysts. Locally there is quartz veining cross cutting the dyke that is locally cherty looking.							
						MD	GY					
						LT	GY					
						LT	TN	PO	CLY	2I		
649.93	650.17	0.24	GRD	CG	Small slice of granodiorite in between the same QFP dyke. There is strong medium to dark green chloritic alteration. At the lower contact there is a 4 cm wide quartz vein that is glassy grey.							
						LT	WH		CHL	2I		
						LT	GY					
						MD	GN	PH	CLY	2I		
650.17	650.34	0.17	QFP	FG	Small slice of QFP dyke with a irregular lower contact with the volcanics or different dyke? That is very similar to the above volcanics. The volcanics are coming in at a very low angle tca forming a "U" shape that is sideways.							
						LT	GY	PO				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	BF					
650.34	651.07	0.73	VOL	FG	Small slice of volcanics very similar to above or a potential another dyke coming in. Light to medium grey / brown and fine grained. Throughout this interval there are carbonate stringers running throughout this interval. The lower contact is irregular and wavy like in nature. There is one pyrite / quartz / carbonate veinlet near the beginning of this interval.							
						LT	GY					
						LT	BN					
						MD	GY					
						MD	BN					
651.07	651.74	0.67	QFP	FG	Buff colored QFP dyke with glassy grey quartz phenocrysts. At the lower contact there is a small slice of granodiorite. 2 - 4 cm wide. White carbonate stringers in this interval.							
						LT	BF	PO			Py	0.1
651.74	652.29	0.55	GRD	CG	Zone of altered coarse grained granodiorite that is strongly clay altered light white to light green/ yellow. Lower contact appears brecciated. In this interval there are also quartz stringers to veinlets with local blebby pyrite.							
						LT	GN					
						LT	YW					
						LT	WH	PH	CLY	4I	Py	0.1
652.29	652.96	0.67	QFP	FG	Buff colored QFP dyke with glassy grey quartz phenocryts as well as white clay altered							
						LT	BF	PO	CLY	2I		
652.96	663.39	10.43	GRD	CG	Variably altered coarse grained granodiorite. There is zones of strong clay alteration that are light green to light yellow in color. There are also local chloritic alteration that is medium to dark green in coloration. There are also local patches of hematite. The other zone of alteration is more fresh with a light green / grey tinge to the core with moderate potassic alteration. Most of this interval is strongly clay altered.							
						LT	WH	PH	CLY	4I		
						LT	GN		CHL	2I		
						LT	YW		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GN					
						DK	GN					
						LT	PK					
663.39	668.36	4.97	QFP	FG	Dark black to medium grey to light grey QFP dyke. Possibly the "stealth fighter" dyke mentioned in KL-15-265? But altered and bleached?. At the upper conatct where the dyke is near black in color it is magnetic but in areas that are light it is not magnetic. In the middle of this interval we have rubblerd zones. Phenocrysts in this interval are buff colored and clay altered. There is also small slices of granodiorite in this interval. In this interval we also see carbonate stringers occurring throughout.							
						DK	BK	PO	CLY	2I		
						MD	GY					
						LT	GY					
668.36	684.63	16.27	GRD	CG	Variable altered granodiorite that has zones of strong clay alteration that is light yellow to green in color. There are also zones of moderate chloritic alteration. In local zones of this chloritic alteration there is also moderate potassic alteration. Also there are zones of fresher granodiorite that is light green/ grey in color with moderate to weak potassic alteration. Throughout this interval there are quartz/ carbonte veinlets to veins some locally mineralized usually with pyrite but also some sphalerite.							
						LT	GY	PH	CLY	3I	Py	0.1
						LT	PK					
						MD	GN					
						LT	GN		CHL	2I	Sp	0.1
						LT	YW		POT	3I		
684.63	685.32	0.69	VEN	FG	QFP dyke that is phenocryst poor. The dyke is light buff to light grey in color. In the middle of this interval there is dark grey quartz with white to light grey quartz as well. The dark grey quartz is the background matrix and we see white to light grey clasts as well as veinlets. In the middle of this quartz vein breccia zone there is clay gouge that is light grey in color.							
						LT	BF	PO				
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY					
						LT	GY					
						LT	WH					
685.32	685.50	0.18	GRD	FG	Mixed zone of granodiorite as well as quartz brecciation with dark grey to white quartz.							
						DK	GY	PH				
						LT	WH					
						LT	GY					
						MD	GN					
685.50	687.83	2.33	GRD	CG	Coarse grained altered granodiorite that is strongly clay altered that is light green to light yellow in color. Throughout this interval there are quartz / sulphide veinlets that contains pyrite, sphalerite as well as galena.							
						LT	YW				Sp	0.1
						LT	GY				Gn	0.1
						LT	GN	PH	CLY	4I	Py	0.1
687.83	689.08	1.25	VEN	FG	Quartz / sulphide vein zone with dark grey to light grey to white quartz. Predominantly the sulphides are pyrite but there is also some trace black jack sphalerite. Pyrite as well as sphalerite is belbby. Pyrite - up to 6%.							
						LT	GY				Sp	0.1
						MD	GY					
						LT	WH					
						DK	GY				Py	6
689.08	716.65	27.57	GRD	CG	Variable altered coarse grained granodiorite. There are zones with strong clay alteration that is light yellow to green as well as zones of fresher light grey/green granodiorite with moderate potassic alteration, as well as weak blebby chloritic alteration. In addition there are zones of chloritic alteration that is medium to dark green in color with moderate potassic alteration. There is also very small zones of white to light blue clay alteration with moderate potassic alteration. 15 cm of green grey yellow alteration around small vein at lower contact.							
						LT	GY	PH	CLY	3I	Py	1
						LT	WH		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	YW		CHL	1I		
						LT	GN					
						LT	PK					
						DK	GN					
716.65	716.72	0.07	VEN	--	small 3cm true width qtz-sulphide-feldspar veinlet at 48 deg tca. Quartz semi-translucent, light grey, 12% py with minor medium brown sphal and trace Gal, minor dark grey fine mineral around py, possibly sulphosalt. Minor feldspar in vein, light cream white, occuring in central portion of vein. Alteration halo extending ~20 cm to either side. Light to medium green-cream clay.							
						LT	GY				Gn	1
						LT	CR				Un	0.5
						MD	GN				Sp	2
						LT	GN	EN			Py	12
716.72	728.60	11.88	GRD	CG	Coarse to medium grianed granodiorite, pervasive weak to moderate potassic alteration of feldspars, patchy weak to moderate chlorite alteration around intervals of moderate silica flooding which blurrs grain boundaries and is associated with minor disseminated py in these intervals. Some small >1"x2" darker, magnetic dark green grey, fine grained xenoliths thoughout interval. Rare small stringers with minor py, sometimes assocaited with narrow bands of silica alteration, or narrow bands of stronger potassic and clay alteration.							
						LT	PK		CHL	2I		
						LT	BN		SIL	2I		
						MD	GN					
						MD	GY	PA	POT	3I	Py	0.1
728.60	728.70	0.10	APL	FG	10cm brown-ish orange-ish red aplite dyke, fine grained with minor disseminated Py							
						MD	BN	MA			Py	1
						LT	OR					
						LT	RD					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
728.70	729.69	0.99	GRD	CG	Coarse to medium grianed granodiorite, pervasive weak to moderate potassic alteration of feldspars, patchy weak chlorite alteration. Some small >1"x2" darker, magnetic dark green grey, fine grained xenoliths thoughout interval. Rare small stringers with minor py.							
						MD	GY		CLY	2I	Py	0.2
						LT	RD		POT	3I		
						MD	GN		SIL	2I		
729.69	733.79	4.10	SIL	FG	Mottled mess of silica dyke material, sucrosic textrue, mainly quarts, clasts of med grained GRD, generally containing disseminated Py. Secondary biotite occuring in wavy bands of alteration sometimes seem surrounding GRD clasts (scavanged fe/mg from mafic minerals from GRD inclusions/clasts within dyke?). Lower ~15cm is silica altered with ~2% disseminated by near contact with veinlet							
						MD	GY	PA				
						DK	RD	ZO				
						MD	BN	MO	SIL	2I	Py	0.5
733.79	733.84	0.05	VEN	--	small 4cm true width veinlet at 80 deg tca. 35% py, qtz with minor grey-cream coloured carboante.							
						MD	GY				Py	35
733.84	734.00	0.16	SIL	FG	Silica dyke material, sucrosic textrue, mainly quarts, trace disseminated Py.							
						LT	BF					
						MD	GY	SU	SIL	4I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
734.00	740.94	6.94	GRD	CG	Medium to coarse grained GRD with patchy clay chlorite and potassic alteration. Potassic alteration pervasive, overprinted by weak chlorite alteration, strongest around small stringers caintaining qtz py with moderate silica alteration halos bluring grain boundaries in these areas. Clay alteration halos around small qtz-carboante-(feld?) veinlets. Single veinlet with Mg-Py-Ch-Qtz at 737.8m, 2mm wide. Veinlet at 737.05, 3mm true width at 30 deg tca, Carb-Py-Qtz with trace Sphal. 25cm of missing core between 736.75-737.00m where drillers encountered "Underground Stream" where water pressure was observed to jump up to 1200 PSI, weak to moderate clay alteration around this interval, core does not line up on both sides of interval (water filled void?).							
						MD	GN	PA	POT	3I	Py	0.5
						LT	GN	ZO	CHL	2I	Sp	0.1
						LT	GY	MO	SIL	2I		
						MD	GY		HEM	1I		
						LT	RD		CLY	3I		
740.94	741.10	0.16	BXA	--	vein breccia at 15 deg tca, cm true width. Breccia matrix hosted in bluish grey carbonate, bound by veinlets of calcite, minor pinkish carbonate. Minor py in bxa, 3%							
						LT	GY	BX			Py	3
						LT	BL					
741.10	755.03	13.93	GRD	CG	medium to coarse grained with pervasive weak chlorite alteration and potassic alteration, patchy clay alteration around small veinlets of qtz carbaonte, sometimes with weak secondary chlorite alteration overprinting clay alteration. 1cm veinlet at 744m with qtz-carb and minor py. 746.3m small 3mm veinlet with qtz and minor py. 747m 8mm chalcedonic qtz band, med light grey, and 1cm cream white carboante veinlet, both veinlets with very trace py. Small brecciated interval at 747.1-747.15m. 747.15-747.3 chalcedony flooded breccia with trace py and some secondary bands of grey chalcedonic qtz cutting through bxa, minor carbaonte in vineing/infill.							
						MD	GN	PA	CLY	3I	Py	0.2
						LT	CR					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN		POT	2I		
						MD	GY	MO	CHL	2I		
						LT	GY	ZO	SIL	2I		
755.03	755.60	0.57	SIL	FG	dark grey brown sucrosic siliceous dyke. Somewhat similar to other siliceous dyke a few units above.							
						MD	GY	SU			Py	0.2
						MD	BN					
755.60	761.17	5.57	GRD	CG	coarse grained GRD, pervasive weak potassic, weak siliceous, and moderate chlorite alteration. Some darker fine grained xenoliths, weak to moderately magnetic, pervaseve moderate chlorite alteration. 758.0-758.2m interval of stronger chlorite alteration, still med grained grd, with weak magnetic (secondary magnetite?, altered larger xenolith?). Clay alteration increasing in bottom 2m of interval proximal to veining below. Rare small stringers with minor py							
						MD	GY	ZO	POT	2I	Py	0.2
						MD	GN	PA	SIL	2I		
						LT	GY		CHL	3I		
						LT	RD		CLY	2I		
761.17	761.81	0.64	VEN	CG	Vein zone in crackled medium grianed, altered GRD comprized of grey chalcedonic quartz veinlets and grey chalcedonic breccia, maybe 20% vein/infill material over interval, containing Py, Sphal, Gal, Aspy. Some open cavities remain in breccia. Chalcedonic veins oriented at 73 deg tca.							
						MD	GY	BX	SIL	3I	Py	2
						LT	GN	CR	CLY	2I	Sp	1
											As	0.5
						LT	GY		CHL	2I	Gn	0.5
761.81	761.86	0.05	VEN	--	Qtz Py vein, 80 deg tca, light grey quartz with pale silver grey py, 60% over interval, no other sulphides, no carbonate. Moderate white clay alteration halo extneding ~10cm to either side of vein.							
											Py	60
761.86	762.54	0.68	GRD	CG	Pervasive clay chlorite silica altered grd between small mineralized vienlets. Trace small py stringers cutting through at similar orientations to veins above and below. Light green grey colour.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GN	MO	CLY	3I	Py	0.5
						MD	GY		CHL	2I		
						LT	GY	ZO	SIL	2I		
762.54	762.69	0.15	VEN	--	three smaller viens within this interval, Qtz-siderite-ankerite/dolomite vienlets with py and trace sphal, 15% Py over interval. Moderate white-greenish clay alteration halo extends 5 cm into altered grd on both sides, with some py in alt halo. Veins at 756-80 deg tca.							
											Sp	1
											Py	15
762.69	769.40	6.71	GRD	CG	Coarse to medium grianed GRD. Pervasive weak chlorite alteration of mafic minerals and potassic alteration of feldspars throughout interval. Upper portions of interval overprinted by white clay alteration down to 766.5m.							
						LT	RD					
						LT	GN	ZO	POT	2I		
						LT	GY	MO	CLY	3I	Py	0.5
						MD	GY	PA	CHL	2I		
769.40	775.40	6.00	GRD	MG	Sheeted veinlets in pervaisvley weakly potassically altered, overprinted by weak to moderate clay alteration, medium grained GRD. Patchy chlorite and silica alteration halos around some veinlets of Qtz Py-Carb. Veinelts no owider than 4mm, orientations variable.							
						LT	GY	ZO	POT	2I		
						LT	CR		SIL	1I		
						LT	GN	PA	CLY	3I	Py	1
						MD	GY	MO	CHL	2I		
775.40	775.93	0.53	BXA	--	brecciated medium grained GRD, cut by bands of light grey chalcedonic quartz with bands of mineralization, py-sphal-gal. Square crystals of a soft light grey-white mineral in some chalcedony filled cavities, possibly barite.							
						LT	GY	BX	SIL	4I	Py	3
						LT	GN	FR			Sp	2
						MD	GY	FL			Gn	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
775.93	783.53	7.60	GRD	MG	Medium grained GRD. Pervasively clay-chl alteration overprinting pervasive weak potassic alteration. Minor veinlets/stringers of Qtz-py. Small rhyolite dykes cutting trhough at 778m and 779m, both ~3cm true width. Interval at 779.6m of small veinlets and fractures infilled with medium grey chalcedonic qtz with py and minor sphal. Slightly rubbly interval at 780.4-780.6m.							
						MD	GY	MO	CLY	3I	Py	1
						LT	GN	PA	SIL	2I	Sp	0.2
						LT	CR	ZO	CHL	3I		
									POT	2I		
783.53	783.61	0.08	VEN	--	5cm true width vein at 65 deg tca with Qtz Carb Py and minor Cpy.							
											Py	20
											Cp	1
783.61	787.33	3.72	GRD	MG	Pervasive weak chlorite-clay alteration overprinting weak potassic alteration in medium grianed GRD. Rare small >3mm veinlets of qtz-py-carb. Minro disseminated Py in vein halos, associated with biotite alterring to pale grey sericite. .							
						LT	GN	ZO	CHL	2I		
						LT	GY	MO	SIL	1I		
						MD	GY	PA	CLY	2I	Py	1
						MD	CR		POT	2I		
787.33	788.40	1.07	GRD	MG	Small sheeted vein in hanging wall contact with dyke. Milky grey quarts and cream carboante with minor sulphide mineralization. Over interval 3% Py with minor Sphal and trace Gal. Hosted in med grained GRD with alteration similar to that observed in unit above							
						LT	GN	PA	CLY	3I	Py	3
						LT	GY	MO	SIL	1I	Sp	1
						LT	CR	ZO	CHL	2I	Gn	0.2
						MD	GY		POT	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
788.40	788.50	0.10	VEN	--	Two veins at hanging wall contact with Dyke, 2cm true width and 4cm true width. Brecciated dark grey silicified section at contact with dyke, 1cm thick. All structures at 78 deg tca. Mineralization in veins is only py, crackled and rehealed with qtz. No other sulphides observed							
											Py	25
788.50	813.63	25.13	QFP	FG	Felsic QFP dyke, medium buff green grey. Abundant phenocrysts, some intervals pheno poor, but generally abundant pheno. Qtz larger than feld. 13cm fractured interval around 1cm mineralized veinlet at 789.7 containing 40% py over 1cm interval, 60 deg tca. Qtz-Py vein at 792.3m, 72 deg tca, 6cm true width, 55% py over interval. Trace other very small stringers with minor Py throught rest of dyke interval.							
						MD	BF	PO	CLY	2I	Py	1
						LT	GY		CHL	1I		
						LT	GN					
813.63	857.69	44.06	FEL	FG	Fine grained felsic unit, abundant <1mm feldspar crystals in fine grained translucent matrix, clast supported. Dissemianted Py throughout unit, occuring in small blebs, ~1.5% Py over interval. Alteration patchy, clay or silica alteration oround small veinlets or fractures. Occasional small veinelts containing mainly Py, but occasionally with Gal and Sphal, >5mm wide. Veinlets broken out in secondary lith.							
						LT	GN				Gn	0.1
						MD	GY	PA	CLY	2I	Py	1.5
						LT	BN	ZO	SIL	2I	Sp	0.1

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	0.30	0.30	0	0	0.00	0	--	--	--	
0.30	1.52	1.22	0.74	61	0.47	39	--	3H	5W	bit of overburden but pretty much right to competent rock
1.52	3.05	1.53	1.14	75	0.00	0	--	2H	6W	
3.05	4.57	1.52	1.52	100	0.57	38	--	3H	1W	
4.57	6.10	1.53	1.48	97	0.25	16	--	4H	1W	
6.10	7.62	1.52	1.5	99	0.89	59	--	4H	1W	
7.62	9.14	1.52	1.47	97	0.86	57	--	4H	1W	
9.14	10.67	1.53	1.52	99	1.13	74	--	4H	1W	no matching joint set
10.67	12.19	1.52	1.49	98	0.44	29	--	4H	1W	
12.19	13.72	1.53	1.48	97	0.85	56	--	4H	1W	
13.72	15.24	1.52	1.46	96	0.33	22	--	3H	1W	
15.24	16.76	1.52	1.49	98	0.38	25	--	3H	1W	
16.76	18.29	1.53	1.49	97	0.31	20	--	3H	1W	rubble
18.29	19.81	1.52	1.5	99	0.31	20	--	3H	1W	
19.81	21.34	1.53	1.48	97	1.13	74	--	4H	1W	
21.34	22.86	1.52	1.52	100	1.28	84	--	4H	1W	
22.86	24.38	1.52	1.44	95	1.19	78	--	4H	1W	
24.38	25.91	1.53	1.5	98	0.99	65	--	4H	1W	
25.91	27.43	1.52	1.51	99	0.84	55	--	4H	1W	
27.43	28.96	1.53	1.5	98	0.93	61	--	4H	1W	
28.96	30.48	1.52	1.47	97	0.28	18	--	4H	1W	
30.48	32.00	1.52	1.43	94	0.73	48	--	4H	1W	
32.00	33.53	1.53	1.49	97	0.84	55	--	3H	1W	
33.53	35.05	1.52	1.44	95	0.59	39	--	3H	1W	
35.05	36.58	1.53	1.45	95	0.90	59	--	4H	1W	
36.58	38.10	1.52	1.47	97	0.70	46	--	4H	1W	
38.10	39.62	1.52	1.49	98	0.90	59	--	3H	1W	
39.62	41.15	1.53	1.51	99	0.71	46	--	4H	1W	
41.15	42.67	1.52	1.5	99	0.85	56	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.67	44.20	1.53	1.51	99	0.65	42	--	4H	1W	
44.20	47.24	3.04	2.89	95	1.50	49	--	4H	1W	
47.24	50.29	3.05	3.03	99	1.66	54	--	4H	1W	
50.29	53.34	3.05	2.95	97	1.46	48	--	4H	1W	
53.34	56.39	3.05	2.95	97	1.48	49	--	4H	1W	
56.39	59.44	3.05	3.03	99	1.95	64	--	4H	1W	
59.44	62.48	3.04	3.02	99	1.99	65	--	4H	1W	
62.48	65.53	3.05	2.97	97	1.39	46	--	4H	1W	
65.53	68.58	3.05	3.02	99	2.33	76	--	4H	1W	
68.58	71.63	3.05	3.02	99	1.29	42	--	4H	1W	
71.63	74.68	3.05	2.98	98	1.09	36	--	4H	1W	
74.68	77.72	3.04	2.98	98	1.77	58	--	3H	1W	small calcite vein with very minor galena and pyrite as well as small clusters of radiating black tourmaline (?) crystals throughout section, in both vein/ contact breccia and intrusive on up section side
77.72	80.77	3.05	3.04	100	0.96	31	--	3H	1W	
80.77	83.82	3.05	2.98	98	0.91	30	--	3H	1W	
83.82	86.87	3.05	3.01	99	1.29	42	--	3H	1W	fractured/ crumbly rubble zone
86.87	89.92	3.05	2.88	94	0.57	19	--	3H	2W	rubble
89.92	92.96	3.04	2.93	96	1.30	43	--	3H	1W	
92.96	96.01	3.05	2.99	98	1.89	62	--	4H	1W	
96.01	99.06	3.05	3.01	99	1.63	53	--	4H	1W	
99.06	102.11	3.05	3.03	99	1.53	50	--	4H	1W	
102.11	105.16	3.05	3.04	100	1.76	58	--	4H	1W	
105.16	108.20	3.04	3.02	99	2.17	71	--	4H	1W	
108.20	111.25	3.05	2.98	98	2.11	69	--	4H	1W	
111.25	114.30	3.05	3.01	99	1.86	61	--	4H	1W	
114.30	117.35	3.05	2.95	97	0.88	29	--	4H	1W	very fractured
117.35	120.40	3.05	3.03	99	0.75	25	--	3H	1W	
120.40	123.44	3.04	2.96	97	0.74	24	--	4H	1W	
123.44	126.49	3.05	3.01	99	2.07	68	--	4H	1W	
126.49	129.54	3.05	3	98	2.15	70	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
129.54	132.59	3.05	2.96	97	2.33	76	--	5H	1W	
132.59	135.64	3.05	2.94	96	2.44	80	--	5H	1W	
135.64	138.68	3.04	3.04	100	2.19	72	--	4H	1W	
138.68	141.73	3.05	2.99	98	1.70	56	--	3H	1W	
141.73	144.78	3.05	2.98	98	1.67	55	--	3H	1W	
144.78	147.83	3.05	3.02	99	1.01	33	--	3H	1W	fine grained reddish brown heavily fractured dyke
147.83	150.88	3.05	2.95	97	1.06	35	--	3H	1W	fault gouge/ clay
150.88	153.92	3.04	3.01	99	1.34	44	--	4H	1W	
153.92	156.97	3.05	3.03	99	2.02	66	--	4H	1W	
156.97	160.02	3.05	3.03	99	2.04	67	--	4H	1W	
160.02	163.07	3.05	2.96	97	1.20	39	--	4H	1W	
163.07	166.12	3.05	3.02	99	1.41	46	--	4H	1W	
166.12	169.16	3.04	2.94	97	0.00	0	--	3H	1W	rubble
169.16	172.21	3.05	3.03	99	0.80	26	--	3H	1W	
172.21	175.26	3.05	2.99	98	0.83	27	--	3H	1W	thin 2cm wide black clay section with galena and minor pyrite within
175.26	178.31	3.05	3.04	100	1.36	45	--	4H	1W	
178.31	181.36	3.05	2.98	98	1.38	45	--	4H	1W	11cm wide sulphide vein with pyrite, galena, arsenopyrite and honey sphalerite
181.36	184.40	3.04	2.98	98	1.46	48	--	4H	1W	calcite and minor quartz vein with black tourmaline, vuggy cavaties and minor pyrite with clay gouge on either side
184.40	187.45	3.05	3.01	99	2.20	72	--	5H	1W	
187.45	190.50	3.05	3.05	100	2.35	77	--	5H	1W	thin very fine grained aplite dyke/ vein in section showing offset by small pyrite veins
190.50	193.55	3.05	3	98	1.61	53	--	5H	1W	
193.55	196.60	3.05	2.93	96	1.43	47	--	3H	1W	
196.60	199.64	3.04	2.97	98	0.88	29	--	3H	1W	rubble
199.64	202.69	3.05	2.98	98	0.54	18	--	3H	1W	clay altered granodiorite with hematite staining on some fracture surfaces
202.69	205.74	3.05	3.03	99	1.18	39	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
205.74	208.79	3.05	2.98	98	2.39	78	--	4H	1W	minor sphalerite, pyrite and galena in section
208.79	211.84	3.05	3.03	99	1.70	56	--	4H	1W	vuggy, heavily altered (chlorite + epidote + clay) grano with thin carbonate and quartz veins. Minor sulphides (galena and pyrite)
211.84	214.88	3.04	3.04	100	2.12	70	--	4H	1W	
214.88	217.93	3.05	3.02	99	1.94	64	--	4H	1W	
217.93	220.98	3.05	3.04	100	2.34	77	--	4H	1W	small sphalerite + galena + pyrite vein in section
220.98	224.03	3.05	2.95	97	1.58	52	--	4H	1W	
224.03	227.08	3.05	2.99	98	1.58	52	--	4H	1W	small fracture zone and fault rubble
227.08	230.12	3.04	2.97	98	1.22	40	--	4H	1W	fault rubble
230.12	231.65	1.53	1.44	94	1.10	72	--	4H	1W	
231.65	234.70	3.05	2.94	96	1.44	47	--	4H	1W	
234.70	237.74	3.04	2.95	97	0.87	29	--	4H	1W	
237.74	240.79	3.05	3.01	99	0.61	20	--	3H	1W	37cm vein with pyrite, sphalerite, galena. Clayey fault gouge
240.79	243.84	3.05	3.03	99	1.30	43	--	4H	1W	fault rubble
243.84	246.89	3.05	3.03	99	1.58	52	--	4H	1W	
246.89	249.94	3.05	2.98	98	1.47	48	--	4H	1W	
249.94	252.98	3.04	3	99	1.77	58	--	4H	1W	
252.98	256.03	3.05	3.01	99	1.50	49	--	4H	1W	
256.03	259.08	3.05	2.86	94	1.76	58	--	4H	1W	
259.08	262.13	3.05	3.03	99	2.13	70	--	4H	1W	
262.13	265.18	3.05	3.02	99	1.50	49	--	4H	1W	
265.18	268.22	3.04	2.96	97	1.24	41	--	4H	1W	
268.22	271.27	3.05	2.91	95	0.86	28	--	3H	1W	fractured rubble
271.27	274.32	3.05	3	98	0.63	21	--	3H	1W	
274.32	277.37	3.05	3.01	99	1.24	41	--	3H	1W	large vuggy carbonate/ quartz with sulphides vein
277.37	280.42	3.05	2.96	97	1.10	36	--	4H	1W	
280.42	283.46	3.04	2.99	98	2.13	70	--	4H	1W	
283.46	286.51	3.05	3.02	99	0.83	27	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
286.51	289.56	3.05	2.92	96	0.72	24	--	4H	1W	
289.56	292.61	3.05	3.02	99	1.60	52	--	4H	1W	
292.61	295.66	3.05	3.01	99	1.31	43	--	3H	1W	
295.66	298.70	3.04	3	99	0.59	19	--	3H	1W	
298.70	301.75	3.05	2.99	98	0.12	4	--	3H	1W	clay altered fault rubble
301.75	304.80	3.05	3.03	99	1.35	44	--	3H	1W	
304.80	307.85	3.05	3.03	99	1.49	49	--	4H	1W	
307.85	310.90	3.05	2.99	98	1.46	48	--	3H	1W	
310.90	313.94	3.04	2.97	98	1.70	56	--	4H	1W	
313.94	316.99	3.05	3.03	99	1.80	59	--	4H	1W	
316.99	320.04	3.05	3.01	99	1.77	58	--	4H	1W	
320.04	323.09	3.05	3.03	99	2.06	68	--	4H	1W	
323.09	326.14	3.05	2.98	98	2.05	67	--	4H	1W	
326.14	329.18	3.04	3.01	99	1.41	46	--	4H	1W	
329.18	332.23	3.05	2.91	95	1.42	47	--	4H	1W	
332.23	335.28	3.05	2.97	97	0.81	27	--	3H	1W	
335.28	336.80	1.52	1.49	98	0.13	9	--	2H	1W	very fractured rubble/ fault gouge
336.80	339.85	3.05	2.87	94	1.61	53	--	4H	1W	
339.85	342.90	3.05	2.94	96	2.16	71	--	5H	1W	
342.90	344.42	1.52	1.52	100	1.29	85	--	5H	1W	
344.42	347.47	3.05	3.01	99	2.55	84	--	5H	1W	
347.47	350.52	3.05	2.92	96	2.55	84	--	5H	1W	
350.52	353.57	3.05	3.04	100	2.54	83	--	5H	1W	
353.57	356.62	3.05	2.98	98	2.14	70	--	4H	1W	
356.62	359.66	3.04	3.01	99	1.02	34	--	4H	1W	
359.66	362.71	3.05	2.98	98	2.12	70	--	5H	1W	
362.71	365.76	3.05	3.02	99	1.71	56	--	4H	1W	
365.76	368.81	3.05	2.98	98	0.84	28	--	3H	1W	crumbly fault rubble
368.81	371.86	3.05	3.01	99	1.19	39	--	4H	1W	
371.86	373.38	1.52	1.49	98	0.60	39	--	3H	1W	clay altered rubble
373.38	376.43	3.05	3.02	99	1.22	40	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
376.43	379.48	3.05	3	98	1.87	61	--	4H	1W	
379.48	382.52	3.04	3.03	100	1.24	41	--	4H	1W	
382.52	385.57	3.05	2.93	96	1.83	60	--	4H	1W	
385.57	388.62	3.05	2.98	98	1.69	55	--	5H	1W	
388.62	391.67	3.05	2.99	98	0.45	15	--	4H	1W	
391.67	394.72	3.05	3.03	99	1.12	37	--	4H	1W	
394.72	397.76	3.04	3.03	100	2.93	96	--	3H	1W	Joint set at 15-20 degrees. Joint proximal to end of run has 1cm light green clay infill.
397.76	400.81	3.05	3.05	100	2.39	78	--	3H	1W	Moderate hematite alteration on rubble fracture surfaces.
400.81	403.86	3.05	3.05	100	1.25	41	--	3H	1W	Clay altered rubble and ~1m competent interval.
403.86	406.91	3.05	3.05	100	0.12	4	--	2H	1W	Clay altered gouge and rubble.
406.91	409.96	3.05	3.05	100	0.80	26	--	3H	1W	Clay altered rubble with 10-50cm competent intervals.
409.96	413.00	3.04	2.38	78	1.54	51	--	3H	1W	Clay altered gouge with small competent intervals (10cm).
413.00	416.05	3.05	2.38	78	0.00	0	--	3H	1W	clay altered gouge/ rubble
416.05	419.10	3.05	2.71	89	0.00	0	--	3H	1W	rubble, small sphalerite + pyrite + minor galena in quartz carbonate vein
419.10	420.62	1.52	1.48	97	0.39	26	--	3H	1W	
420.62	423.67	3.05	3	98	0.60	20	--	3H	1W	
423.67	426.72	3.05	2.93	96	0.00	0	--	2H	1W	clay fault gouge
426.72	428.24	1.52	1.44	95	0.00	0	--	2H	1W	
428.24	431.29	3.05	2.95	97	0.16	5	--	3H	1W	clay altered rubble
431.29	434.34	3.05	2.96	97	1.19	39	--	3H	1W	
434.34	437.39	3.05	2.97	97	1.66	54	--	3H	1W	
437.39	440.44	3.05	2.94	96	0.79	26	--	3H	1W	clay alteration and fault gouge
440.44	443.48	3.04	2.98	98	0.57	19	--	3H	1W	
443.48	446.53	3.05	2.86	94	1.06	35	--	4H	1W	
446.53	449.58	3.05	3.01	99	1.69	55	--	4H	1W	
449.58	452.63	3.05	2.99	98	1.89	62	--	4H	1W	
452.63	455.68	3.05	3.02	99	2.40	79	--	4H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
455.68	458.72	3.04	3.04	100	2.22	73	--	4H	1W	
458.72	461.77	3.05	2.99	98	1.73	57	--	4H	1W	contact with fine grained light grey green clay altered quartz feldspar porphyritic dyke. Feldspar grains are altered to clay and thin white calcite veins cut it throughout
461.77	464.82	3.05	3.04	100	2.87	94	--	4H	1W	
464.82	467.87	3.05	3.04	100	2.62	86	--	4H	1W	
467.87	470.92	3.05	3.02	99	2.46	81	--	4H	1W	
470.92	473.96	3.04	3.03	100	2.71	89	--	4H	1W	
473.96	477.01	3.05	2.98	98	1.82	60	--	4H	1W	
477.01	480.06	3.05	3.02	99	2.20	72	--	4H	1W	
480.06	483.11	3.05	3.03	99	2.58	85	--	4H	1W	
483.11	486.16	3.05	2.97	97	2.60	85	--	4H	1W	
486.16	489.20	3.04	3.03	100	2.38	78	--	5H	1W	small vein with sphalerite, pyrite and minor galena
489.20	492.25	3.05	3.01	99	2.65	87	--	5H	1W	
492.25	495.30	3.05	3.01	99	2.35	77	--	5H	1W	small vein with pyrite and sphalerite
495.30	498.35	3.05	3.02	99	2.60	85	--	5H	1W	
498.35	501.40	3.05	2.96	97	1.94	64	--	4H	1W	
501.40	504.44	3.04	3.02	99	2.20	72	--	4H	1W	
504.44	507.49	3.05	3	98	2.38	78	--	4H	1W	
507.49	510.54	3.05	3.03	99	2.63	86	--	4H	1W	
510.54	513.59	3.05	2.96	97	2.21	72	--	4H	1W	
513.59	516.64	3.05	2.95	97	2.00	66	--	4H	1W	
516.64	519.68	3.04	3.03	100	2.79	92	--	4H	1W	small pyrite vein with minor galena
519.68	522.73	3.05	2.91	95	1.57	51	--	3H	1W	reduced to BTW, clay and chlorite altered coarse grained granodiorite and qfp dyke
522.73	524.26	1.53	1.35	88	0.54	35	--	3H	1W	
524.26	527.30	3.04	2.99	98	1.19	39	--	3H	1W	
527.30	530.35	3.05	2.59	85	1.05	34	--	3H	1W	veins with pyrite and minor chalcopyrite in section
530.35	533.40	3.05	2.98	98	0.77	25	--	3H	1W	contact with fine grained greenish grey qfp dykes within

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
533.40	536.45	3.05	3.03	99	0.70	23	--	3H	1W	fine grained greenish grey qfp dyke. Feldspar crystals are expanding/ altering to clay with addition of spray water from photos
536.45	537.97	1.52	1.51	99	1.00	66	--	3H	1W	
537.97	541.02	3.05	2.97	97	0.99	32	--	3H	1W	
541.02	544.07	3.05	3.04	100	2.27	74	--	3H	1W	clay and chlorite altered granodiorite with foliated contact of greenish grey dyke
544.07	547.12	3.05	3.02	99	2.25	74	--	3H	1W	vuggy carbonate + quartz vein in section
547.12	550.16	3.04	3.02	99	2.09	69	--	3H	1W	
550.16	553.21	3.05	3	98	1.88	62	--	4H	1W	
553.21	556.26	3.05	2.99	98	2.41	79	--	3H	1W	
556.26	559.31	3.05	3.02	99	2.81	92	--	3H	1W	
559.31	562.36	3.05	3.03	99	2.78	91	--	4H	1W	
562.36	565.40	3.04	3.02	99	2.30	76	--	4H	1W	
565.40	568.45	3.05	2.92	96	2.59	85	--	4H	1W	
568.45	571.50	3.05	3.04	100	2.40	79	--	4H	1W	
571.50	574.55	3.05	3.03	99	1.54	50	--	4H	1W	
574.55	577.60	3.05	3.03	99	2.78	91	--	4H	1W	4-5cm wide crystalline calcite vein in section with light green chlorite + epidote + clay altered medium grained granodiorite
577.60	580.64	3.04	3	99	2.65	87	--	3H	1W	
580.64	583.69	3.05	3.01	99	2.58	85	--	4H	1W	
583.69	586.74	3.05	2.98	98	2.16	71	--	4H	1W	
586.74	589.79	3.05	3.03	99	1.47	48	--	3H	1W	
589.79	592.84	3.05	2.95	97	1.72	56	--	3H	1W	
592.84	595.88	3.04	3.03	100	2.29	75	--	3H	1W	thin fine grained red brown aplite dyke in section
595.88	598.93	3.05	2.97	97	2.15	70	--	3H	1W	
598.93	601.98	3.05	3.02	99	2.18	71	--	3H	1W	
601.98	605.03	3.05	3.02	99	0.65	21	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
605.03	608.08	3.05	3.04	100	1.61	53	--	3H	1W	section ends in middle of ~13cm wide quartz + sulphide vein (lots of pyrite and chalco with disseminated galena and black sphalerite)
608.08	611.12	3.04	2.95	97	1.88	62	--	3H	1W	~13 cm wide quartz + sulphide vein at start of section and contact with fine grained grey quartz- feldspar porphyritic dyke that gets more pheno rich as you progress down section. Possible cooling margin on contact why it's finer grained?
611.12	614.17	3.05	2.98	98	2.28	75	--	3H	1W	qfp dyke gets more aphanitic/ silicified as move down section
614.17	617.22	3.05	3.02	99	2.26	74	--	4H	1W	fine grained qfp dyke in brecciated contact with quartz + sulphide vein (~10cm wide). Lower section becomes medium grained granodiorite
617.22	620.27	3.05	2.99	98	2.34	77	--	4H	1W	medium grained granodiorite
620.27	623.31	3.04	3.03	100	2.75	90	--	3H	1W	clay altered granodiorite
623.31	626.36	3.05	2.58	85	1.07	35	--	3H	1W	heavily fractured fine grained reddish brown to greenish grey dyke with abundant disseminated pyrite throughout especially on fracture surfaces
626.36	629.41	3.05	2.82	92	0.48	16	--	3H	1W	rubble zone
629.41	632.46	3.05	2.96	97	1.13	37	--	3H	1W	
632.46	635.51	3.05	3.04	100	2.43	80	--	4H	1W	
635.51	638.56	3.05	2.67	88	1.28	42	--	3H	1W	broken rubble zone
638.56	641.61	3.05	3.02	99	2.19	72	--	3H	1W	
641.61	644.66	3.05	2.96	97	0.60	20	--	3H	1W	broken rubble
644.66	646.19	1.53	1.5	98	0.13	8	--	3H	1W	
646.19	649.24	3.05	2.96	97	1.13	37	--	3H	1W	
649.24	652.29	3.05	3	98	1.21	40	--	3H	1W	fine grained greenish grey siliceous qfp dyke in sharp contact with chlorite + clay altered granodiorite
652.29	655.34	3.05	3.01	99	0.85	28	--	3H	1W	
655.34	656.86	1.52	1.38	91	0.22	14	--	3H	1W	rubble
656.86	659.91	3.05	2.96	97	1.10	36	--	3H	1W	small quartz + carbonate veins with minor pyrite and galena within

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
659.91	662.95	3.04	2.99	98	2.14	70	--	4H	1W	hematite staining in medium grained granodiorite
662.95	665.99	3.04	2.96	97	1.09	36	--	3H	1W	fractured rubble of qfp dyke. Contact with grd is very fine grained and dark green. Gets coarser/ more porphyritic down section and lighter greenish grey
665.99	669.04	3.05	2.95	97	1.13	37	--	3H	1W	
669.04	672.08	3.04	2.94	97	1.04	34	--	3H	1W	small pyrite + sphalerite with trace galena vein in quartz and milky peach carbonate. See pervasive magnetite grains in granodiorite as you go down section below vein… possible secondary replacement since granodiorite is so clay altered
672.08	675.13	3.05	2.92	96	1.49	49	--	3H	1W	
675.13	678.18	3.05	3.02	99	1.78	58	--	3H	1W	
678.18	681.23	3.05	2.94	96	0.98	32	--	3H	1W	
681.23	684.28	3.05	3	98	0.51	17	--	2H	1W	clayey fault gouge section
684.28	685.81	1.53	1.47	96	0.60	39	--	3H	1W	
685.81	687.33	1.52	1.51	99	0.60	39	--	3H	1W	clay altered granodiorite with quartz + minor pyrite with trace sphalerite and galena veins, 2-3 cm width
687.33	688.85	1.52	1.49	98	1.14	75	--	4H	1W	quartz + pyrite veins with trace galena and sphalerite
688.85	691.90	3.05	3.03	99	2.76	90	--	4H	1W	
691.90	694.95	3.05	3.04	100	2.77	91	--	4H	1W	
694.95	698.00	3.05	2.98	98	2.64	87	--	3H	1W	vuggy carbonate + quartz veins and small pyrite + biotite stringers in chlorite + clay altered granodiorite
698.00	701.04	3.04	2.85	94	0.79	26	--	3H	1W	fractured rubble
701.04	704.09	3.05	2.97	97	2.27	74	--	4H	1W	
704.09	707.14	3.05	2.9	95	1.03	34	--	3H	1W	
707.14	710.19	3.05	2.94	96	1.38	45	--	4H	1W	
710.19	713.23	3.04	3	99	1.45	48	--	3H	1W	clay altered rubble
713.23	716.28	3.05	3.01	99	0.83	27	--	3H	1W	
716.28	719.33	3.05	2.99	98	1.24	41	--	3H	1W	
719.33	720.85	1.52	1.49	98	0.37	24	--	4H	1W	fractured section

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
720.85	723.90	3.05	3.04	100	1.92	63	--	4H	1W	potassically altered granodiorite
723.90	726.95	3.05	3	98	1.56	51	--	3H	1W	hematite staining and clay alteration in granodiorite
726.95	730.00	3.05	2.91	95	1.32	43	--	3H	1W	abundant hematite staining on fracture surfaces and in granodiorite. Quite fractured
730.00	731.52	1.52	1.51	99	0.73	48	--	4H	1W	fine grained dark grey- black qfp dyke with quartz and feldspar phenos heavily chlorite altered
731.52	734.57	3.05	2.98	98	2.19	72	--	5H	1W	silicified qfp dyke with small quartz + sulphide (pyrite, minor sphalerite and galena) vein
734.57	737.62	3.05	2.77	91	2.02	66	--	4H	1W	'underground stream' block left in at 737m with 25cm missing
737.62	739.14	1.52	1.46	96	1.01	66	--	4H	1W	
739.14	742.19	3.05	2.99	98	2.55	84	--	4H	1W	
742.19	745.24	3.05	3.05	100	2.82	92	--	4H	1W	
745.24	748.29	3.05	3.01	99	2.10	69	--	3H	1W	clay altered granodiorite
748.29	751.33	3.04	2.99	98	2.38	78	--	4H	1W	
751.33	754.38	3.05	2.98	98	1.73	57	--	4H	1W	
754.38	757.43	3.05	3.01	99	2.06	68	--	4H	1W	small fine grained dark grey- black dyke in contact with clay and chlorite altered granodiorite. Dyke is cut by small pyrite + chlorite/ biotite veins with light grey alteration haloes on either side. Phenos are chloritically altered in matrix
757.43	760.48	3.05	3	98	1.73	57	--	4H	1W	
760.48	763.52	3.04	3.04	100	1.79	59	--	3H	1W	small brecciated vein zones with pyrite and minor sphalerite and galena
763.52	766.57	3.05	3.02	99	2.54	83	--	4H	1W	
766.57	769.62	3.05	3.05	100	2.70	89	--	4H	1W	
769.62	772.67	3.05	3	98	2.59	85	--	3H	1W	heavily clay altered granodiorite
772.67	775.71	3.04	3.04	100	2.07	68	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
775.71	778.76	3.05	3.02	99	2.03	67	--	3H	1W	small brecciated vein system at start of section with medium grey chalcedonic quartz veins overprinted by white barite-carbonate- quartz vein. Large euhedral barite crystals visible on vein edge. Also small veinlet of sphalerite + pyrite + minor galena with silvery sericite in granodiorite immediately proximal to structure.
778.76	781.81	3.05	3.04	100	1.64	54	--	3H	1W	
781.81	784.86	3.05	3.03	99	1.96	64	--	4H	1W	
784.86	787.91	3.05	3.04	100	2.01	66	--	4H	1W	small 1cm true width pyrite + quartz with minor chalcopyrite veinlet in section
787.91	790.96	3.05	2.96	97	0.66	22	--	3H	1W	clay altered qfp dyke
790.96	794.01	3.05	2.95	97	1.02	33	--	3H	1W	small 5cm wide pyrite + minor quartz vein in section.
794.01	797.06	3.05	2.96	97	1.05	34	--	3H	1W	
797.06	800.11	3.05	2.95	97	1.04	34	--	3H	1W	
800.11	801.62	1.51	1.48	98	0.35	23	--	3H	1W	fractured qfp dyke
801.62	804.67	3.05	2.98	98	0.52	17	--	3H	1W	
804.67	807.72	3.05	2.75	90	0.47	15	--	3H	1W	light greenish grey to purplish brown qfp
807.72	809.24	1.52	1.46	96	0.31	20	--	3H	1W	
809.24	812.29	3.05	3.02	99	0.65	21	--	3H	1W	
812.29	815.34	3.05	3.04	100	1.34	44	--	3H	1W	
815.34	818.39	3.05	3.04	100	1.16	38	--	3H	1W	
818.39	819.91	1.52	1.52	100	0.75	49	--	3H	1W	
819.91	822.96	3.05	3	98	0.57	19	--	3H	1W	
822.96	826.01	3.05	3.03	99	1.23	40	--	3H	1W	
826.01	827.54	1.53	1.51	99	0.99	65	--	4H	1W	
827.54	830.58	3.04	3.04	100	2.28	75	--	4H	1W	
830.58	833.63	3.05	3.01	99	2.09	69	--	4H	1W	
833.63	836.68	3.05	3.03	99	1.77	58	--	4H	1W	
836.68	839.72	3.04	3.03	100	1.77	58	--	4H	1W	small pyrite + quartz veins in hematite stained possible fine grained rhyolite?

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
839.72	842.77	3.05	2.99	98	1.55	51	--	4H	1W	small fractures with clay infill and clay altered feldspars in alteration halo around them
842.77	845.82	3.05	3.04	100	1.67	55	--	4H	1W	
845.82	848.87	3.05	3.03	99	1.81	59	--	4H	1W	
848.87	851.92	3.05	2.97	97	0.70	23	--	3H	1W	
851.92	854.97	3.05	2.87	94	0.76	25	--	3H	1W	
854.97	857.40	2.43	2.43	100	1.73	71	--	3H	1W	actual EOH is 857.69m
999.00	999.00	0.00	999	####	####	####	--	--	--	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
1	22.42	GRD	
2	21.49	GRD	
3	23.27	GRD	
4	20.36	GRD	
5	22.23	GRD	
6	21.77	GRD	
7	24.7	GRD	
8	22.52	GRD	
9	0.51	GRD	
10	26.34	GRD	
11	22.8	GRD	
12	24.23	GRD	
13	23.8	GRD	
14	25.28	GRD	
15	15.41	GRD	
16	0.547	GRD	
17	25.82	GRD	
18	1.396	GRD	
19	22.43	GRD	
20	26.68	GRD	
21	27.85	GRD	
22	21.21	GRD	
23	17.15	GRD	
24	20.4	GRD	
25	18.71	GRD	
26	24.43	GRD	
27	23.04	GRD	
28	24.58	GRD	
29	26.86	GRD	
30	26.6	GRD	
31	24.81	GRD	
32	0.746	GRD	
33	11.25	GRD	
34	1.834	GRD	
35	4.287	GRD	
36	17.9	GRD	
37	12.7	GRD	
38	15.62	GRD	
39	0.344	GRD	
40	4.769	GRD	
41	4.649	GRD	
42	11.29	GRD	
43	19.24	GRD	
44	7.904	GRD	
45	21.2	GRD	
46	10.54	GRD	
47	20.62	GRD	
48	20.39	GRD	
49	16.52	GRD	
50	19.8	GRD	
51	23.36	GRD	
52	5.67	GRD	
53	22.86	GRD	
54	21.05	GRD	
55	22.85	GRD	
56	14.4	GRD	
57	20.36	GRD	
58	16.56	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
59	17.33	GRD	
60	21.71	GRD	
61	20.02	GRD	
62	18.52	GRD	
63	18.27	GRD	
64	18.96	GRD	
65	23.81	GRD	
66	23.73	GRD	
67	0.203	GRD	
68	0.284	GRD	
69	9.352	GRD	
70	0.554	GRD	
71	0.421	GRD	
72	0.373	GRD	
73	0.598	GRD	
74	0.529	GRD	
75	0.559	GRD	
76	0.216	GRD	
77	0.264	GRD	
78	0.244	GRD	
79	10.8	GRD	
80	0.398	GRD	
81	0.646	GRD	
82	0.248	GRD	
83	0.324	GRD	
84	0.816	GRD	
85	10.67	GRD	
86	0.957	GRD	
87	0.542	GRD	
88	0.38	BXA	
89	0.238	BXA	
90	0.286	QFP	
91	0.228	QFP	
92	0.226	QFP	
93	0.229	QFP	
94	0.237	QFP	
95	0.262	QFP	
96	0.219	QFP	
97	0.306	QFP	
98	0.208	QFP	
99	0.253	QFP	
100	0.189	QFP	
101	0.194	QFP	
102	0.282	QFP	
103	0.206	QFP	
104	0.286	QFP	
105	0.217	QFP	
106	0.241	QFP	
107	0.249	QFP	
108	0.225	QFP	
109	0.231	QFP	
110	0.275	QFP	
111	0.184	QFP	
112	0.178	QFP	
113	0.181	QFP	
114	0.414	QFP	
115	10.38	GRD	
116	11.59	GRD	
117	19.26	GRD	
118	1.352	GRD	
119	0.468	GRD	
120	20.25	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
121	0.823	GRD	
122	0.325	GRD	
123	23.66	GRD	
124	11.23	GRD	
125	0.702	GRD	
126	2.349	GRD	
127	23.16	GRD	
128	23.63	GRD	
129	20.47	GRD	
130	16.6	GRD	
131	0.727	GRD	
132	18.06	GRD	
133	0.968	GRD	
134	13.72	GRD	
135	0.6	GRD	
136	0.385	GRD	
137	0.616	GRD	
138	0.353	GRD	
139	0.475	GRD	
140	0.431	GRD	
141	0.041	QFP	
142	0.124	QFP	
143	0.041	QFP	
144	0.052	QFP	
145	0.053	QFP	
146	0.12	QFP	
147	0.1	QFP	
148	0.114	QFP	
149	1.467	GRD	
150	0.532	GRD	
151	0.9	GRD	
152	20.54	GRD	
153	22.39	GRD	
154	25.74	GRD	
155	18.86	GRD	
156	17.88	GRD	
157	26.45	GRD	
158	21.84	GRD	
159	11.94	GRD	
160	26.33	GRD	
161	24.92	GRD	
162	0.602	GRD	
163	22.21	GRD	
164	23.19	GRD	
165	18.78	GRD	
166	21.37	GRD	
167	0.753	GRD	
168	0.661	GRD	
169	0.578	GRD	
170	0.45	GRD	
171	0.123	GRD	
172	0.505	GRD	
173	0.599	GRD	
174	0.405	GRD	
175	0.397	GRD	
176	0.769	GRD	
177	0.986	GRD	
178	0.925	GRD	
179	0.659	GRD	
180	0.36	GRD	
181	0.333	GRD	
182	0.482	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	0.203	GRD	
183	0.203	VEN	
184	0.473	GRD	
185	0.858	GRD	
186	4.026	GRD	
187	0.48	GRD	
188	0.489	GRD	
189	6.24	GRD	
190	1.568	GRD	
191	19.01	GRD	
192	21.23	GRD	
193	24.85	GRD	
194	15.47	GRD	
195	10.57	GRD	
196	0.671	GRD	
197	0.437	GRD	
198	0.409	GRD	
199	0.391	GRD	
200	2.465	GRD	
201	0.823	GRD	
202	1.34	GRD	
203	0.817	GRD	
204	0.529	GRD	
205	0.46	GRD	
206	2.477	GRD	
207	0.78	GRD	
208	0.367	GRD	
209	0.468	GRD	
210	9.319	GRD	
211	0.556	GRD	
212	0.369	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
213	2.049	GRD	
214	1.254	GRD	
215	14.89	GRD	
216	3.169	GRD	
217	19.56	GRD	
218	0.378	GRD	
219	11.63	GRD	
220	10.58	GRD	
221	0.678	GRD	
222	4.949	GRD	
223	7.423	GRD	
224	0.444	GRD	
225	7.185	GRD	
226	0.315	GRD	
227	4.497	GRD	
228	20.02	GRD	
229	18.03	GRD	
230	17.68	GRD	
231	0.811	GRD	
232	6.574	GRD	
233	13.27	GRD	
234	2.074	GRD	
235	0.252	GRD	
236	0.337	GRD	
237	0.311	GRD	
238	0.488	VEN	
239	0.284	GRD	
240	0.272	BXA	
241	0.526	BXA	
242	22.47	GRD	
243	19.4	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
244	14.53	GRD	
245	0.621	GRD	
246	16.17	GRD	
247	5.941	GRD	
248	0.919	GRD	
249	0.322	GRD	
250	7.569	GRD	
251	12.59	GRD	
252	21.66	GRD	
253	22.09	GRD	
254	15.09	GRD	
255	8.272	GRD	
256	1.118	GRD	
257	2.4	GRD	
258	1.873	GRD	
259	23.08	GRD	
260	2.219	GRD	
261	4.812	GRD	
262	2.941	GRD	
263	7.187	GRD	
264	0.366	GRD	
265	0.625	GRD	
266	21.43	GRD	
267	8.695	GRD	
268	1.124	GRD	
269	1.094	GRD	
270	0.174	GRD	
271	0.259	GRD	
272	0.741	GRD	
273	0.762	GRD	
274	0.709	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
275	0.811	GRD	
276	0.22	BXA	
277	0.51	VEN	
278	0.692	GRD	
279	8.242	GRD	
280	8.903	GRD	
281	0.421	GRD	
282	7.182	GRD	
283	1.046	GRD	
284	0.541	GRD	
285	0.629	GRD	
286	0.949	GRD	
287	0.689	GRD	
288	0.819	GRD	
289	0.405	GRD	
290	0.911	GRD	
291	0.822	GRD	
292	10.07	GRD	
293	3.035	GRD	
294	9.887	GRD	
295	0.363	GRD	
296	0.281	GRD	
297	0.376	GRD	
298	15.16	GRD	
299	2.391	GRD	
300	5.625	GRD	
301	18.95	GRD	
302	12.1	GRD	
303	3.966	GRD	
304	12.45	GRD	
305	2.664	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
306	7.604	GRD	
307	0.579	GRD	
308	0.29	GRD	
309	0.376	GRD	
310	12.54	GRD	
311	19.88	GRD	
312	1.099	GRD	
313	9.523	GRD	
314	0.333	GRD	
315	0.289	GRD	
316	3.122	GRD	
317	2.646	GRD	
318	10	GRD	
319	0.234	GRD	
320	0.225	GRD	
321	0.575	GRD	
322	0.211	VEN	
323	0.418	GRD	
324	0.291	GRD	
325	0.511	GRD	
326	0.498	GRD	
327	0.741	GRD	
328	0.279	GRD	
329	0.181	GRD	
330	0.231	GRD	
331	0.259	GRD	
332	0.322	GRD	
333	0.303	GRD	
334	0.389	GRD	
335	1.48	GRD	
336	2.657	GRD	rubble

Depth (m)	Magnetic Susceptibility	Unit	Comments
337	6.087	GRD	
338	0.724	GRD	
339	7.023	GRD	
340	0.693	GRD	
341	1.938	GRD	
342	1.009	GRD	
343	3.241	GRD	
344	9.792	GRD	
345	0.222	GRD	
346	0.458	GRD	
347	0.373	GRD	
348	0.721	GRD	
349	0.686	GRD	
350	22.96	GRD	
351	11.72	GRD	
352	0.638	GRD	
353	2.295	GRD	
354	0.679	GRD	
355	12.77	GRD	
356	0.768	GRD	
357	0.377	GRD	
358	0.42	GRD	
359	11.03	GRD	
360	8.161	GRD	
361	1.342	GRD	
362	8.459	GRD	
363	0.856	GRD	
364	2.959	GRD	
365	7.87	GRD	
366	6.041	GRD	
367	15.44	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
368	11.17	GRD	
369	2.848	GRD	
370	29.89	GRD	
371	26.98	GRD	
372	4	GRD	
373	17.18	GRD	rubbly
374	24.61	GRD	
375	0.231	GRD	
376	28.73	GRD	
377	18.94	GRD	
378	28.58	GRD	
379	30.05	GRD	
380	24.94	GRD	
381	24.95	GRD	
382	19.82	GRD	
383	21.33	GRD	
384	0.357	GRD	
385	20.88	GRD	
386	36.77	GRD	
387	28.03	GRD	
388	23.68	GRD	
389	7.528	GRD	
390	10.71	GRD	
391	5.372	GRD	
392	15.19	GRD	
393	10.37	GRD	
394	0.771	GRD	
395	6.518	GRD	
396	28.08	GRD	
397	11.96	GRD	
398	1.803	GRD	
399	0.865	GRD	
400	20.16	GRD	
401	1.112	GRD	
402	0.869	GRD	
403	0.666	GRD	
404	0.661	GRD	
405	0.498	GRD	
406	0.235	GRD	
407	0.252	GRD	
408	0.65	GRD	
409	0.799	GRD	
410	0.954	GRD	
411	0.483	GRD	
412	0.216	GRD	
413	0.278	GRD	
414	0.283	GRD	
415	0.543	GRD	
416	0.27	GRD	
417	0.262	GRD	
418	2.054	GRD	
419	2.405	GRD	
420	14.41	GRD	
421	0.83	GRD	
422	17.99	GRD	
423	0.972	GRD	
424	3.406	GRD	
425	5.808	GRD	
426	14.76	GRD	
427	8.538	GRD	
428	10.74	GRD	
429	17.03	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
430	17.19	GRD	
431	23.5	GRD	
432	28.27	GRD	
433	23.62	GRD	
434	0.844	GRD	
435	30.67	GRD	
436	5.754	GRD	
437	9.043	GRD	
438	0.86	GRD	
439	0.95	GRD	
440	0.363	GRD	
441	5.642	GRD	
442	9.51	GRD	
443	0.347	GRD	
444	0.824	GRD	
445	0.772	GRD	
446	6.73	GRD	
447	3.312	GRD	
448	1.009	GRD	
449	4.794	GRD	
450	2.263	GRD	
451	16.31	GRD	
452	24.49	GRD	
453	22.29	GRD	
454	19.02	GRD	
455	19.34	GRD	
456	18.54	GRD	
457	1.125	GRD	
458	0.708	GRD	
459	16.96	GRD	
460	0.553	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
461	0.259	QFP	
462	0.263	QFP	
463	0.356	QFP	
464	0.365	QFP	
465	0.271	QFP	
466	0.218	QFP	
467	0.275	QFP	
468	0.298	QFP	
469	0.409	QFP	
470	0.237	QFP	
471	0.238	QFP	
472	0.227	QFP	
473	0.302	QFP	
474	0.338	QFP	
475	0.242	QFP	
476	0.24	QFP	
477	0.372	QFP	
478	0.38	GRD	
479	6.626	GRD	
480	0.481	GRD	
481	17.43	GRD	
482	27.7	GRD	
483	15.3	GRD	
484	19.65	GRD	
485	22.84	GRD	
486	12.23	GRD	
487	42.21	GRD	
488	0.537	GRD	
489	0.623	GRD	
490	3.534	GRD	
491	0.424	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
492	9.173	GRD	
493	8.184	GRD	
494	0.608	GRD	
495	30.33	GRD	
496	32.14	GRD	
497	0.834	GRD	
498	0.696	GRD	
499	0.724	GRD	
500	0.509	GRD	
501	9.038	GRD	
502	1.12	GRD	
503	6.852	GRD	
504	5.232	GRD	
505	12.24	GRD	
506	0.807	GRD	
507	21.01	GRD	
508	28.64	GRD	
509	11.99	GRD	
510	1.621	GRD	
511	0.452	GRD	
512	0.511	GRD	
513	3.065	GRD	
514	13.35	GRD	
515	3.944	GRD	
516	0.532	GRD	
517	1.564	GRD	
518	1.719	GRD	
519	18.77	GRD	
520	0.911	GRD	
521	0.337	GRD	
522	0.336	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
523	0.276	GRD	
524	0.563	QFP	
525	0.41	QFP	
526	0.328	QFP	
527	0.821	QFP	
528	0.908	GRD	
529	0.554	FLT	
530	0.23	FLT	
531	0.183	GRD	
532	0.161	GRD	
533	1.348	GRD	
534	0.322	QFP	
535	0.285	QFP	
536	0.246	QFP	
537	4.037	QFP	
538	0.303	QFP	
539	0.284	QFP	
540	0.671	QFP	
541	0.76	QFP	
542	0.456	GRD	
543	0.681	GRD	
544	10.66	GRD	
545	1.023	GRD	
546	9.54	GRD	
547	0.702	GRD	
548	21.56	GRD	
549	19.32	GRD	
550	19.61	GRD	
551	20.08	GRD	
552	18.09	GRD	
553	20.98	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
554	17.65	GRD	
555	17.51	GRD	
556	6.52	GRD	
557	29.91	GRD	
558	5.986	GRD	
559	24.88	GRD	
560	6.329	GRD	
561	32.2	GRD	
562	23.03	GRD	
563	32.4	GRD	
564	1.157	GRD	
565	39.32	GRD	
566	24.3	GRD	
567	24.9	GRD	
568	7.029	GRD	
569	25.82	GRD	
570	23.12	GRD	
571	24.35	GRD	
572	28.29	GRD	
573	14.24	GRD	
574	25.63	GRD	
575	10.9	GRD	
576	20.45	GRD	
577	27.19	GRD	
578	20.6	GRD	
579	1.492	GRD	
580	3.269	GRD	
581	28.7	GRD	
582	32.43	GRD	
583	33.72	GRD	
584	12.65	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
585	16.6	GRD	
586	17.56	GRD	
587	14.31	GRD	
588	18.39	GRD	
589	3.649	GRD	
590	12.96	GRD	
591	27.49	GRD	
592	17.19	GRD	
593	26.71	GRD	
594	9.635	GRD	
595	20.56	GRD	
596	8.081	GRD	
597	26.73	GRD	
598	14.83	GRD	
599	31.32	GRD	
600	20.97	GRD	
601	3.515	GRD	
602	4.356	GRD	
603	7.671	GRD	
604	6.587	GRD	
605	14.83	GRD	
606	1.857	GRD	
607	22.76	GRD	
608	0.568	VEN	
609	0.24	QFP	
610	0.277	QFP	
611	0.351	QFP	
612	0.295	QFP	
613	0.274	QFP	
614	0.308	QFP	
615	0.546	BXA	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
616	2.499	GRD	
617	8.02	GRD	
618	1.969	GRD	
619	3.327	GRD	
620	6.818	GRD	
621	0.561	GRD	
622	3.756	GRD	
623	0.46	GRD	
624	0.353	GRD	
625	0.352	GRD	
626	0.436	GRD	
627	0.205	GRD	
628	0.517	GRD	
629	1.867	GRD	
630	0.753	GRD	
631	0.812	GRD	
632	0.932	GRD	
633	0.411	GRD	
634	0.702	GRD	
635	0.912	GRD	
636	0.607	GRD	
637	2.054	GRD	
638	0.442	GRD	
639	3.592	GRD	
640	0.438	GRD	
641	0.431	GRD	
642	0.308	GRD	
643	0.334	GRD	
644	0.786	VOL	
645	1.445	VOL	
646	0.51	VOL	
647	1.683	VOL	
648	1.637	VOL	
649	2.549	QFP	
650	1.637	GRD	
651	0.519	VOL	
652	0.42	GRD	
653	0.503	GRD	
654	6.253	GRD	
655	0.453	GRD	
656	0.592	GRD	
657	0.434	GRD	
658	0.529	GRD	
659	2.955	GRD	
660	4.68	GRD	
661	4.82	GRD	
662	2.569	GRD	
663	1.011	GRD	
664	4.092	QFP	
665	1.136	QFP	
666	1.53	QFP	
667	0.538	QFP	
668	0.528	QFP	
669	0.604	GRD	
670	0.583	GRD	
671	17.28	GRD	
672	14.31	GRD	
673	0.989	GRD	
674	16.03	GRD	
675	2.14	GRD	
676	0.528	GRD	
677	0.882	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
678	0.516	GRD	
679	0.371	GRD	
680	0.448	GRD	
681	0.651	GRD	
682	0.755	GRD	
683	0.497	GRD	
684	0.462	GRD	
685	0.765	VEN	
686	1.292	GRD	
687	0.512	GRD	
688	0.991	VEN	
689	3.694	VEN	
690	12.85	GRD	
691	37.8	GRD	
692	23.03	GRD	
693	0.6	GRD	
694	16.29	GRD	
695	2.568	GRD	
696	0.647	GRD	
697	1.808	GRD	
698	0.213	GRD	
699	3.316	GRD	
700	0.387	GRD	
701	0.865	GRD	
702	2.553	GRD	
703	2.857	GRD	
704	42.78	GRD	
705	1.047	GRD	
706	23.26	GRD	
707	17.8	GRD	
708	12.41	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
709	6.746	GRD	
710	26.06	GRD	
711	13.4	GRD	
712	29.53	GRD	
713	21.19	GRD	
714	5.651	GRD	
715	19.55	GRD	
716	5.901	GRD	
717	3.667	GRD	
718	9.468	GRD	
719	29.9	GRD	
720	31.14	GRD	
721	24.62	GRD	
722	39.96	GRD	
723	41.26	GRD	
724	27.65	GRD	
725	23.43	GRD	
726	30.56	GRD	
727	27.04	GRD	
728	36.87	GRD	
729	6.086	GRD	
730	0.22	SIL	
731	0.17	SIL	
732	0.235	SIL	
733	0.249	SIL	
734	0.339	SIL	
734	0.339	GRD	
735	1.386	GRD	
736	1.765	GRD	
737	0.735	GRD	
738	33.34	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
739	4.775	GRD	
740	0.301	GRD	
741	0.203	BXA	
742	2.076	GRD	
743	0.279	GRD	
744	0.336	GRD	
745	7.938	GRD	
746	2.033	GRD	
747	0.315	GRD	
748	0.412	GRD	
749	0.513	GRD	
750	14.24	GRD	
751	30.37	GRD	
752	40.37	GRD	
753	1.178	GRD	
754	0.432	GRD	
755	1.341	GRD	
756	6.204	GRD	
757	23.95	GRD	
758	46.71	GRD	
759	3.388	GRD	
760	2.059	GRD	
761	0.271	GRD	
762	0.299	GRD	
763	0.176	GRD	
764	0.479	GRD	
765	0.568	GRD	
766	0.929	GRD	
767	9.284	GRD	
768	13.8	GRD	
769	3.043	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
770	0.21	GRD	
771	0.257	GRD	
772	0.31	GRD	
773	1.441	GRD	
774	1.946	GRD	
775	0.377	GRD	
776	0.312	GRD	
777	0.707	GRD	
778	2.997	GRD	
779	0.737	GRD	
780	1.282	GRD	
781	9.046	GRD	
782	4.95	GRD	
783	1.295	GRD	
784	12.36	GRD	
785	0.96	GRD	
786	0.37	GRD	
787	0.808	GRD	
788	0.504	GRD	
789	0.313	QFP	
790	0.626	QFP	
791	0.517	QFP	
792	0.307	QFP	
793	0.797	QFP	
794	0.438	QFP	
795	0.323	QFP	
796	0.24	QFP	
797	0.201	QFP	
798	2.201	QFP	
799	0.332	QFP	
800	0.257	QFP	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
801	0.289	QFP	
802	0.773	QFP	
803	0.552	QFP	
804	0.348	QFP	
805	0.641	QFP	
806	0.402	QFP	
807	0.316	QFP	
808	0.313	QFP	
809	3.226	QFP	
810	1.207	QFP	
811	0.306	QFP	
812	1.542	QFP	
813	0.191	QFP	
814	0.921	FEL	
815	0.433	FEL	
816	0.202	FEL	
817	0.177	FEL	
818	2.348	FEL	
819	0.162	FEL	
820	0.1	FEL	
821	0.191	FEL	
822	0.312	FEL	
823	0.213	FEL	
824	2.566	FEL	
825	0.209	FEL	
826	0.185	FEL	
827	0.431	FEL	
828	0.321	FEL	
829	0.348	FEL	
830	0.555	FEL	
831	0.641	FEL	
832	0.216	FEL	
833	0.229	FEL	
834	0.162	FEL	
835	0.314	FEL	
836	0.598	FEL	
837	0.23	FEL	
838	0.11	FEL	
839	1.129	FEL	
840	0.342	FEL	
841	0.509	FEL	
842	0.294	FEL	
843	0.379	FEL	
844	4.141	FEL	
845	0.345	FEL	
846	0.385	FEL	
847	1.186	FEL	
848	0.221	FEL	
849	0.267	FEL	
850	0.18	FEL	
851	0.19	FEL	
852	4.4	FEL	
853	0.278	FEL	
854	0.175	FEL	
855	0.21	FEL	
856	0.279	FEL	
857	4.227	FEL	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W598621	☐	20-060	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304701	☐	20-077	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304712	☐	20-078	LOW GRADE	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304717	☐	20-078	LOW GRADE	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304746	☐	20-078	LOW GRADE		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304750	☐	20-079	LOW	Klaza20	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598580	☐	20-057	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598588	☐	20-057	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304688	☐	20-077	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598617	☐	20-060	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598662	☐	20-062	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598642	☐	20-060	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598676	☐	20-062	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700520	☐	20-071	High Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598697	☐	20-063	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598712	☐	20-063	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598720	☐	20-063	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598738	☐	20-065	Low Grade		☑	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W598744	☐	20-065	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598604	☐	20-057	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304532	☐	20-068	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700775	☐	20-036	High Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700787	☐	20-071	High Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700793	☐	20-071	High Grade	Klaza20 20-C	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	B700800	☐	20-079	LOW	Klaza20	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304241	☐	20-076	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304254	☐	20-079	LOW		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304506	☐	20-065	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304679	☐	20-077	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304525	☐	20-068	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304554	☐	20-068	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304574	☐	20-069	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304578	☐	20-069	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304596	☐	20-069	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304607	☐	20-074	Low Grade	Klaza20 20-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304627	☐	20-074	Low Grade	Klaza20 20-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304638	☐	20-074	Low Grade		☑	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	C304642	☐	20-076	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304658	☐	20-076	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598689	☐	20-062	Low Grade		☑	☐	☐
7.30	8.80	1.50	GRD	1.39	93	W598561	☐	20-055	Low Grade		☐	☐	☐
8.80	9.30	0.50	GRD	0.50	100	W598562	☐	20-055	Low Grade		☐	☐	☐
9.30	10.80	1.50	GRD	1.45	97	W598563	☐	20-055	Low Grade		☐	☐	☐
30.40	31.90	1.50	GRD	1.40	93	W598564	☐	20-055	Low Grade		☐	☐	☐
31.90	32.40	0.50	GRD	0.50	100	W598565	☐	20-055	Low Grade		☐	☐	☐
32.40	33.00	0.60	GRD	0.60	100	W598566	☐	20-055	Low Grade		☐	☐	☐
33.00	34.50	1.50	GRD	1.39	93	W598567	☐	20-055	Low Grade		☐	☐	☐
37.35	38.85	1.50	GRD	1.50	100	W598568	☐	20-055	Low Grade		☐	☐	☐
38.85	39.35	0.50	GRD	0.50	100	W598569	☐	20-055	Low Grade		☐	☐	☐
39.35	39.85	0.50	GRD	0.47	94	W598570	☐	20-055	Low Grade		☐	☐	☐
39.85	40.40	0.55	GRD	0.50	91	W598571	☐	20-057	Low Grade		☐	☐	☐
40.40	40.90	0.50	GRD	0.46	92	W598572	☐	20-057	Low Grade		☐	☐	☐
40.40	40.90	0.50	GRD	0.46	92	W598573	☐	20-057	Low Grade		☐	☑	☐
40.90	41.75	0.85	GRD	0.75	88	W598574	☐	20-057	Low Grade		☐	☐	☐
41.75	42.25	0.50	GRD	0.50	100	W598575	☐	20-057	Low Grade		☐	☐	☐
42.25	43.75	1.50	GRD	1.43	95	W598576	☐	20-057	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
75.35	76.85	1.50	GRD	1.50	100	W598577	☐	20-057	Low Grade		☐	☐	☐
76.85	77.35	0.50	GRD	0.49	98	W598578	☐	20-057	Low Grade		☐	☐	☐
77.35	78.85	1.50	GRD	1.30	87	W598579	☐	20-057	Low Grade		☐	☐	☐
86.25	87.75	1.50	GRD	1.40	93	W598581	☐	20-057	Low Grade		☐	☐	☐
87.75	89.25	1.50	GRD	1.21	81	W598582	☐	20-057	Low Grade		☐	☐	☐
89.25	90.75	1.50	BXA	1.12	75	W598583	☐	20-057	Low Grade		☐	☐	☐
90.75	91.75	1.00	QFP	0.93	93	W598584	☐	20-057	Low Grade		☐	☐	☐
116.40	117.90	1.50	GRD	1.45	97	W598585	☐	20-057	Low Grade		☐	☐	☐
117.90	118.40	0.50	GRD	0.50	100	W598586	☐	20-057	Low Grade		☐	☐	☐
118.40	119.90	1.50	GRD	1.23	82	W598587	☐	20-057	Low Grade		☐	☐	☐
129.00	130.40	1.40	GRD	1.39	99	W598589	☐	20-057	Low Grade		☐	☐	☐
130.40	130.90	0.50	GRD	0.50	100	W598590	☐	20-057	Low Grade		☐	☐	☐
130.90	132.10	1.20	GRD	1.20	100	W598591	☐	20-057	Low Grade		☐	☐	☐
132.10	132.60	0.50	GRD	0.43	86	W598592	☐	20-057	Low Grade		☐	☐	☐
132.60	134.10	1.50	GRD	1.48	99	W598593	☐	20-057	Low Grade		☐	☐	☐
134.10	135.15	1.05	GRD	1.05	100	W598594	☐	20-057	Low Grade		☐	☐	☐
134.10	135.15	1.05	GRD	1.05	100	W598595	☐	20-057	Low Grade		☐	☐	☑
135.15	135.65	0.50	GRD	0.44	88	W598596	☐	20-057	Low Grade		☐	☐	☐
135.65	137.15	1.50	GRD	1.50	100	W598597	☐	20-057	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
137.15	138.55	1.40	GRD	1.36	97	W598598	☐	20-057	Low Grade		☐	☐	☐
138.55	140.05	1.50	GRD	1.50	100	W598599	☐	20-057	Low Grade		☐	☐	☐
140.05	140.55	0.50	GRD	0.50	100	W598600	☐	20-057	Low Grade		☐	☐	☐
140.55	142.05	1.50	GRD	1.42	95	W598601	☐	20-057	Low Grade		☐	☐	☐
147.10	148.60	1.50	QFP	1.33	89	W598602	☐	20-057	Low Grade		☐	☐	☐
148.60	149.10	0.50	QFP	0.50	100	W598603	☐	20-057	Low Grade		☐	☐	☐
149.10	150.10	1.00	GRD	1.00	100	W598605	☐	20-057	Low Grade		☐	☐	☐
150.10	151.60	1.50	GRD	1.38	92	W598606	☐	20-057	Low Grade		☐	☐	☐
168.10	169.60	1.50	GRD	1.44	96	W598607	☐	20-057	Low Grade		☐	☐	☐
169.60	170.10	0.50	GRD	0.36	72	W598608	☐	20-057	Low Grade		☐	☐	☐
170.10	170.70	0.60	GRD	0.58	97	W598609	☐	20-057	Low Grade		☐	☐	☐
170.70	172.10	1.40	GRD	1.20	86	W598610	☐	20-057	Low Grade		☐	☐	☐
172.10	173.00	0.90	GRD	0.86	96	W598611	☐	20-060	Low Grade		☐	☐	☐
173.00	174.00	1.00	GRD	0.89	89	W598612	☐	20-060	Low Grade		☐	☐	☐
174.00	175.50	1.50	GRD	1.31	87	W598613	☐	20-060	Low Grade		☐	☐	☐
177.60	179.10	1.50	GRD	1.43	95	W598614	☐	20-060	Low Grade		☐	☐	☐
179.10	179.60	0.50	GRD	0.46	92	W598615	☐	20-060	Low Grade		☐	☐	☐
179.60	180.90	1.30	GRD	1.27	98	W598616	☐	20-060	Low Grade		☐	☐	☐
180.90	181.40	0.50	GRD	0.50	100	B700756	☐	20-036	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
181.40	182.80	1.40	GRD	1.28	91	W598618	☐	20-060	Low Grade		☐	☐	☐
182.80	183.30	0.50	GRD	0.50	100	W598619	☐	20-060	Low Grade		☐	☐	☐
183.30	183.80	0.50	VEN	0.47	94	W598620	☐	20-060	Low Grade		☐	☐	☐
183.80	185.30	1.50	GRD	1.45	97	W598622	☐	20-060	Low Grade		☐	☐	☐
185.30	186.75	1.45	GRD	1.45	100	W598623	☐	20-060	Low Grade		☐	☐	☐
186.75	187.25	0.50	GRD	0.45	90	W598624	☐	20-060	Low Grade		☐	☐	☐
187.25	188.75	1.50	GRD	1.49	99	W598625	☐	20-060	Low Grade		☐	☐	☐
192.05	193.55	1.50	GRD	1.44	96	W598626	☐	20-060	Low Grade		☐	☐	☐
193.55	194.05	0.50	GRD	0.49	98	W598627	☐	20-060	Low Grade		☐	☐	☐
193.55	194.05	0.50	GRD	0.49	98	W598628	☐	20-060	Low Grade		☐	☑	☐
194.05	195.55	1.50	GRD	1.46	97	W598629	☐	20-060	Low Grade		☐	☐	☐
195.55	196.60	1.05	GRD	1.05	100	W598630	☐	20-060	Low Grade		☐	☐	☐
196.60	197.75	1.15	GRD	1.04	90	W598631	☐	20-060	Low Grade		☐	☐	☐
197.75	199.25	1.50	GRD	1.45	97	W598632	☐	20-060	Low Grade		☐	☐	☐
199.25	199.75	0.50	GRD	0.50	100	W598633	☐	20-060	Low Grade		☐	☐	☐
199.25	199.75	0.50	GRD	0.50	100	W598634	☐	20-060	Low Grade		☐	☐	☑
199.75	201.25	1.50	GRD	1.48	99	W598635	☐	20-060	Low Grade		☐	☐	☐
205.75	207.25	1.50	GRD	1.45	97	W598636	☐	20-060	Low Grade		☐	☐	☐
207.25	208.00	0.75	GRD	0.75	100	W598637	☐	20-060	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
208.00	208.50	0.50	GRD	0.45	90	B700757	☐	20-036	High Grade		☐	☐	☐
208.50	209.00	0.50	GRD	0.50	100	W598638	☐	20-060	Low Grade		☐	☐	☐
209.00	209.50	0.50	GRD	0.48	96	W598639	☐	20-060	Low Grade		☐	☐	☐
209.50	210.70	1.20	GRD	1.20	100	W598640	☐	20-060	Low Grade		☐	☐	☐
210.70	211.20	0.50	GRD	0.50	100	W598641	☐	20-060	Low Grade		☐	☐	☐
211.20	212.70	1.50	GRD	1.50	100	W598643	☐	20-060	Low Grade		☐	☐	☐
217.60	219.10	1.50	GRD	1.50	100	W598644	☐	20-060	Low Grade		☐	☐	☐
219.10	219.60	0.50	GRD	0.50	100	W598645	☐	20-060	Low Grade		☐	☐	☐
219.60	220.40	0.80	GRD	0.79	99	W598646	☐	20-060	Low Grade		☐	☐	☐
220.40	220.90	0.50	GRD	0.50	100	W598647	☐	20-060	Low Grade		☐	☐	☐
220.90	221.40	0.50	GRD	0.50	100	W598648	☐	20-060	Low Grade		☐	☐	☐
221.40	222.90	1.50	GRD	1.31	87	W598649	☐	20-060	Low Grade		☐	☐	☐
222.90	224.05	1.15	GRD	1.15	100	W598650	☐	20-060	Low Grade		☐	☐	☐
224.05	225.55	1.50	GRD	1.48	99	W598651	☐	20-062	Low Grade		☐	☐	☐
225.55	226.05	0.50	GRD	0.48	96	W598652	☐	20-062	Low Grade		☐	☐	☐
226.05	227.55	1.50	GRD	1.48	99	W598653	☐	20-062	Low Grade		☐	☐	☐
227.55	228.40	0.85	GRD	0.85	100	W598654	☐	20-062	Low Grade		☐	☐	☐
228.40	229.40	1.00	GRD	0.97	97	W598655	☐	20-062	Low Grade		☐	☐	☐
229.40	230.90	1.50	GRD	1.39	93	W598656	☐	20-062	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
230.90	231.40	0.50	GRD	0.44	88	W598657	☐	20-062	Low Grade		☐	☐	☐
230.90	231.40	0.50	GRD	0.44	88	W598658	☐	20-062	Low Grade		☐	☑	☐
231.40	232.90	1.50	GRD	1.43	95	W598659	☐	20-062	Low Grade		☐	☐	☐
232.90	234.30	1.40	GRD	1.38	99	W598660	☐	20-062	Low Grade		☐	☐	☐
234.30	234.80	0.50	GRD	0.48	96	W598661	☐	20-062	Low Grade		☐	☐	☐
234.80	235.40	0.60	GRD	0.58	97	W598663	☐	20-062	Low Grade		☐	☐	☐
235.40	235.90	0.50	GRD	0.38	76	W598664	☐	20-062	Low Grade		☐	☐	☐
235.90	237.00	1.10	GRD	0.99	90	W598665	☐	20-062	Low Grade		☐	☐	☐
237.00	237.50	0.50	GRD	0.49	98	W598666	☐	20-062	Low Grade		☐	☐	☐
237.50	238.20	0.70	GRD	0.65	93	B700758	☐	20-036	High Grade		☐	☐	☐
238.20	238.70	0.50	GRD	0.49	98	W598667	☐	20-062	Low Grade		☐	☐	☐
238.70	239.20	0.50	GRD	0.33	66	W598668	☐	20-062	Low Grade		☐	☐	☐
238.70	239.20	0.50	GRD	0.33	66	W598669	☐	20-062	Low Grade		☐	☐	☑
239.20	240.45	1.25	GRD	1.03	82	W598670	☐	20-062	Low Grade		☐	☐	☐
240.45	240.95	0.50	BXA	0.45	90	W598671	☐	20-062	Low Grade		☐	☐	☐
240.95	242.45	1.50	BXA	1.42	95	W598672	☐	20-062	Low Grade		☐	☐	☐
242.45	243.15	0.70	GRD	0.68	97	W598673	☐	20-062	Low Grade		☐	☐	☐
243.15	244.65	1.50	GRD	1.43	95	W598674	☐	20-062	Low Grade		☐	☐	☐
244.65	245.15	0.50	GRD	0.46	92	W598675	☐	20-062	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
245.15	246.65	1.50	GRD	1.50	100	W598677	☐	20-062	Low Grade		☐	☐	☐
255.95	257.45	1.50	GRD	1.43	95	W598678	☐	20-062	Low Grade		☐	☐	☐
257.45	257.95	0.50	GRD	0.45	90	W598679	☐	20-062	Low Grade		☐	☐	☐
257.95	259.45	1.50	GRD	1.42	95	W598680	☐	20-062	Low Grade		☐	☐	☐
259.45	260.35	0.90	GRD	0.88	98	W598681	☐	20-062	Low Grade		☐	☐	☐
260.35	260.85	0.50	GRD	0.50	100	W598682	☐	20-062	Low Grade		☐	☐	☐
260.85	262.35	1.50	GRD	1.44	96	W598683	☐	20-062	Low Grade		☐	☐	☐
268.80	270.30	1.50	GRD	1.24	83	W598684	☐	20-062	Low Grade		☐	☐	☐
270.30	270.80	0.50	GRD	0.44	88	W598685	☐	20-062	Low Grade		☐	☐	☐
270.80	272.30	1.50	GRD	1.15	77	W598686	☐	20-062	Low Grade		☐	☐	☐
274.40	275.40	1.00	GRD	0.95	95	W598687	☐	20-062	Low Grade		☐	☐	☐
275.40	276.90	1.50	GRD	1.40	93	W598688	☐	20-062	Low Grade		☐	☐	☐
276.90	277.45	0.55	VEN	0.54	98	B700759	☐	20-036	High Grade		☐	☐	☐
276.90	277.45	0.55	VEN	0.54	98	B700760	☐	20-036	High Grade		☐	☐	☑
277.45	278.95	1.50	GRD	1.40	93	W598690	☐	20-062	Low Grade		☐	☐	☐
293.50	295.00	1.50	GRD	1.25	83	W598691	☐	20-063	Low Grade		☐	☐	☐
295.00	295.70	0.70	GRD	0.68	97	B700761	☐	20-036	High Grade		☐	☐	☐
295.70	297.20	1.50	GRD	1.45	97	W598692	☐	20-063	Low Grade		☐	☐	☐
297.20	298.00	0.80	GRD	0.80	100	W598693	☐	20-063	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
298.00	299.00	1.00	GRD	0.98	98	W598694	☐	20-063	Low Grade		☐	☐	☐
299.00	299.50	0.50	GRD	0.50	100	W598695	☐	20-063	Low Grade		☐	☐	☐
299.50	301.00	1.50	GRD	1.28	85	W598696	☐	20-063	Low Grade		☐	☐	☐
305.05	306.55	1.50	GRD	1.50	100	W598698	☐	20-063	Low Grade		☐	☐	☐
306.55	307.05	0.50	GRD	0.49	98	W598699	☐	20-063	Low Grade		☐	☐	☐
307.05	307.60	0.55	GRD	0.55	100	W598700	☐	20-063	Low Grade		☐	☐	☐
307.60	308.10	0.50	GRD	0.46	92	W598701	☐	20-063	Low Grade		☐	☐	☐
308.10	308.75	0.65	GRD	0.64	98	B700762	☐	20-036	High Grade		☐	☐	☐
308.75	309.25	0.50	GRD	0.50	100	B700763	☐	20-036	High Grade		☐	☐	☐
309.25	310.75	1.50	GRD	1.47	98	W598702	☐	20-063	Low Grade		☐	☐	☐
309.25	310.75	1.50	GRD	1.47	98	W598703	☐	20-063	Low Grade		☐	☐	☑
319.10	320.55	1.45	GRD	1.44	99	W598704	☐	20-063	Low Grade		☐	☐	☐
320.55	321.05	0.50	GRD	0.49	98	W598705	☐	20-063	Low Grade		☐	☐	☐
321.05	322.55	1.50	GRD	1.50	100	W598706	☐	20-063	Low Grade		☐	☐	☐
322.55	323.30	0.75	BXA	0.71	95	W598707	☐	20-063	Low Grade		☐	☐	☐
323.30	324.79	1.49	GRD	1.46	98	W598708	☐	20-063	Low Grade		☐	☐	☐
324.79	325.40	0.61	GRD	0.59	97	W598709	☐	20-063	Low Grade		☐	☐	☐
325.40	325.90	0.50	GRD	0.43	86	W598710	☐	20-063	Low Grade		☐	☐	☐
325.90	326.90	1.00	GRD	0.97	97	W598711	☐	20-063	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
326.90	327.80	0.90	GRD	0.90	100	W598713	☐	20-063	Low Grade		☐	☐	☐
327.80	328.35	0.55	GRD	0.53	96	W598714	☐	20-063	Low Grade		☐	☐	☐
328.35	329.35	1.00	GRD	0.89	89	W598715	☐	20-063	Low Grade		☐	☐	☐
329.35	330.00	0.65	GRD	0.65	100	W598716	☐	20-063	Low Grade		☐	☐	☐
330.00	331.10	1.10	GRD	1.08	98	W598717	☐	20-063	Low Grade		☐	☐	☐
331.10	331.60	0.50	GRD	0.50	100	W598718	☐	20-063	Low Grade		☐	☐	☐
331.60	333.10	1.50	GRD	1.41	94	W598719	☐	20-063	Low Grade		☐	☐	☐
340.60	342.10	1.50	GRD	1.48	99	W598721	☐	20-063	Low Grade		☐	☐	☐
342.10	342.60	0.50	GRD	0.48	96	W598722	☐	20-063	Low Grade		☐	☐	☐
342.10	342.60	0.50	GRD	0.48	96	W598723	☐	20-063	Low Grade		☐	☑	☐
342.60	344.10	1.50	GRD	1.45	97	W598724	☐	20-063	Low Grade		☐	☐	☐
344.10	344.90	0.80	GRD	0.77	96	W598725	☐	20-063	Low Grade		☐	☐	☐
344.90	345.65	0.75	GRD	0.75	100	W598726	☐	20-063	Low Grade		☐	☐	☐
345.65	347.15	1.50	GRD	1.45	97	W598727	☐	20-063	Low Grade		☐	☐	☐
347.15	347.65	0.50	GRD	0.49	98	B700764	☐	20-036	High Grade		☐	☐	☐
347.15	347.65	0.50	GRD	0.49	98	B700765	☐	20-036	High Grade		☐	☑	☐
347.65	349.15	1.50	GRD	1.43	95	W598728	☐	20-063	Low Grade		☐	☐	☐
349.39	350.05	0.66	GRD	0.65	98	W598729	☐	20-063	Low Grade		☐	☐	☐
350.05	350.55	0.50	GRD	0.49	98	W598730	☐	20-063	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
350.55	351.85	1.30	GRD	1.30	100	W598731	☐	20-065	Low Grade		☐	☐	☐
351.85	352.35	0.50	GRD	0.49	98	B700766	☐	20-036	High Grade		☐	☐	☐
352.35	353.35	1.00	GRD	0.99	99	W598732	☐	20-065	Low Grade		☐	☐	☐
353.35	354.30	0.95	GRD	0.92	97	W598733	☐	20-065	Low Grade		☐	☐	☐
354.30	355.20	0.90	GRD	0.90	100	W598734	☐	20-065	Low Grade		☐	☐	☐
355.20	356.70	1.50	GRD	1.47	98	W598735	☐	20-065	Low Grade		☐	☐	☐
356.70	357.20	0.50	GRD	0.50	100	W598736	☐	20-065	Low Grade		☐	☐	☐
357.20	357.85	0.65	GRD	0.59	91	W598737	☐	20-065	Low Grade		☐	☐	☐
357.85	358.35	0.50	GRD	0.50	100	B700767	☐	20-036	High Grade		☐	☐	☐
358.35	359.85	1.50	GRD	1.42	95	W598739	☐	20-065	Low Grade		☐	☐	☐
359.85	360.70	0.85	GRD	0.85	100	W598740	☐	20-065	Low Grade		☐	☐	☐
360.70	361.65	0.95	GRD	0.94	99	W598741	☐	20-065	Low Grade		☐	☐	☐
361.65	363.15	1.50	GRD	1.49	99	W598742	☐	20-065	Low Grade		☐	☐	☐
363.15	363.65	0.50	GRD	0.50	100	W598743	☐	20-065	Low Grade		☐	☐	☐
363.65	365.15	1.50	GRD	1.48	99	W598745	☐	20-065	Low Grade		☐	☐	☐
382.35	383.85	1.50	GRD	1.46	97	W598746	☐	20-065	Low Grade		☐	☐	☐
383.85	384.35	0.50	GRD	0.50	100	W598747	☐	20-065	Low Grade		☐	☐	☐
384.35	385.85	1.50	GRD	1.45	97	W598748	☐	20-065	Low Grade		☐	☐	☐
389.00	390.50	1.50	GRD	1.49	99	W598749	☐	20-065	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
389.00	390.50	1.50	GRD	1.49	99	W598750	☐	20-065	Low Grade		☐	☐	☑
390.50	391.17	0.67	GRD	0.67	100	C304501	☐	20-065	Low Grade		☐	☐	☐
391.17	392.67	1.50	GRD	1.39	93	C304502	☐	20-065	Low Grade		☐	☐	☐
392.67	393.75	1.08	GRD	1.07	99	C304503	☐	20-065	Low Grade		☐	☐	☐
393.75	394.25	0.50	GRD	0.50	100	C304504	☐	20-065	Low Grade		☐	☐	☐
394.25	395.75	1.50	GRD	1.38	92	C304505	☐	20-065	Low Grade		☐	☐	☐
399.45	400.95	1.50	GRD	1.48	99	C304507	☐	20-065	Low Grade		☐	☐	☐
400.95	401.45	0.50	GRD	0.48	96	C304508	☐	20-065	Low Grade		☐	☐	☐
401.45	402.15	0.70	GRD	0.67	96	C304509	☐	20-065	Low Grade		☐	☐	☐
402.15	402.98	0.83	GRD	0.75	90	C304510	☐	20-065	Low Grade		☐	☐	☐
402.98	403.90	0.92	GRD, GRD	0.82	89	C304511	☐	20-065	Low Grade		☐	☐	☐
403.90	404.75	0.85	GRD	0.68	80	C304512	☐	20-065	Low Grade		☐	☐	☐
404.75	406.25	1.50	GRD	1.25	83	C304513	☐	20-065	Low Grade		☐	☐	☐
406.25	407.75	1.50	GRD	1.48	99	C304514	☐	20-065	Low Grade		☐	☐	☐
407.75	408.25	0.50	GRD	0.50	100	C304515	☐	20-065	Low Grade		☐	☐	☐
408.25	409.75	1.50	GRD	1.14	76	C304516	☐	20-065	Low Grade		☐	☐	☐
409.75	411.25	1.50	GRD	1.40	93	C304517	☐	20-065	Low Grade		☐	☐	☐
411.25	412.60	1.35	GRD	0.42	31	C304518	☐	20-065	Low Grade		☐	☐	☐
412.60	413.10	0.50	GRD	0.31	62	C304519	☐	20-065	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
412.60	413.10	0.50	GRD	0.31	62	C304520	☐	20-065	Low Grade		☐	☑	☐
413.10	413.60	0.50	GRD	0.49	98	C304581	☐	20-069	Low Grade		☐	☐	☐
413.60	414.95	1.35	GRD	0.61	45	C304582	☐	20-069	Low Grade		☐	☐	☐
414.95	416.00	1.05	GRD	0.59	56	B700773	☐	20-036	High Grade		☐	☐	☐
416.00	417.00	1.00	GRD	0.50	50	B700774	☐	20-036	High Grade		☐	☐	☐
417.00	418.50	1.50	GRD	1.30	87	C304521	☐	20-068	Low Grade		☐	☐	☐
418.50	420.00	1.50	GRD	1.45	97	C304522	☐	20-068	Low Grade		☐	☐	☐
420.00	421.50	1.50	GRD	1.33	89	C304523	☐	20-068	Low Grade		☐	☐	☐
421.50	423.00	1.50	GRD	1.44	96	C304524	☐	20-068	Low Grade		☐	☐	☐
423.00	424.50	1.50	GRD	1.15	77	C304526	☐	20-068	Low Grade		☐	☐	☐
424.50	426.00	1.50	GRD	1.35	90	C304527	☐	20-068	Low Grade		☐	☐	☐
426.00	427.50	1.50	GRD	1.37	91	C304528	☐	20-068	Low Grade		☐	☐	☐
427.50	428.50	1.00	GRD	0.88	88	C304529	☐	20-068	Low Grade		☐	☐	☐
428.50	430.00	1.50	GRD	1.17	78	C304530	☐	20-068	Low Grade		☐	☐	☐
430.00	431.50	1.50	GRD	1.42	95	C304531	☐	20-068	Low Grade		☐	☐	☐
435.85	437.35	1.50	GRD	1.39	93	C304533	☐	20-068	Low Grade		☐	☐	☐
437.35	437.85	0.50	GRD	0.50	100	C304534	☐	20-068	Low Grade		☐	☐	☐
437.85	439.35	1.50	GRD	1.50	100	C304535	☐	20-068	Low Grade		☐	☐	☐
439.35	440.45	1.10	GRD	0.75	68	C304536	☐	20-068	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
440.45	441.95	1.50	GRD	1.37	91	C304537	☐	20-068	Low Grade		☐	☐	☐
441.95	443.10	1.15	GRD	1.01	88	C304538	☐	20-068	Low Grade		☐	☐	☐
441.95	443.10	1.15	GRD	1.01	88	C304539	☐	20-068	Low Grade		☐	☐	☑
443.10	443.65	0.55	GRD	0.50	91	C304540	☐	20-068	Low Grade		☐	☐	☐
443.65	445.15	1.50	GRD	1.39	93	C304541	☐	20-068	Low Grade		☐	☐	☐
449.75	451.25	1.50	GRD	1.47	98	C304542	☐	20-068	Low Grade		☐	☐	☐
451.25	451.75	0.50	GRD	0.50	100	C304543	☐	20-068	Low Grade		☐	☐	☐
451.25	451.75	0.50	GRD	0.50	100	C304544	☐	20-068	Low Grade		☐	☑	☐
451.75	453.25	1.50	GRD	1.47	98	C304545	☐	20-068	Low Grade		☐	☐	☐
453.25	454.25	1.00	GRD	0.96	96	C304546	☐	20-068	Low Grade		☐	☐	☐
454.25	455.25	1.00	GRD	0.95	95	C304547	☐	20-068	Low Grade		☐	☐	☐
455.25	456.75	1.50	GRD	1.49	99	C304548	☐	20-068	Low Grade		☐	☐	☐
456.75	457.25	0.50	GRD	0.50	100	C304549	☐	20-068	Low Grade		☐	☐	☐
457.25	457.75	0.50	GRD	0.50	100	C304550	☐	20-068	Low Grade		☐	☐	☐
457.75	459.25	1.50	GRD	1.40	93	C304551	☐	20-068	Low Grade		☐	☐	☐
478.20	479.70	1.50	GRD	1.44	96	C304552	☐	20-068	Low Grade		☐	☐	☐
479.70	480.20	0.50	GRD	0.50	100	C304553	☐	20-068	Low Grade		☐	☐	☐
480.20	481.70	1.50	GRD	1.50	100	C304555	☐	20-068	Low Grade		☐	☐	☐
486.15	487.65	1.50	GRD	1.46	97	C304556	☐	20-068	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
487.65	488.15	0.50	GRD	0.49	98	B700776	☐	20-036	High Grade		☐	☐	☐
488.15	489.65	1.50	GRD	1.49	99	C304557	☐	20-068	Low Grade		☐	☐	☐
489.65	490.35	0.70	GRD	0.70	100	C304558	☐	20-068	Low Grade		☐	☐	☐
490.35	490.90	0.55	GRD	0.55	100	C304559	☐	20-068	Low Grade		☐	☐	☐
490.90	491.65	0.75	GRD	0.74	99	C304560	☐	20-068	Low Grade		☐	☐	☐
491.65	492.15	0.50	GRD	0.48	96	C304561	☐	20-069	Low Grade		☐	☐	☐
492.15	493.50	1.35	GRD	1.34	99	C304562	☐	20-069	Low Grade		☐	☐	☐
493.50	494.00	0.50	GRD	0.46	92	C304563	☐	20-069	Low Grade		☐	☐	☐
493.50	494.00	0.50	GRD	0.46	92	C304564	☐	20-069	Low Grade		☐	☑	☐
494.00	495.50	1.50	GRD	1.50	100	C304565	☐	20-069	Low Grade		☐	☐	☐
495.50	496.80	1.30	GRD	1.29	99	C304566	☐	20-069	Low Grade		☐	☐	☐
496.80	497.80	1.00	GRD	1.00	100	C304567	☐	20-069	Low Grade		☐	☐	☐
497.80	498.30	0.50	GRD	0.47	94	C304568	☐	20-069	Low Grade		☐	☐	☐
498.30	499.00	0.70	GRD	0.70	100	C304569	☐	20-069	Low Grade		☐	☐	☐
499.00	499.80	0.80	GRD	0.78	98	C304570	☐	20-069	Low Grade		☐	☐	☐
499.80	500.30	0.50	GRD	0.49	98	B700777	☐	20-036	High Grade		☐	☐	☐
500.30	501.80	1.50	GRD	1.34	89	C304571	☐	20-069	Low Grade		☐	☐	☐
501.80	503.00	1.20	GRD	1.20	100	C304572	☐	20-069	Low Grade		☐	☐	☐
503.00	503.50	0.50	GRD	0.49	98	C304573	☐	20-069	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
503.50	505.00	1.50	GRD	1.46	97	C304575	☐	20-069	Low Grade		☐	☐	☐
505.00	508.00	3.00	GRD	2.95	98	C304576	☐	20-069	Low Grade		☐	☐	☐
508.00	510.20	2.20	GRD	2.20	100	C304577	☐	20-069	Low Grade		☐	☐	☐
510.20	510.70	0.50	GRD	0.50	100	C304579	☐	20-069	Low Grade		☐	☐	☐
510.70	511.30	0.60	GRD	0.59	98	C304580	☐	20-069	Low Grade		☐	☐	☐
511.30	514.30	3.00	GRD	2.90	97	C304583	☐	20-069	Low Grade		☐	☐	☐
514.30	515.60	1.30	GRD	1.28	98	C304584	☐	20-069	Low Grade		☐	☐	☐
515.60	516.10	0.50	GRD	0.49	98	C304585	☐	20-069	Low Grade		☐	☐	☐
516.10	516.80	0.70	GRD	0.67	96	C304586	☐	20-069	Low Grade		☐	☐	☐
516.80	517.30	0.50	GRD	0.50	100	C304587	☐	20-069	Low Grade		☐	☐	☐
516.80	517.30	0.50	GRD	0.50	100	C304588	☐	20-069	Low Grade		☐	☐	☑
517.30	518.80	1.50	GRD	1.50	100	C304589	☐	20-069	Low Grade		☐	☐	☐
518.80	521.00	2.20	GRD	2.14	97	C304590	☐	20-069	Low Grade		☐	☐	☐
521.00	522.85	1.85	GRD	1.73	94	C304591	☐	20-069	Low Grade		☐	☐	☐
522.85	523.35	0.50	GRD	0.50	100	C304592	☐	20-069	Low Grade		☐	☐	☐
523.35	524.26	0.91	QFP	0.67	74	C304593	☐	20-069	Low Grade		☐	☐	☐
524.26	524.76	0.50	QFP	0.48	96	C304594	☐	20-069	Low Grade		☐	☐	☐
524.76	527.27	2.51	QFP	2.40	96	C304595	☐	20-069	Low Grade		☐	☐	☐
527.27	528.10	0.83	GRD, QFP	0.73	88	C304597	☐	20-069	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
528.10	528.60	0.50	GRD	0.48	96	B700784	☐	20-071	High Grade		☐	☐	☐
528.60	529.30	0.70	FLT	0.50	71	C304598	☐	20-069	Low Grade		☐	☐	☐
529.30	530.10	0.80	FLT, FLT	0.43	54	B700785	☐	20-071	High Grade		☐	☐	☐
530.10	531.10	1.00	FLT, GRD	1.00	100	C304599	☐	20-069	Low Grade		☐	☐	☐
531.10	532.42	1.32	GRD	1.17	89	C304600	☐	20-069	Low Grade		☐	☐	☐
532.42	532.92	0.50	GRD, QFP	0.28	56	C304601	☐	20-074	Low Grade		☐	☐	☐
532.92	533.38	0.46	GRD, QFP	0.33	72	C304602	☐	20-074	Low Grade		☐	☐	☐
533.38	533.90	0.52	GRD, QFP	0.48	92	C304603	☐	20-074	Low Grade		☐	☐	☐
533.90	534.40	0.50	QFP	0.49	98	C304604	☐	20-074	Low Grade		☐	☐	☐
534.40	537.40	3.00	QFP	2.71	90	C304605	☐	20-074	Low Grade		☐	☐	☐
537.40	539.70	2.30	QFP	2.25	98	C304606	☐	20-074	Low Grade		☐	☐	☐
539.70	541.09	1.39	QFP	1.05	76	C304608	☐	20-074	Low Grade		☐	☐	☐
541.09	542.10	1.01	GRD, QFP	0.94	93	C304609	☐	20-074	Low Grade		☐	☐	☐
542.10	543.55	1.45	GRD	1.44	99	C304610	☐	20-074	Low Grade		☐	☐	☐
543.55	545.05	1.50	GRD	1.50	100	C304611	☐	20-074	Low Grade		☐	☐	☐
545.05	545.55	0.50	GRD	0.50	100	B700786	☐	20-071	High Grade		☐	☐	☐
545.55	546.40	0.85	GRD	0.80	94	C304612	☐	20-074	Low Grade		☐	☐	☐
545.55	546.40	0.85	GRD	0.80	94	C304613	☐	20-074	Low Grade		☐	☐	☑
546.40	547.20	0.80	GRD	0.80	100	C304614	☐	20-074	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
547.20	547.92	0.72	GRD	0.50	69	B700788	☐	20-071	High Grade		☐	☐	☐
547.92	549.40	1.48	GRD	1.48	100	C304615	☐	20-074	Low Grade		☐	☐	☐
549.40	552.40	3.00	GRD	2.92	97	C304616	☐	20-074	Low Grade		☐	☐	☐
552.40	554.10	1.70	GRD	1.70	100	C304617	☐	20-074	Low Grade		☐	☐	☐
554.10	555.85	1.75	GRD	1.66	95	C304618	☐	20-074	Low Grade		☐	☐	☐
555.85	557.35	1.50	GRD	1.47	98	C304619	☐	20-074	Low Grade		☐	☐	☐
557.35	557.85	0.50	GRD	0.48	96	C304620	☐	20-074	Low Grade		☐	☐	☐
557.35	557.85	0.50	GRD	0.48	96	C304621	☐	20-074	Low Grade		☐	☑	☐
557.85	558.35	0.50	GRD	0.49	98	C304622	☐	20-074	Low Grade		☐	☐	☐
558.35	560.00	1.65	GRD	1.64	99	C304623	☐	20-074	Low Grade		☐	☐	☐
560.00	563.00	3.00	GRD	2.98	99	C304624	☐	20-074	Low Grade		☐	☐	☐
563.00	566.00	3.00	GRD	2.99	100	C304625	☐	20-074	Low Grade		☐	☐	☐
566.00	569.00	3.00	GRD	2.97	99	C304626	☐	20-074	Low Grade		☐	☐	☐
569.00	572.00	3.00	GRD	2.93	98	C304628	☐	20-074	Low Grade		☐	☐	☐
572.00	573.80	1.80	GRD	1.78	99	C304629	☐	20-074	Low Grade		☐	☐	☐
573.80	575.30	1.50	GRD	1.46	97	C304630	☐	20-074	Low Grade		☐	☐	☐
575.30	575.80	0.50	GRD	0.49	98	C304631	☐	20-074	Low Grade		☐	☐	☐
575.80	577.30	1.50	GRD	1.50	100	C304632	☐	20-074	Low Grade		☐	☐	☐
577.30	580.30	3.00	GRD	2.95	98	C304633	☐	20-074	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
580.30	583.20	2.90	GRD	2.87	99	C304634	☐	20-074	Low Grade		☐	☐	☐
583.20	586.20	3.00	GRD	2.90	97	C304635	☐	20-074	Low Grade		☐	☐	☐
586.20	589.20	3.00	GRD	3.00	100	C304636	☐	20-074	Low Grade		☐	☐	☐
589.20	592.20	3.00	GRD	3.00	100	C304637	☐	20-074	Low Grade		☐	☐	☐
592.20	594.20	2.00	GRD	2.00	100	C304639	☐	20-074	Low Grade		☐	☐	☐
594.20	596.55	2.35	GRD	2.34	100	C304640	☐	20-074	Low Grade		☐	☐	☐
596.55	598.05	1.50	GRD	1.36	91	C304221	☐	20-075	Low Grade		☐	☐	☐
598.05	598.55	0.50	GRD	0.49	98	C304222	☐	20-075	Low Grade		☐	☐	☐
598.55	600.05	1.50	GRD	1.49	99	C304223	☐	20-075	Low Grade		☐	☐	☐
598.55	600.05	1.50	GRD	1.49	99	C304224	☐	20-075	Low Grade		☐	☐	☑
600.05	603.05	3.00	GRD	2.98	99	C304225	☐	20-075	Low Grade		☐	☐	☐
603.05	604.90	1.85	GRD	1.63	88	C304226	☐	20-075	Low Grade		☐	☐	☐
604.90	606.40	1.50	GRD	1.43	95	C304227	☐	20-075	Low Grade		☐	☐	☐
606.40	607.90	1.50	GRD	1.50	100	C304228	☐	20-075	Low Grade		☐	☐	☐
607.90	608.30	0.40	GRD	0.40	100	B700789	☐	20-071	High Grade		☐	☐	☐
608.30	608.96	0.66	GRD	0.65	98	B700790	☐	20-071	High Grade		☐	☐	☐
608.96	610.45	1.49	GRD, QFP	1.49	100	C304229	☐	20-075	Low Grade		☐	☐	☐
610.45	613.33	2.88	QFP	2.88	100	C304230	☐	20-075	Low Grade		☐	☐	☐
613.33	614.83	1.50	QFP	1.49	99	C304231	☐	20-075	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
614.83	615.33	0.50	BXA, QFP	0.50	100	B700791	☐	20-071	High Grade		☐	☐	☐
615.33	615.83	0.50	GRD	0.50	100	B700792	☐	20-071	High Grade		☐	☐	☐
615.83	617.33	1.50	GRD	1.50	100	C304232	☐	20-075	Low Grade		☐	☐	☐
617.33	619.20	1.87	GRD	1.82	97	C304233	☐	20-075	Low Grade		☐	☐	☐
619.20	621.00	1.80	GRD	1.77	98	C304234	☐	20-075	Low Grade		☐	☐	☐
621.00	621.50	0.50	GRD	0.50	100	C304235	☐	20-075	Low Grade		☐	☐	☐
621.50	623.00	1.50	GRD	1.50	100	C304236	☐	20-075	Low Grade		☐	☐	☐
623.00	626.00	3.00	GRD	2.65	88	C304237	☐	20-076	Low Grade		☐	☐	☐
626.00	629.00	3.00	GRD	2.95	98	C304238	☐	20-076	Low Grade		☐	☐	☐
629.00	632.00	3.00	GRD	3.00	100	C304239	☐	20-076	Low Grade		☐	☐	☐
632.00	635.00	3.00	GRD	3.00	100	C304240	☐	20-076	Low Grade		☐	☐	☐
635.00	637.00	2.00	GRD	2.00	100	C304242	☐	20-076	Low Grade		☐	☐	☐
637.00	638.70	1.70	GRD	1.65	97	C304243	☐	20-076	Low Grade		☐	☐	☐
638.70	639.20	0.50	GRD	0.50	100	C304244	☐	20-076	Low Grade		☐	☐	☐
638.70	639.20	0.50	GRD	0.50	100	C304245	☐	20-076	Low Grade		☐	☑	☐
639.20	640.70	1.50	GRD	1.50	100	C304246	☐	20-076	Low Grade		☐	☐	☐
640.70	643.41	2.71	GRD	2.71	100	C304247	☐	20-076	Low Grade		☐	☐	☐
643.41	645.00	1.59	GRD, VOL	1.52	96	C304248	☐	20-076	Low Grade		☐	☐	☐
645.00	645.50	0.50	VOL	0.50	100	C304249	☐	20-076	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
645.50	647.00	1.50	VOL	1.50	100	C304250	☐	20-076	Low Grade		☐	☐	☐
647.00	647.50	0.50	VOL	0.50	100	C304641	☐	20-076	Low Grade		☐	☐	☐
647.50	649.84	2.34	VOL	2.26	97	C304643	☐	20-076	Low Grade		☐	☐	☐
649.84	650.34	0.50	QFP	0.50	100	C304644	☐	20-076	Low Grade		☐	☐	☐
650.34	651.07	0.73	VOL, QFP	0.73	100	C304645	☐	20-076	Low Grade		☐	☐	☐
651.07	651.74	0.67	QFP, VOL	0.67	100	C304646	☐	20-076	Low Grade		☐	☐	☐
651.74	652.29	0.55	QFP, GRD	0.51	93	C304647	☐	20-076	Low Grade		☐	☐	☐
652.29	652.96	0.67	QFP, GRD	0.67	100	C304648	☐	20-076	Low Grade		☐	☐	☐
652.96	655.90	2.94	GRD, QFP	2.94	100	C304649	☐	20-076	Low Grade		☐	☐	☐
652.96	655.90	2.94	GRD, QFP	2.94	100	C304650	☐	20-076	Low Grade		☐	☐	☑
655.90	658.90	3.00	GRD	2.92	97	C304651	☐	20-076	Low Grade		☐	☐	☐
658.90	661.15	2.25	GRD	2.24	100	C304652	☐	20-076	Low Grade		☐	☐	☐
661.15	663.40	2.25	GRD	2.25	100	C304653	☐	20-076	Low Grade		☐	☐	☐
663.40	665.90	2.50	QFP	2.45	98	C304654	☐	20-076	Low Grade		☐	☐	☐
665.90	668.36	2.46	QFP	2.46	100	C304655	☐	20-076	Low Grade		☐	☐	☐
668.36	669.45	1.09	GRD, QFP	1.08	99	C304656	☐	20-076	Low Grade		☐	☐	☐
669.45	669.95	0.50	GRD	0.50	100	C304657	☐	20-076	Low Grade		☐	☐	☐
669.95	671.45	1.50	GRD	1.50	100	C304659	☐	20-076	Low Grade		☐	☐	☐
671.45	674.45	3.00	GRD	3.00	100	C304660	☐	20-076	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
674.45	677.45	3.00	GRD	2.97	99	C304661	☐	20-076	Low Grade		☐	☐	☐
677.45	679.85	2.40	GRD	2.24	93	C304662	☐	20-076	Low Grade		☐	☐	☐
679.85	680.35	0.50	GRD	0.49	98	C304663	☐	20-076	Low Grade		☐	☐	☐
680.35	681.85	1.50	GRD	1.15	77	C304664	☐	20-076	Low Grade		☐	☐	☐
681.85	682.35	0.50	GRD	0.50	100	C304665	☐	20-076	Low Grade		☐	☐	☐
682.35	683.63	1.28	GRD	1.15	90	C304666	☐	20-076	Low Grade		☐	☐	☐
683.63	684.13	0.50	GRD	0.45	90	C304667	☐	20-077	Low Grade		☐	☐	☐
684.13	684.63	0.50	GRD	0.49	98	B700794	☐	20-071	High Grade		☐	☐	☐
684.63	685.37	0.74	VEN, GRD	0.64	86	C304668	☐	20-077	Low Grade		☐	☐	☐
685.37	685.87	0.50	GRD	0.48	96	C304669	☐	20-077	Low Grade		☐	☐	☐
685.87	686.37	0.50	GRD	0.48	96	C304670	☐	20-077	Low Grade		☐	☐	☐
686.37	686.87	0.50	GRD	0.50	100	B700795	☐	20-071	High Grade		☐	☐	☐
686.87	687.75	0.88	GRD	0.83	94	C304671	☐	20-077	Low Grade		☐	☐	☐
687.75	688.15	0.40	GRD	0.40	100	B700796	☐	20-071	High Grade		☐	☐	☐
688.15	689.50	1.35	VEN	1.30	96	C304672	☐	20-077	Low Grade		☐	☐	☐
689.50	690.00	0.50	GRD	0.49	98	C304673	☐	20-077	Low Grade		☐	☐	☐
689.50	690.00	0.50	GRD	0.49	98	C304674	☐	20-077	Low Grade		☐	☑	☐
690.00	692.15	2.15	GRD	2.11	98	C304675	☐	20-077	Low Grade		☐	☐	☐
692.15	692.65	0.50	GRD	0.48	96	C304676	☐	20-077	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
692.65	695.65	3.00	GRD	2.98	99	C304677	☐	20-077	Low Grade		☐	☐	☐
695.65	698.65	3.00	GRD	2.61	87	C304678	☐	20-077	Low Grade		☐	☐	☐
698.65	701.65	3.00	GRD	2.65	88	C304680	☐	20-077	Low Grade		☐	☐	☐
701.65	704.65	3.00	GRD	2.74	91	C304681	☐	20-077	Low Grade		☐	☐	☐
704.65	707.65	3.00	GRD	2.83	94	C304682	☐	20-077	Low Grade		☐	☐	☐
707.65	710.65	3.00	GRD	2.79	93	C304683	☐	20-077	Low Grade		☐	☐	☐
710.65	713.65	3.00	GRD	2.45	82	C304684	☐	20-077	Low Grade		☐	☐	☐
713.65	715.55	1.90	GRD	1.76	93	C304685	☐	20-077	Low Grade		☐	☐	☐
715.55	716.05	0.50	GRD	0.46	92	C304686	☐	20-077	Low Grade		☐	☐	☐
716.05	716.55	0.50	GRD	0.48	96	C304687	☐	20-077	Low Grade		☐	☐	☐
716.55	717.05	0.50	GRD	0.48	96	B700517	☐	20-071	High Grade		☐	☐	☐
717.05	720.00	2.95	GRD	2.91	99	C304689	☐	20-077	Low Grade		☐	☐	☐
720.00	723.00	3.00	GRD	2.97	99	C304690	☐	20-077	Low Grade		☐	☐	☐
723.00	726.00	3.00	GRD	2.98	99	C304691	☐	20-077	Low Grade		☐	☐	☐
726.00	728.50	2.50	GRD	2.48	99	C304692	☐	20-077	Low Grade		☐	☐	☐
728.50	729.00	0.50	GRD	0.49	98	C304693	☐	20-077	Low Grade		☐	☐	☐
729.00	729.70	0.70	GRD	0.69	99	C304694	☐	20-077	Low Grade		☐	☐	☐
729.70	732.70	3.00	SIL	2.97	99	C304695	☐	20-077	Low Grade		☐	☐	☐
732.70	733.56	0.86	SIL	0.86	100	C304696	☐	20-077	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
733.56	734.06	0.50	SIL	0.49	98	B700518	☐	20-071	High Grade		☐	☐	☐
734.06	735.00	0.94	GRD	0.92	98	C304697	☐	20-077	Low Grade		☐	☐	☐
734.06	735.00	0.94	GRD	0.49	52	C304698	☐	20-077	Low Grade		☐	☐	☑
735.00	737.50	2.50	GRD	2.19	88	C304699	☐	20-077	Low Grade		☐	☐	☐
737.50	738.00	0.50	GRD	0.47	94	C304700	☐	20-077	Low Grade		☐	☐	☐
738.00	740.00	2.00	GRD	1.98	99	C304702	☐	20-077	Low Grade		☐	☐	☐
740.00	740.90	0.90	GRD	0.90	100	C304703	☐	20-077	Low Grade		☐	☐	☐
740.90	741.60	0.70	GRD	0.69	99	C304704	☐	20-077	Low Grade		☐	☐	☐
741.60	743.75	2.15	GRD	2.13	99	C304705	☐	20-077	Low Grade		☐	☐	☐
743.75	744.25	0.50	GRD	0.50	100	C304706	☐	20-077	Low Grade		☐	☐	☐
744.25	746.00	1.75	GRD	1.75	100	C304707	☐	20-078	LOW GRADE		☐	☐	☐
746.00	746.90	0.90	GRD	0.89	99	C304708	☐	20-078	LOW GRADE		☐	☐	☐
746.90	747.40	0.50	GRD	0.50	100	B700519	☐	20-071	High Grade		☐	☐	☐
747.40	749.05	1.65	GRD	1.64	99	C304709	☐	20-078	LOW GRADE		☐	☐	☐
749.05	749.55	0.50	GRD	0.50	100	C304710	☐	20-078	LOW GRADE		☐	☐	☐
749.55	752.55	3.00	GRD	2.93	98	C304711	☐	20-078	LOW GRADE		☐	☐	☐
752.55	753.05	0.50	GRD	0.50	100	C304713	☐	20-078	LOW GRADE		☐	☐	☐
753.05	755.03	1.98	GRD	1.93	97	C304714	☐	20-078	LOW GRADE		☐	☐	☐
755.03	755.59	0.56	SIL, GRD	0.56	100	C304715	☐	20-078	LOW GRADE		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
755.59	757.75	2.16	SIL	2.13	99	C304716	☐	20-078	LOW GRADE		☐	☐	☐
757.75	758.25	0.50	GRD	0.49	98	C304718	☐	20-078	LOW GRADE		☐	☐	☐
758.25	759.60	1.35	GRD	1.33	99	C304719	☐	20-078	LOW GRADE		☐	☐	☐
759.60	761.13	1.53	GRD	1.50	98	C304720	☐	20-078	LOW GRADE		☐	☐	☐
761.13	761.63	0.50	GRD	0.50	100	B700521	☐	20-071	High Grade		☐	☐	☐
761.13	761.63	0.50	GRD	0.50	100	B700522	☐	20-071	High Grade		☐	☑	☐
761.63	762.13	0.50	VEN	0.50	100	B700523	☐	20-071	High Grade		☐	☐	☐
762.13	762.73	0.60	GRD	0.59	98	B700524	☐	20-071	High Grade		☐	☐	☐
762.13	762.73	0.60	GRD	0.59	98	B700525	☐	20-071	High Grade		☐	☐	☑
762.73	765.73	3.00	GRD	2.99	100	C304721	☐	20-078	LOW GRADE		☐	☐	☐
765.73	768.61	2.88	GRD	2.88	100	C304722	☐	20-078	LOW GRADE		☐	☐	☐
768.61	771.60	2.99	GRD	2.99	100	C304723	☐	20-078	LOW GRADE		☐	☐	☐
768.61	771.60	2.99	GRD	2.99	100	C304724	☐	20-078	LOW GRADE		☐	☑	☐
771.60	774.60	3.00	GRD	2.99	100	C304725	☐	20-078	LOW GRADE		☐	☐	☐
774.60	775.56	0.96	GRD	0.95	99	C304726	☐	20-078	LOW GRADE		☐	☐	☐
775.56	776.06	0.50	BXA	0.45	90	B700526	☐	20-071	High Grade		☐	☐	☐
776.06	777.00	0.94	GRD	0.94	100	C304727	☐	20-078	LOW GRADE		☐	☐	☐
777.00	779.35	2.35	GRD	2.34	100	C304728	☐	20-078	LOW GRADE		☐	☐	☐
779.35	779.85	0.50	GRD	0.50	100	B700527	☐	20-071	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
779.85	782.85	3.00	GRD	2.94	98	C304729	☐	20-078	LOW GRADE		☐	☐	☐
782.85	783.40	0.55	GRD	0.54	98	C304730	☐	20-078	LOW GRADE		☐	☐	☐
783.40	783.90	0.50	GRD	0.50	100	B700528	☐	20-071	High Grade		☐	☐	☐
783.90	784.86	0.96	GRD	0.95	99	C304251	☐	20-079	LOW		☐	☐	☐
784.86	785.40	0.54	GRD	0.54	100	C304731	☐	20-078	LOW GRADE		☐	☐	☐
785.40	787.31	1.91	GRD	1.90	99	C304732	☐	20-078	LOW GRADE		☐	☐	☐
787.31	787.91	0.60	GRD	0.56	93	B700529	☐	20-071	High Grade		☐	☐	☐
787.91	788.61	0.70	GRD	0.70	100	B700530	☐	20-071	High Grade		☐	☐	☐
788.61	789.50	0.89	QFP	0.89	100	C304733	☐	20-078	LOW GRADE		☐	☐	☐
789.50	790.00	0.50	QFP	0.50	100	C304734	☐	20-078	LOW GRADE		☐	☐	☐
789.50	790.00	0.50	QFP	0.50	100	C304735	☐	20-078	LOW GRADE		☐	☐	☑
790.00	792.00	2.00	QFP	1.98	99	C304736	☐	20-078	LOW GRADE		☐	☐	☐
792.00	792.50	0.50	QFP	0.50	100	B700531	☐	20-071	High Grade		☐	☐	☐
792.50	793.00	0.50	QFP	0.50	100	C304737	☐	20-078	LOW GRADE		☐	☐	☐
793.00	796.00	3.00	QFP	2.99	100	C304738	☐	20-078	LOW GRADE		☐	☐	☐
796.00	799.00	3.00	QFP	3.00	100	C304739	☐	20-078	LOW GRADE		☐	☐	☐
799.00	802.00	3.00	QFP	2.96	99	C304740	☐	20-078	LOW GRADE		☐	☐	☐
802.00	805.00	3.00	QFP	2.85	95	C304741	☐	20-078	LOW GRADE		☐	☐	☐
805.00	808.00	3.00	QFP	2.84	95	C304742	☐	20-078	LOW GRADE		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
808.00	811.00	3.00	QFP	2.97	99	C304743	☐	20-078	LOW GRADE		☐	☐	☐
811.00	813.50	2.50	QFP	2.50	100	C304744	☐	20-078	LOW GRADE		☐	☐	☐
813.50	814.00	0.50	QFP	0.50	100	B700532	☐	20-071	High Grade		☐	☐	☐
814.00	816.63	2.63	FEL	2.58	98	C304745	☐	20-078	LOW GRADE		☐	☐	☐
816.63	819.63	3.00	FEL	2.98	99	C304747	☐	20-079	LOW		☐	☐	☐
819.63	822.63	3.00	FEL	2.89	96	C304748	☐	20-079	LOW		☐	☐	☐
822.63	825.63	3.00	FEL	2.95	98	C304749	☐	20-079	LOW		☐	☐	☐
825.63	827.75	2.12	FEL	2.12	100	B700797	☐	20-079	LOW		☐	☐	☐
827.75	828.25	0.50	FEL	0.49	98	B700798	☐	20-079	LOW		☐	☐	☐
828.25	830.15	1.90	FEL	1.90	100	B700799	☐	20-079	LOW		☐	☐	☐
830.15	830.75	0.60	FEL	0.60	100	C304252	☐	20-079	LOW		☐	☐	☐
830.75	831.50	0.75	FEL	0.74	99	C304253	☐	20-079	LOW		☐	☐	☐
831.50	834.50	3.00	FEL	2.94	98	C304255	☐	20-079	LOW		☐	☐	☐
834.50	837.50	3.00	FEL	3.00	100	C304256	☐	20-079	LOW		☐	☐	☐
834.50	837.50	3.00	FEL	3.00	100	C304257	☐	20-079	LOW		☐	☑	☐
837.50	838.00	0.50	FEL	0.49	98	B700533	☐	20-071	High Grade		☐	☐	☐
838.00	839.10	1.10	FEL	1.10	100	C304258	☐	20-079	LOW		☐	☐	☐
839.10	839.60	0.50	FEL	0.50	100	C304259	☐	20-079	LOW		☐	☐	☐
839.60	842.60	3.00	FEL	2.99	100	C304260	☐	20-079	LOW		☐	☐	☐
842.60	845.60	3.00	FEL	3.00	100	C304261	☐	20-079	LOW		☐	☐	☐
845.60	848.60	3.00	FEL	3.00	100	C304262	☐	20-079	LOW		☐	☐	☐
848.60	851.20	2.60	FEL	0.41	16	C304263	☐	20-079	LOW		☐	☐	☐
851.20	851.70	0.50	FEL	0.41	82	C304264	☐	20-079	LOW		☐	☐	☐
851.70	854.70	3.00	FEL	2.93	98	C304265	☐	20-079	LOW		☐	☐	☐
854.70	855.90	1.20	FEL	1.19	99	C304266	☐	20-079	LOW		☐	☐	☐
855.90	856.80	0.90	FEL	0.90	100	C304267	☐	20-079	LOW		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
855.90	856.80	0.90	FEL	0.90	100	C304268	☐	20-079	LOW		☐	☐	☑
856.80	857.69	0.89	FEL	0.89	100	C304269	☐	20-079	LOW		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-071	B700520	0.00	0.00	2.82	1080	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-036	B700775	0.00	0.00	2.84	580	☐	☐	☐	☑ Klaza2020-B	klaza b
20-071	B700787	0.00	0.00	0.00	90	☐	☐	☑	☐	blank
20-071	B700793	0.00	0.00	12.00	180	☐	☐	☐	☑ Klaza2020-C	klaza c
20-079	B700800	0.00	0.00	2.86	1050	☐	☐	☐	☑ Klaza2020-B	KLAZA B
20-076	C304241	0.00	0.00	0.64	360	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-079	C304254	0.00	0.00	0.00	30	☐	☐	☑	☐	BLANK
20-065	C304506	0.00	0.00	0.61	350	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-068	C304525	0.00	0.00	3.03	1220	☐	☐	☐	☑ Klaza2020-B	klaza b
20-068	C304532	0.00	0.00	0.60	320	☐	☐	☐	☑ Klaza2020-A	klaza a
20-068	C304554	0.00	0.00	0.00	40	☐	☐	☑	☐	blank
20-069	C304574	0.00	0.00	0.71	270	☐	☐	☐	☑ Klaza2020-A	klaza a
20-069	C304578	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-069	C304596	0.00	0.00	3.10	210	☐	☐	☐	☑ Klaza2020-B	Klaza B

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-074	C304607	0.00	0.00	0.60	560	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-074	C304627	0.00	0.00	2.90	1670	☐	☐	☐	☑ Klaza2020-B	klaza b
20-074	C304638	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-076	C304642	0.00	0.00	2.92	220	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-076	C304658	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-077	C304679	0.00	0.00	2.89	60	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-077	C304688	0.00	0.00	0.59	240	☐	☐	☐	☑ Klaza2020-A	KLAZA-A
20-077	C304701	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-078	C304712	0.00	0.00	0.63	210	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-078	C304717	0.00	0.00	2.93	250	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-078	C304746	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank
20-079	C304750	0.00	0.00	0.67	260	☐	☐	☐	☑ Klaza2020-A	KLAZA A
20-057	W598580	0.00	0.00	0.65	240	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-057	W598588	0.00	0.00	2.81	90	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-057	W598604	0.00	0.00	0.00	20	☐	☐	☑	☐	Blank

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-060	W598617	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-060	W598621	0.00	0.00	2.95	70	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-060	W598642	0.00	0.00	0.62	150	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-062	W598662	0.00	0.00	2.75	290	☐	☐	☐	☑ Klaza2020-B	klaza b
20-062	W598676	0.00	0.00	0.66	320	☐	☐	☐	☑ Klaza2020-A	klaza a
20-062	W598689	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-063	W598697	0.00	0.00	0.64	280	☐	☐	☐	☑ Klaza2020-A	klaza a
20-063	W598712	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-063	W598720	0.00	0.00	2.94	530	☐	☐	☐	☑ Klaza2020-B	klaza b
20-065	W598738	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-065	W598744	0.00	0.00	3.01	110	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-055	W598561	7.30	8.80	0.00	2420	☐	☐	☐	☐	
20-055	W598562	8.80	9.30	0.00	1830	☐	☐	☐	☐	
20-055	W598563	9.30	10.80	0.00	2370	☐	☐	☐	☐	
20-055	W598564	30.40	31.90	0.00	2150	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-055	W598565	31.90	32.40	0.31	1120	☐	☐	☐	☐	
20-055	W598566	32.40	33.00	0.01	2100	☐	☐	☐	☐	
20-055	W598567	33.00	34.50	0.00	2050	☐	☐	☐	☐	
20-055	W598568	37.35	38.85	0.01	2050	☐	☐	☐	☐	
20-055	W598569	38.85	39.35	0.05	1350	☐	☐	☐	☐	
20-055	W598570	39.35	39.85	0.03	1590	☐	☐	☐	☐	
20-057	W598571	39.85	40.40	0.00	2320	☐	☐	☐	☐	
20-057	W598572	40.40	40.90	0.03	1200	☐	☐	☐	☐	
20-057	W598573	40.40	40.90	0.03	1300	☑	☐	☐	☐	1/4 duplicate
20-057	W598574	40.90	41.75	0.00	2340	☐	☐	☐	☐	
20-057	W598575	41.75	42.25	0.01	2040	☐	☐	☐	☐	
20-057	W598576	42.25	43.75	0.01	2270	☐	☐	☐	☐	
20-057	W598577	75.35	76.85	0.01	2400	☐	☐	☐	☐	
20-057	W598578	76.85	77.35	0.20	1080	☐	☐	☐	☐	
20-057	W598579	77.35	78.85	0.01	1780	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-057	W598581	86.25	87.75	0.00	1260	☐	☐	☐	☐	
20-057	W598582	87.75	89.25	0.03	420	☐	☐	☐	☐	
20-057	W598583	89.25	90.75	0.01	630	☐	☐	☐	☐	
20-057	W598584	90.75	91.75	0.00	1530	☐	☐	☐	☐	
20-057	W598585	116.40	117.90	0.00	2300	☐	☐	☐	☐	
20-057	W598586	117.90	118.40	0.00	1870	☐	☐	☐	☐	
20-057	W598587	118.40	119.90	0.00	2170	☐	☐	☐	☐	
20-057	W598589	129.00	130.40	0.00	2210	☐	☐	☐	☐	
20-057	W598590	130.40	130.90	0.07	1570	☐	☐	☐	☐	
20-057	W598591	130.90	132.10	0.01	2220	☐	☐	☐	☐	
20-057	W598592	132.10	132.60	0.23	590	☐	☐	☐	☐	
20-057	W598593	132.60	134.10	0.01	2280	☐	☐	☐	☐	
20-057	W598594	134.10	135.15	0.02	2270	☐	☐	☐	☐	
20-057	W598595	134.10	135.15	0.00	2260	☐	☑	☐	☐	Coarse reject duplicate
20-057	W598596	135.15	135.65	0.04	2180	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-057	W598597	135.65	137.15	0.03	1910	☐	☐	☐	☐	
20-057	W598598	137.15	138.55	0.02	1840	☐	☐	☐	☐	
20-057	W598599	138.55	140.05	0.01	2280	☐	☐	☐	☐	
20-057	W598600	140.05	140.55	0.06	800	☐	☐	☐	☐	
20-057	W598601	140.55	142.05	0.06	700	☐	☐	☐	☐	
20-057	W598602	147.10	148.60	0.07	100	☐	☐	☐	☐	
20-057	W598603	148.60	149.10	0.71	400	☐	☐	☐	☐	
20-057	W598605	149.10	150.10	1.12	210	☐	☐	☐	☐	
20-057	W598606	150.10	151.60	0.00	2050	☐	☐	☐	☐	
20-057	W598607	168.10	169.60	0.01	1940	☐	☐	☐	☐	
20-057	W598608	169.60	170.10	0.01	1920	☐	☐	☐	☐	
20-057	W598609	170.10	170.70	0.00	2860	☐	☐	☐	☐	
20-057	W598610	170.70	172.10	0.01	2210	☐	☐	☐	☐	
20-060	W598611	172.10	173.00	0.01	1650	☐	☐	☐	☐	
20-060	W598612	173.00	174.00	0.23	1360	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-060	W598613	174.00	175.50	0.00	2490	☐	☐	☐	☐	
20-060	W598614	177.60	179.10	0.00	2750	☐	☐	☐	☐	
20-060	W598615	179.10	179.60	0.00	3050	☐	☐	☐	☐	
20-060	W598616	179.60	180.90	0.00	1760	☐	☐	☐	☐	
20-036	B700756	180.90	181.40	1.00	270	☐	☐	☐	☐	
20-060	W598618	181.40	182.80	0.01	2060	☐	☐	☐	☐	
20-060	W598619	182.80	183.30	0.01	1630	☐	☐	☐	☐	
20-060	W598620	183.30	183.80	0.01	2450	☐	☐	☐	☐	
20-060	W598622	183.80	185.30	0.03	2580	☐	☐	☐	☐	
20-060	W598623	185.30	186.75	0.01	2670	☐	☐	☐	☐	
20-060	W598624	186.75	187.25	0.35	150	☐	☐	☐	☐	
20-060	W598625	187.25	188.75	0.01	1650	☐	☐	☐	☐	
20-060	W598626	192.05	193.55	0.00	2310	☐	☐	☐	☐	
20-060	W598627	193.55	194.05	0.01	2380	☐	☐	☐	☐	
20-060	W598628	193.55	194.05	0.00	2140	☑	☐	☐	☐	1/4 Duplicate

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-060	W598629	194.05	195.55	0.00	2680	☐	☐	☐	☐	
20-060	W598630	195.55	196.60	0.01	2740	☐	☐	☐	☐	
20-060	W598631	196.60	197.75	0.01	1860	☐	☐	☐	☐	
20-060	W598632	197.75	199.25	0.01	4010	☐	☐	☐	☐	
20-060	W598633	199.25	199.75	0.12	690	☐	☐	☐	☐	
20-060	W598634	199.25	199.75	0.10	1350	☐	☑	☐	☐	Coarse Reject Duplicate
20-060	W598635	199.75	201.25	0.00	2190	☐	☐	☐	☐	
20-060	W598636	205.75	207.25	0.01	3260	☐	☐	☐	☐	
20-060	W598637	207.25	208.00	0.02	1670	☐	☐	☐	☐	
20-036	B700757	208.00	208.50	0.33	390	☐	☐	☐	☐	
20-060	W598638	208.50	209.00	0.03	1270	☐	☐	☐	☐	
20-060	W598639	209.00	209.50	0.18	1130	☐	☐	☐	☐	
20-060	W598640	209.50	210.70	0.01	1920	☐	☐	☐	☐	
20-060	W598641	210.70	211.20	0.02	2280	☐	☐	☐	☐	
20-060	W598643	211.20	212.70	0.00	2120	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-060	W598644	217.60	219.10	0.00	2160	☐	☐	☐	☐	
20-060	W598645	219.10	219.60	0.42	160	☐	☐	☐	☐	
20-060	W598646	219.60	220.40	0.00	2110	☐	☐	☐	☐	
20-060	W598647	220.40	220.90	0.04	1860	☐	☐	☐	☐	
20-060	W598648	220.90	221.40	0.11	1830	☐	☐	☐	☐	
20-060	W598649	221.40	222.90	0.00	2270	☐	☐	☐	☐	
20-060	W598650	222.90	224.05	0.00	2250	☐	☐	☐	☐	
20-062	W598651	224.05	225.55	0.00	1830	☐	☐	☐	☐	
20-062	W598652	225.55	226.05	0.08	2360	☐	☐	☐	☐	
20-062	W598653	226.05	227.55	0.00	2120	☐	☐	☐	☐	
20-062	W598654	227.55	228.40	0.00	2130	☐	☐	☐	☐	
20-062	W598655	228.40	229.40	0.00	1940	☐	☐	☐	☐	
20-062	W598656	229.40	230.90	0.00	2230	☐	☐	☐	☐	
20-062	W598657	230.90	231.40	0.02	1880	☐	☐	☐	☐	
20-062	W598658	230.90	231.40	0.03	1720	☑	☐	☐	☐	quarter dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-062	W598659	231.40	232.90	0.01	2420	☐	☐	☐	☐	
20-062	W598660	232.90	234.30	0.00	2290	☐	☐	☐	☐	
20-062	W598661	234.30	234.80	0.50	1400	☐	☐	☐	☐	
20-062	W598663	234.80	235.40	0.44	1800	☐	☐	☐	☐	
20-062	W598664	235.40	235.90	0.79	1380	☐	☐	☐	☐	
20-062	W598665	235.90	237.00	0.25	970	☐	☐	☐	☐	
20-062	W598666	237.00	237.50	1.32	2310	☐	☐	☐	☐	
20-036	B700758	237.50	238.20	4.08	60	☐	☐	☐	☐	
20-062	W598667	238.20	238.70	0.07	900	☐	☐	☐	☐	
20-062	W598668	238.70	239.20	0.01	1720	☐	☐	☐	☐	
20-062	W598669	238.70	239.20	0.01	1640	☐	☑	☐	☐	coarse rej
20-062	W598670	239.20	240.45	0.03	1690	☐	☐	☐	☐	
20-062	W598671	240.45	240.95	0.22	220	☐	☐	☐	☐	
20-062	W598672	240.95	242.45	0.00	2440	☐	☐	☐	☐	
20-062	W598673	242.45	243.15	0.00	2470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-062	W598674	243.15	244.65	0.01	2470	☐	☐	☐	☐	
20-062	W598675	244.65	245.15	0.03	1290	☐	☐	☐	☐	
20-062	W598677	245.15	246.65	0.01	2590	☐	☐	☐	☐	
20-062	W598678	255.95	257.45	0.00	2480	☐	☐	☐	☐	
20-062	W598679	257.45	257.95	0.01	2300	☐	☐	☐	☐	
20-062	W598680	257.95	259.45	0.01	2470	☐	☐	☐	☐	
20-062	W598681	259.45	260.35	0.00	2080	☐	☐	☐	☐	
20-062	W598682	260.35	260.85	0.09	2190	☐	☐	☐	☐	
20-062	W598683	260.85	262.35	0.00	2170	☐	☐	☐	☐	
20-062	W598684	268.80	270.30	0.00	2290	☐	☐	☐	☐	
20-062	W598685	270.30	270.80	0.00	10001	☐	☐	☐	☐	
20-062	W598686	270.80	272.30	0.00	2450	☐	☐	☐	☐	
20-062	W598687	274.40	275.40	0.00	1770	☐	☐	☐	☐	
20-062	W598688	275.40	276.90	0.33	2220	☐	☐	☐	☐	
20-036	B700759	276.90	277.45	4.68	60	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700760	276.90	277.45	5.15	70	☐	☑	☐	☐	coarse rej
20-062	W598690	277.45	278.95	0.15	2100	☐	☐	☐	☐	
20-063	W598691	293.50	295.00	0.00	1750	☐	☐	☐	☐	
20-036	B700761	295.00	295.70	0.16	510	☐	☐	☐	☐	
20-063	W598692	295.70	297.20	0.01	2500	☐	☐	☐	☐	
20-063	W598693	297.20	298.00	0.00	2010	☐	☐	☐	☐	
20-063	W598694	298.00	299.00	0.00	2420	☐	☐	☐	☐	
20-063	W598695	299.00	299.50	0.00	2900	☐	☐	☐	☐	
20-063	W598696	299.50	301.00	0.00	2560	☐	☐	☐	☐	
20-063	W598698	305.05	306.55	0.03	1770	☐	☐	☐	☐	
20-063	W598699	306.55	307.05	0.42	1270	☐	☐	☐	☐	
20-063	W598700	307.05	307.60	0.05	1930	☐	☐	☐	☐	
20-063	W598701	307.60	308.10	0.09	2260	☐	☐	☐	☐	
20-036	B700762	308.10	308.75	0.21	690	☐	☐	☐	☐	
20-036	B700763	308.75	309.25	1.53	460	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-063	W598702	309.25	310.75	0.00	1340	☐	☐	☐	☐	
20-063	W598703	309.25	310.75	0.01	1400	☐	☑	☐	☐	coarse rej
20-063	W598704	319.10	320.55	0.00	830	☐	☐	☐	☐	
20-063	W598705	320.55	321.05	0.08	1430	☐	☐	☐	☐	
20-063	W598706	321.05	322.55	0.01	800	☐	☐	☐	☐	
20-063	W598707	322.55	323.30	0.00	680	☐	☐	☐	☐	
20-063	W598708	323.30	324.79	0.00	1560	☐	☐	☐	☐	
20-063	W598709	324.79	325.40	0.01	1410	☐	☐	☐	☐	
20-063	W598710	325.40	325.90	0.01	900	☐	☐	☐	☐	
20-063	W598711	325.90	326.90	0.20	960	☐	☐	☐	☐	
20-063	W598713	326.90	327.80	0.26	530	☐	☐	☐	☐	
20-063	W598714	327.80	328.35	0.00	370	☐	☐	☐	☐	
20-063	W598715	328.35	329.35	0.01	250	☐	☐	☐	☐	
20-063	W598716	329.35	330.00	0.01	380	☐	☐	☐	☐	
20-063	W598717	330.00	331.10	0.00	690	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-063	W598718	331.10	331.60	0.21	2120	☐	☐	☐	☐	
20-063	W598719	331.60	333.10	0.00	1580	☐	☐	☐	☐	
20-063	W598721	340.60	342.10	0.00	2250	☐	☐	☐	☐	
20-063	W598722	342.10	342.60	0.03	1720	☐	☐	☐	☐	
20-063	W598723	342.10	342.60	0.04	1720	☑	☐	☐	☐	quartere dup
20-063	W598724	342.60	344.10	0.00	2200	☐	☐	☐	☐	
20-063	W598725	344.10	344.90	0.00	2220	☐	☐	☐	☐	
20-063	W598726	344.90	345.65	0.00	1920	☐	☐	☐	☐	
20-063	W598727	345.65	347.15	0.01	1040	☐	☐	☐	☐	
20-036	B700764	347.15	347.65	0.77	450	☐	☐	☐	☐	
20-036	B700765	347.15	347.65	0.12	380	☑	☐	☐	☐	quarter dup
20-063	W598728	347.65	349.15	0.04	1800	☐	☐	☐	☐	
20-063	W598729	349.39	350.05	0.00	2360	☐	☐	☐	☐	
20-063	W598730	350.05	350.55	0.15	1990	☐	☐	☐	☐	
20-065	W598731	350.55	351.85	0.00	2310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700766	351.85	352.35	0.27	1660	☐	☐	☐	☐	
20-065	W598732	352.35	353.35	0.01	1880	☐	☐	☐	☐	
20-065	W598733	353.35	354.30	0.00	2100	☐	☐	☐	☐	
20-065	W598734	354.30	355.20	0.01	2000	☐	☐	☐	☐	
20-065	W598735	355.20	356.70	0.00	2210	☐	☐	☐	☐	
20-065	W598736	356.70	357.20	0.01	1920	☐	☐	☐	☐	
20-065	W598737	357.20	357.85	0.02	960	☐	☐	☐	☐	
20-036	B700767	357.85	358.35	0.06	810	☐	☐	☐	☐	
20-065	W598739	358.35	359.85	0.01	1900	☐	☐	☐	☐	
20-065	W598740	359.85	360.70	0.00	2270	☐	☐	☐	☐	
20-065	W598741	360.70	361.65	0.00	2300	☐	☐	☐	☐	
20-065	W598742	361.65	363.15	0.00	2180	☐	☐	☐	☐	
20-065	W598743	363.15	363.65	0.00	3000	☐	☐	☐	☐	
20-065	W598745	363.65	365.15	0.00	2070	☐	☐	☐	☐	
20-065	W598746	382.35	383.85	0.00	2140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-065	W598747	383.85	384.35	0.01	1430	☐	☐	☐	☐	
20-065	W598748	384.35	385.85	0.01	2070	☐	☐	☐	☐	
20-065	W598749	389.00	390.50	0.01	2090	☐	☐	☐	☐	
20-065	W598750	389.00	390.50	0.01	2050	☐	☑	☐	☐	Coarse Reject duplicate.
20-065	C304501	390.50	391.17	0.01	3090	☐	☐	☐	☐	
20-065	C304502	391.17	392.67	0.00	2750	☐	☐	☐	☐	
20-065	C304503	392.67	393.75	0.01	1760	☐	☐	☐	☐	
20-065	C304504	393.75	394.25	0.01	1670	☐	☐	☐	☐	
20-065	C304505	394.25	395.75	0.01	2030	☐	☐	☐	☐	
20-065	C304507	399.45	400.95	0.01	2400	☐	☐	☐	☐	
20-065	C304508	400.95	401.45	0.01	2300	☐	☐	☐	☐	
20-065	C304509	401.45	402.15	0.00	1820	☐	☐	☐	☐	
20-065	C304510	402.15	402.98	0.01	380	☐	☐	☐	☐	
20-065	C304511	402.98	403.90	0.00	3960	☐	☐	☐	☐	
20-065	C304512	403.90	404.75	0.01	1970	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-065	C304513	404.75	406.25	0.01	2650	☐	☐	☐	☐	
20-065	C304514	406.25	407.75	0.01	1790	☐	☐	☐	☐	
20-065	C304515	407.75	408.25	0.04	1380	☐	☐	☐	☐	
20-065	C304516	408.25	409.75	0.01	1460	☐	☐	☐	☐	
20-065	C304517	409.75	411.25	0.89	850	☐	☐	☐	☐	
20-065	C304518	411.25	412.60	0.11	350	☐	☐	☐	☐	
20-065	C304519	412.60	413.10	0.35	370	☐	☐	☐	☐	
20-065	C304520	412.60	413.10	0.84	370	☑	☐	☐	☐	quarter dup
20-069	C304581	413.10	413.60	0.34	330	☐	☐	☐	☐	
20-069	C304582	413.60	414.95	1.66	150	☐	☐	☐	☐	
20-036	B700773	414.95	416.00	0.40	260	☐	☐	☐	☐	
20-036	B700774	416.00	417.00	0.08	590	☐	☐	☐	☐	
20-068	C304521	417.00	418.50	0.01	2150	☐	☐	☐	☐	
20-068	C304522	418.50	420.00	0.00	2000	☐	☐	☐	☐	
20-068	C304523	420.00	421.50	0.00	2080	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-068	C304524	421.50	423.00	0.00	1710	☐	☐	☐	☐	
20-068	C304526	423.00	424.50	0.00	1460	☐	☐	☐	☐	
20-068	C304527	424.50	426.00	0.00	1490	☐	☐	☐	☐	
20-068	C304528	426.00	427.50	0.00	2260	☐	☐	☐	☐	
20-068	C304529	427.50	428.50	0.00	2310	☐	☐	☐	☐	
20-068	C304530	428.50	430.00	0.00	2040	☐	☐	☐	☐	
20-068	C304531	430.00	431.50	0.00	2510	☐	☐	☐	☐	
20-068	C304533	435.85	437.35	0.03	2140	☐	☐	☐	☐	
20-068	C304534	437.35	437.85	0.16	1690	☐	☐	☐	☐	
20-068	C304535	437.85	439.35	0.00	930	☐	☐	☐	☐	
20-068	C304536	439.35	440.45	0.03	880	☐	☐	☐	☐	
20-068	C304537	440.45	441.95	0.00	1440	☐	☐	☐	☐	
20-068	C304538	441.95	443.10	0.01	1030	☐	☐	☐	☐	
20-068	C304539	441.95	443.10	0.01	990	☐	☑	☐	☐	coarse rej
20-068	C304540	443.10	443.65	0.01	570	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-068	C304541	443.65	445.15	0.01	1810	☐	☐	☐	☐	
20-068	C304542	449.75	451.25	0.00	2370	☐	☐	☐	☐	
20-068	C304543	451.25	451.75	0.01	1850	☐	☐	☐	☐	
20-068	C304544	451.25	451.75	0.01	1950	☑	☐	☐	☐	quarter dup
20-068	C304545	451.75	453.25	0.00	2470	☐	☐	☐	☐	
20-068	C304546	453.25	454.25	0.00	2400	☐	☐	☐	☐	
20-068	C304547	454.25	455.25	0.00	2470	☐	☐	☐	☐	
20-068	C304548	455.25	456.75	0.00	2280	☐	☐	☐	☐	
20-068	C304549	456.75	457.25	0.01	1160	☐	☐	☐	☐	
20-068	C304550	457.25	457.75	0.01	2060	☐	☐	☐	☐	
20-068	C304551	457.75	459.25	0.00	2380	☐	☐	☐	☐	
20-068	C304552	478.20	479.70	0.01	2820	☐	☐	☐	☐	
20-068	C304553	479.70	480.20	0.02	1450	☐	☐	☐	☐	
20-068	C304555	480.20	481.70	0.00	2320	☐	☐	☐	☐	
20-068	C304556	486.15	487.65	0.00	2880	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700776	487.65	488.15	1.75	280	☐	☐	☐	☐	hg
20-068	C304557	488.15	489.65	0.01	2290	☐	☐	☐	☐	
20-068	C304558	489.65	490.35	0.00	2320	☐	☐	☐	☐	
20-068	C304559	490.35	490.90	0.06	1470	☐	☐	☐	☐	
20-068	C304560	490.90	491.65	0.02	2640	☐	☐	☐	☐	
20-069	C304561	491.65	492.15	0.03	1930	☐	☐	☐	☐	
20-069	C304562	492.15	493.50	0.00	2410	☐	☐	☐	☐	
20-069	C304563	493.50	494.00	0.40	190	☐	☐	☐	☐	
20-069	C304564	493.50	494.00	0.17	460	☑	☐	☐	☐	quarter dup
20-069	C304565	494.00	495.50	0.01	2200	☐	☐	☐	☐	
20-069	C304566	495.50	496.80	0.01	2630	☐	☐	☐	☐	
20-069	C304567	496.80	497.80	0.00	2640	☐	☐	☐	☐	
20-069	C304568	497.80	498.30	0.01	1930	☐	☐	☐	☐	
20-069	C304569	498.30	499.00	0.05	1730	☐	☐	☐	☐	
20-069	C304570	499.00	499.80	0.01	1950	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-036	B700777	499.80	500.30	0.13	560	☐	☐	☐	☐	hg
20-069	C304571	500.30	501.80	0.00	2300	☐	☐	☐	☐	
20-069	C304572	501.80	503.00	0.00	2170	☐	☐	☐	☐	
20-069	C304573	503.00	503.50	0.01	2640	☐	☐	☐	☐	
20-069	C304575	503.50	505.00	0.00	2760	☐	☐	☐	☐	
20-069	C304576	505.00	508.00	0.03	2350	☐	☐	☐	☐	
20-069	C304577	508.00	510.20	0.01	2760	☐	☐	☐	☐	
20-069	C304579	510.20	510.70	0.55	930	☐	☐	☐	☐	
20-069	C304580	510.70	511.30	0.15	1110	☐	☐	☐	☐	
20-069	C304583	511.30	514.30	0.03	2450	☐	☐	☐	☐	
20-069	C304584	514.30	515.60	0.00	2490	☐	☐	☐	☐	
20-069	C304585	515.60	516.10	5.09	710	☐	☐	☐	☐	
20-069	C304586	516.10	516.80	0.02	2310	☐	☐	☐	☐	
20-069	C304587	516.80	517.30	0.18	1280	☐	☐	☐	☐	
20-069	C304588	516.80	517.30	0.15	1440	☐	☑	☐	☐	Coarse reject duplicate

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-069	C304589	517.30	518.80	0.00	2920	☐	☐	☐	☐	
20-069	C304590	518.80	521.00	0.00	3230	☐	☐	☐	☐	
20-069	C304591	521.00	522.85	0.02	1860	☐	☐	☐	☐	
20-069	C304592	522.85	523.35	0.07	1170	☐	☐	☐	☐	
20-069	C304593	523.35	524.26	0.03	870	☐	☐	☐	☐	
20-069	C304594	524.26	524.76	0.12	1330	☐	☐	☐	☐	
20-069	C304595	524.76	527.27	0.03	1470	☐	☐	☐	☐	
20-069	C304597	527.27	528.10	0.01	1680	☐	☐	☐	☐	
20-071	B700784	528.10	528.60	5.03	100	☐	☐	☐	☐	
20-069	C304598	528.60	529.30	1.52	280	☐	☐	☐	☐	
20-071	B700785	529.30	530.10	3.47	80	☐	☐	☐	☐	
20-069	C304599	530.10	531.10	0.01	460	☐	☐	☐	☐	
20-069	C304600	531.10	532.42	0.01	240	☐	☐	☐	☐	
20-074	C304601	532.42	532.92	0.00	1450	☐	☐	☐	☐	
20-074	C304602	532.92	533.38	0.06	280	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-074	C304603	533.38	533.90	0.00	1840	☐	☐	☐	☐	
20-074	C304604	533.90	534.40	0.03	1490	☐	☐	☐	☐	
20-074	C304605	534.40	537.40	0.00	1180	☐	☐	☐	☐	
20-074	C304606	537.40	539.70	0.00	1500	☐	☐	☐	☐	
20-074	C304608	539.70	541.09	0.01	2390	☐	☐	☐	☐	
20-074	C304609	541.09	542.10	0.01	1180	☐	☐	☐	☐	
20-074	C304610	542.10	543.55	0.00	2170	☐	☐	☐	☐	
20-074	C304611	543.55	545.05	0.00	2390	☐	☐	☐	☐	
20-071	B700786	545.05	545.55	0.09	850	☐	☐	☐	☐	
20-074	C304612	545.55	546.40	0.01	2550	☐	☐	☐	☐	
20-074	C304613	545.55	546.40	0.01	2590	☐	☑	☐	☐	coarse rej
20-074	C304614	546.40	547.20	0.00	2160	☐	☐	☐	☐	
20-071	B700788	547.20	547.92	0.36	580	☐	☐	☐	☐	
20-074	C304615	547.92	549.40	0.00	2280	☐	☐	☐	☐	
20-074	C304616	549.40	552.40	0.01	2500	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-074	C304617	552.40	554.10	0.00	2420	☐	☐	☐	☐	
20-074	C304618	554.10	555.85	0.00	2350	☐	☐	☐	☐	
20-074	C304619	555.85	557.35	0.00	2420	☐	☐	☐	☐	
20-074	C304620	557.35	557.85	0.00	2360	☐	☐	☐	☐	
20-074	C304621	557.35	557.85	0.00	2300	☑	☐	☐	☐	quarter dup
20-074	C304622	557.85	558.35	0.01	2420	☐	☐	☐	☐	
20-074	C304623	558.35	560.00	0.00	1930	☐	☐	☐	☐	
20-074	C304624	560.00	563.00	0.01	2260	☐	☐	☐	☐	
20-074	C304625	563.00	566.00	0.00	2320	☐	☐	☐	☐	
20-074	C304626	566.00	569.00	0.01	2150	☐	☐	☐	☐	
20-074	C304628	569.00	572.00	0.00	2240	☐	☐	☐	☐	
20-074	C304629	572.00	573.80	0.00	2310	☐	☐	☐	☐	
20-074	C304630	573.80	575.30	0.00	2550	☐	☐	☐	☐	
20-074	C304631	575.30	575.80	0.02	1460	☐	☐	☐	☐	
20-074	C304632	575.80	577.30	0.01	2270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-074	C304633	577.30	580.30	0.00	2040	☐	☐	☐	☐	
20-074	C304634	580.30	583.20	0.00	2180	☐	☐	☐	☐	
20-074	C304635	583.20	586.20	0.00	2350	☐	☐	☐	☐	
20-074	C304636	586.20	589.20	0.00	2320	☐	☐	☐	☐	
20-074	C304637	589.20	592.20	0.00	2250	☐	☐	☐	☐	
20-074	C304639	592.20	594.20	0.00	1940	☐	☐	☐	☐	
20-074	C304640	594.20	596.55	0.00	2200	☐	☐	☐	☐	
20-075	C304221	596.55	598.05	0.00	2530	☐	☐	☐	☐	
20-075	C304222	598.05	598.55	0.01	1920	☐	☐	☐	☐	
20-075	C304223	598.55	600.05	0.00	2370	☐	☐	☐	☐	
20-075	C304224	598.55	600.05	0.00	2420	☐	☑	☐	☐	coarese rej
20-075	C304225	600.05	603.05	0.00	2110	☐	☐	☐	☐	
20-075	C304226	603.05	604.90	0.00	2370	☐	☐	☐	☐	
20-075	C304227	604.90	606.40	0.00	2540	☐	☐	☐	☐	
20-075	C304228	606.40	607.90	0.00	2110	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-071	B700789	607.90	608.30	2.13	90	☐	☐	☐	☐	
20-071	B700790	608.30	608.96	0.15	530	☐	☐	☐	☐	
20-075	C304229	608.96	610.45	0.07	580	☐	☐	☐	☐	
20-075	C304230	610.45	613.33	0.02	1400	☐	☐	☐	☐	
20-075	C304231	613.33	614.83	0.04	1410	☐	☐	☐	☐	
20-071	B700791	614.83	615.33	1.76	100	☐	☐	☐	☐	
20-071	B700792	615.33	615.83	1.35	490	☐	☐	☐	☐	
20-075	C304232	615.83	617.33	0.01	2350	☐	☐	☐	☐	
20-075	C304233	617.33	619.20	0.01	2340	☐	☐	☐	☐	
20-075	C304234	619.20	621.00	0.01	2330	☐	☐	☐	☐	
20-075	C304235	621.00	621.50	0.00	1800	☐	☐	☐	☐	
20-075	C304236	621.50	623.00	0.01	3260	☐	☐	☐	☐	
20-076	C304237	623.00	626.00	0.01	1270	☐	☐	☐	☐	
20-076	C304238	626.00	629.00	0.02	1330	☐	☐	☐	☐	
20-076	C304239	629.00	632.00	0.01	2160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-076	C304240	632.00	635.00	0.01	2490	☐	☐	☐	☐	
20-076	C304242	635.00	637.00	0.04	1740	☐	☐	☐	☐	
20-076	C304243	637.00	638.70	0.01	960	☐	☐	☐	☐	
20-076	C304244	638.70	639.20	0.11	860	☐	☐	☐	☐	
20-076	C304245	638.70	639.20	0.10	790	☑	☐	☐	☐	1/4 duplicate
20-076	C304246	639.20	640.70	0.02	880	☐	☐	☐	☐	
20-076	C304247	640.70	643.41	0.01	1420	☐	☐	☐	☐	
20-076	C304248	643.41	645.00	0.01	720	☐	☐	☐	☐	
20-076	C304249	645.00	645.50	0.08	2260	☐	☐	☐	☐	
20-076	C304250	645.50	647.00	0.01	1270	☐	☐	☐	☐	
20-076	C304641	647.00	647.50	0.11	640	☐	☐	☐	☐	
20-076	C304643	647.50	649.84	0.02	900	☐	☐	☐	☐	
20-076	C304644	649.84	650.34	0.01	1140	☐	☐	☐	☐	
20-076	C304645	650.34	651.07	0.03	290	☐	☐	☐	☐	
20-076	C304646	651.07	651.74	0.01	2690	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-076	C304647	651.74	652.29	0.01	5310	☐	☐	☐	☐	
20-076	C304648	652.29	652.96	0.00	3000	☐	☐	☐	☐	
20-076	C304649	652.96	655.90	0.01	1180	☐	☐	☐	☐	
20-076	C304650	652.96	655.90	0.01	1220	☐	☑	☐	☐	Coarse Reject duplicate
20-076	C304651	655.90	658.90	0.01	1130	☐	☐	☐	☐	
20-076	C304652	658.90	661.15	0.00	1560	☐	☐	☐	☐	
20-076	C304653	661.15	663.40	0.01	2860	☐	☐	☐	☐	
20-076	C304654	663.40	665.90	0.00	1650	☐	☐	☐	☐	
20-076	C304655	665.90	668.36	0.02	1810	☐	☐	☐	☐	
20-076	C304656	668.36	669.45	0.01	1480	☐	☐	☐	☐	
20-076	C304657	669.45	669.95	0.15	530	☐	☐	☐	☐	
20-076	C304659	669.95	671.45	0.02	1800	☐	☐	☐	☐	
20-076	C304660	671.45	674.45	0.00	2320	☐	☐	☐	☐	
20-076	C304661	674.45	677.45	0.01	1810	☐	☐	☐	☐	
20-076	C304662	677.45	679.85	0.02	1310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-076	C304663	679.85	680.35	0.02	2150	☐	☐	☐	☐	
20-076	C304664	680.35	681.85	0.01	2740	☐	☐	☐	☐	
20-076	C304665	681.85	682.35	0.05	1770	☐	☐	☐	☐	
20-076	C304666	682.35	683.63	0.05	1440	☐	☐	☐	☐	
20-077	C304667	683.63	684.13	0.13	630	☐	☐	☐	☐	
20-071	B700794	684.13	684.63	0.24	340	☐	☐	☐	☐	
20-077	C304668	684.63	685.37	0.03	600	☐	☐	☐	☐	
20-077	C304669	685.37	685.87	0.09	450	☐	☐	☐	☐	
20-077	C304670	685.87	686.37	0.02	900	☐	☐	☐	☐	
20-071	B700795	686.37	686.87	0.39	790	☐	☐	☐	☐	
20-077	C304671	686.87	687.75	0.07	410	☐	☐	☐	☐	
20-071	B700796	687.75	688.15	2.39	230	☐	☐	☐	☐	
20-077	C304672	688.15	689.50	0.01	2100	☐	☐	☐	☐	
20-077	C304673	689.50	690.00	0.32	770	☐	☐	☐	☐	
20-077	C304674	689.50	690.00	0.25	920	☑	☐	☐	☐	quarter dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-077	C304675	690.00	692.15	0.00	2570	☐	☐	☐	☐	
20-077	C304676	692.15	692.65	0.05	710	☐	☐	☐	☐	
20-077	C304677	692.65	695.65	0.00	2150	☐	☐	☐	☐	
20-077	C304678	695.65	698.65	0.00	1620	☐	☐	☐	☐	
20-077	C304680	698.65	701.65	0.00	1370	☐	☐	☐	☐	
20-077	C304681	701.65	704.65	0.00	2360	☐	☐	☐	☐	
20-077	C304682	704.65	707.65	0.00	1780	☐	☐	☐	☐	
20-077	C304683	707.65	710.65	0.01	2190	☐	☐	☐	☐	
20-077	C304684	710.65	713.65	0.00	2520	☐	☐	☐	☐	
20-077	C304685	713.65	715.55	0.00	2360	☐	☐	☐	☐	
20-077	C304686	715.55	716.05	0.07	1560	☐	☐	☐	☐	
20-077	C304687	716.05	716.55	0.01	2030	☐	☐	☐	☐	
20-071	B700517	716.55	717.05	0.12	710	☐	☐	☐	☐	
20-077	C304689	717.05	720.00	0.00	2510	☐	☐	☐	☐	
20-077	C304690	720.00	723.00	0.00	2490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-077	C304691	723.00	726.00	0.00	2330	☐	☐	☐	☐	
20-077	C304692	726.00	728.50	0.00	2250	☐	☐	☐	☐	
20-077	C304693	728.50	729.00	0.01	1810	☐	☐	☐	☐	
20-077	C304694	729.00	729.70	0.01	2230	☐	☐	☐	☐	
20-077	C304695	729.70	732.70	0.02	400	☐	☐	☐	☐	
20-077	C304696	732.70	733.56	0.01	260	☐	☐	☐	☐	
20-071	B700518	733.56	734.06	0.09	2530	☐	☐	☐	☐	
20-077	C304697	734.06	735.00	0.02	390	☐	☐	☐	☐	
20-077	C304698	734.06	735.00	0.02	380	☐	☑	☐	☐	Coarse Reject
20-077	C304699	735.00	737.50	0.01	1920	☐	☐	☐	☐	
20-077	C304700	737.50	738.00	0.02	1550	☐	☐	☐	☐	
20-077	C304702	738.00	740.00	0.01	1670	☐	☐	☐	☐	
20-077	C304703	740.00	740.90	0.01	380	☐	☐	☐	☐	
20-077	C304704	740.90	741.60	0.01	860	☐	☐	☐	☐	
20-077	C304705	741.60	743.75	0.00	3700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-077	C304706	743.75	744.25	0.01	3650	☐	☐	☐	☐	
20-078	C304707	744.25	746.00	0.00	2270	☐	☐	☐	☐	
20-078	C304708	746.00	746.90	0.02	630	☐	☐	☐	☐	
20-071	B700519	746.90	747.40	0.04	280	☐	☐	☐	☐	
20-078	C304709	747.40	749.05	0.01	1210	☐	☐	☐	☐	
20-078	C304710	749.05	749.55	0.08	450	☐	☐	☐	☐	
20-078	C304711	749.55	752.55	0.01	1730	☐	☐	☐	☐	
20-078	C304713	752.55	753.05	0.04	220	☐	☐	☐	☐	
20-078	C304714	753.05	755.03	0.02	2220	☐	☐	☐	☐	
20-078	C304715	755.03	755.59	0.02	680	☐	☐	☐	☐	
20-078	C304716	755.59	757.75	0.01	2310	☐	☐	☐	☐	
20-078	C304718	757.75	758.25	0.02	1410	☐	☐	☐	☐	
20-078	C304719	758.25	759.60	0.02	2560	☐	☐	☐	☐	
20-078	C304720	759.60	761.13	0.02	1490	☐	☐	☐	☐	
20-071	B700521	761.13	761.63	0.94	250	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-071	B700522	761.13	761.63	0.99	240	☑	☐	☐	☐	
20-071	B700523	761.63	762.13	0.19	280	☐	☐	☐	☐	
20-071	B700524	762.13	762.73	0.07	570	☐	☐	☐	☐	
20-071	B700525	762.13	762.73	0.07	540	☐	☑	☐	☐	
20-078	C304721	762.73	765.73	0.03	2390	☐	☐	☐	☐	
20-078	C304722	765.73	768.61	0.01	3180	☐	☐	☐	☐	
20-078	C304723	768.61	771.60	0.01	2850	☐	☐	☐	☐	
20-078	C304724	768.61	771.60	0.01	2610	☑	☐	☐	☐	Quarter Dup
20-078	C304725	771.60	774.60	0.01	2230	☐	☐	☐	☐	
20-078	C304726	774.60	775.56	0.47	1410	☐	☐	☐	☐	
20-071	B700526	775.56	776.06	1.24	300	☐	☐	☐	☐	
20-078	C304727	776.06	777.00	0.06	2470	☐	☐	☐	☐	
20-078	C304728	777.00	779.35	0.01	2740	☐	☐	☐	☐	
20-071	B700527	779.35	779.85	0.50	680	☐	☐	☐	☐	
20-078	C304729	779.85	782.85	0.01	2390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-078	C304730	782.85	783.40	0.02	2800	☐	☐	☐	☐	
20-071	B700528	783.40	783.90	0.13	1050	☐	☐	☐	☐	
20-079	C304251	783.90	784.86	0.01	2080	☐	☐	☐	☐	
20-078	C304731	784.86	785.40	0.11	3290	☐	☐	☐	☐	
20-078	C304732	785.40	787.31	0.08	1660	☐	☐	☐	☐	
20-071	B700529	787.31	787.91	0.39	230	☐	☐	☐	☐	
20-071	B700530	787.91	788.61	0.26	530	☐	☐	☐	☐	
20-078	C304733	788.61	789.50	0.03	4230	☐	☐	☐	☐	
20-078	C304734	789.50	790.00	0.01	490	☐	☐	☐	☐	
20-078	C304735	789.50	790.00	0.01	480	☐	☑	☐	☐	Coarse Reject
20-078	C304736	790.00	792.00	0.00	3000	☐	☐	☐	☐	
20-071	B700531	792.00	792.50	0.15	570	☐	☐	☐	☐	
20-078	C304737	792.50	793.00	0.01	1030	☐	☐	☐	☐	
20-078	C304738	793.00	796.00	0.00	1900	☐	☐	☐	☐	
20-078	C304739	796.00	799.00	0.00	1160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-078	C304740	799.00	802.00	0.01	1070	☐	☐	☐	☐	
20-078	C304741	802.00	805.00	0.02	580	☐	☐	☐	☐	
20-078	C304742	805.00	808.00	0.00	210	☐	☐	☐	☐	
20-078	C304743	808.00	811.00	0.00	160	☐	☐	☐	☐	
20-078	C304744	811.00	813.50	0.00	260	☐	☐	☐	☐	
20-071	B700532	813.50	814.00	0.03	1320	☐	☐	☐	☐	
20-078	C304745	814.00	816.63	0.01	440	☐	☐	☐	☐	
20-079	C304747	816.63	819.63	0.04	600	☐	☐	☐	☐	
20-079	C304748	819.63	822.63	0.03	710	☐	☐	☐	☐	
20-079	C304749	822.63	825.63	0.02	550	☐	☐	☐	☐	
20-079	B700797	825.63	827.75	0.03	550	☐	☐	☐	☐	
20-079	B700798	827.75	828.25	0.10	450	☐	☐	☐	☐	
20-079	B700799	828.25	830.15	0.01	530	☐	☐	☐	☐	
20-079	C304252	830.15	830.75	0.04	200	☐	☐	☐	☐	
20-079	C304253	830.75	831.50	0.03	140	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-079	C304255	831.50	834.50	0.02	1000	☐	☐	☐	☐	
20-079	C304256	834.50	837.50	0.02	800	☐	☐	☐	☐	
20-079	C304257	834.50	837.50	0.01	950	☑	☐	☐	☐	1/4 DUP
20-071	B700533	837.50	838.00	0.04	440	☐	☐	☐	☐	
20-079	C304258	838.00	839.10	0.01	580	☐	☐	☐	☐	
20-079	C304259	839.10	839.60	0.02	230	☐	☐	☐	☐	
20-079	C304260	839.60	842.60	0.01	1510	☐	☐	☐	☐	
20-079	C304261	842.60	845.60	0.01	1300	☐	☐	☐	☐	
20-079	C304262	845.60	848.60	0.01	1540	☐	☐	☐	☐	
20-079	C304263	848.60	851.20	0.01	1310	☐	☐	☐	☐	
20-079	C304264	851.20	851.70	0.01	790	☐	☐	☐	☐	
20-079	C304265	851.70	854.70	0.01	960	☐	☐	☐	☐	
20-079	C304266	854.70	855.90	0.01	1410	☐	☐	☐	☐	
20-079	C304267	855.90	856.80	0.01	940	☐	☐	☐	☐	
20-079	C304268	855.90	856.80	0.01	970	☐	☑	☐	☐	coarse reject

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-079	C304269	856.80	857.69	0.01	1660	☐	☐	☐	☐	EOH!

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
3.05	3.65	FR	5	5	NUL	1	Large fracute that is slightly undulating and running sub parallel tca.			
8.99	9.02	VT	37	80	NUL	1	Small white and light grey quartz vein.			
14.62	14.78	SH	81	0	NUL	1	Small shear that is light blue clay alteration.			
32.09	32.22	VN	37	90	NUL	1	Quartz / sulphide vein. Light grey to dark grey quartz with blebby pyrite, sphalerite and trace galena.			
								Sp	0.5	BL
								Gn	0.1	BL
								Py	2	BL
39.00	39.06	GO	34	70	NUL	1	Gouge zone			
39.06	39.07	VT	37	70	NUL	1	Quartz / sulphide vein occurring after gouge zone - quartz is light to dark grey with blebby sphalerite as well as cream colored carbonate alteration. There is also some trace galena.			
								Sp	2	BL
								Gn	0.1	BL
39.24	39.48	ST		65	NUL	2	2 pyrite/ quartz stringers in this interval. They are 2 mm wide.			
								Py	0.5	BL
43.57	43.90	FR	5	10	NUL	1	Fracture almost sub parallel tca. Fracture is slightly undulating.			
68.68	69.53	FR	5	7	NUL	1	Fracture running sub-parallel tca.			
77.08	77.13	VN	37	45	NUL	1	Quartz vein with sulphides - the quartz is white to light pink in color with light grey and dark grey. There is blebby pyrite, galena as well as some minor sphalerite. Galena is occurring as blebby and along the vein selvage. There is also a black radiating mineral in the quartz.			
								Gn	1.5	BL
								Py	1	BL
								Sp	0.1	BL
81.92	81.93	VT	37	-	NUL	1	0.5 cm wide quartz veinlet that is on a broken piece of core that is light grey quartz with blebby pyrite occurring near the vein.			
								Py	0.3	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
87.81	89.92	BX	34	40	NUL	1	Brecciated QFP dyke.			
89.92	114.37	DY	37	-	NUL	1	QFP dyke.			
121.35	121.44	VT	37	50	NUL	2	Two dark grey quartz veinlets appears brecciated.			
130.63	130.66	VT	37	85	NUL	3	There are 3 quartz sulphide veins that are white to light grey that have blebby pyrite and galena.			
								Py	1	BL
								Gn	0.5	BL
132.32	132.34	VT	37	60	NUL	2	Two quartz / sulphide veins the first one is galena and the second one is pyrite.			
								Py	1.5	BL
								Gn	1.5	BL
135.39	135.40	VT	37	40	NUL	1	Quartz / sulphide vein with white to dark grey quartz with blebby pyrite throughout most of the vein.			
								Py	2.5	BL
140.30	140.33	VT	37	70	NUL	1	Local zone of pyrite and cream colored quartz.			
								Py	0.3	BL
140.86	148.85	DY	37	40	NUL	1	QFP dyke			
148.85	148.92	VT	37	90	NUL	2	2 quartz / sulphide veins that have blebby galena and sphalerite.			
								Sp	0.5	BL
								Gn	1	BL
149.53	149.88	VN	37	90	NUL	1	Quartz / sulphide vein zone. Veins are 2.5 - 4 cm wide. The quartz is white to light grey with blebby pyrite, galena, sphalerite as well as arsenopyrite. The arsenopyrite is fine grained but clustered together.			
								As	0.5	BL
								Sp	1	BL
								Gn	2	BL
								Py	2.5	BL
169.93	163.94	VT	37	65	NUL	1	Quartz sulphide vein - white to light grey quartz with white carboante atleration with blebby galena.			
								Gn	0.5	BL
170.38	170.48	VT	37	20	NUL	1	Quartz / sulpide vein. White to light grey quartz with blebby pyrite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.5	BL
173.49	173.51	VT	37	-	NUL	1	Local sulphide zone that is rubbled up with blebby pyrite and galena.			
								Gn	1.5	BL
								Py	0.5	BL
181.01	181.16	VN	37	85	NUL	1	Quartz / sulphide vein. The quartz is white to light grey with blebby sulphides - pyrite, galena and sphalerite. There is also light white to cream colored carbonate in this vein.			
								Sp	2.5	BL
								Py	2	BL
								Gn	0.5	BL
183.00	183.64	VN	37	45	NUL	1	Large carbonate / quartz vein that is milky white with wall rock inclusions in the vein as well as black tourmaline? Clasts? The upper and lower contacts have minor brecciation and gouge.			
								To	0.1	BL
186.95	186.98	VN	37	85	NUL	1	Dark grey to light grey quartz with blebby pyrite, galena and sphalerite.			
								Py	0.5	BL
								Sp	0.5	BL
								Gn	0.5	BL
193.74	193.74	ST		70	NUL	1	Quartz / sulphide vein. Quartz is white to light grey with cream colored carbonate alteration along the vein selvage. There is blebby galena in this quartz vein.			
								Gn	0.5	BL
197.30	198.51	FT	42	-	NUL	1	Small fault zone with rubble and minor gouge.			
199.55	199.59	VN	37	-	NUL	1	Quartz / sulphide vein with blebby galena and some minor pyrite.			
								Gn	2	BL
								Py	0.5	BL
206.08	206.08	ST		70	NUL	1	1 mm wide quartz / sulphide stringer with white quartz and blebby galena.			
								Gn	0.1	BL
207.37	207.37	ST		80	NUL	1	5 mm wide quartz / sulphide stringer with light grey to white quartz with blebby galena.			
								Gn	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
208.10	208.42	VN	37	-	NUL	1	Zone of irregular quartz veining that is dark to medium grey. Blebby pyrite, galena and sphalerite that is disseminated in this quartz vein.			
								Gn	1	BL
								Sp	1	BL
								Py	1	BL
209.00	209.08	VN	37	-	NUL	1	Irregular vein zone with sulphides. White to dark grey quartz with blebby pyrite, galena and spalerite - trace.			
								Py	0.1	BL
								Gn	0.1	BL
								Sp	0.1	BL
210.96	210.98	VN	37	85	NUL	1	Quartz / sulphide vein. White to light grey quartz with blebby galena, pyrite and sphalerite.			
								Gn	0.5	BL
								Sp	0.1	BL
								Py	0.3	BL
219.32	219.39	VN	37	85	NUL	1	Quartz / sulphide vein. White, light grey to dark grey quartz with blebby sphalerite, pyrite and galena.			
								Sp	1.5	BL
								Py	0.5	BL
								Gn	0.1	BL
220.62	220.64	VN	37	75	NUL	1	Quartz / sulphide vein. Light grey to white quartz vein with white carbonate alteration along the vein selvage. There is blebby galena occurring in the middle of the vein as well as sphalerite. There is blebby sphalerite and pyrite occurring outside of the vein as well.			
								Gn	1.5	BL
								Sp	0.5	BL
								Py	0.1	BL
221.26	221.29	VN	37	75	NUL	1	Quartz / sulphide vein. Light grey to white quartz with blebby galena, sphalerite and pyrite. The sulphides occur along the center of the vein there is also carboante alteration coming in along the vein selvages.			
								Sp	1	BL
								Gn	0.5	BL
								Py	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
225.63	225.86	DY	37	60	NUL	1	QFP dyke?			
226.54	226.65	VT	37	20	NUL	1	White quartz veinlet that is 1 cm wide and shallowly dipping. There is coarse grained pyrite occurring in this veinlet.			
								Py	0.5	BL
228.46	228.85	FT	42	50	NUL	1	Small fault zone with rubble.			
231.08	231.09	VT	37	80	NUL	1	White to light grey quartz with buff carbonate alteration at the lower vein selvage. There is blebby sphalerite, galena and pyrite.			
								Py	0.1	BL
								Gn	0.1	BL
								Sp	0.1	BL
234.44	234.45	VT	37	75	NUL	1	1 cm wide quartz veinlet that is white to light grey with blebby pyrite.			
								Py	0.5	BL
234.48	234.50	DY	37	75	NUL	1	Small QFP dyke? Same as above one at 225.63 - 225.86 m.			
235.52	235.72	VN	37	-	NUL	1	4 Different quartz veins the first three are dark grey with carbonate alteration along the selvages. The last one is white to light grey to dark grey quartz with blebby pyrite, galena and sphalerite.			
								Gn	0.1	BL
								Py	0.5	BL
								Sp	0.1	BL
237.61	238.12	VN	37	-	NUL	1	Dark grey to light grey to white quartz that is irregular in shape. There is white carboante occurring along the vein selvages. There is blebby pyrite, sphalerite and galena.			
								Py	1.5	BL
								Sp	3	BL
								Gn	0.1	BL
238.68	238.69	VT	37	70	NUL	1	Quartz / sulphide veinlet. White to light grey quartz with carbonate along the lower contact of the veinlet. In the middle of the vein there is blebby galena, pyrite and sphalerite occurring all together.			
								Gn	0.5	BL
								Sp	0.5	BL
								Py	0.5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
239.80	241.47	BX	34	-	NUL	1	Breccia zone.			
240.73	240.80	VN	37	85	NUL	1	Quartz / sulphide vein. White to light grey quartz with blebby galena, sphalerite and pyrite.			
								Py	0.1	BL
								Gn	0.5	BL
								Sp	0.1	BL
257.68	257.68	ST		60	NUL	1	Quartz / sulphide stringer. Quartz is light grey to white and we have blebby pyrite, galena and sphalerite.			
								Gn	0.3	BL
								Sp	0.1	BL
								Py	0.1	BL
260.38	260.66	VT	37	-	NUL	5	5 separate quartz / sulphide stringers and veinlets. Quartz is white to light grey to dark grey with blebby pyrite and galena.			
								Py	0.5	BL
								Gn	0.1	BL
269.78	271.44	FT	42	-	NUL	1	Fault zone with rubble - 60% and a competent piece of core - 40%.			
274.90	275.01	VT	37	25	NUL	1	Quartz veinlet that is white with blebby black tourmaline? As well as some minor pyrite			
								To	0.5	BL
								Py	0.1	BL
275.62	276.04	BX	34	-	NUL	1	Small breccia zone.			
276.04	276.96	VN	37	-	NUL	1	Vein zone with medium grey cherty looking quartz vein that is througout this interval.			
276.96	277.16	VN	37	-	NUL	1	Irregular quartz / sulphide vein with strong blebby black sphalerite as well as pyrtie and galena. There is carbonate alteration coming in along vein selvages there is also open space cavities infilled with barite.			
								Sp	4	BL
								Py	1.5	BL
								Gn	0.5	BL
277.35	277.37	VN	37	80	NUL	1	shalerite-quartz-py-gal vein, 2.5cm wide, qtz on outside of vein, sulphides in middle section			
								Sp	55	---
								Py	5	---
								Gn	5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
277.90	277.91	FR	5	78	NUL	1	small zone of fractured bleached interval. Silica flooding.			
278.55	278.56	FR	5	38	NUL	1	zone of interwebbed fractures infilled with chlorite and silica			
280.57	280.58	VT	37	55	NUL	1	grey qtz, goethite, hematite, minor py, minor carbonate			
								Go	7	---
								Py	1	---
								He	1	---
280.57	280.58	VT	37	61	NUL	1	small qtz carbonate veinlet with minor py hem and goethite			
								Go	2	---
								He	2	---
								Py	3	---
283.80	283.81	VT	37	55	NUL	1	small carbonate veinlet, vuggy, trace py			
								Py	1	---
286.90	287.10	VT	37	--	NUL	3	swarm of three small qtz veinlets w trace py			
288.40	288.45	ST		-	NUL	1	strained interval, rubbly			
289.00	289.02	VN	37	15	NUL	1	vein of greenish grey chalcedonic quartz			
	289.02	VT	37	15	NUL	1	low angle chalcedonic quartz vein			
290.20	290.40	FR	5	55	NUL	3	fracture set			
291.50	291.55	ST		-	NUL	1	strained interval, rubbly			
292.50	292.51	VT	37	68	NUL	1	small 1cm quartz carboante veinlet with py and sphal, trace gn			
								Gn	1	---
								Sp	5	---
								Py	5	---
292.50	292.51	VT	37	75	NUL	1	small qtz-carb-py-sphal veinlet			
294.00	294.50	BN		18	NUL	1	band of red alteration in GRD. Hematite staining? Weak to moderately clay altered and/or bleached in innermost portion of altered band			
295.00	295.01	VT	37	5	NUL	1	1cm qtz vein with honey brown sphalerite and black mineral assumed to be schorl(?) and minor Py			
								Py	4	---
								To	7	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	10	---
295.24	295.66	BX	34	-	NUL	1	brecciated interval peppered with small patches of sulphides, Gal, py and sphal. Breccia infill is white and pale salmon coloured carbonate (dolomite -+ rhodochrosite?). Clasts of fine grained chalcedonic quartz.			
								Py	0.5	---
								Sp	0.5	---
								Gn	2	---
296.50	297.00	VT	37	18	NUL	2	carboante veinelts, vuggy			
296.95	296.96	VT	37	45	NUL	1	carboante veinlet			
298.00	299.40	FR	5	3	NUL	2	very low angle vt with rubbly, chlorite and qtz carboante cemented material with some py and hem minor Geothite/magnetite			
								Go	0.1	---
								He	0.1	---
								Mg	0.1	---
								Py	0.5	---
306.80	306.82	VT	37	76	NUL	1	qtz carbaonte vein with sphal and Gal and Py			
								Sp	3	---
								Gn	5	---
								Py	3	---
307.50	307.51	VT	37	85	NUL	1	>1c qtz carbonate veinlet, barren			
307.55	307.56	BX	34	75	NUL	1	small carboante cemented breccia with clasts of chalcedonic quartz and carboante containing minor sulphides			
								Py	1	---
308.00	308.05	VT	37	50	NUL	1	broken and recemented carboante vein, light salmon in colour, with calcite clasts/fragments included			
308.20	308.80	DY	37	76	NUL	3	aplite dykes / siliceous dykes, 20cm, 2cm, and 8cm wide. Greenish grey, commonly stained with hematite alteration.			
308.70	308.72	VN	37	80	NUL	1	chalcedonic quartz and cream coloured carboante, minor sulphides, py, sphal, gal, and also jamesonite present			
								Ja	2	---
								Py	3	---
								Sp	1	---
								Gn	1	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
308.90	308.91	SH	81	45	NUL	1	grey blue clay minerals in shear, dumorturite(?).			
	309.30	VN	37	-	NUL	2	light salmon-cream coloured carboante vein with some calcite and quartz, bount on upper contact against shear, lower portion is smaller separate vein with significant sphal over 2cm vein width. Minor Gn and Py			
								Py	1	---
								Sp	3	---
								Gn	1	---
321.00	321.01	VT	37	45	NUL	1	small veinlet with chalcedonic quartz, light cream-salmon carbonate (like the colour of mums seafood chowder base), and trace sphal and Py			
								Py	1	---
								Sp	1	---
321.12	322.16	BX	34	-	NUL	1	silicified breccia			
325.00	325.30	BX	34	-	NUL	1	interval of carboante chalcedony breccia in altered GRD			
325.90	325.10	BX	34	-	NUL	1	interval of chalcedony carbonate breccia, vuggy			
328.35	329.15	BX	34	-	NUL	1	interval of fracutred and void-y breccia, clasts coated with chalcedony, then rebrecciated, angular, unmineralized			
329.85	329.87	VT	37	30	NUL	1	chalcedony vein, 2cm thick, cutting altered GRD			
331.30	331.32	VT	37	80	NUL	1	quartz-carbonate veinlet, with some sulphides present as well, generally on the outside of the vein. Sphalerite and Pyrite with minor Galena			
								Sp	3	---
								Py	2	---
								Gn	1	---
339.00	339.01	VT	37	70	NUL	1	small qtz veinlet with 3cm bleached halo			
340.07	340.08	SH	81	80	NUL	1	small shear/clay veinlet(?) with 20 cm bleaching halo with strong silicification near to feature			
342.40	342.45	VT	37	80	NUL	2	two small qtz carbonate veinlets with minor py, aspy sphal, and trace gal.			
								Gn	1	---
								Py	3	---
								As	2	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Sp	3	---
346.07	346.12	VT	37	51	NUL	1	brecciated chalcedonic quartz veinlet trace py and other dark mineral, sphal(?)			
347.20	348.30	VT	37	65	NUL	5	series of small chalcedonic quartz veinlets from 2-10mm with py sphal, and gal			
								Sp	1	---
								Gn	1	---
								Py	1	---
349.05	349.06	VT	37	80	NUL	1	small veinlet, mm of qtz on outside of veinlet, then carboante inside			
350.25	350.26	VT	37	75	NUL	1	qtz-sphal veinlet with minro py and gal			
								Py	2	---
								Sp	20	---
								Gn	2	---
350.25	350.26	VT	37	75	NUL	1	small qtz-sphal veinlet with trace py and Gal			
								Sp	40	---
								Py	1	---
								Gn	2	---
351.15	351.16	VT	37	82	NUL	1	2mm qtz veinlet with Py, Cpy, Gn and Sp			
								Py	5	---
								Sp	5	---
								Gn	3	---
								Cp	3	---
352.00	352.04	VN	37	80	NUL	1	multi stage veining, qtz-gn-sp-py on outside, pinkish carbonate inside of vein. Inside brecciated with dolomite(?) clasts?			
								Sp	5	---
								Py	2	---
								Gn	5	---
354.60	354.61	VT	37	75	NUL	1	small qtz veinlet with minor py and sphal and gal			
								Gn	2	---
								Sp	3	---
								Py	3	---
356.88	356.95	BX	34	55	NUL	1	brecciated chalcedonic quartz veinlet with bands of carbonate and country rock			
358.00	358.06	VT	37	80	NUL	1	pinkish carbiaonte qtz veinlet with py in vein and dissemniated in rock around, trace gn.			
								Gn	0.5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	4	---
359.90	361.00	VT	37	75	NUL	2	two stringers, identical in nature, 1.1m apart. Identical alteration halos and everything. Way cool.			
363.50	363.55	BX	34	-	NUL	1	carboante breccia, infilling in broken altered GRD			
365.00	365.50	VT	37	76	NUL	3	small carbonate-qyuartz veinlets with alteration bleaching halos. Silicification alteration around them as well.			
365.76	367.83	FT	42	-	NUL	1	Small fault with gouge coming in along fracture surfaces. There is chloritic alteration in the gouge as wel as calcite.			
370.92	370.92	ST		80	NUL	1	Quartz stringer that is white to light grey with sulphides. There is patchy hematite alteration as well as medium grained disseminated pyrite.			
								Py	0.1	DI
372.44	372.45	FR	5	35	NUL	1	Fracture that is infilled with calcite - 3 mm wide with chlorite coming in along the calcite selvages.			
372.78	373.31	FT	42	55	NUL	1	Small fault zone with light blue / green clay and calcite alteration.			
373.40	373.41	VT	37	55	NUL	1	Quartz / carbonate veinlet that has irregular contacts.			
374.08	374.42	FR	5	5	NUL	1	Fracture that is almost sub-parallel tca that is infilled with calcite - 2 mm wide.			
374.21	374.24	ST		75	NUL	3	3 quartz/ carbonate stringers.			
377.22	377.23	VT	37	80	NUL	1	0.5 cm wide quartz veinlet. Milky white.			
384.13	384.15	VN	37	70	NUL	1	Milky white to light grey glassy quartz with medium grained pyrite.			
								Py	0.5	DI
385.31	385.32	VT	37	45	NUL	1	White to light grey to dark grey quartz with medium grained pyrite - disseminated.			
								Py	0.1	DI
387.34	387.36	FR	5	50	NUL	1	Fracture infilled with gouge and light blue clay and calcite alteration.			
389.17	389.48	FR	5	25	NUL	1	Fracture that is 4 cm wide and is infilled with calcite and some patchy hematite alteration.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
390.52	391.18	VT	37	7	NUL	1	Quartz veinlet that is running near sub parallel to the core axis. Quartz is white to light grey with patchy strong hematite alteration. Local patchy epidote occurring in and near the quartz selvage. There is also blebby pyrite.			
								He	5	BL
								Py	0.1	BL
393.05	393.58	FR	5	10	NUL	1	Fracture that is sub parallel tca. Locally there is epidote running near the fracture as well we see hematite staining along fracture surfaces.			
394.00	394.02	VN	37	85	NUL	1	Quartz vein that is light grey to dark grey with medium grained pyrite.			
								Py	0.1	DI
394.47	394.48	VN	37	85	NUL	1	Irregular quartz/ carbonate vein. White to light grey quartz.			
402.98	429.38	FT	42	-	NUL	1	Fault zone with local breccia, rubble, gouge as well as local zone of competent core. There are a few quartz/ sulphide veins in this interval.			
404.82	404.83	VN	37	65	NUL	1	Milky white quartz vein.			
407.89	407.90	VN	37	75	NUL	1	Milky white quartz vein to light grey with blebby pyrite and sphalerite.			
								Sp	0.5	BL
								Py	1	BL
412.90	412.92	VN	37	60	NUL	1	Quartz / sulphide vein. The quartz is light grey to dark grey quartz with blebby pyrite and sphalerite.			
								Sp	0.1	BL
								Py	0.1	BL
413.24	413.25	VT	37	75	NUL	1	Quartz / sulphide veinlet that is 4 mm wide it is light grey quartz with blebby sphalerite and pyrite.			
								Py	0.5	BL
								Sp	1	BL
414.21	414.22	VN	37	70	NUL	1	Quartz / sulphide vein. 1 cm wide white to light grey quartz with blebby pyrite. There is also pyrite along the veins fracture surface.			
								Py	1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
416.65	416.76	VN	37	65	NUL	1	Quartz / sulphide / carbonate vein that is 5 cm wide. The quartz is milky white to light grey. The carbonte is proabably ankerite? Reacts slowly to acid once scratched - cream colored. There is blebby pyrite, sphalerite and minor chalcopyrite. Pyrite and sphalerite is occurring in bands. The chalcopyrite is associated with the sphalerite.			
								Cp	0.1	BL
								Sp	4	BL
								Py	6	BL
437.59	437.61	VT	37	50	NUL	3	Set of quartz stringers to veinlets clustered together. Quartz is white to light grey with cream colored carbonate alteration coming in along the vein selvages. There is also galena and lesser pyrite occurring in these veins.			
								Py	0.1	BL
								Gn	0.5	BL
439.35	440.44	SH	81	10	NUL	1	Low angled shear with breccia occurring at the top half of the core and altered granodiorite at the lower half of the core this is occurring at the upper and lower contacts of the shear and in the middle of the shear it is all brecciated.			
								Py	0.3	DI
443.30	443.45	VN	37	25	NUL	1	Shallowly dipping quartz vein that is light grey to white with blebby pyrite.			
								Py	0.5	BL
446.10	446.14	ST		-	NUL	3	Quartz stringers locally clustered together. White to light grey quartz.			
448.05	448.08	VT	37	80	NUL	3	Set of 3 quartz stringers to veinlets that are white to light grey in color.			
450.54	450.55	VT	37	60	NUL	1	Quartz veinlet that is white to light grey in color with blebby pyrite.			
								Py	0.1	BL
451.50	451.52	VN	37	70	NUL	1	Milky white to light grey to dark grey with blebby pyrite, spalerite and galena.			
								Sp	0.1	BL
								Gn	0.1	BL
								Py	0.1	BL
456.95	457.03	VT	37	25	NUL	1	Quartz veinlet dipping shallowly 2 - 4 mm wide. Pyrite is blebby occurring along the vein selvage.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.1	BL
457.52	457.56	VN	37	70	NUL	1	Quartz vein that is white to cherty grey with blebby pyrite.			
460.25	477.17	DY	37	40	NUL	1	QFP dyke with sharp upper and lower contacts.			
477.77	477.78	VN	37	70	NUL	1	Quartz vein that has white to light grey with dark grey bands.			
479.50	179.60	VT	37	-	NUL	3	small grey qtz and py vienlets, at 20 and 70 deg tca			
								Py	2	---
479.87	479.92	VN	37	70	NUL	1	Quartz vein with white to light grey to dark grey quartz that has a banded appearance locally with blebby pyrite and sphalerite.			
								Py	0.1	BL
								Sp	0.1	BL
487.44	487.55	ST		60	NUL	5	Quartz / carbonate / pyrite stringers there is also some disseminated pyrite in between the stringers.			
								Py	0.3	BL
487.82	487.92	VN	37	60	NUL	1	Quartz / sulphide vein. There is white to light grey quartz with large blebby sphalerite, pyrite and chalcopyrite. The sphalerite is occurring in a large band and is locally associated with pyrite and chalcopyrite.			
								Sp	5	BL
								Py	3	BL
								Ch	0.1	BL
489.12	489.16	ST		60	NUL	3	Quartz / sulphide stringers. White to light grey quartz with cream colored carbonate as well as pyrite.			
								Py	0.1	BL
489.61	489.78	ST		-	NUL	6	Quartz / carbonate / sulphide stringers to veinlets with blebby pyrite.			
								Py	0.1	BL
490.51	490.82	VT	37	50	NUL	5	Quartz / carbonate / sulphide stringers to veinlets. White to light grey quartz with cream colored carbonate. There is pyrite and spalerite both are blebby.			
								Sp	0.1	BL
								Py	0.1	BL
490.98	491.01	VN	37	80	NUL	1	Quartz vein that is milky white.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
491.31	491.32	VN	37	70	NUL	1	Quartz vein that is light grey with cream colored carbonate. There is blebby pyrite in the vein selvage.			
491.53	491.58	ST		45	NUL	1	Quartz / sulphide stringer with blebby pyrite as well as some minor sphalerite.			
								Py	0.3	BL
								Sp	0.1	BL
493.59	493.65	VN	37	60	NUL	1	Light grey to white quartz with blebby pyrite there is also a smaller quartz / pyrite stringer that is is cross cutting this vein. Where the two intersect there is also some blebby sphalerite.			
								Py	3	BL
								Sp	0.1	BL
493.70	493.74	VN	37	60	NUL	1	White to light grey quartz that appears brecciated with blebby pyrite and sphalerite.			
								Py	2.5	BL
								Sp	2.5	BL
493.97	493.98	VT	37	50	NUL	1	White to light grey quartz veinlet with blebby pyrite.			
								Py	2	BL
498.81	498.83	VN	37	60	NUL	1	Quartz / sulphide vein that is white to light glassy grey with blebby pyrite in it.			
								Py	2.5	BL
499.85	499.87	VN	37	80	NUL	1	Quartz / sulphide vein that is white to glassy grey with white carbonate alteration and blebby pyrite.			
								Py	0.1	BL
500.16	500.20	VN	37	80	NUL	1	Brecciated quartz vein with white quartz with medium to dark grey quartz clasts floating in the white quartz matrix.			
503.17	503.25	VT	37	40	NUL	1	Milky white quartz veinlet with pyrite in and around the vein selvage.			
								Py	0.3	DI
505.56	505.58	VT	37	80	NUL	2	Two quartz veinlets that are white to light glassy grey in color with cream colored carbonate alteration. There is also some blebby pyrite occurring in this interval.			
								Py	0.1	BL
506.53	506.61	ST		70	NUL	3	Milky white to light grey quartz stringers with pyrite.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	0.1	DI
510.43	510.44	VT	37	75	NUL	1	Quartz / sulphide veinlet with white to light grey quartz. The sulphides are blebby - pyrite, galena and sphalerite.			
								Gn	2	BL
								Sp	2	BL
								Py	2	BL
510.63	510.65	VN	37	40	NUL	1	Quartz / sulphide vein with white to light grey quartz and blebby pyrite along the vein selvage.			
								Py	1.5	BL
510.75	510.77	VN	37	75	NUL	1	Quartz / sulphide vein - there is light to medium grey quartz with blebby pyrite, sphalerite and arsenopyrite.			
								As	0.5	BL
								Py	0.5	BL
								Sp	0.5	BL
511.22	511.23	VT	37	50	NUL	1	Quartz / sulphide veinlet that is white to light grey quartz with blebby pyrite, sphalerite as well galena.			
								Sp	0.1	BL
								Gn	0.1	BL
								Py	0.5	BL
515.70	515.80	VN	37	60	NUL	1	White to light grey to dark grey almost black quartz with local gouge occurring along fracture surfaces. There is cream colored carbonates occurring in this vein as well. Vein is brecciated. There is blebby fine grained pyrite that is clustered together there is also arsenopyrite.			
								Py	0.5	BL
								As	0.5	BL
517.02	517.06	VN	37	80	NUL	1	Quartz / sulphide vein. Bands of white to light grey to dark grey quartz with a intermixed middle. This vein has blebby pyrite, sphalerite, galena and arsenopyrite.			
								Py	3	BL
								Sp	0.5	BL
								Gn	0.1	BL
								As	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
522.67	522.72	VN	37	50	NUL	1	Irregular quartz vein with irregular contacts. White quartz with dark green dyke clasts occurring inside.			
523.02	527.27	DY	37	50	NUL	1	QFP dyke			
523.07	523.09	VN	37	80	NUL	1	White quartz vein with blebby pyrite as well as a dark dull black mineral?			
								Py	3	BL
524.42	524.26	VN	37	75	NUL	1	Quartz / sulphide vein - that is white and dark grey to near black quartz. In the middle of this iterval there is blebby pyrite.			
								Py	2.5	BL
528.27	528.45	VN	37	60	NUL	1	Quartz / sulphide vein with white to light grey quartz. There is blebby pyrite throughout this vein with some minor chalcopyrite associated with this pyrite. There is also trace galena in this vein locally associated with the other sulphides and found beside inself. Above and below this vein there is disseminated pyrite.			
								Py	10	BL
								Cp	0.5	BL
								Gn	0.1	BL
529.30	530.10	VN	37	-	NUL	2	Quartz / sulpide vein that is broken up with blebby pyrite and some chalcopyrite. White to light grey quartz.			
								Cp	0.5	BL
								Py	4	BL
531.25	531.27	VN	37	65	NUL	1	Quartz vein that is milky white to light grey to dark grey, near black quartz with gouge at the lower contact.			
532.47	532.92	DY	37	80	NUL	1	QFP dyke			
533.38	541.09	DY	37	70	NUL	1	QFP dyke			
533.96	534.09	BX	34	80	NUL	1	Dark grey quartz intermixed with dyke grains mixed in.			
539.90	541.00	GO	34	65	NUL	3	Gouged dyke			
540.92	541.09	FO	49	60	NUL	1	Foliated dyke.			
545.17	545.23	VT	37	45	NUL	1	Continuous and planar 5cm wide quartz-pyrite-chlorite vein with 1-2mm pyrite-biotite margins. Weak chlorite and moderate clay alteration selvage.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2	DI
545.23	545.35	VN	37	50	NUL	2	Irregular continous quartz carbonate veins with minor 3mm vugs. Interbedded biotite-pyrite stringers.			
								Py	1	DI
545.45	545.60	ST		40	NUL	2	Continuous planar cb 3mm stringers with hm-chl-py 1.5cm selvage. 1% py disseminated in selvages.			
								Py	1	DI
547.60	547.70	VN	37	80	NUL	1	Continuous planar 9.5cm wide quartz-bt-pyrite-chalcopyrite-black unidentified mineral (sulfosalt?) vein. Margins have strong clay-carbonate alteration. 50% Py, 1% Cpy, 10% black unidentified mineral.			
								Ss	10	BL
								Cp	2	BL
								Py	50	BL
556.26	558.50	VN	37	47	NUL	10	Continuous irregular and bt-ep-py stringers. 10-30% local blebby py in stringer and margins. Selvages have moderate to strong potassic alteration.			
								Py	15	DI
								Py	15	BL
557.50	557.60	VN	37	45	NUL	1	Continous stepped 5-10cm planar quartz carbonate vein with moderate to strong silica and clay alteration slevages.			
559.79	559.84	VN	37	80	NUL	3	Continuous planar quartz carbonate veinlets with moderate clay alteration in selvages.			
560.70	560.75	ST		50	NUL	5	Irregular continuous blebby py-cb stringers. Local blebby py 50% of stringers.			
								Py	50	BL
564.13	564.18	VT	37	35	NUL	1	1cm wide discontinuous sinstral qtz-bt-py vein. Py is blebby in vein and disseminated in moderate chlorite alteration selvages.			
								Py	10	BL
								Py	1	DI
565.70	574.55	VT	37	80	NUL	5	50-80 degree dipping qtz-cb veins with moderate chlorite alteration selvages.			
574.75	576.70	ST		50	NUL	9	50-80 degree dipping bt-py stringers. Local 50% py disseminated in stringers.			
								Py	50	DI

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
575.35	575.45	VN	37	50	NUL	1	50 degree irregular continuous qtz-cb vein with moderate clay alteration selvages.			
577.50	586.61	ST		50	NUL	20	30-80 degree cb stringers.			
579.78	579.88	VT	37	75	NUL	1	1cm qtz-bt-py veinlet with 2cm moderate chlorite alteration margins.			
								Py	2	DI
583.33	583.61	ST		45	NUL	5	Continuous planar and irregular bt-py stringers in moderate potassic alteration and hematite stained zone. Local py 50% of stringers.			
								Py	50	BL
593.73	594.18	VT	37	35	NUL	8	Continuous planar and irregular 6mm-1mm cb veinlets/stringers.			
594.79	594.85	VT	37	60	NUL	1	Continuous planar cb vein with moderate to strong 2cm chl-py alteration selvages. 2% py disseminated in selvages.			
597.00	604.59	VT	37	30	NUL	6	Continuous low angle to core axis cb veins. Veins have moderate clay alteration and are weakly competent.			
598.25	606.02	VT	37	80	NUL	6	Continuous planar 80-90 degree dipping qtz-bt-py veinlets with strong chlorite altered selvages. Local 10-30% blebby py in vein and 1-2% disseminated py in selvages.			
								Py	20	BL
								Py	2	DI
607.93	608.19	VN	37	88	NUL	1	Continuous planar 24cm wide quartz-py-cpy-sp vein. Sulphides are banded in a 12cm section of the vein. Uphole margin is a quartz breccia with a bt and clay matrix. Downhole margin is gouged and chloritic/clayey. 8cm selvages have strong clay alteration. First uphole band is 3cm and contains 70% blebby to massive py, 15% interstitial sp and 15% blebby cpy. Middle band is 3.5cm and is 75% massive sp with a 0.5cm band of massive pyrite. The downhole band is 5.5cm containing 85% blebby/massive py, 10% interstitial sp and 5% blebby cpy, 2-3mm vugs are present in this band.			
								Py	80	MA
								Cp	10	BL
								Sp	10	BN

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
608.05	608.10	VN	37	60	NUL	2	2 quartz / sulphide veins that are white to light grey in color with blebby pyrite occurring in the vein as well as disseminated inbetween the two.			
								Py	1	BL
609.19	609.31	VN	37	80	NUL	1	Continuous planar qtz-bt-py vein with crosscutting cb stringers. Stock work cb stringers in wall rock proximal to uphole contact. Downhole contact is brecciated with quartz clasts and cb matrix.			
								Py	0.1	DI
614.84	615.09	VN	37	75	NUL	1	Continuous planar 25cm wide brecciated qtz-cb vein with 2-4mm bt-py stringers. Breccia is healed by a bt matrix. Irregular and discontinuous cb stringers crosscut vein and all other phases.			
								Py	2	DI
615.17	615.34	VN	37	75	NUL	1	Continous planar 17cm qtz-bt-py-cpy-sp vein. Massive Py 40%, blebby cpy 15%, banded/massive sp 15%. Vein is 70% sulphides, 20% qtz and 10% bt.			
								Py	60	MA
								Cp	15	BL
								Sp	15	BN
615.44	615.51	VN	37	70	NUL	1	Continuous planar 6cm qtz-bt-py vein. Py 55% blebby and disseminated with biotite. Wall rock is silicified proximal to uphole contact, wall rock proximal to downhole contact has moderate to weak clay alteration.			
619.50	619.51	VT	37	60	NUL	1	small qtz py stringer			
								Py	20	---
621.25	621.28	VT	37	80	NUL	1	dark grey quartz and carbonate veinlet with brecciated strained texture, very trace py			
								Py	1	---
624.45	624.45	VT	37	20	NUL	1	low angle to core axis carbonate veinlet with disseminate blebs/fragments of silver sulphide mineral, Gal? minor Py occuring in vein halo			
								Un	2	---
								Py	2	---
625.20	625.22	SH	81	25	NUL	1	sheared clay-y sheared interval, sommewhat competent, gravelly and strained			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
629.80	630.20	FR	5	25	NUL	4	set of small low angle to core axis fractues with chlorite infill and occasional bright pyrite			
								Py	3	---
631.20	631.40	VT	37	80	NUL	2	quartz carbonnate veinlets with minor py, slightly sheared anfd folliated texture, 4mm and 5mm wide. Minor Py.			
								Py	2	---
632.40	632.89	VT	37	20	NUL	3	low angle to core axis sheared veinlets, quartz carbonate with minor py. Carboante light cream coloured.			
								Py	1	---
636.00	636.04	VT	37	75	NUL	1	silica flooding and alteration in narrow halo around small silica vienlet/breccia. Minor disseminated py and grey quarts, possibly containing light grey metalic sulphide mineral (Gal? Ja? Stib?)			
								Py	1	---
								Un	0.1	---
636.30	636.35	VT	37	68	NUL	3	small >3mm veinelts in close proximity with grey quartz, possibly with trace grey metalic sulphide mineral, minor to trace Py			
								Py	1	---
636.50	636.70	FT	42	-	NUL	1	fractured faulted interval, strained and rubbly			
637.00	637.02	VT	37	70	NUL	1	cream coloured carboante veinlet			
638.80	638.82	VT	37	65	NUL	1	white quarts, minor carbonate, sphal, py and minor gal. veinlet 6mm wide			
								Sp	8	---
								Py	4	---
								Gn	2	---
639.05	639.07	VT	37	40	NUL	1	5mm wide veinlet, dominantly Cpy in light grey quartz. Cpy is rimmed by dark grey mineral, unknown. Minor py occurring in pebbly clustered blebs			
								Py	2	---
								Cp	15	---
639.80	639.86	VT	37	80	NUL	2	silica flooded veinlets of light grey quarts in GRD minor white and cream coloured carbonate occuring in bands, vnhos py ~5% and minor Gal and sphal occuring in association with the carbonate			
								Py	3	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	1	---
								Sp	1	---
641.15	641.17	VT	37	60	NUL	1	translucent white grey quartz and light cream white coloured carbonate with 2% py rimmed by darker grey quartz			
								Py	2	---
643.20	643.00	VT	37	25	NUL	1	carbonate veinlet with stringers of chlorite and minor py			
								Py	1	---
644.10	644.20	VT	37	80	NUL	4	>3mm carbonate veinlets with trace py			
								Py	0.5	---
645.20	645.30	BX	34	55	NUL	1	carboante breccia in dyke, white cream coloured carboante. Some open cavities			
646.30	647.10	VT	37	78	NUL	3	small qtz carboante veinlets, quartz less abundant than carbonate, minor py			
								Py	1	---
649.30	649.50	BX	34	75	NUL	1	brecciate interval, carboante infill. Small band of sulphide minerals at lower contact. Sphal and py, trace gal			
								Gn	1	---
								Py	2	---
								Sp	1	---
649.45	650.15	BX	34	-	NUL	1	breccia with light grey chalcedonic infill, no mineralization observed			
650.50	650.55	VT	37	80	NUL	1	small veinelts >1cm with qtz carbonate py			
								Py	5	---
651.05	651.75	DY	37	40	NUL	1	QFP dyke within a dyke			
652.05	652.06	VT	37	65	NUL	1	small qtz carb veinlet with minor py			
								Py	6	---
652.06	652.30	BX	34	-	NUL	1	breccia with open cavities and carboante infill			
655.30	655.33	VT	37	40	NUL	1	qtz veinlet with minor white carboante and py on vein walls			
								Py	1	---
655.45	655.46	VT	37	38	NUL	1	small fracture/veinlet with unidentified dark mineral lining edges and thin carboante infill			
658.40	658.50	VT	37	60	NUL	2	qtz carb veinlets, light cream white carbonate, with minor py gal and sphal, vein walls irregular.			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Gn	2	---
								Sp	2	---
								Py	2	---
660.40	660.55	FT	42	--	NUL	1	strained interval, crumbly			
663.40	669.40	DY	37	60	NUL	1	dyke, see general lith, lower contact at 40 deg			
664.40	664.41	DY	37	70	NUL	1	small red hematite stained fine grained siliceous or aplite dyke			
667.05	667.07	VT	37	70	NUL	1	carbonate veinlet			
669.60	669.90	VT	37	68	NUL	4	small qtz carboante veinlets with py and minor sphal and gal			
								Py	2	---
								Sp	1	---
								Gn	1	---
676.35	677.35	VT	37	70	NUL	3	small qtz veins with cream coloured carbonate and trace py			
								Py	1	---
678.18	678.60	BX	34	-	NUL	1	Zone of quartz breccia with trace blebby pyrite and sphalerite.			
								Py	0.1	BL
								Sp	0.1	BL
682.07	687.09	VN	37	60	NUL	1	Quartz / sulphide vein that is light grey and white. The quartz is occurring in separate bands. The light grey band has blebby pyrite.			
								Py	1.5	BL
683.18	683.20	ST		80	NUL	2	Two carbonate / pyrite stringers with blebby pyrite.			
								Py	0.3	BL
683.28	683.33	VN	37	40	NUL	1	Quartz / sulphide vein that is white to light grey with blebby coarse grained pyrite.			
								Py	0.5	BL
683.91	683.93	VN	37	50	NUL	1	Quartz / sulphide vein that is medium to dark grey with white along the vein selvage (at the lower contact). In this vein there is blebby pyrite.			
								Py	3	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
684.20	684.40	VN	37	-	NUL	3	3 quartz / sulphide veins that range in size from 1 to 6 cm wide. Quartz is white to light grey in coloration. There is blebby pyrite occurring in all 3 of the veins and in the last vein there is blebby sphalerite.			
								Py	1.5	BL
								Sp	0.1	BL
684.63	685.32	DY	37	70	NUL	1	QFP dyke.			
684.75	685.12	VN	37	50	NUL	1	Quartz vein that is brecciated - dark grey in color with white quartz stringers to veinlets.			
685.53	685.77	VT	37	-	NUL	3	3 quartz / sulphide veinlets that are white to light grey quartz with blebby pyrite predominantly but also minor sphalerite.			
								Sp	0.1	BL
								Py	2	BL
686.25	686.26	VT	37	45	NUL	1	1 cm wide qurtz / sulphide veinlet with blebby galena, sphalerite as well as pyrite.			
								Py	0.1	BL
								Sp	0.5	BL
								Gn	1	BL
686.47	686.79	VN	37	60	NUL	2	2 quartz / pyrite veins that are white to light grey with blebby pyrite.			
								Py	3	BL
687.17	687.29	VN	37	25	NUL	1	Quartz / sulphide vein with white quartz as well as blebby pyrite and sphalerite.			
								Py	0.3	BL
								Sp	0.5	BL
687.83	688.08	VN	37	-	NUL	4	4 quartz / sulphide veins that are white to light grey to dark grey quartz. In the veins there are blebby sulphides - pyrite as well as minor sphalerite.			
								Py	3	BL
								Sp	0.1	BL
689.64	689.76	VT	37	90	NUL	4	4 quartz / sulphide veinlets with local mineralization. There are two veinlets without mineralization but the other two have blebby pyrite. The one has blebby sphalerite as well.			
								Py	0.5	BL
								Sp	0.1	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
692.44	692.57	VT	37	70	NUL	2	2 Quartz / pyrite veinlet with light grey quartz with blebby to massive pyrite. In the first one there is also some minor sphalerite.			
								Sp	0.1	BL
								Py	1	BL
693.74	693.74	ST		80	NUL	1	Quartz / pyrite stinger with blebby pyrite.			
								Py	0.3	BL
715.78	715.83	VN	37	80	NUL	1	Quartz sulphide vein with white to light grey quartz with dark grey near black at the lower contact. There is blebby pyrite.			
								Py	0.5	BL
716.65	716.72	VT	37	48	NUL	1	small 3cm true width qtz-sulphide-feldspar veinlet at 48 deg tca. Quartz semi-translucent, light grey, 12% py with minor medium brown sphal and trace Gal, minor dark grey fine mineral around py, possibly sulphosalt. Minor feldspar in vein, light cream white, occuring in central portion of vein. Alteration halo extending ~20 cm to either side. Light to medium green-cream clay.			
								Sp	2	---
								Gn	1	---
								Py	12	---
719.40	719.45	VT	37	25	NUL	1	small 2mm true width veinlet with greenish chalcedony infill, minor carbonate, whitish cream and trace py			
								Py	2	---
720.76	720.85	VT	37	80	NUL	2	small 1.5-2mm true width dark grey fine grained biotite/ chlorite veinlet with minor disseminated pyrite			
								Py	0.5	---
724.11	724.24	VT	37	30	NUL	1	small 2mm true width dark grey- black fine grained biotite with minor chlorite alteration veinlet in potassically altered granodiorite			
728.29	728.32	VT	37	70	NUL	1	3-4mm wide veinlet of quartz + minor carbonate. Veinlet is heavily chloritized with hematite and pyrite. Fracture surface is hematite stained with blebby pyrite within. Small carbonate stringers visible in fractured rubble on either side of structure			
								He	8	---
								Py	5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
730.47	730.75	VT	37	50	NUL	5	3-5mm true width quartz + carbonate veinlets with blebby pyrite. Quartz veinlet is medium grey and milky with pyrite blebs at junctions with thinner carbonate veinlets/ stringers. Slight alteration halo of darker grey silicified chalcedony on either side of quartz vein. Also have 4mm wide light grey- white carbonate veinlets with abundant blebby pyrite and chlorite within.			
								Py	6	BL
								Cl	12	---
732.92	733.00	VT	37	-	NUL	21	light grey- white carbonate veinlets 2-5mm true width between 30- 60 degrees TCA			
733.65	733.74	VN	37	7	NUL	1	light grey- white carbonate + minor quartz vein with minor blebby pyrite and slight hematite staining on vein edge			
								He	1	---
								Py	3	BL
733.79	733.85	VN	37	80	NUL	1	light grey quartz + carbonate vein with abundant pyrite throughout. Vein is brecciated with carbonate cutting through dark grey fine grained chalcedony and pyrite blebs. Some minor hematite on fracture edge and in chalcedony. Carbonate + quartz appears almost banded in areas. Alteration halo of very fine grained silicified dyke on footwall side while hanging wall side is brecciated 'silicified mottled mix'.			
								He	0.5	---
								Py	35	BL
734.69	734.71	VT	37	70	NUL	1	4mm true width chlorite veinlet with blebby pyrite within hosted in clay altered granodiorite			
								Ch	60	---
								Py	28	BL
734.80	734.96	VT	37	70	NUL	3	2-3mm true width quartz+ carbonate + pyrite veinlets. Minor hematite alteration on edge of some veinlets. Dark grey chalcedony also visible in sections			
								He	0.5	---
								Py	5	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
736.29	736.31	VT	37	70	NUL	1	small quartz + chlorite veinlet with blebby pyrite infill ~25%. Minor pyrite stringers cross cut main veinlet as well ~0.5mm true width. Dark grey chalcedony on edges of veinlet.			
								Py	25	BL
737.71	737.77	VT	37	55	NUL	1	4mm true width quartz + chlorite + pyrite + magnetite veinlet with minor epidote alteration			
								Cl	15	---
								Mg	3	---
								Py	70	---
738.27	738.29	VT	37	70	NUL	1	3mm true width milky white quartz veinlet with dark grey - dark greenish grey chalcedony on edges			
739.14	739.24	VT	37	70	NUL	3	3x 1mm to 1cm true width quartz + chlorite veinlets with disseminated pyrite. One veinlet has thin 1mm wide veinlet of fine grained pyrite on outer edge as well. Quartz is milky to medium grey with minor carbonate			
								Py	8	---
740.06	740.15	VB	37	60	NUL	1	brecciated vein of quartz + carbonate with minor chalcedony and fine grained disseminated pyrite. True width of main vein is ~2cm with little veinlets branching off. Quartz is milky to darkish grey chalcedony. Carbonate is light grey with slight pinkish tinge. Pyrite is ~3%			
								Py	3	BL
740.57	740.65	VT	37	80	NUL	2	1-2mm true width quartz + pyrite veinlets			
								Py	35	BL
740.96	741.27	VB	37	15	NUL	1	carbonate with minor chalcedony brecciated vein. Minor pyrite disseminated within and occuring as blebs in siliceous medium grey-green clasts. Breccia zone is ~1.4 to 2cm true width with small 1.2cm vein of pure carbonate on edge. Some chlorite alteration within giving slight blueish tinge in places			
								Py	6	BL
743.99	744.02	VN	37	70	NUL	1	small ~1.3cm true width vein of milky white quartz, carbonate, dark grey chalcedony and disseminated pyrite			
								Py	8	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
746.23	746.32	VT	37	-	NUL	2	2 small 2-6mm true width white quartz + dark grey chalcedony veinlets at 60-70 degrees TCA. Blebby pyrite visible ~10% in clay- chlorite altered granodiorite host rock.			
								Py	10	BL
746.97	747.05	VN	37	85	NUL	1	banded 2cm true width white- milky quartz + carbonate vein with fine grained dark grey chalcedony on edges and blebby pyrite throughout.			
								Py	3	BL
747.11	747.18	FT	42	85	NUL	2	2 small 0.7- 1.4cm true width fracture zones with light grey clay gouge on fracture surfaces in light greenish grey clay + chlorite altered granodiorite. Minor blebby pyrite in surrounding granodiorite as well as clasts of very fine grained siliceous/ chalcedonic medium grey quartz			
747.31	747.35	VN	37	75	NUL	2	2 stages of veining with earlier light grey- white carbonate + quartz vein overprinted by 1.1cm true width dark grey chalcedonic banded quartz vein. Trace pyrite in section but barely visible			
								Py	0.05	---
747.56	747.60	VT	37	85	NUL	1	6mm true width light grey - white carbonate + quartz vein with dark grey chalcedonic quartz and minor blebby pyrite			
								Ch	11	BA
								Py	4	BL
747.93	748.08	VT	37	25	NUL	1	3-4mm true width medium- dark greenish grey chalceonic quartz + chlorite veinlet. Hematite staining on edges. No visible pyrite in vein but is disseminated throughout host clay altered granodiorite on either side of veinlet			
								He	9	---
								Cl	41	---
748.43	748.74	VT	37	-	NUL	2	2 small 1mm true width quartz+ pyrite veinlets at 40 and 30 degrees TCA. One veinlet is offset 5mm by light grey quartz + minor carbonate veinlet. Trace hematite around some pyrite grains			
								Py	81	BL

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
749.25	749.27	VT	37	60	NUL	1	3mm true width veinlet of light brownish grey chalcedonic quartz with thin 0.5mm darker grey chalcedonic quartz on hanging wall side of veinlet. Cross cuts thin stringer of blebby pyrite in host clay + chlorite altered granodiorite			
								Ch	95	---
749.28	749.31	VT	37	75	NUL	1	7mm true width carbonate + minor quartz veinlet with blebby pyrite and trace galena. Mm size silvery sericite hexagons around vein in host granodiorite, some slightly altered to buff cream			
								Py	4	BL
								Se	0.5	---
749.44	749.47	VT	37	75	NUL	2	3mm true width dark grey chalcedonic quartz veinlets with coarse grained pyrite in and around edges. Pyrite appears to be a late stage post veining addition. Veinlet is dark grey in middle with lighter grey siliceous alteration halo around it up to 2mm wide.			
								Py	3	---
749.48	749.53	VN	37	80	NUL	2	2 veins of milky white quartz 7mm and 2cm true width. Small carbonate bleb in small quartz veinlet with minor sphalerite and trace galena as well as pyrite. Silvery sericite visible around vein edges as well. Quartz is somewhat banded and crystalline			
								Gn	0.01	---
								Sp	0.12	BL
								Py	2	BL
750.86	750.96	VN	37	25	NUL	1	1 cm true width biotite + chlorite + magnetite vein. Minor epidote alteration in one section. Pyrite visible on fracture surface of host granodiorite but not within vein.			
								Mg	18	---
751.43	751.63	FR	5	25	NUL	2	2 fractures 4cm apart with carbonate + chlorite + clay with minor pyrite infill. The one main fracture has a 1cm wide black alteration halo on either side that is strongly magnetic (magnetite + chlorite). Host is potassically altered granodiorite			
754.38	755.49	ST		-	NUL	8	small 0.5-1mm true width white carbonate stringers between 50-70 degrees TCA			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
761.15	761.84	VB	37	70	NUL	3	vuggy brecciated vein zone of quartz + carbonate. Blebby pyrite and sphalerite visible in section as well as trace galena and arsenopyrite. Vugs have euhedral fine grains of quartz. Chalcedonic darker grey quartz occurs in small stringers in section with small blebs of creamy carbonate. Pyrite occurs in vein areas as well as disseminated throughout the host granodiorite			
								As	0.5	---
								Gn	1	---
								Sp	5	BL
								Py	28	BL
761.83	761.87	VN	37	85	NUL	1	4.2cm true width quartz + minor carbonate + coarse grained pyrite. Pyrite comprises ~48% of vein.			
								Py	48	BL
762.54	762.70	VN	37	80	NUL	3	1.8- 4.2cm true width quartz + carbonate + pyrite veins. Pyrite is somewhat tarnished in places and coarse grained with euhedral edges and visible striations			
								Py	55	BL
767.18	767.20	VT	37	85	NUL	1	5 mm light grey- white banded quartz vein in clay altered granodiorite			
769.46	769.75	ST		40	NUL	3	1mm true width pyrite + quartz with some trace hematite staining			
								Py	72	BL
770.02	770.06	VT	37	55	NUL	1	3mm true width buff peach cream quartz veinlet overprinted by later stage light to dark grey chalcedonic quartz. Minor hematite alteration and pyrite in the light grey siliceous alteration halo surrounding veinlet and in clay altered granodiorite			
								Py	0.5	---
								He	0.02	---
770.07	770.22	VN	37	30	NUL	1	2-8mm true width dark to medium grey chalcedonic quartz vein. Lighter grey is more brecciated and appears to be a later stage veining that cuts the dark siliceous chalcedony. Minor disseminated pyrite in light grey quartz and around the contact edges with the darker earlier chalcedony. Host rock is very clay altered granodiorite			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
771.00	771.13	VT	37	25	NUL	3	1-2mm true width quartz + pyrite veinlets			
								Py	60	BL
771.56	771.87	VT	37	30	NUL	2	2 0.5mm to 3 mm true width grey chalcedonic quartz + pyrite + possible black mineral (biotite? Magnetite? Trace sphalerite? Very small and hard to make out crystal structure). Some hematite alteration in spots. Vein is mostly pyrite (65%) and quartz.			
								Py	65	BL
								He	1	---
771.92	772.32	VT	37	30	NUL	3	3 small 1.5-3mm true width pyrite + chlorite/ biotite veins (? Or dark grey chalcedonic quartz?). Interstitial hematite in with pyrite grains.			
								Cl	18	---
								Py	72	BL
								He	2	IN
774.76	775.04	VT	37	50	NUL	2	2 small 5mm true width carbonate + quartz + sulphide veinlets. Mostly pyrite with abundant galena and sphalerite. About 73% of veinlet is sulphide, the rest is light buff peach to beige carbonate + quartz with possible alteration halo of light greenish cream clay alteration in surrounding granodiorite.			
								Py	18	BL
								Sp	9	BL
								Gn	35	BL
774.88	775.11	VT	37	70	NUL	3	1-1.5cm true width medium grey chalcedony veinlets with disseminated pyrite within. Cross cut by smaller quartz + carbonate light grey veinlets as well. Pyrite occurs along outer edge of darker grey chalcedony as well as being disseminated through the veinlet			
								Py	24	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
775.40	775.83	BX	34	-	NUL	5	5 small veinlets in a breccia zone at 70 degrees TCA approximately 1.5-1.8cm true width. Veinlets are composed of dark grey chalcedonic quartz, minor carbonate and euhedral coarse grains of barite in the veinlet at 775.80m. Chalcedonic quartz veining appears to be earlier stage and cross cut by later staged carbonate/ barite veinlets. Very minor pyrite in and around veinlets. Small fracture at 775.71m with fine grained almost carbonaceous black material on fracture surface/ as slickenlines. Possible trace sphalerite in section as well.			
								Py	3	BL
776.67	776.73	VT	37	65	NUL	1	4mm true width quartz + minor carbonate + sulphides veinlet with 1.5cm wide alteration halo on either side of medium greenish grey siliceous granodiorite. Host rock is very clay altered granodiorite. Veinlet has some pyrite, sphalerite and trace galena. Sulphides make up about 45% of vein.			
								Sp	21	BL
								Py	20	BL
								Gn	3	---
778.05	778.09	DY	37	30	NUL	1	small light grey aplite / rhyolite dyke, similr to the larger unit at bottom of hole			
779.03	779.07	DY	37	70	NUL	1	small light grey aplite / rhyolite dyke, similr to the larger unit at bottom of hole, bleb of py on contact with GRD			
								Py	2	---
779.64	779.77	VT	37	70	NUL	1	interval of brecciated veinlets and qtz flooding, light grey with minor py and trace sphal			
								Py	2	---
								Sp	0.5	---
783.53	783.61	VN	37	65	NUL	1	crackled chaotic veinlet of Qtz-py cut by carbonate veinlets. Trace Cpy			
								Py	10	---
								Cp	0.5	---
785.00	785.02	VT	37	35	NUL	1	small 3mm true width qtz py carb veinlet			
								Py	3	---
785.30	785.32	VT	37	30	NUL	1	small 3mm true width qtz carb py veinlet			
								Py	2	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
786.18	786.20	VT	37	72	NUL	1	9mm true width carb veinlet with trace gal sphal and py			
								Gn	1	---
								Sp	1	---
								Py	1	---
787.40	787.80	VT	37	43	NUL	7	swarm of small qtz carb py veinlets containing py and sphal in light grey quartz, vein at bottom of interval has what looks to be barite in chalcedonic vein			
								Sp	1.5	---
								Ba	0.5	---
								Py	3	---
788.40	788.50	VN	37	80	NUL	2	two smaller py-qtz veins at contact with dyke, crackled sulphides, only py observed			
								Py	45	---
788.50	813.69	DY	37	60	NUL	1	see general lith			
789.67	789.80	FT	42	50	NUL	1	small faulted intervsl with 1 cm mineralized veinlet in middle of interval, also at 50 deg tca			
								Py	3	---
792.25	792.32	VN	37	70	NUL	1	vein in dyke, qtz and py, light grey qtz, only py observed			
								Py	55	---
827.95	827.96	VT	37	75	NUL	1	small sulphide dominante veinlet with qtz, Py, sphal and gal, 6mm true width. Chl sil alt halo			
								Sp	50	---
								Py	30	---
								Gn	5	---
830.17	830.19	VT	37	30	NUL	1	small py veinlet with grey quartz			
								Py	20	---
830.25	830.40	VT	37	20	NUL	1	py carboante veinlet at 20mdeg to core axis, 6mm true width, 80% py in veinlet, 10% py over interval			
								Py	10	---
830.70	830.71	VT	37	70	NUL	1	small py veinelt with minor sphal and qtz, minor carb on hanging wall of veinlet			
								Py	60	---
								Sp	1	---
834.00	834.01	VT	37	50	NUL	1	small 2mm true width py and grey qtz veinlet			
								Py	5	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
834.40	834.41	VT	37	30	NUL	1	small 2mm true width py carboante veinlet			
								Py	5	---
834.80	834.81	VT	37	70	NUL	1	small 1mm veinlet of qtz py qith sphal			
								Py	3	---
								Sp	1	---
835.10	835.15	VT	37	25	NUL	1	small 2mm true wdth veinlet with qtz carb py			
								Py	3	---
837.50	838.00	VT	37	86	NUL	2	two 1.5cm veinelts with py qtz carb			
								Py	2	---
839.00	839.50	VT	37	-	NUL	3	three small qtz py veinelts at 80, 70, and 30 deg tca			
								Py	2	---
840.90	840.91	VT	37	80	NUL	1	small qtz py veinelt with chlorite alteration halo			
								Py	10	---
843.50	843.52	VT	37	65	NUL	1	carboante veinlet, white, with minor py sheared on edges			
								Py	1	---
847.40	847.41	VT	37	50	NUL	1	carboante veinlet, trace py			
								Py	1	---
848.15	848.16	VT	37	70	NUL	1	qtz carb veinlet, trace py			
								Py	0.5	---
851.55	851.60	VT	37	30	NUL	1	small 6mm true width veinelt with carb and py, possibly sphal			
								Py	10	---
								Sp	1	---
856.00	856.80	VT	37	70	NUL	3	small carboante qtz veinelts			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384622	6888314	1260	199.95

ZONE: Exploration

SECTION:

HOLE: KL -20-488

CLAIM: YA86343

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 3.05m, Out

Drilling Dates: Oct 04 - Oct 10, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.5	1.5	CAS
1.5	4.2	2.7	OVB
4.2	5.9	1.7	GRD
5.9	7.9	2	GRD
7.9	8.9	1	FLR
8.9	12.19	3.29	FLR
12.19	16.55	4.36	GRD
16.55	19.5	2.95	GRD
19.5	48.05	28.55	GRD
48.05	62.55	14.5	POR
62.55	67.9	5.35	QFP
67.9	74.37	6.47	GRD
74.37	75	0.63	GRD
75	75.1	0.1	QFP
75.1	75.4	0.3	GRD
75.4	76.52	1.12	GRD

SAMPLES	
Numbers:	B700768 to B700772, C304001 to C304065, W598807 to W598900
Total:	164
Batch:	036, 059, 061, 064, 066, 067
Certificates:	WH20234016, WH20234027, WH20234055, WH20234067, WH20238418, WH20238431

COMMENTS

Etzel exploration hole #4.
Handheld GPS accuarcy of 1.5m

76.52	76.9	0.38	GRD
76.9	80.1	3.2	QFP
80.1	82.3	2.2	GRD
82.3	83.62	1.32	GRD
83.62	84.7	1.08	GRD
84.7	84.8	0.1	QFP
84.8	85.05	0.25	GRD
85.05	87.78	2.73	GRD
87.78	89.41	1.63	QFP
89.41	97	7.59	GRD
97	124.99	27.99	GRD
124.99	127.4	2.41	QFP
127.4	127.72	0.32	VEN
127.72	134	6.28	GRD
134	135.1	1.1	QFP
135.1	135.6	0.5	GRD
135.6	136.5	0.9	QFP
136.5	142.4	5.9	GRD
142.4	155.3	12.9	QFP
155.3	167.55	12.25	GRD
167.55	169.4	1.85	GRD
169.4	171	1.6	QFP
171	199.95	28.95	GRD

Box Log

KL -20-488

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	1.5	5.2
2	5.2	8.1
3	8.1	11.48
4	11.48	14.95
5	14.95	18
6	18	21.05
7	21.05	23.89
8	23.89	26.98
9	26.98	29.85
10	29.85	32.8
11	32.8	35.75
12	35.75	38.66
13	38.66	41.4
14	41.4	44.64
15	44.64	48.43
16	48.43	52.12
17	52.12	55.47
18	55.47	58.25
19	58.25	61.8
20	61.8	65.25
21	65.25	68.5
22	68.5	71.1
23	71.1	74.14
24	74.14	77.42
25	77.42	81.5
26	81.5	85.25
27	85.25	88.7
28	88.7	92.96
29	92.96	98.53
30	98.53	101.19
31	101.19	109.75
32	109.75	113.73
33	113.73	117.35
34	117.35	121.07
35	121.07	124.97
36	124.97	128.76
37	128.76	132.45
38	132.45	135.55
39	135.55	139.38
40	139.38	142.37
41	142.37	146.22
42	146.22	149.9
43	149.9	153.12
44	153.12	156.77
45	156.77	160.35
46	160.35	163.85
47	163.85	167.54
48	167.54	170.99
49	170.99	174.05
50	174.05	177.18
51	177.18	181.22
52	181.22	185.15
53	185.15	188.72
54	188.72	192.76
55	192.76	196.65
56	196.65	199.95

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.50	1.50	CAS	--	casing							
1.50	4.20	2.70	OVB	--	overburden							
4.20	5.90	1.70	GRD	MG	medium grained GRD. Pervasively clay altered. Fractured and broken. Oxidation on fracture surfaces. Light grey in colour. Common small stringers containing Py. Weak propyllitic alteration, seemingly overprinted by later clay alteration.							
						MD	GY	FR	CLY	4I	Py	1
						LT	GY		CHL	2I		
5.90	7.90	2.00	GRD	--	sheared and faulted GRD, rubbly gouge, totally broken, very minor conpotent clasts. Disseminated Py throughout. Light green grey colour, chlorite alteration? Green colour increasing with depth in interval, grading from light grey to med green at bottom. Shear with dark grey gouge at 15 deg tca near bottom of interval, minor disseminated Py. Bottom contact is dark grey gouge/clay, with disseminated py, ~2cm thick.							
						MD	GN	RB				
						LT	GN	SH	CHL	4I		
						LT	GY	FR	CLY	4I	Py	1
								ST				
7.90	8.90	1.00	FLR	--	faulted, sheared, strained buff grey siliceous or felsic dyke. Patchy hematite staining. No visible mineralization.							
						LT	BF	ST	HEM	2I		
						LT	GY	SH	CLY	5I		
8.90	12.19	3.29	FLR	--	sheared and strongly clay altered GRD. Minor fine disseminate py.							
						MD	GY	SH				
						LT	GY	ST	CLY	5I	Py	1
12.19	16.55	4.36	GRD	--	broken and rubbly granodiorite, silica and clay alteration. Mineralized sections, where silica alteration is stronger, contianing fine grained Py, chiefly between 14.5-16.0m.							
						MD	GY	FR	SIL	4I	Py	2
						LT	GY		CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.55	19.50	2.95	GRD	--	Strained medium grained grd with darker grey bands of shear throughout. Disseminated py throughout. Feldspars totally alterred to clay.							
						LT	GY	ST	CLY	5I	Py	1
								SH				
19.50	21.90	2.40	GRD	MG	strong clay alteration							
21.90	22.70	0.80	GRD	MG	propylitic alteration and potassic alteration around small fractures and veinlets							
22.70	23.90	1.20	GRD	MG	strong clay alteration							
23.90	24.40	0.50	GRD	MG	propylitic and potassic alteration around small fractures, green grey from chlorite							
24.40	37.00	12.60	GRD	MG	Patchy moderate to strong clay alteration with weak zones of propylitic and potassic alteration. Disseminated py throughout and occuring in clumps. Locally strained and weakly sheared, resulting in localized rubbly texture							
37.00	40.00	3.00	GRD	MG	chlorite and clay altered, potassic alteration of feldspars, small py stringers cutting through, crumbly.							
40.00	42.50	2.50	GRD	MG	clay altered medium grianed GRD, weak chlorite alteration. Crumbly							
42.50	43.00	0.50	FLR	--	sheared and strained medium grianed grd, clay altered, abundant disseminated Py							
43.00	45.10	2.10	GRD	MG	Clay altered med grained GRD, cut by common small shears, pervaive clay alteration, patchy potassic alteration, controlled by shears? Maybe just offset by them?							
45.10	48.05	2.95	FLR	--	sheared granodiorite and gouge with disseminated py							
48.05	52.60	4.55	FLR	--	strained and faulted, broken, rubbly							
52.60	60.00	7.40	POR	MG	same as general lith							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
60.00	62.55	2.55	FLR	--	rubble, faulted, strained sheared dyke							
62.55	62.75	0.20	FLR	--	sheared gougy boundary between two dyke types, some powdered sulphides present							
62.75	67.30	4.55	QFP	FG	buff grey qfp dyke with smaller phenocrysts than other dyke interval above							
67.30	67.90	0.60	FLR	--	sheared gougy/rubbly boundary with dyke and surrounding rocks. Strongly clay altered. Sharp contact, abrupt colour change.							
67.90	74.37	6.47	GRD	MG	highly fractured GRD, broken rock, weak clay alteration of feldspars, white clay, pervaisve chlorite alteration of mafivc minerals, dark green grey colour. Patchy weak silica alteration. Minor stringers of Py throughout							
						MD	GY	FR	CHL	2I		
						DK	GN	ST	CHL	4I	Py	0.5
								CR	SIL	1I		
74.37	75.00	0.63	GRD	MG	intensely clay altered and strained GRD around 5cm chalcedonic qtz breccia interval, cut with bands of white carbonate, containing trace sulphides, at 74.95m, at 80 deg tca.							
						LT	GY	ST	CLY	5I	Py	0.5
								SH	SIL	2I		
75.00	75.10	0.10	QFP	FG	small fine grained dyke interval							
						LT	GY	FR	CLY	4I		
						LT	BF					
75.10	75.40	0.30	GRD	MG	intensely clay altered and strained medium grained GRD. Trace disseminated Py							
						LT	GY	ST	CLY	5I	Py	0.5
75.40	76.52	1.12	GRD	MG	weakly clay altered, broken medium grained GRD, books of biotite generally remain unaltered, but with weak sericite alteratuon around rims. Stringers of Py cutting through. Perv asive weak chlorite alteration.							
						MD	GY	FR	CLY	2I	Py	1.5
						MD	GN		SER	2I		
									CHL	3I		
76.52	76.90	0.38	GRD	MG	intensely clay altered medium grianed granodiorite, biotite altered to sericite muscovite. Broken.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						LT	GY	FR	CLY	5I	Py	1
									SER	3I		
76.90	80.10	3.20	QFP	MG	medium grey QFP dyke, light grey groundmass with white weak to moderately altered feldspars, less common phenocrysts of quartz. Broken and rubbly. Minor to trace disseminated Py throughout. Lower contact becoming faulted and gougey.							
						LT	GY	PO	CLY	3I	Py	5
								FR	SIL	2I		
80.10	82.30	2.20	GRD	MG	faulted moderately clay chlorite altered GRD							
82.30	83.62	1.32	GRD	MG	highly strained and fractured chlorite altered medium grained GRD							
						MD	GN	ST	CHL	4I	Py	0.5
						MD	GY		CLY	2I		
83.62	84.70	1.08	GRD	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.							
						LT	GY	ST	CLY	5I	Py	0.5
84.70	84.80	0.10	QFP	MG	small QFP dyke, light buff grey green colour, intensely faulted and streined, gougy. Small carbonate veinlet associated, also broken and faulted. Dyke interval sits within a larger interval of fully faulted rock.							
						LT	GY	ST	CLY	5I	Py	2
84.80	85.05	0.25	GRD	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.							
						LT	GY	ST	CLY	5I	Py	0.5
85.05	87.78	2.73	GRD	MG	Highly strained and fractured chlorite altered medium grained GRD							
						MD	GY	ST	CLY	3I		
						MD	GN	FR	CHL	4I	Py	0.5
87.78	89.41	1.63	QFP	FG	Intensely faulted and strained fine grained QFP dyke. Light buff green grey colour, intensely clay altered. Unmineralized except for upper and lower contacts, where some disseminated py is observed.							
						LT	BF	ST				
						LT	GY	FR	CLY	5I	Py	0.2
89.41	97.00	7.59	GRD	MG	highly strained and fractured chlorite altered medium grained GRD, pervasive moderate clay alteration of feldspars. Trace to minor Py along fracture surfaces							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	RB	CLY	3I	Py	0.5
						MD	GN	FR	CHL	3I		
								ST				
97.00	124.99	27.99	GRD	MG	Patchy moderate to strongly clay altered medium grained GRD. Patchy weak potassic alteration, Patchy moderate silica flooding around small quartz stringers. Broken and rubbly. Minor disseminated Py. 1cm sheared vein at 124.15m containing py and minor jamesonite, dark gouge on either side of vein							
						MD	GY					
						LT	GY	ST	CLY	4I	Py	0.5
124.99	127.40	2.41	QFP	FG	Buff grey QFP dyke, moderately clay altered, with fresher chlorite altered dyke in side, containing ~20cm of clay altered fault.							
						MD	GN	ZO	CLY	4I		
						MD	BF					
						LT	GN	FR	CHL	3I		
127.40	127.72	0.32	VEN	--	banded chalcedonic quartz and white carbonate vein with minor py and jamesonite and trace sphalerite. 40 deg tca							
						LT	CR	ZO			Py	1
											Ja	1
											Sp	0.5
127.72	134.00	6.28	GRD	MG	medium grained GRD. Moderately clay altered, weakly chlorite altered, generally broken. Disseminated Py.							
						MD	GY	ST	CLY	3I	Py	1
								FR	CHL	2I		
134.00	135.10	1.10	QFP	FG	pale buff green foliated dyke, broke and clay altered, highly fractured. Trace disseminated Py.							
						MD	GY					
						LT	BF	FR	CLY	4I	Py	0.1
						LT	GN	FL				
135.10	135.60	0.50	GRD	MG	Medium grained GRD. Fractured and broken strongly clay altered and silica flooded, patchy weak hematite alteration.							
						MD	GY	RB	CLY	5I	Py	1
						LT	GY	FR	HEM	2I		
						LT	PK		SIL	3I		
135.60	136.50	0.90	QFP	FG	fine grained dyke, silica and clay altered, moderate hematite staining. Disseminated Py.							
						MD	GY	RB	CLY	3I	Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	RD		HEM	2I		
						LT	GY	FR	SIL	4I		
136.50	142.40	5.90	GRD	MG	Strongly silica altered medium grained GRD. Common small patches of epidote alteration.							
						MD	GY	FL	SIL	5I	Py	1
						MD	GN	CR	CLY	3I		
									CHL	2I		
									EP	2I		
142.40	147.00	4.60	SIL	FG	fine grained siliceous dyke, no phenocrysts, or if present, obliderated by silica alteration.							
147.00	153.10	6.10	QFP	FG	fine grained matrix, common rounded feldspar phenocrysts.							
153.10	155.30	2.20	SIL	FG	fine grained siliceous dyke, no phenocrysts, or if present, obliderated by silica alteration.							
155.30	160.20	4.90	GRD	MG	Medium grained GRD. Patchy strong chlorite alteration. Strong clay alteration envelopes around veinlets							
						MD	GY		CLY	4I	Py	1
						MD	GN		CHL	3I		
						LT	GY		SIL	3I		
									POT	1I		
160.20	160.40	0.20	VEN	--	20cm brecciated qtz carboante vein with py.							
160.40	163.90	3.50	GRD	MG	Medium grained GRD. Patchy strong chlorite alteration.							
163.90	167.55	3.65	GRD	MG	intense clay alteration. Small patch of silica flooding aorund small qtz-py vein at 164.5m.							
167.55	169.40	1.85	GRD	--	faulted altered med grianed GRD with 4% Py over interval. Brecciated and sheared, light pink carbonate veilets, broken, at top of interval. Shears at 35 deg tca							
						MD	GY	FR	CLY	4I	Py	4
						LT	GY	ST				
169.40	171.00	1.60	QFP	FG	fine grained grey-buff QFP dyke with minor disseminated Py.							
						LT	GY	PO	CLY	3I	Py	1
						LT	BF					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
171.00	171.80	0.80	GRD	MG	mod clay alt, diss py, fractured							
171.80	173.00	1.20	GRD	MG	strained chlorite altered mg grd							
173.00	174.05	1.05	GRD	MG	Sheared and strained stronly clay altered medium grained GRD							
174.05	174.90	0.85	GRD	MG	moderately clay altered , cut by small carbonate veinlets							
174.90	175.70	0.80	GRD	MG	strained chlorite altered grd							
175.70	175.80	0.10	VEN	--	pink carbonate vein at 25 deg tca							
175.80	178.50	2.70	GRD	MG	intensely sheared and strained and clay altered medium grained GRD							
178.50	178.90	0.40	QFP	FG	clasts of fine grained felsic volcaninc dyke in intensely clay altered and strained/sheared medium grained GRD							
178.90	182.40	3.50	GRD	MG	intensely sheared and strained and clay altered, moderately chlorite altered medium grained GRD.							
182.40	182.60	0.20	VEN	--	clasts of quartz vein in sheared clay altered GRD							
182.60	185.30	2.70	GRD	MG	intensely sheared and strained and clay altered, moderately chlorite altered medium grained GRD.							
185.30	188.00	2.70	GRD	MG	broken moderately clay altered, chlorite altered, medium grained GRD							
188.00	190.00	2.00	GRD	MG	intensely sheared and strained and clay-chlorite altered, moderately chlorite altered medium grained GRD.							
190.00	199.95	9.95	GRD	MG	intensely sheared and strained and clay altered medium grained GRD. Some clasts of minerlized vein fragments in shears, 1-2cm qtz py veins at 195.5m and 197.4m, both at 45 deg tca, qtz smokey in colour.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Py	2

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	1.50	1.50	CAS	OVB	--	casing
1.50	4.20	2.70	OVB	OVB	--	overburden
4.20	5.90	1.70	GRD	GRDA	MG	medium grained GRD. Pervasively clay altered. Fractured and broken. Oxidation on fracture surfaces. Light grey in colour. Common small stringers containing Py. Weak propyllitic alteration, seemingly overprinted by later clay alteration.
5.90	7.90	2.00	GRD	GRDF	--	sheared and faulted GRD, rubbly gouge, totally broken, very minor conpotent clasts. Disseminated Py throughout. Light green grey colour, chlorite alteration? Green colour increasing with depth in interval, grading from light grey to med green at bottom. Shear with dark grey gouge at 15 deg tca near bottom of interval, minor disseminated Py. Bottom contact is dark grey gouge/clay, with disseminated py, ~2cm thick.
7.90	8.90	1.00	FLR	DYK	--	faulted, sheared, strained buff grey siliceous or felsic dyke. Patchy hematite staining. No visible mineralization.
8.90	12.19	3.29	FLR	GRDF	--	sheared and strongly clay altered GRD. Minor fine disseminate py.
12.19	16.55	4.36	GRD	GRDA	--	broken and rubbly granodiorite, silica and clay alteration. Mineralized sections, where silica alteration is stronger, contianing fine grained Py, chiefly between 14.5-16.0m.
16.55	19.50	2.95	GRD	GRDF	--	Strained medium grained grd with darker grey bands of shear throughout. Disseminated py throughout. Feldspars totally alterred to clay.
19.50	21.90	2.40	GRD	GRDA	MG	strong clay alteration
21.90	22.70	0.80	GRD	GRDA	MG	propylitic alteration and potassic alteration around small fractures and veinlets
22.70	23.90	1.20	GRD	GRDA	MG	strong clay alteration
23.90	24.40	0.50	GRD	GRDA	MG	propylitic and potassic alteration around small fractures, green grey from chlorite
24.40	37.00	12.60	GRD	GRDA	MG	Patchy moderate to strong clay alteration with weak zones of propylitic and potassic alteration. Disseminated py throughout and occuring in clumps. Locally strained and weakly sheared, resulting in localized rubbly texture
37.00	40.00	3.00	GRD	GRDA	MG	chlorite and clay altered, potassic alteration of feldspars, small py stringers cutting through, crumbly.
40.00	42.50	2.50	GRD	GRDA	MG	clay altered medium grianed GRD, weak chlorite alteration. Crumbly
42.50	43.00	0.50	FLR	GRDA	--	sheared and strained medium grianed grd, clay altered, abundant disseminated Py
43.00	45.10	2.10	GRD	GRDA	MG	Clay altered med grained GRD, cut by common small shears, pervaive clay alteration, patchy potassic alteration, controlled by shears? Maybe just offset by them?

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
45.10	48.05	2.95	FLR	GRDA	--	sheared granodiorite and gouge with disseminated py
48.05	52.60	4.55	FLR	DYK	--	strained and faulted, broken, rubbly
52.60	60.00	7.40	POR	DYK	MG	same as general lith
60.00	62.55	2.55	FLR	DYK	--	rubble, faulted, strained sheared dyke
62.55	62.75	0.20	FLR	DYK	--	sheared gougy boundary between two dyke types, some powdered sulphides present
62.75	67.30	4.55	QFP	DYK	FG	buff grey qfp dyke with smaller phenocrysts than other dyke interval above
67.30	67.90	0.60	FLR	DYK	--	sheared gougy/rubbly boundary with dyke and surrounding rocks. Strongly clay altered. Sharp contact, abrupt colour change.
67.90	74.37	6.47	GRD	GRDF	MG	highly fractured GRD, broken rock, weak clay alteration of feldspars, white clay, pervaisve chlorite alteration of mafivc minerals, dark green grey colour. Patchy weak silica alteration. Minor stringers of Py throughout
74.37	75.00	0.63	GRD	GRDA	MG	intensely clay altered and strained GRD around 5cm chalcedonic qtz breccia interval, cut with bands of white carbonate, containing trace sulphides, at 74.95m, at 80 deg tca.
75.00	75.10	0.10	QFP	DYK	FG	small fine grained dyke interval
75.10	75.40	0.30	GRD	GRDA	MG	intensely clay altered and strained medium grained GRD. Trace disseminated Py
75.40	76.52	1.12	GRD	GRD	MG	weakly clay altered, broken medium grained GRD, books of biotite generally remain unaltered, but with weak sericite alteratuon around rims. Stringers of Py cutting through. Perv asive weak chlorite alteration.
76.52	76.90	0.38	GRD	GRDA	MG	intensely clay altered medium grianed granodiorite, biotite altered to sericite muscovite. Broken.
76.90	80.10	3.20	QFP	DYK	MG	medium grey QFP dyke, light grey groundmass with white weak to moderately altered feldspars, less common phenocrysts of quartz. Broken and rubbly. Minor to trace disseminated Py throughout. Lower contact becoming faulted and gougey.
80.10	82.30	2.20	GRD	GRDA	MG	faulted moderately clay chlorite altered GRD
82.30	83.62	1.32	GRD	GRD	MG	highly strained and fractured chlorite altered medium grained GRD
83.62	84.70	1.08	GRD	GRDA	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.
84.70	84.80	0.10	QFP	DYK	MG	small QFP dyke, light buff grey green colour, intensely faulted and streined, gougy. Small carbonate veinlet associated, also broken and faulted. Dyke interval sits within a larger interval of fully faulted rock.
84.80	85.05	0.25	GRD	GRDA	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.
85.05	87.78	2.73	GRD	GRD	MG	Highly strained and fractured chlorite altered medium grained GRD

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
87.78	89.41	1.63	QFP	DYK	FG	Intensely faulted and strained fine grained QFP dyke. Light buff green grey colour, intensely clay altered. Unmineralized except for upper and lower contacts, where some disseminated py is observed.
89.41	97.00	7.59	GRD	GRD	MG	highly strained and fractured chlorite altered medium grained GRD, pervasive moderate clay alteration of feldspars. Trace to minor Py along fracture surfaces
97.00	124.99	27.99	GRD	GRDA	MG	Patchy moderate to strongly clay altered medium grained GRD. Patchy weak potassic alteration, Patchy moderate silica flooding around small quartz stringers. Broken and rubbly. Minor disseminated Py. 1cm sheared vein at 124.15m containing py and minor jamesonite, dark gouge on either side of vein
124.99	127.40	2.41	QFP	DYK	FG	Buff grey QFP dyke, moderately clay altered, with fresher chlorite altered dyke in side, containing ~20cm of clay altered fault.
127.40	127.72	0.32	VEN	VEIN	--	banded chalcedonic quartz and white carbonate vein with minor py and jamesonite and trace sphalerite. 40 deg tca
127.72	134.00	6.28	GRD	GRDA	MG	medium grained GRD. Moderately clay altered, weakly chlorite altered, generally broken. Disseminated Py.
134.00	135.10	1.10	QFP	DYK	FG	pale buff green foliated dyke, broke and clay altered, highly fractured. Trace disseminated Py.
135.10	135.60	0.50	GRD	GRDA	MG	Medium grained GRD. Fractured and broken strongly clay altered and silica flooded, patchy weak hematite alteration.
135.60	136.50	0.90	QFP	DYK	FG	fine grained dyke, silica and clay altered, moderate hematite staining. Disseminated Py.
136.50	142.40	5.90	GRD	GRDA	MG	Strongly silica altered medium grained GRD. Common small patches of epidote alteration.
142.40	147.00	4.60	SIL	DYK	FG	fine grained siliceous dyke, no phenocrysts, or if present, obliderated by silica alteration.
147.00	153.10	6.10	QFP	DYK	FG	fine grained matrix, common rounded feldspar phenocrysts.
153.10	155.30	2.20	SIL	DYK	FG	fine grained siliceous dyke, no phenocrysts, or if present, obliderated by silica alteration.
155.30	160.20	4.90	GRD	GRDA	MG	Medium grained GRD. Patchy strong chlorite alteration. Strong clay alteration envelopes around veinlets
160.20	160.40	0.20	VEN	GRDA	--	20cm brecciated qtz carboante vein with py.
160.40	163.90	3.50	GRD	GRDA	MG	Medium grained GRD. Patchy strong chlorite alteration.
163.90	167.55	3.65	GRD	GRDA	MG	intense clay alteration. Small patch of silica flooding aorund small qtz-py vein at 164.5m.
167.55	169.40	1.85	GRD	FLTM	--	faulted altered med grianed GRD with 4% Py over interval. Brecciated and sheared, light pink carbonate veilets, broken, at top of interval. Shears at 35 deg tca
169.40	171.00	1.60	QFP	DYKM	FG	fine grained grey-buff QFP dyke with minor disseminated Py.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
171.00	171.80	0.80	GRD	GRDF	MG	mod clay alt, diss py, fractured
171.80	173.00	1.20	GRD	GRDF	MG	strained chlorite altered mg grd
173.00	174.05	1.05	GRD	GRDF	MG	Sheared and strained stronly clay altered medium grained GRD
174.05	174.90	0.85	GRD	GRDF	MG	moderately clay altered , cut by small carbonate veinlets
174.90	175.70	0.80	GRD	GRDF	MG	strained chlorite altered grd
175.70	175.80	0.10	VEN	GRDF	--	pink carbonate vein at 25 deg tca
175.80	178.50	2.70	GRD	GRDF	MG	intensely sheared and strained and clay altered medium grained GRD
178.50	178.90	0.40	QFP	GRDF	FG	clasts of fine grained felsic volcaninc dyke in intensely clay altered and strained/sheared medium grained GRD
178.90	182.40	3.50	GRD	GRDF	MG	intensely sheared and strained and clay altered, moderately chlorite altered medium grained GRD.
182.40	182.60	0.20	VEN	GRDF	--	clasts of quartz vein in sheared clay altered GRD
182.60	185.30	2.70	GRD	GRDF	MG	intensely sheared and strained and clay altered, moderately chlorite altered medium grained GRD.
185.30	188.00	2.70	GRD	GRDF	MG	broken moderately clay altered, chlorite altered, medium grained GRD
188.00	190.00	2.00	GRD	GRDF	MG	intensely sheared and strained and clay-chlorite altered, moderately chlorite altered medium grained GRD.
190.00	199.95	9.95	GRD	GRDF	MG	intensely sheared and strained and clay altered medium grained GRD. Some clasts of minerlized vein fragments in shears, 1-2cm qtz py veins at 195.5m and 197.4m, both at 45 deg tca, qtz smokey in colour.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.50	1.50	CAS	--	casing							
1.50	4.20	2.70	OVB	--	overburden							
4.20	5.90	1.70	GRD	MG	medium grained GRD. Pervasively clay altered. Fractured and broken. Oxidation on fracture surfaces. Light grey in colour. Common small stringers containing Py. Weak propyllitic alteration, seemingly overprinted by later clay alteration.							
						MD	GY	FR	CLY	4I	Py	1
						LT	GY		CHL	2I		
5.90	7.90	2.00	GRD	--	sheared and faulted GRD, rubbly gouge, totally broken, very minor conpotent clasts. Disseminated Py throughout. Light green grey colour, chlorite alteration? Green colour increasing with depth in interval, grading from light grey to med green at bottom. Shear with dark grey gouge at 15 deg tca near bottom of interval, minor disseminated Py. Bottom contact is dark grey gouge/clay, with disseminated py, ~2cm thick.							
						LT	GY	SH	CLY	4I	Py	1
						LT	GN	FR	CHL	4I		
						MD	GN	ST				
								RB				
7.90	8.90	1.00	FLR	--	faulted, sheared, strained buff grey siliceous or felsic dyke. Patchy hematite staining. No visible mineralization.							
						LT	GY	SH	CLY	5I		
						LT	BF	ST	HEM	2I		
8.90	12.19	3.29	FLR	--	sheared and strongly clay altered GRD. Minor fine disseminate py.							
						MD	GY	ST				
						LT	GY	SH	CLY	5I	Py	1
12.19	16.55	4.36	GRD	MG	broken and rubbly granodiorite, silica and clay alteration. Mineralized sections, where silica alteration is stronger, contianing fine grained Py, chiefly between 14.5-16.0m.							
						MD	GY	FR	SIL	4I	Py	2
						LT	GY		CLY	4I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.55	19.50	2.95	GRD	MG	Strained medium grained grd with darker grey bands of shear throughout. Disseminated py throughout. Feldspars totally alterred to clay.							
						LT	GY	ST	CLY	5I	Py	1
								SH				
19.50	48.05	28.55	GRD	MG	Interval of strongly clay altered med grained GRD, with patchy potassic or phylic alteration. Whole interval cut buy common small shears or faulted intervals. Disseminated Py throughout and occuring as ~5mm blebs or in stringers.							
									PRO	2I		
						LT	GY	ST	CLY	4I		
						MD	GY		CHL	2I		
									POT	2I		
48.05	62.55	14.50	POR	MG	phenocryst supported QFP dyke, larger phenocrysts of quarts, smaller feldspars and small books of muscovite/sericite/altered biotite. Clay alteration pervaisve, alteration of biotite to sericite, alteration of feldspars to clay minerals. Rock is light green-grey. Disseminated Py throughout. Top of interval gougy at contact with GRD. Rubbly and broken throughout.							
						LT	BF	ST	SER	3I		
						LT	GY	PO	CLY	4I	Py	1
						LT	GN	RB	SIL	2I		
62.55	67.90	5.35	QFP	FG	buff grey qfp dyke with smaller phenocrysts than interval above, markedly different matrix, opaque where as above matrix was translucent. Broken and strained							
67.90	74.37	6.47	GRD	MG	highly fractured GRD, broken rock, weak clay alteration of feldspars, white clay, pervaisve chlorite alteration of mafivc minerals, dark green grey colour. Patchy weak silica alteration. Minor stringers of Py throughout							
						DK	GN	FR	CHL	4I	Py	0.5
						MD	GY	CR	CHL	2I		
								ST	SIL	1I		
74.37	75.00	0.63	GRD	MG	Intensely clay altered and strained GRD. Lower contact is 5cm chalcedonic qtz breccia interval, cut with bands of white carbonate, containing trace sulphides, at 74.95m, at 80 deg tca.							
						LT	GY	ST	CLY	5I	Py	0.5
								SH	SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
75.00	75.10	0.10	QFP	FG	small fine grained dyke interval							
						LT	BF					
						LT	GY	FR	CLY	4I		
75.10	75.40	0.30	GRD	MG	intensely clay altered and strained medium grained GRD. Trace disseminated Py							
						LT	GY	ST	CLY	5I	Py	0.5
75.40	76.52	1.12	GRD	MG	weakly clay altered, broken medium grained GRD, books of biotite generally remain unaltered, but with weak sericite alteratuon around rims. Stringers of Py cutting through. Perv asive weak chlorite alteration.							
						MD	GN		SER	2I		
									CHL	3I		
						MD	GY	FR	CLY	2I	Py	1.5
76.52	76.90	0.38	GRD	MG	intensely clay altered medium grianed granodiorite, biotite altered to sericite muscovite. Broken.							
									SER	3I		
						LT	GY	FR	CLY	5I	Py	1
76.90	80.10	3.20	QFP	MG	medium grey QFP dyke, light grey groundmass with white weak to moderately altered feldspars, less common phenocrysts of quartz. Broken and rubbly. Minor to trace disseminated Py throughout. Lower contact becoming faulted and gougey.							
						LT	GY	PO	CLY	3I	Py	5
								FR	SIL	2I		
80.10	82.30	2.20	GRD	MG	faulted moderately clay chlorite altered GRD							
82.30	83.62	1.32	GRD	MG	highly strained and fractured chlorite altered medium grained GRD							
						MD	GY		CLY	2I		
						MD	GN	ST	CHL	4I	Py	0.5
83.62	84.70	1.08	GRD	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.							
						LT	GY	ST	CLY	5I	Py	0.5
84.70	84.80	0.10	QFP	MG	small QFP dyke, light buff grey green colour, intensely faulted and streined, gougy. Small carbonate veinlet associated, also broken and faulted. Dyke interval sits within a larger interval of fully faulted rock.							
						LT	GY	ST	CLY	5I	Py	2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
84.80	85.05	0.25	GRD	MG	Faulted, intensely strained and clay altered medium grained GRD. Gougey.							
						LT	GY	ST	CLY	5I	Py	0.5
85.05	87.78	2.73	GRD	MG	Highly strained and fractured chlorite altered medium grained GRD							
						MD	GN	ST	CHL	4I	Py	0.5
						MD	GY	FR	CLY	3I		
87.78	89.41	1.63	QFP	FG	Intensely faulted and strained fine grained QFP dyke. Light buff green grey colour, intensely clay altered. Unmineralized except for upper and lower contacts, where some disseminated py is observed.							
						LT	BF	FR				
						LT	GY	ST	CLY	5I	Py	0.2
89.41	97.00	7.59	GRD	MG	highly strained and fractured chlorite altered medium grained GRD, pervasive moderate clay alteration of feldspars. Trace to minor Py along fracture surfaces							
						MD	GY	FR	CLY	3I	Py	0.5
						MD	GN	ST	CHL	3I		
								RB				
97.00	124.99	27.99	GRD	MG	Patchy moderate to strongly clay altered medium grained GRD. Patchy weak potassic alteration, Patchy moderate silica flooding around small quartz stringers. Broken and rubbly. Minor disseminated Py. 1cm sheared vein at 124.15m containing py and minor jamesonite, dark gouge on either side of vein							
						LT	GY	ST	CLY	4I	Py	0.5
						MD	GY				Py	0.1
											Ja	0.1
124.99	127.40	2.41	QFP	FG	Buff grey QFP dyke, moderately clay altered, with fresher chlorite altered dyke in side, containing ~20cm of clay altered fault.							
						MD	BF					
						MD	GN	FR	CLY	4I		
						LT	GN	ZO	CHL	3I		
127.40	127.72	0.32	VEN	--	banded chalcedonic quartz and white carbonate vein with minor py and jamesonite and trace sphalerite. 40 deg tca							
											Sp	0.5
						LT	CR	ZO			Py	1
											Ja	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
127.72	134.00	6.28	GRD	MG	medium grained GRD. Moderately clay altered, weakly chlorite altered, generally broken. Disseminated Py.							
						MD	GY	ST	CLY	3I	Py	1
								FR	CHL	2I		
134.00	135.10	1.10	QFP	FG	pale buff green foliated dyke, broke and clay altered, highly fractured. Trace disseminated Py.							
						LT	BF	FL	CLY	4I	Py	0.1
						LT	GN	FR				
						MD	GY					
135.10	135.60	0.50	GRD	MG	Medium grained GRD. Fractured and broken strongly clay altered and silica flooded, patchy weak hematite alteration.							
						MD	GY	FR	CLY	5I	Py	1
						LT	GY	RB	HEM	2I		
						LT	PK		SIL	3I		
135.60	136.50	0.90	QFP	FG	fine grained dyke, silica and clay altered, moderate hematite staining. Disseminated Py.							
						MD	GY	FR	CLY	3I	Py	1
						LT	GY	RB	SIL	4I		
						MD	RD		HEM	2I		
136.50	142.40	5.90	GRD	MG	Strongly silica altered medium grained GRD. Common small patches of epidote alteration.							
						MD	GY	FL	SIL	5I	Py	1
						MD	GN	CR	CLY	3I		
									EP	2I		
									CHL	2I		
142.40	155.30	12.90	QFP	FG	Fine grained QFP dyke with strong silica alteration and weak clay alteration. Fine grained on edges of dyke, porphyritic in center. Medium grey green. Small Py stringers. Top of interval brecciated with ~5% py throughout.							
						MD	GY	PO	SIL	4I	Py	1
						MD	GN		CLY	2I		
									CHL	2I		
155.30	167.55	12.25	GRD	MG	Medium grained GRD. Patchy strong chlorite alteration. Strong clay alteration envelopes around vien intervals at 160.3m, 20cm brecciated qtz carboante vein with py. Silica flooding around small 2cm vein at 164.5m containing Py. Strong clay alteration between 164m to end of interval contact with fault below.							
						LT	GY		SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									POT	1I		
						MD	GN		CHL	3I		
						MD	GY		CLY	4I	Py	1
167.55	169.40	1.85	GRD	--	faulted altered med grianed GRD with 4% Py over interval. Brecciated and sheared, light pink carbonate veilets, broken, at top of interval. Shears at 35 deg tca							
						LT	GY	FR				
						MD	GY	ST	CLY	4I	Py	4
169.40	171.00	1.60	QFP	FG	fine grained grey-buff QFP dyke with minor disseminated Py.							
						LT	GY	PO	CLY	3I	Py	1
						LT	BF					
171.00	199.95	28.95	GRD	--	Highly fractured and faulted, strained and sheared. Locally intensely bleached and white clay altered, or chlorite-white clay altered. Patchy mineralization or pink-cream carbonate viening. Disseminated Py througout. Clasts of fine gained felsic dyke occuring between 178-179m. Details of alteration broken out in detailed Lith.							
						MD	GY	ST	CLY	5I	Py	1
						LT	GY	SH	CHL	4I		
						MD	GN	FR				
								CR				

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.50	1.50	0	0	0.00	0	--	--	--	
1.50	1.83	0.33	0.3	91	0.00	0	--	3H	5W	overburden/ rubble
1.83	4.88	3.05	1.62	53	0.00	0	--	2H	6W	
4.88	6.10	1.22	1.22	100	0.00	0	--	3H	5W	
6.10	7.62	1.52	1.46	96	0.00	0	--	1H	3W	clay fault gouge
7.62	9.14	1.52	1.51	99	0.00	0	--	1H	2W	
9.14	10.67	1.53	1.27	83	0.00	0	--	2H	2W	
10.67	12.19	1.52	1.03	68	0.00	0	--	1H	2W	sand and clay
12.19	13.72	1.53	0.98	64	0.00	0	--	2H	1W	
13.72	16.76	3.04	2.45	81	0.00	0	--	2H	1W	lots of pyrite and unidentified black mineral veins in some samples
16.76	18.29	1.53	1.4	92	0.48	31	--	2H	1W	clayey
18.29	19.81	1.52	1.46	96	1.01	66	--	2H	1W	
19.81	21.34	1.53	1.44	94	0.50	33	--	2H	1W	
21.34	22.86	1.52	1.5	99	0.49	32	--	3H	1W	
22.86	24.38	1.52	1.48	97	0.65	43	--	3H	1W	
24.38	25.91	1.53	1.47	96	0.10	7	--	2H	1W	
25.91	27.43	1.52	1.46	96	0.41	27	--	2H	1W	clayey fault gouge
27.43	28.96	1.53	1.46	95	0.00	0	--	2H	1W	large k feldspar grains in part of chewed up fault gouge rock around 28m.
28.96	30.48	1.52	1.46	96	0.41	27	--	2H	1W	
30.48	32.00	1.52	1.48	97	0.10	7	--	2H	1W	
32.00	33.53	1.53	1.45	95	0.44	29	--	2H	1W	
33.53	35.05	1.52	1.44	95	0.25	16	--	3H	1W	
35.05	38.10	3.05	2.89	95	0.26	9	--	3H	1W	
38.10	39.62	1.52	1.47	97	0.25	16	--	3H	1W	
39.62	41.15	1.53	1.48	97	0.60	39	--	3H	1W	clayey
41.15	42.67	1.52	1.4	92	0.57	38	--	3H	1W	clayey; hardness down to 2 toward the bottom of interval
42.67	44.20	1.53	1.33	87	0.40	26	--	2H	1W	clayey

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.72	1.52	1.01	66	0.00	0	--	3H	1W	clayey
45.72	46.02	0.30	0.12	40	0.00	0	--	2H	1W	clayey
46.02	46.33	0.31	0.11	35	0.00	0	--	2H	1W	clayey
46.33	46.63	0.30	0.3	100	0.30	100	--	2H	1W	clayey gouge
46.63	47.24	0.61	0.3	49	0.20	33	--	2H	1W	clayey
47.24	47.85	0.61	0.38	62	0.28	46	--	2H	1W	clayey gouge
47.85	49.68	1.83	1.52	83	1.26	69	--	3H	1W	clayey
49.68	50.29	0.61	0.41	67	0.00	0	--	2H	1W	clayey rubble
50.29	50.90	0.61	0.12	20	0.00	0	--	2H	1W	clayey rubble
50.90	51.51	0.61	0.16	26	0.00	0	--	2H	1W	clayey rubble
51.51	51.82	0.31	0.31	100	0.00	0	--	3H	1W	clayey
51.82	52.12	0.30	0.16	53	0.00	0	--	2H	1W	clayey
52.12	52.73	0.61	0.3	49	0.00	0	--	2H	1W	clayey
52.73	53.34	0.61	0.26	43	0.00	0	--	3H	1W	clayey rubble
53.34	53.95	0.61	0.56	92	0.00	0	--	3H	1W	clayey rubble
53.95	54.56	0.61	0.18	30	0.00	0	--	2H	1W	clayey gouge
54.56	55.47	0.91	0.6	66	0.00	0	--	3H	1W	clayey, fractured core
55.47	56.08	0.61	0.33	54	0.00	0	--	3H	1W	clayey rubble
56.08	57.30	1.22	1.22	100	0.00	0	--	3H	1W	clayey, fractured core
57.30	57.91	0.61	0.5	82	0.00	0	--	3H	1W	clayey, fractured core
57.91	59.44	1.53	1.34	88	0.00	0	--	3H	1W	clayey, fractured core
59.44	60.35	0.91	0.7	77	0.00	0	--	2H	1W	clayey, fractured rock
60.35	60.96	0.61	0.32	52	0.00	0	--	2H	1W	clayey gouge
60.96	62.48	1.52	0.94	62	0.00	0	--	2H	1W	clayey
62.48	64.01	1.53	1.46	95	0.00	0	--	3H	1W	clay-alt QFP dyke; jigsaw fractures throughout
64.01	65.53	1.52	1.43	94	0.00	0	--	3H	1W	clay altered QFP dyke
65.53	67.06	1.53	1.47	96	0.00	0	--	3H	1W	
67.06	68.28	1.22	0.86	70	0.00	0	--	2H	1W	
68.28	69.80	1.52	1.38	91	0.00	0	--	1H	1W	clay goo
69.80	71.63	1.83	1.25	68	0.00	0	--	2H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
71.63	72.85	1.22	1.14	93	0.00	0	--	3H	1W	clay altered granodiorite
72.85	74.37	1.52	1.06	70	0.00	0	--	3H	1W	
74.37	75.90	1.53	1.19	78	0.00	0	--	3H	1W	light grey heavily clay altered granodiorite, texture completely obliterated
75.90	77.42	1.52	1.25	82	0.00	0	--	3H	1W	
77.42	78.33	0.91	0.67	74	0.00	0	--	2H	1W	fractured rubble
78.33	79.25	0.92	0.83	90	0.00	0	--	2H	1W	clayey
79.25	80.77	1.52	0.69	45	0.00	0	--	2H	1W	clayey
80.77	82.30	1.53	0.72	47	0.00	0	--	2H	1W	
82.30	83.82	1.52	1.19	78	0.00	0	--	2H	1W	
83.82	85.34	1.52	1.19	78	0.00	0	--	2H	1W	clayey
85.34	85.95	0.61	0.6	98	0.00	0	--	2H	1W	
85.95	86.26	0.31	0.23	74	0.00	0	--	2H	1W	
86.26	86.87	0.61	0.47	77	0.00	0	--	2H	1W	
86.87	87.17	0.30	0.14	47	0.00	0	--	2H	1W	
87.17	87.78	0.61	0.18	30	0.00	0	--	2H	1W	
87.78	88.70	0.92	0.38	41	0.00	0	--	2H	1W	
88.70	89.92	1.22	0.89	73	0.00	0	--	2H	1W	
89.92	90.53	0.61	0.34	56	0.00	0	--	2H	1W	
90.53	91.74	1.21	0.67	55	0.00	0	--	2H	1W	
91.74	92.05	0.31	0.25	81	0.00	0	--	2H	1W	
92.05	92.96	0.91	0.36	40	0.00	0	--	2H	1W	
92.96	94.49	1.53	0.77	50	0.00	0	--	2H	1W	
94.49	96.01	1.52	0.68	45	0.00	0	--	2H	1W	
96.01	97.54	1.53	0.4	26	0.00	0	--	2H	1W	
97.54	98.76	1.22	1.15	94	0.38	31	--	3H	1W	
98.76	99.36	0.60	0.45	75	0.00	0	--	3H	1W	
99.36	99.97	0.61	0.35	57	0.00	0	--	2H	1W	
99.97	101.19	1.22	1.14	93	0.00	0	--	3H	1W	
101.19	102.41	1.22	0.34	28	0.00	0	--	3H	1W	
102.41	104.24	1.83	0.92	50	0.33	18	--	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
104.24	106.66	2.42	0.77	32	0.00	0	--	2H	1W	Gouged medium brown interval.
106.66	108.20	1.54	0.71	46	0.00	0	--	2H	1W	Gouged medium grey interval.
108.20	109.12	0.92	0.91	99	0.00	0	--	2H	1W	Medium brown gouge and rubble.
109.12	110.64	1.52	1.5	99	0.18	12	--	3H	1W	medium grey rubble.
110.64	111.56	0.92	0.76	83	0.11	12	--	3H	1W	
111.56	112.47	0.91	0.85	93	0.17	19	--	2H	1W	medium grey rubble.
112.47	113.08	0.61	0.39	64	0.00	0	--	3H	1W	
113.08	114.30	1.22	1.22	100	0.15	12	--	3H	1W	
114.30	115.52	1.22	1.21	99	0.00	0	--	2H	1W	
115.52	116.13	0.61	0.19	31	0.00	0	--	2H	1W	
116.13	117.35	1.22	1.22	100	0.00	0	--	3H	1W	
117.35	117.96	0.61	0.35	57	0.00	0	--	2H	1W	
117.96	119.18	1.22	1.1	90	0.00	0	--	3H	1W	
119.18	120.40	1.22	1.11	91	0.00	0	--	3H	1W	
120.40	121.92	1.52	1.32	87	0.00	0	--	3H	1W	
121.92	123.44	1.52	1.31	86	0.00	0	--	3H	1W	pyrite on fracture surfaces
123.44	126.49	3.05	2.7	89	0.39	13	--	3H	1W	
126.49	128.02	1.53	1.35	88	0.55	36	--	3H	1W	
128.02	129.54	1.52	1.52	100	0.00	0	--	3H	1W	
129.54	132.59	3.05	2.48	81	0.00	0	--	3H	1W	
132.59	133.81	1.22	0.99	81	0.00	0	--	3H	1W	pyrite on fracture surfaces
133.81	135.03	1.22	1.19	98	0.00	0	--	2H	1W	
135.03	136.86	1.83	1.62	89	0.43	23	--	2H	1W	
136.86	138.38	1.52	1.37	90	0.21	14	--	3H	1W	
138.38	140.20	1.82	1.82	100	0.61	34	--	3H	1W	
140.20	141.73	1.53	1.41	92	0.38	25	--	3H	1W	
141.73	143.87	2.14	1.57	73	0.35	16	--	3H	1W	blebby pyrite and weak white clay on fracture surfaces.
143.87	144.78	0.91	0.87	96	0.14	15	--	3H	1W	Mix of competent rock with 1cm massive pyrite veins and blebby 5% pyrite. Brecciated zones with weak white clay alteration and blebby pyrite.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
144.78	147.22	2.44	2.25	92	1.25	51	--	3H	1W	Moderate clay altered fault breccia with 5-10% blebby and disseminated pyrite. Local 1% blebby chalcopyrite associated with blebby/massive pyrite
147.22	148.74	1.52	1.14	75	0.00	0	--	3H	1W	Blocky granodiorite
148.74	150.27	1.53	1.5	98	0.00	0	--	3H	1W	Blocky granodiorite
150.27	151.18	0.91	0.87	96	0.13	14	--	3H	1W	Blocky granodiorite
151.18	153.51	2.33	1.64	70	0.58	25	--	3H	1W	Blocky medium green granodiorite with 1-2% disseminated and blebby pyrite.
153.51	154.23	0.72	0.7	97	0.35	49	--	3H	1W	
154.23	156.36	2.13	1.85	87	0.96	45	--	3H	1W	Medium to light green granodiorite with local weak epidote and trace potassic alteration.
156.36	157.55	1.19	1.18	99	0.61	51	--	3H	1W	
157.55	159.41	1.86	1.76	95	0.70	38	--	3H	1W	
159.41	161.24	1.83	1.8	98	0.31	17	--	3H	1W	
161.24	162.46	1.22	1.22	100	0.00	0	--	3H	1W	2-10cm gouged sections with rubble and moderately competent rock.
162.46	163.98	1.52	1.52	100	0.42	28	--	3H	1W	Rubble with strong pyrite on fracture surfaces.
163.98	166.42	2.44	2.43	100	1.05	43	--	3H	1W	Strong white clay alteration.
166.42	167.94	1.52	1.43	94	0.35	23	--	2H	1W	White strong clay altered gouge and blocks.
167.94	169.77	1.83	1.81	99	0.58	32	--	2H	1W	White clay altered fault breccia. 2-5% disseminated and blebby pyrite.
169.77	170.99	1.22	1.22	100	0.00	0	--	3H	1W	Moderate clay altered rubble and gouge surfaces.
170.99	171.69	0.70	0.6	86	0.00	0	--	2H	1W	Rubble and gouge interval.
171.69	173.13	1.44	1.44	100	0.36	25	--	1H	1W	
173.13	173.74	0.61	0.61	100	0.00	0	--	1H	1W	
173.74	174.04	0.30	0.29	97	0.00	0	--	1H	1W	Light to dark grey gouge and blocks.
174.04	175.56	1.52	1.52	100	0.10	7	--	2H	1W	
175.56	176.48	0.92	0.82	89	0.59	64	--	1H	1W	Strong white clay altered fault breccia zone. Cave in at beginning of interval.
176.48	177.39	0.91	0.65	71	0.60	66	--	2H	1W	Competent clay altered fault breccia.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
177.39	178.92	1.53	1.32	86	1.12	73	--	2H	1W	Competent clay altered fault breccia with 10cm clasts.
178.92	179.83	0.91	0.88	97	0.00	0	--	2H	1W	clayey
179.83	181.05	1.22	0.9	74	0.00	0	--	2H	1W	
181.05	182.27	1.22	1.21	99	0.00	0	--	2H	1W	clayey
182.27	183.79	1.52	0.94	62	0.00	0	--	2H	1W	
183.79	185.62	1.83	1.79	98	0.00	0	--	2H	1W	lots of pyrite in clay gouge
185.62	188.06	2.44	1.9	78	0.00	0	--	2H	1W	pyrite in rubble
188.06	188.67	0.61	0.4	66	0.00	0	--	2H	1W	
188.67	189.89	1.22	1.11	91	0.00	0	--	2H	1W	clayey
189.89	191.72	1.83	1.55	85	0.00	0	--	2H	1W	
191.72	193.85	2.13	1.63	77	0.00	0	--	2H	1W	
193.85	195.07	1.22	1.2	98	0.00	0	--	2H	1W	
195.07	196.60	1.53	1.48	97	0.00	0	--	2H	1W	quartz + pyrite vein
196.60	199.03	2.43	2.42	100	0.00	0	--	2H	1W	pyrite vein ~1.5cm width in clay gouge
199.03	199.95	0.92	0.81	88	0.00	0	--	2H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	0.168	OVB	
3	0.124	OVB	
4	0.09	OVB	
5	0.564	GRD	
6	1.77	GRD	
7	5.406	GRD	
8	0.302	FLR	
9	0.291	FLR	
10	0.287	FLR	
11	0.214	FLR	
12	0.726	FLR	
13	0.266	GRD	
14	0.247	GRD	
15	0.312	GRD	
16	0.199	GRD	
17	0.509	GRD	
18	0.538	GRD	
19	0.157	GRD	
20	0.121	GRD	
21	0.36	GRD	
22	0.222	GRD	
23	0.272	GRD	
24	0.387	GRD	
25	0.318	GRD	
26	0.298	GRD	
27	0.182	GRD	
28	0.181	GRD	
29	0.285	GRD	
30	0.162	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
31	0.142	GRD	
32	0.131	GRD	
33	0.234	GRD	
34	0.181	GRD	
35	0.143	GRD	
36	0.223	GRD	
37	0.132	GRD	
38	0.398	GRD	
39	1.27	GRD	
40	0.396	GRD	
41	0.34	GRD	
42	0.289	GRD	
43	0.141	GRD	
44	0.261	GRD	
45	0.267	GRD	
46	0.361	GRD	
47	0.232	GRD	
48	0.133	GRD	
49	0.145	POR	
50	0.159	POR	
51	0.193	POR	
52	0.482	POR	
53	0	POR	rubble
54	0.186	POR	
55	0.251	POR	
56	0	POR	rubble
57	0.178	POR	
58	0.181	POR	
59	0.17	POR	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
60	0.119	POR	
61	0.191	POR	
62	0.229	POR	
63	0.373	QFP	
63	0.304	QFP	
64	0.251	QFP	
65	0.258	QFP	
66	0.225	QFP	
67	0.283	QFP	
68	13.04	GRD	
69	6.629	GRD	
70	0.27	GRD	
71	0.237	GRD	
72	6.838	GRD	
73	4.477	GRD	
74	1.324	GRD	
75	0.348	GRD	
75	0.348	QFP	
76	0.34	GRD	
77	0.182	QFP	
78	0.19	QFP	
79	0.209	QFP	
80	2.188	QFP	
81	0.184	GRD	
82	1.48	GRD	
83	13.99	GRD	
84	0.32	GRD	
85	0.335	GRD	
86	6.525	GRD	
87	0.304	GRD	
88	0.366	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
89	0.379	QFP	
90	8.912	GRD	
91	33.92	GRD	
92	3.691	GRD	
93	23.22	GRD	
94	33.03	GRD	
95	3.364	GRD	
96	28.5	GRD	
97	8.073	GRD	
97	8.073	GRD	
98	0.344	GRD	
99	0.223	GRD	
100	0.349	GRD	
101	1.493	GRD	
102	0.141	GRD	
103	0.087	GRD	
104	0.119	GRD	
105	0.319	GRD	
106	0.063	GRD	
107	0.012	GRD	
108	0.072	GRD	
109	0.135	GRD	
110	0.019	GRD	
111	0.383	GRD	
112	1.095	GRD	
113	0.474	GRD	
114	6.039	GRD	
115	31.77	GRD	
116	2.185	GRD	
117	11.74	GRD	
118	3.073	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
119	4.451	GRD	
120	0.567	GRD	
121	0.15	GRD	
122	0.354	GRD	
123	0.052	GRD	
124	0.055	GRD	
125	0.173	QFP	
126	0.155	QFP	
127	0.094	QFP	
128	0.064	GRD	
129	1.239	GRD	
130	0.856	GRD	
131	1.033	GRD	
132	0.15	GRD	
133	0.215	GRD	
134	0.027	GRD	
134	0.027	QFP	
135	0.067	QFP	
136	0.129	QFP	
137	0.272	GRD	
138	0.397	GRD	
139	0.187	GRD	
140	1.423	GRD	
141	0.462	GRD	
142	0.169	GRD	
143	0.082	QFP	
144	0.137	QFP	
145	0.099	QFP	
146	0.092	QFP	
147	0.214	QFP	
148	0.074	QFP	
149	0.377	QFP	
150	0.154	QFP	
151	0.101	QFP	
152	0.274	QFP	
153	0.099	QFP	
154	0.166	QFP	
155	0.333	QFP	
156	0.117	GRD	
157	0.084	GRD	
158	0.07	GRD	
159	0.142	GRD	
160	0.254	GRD	
161	0.186	GRD	
162	5.467	GRD	
163	0.476	GRD	
164	0.448	GRD	
165	0.144	GRD	
166	0.219	GRD	
167	0.147	GRD	
168	0.062	GRD	
169	0.082	GRD	
170	0.102	QFP	
171	0.146	QFP	
171	0.146	GRD	
172	2.49	GRD	
173	6.277	GRD	
174	1.327	GRD	
175	1.507	GRD	
176	0.755	GRD	
177	0.482	GRD	
178	0.372	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
179	0.243	GRD	
180	0.181	GRD	
181	0.874	GRD	
182	13.01	GRD	
183	7.468	GRD	
184	0.291	GRD	
185	0.352	GRD	
186	0.352	GRD	
187	0.838	GRD	
188	0.52	GRD	
189	2.825	GRD	
190	10.02	GRD	
191	2.215	GRD	
192	0.267	GRD	
193	7.803	GRD	
194	0.573	GRD	
195	0.235	GRD	
196	1.013	GRD	
197	0.476	GRD	
198	0.219	GRD	
199	3.939	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	W598861	☐	20-064	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304002	☐	20-066	low grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598866	☐	20-064	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598834	☐	20-061	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598829	☐	20-061	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598823	☐	20-061	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304060	☐	20-067	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304048	☐	20-067	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304042	☐	20-067	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304015	☐	20-066	low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304008	☐	20-066	low grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	W598889	☐	20-064	Low Grade		☑	☐	☐
4.20	5.80	1.60	OVB, GRD	1.01	63	W598807	☐	20-059	Low Grade		☐	☐	☐
5.80	7.00	1.20	GRD	1.02	85	W598808	☐	20-059	Low Grade		☐	☐	☐
7.00	8.00	1.00	GRD	0.76	76	W598809	☐	20-059	Low Grade		☐	☐	☐
8.00	9.50	1.50	FLR	1.42	95	W598810	☐	20-059	Low Grade		☐	☐	☐
9.50	11.00	1.50	FLR	1.02	68	W598811	☐	20-059	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
11.00	12.50	1.50	FLR	0.60	40	W598812	☐	20-059	Low Grade		☐	☐	☐
12.50	13.12	0.62	GRD	0.45	73	W598813	☐	20-059	Low Grade		☐	☐	☐
13.12	14.45	1.33	GRD	0.22	17	W598814	☐	20-059	Low Grade		☐	☐	☐
14.45	15.30	0.85	GRD	0.55	65	W598815	☐	20-059	Low Grade		☐	☐	☐
15.30	16.50	1.20	GRD	0.63	53	W598816	☐	20-059	Low Grade		☐	☐	☐
16.50	17.50	1.00	GRD	0.91	91	W598817	☐	20-061	Low Grade		☐	☐	☐
17.50	19.00	1.50	GRD	1.26	84	W598818	☐	20-061	Low Grade		☐	☐	☐
19.00	20.50	1.50	GRD	1.37	91	W598819	☐	20-061	Low Grade		☐	☐	☐
20.50	22.00	1.50	GRD	1.42	95	W598820	☐	20-061	Low Grade		☐	☐	☐
22.00	23.50	1.50	GRD	1.39	93	W598821	☐	20-061	Low Grade		☐	☐	☐
23.50	25.00	1.50	GRD	1.42	95	W598822	☐	20-061	Low Grade		☐	☐	☐
25.00	26.50	1.50	GRD	1.43	95	W598824	☐	20-061	Low Grade		☐	☐	☐
26.50	28.00	1.50	GRD	1.39	93	W598825	☐	20-061	Low Grade		☐	☐	☐
28.00	29.50	1.50	GRD	1.40	93	W598826	☐	20-061	Low Grade		☐	☐	☐
29.50	31.00	1.50	GRD	1.42	95	W598827	☐	20-061	Low Grade		☐	☐	☐
31.00	32.50	1.50	GRD	1.32	88	W598828	☐	20-061	Low Grade		☐	☐	☐
32.50	34.00	1.50	GRD	1.22	81	W598830	☐	20-061	Low Grade		☐	☐	☐
34.00	34.50	0.50	GRD	0.45	90	W598831	☐	20-061	Low Grade		☐	☐	☐
34.50	35.50	1.00	GRD	0.93	93	W598832	☐	20-061	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
35.50	37.00	1.50	GRD	1.29	86	W598833	☐	20-061	Low Grade		☐	☐	☐
37.00	38.50	1.50	GRD	1.20	80	W598835	☐	20-061	Low Grade		☐	☐	☐
38.50	40.00	1.50	GRD	1.50	100	W598836	☐	20-061	Low Grade		☐	☐	☐
40.00	41.50	1.50	GRD	1.50	100	W598837	☐	20-061	Low Grade		☐	☐	☐
41.50	42.45	0.95	GRD	0.95	100	W598838	☐	20-061	Low Grade		☐	☐	☐
42.45	43.00	0.55	GRD	0.50	91	W598839	☐	20-061	Low Grade		☐	☐	☐
43.00	44.50	1.50	GRD	1.34	89	W598840	☐	20-061	Low Grade		☐	☐	☐
43.00	44.50	1.50	GRD	1.34	89	W598841	☐	20-061	Low Grade		☐	☐	☑
44.50	46.00	1.50	GRD	1.00	67	W598842	☐	20-061	Low Grade		☐	☐	☐
46.00	47.50	1.50	GRD	1.09	73	W598843	☐	20-061	Low Grade		☐	☐	☐
47.50	49.00	1.50	GRD	1.25	83	W598844	☐	20-061	Low Grade		☐	☐	☐
49.00	50.50	1.50	POR	1.07	71	W598845	☐	20-061	Low Grade		☐	☐	☐
50.50	52.00	1.50	POR	0.91	61	W598846	☐	20-061	Low Grade		☐	☐	☐
52.00	53.50	1.50	POR	1.24	83	W598847	☐	20-061	Low Grade		☐	☐	☐
53.50	55.00	1.50	POR	1.00	67	W598848	☐	20-061	Low Grade		☐	☐	☐
55.00	56.50	1.50	POR	1.31	87	W598849	☐	20-061	Low Grade		☐	☐	☐
56.50	58.00	1.50	POR	1.50	100	W598850	☐	20-061	Low Grade		☐	☐	☐
58.00	59.50	1.50	POR	1.41	94	W598851	☐	20-061	Low Grade		☐	☐	☐
59.50	61.00	1.50	POR	1.19	79	W598852	☐	20-061	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
61.00	62.50	1.50	POR	1.15	77	W598853	☐	20-061	Low Grade		☐	☐	☐
61.00	62.50	1.50	POR	1.15	77	W598854	☐	20-061	Low Grade		☐	☑	☐
62.50	64.00	1.50	POR	1.47	98	W598855	☐	20-061	Low Grade		☐	☐	☐
64.00	65.50	1.50	QFP	1.49	99	W598856	☐	20-061	Low Grade		☐	☐	☐
65.50	67.00	1.50	QFP	1.46	97	W598857	☐	20-064	Low Grade		☐	☐	☐
67.00	68.50	1.50	QFP	1.22	81	W598858	☐	20-064	Low Grade		☐	☐	☐
68.50	70.00	1.50	GRD	1.50	100	W598859	☐	20-064	Low Grade		☐	☐	☐
70.00	71.50	1.50	GRD	1.50	100	W598860	☐	20-064	Low Grade		☐	☐	☐
71.50	73.00	1.50	GRD	1.50	100	W598862	☐	20-064	Low Grade		☐	☐	☐
73.00	74.50	1.50	GRD	1.41	94	W598863	☐	20-064	Low Grade		☐	☐	☐
74.50	75.00	0.50	GRD	0.49	98	W598864	☐	20-064	Low Grade		☐	☐	☐
75.00	76.00	1.00	QFP, GRD	0.91	91	W598865	☐	20-064	Low Grade		☐	☐	☐
76.00	77.50	1.50	GRD	1.31	87	W598867	☐	20-064	Low Grade		☐	☐	☐
77.50	79.00	1.50	QFP	1.50	100	W598868	☐	20-064	Low Grade		☐	☐	☐
79.00	80.50	1.50	QFP	1.08	72	W598869	☐	20-064	Low Grade		☐	☐	☐
80.50	82.00	1.50	GRD	0.90	60	W598870	☐	20-064	Low Grade		☐	☐	☐
82.00	83.50	1.50	GRD	1.23	82	W598871	☐	20-064	Low Grade		☐	☐	☐
83.50	85.00	1.50	GRD	1.25	83	W598872	☐	20-064	Low Grade		☐	☐	☐
85.00	86.50	1.50	GRD	1.19	79	W598873	☐	20-064	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
86.50	88.00	1.50	GRD	0.77	51	W598874	☐	20-064	Low Grade		☐	☐	☐
88.00	89.50	1.50	QFP	0.91	61	W598875	☐	20-064	Low Grade		☐	☐	☐
89.50	91.00	1.50	GRD	1.05	70	W598876	☐	20-064	Low Grade		☐	☐	☐
91.00	92.50	1.50	GRD	1.22	81	W598877	☐	20-064	Low Grade		☐	☐	☐
92.50	94.00	1.50	GRD	0.83	55	W598878	☐	20-064	Low Grade		☐	☐	☐
94.00	95.50	1.50	GRD	0.82	55	W598879	☐	20-064	Low Grade		☐	☐	☐
95.50	97.00	1.50	GRD	0.59	39	W598880	☐	20-064	Low Grade		☐	☐	☐
97.00	98.50	1.50	GRD, GRD	1.20	80	W598881	☐	20-064	Low Grade		☐	☐	☐
98.50	100.00	1.50	GRD	1.30	87	W598882	☐	20-064	Low Grade		☐	☐	☐
100.00	101.50	1.50	GRD	1.50	100	W598883	☐	20-064	Low Grade		☐	☐	☐
101.50	103.00	1.50	GRD	0.51	34	W598884	☐	20-064	Low Grade		☐	☐	☐
103.00	104.24	1.24	GRD	0.50	40	W598885	☐	20-064	Low Grade		☐	☐	☐
107.60	108.20	0.60	GRD	0.51	85	W598886	☐	20-064	Low Grade		☐	☐	☐
108.80	110.00	1.20	GRD	0.93	78	W598887	☐	20-064	Low Grade		☐	☐	☐
110.00	111.50	1.50	GRD	1.15	77	W598888	☐	20-064	Low Grade		☐	☐	☐
111.50	113.00	1.50	GRD	1.20	80	W598890	☐	20-064	Low Grade		☐	☐	☐
111.50	113.00	1.50	GRD	1.20	80	W598891	☐	20-064	Low Grade		☐	☐	☑
113.00	114.50	1.50	GRD	1.50	100	W598892	☐	20-064	Low Grade		☐	☐	☐
114.50	116.00	1.50	GRD	1.36	91	W598893	☐	20-064	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
116.00	117.35	1.35	GRD	1.28	95	W598894	☐	20-064	Low Grade		☐	☐	☐
116.00	117.35	1.35	GRD	1.28	95	W598895	☐	20-064	Low Grade		☐	☑	☐
117.85	119.00	1.15	GRD	1.10	96	W598896	☐	20-064	Low Grade		☐	☐	☐
119.00	120.50	1.50	GRD	1.36	91	W598897	☐	20-066	low grade		☐	☐	☐
120.50	121.50	1.00	GRD	1.00	100	W598898	☐	20-066	low grade		☐	☐	☐
121.50	123.00	1.50	GRD	1.33	89	W598899	☐	20-066	low grade		☐	☐	☐
123.00	124.00	1.00	GRD	0.86	86	W598900	☐	20-066	low grade		☐	☐	☐
124.00	124.50	0.50	GRD	0.46	92	B700768	☐	20-036	High Grade		☐	☐	☐
124.50	126.00	1.50	GRD	1.50	100	C304001	☐	20-066	low grade		☐	☐	☐
126.00	127.35	1.35	QFP	1.29	96	C304003	☐	20-066	low grade		☐	☐	☐
127.35	128.00	0.65	QFP	0.61	94	B700769	☐	20-036	High Grade		☐	☐	☐
128.00	129.50	1.50	GRD	1.46	97	C304004	☐	20-066	low grade		☐	☐	☐
129.50	131.00	1.50	GRD	1.50	100	C304005	☐	20-066	low grade		☐	☐	☐
131.00	132.50	1.50	GRD	1.50	100	C304006	☐	20-066	low grade		☐	☐	☐
132.50	134.00	1.50	GRD	1.50	100	C304007	☐	20-066	low grade		☐	☐	☐
134.00	135.50	1.50	GRD, QFP	1.50	100	C304009	☐	20-066	low grade		☐	☐	☐
135.50	136.55	1.05	GRD	1.05	100	C304010	☐	20-066	low grade		☐	☐	☐
136.55	138.00	1.45	GRD	1.42	98	C304011	☐	20-066	low grade		☐	☐	☐
138.00	139.50	1.50	GRD	1.50	100	C304012	☐	20-066	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
139.50	141.00	1.50	GRD	1.39	93	C304013	☐	20-066	low grade		☐	☐	☐
141.00	142.50	1.50	GRD	1.50	100	C304014	☐	20-066	low grade		☐	☐	☐
142.50	143.87	1.37	QFP	1.10	80	C304016	☐	20-066	low grade		☐	☐	☐
143.87	145.00	1.13	QFP	1.06	94	B700770	☐	20-036	High Grade		☐	☐	☐
145.00	146.00	1.00	QFP	1.00	100	B700771	☐	20-036	High Grade		☐	☐	☐
146.00	147.00	1.00	QFP	0.80	80	C304017	☐	20-066	low grade		☐	☐	☐
147.00	148.50	1.50	QFP	1.50	100	C304018	☐	20-066	low grade		☐	☐	☐
148.50	150.00	1.50	QFP	1.50	100	C304019	☐	20-066	low grade		☐	☐	☐
148.50	150.00	1.50	QFP	1.50	100	C304020	☐	20-066	low grade		☐	☑	☐
150.00	151.50	1.50	QFP	1.40	93	C304021	☐	20-066	low grade		☐	☐	☐
151.50	153.00	1.50	QFP	1.50	100	C304022	☐	20-066	low grade		☐	☐	☐
153.00	153.60	0.60	QFP	0.60	100	C304023	☐	20-066	low grade		☐	☐	☐
153.60	154.40	0.80	QFP	0.80	100	C304024	☐	20-066	low grade		☐	☐	☐
154.40	155.90	1.50	QFP	1.50	100	C304025	☐	20-066	low grade		☐	☐	☐
155.90	157.50	1.60	GRD	1.42	89	C304026	☐	20-066	low grade		☐	☐	☐
157.50	159.00	1.50	GRD	1.50	100	C304027	☐	20-066	low grade		☐	☐	☐
159.00	160.00	1.00	GRD	1.00	100	C304028	☐	20-066	low grade		☐	☐	☐
160.00	160.50	0.50	GRD	0.48	96	B700772	☐	20-036	High Grade		☐	☐	☐
160.50	162.00	1.50	GRD	1.50	100	C304029	☐	20-066	low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
162.00	163.50	1.50	GRD	1.50	100	C304030	☐	20-066	low grade		☐	☐	☐
163.50	164.30	0.80	GRD	0.80	100	C304031	☐	20-066	low grade		☐	☐	☐
164.30	165.00	0.70	GRD	0.70	100	C304032	☐	20-066	low grade		☐	☐	☐
164.30	165.00	0.70	GRD	0.70	100	C304033	☐	20-066	low grade		☐	☐	☑
165.00	166.50	1.50	GRD	1.39	93	C304034	☐	20-066	low grade		☐	☐	☐
166.50	167.54	1.04	GRD	1.04	100	C304035	☐	20-066	low grade		☐	☐	☐
167.54	168.90	1.36	GRD	1.17	86	C304036	☐	20-066	low grade		☐	☐	☐
168.90	169.40	0.50	GRD	0.50	100	C304037	☐	20-067	Low Grade		☐	☐	☐
169.40	171.10	1.70	GRD, QFP	1.50	88	C304038	☐	20-067	Low Grade		☐	☐	☐
171.10	171.80	0.70	GRD	0.68	97	C304039	☐	20-067	Low Grade		☐	☐	☐
171.80	173.00	1.20	GRD	1.20	100	C304040	☐	20-067	Low Grade		☐	☐	☐
173.00	174.50	1.50	GRD	1.50	100	C304041	☐	20-067	Low Grade		☐	☐	☐
174.50	175.65	1.15	GRD	1.15	100	C304043	☐	20-067	Low Grade		☐	☐	☐
175.65	176.15	0.50	GRD	0.50	100	C304044	☐	20-067	Low Grade		☐	☐	☐
176.15	177.65	1.50	GRD	1.34	89	C304045	☐	20-067	Low Grade		☐	☐	☐
177.65	178.50	0.85	GRD	0.75	88	C304046	☐	20-067	Low Grade		☐	☐	☐
178.50	180.00	1.50	GRD	1.50	100	C304047	☐	20-067	Low Grade		☐	☐	☐
180.00	181.50	1.50	GRD	1.45	97	C304049	☐	20-067	Low Grade		☐	☐	☐
181.50	183.00	1.50	GRD	1.25	83	C304050	☐	20-067	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
183.00	184.50	1.50	GRD	1.29	86	C304051	☐	20-067	Low Grade		☐	☐	☐
184.50	186.00	1.50	GRD	1.50	100	C304052	☐	20-067	Low Grade		☐	☐	☐
186.00	187.50	1.50	GRD	1.21	81	C304053	☐	20-067	Low Grade		☐	☐	☐
187.50	189.00	1.50	GRD	1.23	82	C304054	☐	20-067	Low Grade		☐	☐	☐
189.00	190.50	1.50	GRD	1.50	100	C304055	☐	20-067	Low Grade		☐	☐	☐
190.50	192.00	1.50	GRD	1.40	93	C304056	☐	20-067	Low Grade		☐	☐	☐
192.00	193.50	1.50	GRD	1.23	82	C304057	☐	20-067	Low Grade		☐	☐	☐
193.50	195.00	1.50	GRD	1.35	90	C304058	☐	20-067	Low Grade		☐	☐	☐
195.00	195.50	0.50	GRD	0.49	98	C304059	☐	20-067	Low Grade		☐	☐	☐
195.50	197.00	1.50	GRD	1.50	100	C304061	☐	20-067	Low Grade		☐	☐	☐
197.00	197.50	0.50	GRD	0.47	94	C304062	☐	20-067	Low Grade		☐	☐	☐
197.00	197.50	0.50	GRD	0.47	94	C304063	☐	20-067	Low Grade		☐	☐	☑
197.50	198.50	1.00	GRD	1.00	100	C304064	☐	20-067	Low Grade		☐	☐	☐
198.50	199.95	1.45	GRD	1.43	99	C304065	☐	20-067	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-066	C304002	0.00	0.00	0.62	220	☐	☐	☐	☑ Klaza2020-A	
20-066	C304008	0.00	0.00	2.84	900	☐	☐	☐	☑ Klaza2020-B	
20-066	C304015	0.00	0.00	0.01	20	☐	☐	☑	☐	
20-067	C304042	0.00	0.00	2.83	530	☐	☐	☐	☑ Klaza2020-B	klaza b
20-067	C304048	0.00	0.00	2.89	490	☐	☐	☐	☑ Klaza2020-B	klaza b
20-067	C304060	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-061	W598823	0.00	0.00	0.63	230	☐	☐	☐	☑ Klaza2020-A	
20-061	W598829	0.00	0.00	2.89	550	☐	☐	☐	☑ Klaza2020-B	
20-061	W598834	0.00	0.00	0.00	40	☐	☐	☑	☐	
20-064	W598861	0.00	0.00	0.65	440	☐	☐	☐	☑ Klaza2020-A	klaza a
20-064	W598866	0.00	0.00	2.91	820	☐	☐	☐	☑ Klaza2020-B	klaza a
20-064	W598889	0.00	0.00	0.00	30	☐	☐	☑	☐	Blank
20-059	W598807	4.20	5.80	0.07	640	☐	☐	☐	☐	
20-059	W598808	5.80	7.00	0.04	270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-059	W598809	7.00	8.00	0.03	710	☐	☐	☐	☐	
20-059	W598810	8.00	9.50	0.03	900	☐	☐	☐	☐	
20-059	W598811	9.50	11.00	0.05	200	☐	☐	☐	☐	
20-059	W598812	11.00	12.50	0.08	90	☐	☐	☐	☐	
20-059	W598813	12.50	13.12	0.13	360	☐	☐	☐	☐	
20-059	W598814	13.12	14.45	0.12	360	☐	☐	☐	☐	
20-059	W598815	14.45	15.30	0.11	80	☐	☐	☐	☐	
20-059	W598816	15.30	16.50	0.09	160	☐	☐	☐	☐	
20-061	W598817	16.50	17.50	0.17	270	☐	☐	☐	☐	
20-061	W598818	17.50	19.00	0.08	680	☐	☐	☐	☐	
20-061	W598819	19.00	20.50	0.04	810	☐	☐	☐	☐	
20-061	W598820	20.50	22.00	0.03	1260	☐	☐	☐	☐	
20-061	W598821	22.00	23.50	0.01	1330	☐	☐	☐	☐	
20-061	W598822	23.50	25.00	0.01	1460	☐	☐	☐	☐	
20-061	W598824	25.00	26.50	0.02	990	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-061	W598825	26.50	28.00	0.01	1200	☐	☐	☐	☐	
20-061	W598826	28.00	29.50	0.05	940	☐	☐	☐	☐	
20-061	W598827	29.50	31.00	0.03	970	☐	☐	☐	☐	
20-061	W598828	31.00	32.50	0.01	1050	☐	☐	☐	☐	
20-061	W598830	32.50	34.00	0.01	990	☐	☐	☐	☐	
20-061	W598831	34.00	34.50	0.01	540	☐	☐	☐	☐	
20-061	W598832	34.50	35.50	0.01	780	☐	☐	☐	☐	
20-061	W598833	35.50	37.00	0.01	570	☐	☐	☐	☐	
20-061	W598835	37.00	38.50	0.01	1100	☐	☐	☐	☐	
20-061	W598836	38.50	40.00	0.02	1060	☐	☐	☐	☐	
20-061	W598837	40.00	41.50	0.03	1050	☐	☐	☐	☐	
20-061	W598838	41.50	42.45	0.06	610	☐	☐	☐	☐	
20-061	W598839	42.45	43.00	0.19	1100	☐	☐	☐	☐	
20-061	W598840	43.00	44.50	0.03	1030	☐	☐	☐	☐	
20-061	W598841	43.00	44.50	0.03	1240	☐	☑	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-061	W598842	44.50	46.00	0.02	810	☐	☐	☐	☐	
20-061	W598843	46.00	47.50	0.09	540	☐	☐	☐	☐	
20-061	W598844	47.50	49.00	0.07	720	☐	☐	☐	☐	
20-061	W598845	49.00	50.50	0.11	880	☐	☐	☐	☐	
20-061	W598846	50.50	52.00	0.03	2200	☐	☐	☐	☐	
20-061	W598847	52.00	53.50	0.01	1120	☐	☐	☐	☐	
20-061	W598848	53.50	55.00	0.01	1610	☐	☐	☐	☐	
20-061	W598849	55.00	56.50	0.01	1550	☐	☐	☐	☐	
20-061	W598850	56.50	58.00	0.01	1330	☐	☐	☐	☐	
20-061	W598851	58.00	59.50	0.01	1660	☐	☐	☐	☐	
20-061	W598852	59.50	61.00	0.01	1490	☐	☐	☐	☐	
20-061	W598853	61.00	62.50	0.15	310	☐	☐	☐	☐	
20-061	W598854	61.00	62.50	0.28	430	☑	☐	☐	☐	quarter dup
20-061	W598855	62.50	64.00	0.04	290	☐	☐	☐	☐	
20-061	W598856	64.00	65.50	0.01	160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-064	W598857	65.50	67.00	0.01	200	☐	☐	☐	☐	
20-064	W598858	67.00	68.50	0.04	960	☐	☐	☐	☐	
20-064	W598859	68.50	70.00	0.04	940	☐	☐	☐	☐	
20-064	W598860	70.00	71.50	0.08	1190	☐	☐	☐	☐	
20-064	W598862	71.50	73.00	0.01	2150	☐	☐	☐	☐	
20-064	W598863	73.00	74.50	0.02	1240	☐	☐	☐	☐	
20-064	W598864	74.50	75.00	0.02	1190	☐	☐	☐	☐	
20-064	W598865	75.00	76.00	0.02	100	☐	☐	☐	☐	
20-064	W598867	76.00	77.50	0.02	240	☐	☐	☐	☐	
20-064	W598868	77.50	79.00	0.03	450	☐	☐	☐	☐	
20-064	W598869	79.00	80.50	0.06	790	☐	☐	☐	☐	
20-064	W598870	80.50	82.00	0.02	660	☐	☐	☐	☐	
20-064	W598871	82.00	83.50	0.03	2270	☐	☐	☐	☐	
20-064	W598872	83.50	85.00	0.05	1550	☐	☐	☐	☐	
20-064	W598873	85.00	86.50	0.04	1900	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-064	W598874	86.50	88.00	0.06	1620	☐	☐	☐	☐	
20-064	W598875	88.00	89.50	0.01	1290	☐	☐	☐	☐	
20-064	W598876	89.50	91.00	0.01	2520	☐	☐	☐	☐	
20-064	W598877	91.00	92.50	0.01	2010	☐	☐	☐	☐	
20-064	W598878	92.50	94.00	0.01	1970	☐	☐	☐	☐	
20-064	W598879	94.00	95.50	0.01	1980	☐	☐	☐	☐	
20-064	W598880	95.50	97.00	0.01	1960	☐	☐	☐	☐	
20-064	W598881	97.00	98.50	0.01	650	☐	☐	☐	☐	
20-064	W598882	98.50	100.00	0.01	1890	☐	☐	☐	☐	
20-064	W598883	100.00	101.50	0.01	990	☐	☐	☐	☐	
20-064	W598884	101.50	103.00	0.02	580	☐	☐	☐	☐	
20-064	W598885	103.00	104.24	0.03	640	☐	☐	☐	☐	
20-064	W598886	107.60	108.20	0.05	580	☐	☐	☐	☐	
20-064	W598887	108.80	110.00	0.12	600	☐	☐	☐	☐	
20-064	W598888	110.00	111.50	0.01	390	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-064	W598890	111.50	113.00	0.01	790	☐	☐	☐	☐	
20-064	W598891	111.50	113.00	0.01	790	☐	☑	☐	☐	Coarse Duplicate Reject
20-064	W598892	113.00	114.50	0.01	1810	☐	☐	☐	☐	
20-064	W598893	114.50	116.00	0.02	1590	☐	☐	☐	☐	
20-064	W598894	116.00	117.35	0.01	1540	☐	☐	☐	☐	
20-064	W598895	116.00	117.35	0.01	1260	☑	☐	☐	☐	1/4 duplicate
20-064	W598896	117.85	119.00	0.01	900	☐	☐	☐	☐	
20-066	W598897	119.00	120.50	0.01	1100	☐	☐	☐	☐	
20-066	W598898	120.50	121.50	0.01	890	☐	☐	☐	☐	
20-066	W598899	121.50	123.00	0.00	540	☐	☐	☐	☐	
20-066	W598900	123.00	124.00	0.02	450	☐	☐	☐	☐	
20-036	B700768	124.00	124.50	1.57	300	☐	☐	☐	☐	HG
20-066	C304001	124.50	126.00	0.03	340	☐	☐	☐	☐	
20-066	C304003	126.00	127.35	0.00	230	☐	☐	☐	☐	
20-036	B700769	127.35	128.00	1.37	600	☐	☐	☐	☐	HG

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-066	C304004	128.00	129.50	0.11	930	☐	☐	☐	☐	
20-066	C304005	129.50	131.00	0.01	1300	☐	☐	☐	☐	
20-066	C304006	131.00	132.50	0.01	1480	☐	☐	☐	☐	
20-066	C304007	132.50	134.00	0.06	680	☐	☐	☐	☐	
20-066	C304009	134.00	135.50	0.02	430	☐	☐	☐	☐	
20-066	C304010	135.50	136.55	0.02	450	☐	☐	☐	☐	
20-066	C304011	136.55	138.00	0.03	630	☐	☐	☐	☐	
20-066	C304012	138.00	139.50	0.01	1130	☐	☐	☐	☐	
20-066	C304013	139.50	141.00	0.01	780	☐	☐	☐	☐	
20-066	C304014	141.00	142.50	0.02	570	☐	☐	☐	☐	
20-066	C304016	142.50	143.87	0.03	450	☐	☐	☐	☐	
20-036	B700770	143.87	145.00	0.54	330	☐	☐	☐	☐	HG
20-036	B700771	145.00	146.00	0.35	330	☐	☐	☐	☐	HG
20-066	C304017	146.00	147.00	0.11	590	☐	☐	☐	☐	
20-066	C304018	147.00	148.50	0.01	700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-066	C304019	148.50	150.00	0.02	930	☐	☐	☐	☐	
20-066	C304020	148.50	150.00	0.02	1010	☑	☐	☐	☐	1/4 duplicate
20-066	C304021	150.00	151.50	0.01	1490	☐	☐	☐	☐	
20-066	C304022	151.50	153.00	0.01	1340	☐	☐	☐	☐	
20-066	C304023	153.00	153.60	0.11	640	☐	☐	☐	☐	
20-066	C304024	153.60	154.40	0.10	880	☐	☐	☐	☐	
20-066	C304025	154.40	155.90	0.02	1110	☐	☐	☐	☐	
20-066	C304026	155.90	157.50	0.05	1440	☐	☐	☐	☐	
20-066	C304027	157.50	159.00	0.02	1090	☐	☐	☐	☐	
20-066	C304028	159.00	160.00	0.17	1350	☐	☐	☐	☐	
20-036	B700772	160.00	160.50	0.05	710	☐	☐	☐	☐	HG
20-066	C304029	160.50	162.00	0.01	1020	☐	☐	☐	☐	
20-066	C304030	162.00	163.50	0.01	1320	☐	☐	☐	☐	
20-066	C304031	163.50	164.30	0.01	860	☐	☐	☐	☐	
20-066	C304032	164.30	165.00	0.34	470	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-066	C304033	164.30	165.00	0.31	390	☐	☑	☐	☐	Coarse reject duplicate
20-066	C304034	165.00	166.50	0.01	450	☐	☐	☐	☐	
20-066	C304035	166.50	167.54	0.02	580	☐	☐	☐	☐	
20-066	C304036	167.54	168.90	0.35	470	☐	☐	☐	☐	
20-067	C304037	168.90	169.40	2.56	30	☐	☐	☐	☐	
20-067	C304038	169.40	171.10	0.04	760	☐	☐	☐	☐	
20-067	C304039	171.10	171.80	0.09	370	☐	☐	☐	☐	
20-067	C304040	171.80	173.00	0.02	690	☐	☐	☐	☐	
20-067	C304041	173.00	174.50	0.01	790	☐	☐	☐	☐	
20-067	C304043	174.50	175.65	0.01	780	☐	☐	☐	☐	
20-067	C304044	175.65	176.15	0.04	1000	☐	☐	☐	☐	
20-067	C304045	176.15	177.65	0.02	670	☐	☐	☐	☐	
20-067	C304046	177.65	178.50	0.41	190	☐	☐	☐	☐	
20-067	C304047	178.50	180.00	0.07	770	☐	☐	☐	☐	
20-067	C304049	180.00	181.50	0.04	910	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-067	C304050	181.50	183.00	0.01	940	☐	☐	☐	☐	
20-067	C304051	183.00	184.50	0.02	770	☐	☐	☐	☐	
20-067	C304052	184.50	186.00	0.02	1450	☐	☐	☐	☐	
20-067	C304053	186.00	187.50	0.03	170	☐	☐	☐	☐	
20-067	C304054	187.50	189.00	0.04	160	☐	☐	☐	☐	
20-067	C304055	189.00	190.50	0.02	1040	☐	☐	☐	☐	
20-067	C304056	190.50	192.00	0.03	1240	☐	☐	☐	☐	
20-067	C304057	192.00	193.50	0.02	1210	☐	☐	☐	☐	
20-067	C304058	193.50	195.00	0.02	850	☐	☐	☐	☐	
20-067	C304059	195.00	195.50	0.07	220	☐	☐	☐	☐	
20-067	C304061	195.50	197.00	0.03	660	☐	☐	☐	☐	
20-067	C304062	197.00	197.50	0.02	480	☐	☐	☐	☐	
20-067	C304063	197.00	197.50	0.01	520	☐	☑	☐	☐	coarse rej
20-067	C304064	197.50	198.50	0.01	640	☐	☐	☐	☐	
20-067	C304065	198.50	199.95	0.01	1090	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
8.75	8.80	BN		58	NUL	1	band of hematite alteration			
16.90	16.91	SH	81	30	NUL	1	shear of darker grey gouge in interrval of strained clay altered GRD			
17.00	21.00	SH	81	56	NUL	5	shears in strained clay altered grd			
	21.00	SH	81	46	NUL	5	shears of darker gougey texture in strained clay altered GRD			
24.50	26.50	FR	5	35	NUL	6	fracture set			
34.20	34.22	BN		40	NUL	1	band of py with hematite alteration staineind in small halo . Crumbled.			
								Py	60	---
36.25	36.27	VT	37	45	NUL	1	small qtz py vein			
								Py	15	---
42.80	4.29	SH	81	50	NUL	1	sheared with crumbled py			
								Py	15	---
52.15	57.00	SH	81	20	NUL	5	low angle shears in intensely clay altered med-coarse grained GRD			
113.50	113.51	SH	81	70	NUL	1	grey shear in faulted interval			
124.20	124.25	VT	37	30	NUL	1	Brecciated py-qtz veinlet			
								Py	20	---
127.40	127.75	VN	37	30	NUL	1	bnded qtz carbonate with Ja, minor py and trace sphal			
								Ja	2	---
								Py	2	---
								Sp	1	---
136.10	136.11	SH	81	34	NUL	1	shear in fractured dyke			
144.03	144.04	VT	37	40	NUL	1	py vein, possibly trace cpy			
								Py	95	MA
								Cp	2	---
153.80	153.81	VT	37	50	NUL	1	py veinlet			
								Py	50	---
160.20	160.40	VB	37	60	NUL	1	brecciated carbonate quartz vein, intermixed with clasts of altered GRD			
								Py	4	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
164.50	164.51	VT	37	45	NUL	1	small qtz py veinlet			
								Py	20	---
175.70	175.72	VT	37	20	NUL	1	pink/cream carbonate veinlet, no other sulphides observed			
195.50	195.52	VT	37	33	NUL	1	qtz carbaonte veinlet, grey quartz, other mineralized clasts around			
								Py	40	---
195.90	195.91	SH	81	30	NUL	1	grey shear in intensely clay altered strained medium grained granodiorite			
197.40	197.42	VT	37	29	NUL	1	qtz carbaonte veinlet with py, qtz smokey grey			

Klaza - Klaza Project

Archer,Cathro & Associates (1981) Limited

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		384513	6888170	1234	197.21

ZONE: Exploration

SECTION:

HOLE: KL -20-489

CLAIM: YA86343

Contractor: Kluane Drilling

Drill: 1

Core Size: HTW

Casing Depth: 13.72m, Out

Drilling Dates: Oct 11 - Oct 15, 2020

Geology Logged By: E. Hall

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Exploration

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	5.1	5.1	CAS
5.1	5.79	0.69	OVB
5.79	16.76	10.97	GRD
16.76	17.3	0.54	GRD
17.3	23.35	6.05	GRD
23.35	30	6.65	GRD
30	32	2	GRD
32	36.05	4.05	QFP
36.05	40.84	4.79	GRD
40.84	64.05	23.21	GRD
64.05	103.32	39.27	GRD
103.32	106.05	2.73	QFP
106.05	108.28	2.23	GRD
108.28	128	19.72	GRD
128	145	17	GRD
145	163	18	GRD

SAMPLES	
Numbers:	B700778 to B700783, C304066 to C304220
Total:	161
Batch:	036, 067, 070, 071, 072, 073, 075
Certificates:	WH20238418, WH20238419, WH20238431, WH20240084, WH20240090, WH20240095, WH20245439

COMMENTS

Etzel exploration hole #5.
Handheld GPS accuracy of 1.9m

163	197.21	34.21	GRD

Box Log

KL -20-489

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	5.1	10
2	10	12.45
3	12.45	15
4	15	18.04
5	18.04	20.5
6	20.5	23.31
7	23.31	26.03
8	26.03	27.78
9	27.78	31.66
10	31.66	34.53
11	34.53	37.77
12	37.77	41.23
13	41.23	44.2
14	44.2	47.44
15	47.44	50.05
16	50.05	52.86
17	52.86	55.63
18	55.63	58.23
19	58.23	61
20	61	64.01
21	64.01	66.69
22	66.69	69.53
23	69.53	71.97
24	71.97	74.68
25	74.68	76.92
26	76.92	79.4
27	79.4	81.82
28	81.82	84.73
29	84.73	87.44
30	87.44	90.27
31	90.27	92.93
32	92.93	95.63
33	95.63	98.19
34	98.19	101.03
35	101.03	104.14
36	104.14	107.03
37	107.03	110.07
38	110.07	113.09
39	113.09	115.93
40	115.93	118.36
41	118.36	120.7
42	120.7	123.56
43	123.56	126.49
44	126.49	129.3
45	129.3	132.33
46	132.33	135.32
47	135.32	137.99
48	137.99	140.98
49	140.98	143.6
50	143.6	146.32
51	146.32	149.09
52	149.09	152.07
53	152.07	155.04
54	155.04	157.72
55	157.72	160.07
56	160.07	163.07
57	163.07	165.4
58	165.4	168.01
59	168.01	170.69
60	170.69	174.3
61	174.3	178.7
62	178.7	182.51
63	182.51	186.91
64	186.91	190.95
65	190.95	195.01
66	195.01	197.21

Hole Name

Hole Name	From (m)	Length (m)	Core Size	Rock Type	Weight in Air (g)	Weight in Water (g)	Density (g/cm3)	Specific Gravity	Comments
KL -20-489									
	83	13	HTW	GRD	1731.9	1180.8	3.46	3.1	Medium to light grey, medium grained, silica flooded granodiorite with 5cm quartz vein containing 30% blebby pyrite.
	109.26	15	HTW	GRD	1672.3	1074.1	2.9	2.8	Dark green medium grained granodiorite with moderate chl-ep alteration. Crosscutting perpendicular 1mm py-cb stringers with black chl-bt selvages.
	121.97	12.5	HTW	GRD	1280.1	820.1	2.66	2.8	dark green medium grained granodiorite with pyrite and calcite on fracture surface. Minor calcite + pyrite stringer veins within
	139.99	14	HTW	GRD	1671.7	1084.8	3.1	2.9	Dark green medium grained granodiorite with 8% disseminated and blebby py 1-2mm.
	174.81	15	NTW	GRD	990.1	625.5	2.33	2.7	Dark green coarse grained, moderately chl-ep altered granodiorite with 10% disseminated pyrite 1-2mm.
	191.38	15	NTW	GRD	1012.1	640.7	2.39	2.7	Medium grey medium to coarse grained granodiorite with moderate to strong silica bleaching and 2% disseminated pie.

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.10	5.10	CAS	--	casing							
5.10	5.79	0.69	OVB	--	overburden							
5.79	16.76	10.97	GRD	MG	Light green grey clay altereed medium grained GRD. Fractured and broken throughout.							
						LT	GY	FR	CHL	2I		
						LT	GN	CR	CLY	5I	Py	1.5
16.76	17.30	0.54	GRD	--	faulted granodiorite. Medium grey with disseminated Py throughout. Gougey							
						MD	GY	SH	CLY	4I	Py	2
								ST				
17.30	23.35	6.05	GRD	MG	Strongly clay altered medium grained GRD, cut by common fine qtz veinlets, often with Py. Patchy moderate hematite alteration. Intervals of rubbly fractured strongly clay altered rock. Common qtz-Py veinlets up to 1.5cm wide cutting through at 50-65 deg tca.							
						MD	GY		CHL	2I		
						LT	GY	CR	CLY	5I	Py	1.5
									HEM	2I		
									ARG	3I		
23.35	24.20	0.85	GRD	MG	faulted GRD							
24.20	24.28	0.08	MX	--	Crumbed Py in strained and sheared GRD							
24.28	25.30	1.02	GRD	MG	faulted and altered GRD							
25.30	25.91	0.61	MX	--	sheared and strained and py rich interval, crumbly.							
25.91	27.70	1.79	GRD	MG	faulted and altered GRD							
27.70	27.75	0.05	VEN	--	2cm massive py vein at 45 deg tca							
27.75	29.00	1.25	GRD	MG	faulted and altered GRD							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
29.00	29.25	0.25	MX	--	Massive Py, sheared and strained, gouge, covered by thick drillers slime.							
29.25	30.00	0.75	GRD	MG	faulted and altered GRD							
30.00	32.00	2.00	GRD	MG	intensely clay altered and fractured medium grained GRD. Minor small mm scale qtz veins with Py							
32.00	34.53	2.53	QFP	FG	same as general lith							
34.53	36.05	1.52	QFP	FG	faulted dyke, intensely clay altered, clasts of vein material, including Cpy in rubbly gouge.							
											Cp	0.5
36.05	40.84	4.79	GRD	MG	intensely faulted and strained and clay altered medium grained GRD. Minor disseminated Py and trace Cpy.							
40.84	64.05	23.21	GRD	--	Fine grained QFP dyke. Light buff green grey. Cut by minor mm scale crey chalcedonic Qtz veinlets. Crackled and broken, clay infill in fractures. Moderately greenish clay alteration of feldspars.							
						LT	BF	PO				
						LT	GY	CR	CLY	4I		
						LT	GN					
64.05	65.40	1.35	GRD	MG	Pervaisvely clay altered medium grained GRD.							
65.40	65.53	0.13	VEN	--	dominantly py vein, some grey quartz. ~4cm true width.							
											Py	20
65.53	68.30	2.77	MX	MG	vien zone of low angle quartz veins containing py and trace Cpy/Bn.							
											Cp	0.5
											Bo	0.5
											Py	4
68.30	80.95	12.65	GRD	MG	Pervaisvely clay altered medium grained GRD. Small stingers of qtz-py							
80.95	81.30	0.35	VEN	--	small ~1cm true width at low angle to core axis. Veinelt contains ~3% Mo and minor Py							
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Mo	1
81.30	82.95	1.65	GRD	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.							
82.95	83.05	0.10	VEN	--	Qtz Py vein with 20% Py and trace Cpy. 20 deg tca. Treu width 5cm							
											Cp	1
											Py	20
83.05	85.45	2.40	GRD	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.							
85.45	86.60	1.15	MX	MG	Interval of multiple Qtz Py veins 1-3cm wide, with Py, Mo in Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.							
											Py	3
											Mo	1
86.60	99.50	12.90	GRD	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.							
99.50	100.50	1.00	VEN	--	Qtz py vein, 4cm true width, low angle to core axis (10-15 deg). Py and Mo mineralization.							
											Py	7
											Mo	0.5
100.50	101.30	0.80	FLR	--	faulted medium grained GRD, white clay altered.							
101.30	103.32	2.02	GRD	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica and hematite alteration.							
103.32	106.05	2.73	QFP	FG	Fine grained phenocryst poor green buff felsic QFP dyke. Crackled and strained, pervasive moderate to stongly clay altered.							
106.05	106.35	0.30	VEN	--	30cm of mineralized and highly fractured grey qtz carbonate veining at contact with dyke above, containing Py and minor Sphal.							
								CR			Py	20
											Sp	1
106.35	108.28	1.93	GRD	MG	Medium grained GRD. Clay altered with weak patchy hematite alteration. Minor Py in small stingers.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
108.28	128.00	19.72	GRD	FG	Fine grained GRD, fine grained and pervasively moderately chlorite altered. Atchy epidote alteration. Minor clay-carboante infill in fractures. Locally Rubbly and broken. Small stringers of Qtz-Cal-Py-Chl cutting through, often with narrow chlorite alteration halos. Some larger veinlets (ex: 120.3m) with vein hosted Py and magnetite.							
						MD	GN	FR	CHL	4I	Py	0.5
						MD	GY		SIL	2I	Mg	0.1
									CLY	1I		
									CLY	2I		
128.00	138.50	10.50	GRD	FG	Mottled fine and medium grianed GRD. Patchy mottled clay and chlorite altered intervals. Cut by somewhat common veinlets containing Py and Cpy, possibly Mo. Narrow alteration halos around small stringers, sometimes clay alteration, silica, or chlorite. Three ~6cm qtz veins with minor Py at 131.8, 132.3, and 133.1m, all at ~50 deg tca. Common other smaller veinlets with clay-silica alteration halos containing Py and minnor Cpy common.							
						MD	GN		SIL	3I	Cp	0.5
						LT	GY	MO	CLY	3I	Py	2
									CHL	3I		
									SER	2I		
138.50	145.00	6.50	GRD	FG	Clay alteration less pervasive than rocks above, becoming more strained with crackled textures starting to occur around small strained veinlets							
						MD	GN					
						LT	GY					
145.00	163.00	18.00	GRD	MG	Medium grained GRD. Pervasively moderate clay altereration of feldspars. Biotite often altered to sericite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration							
						MD	GY	FR	SIL	3I		
						LT	GY	PA	CLY	3I	Py	1.5
						LT	RD		HEM	2I		
						LT	GN		SER	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
163.00	172.75	9.75	GRD	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.							
						MD	GY	PA	CLY	3I	Py	1
						LT	GN	FR	HEM	2I		
						LT	RD		SER	1I		
						LT	GY		CHL	3I		
172.75	173.00	0.25	VEN	--	Brecciated pink carbaonte and quartz vien, fractured with py							
											Py	6
173.00	178.70	5.70	GRD	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.							
											Py	1
178.70	179.15	0.45	VEN	--	Fractured Qtz vein with a few % Py and some smoky dark quartz							
											Py	4
179.15	182.51	3.36	GRD	MG	Medium grained GRD. Broken. Pervasive moderate clay altereration. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Patchy hematite alteration. Minor disseminated Py throughout.							
											Py	2
182.51	195.00	12.49	GRD	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.							
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
195.00	197.21	2.21	GRD	MG	Fractured and intensly clay-silica altered medium grianed granodiorite cut by common stringers and shears with Py, possible Mo. Disseminated Py throughout							
											Mo	0.1
											Py	2
											Py	1

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
0.00	5.10	5.10	CAS	OVB	--	casing
5.10	5.79	0.69	OVB	OVB	--	overburden
5.79	16.76	10.97	GRD	GRDA	MG	Light green grey clay altereed medium grained GRD. Fractured and broken throughout.
16.76	17.30	0.54	GRD	GRDF	--	faulted granodiorite. Medium grey with disseminated Py throughout. Gougey
17.30	23.35	6.05	GRD	GRDA	MG	Strongly clay altered medium grained GRD, cut by common fine qtz veinlets, often with Py. Patchy moderate hematite alteration. Intervals of rubbly fractured strongly clay altered rock. Common qtz-Py veinlets up to 1.5cm wide cutting through at 50-65 deg tca.
23.35	24.20	0.85	GRD	FLTM	MG	faulted GRD
24.20	24.28	0.08	MX	FLTM	--	Crumbed Py in strained and sheared GRD
24.28	25.30	1.02	GRD	FLTM	MG	faulted and altered GRD
25.30	25.91	0.61	MX	FLTM	--	sheared and strained and py rich interval, crumbly.
25.91	27.70	1.79	GRD	FLTM	MG	faulted and altered GRD
27.70	27.75	0.05	VEN	FLTM	--	2cm massive py vein at 45 deg tca
27.75	29.00	1.25	GRD	FLTM	MG	faulted and altered GRD
29.00	29.25	0.25	MX	FLTM	--	Massive Py, sheared and strained, gouge, covered by thick drillers slime.
29.25	30.00	0.75	GRD	FLTM	MG	faulted and altered GRD
30.00	32.00	2.00	GRD	GRDA	MG	intensely clay altered and fractured medium grained GRD. Minor small mm scale qtz veins with Py
32.00	34.53	2.53	QFP	DYK	FG	same as general lith
34.53	36.05	1.52	QFP	DYK	FG	faulted dyke, intensely clay altered, clasts of vein material, including Cpy in rubbly gouge.
36.05	40.84	4.79	GRD	GRDA	MG	intensely faulted and strained and clay altered medium grained GRD. Minor disseminated Py and trace Cpy.
40.84	64.05	23.21	GRD	DYK	--	Fine grained QFP dyke. Light buff green grey. Cut by minor mm scale crey chalcedonic Qtz veinlets. Crackled and broken, clay infill in fractures. Moderately greenish clay alteration of feldspars.
64.05	65.40	1.35	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD.
65.40	65.53	0.13	VEN	GRDA	--	dominantly py vein, some grey quartz. ~4cm true width.
65.53	68.30	2.77	MX	GRDA	MG	vien zone of low angle quartz veins containing py and trace Cpy/Bn.

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
68.30	80.95	12.65	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD. Small stingers of qtz-py
80.95	81.30	0.35	VEN	GRDA	--	small ~1cm true width at low angle to core axis. Veinelt contains ~3% Mo and minor Py
81.30	82.95	1.65	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.
82.95	83.05	0.10	VEN	GRDA	--	Qtz Py vein with 20% Py and trace Cpy. 20 deg tca. Treu width 5cm
83.05	85.45	2.40	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.
85.45	86.60	1.15	MX	GRDA	MG	Interval of multiple Qtz Py veins 1-3cm wide, with Py, Mo in Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.
86.60	99.50	12.90	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica alteration.
99.50	100.50	1.00	VEN	GRDA	--	Qtz py vein, 4cm true width, low angle to core axis (10-15 deg). Py and Mo mineralization.
100.50	101.30	0.80	FLR	GRDA	--	faulted medium grained GRD, white clay altered.
101.30	103.32	2.02	GRD	GRDA	MG	Pervaisvely clay altered medium grained GRD. Small qtz py stringers. Patchy silica and hematite alteration.
103.32	106.05	2.73	QFP	DYK	FG	Fine grained phenocryst poor green buff felsic QFP dyke. Crackled and strained, pervasive moderate to stongly clay altered.
106.05	106.35	0.30	VEN	GRDA	--	30cm of mineralized and highly fractured grey qtz carbonate veining at contact with dyke above, containing Py and minor Sphal.
106.35	108.28	1.93	GRD	GRDA	MG	Medium grained GRD. Clay altered with weak patchy hematite alteration. Minor Py in small stingers.
108.28	128.00	19.72	GRD	GRD	FG	Fine grained GRD, fine grained and pervasively moderately chlorite altered. Atchy epidote alteration. Minor clay-carboante infill in fractures. Locally Rubbly and broken. Small stringers of Qtz-Cal-Py-Chl cutting through, often with narrow chlorite alteration halos. Some larger veinlets (ex: 120.3m) with vein hosted Py and magnetite.
128.00	138.50	10.50	GRD	GRDA	FG	Mottled fine and medium grianed GRD. Patchy mottled clay and chlorite altered intervals. Cut by somewhat common veinlets containing Py and Cpy, possibly Mo. Narrow alteration halos around small stringers, sometimes clay alteration, silica, or chlorite. Three ~6cm qtz veins with minor Py at 131.8, 132.3, and 133.1m, all at ~50 deg tca. Common other smaller veinlets with clay-silica alteration halos containing Py and minnor Cpy common.
138.50	145.00	6.50	GRD	GRDA	FG	Clay alteration less pervasive than rocks above, becoming more strained with crackled textures starting to occur around small strained veinlets
145.00	163.00	18.00	GRD	GRDA	MG	Medium grained GRD. Pervasively moderate clay altereration of feldspars. Biotite often altered to sericite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration

From (m)	To (m)	Interval (m)	Rock Type	Unit Type	Grain Size	Description
163.00	172.75	9.75	GRD	GRDA	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.
172.75	173.00	0.25	VEN	GRDA	--	Brecciated pink carbaonte and quartz vien, fractured with py
173.00	178.70	5.70	GRD	GRDA	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.
178.70	179.15	0.45	VEN	GRDA	--	Fractured Qtz vein with a few % Py and some smoky dark quartz
179.15	182.51	3.36	GRD	GRDA	MG	Medium grained GRD. Broken. Pervasive moderate clay altereration. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Patchy hematite alteration. Minor disseminated Py throughout.
182.51	195.00	12.49	GRD	GRDA	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout.
195.00	197.21	2.21	GRD	GRDA	MG	Fractured and intensly clay-silica altered medium grianed granodiorite cut by common stringers and shears with Py, possible Mo. Disseminated Py throughout

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	5.10	5.10	CAS	--	casing							
5.10	5.79	0.69	OVB	--	overburden							
5.79	16.76	10.97	GRD	MG	Light green grey clay altereed medium grained GRD. Fractured and broken throughout.							
						LT	GN	CR	CLY	5I	Py	1.5
						LT	GY	FR	CHL	2I		
16.76	17.30	0.54	GRD	--	faulted granodiorite. Medium grey with disseminated Py throughout. Gougey							
						MD	GY	SH	CLY	4I	Py	2
								ST				
17.30	23.35	6.05	GRD	MG	Strongly clay altered medium grained GRD, cut by common fine qtz veinlets, often with Py. Patchy moderate hematite alteration. Intervals of rubbly fractured strongly clay altered rock. Common qtz-Py veinlets up to 1.5cm wide cutting through at 50-65 deg tca.							
						MD	GY		CHL	2I		
									HEM	2I		
						LT	GY	CR	CLY	5I	Py	1.5
									ARG	3I		
23.35	30.00	6.65	GRD	--	Intervals of intensely clay altered faulted GRD and gouge with disseminated Py. Veins of Py at 45 degrees to core axis. No other sulphides observed. Py veins massive with minor quartz but intensely fractured and crumbly.							
						MD	GY	CR	CLY	5I	Py	3
						LT	GY	FR				
								ST				
30.00	32.00	2.00	GRD	MG	intensely clay altered and fractured medium grained GRD. Minor small mm scale qtz veins with Py							
32.00	36.05	4.05	QFP	FG	Fractured and moderate to strongly clay altered phenocryst poor QFP dyke. Broken and locally faulted. Faulted dyke is sometimes mineralized.							
						LT	GY	PO	CLY	4I	Py	0.5
						MD	GN				Cp	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.05	40.84	4.79	GRD	MG	intensely faulted and strained and clay altered medium grained GRD. Minor disseminated Py and trace Cpy.							
40.84	64.05	23.21	GRD	FG	Fine grained QFP dyke. Light buff green grey. Cut by minor mm scale crey chalcedonic qtz veinlets. Crackled and broken, clay infill in fractures							
						LT	GN					
						LT	BF	CR				
						LT	GY	PO	CLY	4I		
64.05	103.32	39.27	GRD	MG	Pervaisvely clay altered medium grained GRD. Veins up to 5cm wide with light grey quartz and Py, minor Cpy and trace Mo, possible Bn. Veins broken out in detailed lith.							
									CHL	2I	Bo	0.1
						LT	GY	FR	CLY	4I	Py	1
						LT	PK		SIL	1I	Mo	0.1
						MD	GY		HEM	2I	Cp	0.1
103.32	106.05	2.73	QFP	FG	Fine grained phenocryst poor green buff felsic QFP dyke. Crackled and strained, pervasive moderate to stongly clay altered.							
106.05	108.28	2.23	GRD	MG	Medium grained GRD. Clay altered with weak patchy hematite alteration. Minor Py in small stingers. 15cm of mineralized and highly fractured grey qtz carbonate veining at contact with dyke above, containing Py and minor Sphal.							
						LT	GY	FR	CLY	4I	Py	0.5
						LT	GN		HEM	1I		
						LT	BF		SIL	2I		
									CHL	2I		
									SER	2I		
108.28	128.00	19.72	GRD	FG	Fine grained granodiorite/diorite(?). Distinctly different from the clay altered medium grained granodiorite above. Pervasively moderately chlorite altered. Patchy epidote alteration. Minor clay-carboante infill in fractures. Locally Rubbly and broken. Small stringers of Qtz-Cal-Py-Chl cutting through, often with narrow chlorite alteration halos. Some larger veinlets (ex: 120.3m) with vein hosted Py and magnetite.							
						MD	GN	MA	CHL	4I	Py	1
						MD	GY	FR	EP	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
128.00	145.00	17.00	GRD	FG	Mottled fine and medium grianed GRD. Patchy mottled clay and chlorite altered intervals. Cut by somewhat common veinlets containing Py and Cpy, possibly Mo. Narrow alteration halos around small stringers, sometimes clay alteration, silica, or chlorite. Three ~6cm qtz veins with minor Py at 131.8, 132.3, and 133.1m, all at ~50 deg tca. Common other smaller veinlets with clay-silica alteration halos containing Py and minnor Cpy common.							
									SER	2I		
									CHL	3I		
						MD	GN		SIL	3I	Cp	0.5
						LT	GY	MO	CLY	3I	Py	2
145.00	163.00	18.00	GRD	MG	Medium grained GRD. Pervasively moderate clay altereration of feldspars. Biotite often altered to sericite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration							
						LT	GY	FR	CLY	4I	Py	1
									HEM	2I		
						LT	RD		CHL	2I		
						MD	GY	MO	SIL	2I	Mo	0.1
						LT	GN	PA	SER	2I	Sp	0.1
163.00	197.21	34.21	GRD	MG	Medium grained GRD. Pervasive moderate clay-chlorite altereration. Biotite sometimes altered to sericite in more bleached intervals, generally chlorite. Narrow silica alteration halos around small Qtz-Py stringers some times with possible Mo. Core is broken and moderately fractured. Patchy hematite alteration. Minor disseminated Py throughout. Small pink carboante veinlets at 172.2m. Fractured Qtz Py veining at 178.7-179.15m. Brecciated							
						LT	RD		SER	1I		
						MD	GY	FR	CLY	3I	Py	1
						LT	GY	PA	CHL	3I	Mo	0.1
						LT	GN		HEM	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	5.10	5.10	0	0	0.00	0	--	--	--	Top of hole - no core recovered.
5.10	5.79	0.69	0.41	59	0.00	0	--	--	6W	OVB with some minor rubble and soil.
5.79	9.14	3.35	0.95	28	0.00	0	--	--	1W	Decomposed granodiorite with gouge.
9.14	10.67	1.53	0.88	58	0.00	0	--	3H	1W	Faulted and rubbled interval.
10.67	12.19	1.52	0.96	63	0.11	7	--	4H	1W	Faulted and rubbled zone
12.19	13.72	1.53	0.95	62	0.22	14	--	4H	1W	Faulted and rubbled section.
13.72	15.24	1.52	1.15	76	0.25	16	--	4H	1W	Faulted and rubbled section.
15.24	16.76	1.52	1.28	84	0.56	37	--	4H	1W	Brecciated section.
16.76	18.29	1.53	0.91	59	0.00	0	--	2H	1W	Very gougy section with rubbled core inbetween.
18.29	18.90	0.61	0.32	52	0.00	0	--	3H	1W	Rubbled and broken section.
18.90	20.42	1.52	0.88	58	0.00	0	--	2H	1W	Rubbled and weakly brecciated section.
20.42	21.34	0.92	0.61	66	0.00	0	--	4H	1W	Rubbled zone.
21.34	21.95	0.61	0.36	59	0.00	0	--	4H	1W	Brecciated zone with rubble.
21.95	23.47	1.52	1.12	74	0.15	10	--	4H	1W	Rubbled and broken zone.
23.47	24.38	0.91	0.63	69	0.00	0	--	2H	1W	Rubbled and brecciated / gougy section.
24.38	25.91	1.53	1.29	84	0.33	22	--	3H	1W	Gouge / breccia zone.
25.91	27.13	1.22	0.86	70	0.00	0	--	2H	1W	Rubble and breccia zone
27.13	28.65	1.52	1.06	70	0.00	0	--	4H	1W	Rubble and breccia zone.
28.65	30.48	1.83	1.22	67	0.00	0	--	2H	1W	Gouge rich zone with rubble.
30.48	32.00	1.52	0.73	48	0.10	7	--	4H	1W	Rubble zone with minor gouge.
32.00	33.53	1.53	1.33	87	0.35	23	--	4H	1W	Rubbled at the lower contact.
33.53	35.05	1.52	1.37	90	0.14	9	--	4H	1W	Gouge occurring along fracture surfaces as well as large gouge zones at the lower contact.
35.05	36.58	1.53	1.43	93	0.00	0	--	2H	1W	Breccia zone with strong gouge.
36.58	38.10	1.52	1.37	90	0.00	0	--	2H	1W	Breccia and gouge zone.
38.10	39.32	1.22	0.65	53	0.00	0	--	2H	1W	Gouge and rubble.
39.32	40.84	1.52	0.68	45	0.00	0	--	4H	1W	Rubble with minor gouge.
40.84	42.37	1.53	1.29	84	0.00	0	--	2H	1W	Brecciated zone with rubble.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.37	43.89	1.52	1.43	94	0.00	0	--	2H	1W	Brecciated zone
43.89	45.72	1.83	1.25	68	0.00	0	--	2H	1W	Brecciated zone and rubble.
45.72	46.63	0.91	0.66	73	0.00	0	--	3H	1W	Brecciated zone.
46.63	47.85	1.22	1.04	85	0.00	0	--	2H	1W	Brecciated zone
47.85	48.77	0.92	0.68	74	0.00	0	--	2H	1W	Brecciated zone.
48.77	50.29	1.52	1.06	70	0.29	19	--	3H	1W	Rubbled zone.
50.29	51.82	1.53	1.26	82	0.24	16	--	3H	1W	Rubbled zone
51.82	53.34	1.52	1.2	79	0.43	28	--	4H	1W	Rubbled zone.
53.34	54.86	1.52	1.08	71	0.13	9	--	3H	1W	Rubbled section.
54.86	56.39	1.53	1.46	95	0.77	50	--	3H	1W	Brecciated section.
56.39	57.91	1.52	0.93	61	0.00	0	--	4H	1W	Rubble zone
57.91	60.05	2.14	2.01	94	0.15	7	--	3H	1W	
60.05	60.96	0.91	0.87	96	0.00	0	--	3H	1W	Small local fault gouge 1-4cm
60.96	62.46	1.50	1.28	85	0.00	0	--	3H	1W	Local chloritic gouge.
62.46	64.01	1.55	1.44	93	0.65	42	--	3H	1W	
64.01	65.53	1.52	1.42	93	0.40	26	--	3H	1W	
65.53	67.06	1.53	1.5	98	0.55	36	--	3H	1W	Silica flooded granodiorite with blebby/massive py 2-5%
67.06	68.58	1.52	1.5	99	0.71	47	--	3H	1W	
68.58	70.10	1.52	1.5	99	0.32	21	--	3H	1W	
70.10	71.63	1.53	1.46	95	0.13	8	--	3H	1W	
71.63	73.15	1.52	1.3	86	0.30	20	--	3H	1W	
73.15	74.68	1.53	1.43	93	0.43	28	--	3H	1W	
74.68	76.20	1.52	1.44	95	0.20	13	--	3H	1W	Local interval of dark grey gouge in competent granodiorite.
76.20	78.33	2.13	1.45	68	0.71	33	--	3H	1W	Moderately jointed granodiorite.
78.33	79.25	0.92	0.8	87	0.15	16	--	3H	1W	Blocky 3cm-8cm granodiorite.
79.25	80.77	1.52	1.52	100	0.43	28	--	3H	1W	Blocky granodiorite.
80.77	83.21	2.44	2.31	95	0.80	33	--	3H	1W	Blocky granodiorite.
83.21	84.73	1.52	1.31	86	0.66	43	--	3H	1W	Competent granodiorite and gouged intervals.
84.73	85.95	1.22	1.18	97	0.00	0	--	2H	1W	clay altered granodiorite with thin quartz + pyrite vein

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
85.95	86.87	0.92	0.85	92	0.00	0	--	2H	1W	
86.87	88.39	1.52	1.46	96	0.34	22	--	3H	1W	thin pyrite stringers with silica alteration halo and hematite/ possible potassic alteration halo around that. Granodiorite on either side clay and chlorite altered
88.39	89.92	1.53	1.48	97	0.38	25	--	3H	1W	thin pyrite veins with silica alteration haloes around them and hematite staining/ possible potassic alteration in granodiorite
89.92	91.44	1.52	1.48	97	0.00	0	--	3H	1W	hematite stained clay altered medium grained granodiorite. Pyrite and molbydenite in fractured darker grey rubble with minor epidote
91.44	92.35	0.91	0.83	91	0.11	12	--	3H	1W	
92.35	94.49	2.14	2.07	97	0.22	10	--	3H	1W	hematite staining in medium grained granodiorite
94.49	96.01	1.52	1.41	93	0.14	9	--	3H	1W	
96.01	99.06	3.05	3.01	99	0.23	8	--	3H	1W	coarse grained pyrite on fracture surfaces and thin veins of pyrite + quartz in rubble
99.06	100.58	1.52	1.28	84	0.00	0	--	3H	1W	quartz and pyrite veins in rubble, as well as minor hematite staining
100.58	102.11	1.53	1.47	96	0.13	8	--	3H	1W	hematite staining in clay altered granodiorite
102.11	103.63	1.52	1.46	96	0.00	0	--	2H	1W	clay fault gouge
103.63	105.16	1.53	1.34	88	0.00	0	--	2H	1W	clay fault gouge with light greenish grey fine grained sugary felsic dyke within fault zone
105.16	106.68	1.52	1.5	99	0.00	0	--	2H	1W	clay fault gouge with small pyrite + quartz veins in lower part of section
106.68	108.20	1.52	1.46	96	0.32	21	--	3H	1W	clay and hematite alteration
108.20	111.25	3.05	3.01	99	0.62	20	--	3H	1W	magnetic rubble
111.25	112.78	1.53	1.22	80	0.00	0	--	3H	1W	clay altered granodiorite with pyrite on fracture surfaces
112.78	114.30	1.52	1.36	89	0.12	8	--	3H	1W	clay altered fine grained granodiorite
114.30	117.35	3.05	2.98	98	0.30	10	--	4H	1W	fine grained chlorite + epidote altered granodiorite with thin veins of pyrite
117.35	118.57	1.22	1.22	100	1.03	84	--	3H	1W	fine grained granodiorite with local 10cm gouge.

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
118.57	119.48	0.91	0.9	99	0.23	25	--	3H	1W	
119.48	121.01	1.53	1.34	88	0.38	25	--	3H	1W	
121.01	121.92	0.91	0.91	100	0.78	86	--	3H	1W	
121.92	123.44	1.52	1.47	97	1.33	88	--	3H	1W	Competent granodiorite with local light green chlorite gouge at downhole contact.
123.44	124.97	1.53	1.42	93	0.62	41	--	3H	1W	
124.97	126.49	1.52	1.45	95	0.26	17	--	4H	1W	Silica flooded granodiorite.
126.49	128.02	1.53	1.5	98	0.56	37	--	3H	1W	
128.02	129.54	1.52	1.52	100	0.38	25	--	3H	1W	Moderate white clay alteration.
129.54	131.06	1.52	1.52	100	1.43	94	--	3H	1W	
131.06	132.59	1.53	1.53	100	1.49	97	--	4H	1W	Silica flooded granodiorite. 5% blebby py in 5cm quartz veins
132.59	134.11	1.52	1.48	97	0.97	64	--	4H	1W	Silica flooded granodiorite.
134.11	135.64	1.53	1.52	99	0.20	13	--	3H	1W	
135.64	137.16	1.52	1.52	100	0.42	28	--	3H	1W	
137.16	138.68	1.52	1.52	100	1.34	88	--	3H	1W	
138.68	140.21	1.53	1.52	99	1.44	94	--	3H	1W	
140.21	141.73	1.52	1.52	100	1.40	92	--	3H	1W	
141.73	143.26	1.53	1.47	96	0.10	7	--	3H	1W	
143.26	144.78	1.52	1.52	100	0.65	43	--	3H	1W	fractured and gouges interval.
144.78	146.61	1.83	1.52	83	0.00	0	--	3H	1W	Rubble
146.61	147.83	1.22	1.22	100	1.17	96	--	4H	1W	Competent hard granodiorite.
147.83	149.35	1.52	1.52	100	1.12	74	--	3H	1W	
149.35	150.27	0.92	0.82	89	0.40	43	--	2H	1W	Gouge and rubble 50% of interval
150.27	151.79	1.52	1.23	81	0.52	34	--	2H	1W	Competent strong clay altered granodiorite with gouged fault breccia at downhole contact.
151.79	153.31	1.52	1.52	100	0.23	15	--	3H	1W	Clay altered gouge at start of interval. Abundant rubble.
153.31	155.14	1.83	1.52	83	0.44	24	--	3H	1W	Gouge and rubble
155.14	156.36	1.22	1.2	98	0.22	18	--	3H	1W	Gouge and rubble
156.36	156.97	0.61	0.6	98	0.00	0	--	3H	1W	Rubble

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
156.97	158.50	1.53	1.06	69	0.00	0	--	3H	1W	Competent rock and gouge/rubble with 10% py on fracture surfaces.
158.50	159.41	0.91	0.9	99	0.00	0	--	3H	1W	
159.41	160.93	1.52	1.52	100	0.37	24	--	3H	1W	Competent
160.93	163.07	2.14	1.52	71	0.83	39	--	3H	1W	
163.07	164.29	1.22	1.22	100	0.26	21	--	3H	1W	fractured.
164.29	164.59	0.30	0.3	100	0.10	33	--	3H	1W	rubble and competent rock.
164.59	166.12	1.53	1.44	94	1.21	79	--	3H	1W	
166.12	167.64	1.52	1.52	100	1.45	95	--	4H	1W	Competent silica flooded granodiorite.
167.64	169.16	1.52	1.52	100	1.06	70	--	4H	1W	
169.16	170.69	1.53	1.52	99	0.53	35	--	4H	1W	
170.69	172.80	2.11	2.1	100	1.76	83	--	3H	1W	
172.80	175.26	2.46	2.37	96	0.30	12	--	3H	1W	
175.26	178.31	3.05	2.96	97	1.76	58	--	3H	1W	
178.31	179.83	1.52	1.5	99	0.40	26	--	2H	1W	Gouge and competent rock.
179.83	182.27	2.44	2.2	90	0.67	27	--	3H	1W	Blocks and fault breccia
182.27	184.40	2.13	2.1	99	2.05	96	--	3H	1W	Competent
184.40	187.45	3.05	3.05	100	2.78	91	--	3H	1W	Competent
187.45	188.98	1.53	1.52	99	1.03	67	--	3H	1W	Competent rock.
188.98	192.02	3.04	2.89	95	2.45	81	--	3H	1W	Competent rock.
192.02	195.07	3.05	2.75	90	1.70	56	--	3H	1W	Competent
195.07	196.90	1.83	1.83	100	0.90	49	--	3H	1W	Rubble gouge and competent rock, disseminated py.
196.90	197.21	0.31	0.3	97	0.00	0	--	3H	1W	rubble

Magnetic Suscepatibility

KL -20-489

Klaza Exploration Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
6	0.265	GRD	
7	0.257	GRD	
8	0.26	GRD	
9	0.194	GRD	
10	0.302	GRD	
11	0.19	GRD	
12	0.282	GRD	
13	0.249	GRD	
14	0.307	GRD	
15	181	GRD	
16	0.426	GRD	
17	0.242	GRD	
18	0.175	GRD	
19	0.176	GRD	
20	0.219	GRD	
21	0.127	GRD	
22	0.105	GRD	
23	0.138	GRD	
24	0.169	GRD	
25	0.153	GRD	
26	0.098	GRD	
27	0.175	GRD	
28	0.085	GRD	
29	0.089	GRD	
30	0.316	GRD	
30	0.316	GRD	
31	0.284	GRD	
32	0.169	GRD	
32	0.169	QFP	

Depth (m)	Magnetic Susceptibility	Unit	Comments
33	0.163	QFP	
34	0.177	QFP	
35	0.136	QFP	
36	0.21	QFP	
37	0.173	GRD	
38	0.233	GRD	
39	0.563	GRD	
40	0.16	GRD	
41	0.252	GRD	
42	0.124	GRD	
43	0.145	GRD	
44	0.136	GRD	
45	0.118	GRD	
46	0.125	GRD	
47	0.114	GRD	
48	0.158	GRD	
49	0.119	GRD	
50	0.209	GRD	
51	0.137	GRD	
52	0.166	GRD	
53	0.106	GRD	
54	0.103	GRD	
55	0.126	GRD	
56	0.097	GRD	
57	0.167	GRD	
58	0.125	GRD	
59	0.18	GRD	
60	0.154	GRD	
61	0.183	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
62	0.243	GRD	
63	0.247	GRD	
64	0.131	GRD	
65	0.145	GRD	
66	0.174	GRD	
67	0.151	GRD	
68	1.606	GRD	
69	0.192	GRD	
70	0.198	GRD	
71	0.334	GRD	
72	0.152	GRD	
73	0.16	GRD	
74	0.267	GRD	
75	0.212	GRD	
76	10.88	GRD	
77	27.57	GRD	
78	0.233	GRD	
79	0.213	GRD	
80	0.198	GRD	
81	0.122	GRD	
82	0.205	GRD	
83	1.081	GRD	
84	0.137	GRD	
85	0.138	GRD	
86	0.095	GRD	
87	0.115	GRD	
88	0.117	GRD	
89	0.185	GRD	
90	0.108	GRD	
91	0.394	GRD	
92	0.18	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
93	0.147	GRD	
94	0.142	GRD	
95	0.242	GRD	
96	0.226	GRD	
97	0.197	GRD	
98	0.157	GRD	
99	0.253	GRD	
100	0.228	GRD	
101	0.123	GRD	
102	0.212	GRD	
103	0.111	GRD	
104	0.248	QFP	
105	0.293	QFP	
106	0.157	QFP	
107	0.355	GRD	
108	0.335	GRD	
109	10.96	GRD	
110	10.9	GRD	
111	59.33	GRD	
112	4.814	GRD	
113	0.306	GRD	
114	0.347	GRD	
115	3.813	GRD	
116	29.9	GRD	
117	13.39	GRD	
118	22.14	GRD	
119	17	GRD	
120	1.6	GRD	
121	0.552	GRD	
122	4.495	GRD	
123	4.496	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
124	8.287	GRD	
125	0.289	GRD	
126	20.87	GRD	
127	0.474	GRD	
128	0.403	GRD	
128	0.403	GRD	
129	0.116	GRD	
130	0.117	GRD	
131	0.104	GRD	
132	0.08	GRD	
133	0.181	GRD	
134	0.163	GRD	
135	15.79	GRD	
136	0.134	GRD	
137	0.201	GRD	
138	0.093	GRD	
139	4.067	GRD	
140	0.422	GRD	
141	5.14	GRD	
142	0.255	GRD	
143	7.127	GRD	
144	1.491	GRD	
145	5.396	GRD	
145	5.396	GRD	
146	0.044	GRD	
147	0.113	GRD	
148	0.106	GRD	
149	0.054	GRD	
150	0.053	GRD	
151	0.052	GRD	
152	0.064	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments
153	0.106	GRD	
154	0.053	GRD	
155	0.122	GRD	
156	0.141	GRD	
157	0.031	GRD	
158	0.078	GRD	
159	0.148	GRD	
160	0.098	GRD	
161	0.097	GRD	
162	0.095	GRD	
163	0.101	GRD	
163	0.101	GRD	
164	0.133	GRD	
165	0.084	GRD	
166	0.122	GRD	
167	0.32	GRD	
168	0.081	GRD	
169	0.106	GRD	
170	0.127	GRD	
171	0.298	GRD	
172	0.07	GRD	
173	0.096	GRD	
174	0.053	GRD	
175	0.372	GRD	
176	0.045	GRD	
177	0.099	GRD	
178	0.128	GRD	
179	0.545	GRD	
180	0.091	GRD	
181	0.062	GRD	
182	0.147	GRD	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
183	0.104	GRD	
184	0.6	GRD	
185	0.112	GRD	
186	0.248	GRD	
187	0.112	GRD	
188	0.162	GRD	
189	0.087	GRD	
190	0.214	GRD	
191	0.107	GRD	
192	0.338	GRD	
193	0.097	GRD	
194	0.147	GRD	
195	0.171	GRD	
196	0.027	GRD	
197	0.034	GRD	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	C304201	☐	20-075	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304081	☐	20-070	Low grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304207	☐	20-075	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304170	☐	20-073	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304165	☐	20-073	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304161	☐	20-073	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304154	☐	20-072	Low Grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304146	☐	20-072	Low Grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304137	☐	20-072	Low Grade	Klaza2020-A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304093	☐	20-070	Low grade		☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304087	☐	20-070	Low grade	Klaza2020-B	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	C304218	☐	20-075	Low Grade		☑	☐	☐
5.79	8.79	3.00	GRD, OVB	3.00	100	C304066	☐	20-067	Low Grade		☐	☐	☐
8.79	10.29	1.50	GRD	1.39	93	C304067	☐	20-067	Low Grade		☐	☐	☐
10.29	11.79	1.50	GRD	1.50	100	C304068	☐	20-067	Low Grade		☐	☐	☐
11.79	12.80	1.01	GRD	0.97	96	C304069	☐	20-067	Low Grade		☐	☐	☐
12.80	13.85	1.05	GRD	1.05	100	C304070	☐	20-067	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
13.85	14.50	0.65	GRD	0.64	98	C304071	☐	20-067	Low Grade		☐	☐	☐
13.85	14.50	0.65	GRD	0.64	98	C304072	☐	20-067	Low Grade		☐	☑	☐
14.50	15.00	0.50	GRD	0.50	100	C304073	☐	20-067	Low Grade		☐	☐	☐
15.00	16.50	1.50	GRD	1.44	96	C304074	☐	20-067	Low Grade		☐	☐	☐
16.50	18.00	1.50	GRD	1.50	100	C304075	☐	20-067	Low Grade		☐	☐	☐
18.00	19.50	1.50	GRD	1.50	100	C304076	☐	20-067	Low Grade		☐	☐	☐
19.50	21.00	1.50	GRD	1.44	96	C304077	☐	20-070	Low grade		☐	☐	☐
21.00	22.00	1.00	GRD	0.92	92	C304078	☐	20-070	Low grade		☐	☐	☐
22.00	23.00	1.00	GRD	0.95	95	C304079	☐	20-070	Low grade		☐	☐	☐
23.00	24.00	1.00	GRD	1.00	100	C304080	☐	20-070	Low grade		☐	☐	☐
24.00	25.50	1.50	GRD	1.45	97	C304082	☐	20-070	Low grade		☐	☐	☐
25.50	26.50	1.00	GRD	0.93	93	C304083	☐	20-070	Low grade		☐	☐	☐
26.50	27.75	1.25	GRD	1.10	88	C304084	☐	20-070	Low grade		☐	☐	☐
27.75	28.65	0.90	GRD	0.90	100	C304085	☐	20-070	Low grade		☐	☐	☐
28.65	29.35	0.70	GRD	0.65	93	C304086	☐	20-070	Low grade		☐	☐	☐
29.35	30.50	1.15	GRD	1.11	97	C304088	☐	20-070	Low grade		☐	☐	☐
30.50	32.00	1.50	GRD	1.31	87	C304089	☐	20-070	Low grade		☐	☐	☐
32.00	33.50	1.50	GRD, QFP	1.50	100	C304090	☐	20-070	Low grade		☐	☐	☐
33.50	34.50	1.00	QFP	1.00	100	C304091	☐	20-070	Low grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
34.50	35.00	0.50	QFP	0.50	100	C304092	☐	20-070	Low grade		☐	☐	☐
35.00	36.50	1.50	QFP	1.50	100	C304094	☐	20-070	Low grade		☐	☐	☐
36.50	38.00	1.50	GRD	1.38	92	C304095	☐	20-070	Low grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.05	70	C304096	☐	20-070	Low grade		☐	☐	☐
38.00	39.50	1.50	GRD	1.05	70	C304097	☐	20-070	Low grade		☐	☐	☑
39.50	41.00	1.50	GRD	1.07	71	C304098	☐	20-070	Low grade		☐	☐	☐
41.00	44.00	3.00	GRD	3.00	100	C304099	☐	20-070	Low grade		☐	☐	☐
44.00	47.00	3.00	GRD	3.00	100	C304100	☐	20-070	Low grade		☐	☐	☐
47.00	50.00	3.00	GRD	3.00	100	C304101	☐	20-070	Low grade		☐	☐	☐
50.00	53.00	3.00	GRD	3.00	100	C304102	☐	20-070	Low grade		☐	☐	☐
53.00	56.00	3.00	GRD	3.00	100	C304103	☐	20-070	Low grade		☐	☐	☐
56.00	59.00	3.00	GRD	3.00	100	C304104	☐	20-070	Low grade		☐	☐	☐
59.00	62.00	3.00	GRD	3.00	100	C304105	☐	20-070	Low grade		☐	☐	☐
62.00	63.80	1.80	GRD	1.80	100	C304106	☐	20-070	Low grade		☐	☐	☐
63.80	65.20	1.40	GRD	1.40	100	C304107	☐	20-070	Low grade		☐	☐	☐
65.20	65.53	0.33	GRD	0.33	100	B700778	☐	20-036	High Grade		☐	☐	☐
65.53	66.69	1.16	GRD	1.16	100	B700779	☐	20-036	High Grade		☐	☐	☐
66.69	67.70	1.01	GRD	1.00	99	B700780	☐	20-036	High Grade		☐	☐	☐
67.70	68.30	0.60	GRD	0.60	100	B700781	☐	20-071	High Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
68.30	69.53	1.23	GRD	1.23	100	C304108	☐	20-070	Low grade		☐	☐	☐
69.53	71.00	1.47	GRD	1.47	100	C304109	☐	20-070	Low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.50	100	C304110	☐	20-070	Low grade		☐	☐	☐
71.00	72.50	1.50	GRD	1.50	100	C304111	☐	20-070	Low grade		☐	☑	☐
72.50	74.00	1.50	GRD	1.50	100	C304112	☐	20-070	Low grade		☐	☐	☐
74.00	75.50	1.50	GRD	1.50	100	C304113	☐	20-070	Low grade		☐	☐	☐
75.50	77.00	1.50	GRD	1.50	100	C304114	☐	20-070	Low grade		☐	☐	☐
77.00	78.50	1.50	GRD	1.50	100	C304115	☐	20-070	Low grade		☐	☐	☐
78.50	80.00	1.50	GRD	1.50	100	C304116	☐	20-070	Low grade		☐	☐	☐
80.00	81.50	1.50	GRD	1.50	100	C304117	☐	20-072	Low Grade		☐	☐	☐
81.50	82.80	1.30	GRD	1.30	100	C304118	☐	20-072	Low Grade		☐	☐	☐
82.80	83.30	0.50	GRD	0.40	80	B700782	☐	20-071	High Grade		☐	☐	☐
83.30	84.30	1.00	GRD	0.82	82	C304119	☐	20-072	Low Grade		☐	☐	☐
84.30	85.35	1.05	GRD	0.95	90	C304120	☐	20-072	Low Grade		☐	☐	☐
85.35	86.85	1.50	GRD	1.50	100	C304121	☐	20-072	Low Grade		☐	☐	☐
86.85	88.15	1.30	GRD	1.30	100	C304122	☐	20-072	Low Grade		☐	☐	☐
88.15	89.40	1.25	GRD	1.20	96	C304123	☐	20-072	Low Grade		☐	☐	☐
89.40	90.65	1.25	GRD	1.15	92	C304124	☐	20-072	Low Grade		☐	☐	☐
90.65	92.00	1.35	GRD	1.35	100	C304125	☐	20-072	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
92.00	93.50	1.50	GRD	1.50	100	C304126	☐	20-072	Low Grade		☐	☐	☐
93.50	95.00	1.50	GRD	1.50	100	C304127	☐	20-072	Low Grade		☐	☐	☐
95.00	96.50	1.50	GRD	1.50	100	C304128	☐	20-072	Low Grade		☐	☐	☐
96.50	98.00	1.50	GRD	1.50	100	C304129	☐	20-072	Low Grade		☐	☐	☐
98.00	99.50	1.50	GRD	1.50	100	C304130	☐	20-072	Low Grade		☐	☐	☐
99.50	100.58	1.08	GRD	1.08	100	C304131	☐	20-072	Low Grade		☐	☐	☐
100.58	101.50	0.92	GRD	0.92	100	C304132	☐	20-072	Low Grade		☐	☐	☐
101.50	102.40	0.90	GRD	0.90	100	C304133	☐	20-072	Low Grade		☐	☐	☐
102.40	103.63	1.23	GRD	1.23	100	C304134	☐	20-072	Low Grade		☐	☐	☐
103.63	105.00	1.37	QFP	1.34	98	C304135	☐	20-072	Low Grade		☐	☐	☐
105.00	105.90	0.90	QFP	0.90	100	C304136	☐	20-072	Low Grade		☐	☐	☐
105.90	106.53	0.63	QFP	0.56	89	B700783	☐	20-071	High Grade		☐	☐	☐
106.53	107.30	0.77	GRD	0.77	100	C304138	☐	20-072	Low Grade		☐	☐	☐
106.53	107.30	0.77	GRD	0.77	100	C304139	☐	20-072	Low Grade		☐	☐	☑
107.30	108.30	1.00	GRD	1.00	100	C304140	☐	20-072	Low Grade		☐	☐	☐
108.30	109.80	1.50	GRD	1.50	100	C304141	☐	20-072	Low Grade		☐	☐	☐
108.30	109.80	1.50	GRD	1.50	100	C304142	☐	20-072	Low Grade		☐	☑	☐
109.80	111.30	1.50	GRD	1.50	100	C304143	☐	20-072	Low Grade		☐	☐	☐
111.30	112.80	1.50	GRD	1.18	79	C304144	☐	20-072	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
112.80	114.30	1.50	GRD	1.50	100	C304145	☐	20-072	Low Grade		☐	☐	☐
114.30	115.80	1.50	GRD	1.50	100	C304147	☐	20-072	Low Grade		☐	☐	☐
115.80	117.00	1.20	GRD	0.91	76	C304148	☐	20-072	Low Grade		☐	☐	☐
117.00	118.50	1.50	GRD	1.45	97	C304149	☐	20-072	Low Grade		☐	☐	☐
118.50	120.00	1.50	GRD	1.46	97	C304150	☐	20-072	Low Grade		☐	☐	☐
120.00	121.20	1.20	GRD	1.16	97	C304151	☐	20-072	Low Grade		☐	☐	☐
121.20	122.61	1.41	GRD	1.32	94	C304152	☐	20-072	Low Grade		☐	☐	☐
122.61	123.70	1.09	GRD	1.05	96	C304153	☐	20-072	Low Grade		☐	☐	☐
123.70	125.20	1.50	GRD	1.47	98	C304155	☐	20-072	Low Grade		☐	☐	☐
125.20	125.70	0.50	GRD	0.50	100	C304156	☐	20-072	Low Grade		☐	☐	☐
125.70	127.20	1.50	GRD	1.38	92	C304157	☐	20-073	Low Grade		☐	☐	☐
127.20	128.00	0.80	GRD	0.80	100	C304158	☐	20-073	Low Grade		☐	☐	☐
128.00	129.50	1.50	GRD, GRD	1.41	94	C304159	☐	20-073	Low Grade		☐	☐	☐
129.50	130.50	1.00	GRD	0.96	96	C304160	☐	20-073	Low Grade		☐	☐	☐
130.50	131.00	0.50	GRD	0.50	100	C304162	☐	20-073	Low Grade		☐	☐	☐
131.00	132.50	1.50	GRD	1.46	97	C304163	☐	20-073	Low Grade		☐	☐	☐
132.50	133.40	0.90	GRD	0.86	96	C304164	☐	20-073	Low Grade		☐	☐	☐
133.40	134.40	1.00	GRD	1.00	100	C304166	☐	20-073	Low Grade		☐	☐	☐
134.40	135.50	1.10	GRD	1.08	98	C304167	☐	20-073	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
135.50	137.00	1.50	GRD	1.49	99	C304168	☐	20-073	Low Grade		☐	☐	☐
137.00	138.50	1.50	GRD	1.48	99	C304169	☐	20-073	Low Grade		☐	☐	☐
138.50	140.00	1.50	GRD	1.46	97	C304171	☐	20-073	Low Grade		☐	☐	☐
140.00	141.50	1.50	GRD	1.44	96	C304172	☐	20-073	Low Grade		☐	☐	☐
140.00	141.50	1.50	GRD	1.44	96	C304173	☐	20-073	Low Grade		☐	☑	☐
141.50	143.00	1.50	GRD	1.50	100	C304174	☐	20-073	Low Grade		☐	☐	☐
143.00	144.50	1.50	GRD	1.47	98	C304175	☐	20-073	Low Grade		☐	☐	☐
144.50	146.00	1.50	GRD	1.24	83	C304176	☐	20-073	Low Grade		☐	☐	☐
146.00	147.50	1.50	GRD	1.49	99	C304177	☐	20-073	Low Grade		☐	☐	☐
147.50	149.00	1.50	GRD	1.50	100	C304178	☐	20-073	Low Grade		☐	☐	☐
149.00	150.27	1.27	GRD	1.22	96	C304179	☐	20-073	Low Grade		☐	☐	☐
150.27	151.35	1.08	GRD	1.07	99	C304180	☐	20-073	Low Grade		☐	☐	☐
151.35	152.25	0.90	GRD	0.85	94	C304181	☐	20-073	Low Grade		☐	☐	☐
152.25	153.31	1.06	GRD	1.03	97	C304182	☐	20-073	Low Grade		☐	☐	☐
152.25	153.31	1.06	GRD	1.03	97	C304183	☐	20-073	Low Grade		☐	☐	☑
153.31	154.80	1.49	GRD	1.38	93	C304184	☐	20-073	Low Grade		☐	☐	☐
154.80	156.30	1.50	GRD	1.48	99	C304185	☐	20-073	Low Grade		☐	☐	☐
156.30	157.72	1.42	GRD	1.42	100	C304186	☐	20-073	Low Grade		☐	☐	☐
157.72	159.22	1.50	GRD	1.50	100	C304187	☐	20-073	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
159.22	160.00	0.78	GRD	0.78	100	C304188	☐	20-073	Low Grade		☐	☐	☐
160.00	161.00	1.00	GRD	0.93	93	C304189	☐	20-073	Low Grade		☐	☐	☐
161.00	162.50	1.50	GRD	1.32	88	C304190	☐	20-073	Low Grade		☐	☐	☐
162.50	164.00	1.50	GRD	1.45	97	C304191	☐	20-073	Low Grade		☐	☐	☐
164.00	165.40	1.40	GRD	1.34	96	C304192	☐	20-073	Low Grade		☐	☐	☐
165.40	166.80	1.40	GRD	1.40	100	C304193	☐	20-073	Low Grade		☐	☐	☐
166.80	168.30	1.50	GRD	1.50	100	C304194	☐	20-073	Low Grade		☐	☐	☐
168.30	169.80	1.50	GRD	1.50	100	C304195	☐	20-073	Low Grade		☐	☐	☐
169.80	171.00	1.20	GRD	1.02	85	C304220	☐	20-075	Low Grade		☐	☐	☐
171.00	172.20	1.20	GRD	1.13	94	C304196	☐	20-073	Low Grade		☐	☐	☐
172.20	173.10	0.90	GRD	0.90	100	C304197	☐	20-075	Low Grade		☐	☐	☐
173.10	174.60	1.50	GRD	1.40	93	C304198	☐	20-075	Low Grade		☐	☐	☐
174.60	176.10	1.50	GRD	1.41	94	C304199	☐	20-075	Low Grade		☐	☐	☐
176.10	177.23	1.13	GRD	1.13	100	C304200	☐	20-075	Low Grade		☐	☐	☐
177.23	178.00	0.77	GRD	0.68	88	C304202	☐	20-075	Low Grade		☐	☐	☐
178.00	179.20	1.20	GRD	0.50	42	C304203	☐	20-075	Low Grade		☐	☐	☐
179.20	180.55	1.35	GRD	1.30	96	C304204	☐	20-075	Low Grade		☐	☐	☐
180.55	182.00	1.45	GRD	1.45	100	C304205	☐	20-075	Low Grade		☐	☐	☐
182.00	183.50	1.50	GRD	1.50	100	C304206	☐	20-075	Low Grade		☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
183.50	185.00	1.50	GRD	1.50	100	C304208	☐	20-075	Low Grade		☐	☐	☐
185.00	186.50	1.50	GRD	1.48	99	C304209	☐	20-075	Low Grade		☐	☐	☐
186.50	188.00	1.50	GRD	1.44	96	C304210	☐	20-075	Low Grade		☐	☐	☐
188.00	189.50	1.50	GRD	1.50	100	C304211	☐	20-075	Low Grade		☐	☐	☐
189.50	191.00	1.50	GRD	1.46	97	C304212	☐	20-075	Low Grade		☐	☐	☐
191.00	192.50	1.50	GRD	1.39	93	C304213	☐	20-075	Low Grade		☐	☐	☐
191.00	192.50	1.50	GRD	1.39	93	C304214	☐	20-075	Low Grade		☐	☑	☐
192.50	194.00	1.50	GRD	1.31	87	C304215	☐	20-075	Low Grade		☐	☐	☐
194.00	195.07	1.07	GRD	0.87	81	C304216	☐	20-075	Low Grade		☐	☐	☐
195.07	196.50	1.43	GRD	1.35	94	C304217	☐	20-075	Low Grade		☐	☐	☐
196.50	197.21	0.71	GRD	0.40	56	C304219	☐	20-075	Low Grade		☐	☐	☐

Sample Results

Archer,Cathro & Associates (1981) Limited

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-070	C304081	0.00	0.00	2.91	120	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-070	C304087	0.00	0.00	2.85	210	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-070	C304093	0.00	0.00	0.01	30	☐	☐	☑	☐	Blank
20-072	C304137	0.00	0.00	0.63	300	☐	☐	☐	☑ Klaza2020-A	Klaza A
20-072	C304146	0.00	0.00	2.92	120	☐	☐	☐	☑ Klaza2020-B	Klaza B
20-072	C304154	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-073	C304161	0.00	0.00	0.63	220	☐	☐	☐	☑ Klaza2020-A	klaza a
20-073	C304165	0.00	0.00	2.75	110	☐	☐	☐	☑ Klaza2020-B	klaza b
20-073	C304170	0.00	0.00	0.00	20	☐	☐	☑	☐	blank
20-075	C304201	0.00	0.00	0.64	390	☐	☐	☐	☑ Klaza2020-A	klaza a
20-075	C304207	0.00	0.00	2.84	250	☐	☐	☐	☑ Klaza2020-B	klaza b
20-075	C304218	0.00	0.00	0.00	30	☐	☐	☑	☐	blank
20-067	C304066	5.79	8.79	0.10	400	☐	☐	☐	☐	
20-067	C304067	8.79	10.29	0.12	310	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-067	C304068	10.29	11.79	0.14	230	☐	☐	☐	☐	
20-067	C304069	11.79	12.80	0.06	300	☐	☐	☐	☐	
20-067	C304070	12.80	13.85	0.07	200	☐	☐	☐	☐	
20-067	C304071	13.85	14.50	0.08	80	☐	☐	☐	☐	
20-067	C304072	13.85	14.50	0.10	190	☑	☐	☐	☐	1/4 dup
20-067	C304073	14.50	15.00	0.12	300	☐	☐	☐	☐	
20-067	C304074	15.00	16.50	0.08	370	☐	☐	☐	☐	
20-067	C304075	16.50	18.00	0.36	140	☐	☐	☐	☐	
20-067	C304076	18.00	19.50	0.13	570	☐	☐	☐	☐	
20-070	C304077	19.50	21.00	0.09	420	☐	☐	☐	☐	
20-070	C304078	21.00	22.00	0.08	220	☐	☐	☐	☐	
20-070	C304079	22.00	23.00	0.10	460	☐	☐	☐	☐	
20-070	C304080	23.00	24.00	0.08	280	☐	☐	☐	☐	
20-070	C304082	24.00	25.50	0.27	90	☐	☐	☐	☐	
20-070	C304083	25.50	26.50	0.19	710	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-070	C304084	26.50	27.75	0.24	80	☐	☐	☐	☐	
20-070	C304085	27.75	28.65	0.09	130	☐	☐	☐	☐	
20-070	C304086	28.65	29.35	0.49	40	☐	☐	☐	☐	
20-070	C304088	29.35	30.50	0.14	120	☐	☐	☐	☐	
20-070	C304089	30.50	32.00	0.09	320	☐	☐	☐	☐	
20-070	C304090	32.00	33.50	0.07	1080	☐	☐	☐	☐	
20-070	C304091	33.50	34.50	0.07	1020	☐	☐	☐	☐	
20-070	C304092	34.50	35.00	0.19	130	☐	☐	☐	☐	
20-070	C304094	35.00	36.50	0.11	1020	☐	☐	☐	☐	
20-070	C304095	36.50	38.00	0.08	1050	☐	☐	☐	☐	
20-070	C304096	38.00	39.50	0.07	1010	☐	☐	☐	☐	
20-070	C304097	38.00	39.50	0.08	1020	☐	☑	☐	☐	coarse reject dup
20-070	C304098	39.50	41.00	0.08	1070	☐	☐	☐	☐	
20-070	C304099	41.00	44.00	0.11	680	☐	☐	☐	☐	
20-070	C304100	44.00	47.00	0.09	980	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-070	C304101	47.00	50.00	0.06	1030	☐	☐	☐	☐	
20-070	C304102	50.00	53.00	0.06	1070	☐	☐	☐	☐	
20-070	C304103	53.00	56.00	0.08	1630	☐	☐	☐	☐	
20-070	C304104	56.00	59.00	0.10	1250	☐	☐	☐	☐	
20-070	C304105	59.00	62.00	0.05	1040	☐	☐	☐	☐	
20-070	C304106	62.00	63.80	0.07	1480	☐	☐	☐	☐	
20-070	C304107	63.80	65.20	0.30	130	☐	☐	☐	☐	
20-036	B700778	65.20	65.53	0.28	300	☐	☐	☐	☐	
20-036	B700779	65.53	66.69	0.12	250	☐	☐	☐	☐	
20-036	B700780	66.69	67.70	0.16	270	☐	☐	☐	☐	
20-071	B700781	67.70	68.30	0.29	60	☐	☐	☐	☐	
20-070	C304108	68.30	69.53	0.10	100	☐	☐	☐	☐	
20-070	C304109	69.53	71.00	0.10	100	☐	☐	☐	☐	
20-070	C304110	71.00	72.50	0.12	60	☐	☐	☐	☐	
20-070	C304111	71.00	72.50	0.12	490	☑	☐	☐	☐	1/4 dup

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-070	C304112	72.50	74.00	0.08	210	☐	☐	☐	☐	
20-070	C304113	74.00	75.50	0.08	470	☐	☐	☐	☐	
20-070	C304114	75.50	77.00	0.06	1010	☐	☐	☐	☐	
20-070	C304115	77.00	78.50	0.07	1060	☐	☐	☐	☐	
20-070	C304116	78.50	80.00	0.06	270	☐	☐	☐	☐	
20-072	C304117	80.00	81.50	0.07	260	☐	☐	☐	☐	
20-072	C304118	81.50	82.80	0.03	190	☐	☐	☐	☐	
20-071	B700782	82.80	83.30	0.08	460	☐	☐	☐	☐	
20-072	C304119	83.30	84.30	0.05	460	☐	☐	☐	☐	
20-072	C304120	84.30	85.35	0.06	250	☐	☐	☐	☐	
20-072	C304121	85.35	86.85	0.10	210	☐	☐	☐	☐	
20-072	C304122	86.85	88.15	0.03	530	☐	☐	☐	☐	
20-072	C304123	88.15	89.40	0.02	240	☐	☐	☐	☐	
20-072	C304124	89.40	90.65	0.04	570	☐	☐	☐	☐	
20-072	C304125	90.65	92.00	0.07	160	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-072	C304126	92.00	93.50	0.02	530	☐	☐	☐	☐	
20-072	C304127	93.50	95.00	0.03	600	☐	☐	☐	☐	
20-072	C304128	95.00	96.50	0.03	630	☐	☐	☐	☐	
20-072	C304129	96.50	98.00	0.09	1020	☐	☐	☐	☐	
20-072	C304130	98.00	99.50	0.05	1150	☐	☐	☐	☐	
20-072	C304131	99.50	100.58	0.05	130	☐	☐	☐	☐	
20-072	C304132	100.58	101.50	0.04	390	☐	☐	☐	☐	
20-072	C304133	101.50	102.40	0.02	610	☐	☐	☐	☐	
20-072	C304134	102.40	103.63	0.14	290	☐	☐	☐	☐	
20-072	C304135	103.63	105.00	0.05	990	☐	☐	☐	☐	
20-072	C304136	105.00	105.90	0.07	400	☐	☐	☐	☐	
20-071	B700783	105.90	106.53	0.49	240	☐	☐	☐	☐	
20-072	C304138	106.53	107.30	0.11	470	☐	☐	☐	☐	
20-072	C304139	106.53	107.30	0.12	370	☐	☑	☐	☐	Coarse reject dup
20-072	C304140	107.30	108.30	0.12	490	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-072	C304141	108.30	109.80	0.11	470	☐	☐	☐	☐	
20-072	C304142	108.30	109.80	0.12	390	☑	☐	☐	☐	1/4 dup
20-072	C304143	109.80	111.30	0.07	1350	☐	☐	☐	☐	
20-072	C304144	111.30	112.80	0.11	320	☐	☐	☐	☐	
20-072	C304145	112.80	114.30	0.32	360	☐	☐	☐	☐	
20-072	C304147	114.30	115.80	0.09	1670	☐	☐	☐	☐	
20-072	C304148	115.80	117.00	0.07	1310	☐	☐	☐	☐	
20-072	C304149	117.00	118.50	0.08	1300	☐	☐	☐	☐	
20-072	C304150	118.50	120.00	0.05	1490	☐	☐	☐	☐	
20-072	C304151	120.00	121.20	0.05	1450	☐	☐	☐	☐	
20-072	C304152	121.20	122.61	0.13	1270	☐	☐	☐	☐	
20-072	C304153	122.61	123.70	0.05	1670	☐	☐	☐	☐	
20-072	C304155	123.70	125.20	0.68	190	☐	☐	☐	☐	
20-072	C304156	125.20	125.70	0.27	120	☐	☐	☐	☐	
20-073	C304157	125.70	127.20	0.10	1700	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-073	C304158	127.20	128.00	0.14	260	☐	☐	☐	☐	
20-073	C304159	128.00	129.50	0.48	560	☐	☐	☐	☐	
20-073	C304160	129.50	130.50	0.22	290	☐	☐	☐	☐	
20-073	C304162	130.50	131.00	0.39	140	☐	☐	☐	☐	
20-073	C304163	131.00	132.50	0.16	130	☐	☐	☐	☐	
20-073	C304164	132.50	133.40	0.48	80	☐	☐	☐	☐	
20-073	C304166	133.40	134.40	0.18	240	☐	☐	☐	☐	
20-073	C304167	134.40	135.50	0.16	210	☐	☐	☐	☐	
20-073	C304168	135.50	137.00	0.63	140	☐	☐	☐	☐	
20-073	C304169	137.00	138.50	0.38	60	☐	☐	☐	☐	
20-073	C304171	138.50	140.00	0.29	510	☐	☐	☐	☐	
20-073	C304172	140.00	141.50	0.13	1090	☐	☐	☐	☐	
20-073	C304173	140.00	141.50	0.11	720	☑	☐	☐	☐	quarter dup
20-073	C304174	141.50	143.00	0.25	340	☐	☐	☐	☐	
20-073	C304175	143.00	144.50	0.13	1340	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-073	C304176	144.50	146.00	0.09	960	☐	☐	☐	☐	
20-073	C304177	146.00	147.50	0.40	520	☐	☐	☐	☐	
20-073	C304178	147.50	149.00	0.10	270	☐	☐	☐	☐	
20-073	C304179	149.00	150.27	0.07	50	☐	☐	☐	☐	
20-073	C304180	150.27	151.35	0.08	120	☐	☐	☐	☐	
20-073	C304181	151.35	152.25	0.11	210	☐	☐	☐	☐	
20-073	C304182	152.25	153.31	2.81	30	☐	☐	☐	☐	
20-073	C304183	152.25	153.31	2.71	40	☐	☑	☐	☐	coarse reject
20-073	C304184	153.31	154.80	0.05	210	☐	☐	☐	☐	
20-073	C304185	154.80	156.30	0.08	70	☐	☐	☐	☐	
20-073	C304186	156.30	157.72	0.13	200	☐	☐	☐	☐	
20-073	C304187	157.72	159.22	0.19	290	☐	☐	☐	☐	
20-073	C304188	159.22	160.00	0.18	560	☐	☐	☐	☐	
20-073	C304189	160.00	161.00	0.07	240	☐	☐	☐	☐	
20-073	C304190	161.00	162.50	0.07	230	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-073	C304191	162.50	164.00	0.05	1200	☐	☐	☐	☐	
20-073	C304192	164.00	165.40	0.18	360	☐	☐	☐	☐	
20-073	C304193	165.40	166.80	0.10	1250	☐	☐	☐	☐	
20-073	C304194	166.80	168.30	0.15	160	☐	☐	☐	☐	
20-073	C304195	168.30	169.80	0.03	950	☐	☐	☐	☐	
20-075	C304220	169.80	171.00	0.03	1570	☐	☐	☐	☐	
20-073	C304196	171.00	172.20	0.03	950	☐	☐	☐	☐	
20-075	C304197	172.20	173.10	0.14	290	☐	☐	☐	☐	
20-075	C304198	173.10	174.60	0.07	440	☐	☐	☐	☐	
20-075	C304199	174.60	176.10	0.03	420	☐	☐	☐	☐	
20-075	C304200	176.10	177.23	0.11	780	☐	☐	☐	☐	
20-075	C304202	177.23	178.00	0.11	310	☐	☐	☐	☐	
20-075	C304203	178.00	179.20	0.11	70	☐	☐	☐	☐	
20-075	C304204	179.20	180.55	0.11	280	☐	☐	☐	☐	
20-075	C304205	180.55	182.00	0.07	270	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	Ba g/t	¼ Dup	Crs. Dup	Blk	Standard	Comments
20-075	C304206	182.00	183.50	0.07	390	☐	☐	☐	☐	
20-075	C304208	183.50	185.00	0.06	630	☐	☐	☐	☐	
20-075	C304209	185.00	186.50	0.09	1070	☐	☐	☐	☐	
20-075	C304210	186.50	188.00	0.08	930	☐	☐	☐	☐	
20-075	C304211	188.00	189.50	0.06	740	☐	☐	☐	☐	
20-075	C304212	189.50	191.00	0.04	430	☐	☐	☐	☐	
20-075	C304213	191.00	192.50	0.04	540	☐	☐	☐	☐	
20-075	C304214	191.00	192.50	0.04	340	☑	☐	☐	☐	quarter dup, core cutter error in sampling, both sample and quarter dup are quarter sections of core and same weight. Half core left in box.
20-075	C304215	192.50	194.00	0.06	720	☐	☐	☐	☐	
20-075	C304216	194.00	195.07	0.05	250	☐	☐	☐	☐	
20-075	C304217	195.07	196.50	0.21	140	☐	☐	☐	☐	
20-075	C304219	196.50	197.21	0.13	240	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
14.00	14.02	VT	37	75	NUL	1	small qtz py vein, strong silica alteration halo			
								Py	20	---
14.90	14.92	VT	37	60	NUL	1	qtz py veinlet, strong silica alteration halo			
								Py	60	---
17.00	17.20	GO	34	--	NUL	1	gougy interval with disseminated Py			
								Py	10	---
25.70	25.90	ST		30	NUL	1	strained sheared py rich shear			
								Py	15	---
65.40	65.53	VN	37	28	NUL	1	qtz py vein, grey qtz, 4cm true width			
								Py	20	---
65.53	67.06	VN	37	5	NUL	1	mess of pale grey qtz veins at low angle to core axis, minor py			
								Py	3	---
67.88	68.80	VN	37	60	NUL	1	pale qtz vein with py and cpy, trace Bn			
								Py	15	---
								Cp	3	---
								Bo	1	---
71.92	72.03	FT	42	45	NUL	1	gougy fault with dark grey shears, few % dissemiante py in gouge, maybe at 45 deg tca, hard to tell			
								Py	3	---
80.85	81.50	VT	37	10	NUL	1	~1cm true width veinlet with few ~ Mo and minor Py			
								Mo	3	---
								Py	1	---
82.95	83.10	VN	37	22	NUL	1	5cm true width pale qtz with py and trace Cpy			
								Py	20	---
								Cp	1	---
85.40	85.43	VT	37	30	NUL	1	3cm true width veinlet, with ~4% Py, and minor Mo			
								Mo	1	---
								Py	4	---
86.60	86.66	VB	37	50	NUL	1	qtz-carbonate vein with Py and Mo			
								Py	20	---
								Mo	1	---

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
99.90	100.48	VT	37	5	NUL	1	3-4cm true width vein with py, and trace Cpy and Mo			
								Py	8	---
								Cp	1	---
								Mo	0.5	---
105.95	106.05	SH	81	32	NUL	1	shears at contact between dyke and vein at boundary with GRD. Dissemianted py in gouge			
								Py	7	---
106.05	106.30	VN	37	30	NUL	1	py vein at contact with dyke and GRD. Broken and brecciated, strained and crackled.			
								Py	20	---
118.85	118.88	SH	81	65	NUL	1	sheared carboante clay altered veinlet(?)			
122.70	123.30	VT	37	10	NUL	1	5mm wide veinlet with Py and magnetite			
								Py	3	---
								Mg	1	---
125.30	125.33	VT	37	50	NUL	1	qtz veinlet with py and minor magnetite			
								Py	3	---
126.00	126.01	VT	37	50	NUL	1	small 2mm veinlet with qtz and minor py with chlorite alteration in selvages			
127.80	127.81	VT	37	32	NUL	1	small 2 mm veinelt with py and qtz, chlorite alteration in vein halo			
130.80	130.90	VT	37	55	NUL	3	sheared / strained veinlets with py and carbonate			
								Py	3	---
131.80	138.90	VN	37	50	NUL	1	qtz flooding around vein, qtz with minor Py			
								Py	3	---
132.20	132.25	VN	37	50	NUL	1	qtz flooding around 5cm vein with minor Py			
								Py	3	---
132.60	132.85	VT	37	25	NUL	1	qtz py veinlet			
								Py	2	---
132.85	132.88	VT	37	55	NUL	1	quartz py vein, true width 1.5cm			
								Py	4	---
133.05	133.08	VN	37	50	NUL	1	qtz vein with py			
								Py	11	---
134.00	134.33	FT	42	-	NUL	1	sheared and clay altered. Some CPY in vein fragments in rubbly gouge			

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
								Py	2	---
								Cp	0.5	---
138.20	138.35	VT	37	70	NUL	3	set of three 1cm qtz py veinlets			
								Py	10	---
149.70	149.90	FT	42	-	NUL	1	faulted interval			
151.79	152.20	FT	42	-	NUL	1	faulted interval w dissemiante py			
152.70	153.30	VT	37	20	NUL	1	low angle veinlet ~2cm wide with qtz and Py			
								Py	7	---
153.00	153.30	VT	37	25	NUL	1	2cm true width vein(let), Py and minor Cpy			
								Py	10	---
								Cp	1	---
155.80	155.90	FT	42	--	NUL	1	fractured and gougy section			
159.15	159.16	VT	37	60	NUL	1	py veinelt			
								Py	30	---
160.15	160.16	VT	37	60	NUL	1	qtz py veinlet			
								Py	20	---
164.90	165.00	VT	37	60	NUL	2	two small veinelts with dominantly carbonate but also with py and small amounts of unidentified dark grey/black mineral			
								Py	2	---
								Un	0.1	---
165.20	165.25	VT	37	25	NUL	1	Qtz py veinlet with minor vnhos chl			
								Py	3	---
								Ch	1	---
166.90	167.65	VT	37	25	NUL	4	silica flooding halos around small qtz py vienlets, halos ~5cm, sometimes fikled with rubbly gouge/clay infill.			
								Py	2	---
167.65	168.00	VT	37	42	NUL	3	sheared / strained silica flooding around qtz py veinlets at 42 deg tca			
								Py	3	---
177.50	178.00	VT	37	12	NUL	1	1cm true width brecciated veinlet of quartz carbonate with small clasts and Sphal and Py			
								Sp	2	---
								Py	2	---
179.30	179.60	FT	42	-	NUL	1	clay altered and fractured intrerval			

APPENDIX VII

SIGNIFICANT DRILL INTERSECTIONS

Hole ID	Zone ID	From (m)	To (m)	Interval (m)*	Gold (g/t)	Silver (g/t)
KL-10-03	Central Klaza	32.96	35.5	2.54	4.34	71.2
and		62.08	112.36	50.28	1.1	23.5
including		62.08	64.74	2.67	2.41	130.1
including		86.93	106.68	19.75	2.29	36.1
including		86.93	89.55	2.62	13.05	143
KL-10-04	BRX	97.6	98.75	1.15	1.55	23.2
and		109.83	111	1.17	5.07	53.6
KL-10-06	Pika	21.64	25	3.36	32.52	34.3
KL-10-07	Central Klaza	33.5	34.5	1	1.91	38.5
and		57.8	58.8	1	5.51	107

and		128	164.5	36.5	3.23	117.7
including		134	149.3	15.3	7.2	260
including		138.5	139.5	1	39.3	709
including		146.77	149.3	2.53	24.7	1087
KL-10-09	Pika	25.4	26.4	1	2.89	78
KL-10-10	Central Klaza	137	211.3	74.3	0.7	8.3
including		137	146.3	9.3	1.51	7.4
including		137	139.15	2.15	3.81	21.5
including		145.1	146.3	1.2	4.12	7.8
including		178	211.3	33.3	1.04	14.7
including		178	179	1	8.78	182
including		203	204	1	3.81	19.8
including		210	211.3	1.3	12.9	181
KL-10-11	AEX	88	89	1	0.45	99.2
and		110.2	111.2	1	2.25	25
and	BRX	182	189.6	7.6	0.89	9.17
including		182	183	1	2.86	3.7
and including		188.66	189.6	0.94	3.43	66.8
and		199.2	200.2	1	1.48	43.6
and		218	219	1	2.66	8.2
KL-11-12	Central Klaza	107.08	108.1	1.02	3.06	253
and		194.4	196.36	1.96	1.98	49
and		217.34	225.8	8.46	1.75	42
including		221	225.8	4.8	2.8	70
and		257.7	258.72	1.02	3.7	7
KL-11-13	Central Klaza	89.23	94	4.77	1.71	34
and		137.23	139.16	1.93	1.13	37
and		156.45	203.61	47.16	0.52	6
including		156.45	165.46	9.01	1.24	12

KL-11-14	Central Klaza	120.1	121.1	1	1.75	32
and		155.13	156.07	0.94	0.58	135
and		231.76	232.79	1.03	7.99	45
and		289.68	307.46	17.78	1.14	12
including		289.68	297.79	8.11	2.39	22
KL-11-15	Central Klaza	76.66	87.12	10.46	4.24	15
and		109.8	111.18	1.38	1.98	56
KL-11-16	Central Klaza	55.28	57	1.72	1	16
and		79.71	94.82	15.11	2.89	49
including		88.04	94.82	6.78	6.09	101
KL-11-17	Central Klaza	141.42	142.5	1.08	9.68	211
and		207.27	219.3	12.03	3.78	25
including		215.36	219.3	3.94	11.25	72
and		267.11	269.58	2.47	3.98	20
KL-11-18	Central Klaza	72.48	75.26	2.78	0.94	12
and		131.22	172.77	41.55	0.75	18
including		131.22	136.25	5.03	1.07	84
and		153	172.77	19.77	1.03	9
KL-11-19	Central Klaza	176.28	177.79	1.51	1	19
and		204.49	234.91	30.42	1.27	12
including		232.02	234.91	2.89	7.81	43
KL-11-20	Central Klaza	61.29	62.37	1.08	0.57	83
and		118.12	119.14	1.02	1.48	78
and		213.94	215.79	1.85	1.84	3
and		226.55	228.21	1.66	1.29	55
and		262	263	1	11.9	12
and		274.3	277.22	2.92	1.99	16
and		314.29	317.34	3.05	1.54	7

and		345.47	356.32	10.85	1.75	11
KL-11-21	Central Klaza	133	145.34	12.34	1.25	31
including		133	134.92	1.92	7.24	176
and		166.48	171.88	5.4	2.37	23
KL-11-22	BRX	56.2	61.4	5.2	0.47	124
KL-11-23	BRX	109	110.55	1.55	3.99	229
KL-11-24	BRX	72	73.37	1.37	3.15	72
KL-11-25	Central Klaza	52.48	64.42	11.94	2.31	41
including		52.48	58.75	6.27	4.22	75
and		94.7	95.71	1.01	7.48	445
KL-11-26	Central Klaza	72.01	83.34	11.33	0.98	15
KL-11-27	Central Klaza	101.28	114.33	13.05	2.27	15
including		101.28	103.22	1.94	8.56	77
and		143.82	170.03	26.21	1.76	26
including		144.37	145.16	0.79	27.4	549
including		155.93	157.53	1.6	6.43	50
including		168.57	170.03	1.46	7.41	54
and		211.99	213.43	1.44	10.19	23
including		211.99	212.6	0.61	21.3	39
KL-11-28	Central Klaza	72.48	75.1	2.62	1.6	32
and		202	202.63	0.63	5.41	54
and		253.66	255.12	1.46	10.25	585
KL-11-29	BRX	31.9	41.24	9.34	1.95	147
including		31.9	34.9	3	3.29	407

KL-11-31	Central Klaza	229.73	231.72	1.99	2.58	19
and		248.52	249.53	1.01	5.07	98
KL-11-32	Central Klaza	70.36	71.34	0.98	0.68	98
and		117.09	118.04	0.98	4.2	16
and		122.81	123.43	0.62	2.47	14
KL-11-33	BRX	120.3	121.64	1.34	5.51	180
KL-11-34	Western Klaza	16.52	18.53	2.01	1.48	33
and		148.95	157.42	8.47	1.31	66
including		156.28	157.42	1.14	5.84	122
KL-11-35	BRX	112.42	115.44	3.02	3.03	84
including		126.74	130.6	3.86	5.85	92
KL-11-36	Western Klaza	59.42	62.46	3.04	0.41	165
and		136	138	2	1.61	102
and		174	176.02	2.02	1.48	32
and		242.71	245	2.29	1.37	32
KL-11-37	BRX	81.13	95.93	14.8	5.43	50
including		81.13	82.83	1.7	11.05	133
and including		88.95	90.17	1.22	34	298
and including		94.68	95.93	1.25	13.1	97
KL-11-38	Central Klaza	64.82	84.22	19.4	0.99	25
including		66.8	69.7	2.9	2.88	14
including		75.38	76.62	1.24	6	179
and		102.87	104.19	1.32	6.67	94
and		115.55	116.77	1.22	3.54	42

KL-11-39	BRX	151.29	152.94	1.65	23.5	239
KL-11-40	Central Klaza	63.33	68.02	4.69	5.39	26
and		82.36	83.36	1	4.48	5
and		130.6	137.68	7.08	0.7	13
and		175.65	177.17	1.57	2.06	11
KL-11-41	Central Klaza	183.63	193.31	9.68	1.59	9
and		207.44	212.58	5.14	1.16	12
and		253.31	254.75	1.44	3.09	12
and		306.93	308.31	1.38	1.08	17
and		340.3	341.3	1	2.6	16
KL-11-42	Regional	41.63	42.51	0.88	1.45	30
and		94.82	96.62	1.8	0.01	422
KL-11-43	Central Klaza	89.44	90.8	1.36	1.95	84
and		120.15	135.02	14.87	1.08	18
and		149.95	151.66	1.71	3.02	46
and		202.59	208.8	6.21	0.93	16
and		260.55	262.7	2.15	4.42	12
KL-11-44	Central Klaza	14.21	17.02	2.81	0.86	9
and		80.39	82.19	1.8	1.85	67
and		193	194.42	1.42	0.5	143
and		234	235	1	2.56	3
and		291.55	301.7	10.15	2.67	50
including		291.55	296.41	4.86	4.76	88
and		342.96	343.98	1.02	1.63	35
KL-11-45	Regional	125.64	127.1	1.46	1.05	51
and		134.95	136.25	1.3	2.94	94

KL-11-46	Central Klaza	179.03	204.51	25.48	0.53	11
including		179.03	188.15	9.12	0.88	22
and		242.9	243.71	0.81	11.95	151
and		293.48	294.68	1.2	4.25	16
KL-11-47	Central Klaza	57.72	61.48	3.76	6.93	36
and		73.86	74.86	1	2.79	52
and		145.39	157.52	12.13	1.18	14
including		156.52	157.52	1	9.28	78
KL-11-50	Central Klaza	51.05	53.95	2.9	14.05	30
and		108.49	125.01	16.52	1.18	6
and		199.35	214.22	14.87	1.02	8
and		252.02	253.48	1.46	4.71	19
KL-11-52	Central Klaza	149.24	166.09	16.85	1.2	8
and		192.51	193.53	1.02	2.48	49
and		257.37	265.55	8.18	2.22	19
including		263.08	263.58	0.5	31.1	208
KL-11-53	Central Klaza	33.38	34.28	0.9	3.26	4
and		45.27	58.26	12.99	0.77	5
including		45.27	49.89	4.62	1.41	7
and		174.67	176.46	1.79	8.19	30
KL-11-55	Central Klaza	82.85	84.43	1.5	4.87	35
and		244	255.34	11.34	0.76	10
and		264.46	265.58	1.12	3.08	57
and		276.8	284.22	7.42	0.67	46
and		308.25	311.22	2.97	2.26	21
and		369.64	370.64	1	3.37	141
KL-11-56	Central Klaza	109.12	121.63	12.51	5.03	14
and		232.23	233.23	1	9.34	76

KL-11-57	Central Klaza	60.05	71.95	11.9	0.58	8
including		67.63	71.95	4.32	0.96	10
KL-11-58	Central Klaza	18.62	20.42	1.8	2.79	26
and		61.32	62.32	1	2.85	47
and		70.07	71.35	1.28	13.05	60
and		179.28	196.7	17.42	1.5	36
including		182.66	184.86	2.2	4.38	192
including		187.56	188.96	1.4	5.11	27
including		195.7	196.7	1	3.81	112
and		238.07	239.51	1.44	2.46	28
and		248.97	249.97	1	5.45	18
and		264.2	265.2	1	3.66	112
and		290.03	291.03	1	3.84	44
KL-11-59	Central Klaza	107.65	119.22	11.57	0.57	12
including		117.67	119.22	1.55	1.2	6
KL-11-60	Central Klaza	66.14	67.06	0.92	4.45	6
and		90.03	96.38	6.35	1.17	16
and		133.19	138.01	4.82	1.42	22
and		234.62	239.95	5.33	0.82	6
and		261.21	265.95	4.74	0.86	17
and		293.41	295.33	1.92	1.17	17
KL-11-61	Central Klaza	15.04	17.47	2.43	2.03	23
and		24.28	27.35	3.07	1.76	7
and		75.08	82.2	7.12	1.39	19
and		160.63	184.9	24.27	1.21	8
and		279.86	286.66	6.8	0.81	7
and		299.75	301.05	1.3	1.42	105
and		308.73	309.98	1.25	2.92	41
KL-11-62	Central Klaza	51.81	55.4	3.59	3.81	14

and		161.03	173.2	12.17	0.65	25
including		161.03	163.68	2.65	1.5	71
and		275.03	276.03	1	1.02	169
and		299.05	300.7	1.65	7.17	14
KL-11-63	Central Klaza	69.77	71.2	1.43	6.29	342
and		125.41	126.41	1	1.84	111
and		300.67	310.92	10.25	1.17	15
including		300.67	301.67	1	8.17	91
KL-11-51x	Eastern Klaza	250.3	251.5	1.2	2.07	27.9
and		427.39	428.43	1.04	0.88	10.7
and		435.32	439.27	3.95	0.82	8.45
KL-12-64	Eastern Klaza	56.46	61.14	4.68	0.76	8.85
and		88.84	93.26	4.42	2.07	20.7
and		125	126.33	1.33	2.02	46.7
KL-12-65	Eastern Klaza	11.87	12.87	1	2.78	20
and		97.15	98.44	1.29	1.47	10.8
and		119.82	121.84	2.02	1.78	12.9
and		130.7	135.04	4.34	3.91	30.2
including		134.04	135.04	1	16.05	90.2
and		188.61	190.77	2.16	0.81	98
KL-12-66	BRX	51.28	59.98	8.7	0.74	35
including		58.98	59.98	1	2.63	261
and		63.39	64.39	1	2.5	24.6
and		80.53	81.53	1	2.93	15
and	Pika	276.95	277.9	0.95	0.64	130
KL-12-67	Eastern Klaza	119.98	121	1.02	2.34	234
and		131.7	135.15	3.45	1.03	129.12
including		132.7	133.95	1.25	2.07	341
and		203.78	206.35	2.57	3.07	23.1

KL-12-68	Eastern Klaza	53.18	54.18	1	5.19	34
and		88.82	96.55	7.73	0.81	6.35
including		88.82	90.78	1.96	1.16	14.21
and		93.97	96.55	2.58	1.26	5.43
and		122.2	123.2	1	34.1	47.5
and		174.65	178.14	3.49	1.14	107.28
and		236.97	238.41	1.44	1.52	16.75
and		254.64	256.74	2.1	0.22	68.2
KL-12-69	BRX	190.44	194.86	4.42	3.23	58.88
including		190.44	192.26	1.82	5.79	40.2
KL-12-70	Eastern Klaza	37.29	38.3	1.01	1.07	7.89
KL-12-71	Eastern Klaza	69.4	73.17	3.77	1.72	13.24
including		69.4	71	1.6	3.03	28
and		99.89	108.05	8.16	1.25	14.89
including		99.89	104.98	5.09	1.67	21.55
and		147.7	148.83	1.13	1.31	81.8
and		177.26	179.37	2.11	0.8	48.22
and		196.32	199.79	3.47	0.93	24.12
and		206.39	208.63	2.24	1.27	11.51
KL-12-72	BRX	178.48	179.81	1.33	10.6	23.2
and		203.19	210	6.81	1.55	11.02
including		203.19	204.4	1.21	4.48	15.1
KL-12-73	Eastern Klaza	38.25	41.57	3.32	0.98	28.8
and		64.55	65.55	1	2.3	36.2
and		165.3	166.5	1.2	0.62	84.1
and		237.75	238.82	1.07	2.06	6.15
KL-12-74	BRX	206.89	207.89	1	4.85	35.7

and		244.64	246.7	2.06	3.75	0.05
KL-12-75	Western Klaza	78.68	80.5	1.82	5.66	5.57
and		103.3	104.3	1	2.91	299
KL-12-76	Eastern Klaza	92	93.08	1.08	1.64	6.97
and		103.27	111.51	8.24	1.11	5.27
Including		103.27	104.53	1.26	3.22	6.82
and		173.94	175.35	1.41	0.77	86.4
KL-12-77	Eastern Klaza	58	59	1	14.65	392
and		193.04	199.26	6.22	1.39	16.07
and		194.26	195.26	1	7.43	65.2
KL-12-78	Eastern Klaza	48.22	57.27	9.05	1.12	38.5
and		97.05	98.05	1	2.43	22.6
and		191.43	193.45	2.02	1.08	9.02
and		203.85	205.98	2.13	1.3	4.67
KL-12-79	Western Klaza	91.56	94.77	3.21	3.18	516
including		92.65	93.77	1.12	7.47	1350
KL-12-80	Eastern Klaza	187.53	189.95	2.42	2.29	24.7
and		196.95	204.2	7.25	1.06	8.58
including		203.15	204.2	1.05	6.52	6.88
and		288	289.25	1.25	1.94	3.22
KL-12-81	Dickson	12.68	13.68	1	2.84	14.5
and		28.24	29.76	1.52	1.61	3.44
and		59.43	61.61	2.18	4.81	2.36
and		89.37	90.37	1	3.63	130
KL-12-82	Eastern Klaza	92.9	94.5	1.6	0.85	369

and		185.52	189.75	4.23	0.54	36.09
including		185.52	186.52	1	1.76	146
and		240.22	247.04	6.82	1.13	14.6
including		240.22	241.23	1.01	3.19	49.2
KL-12-83	Dickson	45.01	46.36	1.35	5.83	132
and		105.83	107.17	1.34	0.73	59.1
KL-12-85	Eastern Klaza	207.64	208.64	1	0.62	36.5
KL-12-86	Chevron	115.69	116.69	1	7.08	127
KL-12-87	Regional	194.5	196	1.5	1.19	7.06
KL-12-88	BRX	236.83	247.42	10.59	1.36	58.1
including		236.83	239.41	2.58	4.64	181
KL-12-89	Pika	55.39	57.59	2.2	3.84	43.2
KL-12-91	AEX?	98.02	99.07	1.05	17.65	119
and	BRX	295.13	296.5	1.37	3.27	33.6
and		333.89	336.13	2.24	0.73	19.5
KL-12-92	Pika	117.08	120.05	2.97	1.14	4.5
and	Herc	171.82	172.82	1	2.8	8.46
KL-12-95	Pika	121.65	123.08	1.43	1.38	0.74
and	Herc	250.57	252.85	2.28	3.39	205
and		258.75	259.75	1	1.38	53.7
KL-12-93	Pika	90.17	93.59	3.42	1.51	23.2
including		90.17	91.51	1.34	3.47	21.2

and		108.7	109.7	1	6.29	61.9
KL-12-96	BRX	329.74	345.36	15.62	5.78	111
including		329.74	332.06	2.32	25.1	621
and including		342.46	345.36	2.9	10.55	92.7
KL-12-97	AEX	63.85	65.33	1.48	1.15	5.54
and		72.74	75.29	2.55	1.57	4.26
and	BRX	223.86	225.69	1.83	1.61	12.7
and		236.92	248.51	11.59	1.71	6.44
including		236.92	238.23	1.31	13.05	17.65
KL-12-99	BRX	204.22	205.22	1	0.52	118
KL-12-100	Herc	208.55	209.55	1	0.45	61.4
and		247.04	248.04	1	1.31	29.3
KL-12-101	Dickson	44.37	45.6	1.23	2.37	34.4
KL-12-102	BRX	296.93	308.2	11.27	0.31	40.5
including		296.93	298.44	1.51	1.75	209
KL-12-103	AEX	19.28	20.28	1	1.16	35.7
and		26.07	29.9	3.83	1.21	49
including		28.38	29.9	1.52	1.9	111
KL-12-105	BRX	179.84	180.95	1.11	0.54	50
and		189.46	191.11	1.65	1.62	286
KL-12-106	BRX	227.99	228.99	1	1.01	59.3
and		250.36	251.36	1	3.42	116

KL-12-107	Western Klaza	111.49	112.49	1	4.64	191
and		121.73	122.73	1	1.18	3.42
and		204.8	206.08	1.28	2.13	4.94
KL-12-108	Dickson	73.71	77.09	3.38	3.09	78.6
KL-12-109	AEX	4.9	6.89	1.99	1.29	24.7
and	BRX	266.67	267.86	1.19	3.57	283
and		276.97	277.97	1	0.92	16.9
KL-12-110	Eastern Klaza	36.82	38.05	1.23	1.39	7.64
and		49.22	50.22	1	1.96	8.46
and		56.53	62.94	6.41	1.71	10.53
including		61.83	62.94	1.11	4.81	39.1
and		113.75	114.77	1.02	1.22	156
and		136.8	137.8	1	0.72	33.6
and		212.52	213.52	1	1.26	3.97
and		218.82	219.82	1	1.67	6.1
and		233	234.01	1.01	1.55	40.2
and		298.35	299.94	1.59	1.5	2.76
and		302.97	304.08	1.11	1.4	2.77
and		319.64	322.01	2.37	3.18	1.67
KL-12-112	BRX	262.34	263.11	0.77	1.74	167
and		266.09	267.09	1	1.08	19.8
KL-12-114	BRX	45.58	47.85	2.27	6.86	153
and		81.15	82.15	1	2.26	51.2
and	Pika	106.64	119.22	12.58	2.25	40
including		106.64	107.64	1	9.55	137
and including		117.7	119.22	1.52	11.3	233
and	Herc	183.51	185.85	2.34	1.32	8.4

KL-12-115	Western Klaza	180.42	181.53	1.11	1.6	1.08
and		214.47	221.59	7.12	4.51	332
including		214.47	215.5	1.03	2.98	1560
and including		219.48	221.59	2.11	13.75	357
KL-12-116	Eastern Klaza	115.75	116.75	1	0.53	53.6
and		211.09	212.09	1	2.56	2.31
and		226.79	227.92	1.13	2.15	8.35
and		229.24	230.62	1.38	0.98	19.6
and		273.35	274.35	1	0.98	12.9
and		297.74	298.79	1.05	3.81	6.6
and		323.81	325.22	1.41	0.7	34.9
and		368.5	369.51	1.01	1.76	11.65
and		396	397	1	1.22	0.59
KL-12-117	Chevron	108.81	109.81	1	1.73	38
KL-12-118	BRX	158.42	166.05	7.63	0.62	33.3
including		165.05	166.05	1	1.85	145
KL-12-120	Chevron	72.79	73.8	1.01	2.54	45.6
and		101.09	102.35	1.26	3.97	95.4
and		118.73	119.73	1	0.34	50
KL-12-121	Eastern Klaza	87.69	89.03	1.34	1.29	5.02
and		93.5	94.5	1	0.71	25.1
and		295.7	296.85	1.15	1.24	1.58
and		301.1	302.12	1.02	1.22	2.48
and		374.6	376.42	1.82	1.52	4.14
and		386.6	404.63	18.03	1.43	2.69
including		386.6	387.7	1.1	5.3	11.8
and including		393.79	396.09	2.3	3.88	4.38

KL-12-122	Western Klaza	35.45	37.2	1.75	0.48	82.5
and		160.2	161.5	1.3	0.7	40.1
and		207.07	208.07	1	2.42	37
and		235.45	238.35	2.9	1.44	15.83
including		235.45	237.16	1.71	2.09	20.3
and		301.2	302.25	1.05	15.9	333
KL-12-123	BRX	248.85	249.85	1	5.09	37.4
and		258.33	259.53	1.2	1.89	13.9
and		277.07	278.07	1	1.02	15.05
KL-12-124	Western Klaza	7.2	9.82	2.62	1.33	42.6
and		42	43	1	0.67	49.5
and		202.94	203.94	1	1.98	72.3
and		260.75	264.59	3.84	0.95	40.1
and		291.78	292.91	1.13	1.08	34.1
KL-12-125	BRX	202.93	203.98	1.05	3.94	18.2
and		225.17	228.69	3.52	1.83	17.81
including		225.17	226.51	1.34	2.69	29.9
and		236.83	237.83	1	1.56	18.55
and		252.07	257	4.93	2.86	20.2
including		252.07	253.44	1.37	5.75	8.05
and including		255.85	257	1.15	5.36	75.8
and		265.26	266.26	1	2.49	3.33
and		269.73	270.73	1	4.96	5.95
KL-12-126	BRX	65.3	68.95	3.65	1.31	43.9
including		65.3	66.4	1.1	1.62	116
and including		67.8	68.95	1.15	2.4	22.9
and	Pika	133.7	135.3	1.6	4.4	4.06
and		145.4	147.3	1.9	2.06	23.9
and		179.92	181.97	2.05	1.58	1.54
and		189.5	190.5	1	1.56	2.5

KL-12-127	Western Klaza	37.51	38.56	1.05	1.72	94.8
and		168.11	169.11	1	5.73	204
and		186.35	187.35	1	1.41	169
KL-12-128	BRX	160.74	162.15	1.41	1.15	10.85
and		163.8	164.8	1	0.8	23.6
and		171.48	174.15	2.67	1.08	0.96
KL-12-131	Western Klaza	168.8	172.3	3.5	1.28	14.69
including		168.8	169.9	1.1	2.75	1.05
and		243.09	246.5	3.41	1.28	135
including		243.09	245.25	2.16	1.25	207
and		291.5	292.5	1	0.55	46
KL-12-132	BRX	186.88	188.36	1.48	5.11	41.1
KL-12-133	Central Klaza	104.2	105.2	1	0.82	88.4
and		136.25	137.27	1.02	1.03	28.3
and		160.63	161.63	1	1.62	105
and		237.41	239.41	2	2.36	218
including		237.41	238.41	1	3.22	400
and		260.45	261.45	1	1.92	13.6
and		292.77	293.77	1	2.13	19.3
and		334.3	336.1	1.8	2.78	29
and		359.93	360.93	1	0.66	265
and		383.27	384.27	1	0.97	16
and		422.76	423.76	1	1.57	55.3
and		439	445.7	6.7	11.9	5.23
including		439	440	1	5.25	8.32
and including		442.7	445.7	3	24.5	3.39
KL-12-134	BRX	65.6	66.9	1.3	0.36	53.1

KL-12-135	BRX	433.51	436.15	2.64	3.66	112
including		434.7	436.15	1.45	5.87	197
KL-14-136	BRX	58.3	58.8	0.5	2.98	12.5
KL-14-137	secondary	24.42	27.41	2.99	1.92	29.8
and	BRX	110.87	112.28	1.41	10.6	32.2
including		111.4	111.71	0.31	38.9	107
and		125.15	128.1	2.95	26.9	181
including		125.15	126.46	1.31	56.4	318
KL-14-138	BRX	131.8	132.43	0.63	40.5	536
KL-14-139	secondary	98.05	98.81	0.76	1.98	13
KL-14-141	secondary	109.4	110.35	0.95	1.84	13
and	BRX	137.21	138.31	1.1	29.9	660
KL-14-142	BRX	155.13	157.52	2.39	6.38	83.8
including		157.16	157.52	0.36	39	498
KL-14-143	BRX	118.92	120.2	1.28	2.23	47
and		123.4	125.05	1.65	28.9	669
KL-14-144	BRX	102.27	104.67	2.4	10.25	259
including		102.92	103.76	0.84	26.8	705
and		108.34	112.1	3.76	10.99	21
including		111.09	112.1	1.01	29.3	36.8
KL-14-145	BRX	96.99	99.89	2.9	10.79	121
including		96.99	97.76	0.77	13.05	310

and including		99.59	99.89	0.3	67.4	320
KL-14-146	secondary	63.36	64.36	1	3.62	24.9
KL-14-147	BRX	145.81	150.4	4.59	7.36	225
including		145.81	147.7	1.89	15.95	123
and including		149.56	150.4	0.84	4.06	946
KL-14-148	BRX	190.95	194.97	4.02	1.35	10.5
and	secondary	210.2	210.47	0.27	4.31	148
KL-14-149	BRX	60	60.95	0.95	0.76	2.51
KL-14-149		67.68	71.35	3.67	1.39	4.58
KL-14-149		76.03	77.53	1.5	0.51	15.7
KL-14-149		84.94	87.55	2.61	0.92	12.6
KL-14-150	BRX	46.49	49.47	2.98	26.71	172
incl.		46.49	47.17	0.68	51.5	181
and incl.		48.31	49.47	1.16	38.2	333
and		57.92	58.43	0.51	1.64	36.7
KL-14-151	BRXb	142.95	144.2	1.25	1.5	77.8
and	BRX	183.95	187.16	3.21	22.43	245
and		183.95	188.18	4.23	17.37	193
incl.		183.95	184.75	0.8	31	310
and incl.		186.44	187.16	0.72	64.9	725
KL-14-152	BRXb	6.24	9.66	3.42	1.63	5.54
and	BRX	61.2	64.24	3.04	7.86	61.3
incl.		62.14	62.83	0.69	25.2	163

KL-14-153	BRXb	17.37	18.09	0.72	8.74	71.2
and	BRX	63.3	67.1	3.8	4.47	23.8
incl.		66.7	67.1	0.4	19.1	112
and		71.45	73.51	2.06	14.3	142
incl.		72.75	73.51	0.76	32.2	252
and		63.3	73.51	10.21	4.59	38.1
KL-14-154	BRX	46.7	49.27	2.57	26.39	163
incl.		46.7	47.7	1	66.2	403
and		60.05	60.38	0.33	2.74	7.04
KL-14-155	BRX	105.6	106.02	0.42	6.14	369
and		116.7	117.02	0.32	3.09	18.8
KL-14-156	BRXb	114.03	114.5	0.47	6.05	101
and	BRX	196.32	198.81	2.49	5.68	253
incl.		197.84	198.81	0.97	14.3	513
KL-14-157	BRX	69.59	71.33	1.74	9.65	240
incl.		69.59	70.24	0.65	18.55	334
and		79.52	79.93	0.41	1.58	777
KL-14-158	BRX	144.65	146.04	1.39	12.28	123
incl.		144.65	145.57	0.92	17.27	175
and		163.12	163.88	0.76	27.84	291
incl.		163.12	163.62	0.5	42	432
KL-14-159	PEARL	22.86	25.91	3.05	1.52	8.61
and		184.4	184.83	0.43	1.9	3.2
and		215.15	215.8	0.65	2.23	23.8
KL-14-160	BRX	74.2	76.14	1.94	2.15	88.4
KL-14-161	BRX	36.91	37.37	0.46	0.47	110

KL-14-162	Pearl	38.35	40.08	1.73	2	7.27
and		52.25	52.7	0.45	2.94	64
KL-14-163	BRX	170.63	171.14	0.51	4.06	75.5
KL-14-165	BRX	84.3	88.35	4.05	1.3	59.9
incl.		84.3	85.34	1.04	4.7	190
KL-14-166	Central Klaza	32.37	35.52	3.15	1.62	59
incl.		32.37	32.9	0.53	3.09	118
and		48.75	49.8	1.05	1.64	147
and		70.62	71.63	1.01	0.15	154
and		98.68	100.15	1.47	2	17.4
KL-14-167	BRX	142.17	145.24	3.07	0.31	121
incl.		142.17	142.56	0.39	2.02	619
and		150.74	152.6	1.86	1.24	107
incl.		150.74	151.33	0.59	3.27	304
KL-14-168	BRX	141.93	144.38	2.45	0.55	39.9
incl.		141.93	142.34	0.41	1.68	114
and		149.1	149.55	0.45	1.84	116
KL-14-169	Central Klaza	77.28	78.46	1.18	6.01	72.7
and		88.35	95.2	6.85	0.68	10.7
incl.		94.8	95.2	0.4	6.57	116
and		126.2	126.74	0.54	3.37	112
and		138.4	141.02	2.62	3.87	38.3
incl.		140.06	141.02	0.96	7.13	46.6
KL-14-170	BRX	184.03	185.67	1.64	1.21	271
incl.		184.96	185.41	0.45	2.49	664

KL-14-171	Central Klaza	76.78	81.19	4.41	3.58	160
incl.		76.78	77.4	0.62	22.9	1100
and		137.22	137.95	0.73	11.85	56.4
KL-14-172	BRXb	180.31	182.22	1.91	2.85	20.4
and	BRX	261.29	265.74	4.45	6.65	157
incl.		261.29	262.3	1.01	27.8	656
KL-14-173	Central Klaza	74.9	76.83	1.93	3.03	39
and		104.3	105.37	1.07	1	291
KL-14-174	Central Klaza	35.92	37.39	1.47	4.08	71.1
KL-14-175	Central Klaza	87.47	88.72	1.25	1.58	128
and		129.2	130.17	0.97	4.67	34
and		142.17	144.12	1.95	1.72	12.6
and		150.05	150.65	0.6	1.98	66.6
and		185.83	187.2	1.37	1.04	58.9
and		201.35	204.6	3.25	1.67	29
incl.		201.35	202.41	1.06	2.1	62.1
KL-14-176	Western Klaza	58.61	58.86	0.25	10.25	130
KL-14-177	BRX	279.39	281.8	2.41	8.71	38.2
incl.		281.14	281.8	0.66	26.8	101
KL-14-178	Western Klaza	95.86	97.64	1.78	14.19	353
including		95.86	96.82	0.96	25.3	637
KL-14-179	Western Klaza	111.85	112.69	0.84	3.2	149

KL-14-180	secondary	45.2	46.2	1	1.64	361
and	Western Klaza	249.55	250.61	1.06	20.6	93.8
KL-14-181	BRX	285.06	287.45	2.39	10.21	115
incl.		286.34	287.45	1.11	20.73	235
KL-14-182	Klaza	183.89	184.71	0.82	14.6	778
KL-14-183	BRXb	163.68	164.84	1.16	3.62	107
and	BRX	225.44	226.01	0.57	2.88	16
and		231.52	232.16	0.64	2.99	53.2
and		261.22	261.59	0.37	35.5	359
KL-14-184	Western Klaza	163.62	170.65	7.03	3.55	41.6
including		163.62	163.86	0.24	12.6	1130
and including		169.99	170.65	0.66	30.9	5.28
KL-14-185	secondary	49.3	50.3	1	0.66	314
and	Western Klaza	147.17	149.74	2.57	3.94	270
including		147.17	148.85	1.68	5.2	168
KL-14-186	BRX	219.02	221.2	2.18	10.23	298
incl.		219.02	219.76	0.74	3.79	593
and incl.		220.74	221.2	0.46	41.8	433
KL-14-187	secondary	39.82	40.96	1.14	3.13	8.85
and	Western Klaza	203.3	203.82	0.52	8.35	96
and		212.26	212.52	0.26	5.11	420
KL-14-188	BRX	211.25	213.05	1.8	2.08	3.81
and		215.28	218.75	3.47	9.86	220
incl.		217.28	218.75	1.47	21.5	323

KL-14-189	Western Klaza	133.45	136.36	2.91	4.35	159
including		133.45	134.39	0.94	5.8	250
KL-14-190	Western Klaza	121.08	122.21	1.13	2.84	25.3
and		140.19	140.55	0.36	6.59	107
KL-14-192	BRX	230.3	235.13	4.83	2.08	30.6
incl.		230.3	231.2	0.9	8.92	63.5
KL-14-193	Central Klaza	157.49	158.11	0.62	2.63	53.3
and		180.5	180.7	0.2	2.25	169
and		249.84	253	3.16	2.59	9.16
incl.		252.71	253	0.29	23.6	55.1
KL-14-194	BRX	63.23	63.95	0.72	6.05	318
and		72.4	73.65	1.25	2.84	185
incl.		72.75	73.65	0.9	3.84	241
KL-14-195	BRX	214.94	218.57	3.63	3.21	18.7
incl.		214.94	215.51	0.57	6.14	44
and incl.		218.23	218.57	0.34	13.3	68.1
KL-14-196	BRX	57.72	62.33	4.61	1.92	214
incl.		57.72	58.78	1.06	2.65	359
and incl.		59.26	60.05	0.79	4.87	457
KL-14-197	BRX	79.7	80.43	0.73	6.76	978
KL-14-198	BRX	69.28	70.53	1.25	3.56	102
incl.		70.26	70.53	0.27	14.9	412
and		79.68	80.75	1.07	7.74	156
incl.		79.68	80.3	0.62	13.2	266

KL-14-199	Central Klaza	104.18	104.66	0.48	2.29	116
and		114.2	114.69	0.49	2.65	85
and		193.3	193.82	0.52	3.87	111
and		284.56	285.09	0.53	31.8	481
and		339.3	342.28	2.98	2.56	33.7
incl.		339.3	340.25	0.95	6.23	82
and		360.12	362.57	2.45	11.13	65.9
incl.		360.12	360.37	0.25	37.7	111
and incl.		362.25	362.57	0.32	55.3	406
and		377.15	377.67	0.52	2.3	122
KL-14-200	BRX	60.28	62.43	2.15	1.04	63.1
incl.		60.28	60.58	0.3	2.7	99.9
KL-14-201	Western Klaza	47.05	47.91	0.86	1.9	32.5
KL-14-202	BRX	69.05	69.35	0.3	2.49	80.2
KL-14-203	BRX	67.72	68.38	0.66	1.89	102
KL-14-204	Western Klaza	33.22	33.71	0.49	0.59	62.2
KL-14-205	BRX	76.76	79.11	2.35	1.28	104
incl.		77.51	78.33	0.82	2.49	203
KL-14-206	Western Klaza	83.7	85.71	2.01	2.56	757
KL-14-207	BRX	71.72	80.08	8.36	0.91	80
incl.		71.72	72.43	0.71	3.2	121
and incl.		74.33	74.93	0.6	5.4	110
and incl.		78.38	78.78	0.4	1.92	683
and incl.		79.73	80.08	0.35	1.96	582

KL-14-208	secondary	70.12	71.5	1.38	2.62	2.82
and	Western Klaza	129.38	129.89	0.51	16.45	208
KL-14-209	BRX	63.37	63.83	0.46	3.03	52.3
KL-14-210	Central Klaza	87.74	88.04	0.3	0.84	234
and		278.15	279.5	1.35	5.7	19.6
and		285.28	286.2	0.92	8.52	232
and		303.68	305.75	2.07	2.33	18.3
incl.		303.68	304.17	0.49	8.1	46.9
and		348.65	349.97	1.32	5.65	466
incl.		349.65	349.97	0.32	16.6	1900
KL-14-211	BRX	85.79	86.09	0.3	3.23	25
KL-14-212	Western Klaza	75.96	76.12	0.16	14.2	872
and		89.84	90.21	0.37	2.14	244
KL-14-213	BRX	56.61	57.71	1.1	7.79	128
incl.		57.04	57.71	0.67	12.15	196
KL-14-214	secondary	25.61	26.24	0.63	1.64	145
and	Western Klaza	72.27	73.54	1.27	7.74	427
including		72.27	72.7	0.43	14.35	1160
KL-14-215	BRX	73.03	73.75	0.72	10.2	95.8
KL-14-216	Western Klaza	55.74	56.61	0.87	13.92	495
including		55.74	55.93	0.19	49.5	1320
KL-14-217	BRX	57.7	60	2.3	2.71	10.4

incl.		58	58.3	0.3	17.2	36.3
and		71.39	82	10.61	0.89	29.6
incl.		73.9	74.91	1.01	3.12	76.1
and incl.		78.44	79.92	1.48	1.9	82.6
KL-14-218	Western Klaza	45.46	49.99	4.53	4.46	176
including		45.46	46.24	0.78	15.25	789
and including		49.69	49.99	0.3	25.1	544
KL-14-220	BYG	6	7.08	1.08	0.13	90.5
and		12.35	13.3	0.95	1.64	43.5
and		34.13	35.75	1.62	0.97	18.8
and	Western Klaza	267.63	270.06	2.43	2.82	61.2
including		269.6	270.06	0.46	9.83	305
and		277.19	278.65	1.46	15.38	741
including		277.19	277.72	0.53	33.2	1625
KL-14-221	Western Klaza	95.28	97.44	2.16	2.18	37.9
including		97.14	97.44	0.3	5.04	227
KL-14-222	Central Klaza	206.4	207.07	0.67	3.46	40.3
and		223.17	223.52	0.35	3.98	124
and		275.43	276.9	1.47	5.15	179
and		410.57	412.05	1.48	8.33	201
KL-14-224	BYG	17.89	19.57	1.68	11.22	10.6
and	Western Klaza	251.5	254.53	3.03	0.59	24.5
incl.		251.5	252.07	0.57	1.72	104
KL-14-229	BRX	301.81	302.9	1.09	3.68	38.2
incl.		302.57	302.9	0.33	10.9	94.7
KL-14-231	unnamed	133.25	133.91	0.66	4.31	15.7

KL-14-232	unnamed	48.36	49.69	1.33	2.29	38.8
and	Herc	196.41	196.66	0.25	8.06	175
and		204.14	204.69	0.55	6.75	25.4
KL-14-234	Pearl	97.28	99.85	2.57	2.09	5.68
and		128.79	129.2	0.41	5.97	13.6
and		263.86	264.26	0.4	4.2	15.8
KL-14-235	BRX	236.47	236.9	0.43	12.25	60.3
KL-14-238	BRX	502.44	520.94	18.5	2.19	120
incl.		519.57	520.94	1.37	16.29	1435
KL-14-239	unnamed	239.22	240.26	1.04	3.68	20.9
KL-15-240	Eastern BRX	35.05	36.05	1	3.41	2.26
including		46.9	51.6	4.7	1.24	8.54
and including		47.58	48.18	0.6	6.85	14.1
and including		51.18	51.6	0.42	2.11	41.6
and		69.33	69.83	0.5	1.72	30.7
and	Pika	107.4	110.63	3.23	3.22	48.2
including		107.4	109.81	2.41	4.08	63.5
and including		109.21	109.81	0.6	10.95	115
and	Secondary	155.77	157.58	1.81	2.02	0.87
KL-15-241	HW Central Klaza	32.77	33.57	0.8	0.8	61.4
and		134.03	134.76	0.73	2.26	29.5
and		145.33	148.77	3.44	0.66	48.4
including		145.33	145.67	0.34	5.29	214
and		205.69	206.11	0.42	1.7	161
and		222.21	222.94	0.73	1.18	4.66
and		257.96	258.35	0.39	1.89	28.2

and	Central Klaza	279.04	281.2	2.16	4.09	273
including		280.02	281.2	1.18	7.01	492
KL-15-242	Eastern BRX	44.81	47.85	3.04	1.01	85
including		47.23	47.85	0.62	2.46	156
and	Secondary	81.93	82.44	0.51	0.68	168
and	Pika	166.25	168.91	2.66	3.56	30
including		168.41	168.91	0.5	7.57	50.4
and	Secondary	174.82	178.34	3.52	1.55	12.3
including		176.98	177.73	0.75	4.9	28.5
and		190.95	191.5	0.55	3.98	16.2
KL-15-243	HW Central Klaza	20.43	20.73	0.3	0.15	183
and		53.76	54.12	0.36	0.19	814
and		75.62	76.92	1.3	0.1	99.8
and		151.2	152	0.8	1.96	38.5
and		156.61	157.04	0.43	2.11	20.3
and		206.74	207.55	0.81	2.22	512
including		207.04	207.55	0.51	3.1	720
and		336.89	337.45	0.56	1.86	42.6
and	Central Klaza	382.79	384.18	1.39	8.05	272
including		383.44	384.18	0.74	11.2	495
and	FW Central Klaza	454.99	455.29	0.3	2.95	7.54
and		489.18	489.58	0.4	2.73	295
and		492.68	492.98	0.3	3.67	314
KL-15-244	Eastern BRX	71.02	71.96	0.94	3.11	91.2
and	Secondary	99.89	102.23	2.34	0.87	3.92
and	Pika	130.57	135.28	4.71	1.07	7.14
including		132.83	133.3	0.47	7.54	49.3
and		196.84	198.59	1.75	6.01	192
including		196.84	197.68	0.84	11.55	396
KL-15-245	Secondary	105.44	105.9	0.46	2.77	837
and		137.03	137.42	0.39	0.8	259
and	Eastern BRX	151.87	152.98	1.11	1.35	18.1

and		157.37	157.73	0.36	1.05	234
and		161.42	166.93	5.51	2.21	21.4
including		161.42	161.83	0.41	7.45	129
and including		166.42	166.93	0.51	14.85	101
and	Secondary	188.5	188.8	0.3	11.05	8.26
and		193.34	194.88	1.54	1.06	0.81
and		198.01	200.09	2.08	1.29	4.34
and	Pika	205	206.35	1.35	4.06	19
including		205	205.58	0.58	8.47	42.1
and		263.46	263.77	0.31	1.01	43
and		265.09	266.17	1.08	1.67	66.8
including		265.75	266.17	0.42	3.5	168
KL-15-247	Western Klaza HW	5.18	5.76	0.58	5.51	907
and	Western Klaza	267.63	274.4	6.77	0.92	6.35
including		273.13	274.4	1.27	2.86	23.3
and	Western Klaza FW	293.62	293.96	0.34	7.28	75.5
KL-15-248	Secondary	63.69	64.59	0.9	4.27	98.1
and		73.45	76.25	2.8	3.25	40.5
including		75.37	76.25	0.88	8.79	110
and	AEX	97.32	97.74	0.42	26.9	576
and	Secondary	121.8	123.21	1.41	3.33	38.6
including		121.8	122.15	0.35	12.8	45.4
and		148.44	149.25	0.81	1.3	4.52
and		159.93	160.63	0.7	1.61	34
and		165.76	167.18	1.42	1.07	12.2
and		201.83	202.87	1.04	2.15	10.8
and		209.13	209.84	0.71	2.66	21.7
and	Eastern BRX	214.65	216.65	2	4.45	15.3
including		216.35	216.65	0.3	14.1	62.7
and		228.82	234.5	5.68	1.65	6.44
including		228.82	230.3	1.48	1	10.9
and including		233.67	234.5	0.83	9.24	19.4
and	Pika	272.48	273.22	0.74	4.68	5.3
including		272.89	273.22	0.33	8.17	8.29

KL-15-249	Western Klaza	195.36	197.5	2.14	2.84	357
including		195.36	195.76	0.4	12.1	1890
and	Western Klaza FW	235.63	236.41	0.78	2.18	313
KL-15-250	Secondary	19.55	19.89	0.34	11.25	489
and	AEX	25.92	26.24	0.32	2.91	78
and	Secondary	53.95	55.04	1.09	1.89	34.6
including		54.74	55.04	0.3	5.59	99.7
and		112.07	115.03	2.96	1	10
including		112.07	112.53	0.46	2.15	14.2
and including		113.89	114.71	0.82	2.02	24.9
and	Eastern BRX	133.43	137.5	4.07	1.1	18.4
including	Eastern BRX	136.87	137.5	0.63	4.5	51.4
and	Secondary	168.27	168.78	0.51	1.82	6.74
and		186.45	186.82	0.37	5.99	27.7
and	Pika	218.66	219	0.34	1.6	6.89
and		220.8	222.01	1.21	1.16	8.36
and		225.54	227.97	2.43	1.58	5.2
KL-15-251	Western Klaza HW	2.53	3.58	1.05	1.25	63.3
and		43.73	44.09	0.36	1.5	198
and	Western Klaza	211.79	213.35	1.56	3.62	102
including		211.79	212.09	0.3	12.55	524
and		214.9	215.34	0.44	1.34	2.29
and	Western Klaza FW	273.68	274	0.32	1.82	44.6
KL-15-252	AEX	113.53	113.87	0.34	1.37	10.3
and	Secondary	132.71	135.53	2.82	0.98	16
including		134.51	135.53	1.02	2.09	29.1
and		149.36	149.67	0.31	2.77	405
and		158.74	159.04	0.3	2.11	18.8
and		160.17	161.11	0.94	1.08	13.6
and	Eastern BRX	198	198.57	0.57	1.61	39.3

and	Eastern BRX	206.57	207.24	0.67	1.09	44.5
and	Pika	289.95	293.36	3.41	3.08	17.2
including		289.95	290.55	0.6	10.5	26.2
and including		292.96	293.36	0.4	10.4	104
KL-15-253	BYG	38.66	41.61	2.95	2.04	23.4
including		38.66	39.43	0.77	7.74	58.5
and	HW Western Klaza	72.66	74.59	1.93	1.72	27.3
and		221.57	223.05	1.48	2.56	40.5
and	Western Klaza	317.95	318.57	0.62	4.18	147
KL-15-254	HW Western BRX	227.5	227.96	0.46	1.08	45
and	Western BRX	287.23	288.42	1.19	6.67	143
including		287.23	288.12	0.89	8.16	174
and		293.91	296.01	2.1	3.57	83.9
including		295.53	296.01	0.48	13.4	325
KL-15-255	HW Central Klaza	89.29	89.59	0.3	5.85	54.1
and		132.29	132.59	0.3	1.22	11.4
and		163.59	163.89	0.3	2.78	153
and		179.09	179.39	0.3	4.12	49
and		197.88	198.18	0.3	0.25	177
and		204.63	204.93	0.3	1.85	10.9
and		263.24	263.58	0.34	0.56	85.4
and	Central Klaza	292.84	293.18	0.34	2.49	146
and		298.49	298.94	0.45	21.9	176
and	FW Central Klaza	357.44	358.4	0.96	6.9	302
KL-15-256	Western BRX	416.21	419.96	3.75	4.18	159
including		416.21	416.76	0.55	1.36	207
including		419	419.96	0.96	15.36	482
KL-15-257	HW Central Klaza	39.6	40.03	0.43	5.87	85

and		69.72	70.24	0.52	6.14	205
and	Central Klaza	93.15	94.08	0.93	0.67	80.7
and		101	110.47	9.47	1.25	22.4
including		101	102.07	1.07	5.64	81
and including		106.82	107.86	1.04	3.03	67.4
and		113.42	113.82	0.4	1.23	84.9
and		122.25	122.78	0.53	1.62	27.5
and		131.56	131.96	0.4	1.56	23
KL-15-258	Central Klaza	10.34	14.02	3.68	11.28	75.9
including		10.34	10.93	0.59	29.3	121
and including		11.58	11.95	0.37	16.35	50.8
and including		12.75	14.02	1.27	13.5	140
and	FW Central Klaza	43.93	45.91	1.98	5.05	68.7
KL-15-259	FW Central Klaza	51.38	52.34	0.96	5.99	165
KL-15-260	HW Western BRX	114.32	114.62	0.3	1.78	8.64
and	Western BRX	418.9	419.2	0.3	4.25	19.3
and		427.24	427.6	0.36	1.07	1.57
and		429.69	430.15	0.46	1.92	10.6
and		432.83	433.38	0.55	7.01	554
and		438.08	439.88	1.8	3.14	44.3
KL-15-261	Central Klaza	46.8	52.32	5.52	1.35	12.5
and	FW Central Klaza	108.01	112.29	4.28	3.41	19.2
including		109.42	111.5	2.08	5.2	24.7
and		151.41	151.73	0.32	3.01	422
and		156.37	157.05	0.68	5.53	45.9
KL-15-262	HW Central Klaza	25	25.93	0.93	6.16	65.2

including		25.4	25.93	0.53	9.81	105
and	Central Klaza	50.65	50.98	0.33	1.12	13.8
and	FW Central Klaza	67.53	67.84	0.31	2.28	12.2
and		105.14	105.81	0.67	9.84	14.6
and		144.87	145.18	0.31	31.6	100
and		175.42	175.81	0.39	0.57	510
and		198.53	198.83	0.3	1.64	16.4
and		200.47	200.77	0.3	3.06	15.2
KL-15-263	Secondary	105.53	105.86	0.33	6.13	69.9
KL-15-264	HW Western BRX	16.2	16.5	0.3	5.69	2.4
and		124.65	124.97	0.32	1.14	11.8
and	Western BRX	148.08	148.44	0.36	1.44	15
and		158.62	159.67	1.05	18.7	489
KL-15-265	BYG	38.68	41.63	2.95	5.51	141
including		38.68	39.11	0.43	13.95	546
including		40.18	40.86	0.68	8.46	212
and		46.68	48.39	1.71	2.07	107
including		46.98	47.62	0.64	4.44	264
and	HW Central Klaza	80.89	81.46	0.57	1.24	42.3
and		192.41	192.87	0.46	1.45	25.7
and		229.9	230.86	0.96	1.19	51.7
including		229.9	230.47	0.57	1.64	77.1
and	Central Klaza	289.87	290.21	0.34	14.55	981
and		297.31	297.91	0.6	2.67	21.5
and		300.58	301.73	1.15	4.93	102
including		300.58	301.1	0.52	9.86	212
and		325.22	326.08	0.86	4.61	18.6
and	FW Central Klaza	352.91	354.47	1.56	1.88	23.3
and		378.2	378.66	0.46	2.29	64
and		412.72	413.69	0.97	1.12	7.26
and		450.73	453.17	2.44	6.71	0.54
and		480.97	481.36	0.39	1.54	38.7

KL-15-266	Western BRX	155.57	156.23	0.66	5.35	111
KL-15-267	Central BRX	221.37	221.88	0.51	3.07	29.8
and		225.93	227.15	1.22	1	31.4
KL-15-268	Central BRX	108.93	109.33	0.4	1.94	172
and		118.68	119.32	0.64	4.3	355
KL-15-269	Central BRX	199	199.89	0.89	1.1	89.2
and		209.45	209.75	0.3	0.83	63.5
KL-15-270	Central Klaza	29.87	35.96	6.09	9.46	84.9
including		30.9	32.59	1.69	22.14	254
including		33.47	33.88	0.41	10.8	5.56
including		34.75	35.29	0.54	21.4	102
and	FW Central Klaza	38.9	39.28	0.38	1.38	1.76
and		47.96	48.27	0.31	12.3	75.6
and		71.73	72.77	1.04	11.29	120
including		72.04	72.45	0.41	20	285
and		122.79	124.72	1.93	1.28	16
and		125.59	126.51	0.92	3.84	39.1
KL-15-271	Western BRX	368.26	368.56	0.3	3.21	13.4
and		372.52	373.41	0.89	8.52	374
including		372.52	372.93	0.41	15.5	655
and		378.04	380.04	2	14.88	162
including		378.04	378.34	0.3	21.4	252
and including and		379.39 383.8	380.04 384.23	0.65 0.43	34.9 0.7	369 17.2
KL-15-272	Central Klaza	94.01	94.64	0.63	1.01	6.11
and		97.48	102.84	5.36	1.89	10.9

including		97.48	98.59	1.11	5.09	14.9
and including		102.53	102.84	0.31	14.35	132
and		108.41	108.74	0.33	1.78	8.12
and		139.68	140.23	0.55	1.52	22.6
and	FW Central Klaza	192.14	192.44	0.3	7.28	173
and		220.46	220.76	0.3	2.79	40.6
and		224.06	224.36	0.3	5.76	341
and		243.23	244.26	1.03	10	25.5
KL-15-273	HW Central Klaza	18.16	18.49	0.33	2.03	139
and		39.06	42.83	3.77	1.35	17.7
including		42.44	42.83	0.39	11.2	135
and		68.19	68.6	0.41	1.48	16.8
and		77.93	78.23	0.3	1.62	145
and		82.18	82.51	0.33	2.27	51.3
and		107.74	108.04	0.3	4.2	73.3
and	Central Klaza	144.18	144.5	0.32	3.71	59
and		163.74	165.16	1.42	1.05	40.1
and		171.19	171.95	0.76	1.44	16.7
and		182.31	184	1.69	4.21	61.4
including		183.15	183.47	0.32	17.45	110
and		190.59	191.02	0.43	1.51	5.33
and		195.48	195.78	0.3	3.37	26.2
KL-15-274	Western BRX	367.65	368.91	1.26	9.97	471
including		368.47	368.91	0.44	12.75	727
and		371.96	372.44	0.48	8.15	107
KL-15-275	HW Central Klaza	83.58	84.01	0.43	1.74	64.3
and		152.06	152.38	0.32	7.31	240
and	Central Klaza	259.67	260.04	0.37	1.15	17.7
and		369.58	371.97	2.39	5.29	132
and	FW Central Klaza	424.33	424.68	0.35	4.13	510
KL-15-276	Western BRX	423.39	424.01	0.62	9.6	173

including		423.39	423.7	0.31	18	318
KL-15-277	HW Central Klaza	27.51	27.81	0.3	0.99	104
and		112.1	112.41	0.31	3.83	201
and	Central Klaza	157.83	158.48	0.65	2.18	18
and		181.61	182.08	0.47	1.88	77.5
and		184.74	185.25	0.51	1.92	56.4
and		206.53	207.26	0.73	7.75	36
and	FW Central Klaza	233.42	235.49	2.07	1.65	5.49
and		242.98	243.5	0.52	5.59	77
KL-15-278	Western Klaza	225.91	226.34	0.43	2.69	14
and		239	240.86	1.86	9.12	90.5
including		239	239.39	0.39	29.9	370
and		247.1	247.4	0.3	6.21	2.53
and		248.78	249.87	1.09	1.04	2.45
and		253.18	255.26	2.08	1.26	57.4
KL-15-279	HW Western BRX	371.84	372.56	0.72	2.73	0.72
and	Western BRX	460.68	461.13	0.45	4.76	85
KL-15-280	Secondary	16.89	17.21	0.32	1.63	2.15
and	BYG	78.13	78.44	0.31	6.53	2.56
and		87	88.08	1.08	1.77	73.3
and		92.21	92.7	0.49	2.16	0.64
and		113.73	114.08	0.35	9.84	195
KL-15-281	BYG	7.49	7.84	0.35	1	102
and		45.49	45.73	0.24	2.77	139
and		62.19	62.75	0.56	0.27	110
KL-15-282	BYG	79.52	80.09	0.57	1.62	39.9
and		82.77	87.48	4.71	1.45	49.2
including		85.06	85.39	0.33	7.26	452

KL-15-283	BYG	93.04	95.77	2.73	2.26	14.4
including		95.28	95.77	0.49	9.76	43.7
and	HW Central Klaza	151.57	151.96	0.39	4	35.7
KL-15-284	BYG	63.53	63.84	0.31	1.95	48
KL-15-285	BYG	73.58	73.93	0.35	0.48	98
and		76.6	76.9	0.3	0.16	334
and		92.31	93.39	1.08	3.19	6.94
including		92.31	92.85	0.54	5.81	9.61
and		95.25	95.74	0.49	1.42	7.06
and		97.64	98.9	1.26	1.81	6.37
and		101.96	102.29	0.33	1.47	4.24
and	HW Central Klaza	122.53	124.05	1.52	1.34	19.8
KL-15-286	HW Western BRX	328.81	329.11	0.3	1.01	8.99
and	Western BRX	353.49	355.93	2.44	2.55	30.3
including		355.63	355.93	0.3	8.32	113
KL-15-287	BYG	48.53	49.35	0.82	0.88	83.1
and		78.99	79.44	0.45	1.14	82.4
and	HW Central Klaza	95.4	95.7	0.3	0.49	74.2
and		97.52	97.83	0.31	1.47	17.6
KL-15-288	HW Central Klaza	36.55	37.1	0.55	1.31	8.2
and	Central Klaza	66.68	71.14	4.46	2.12	153
including		66.68	66.99	0.31	10.15	870
and		69.14	69.82	0.68	6.04	575
and	FW Central Klaza	106.9	109.11	2.21	3.8	187
including		108.43	109.11	0.68	7.46	541
and		111.92	112.24	0.32	1.52	21.7

KL-15-291	HW Western BRX	330.29	331.77	1.48	4.88	4.85
and	Western BRX	381.71	386.14	4.43	5.89	75.6
including		381.71	382.44	0.73	31.48	135
and including		385.66	386.14	0.48	1.68	454
and		388.31	389.56	1.25	4.02	150
KL-16-295	Stroshein	60.23	60.82	0.59	23	43
KL-16-300	Stroshein	255.12	265.88	10.76	2.06	5.86
including		257.89	260.98	3.09	5.29	10.97
including		26.047	260.98	0.51	25.9	26.6
KL-16-302	AEX	100.3	100.96	0.66	12.95	62.6
and		109.17	109.8	0.63	7.07	34.9
KL-16-307	BYG	75.29	75.62	0.33	3.63	483
KL-16-310	HW Central Klaza	9.16	13.4	4.24	4.21	45.6
including		11.56	12.71	1.15	13.1	119
and	Central Klaza	50.56	52.35	1.78	2.85	26.8
including		51.85	52.35	0.5	8.6	41.3
KL-16-312	Central Klaza	55.15	57.68	2.53	3.01	72.5
including		55.15	55.97	0.82	6.4	151
and	Central Klaza	82.22	83	0.78	7.18	61.6
KL-16-314	Rex	32.61	34	1.39	5.9	1.74
and		39.75	41.17	1.42	10.55	44.7
and		57	58.48	1.48	7.74	23.9
KL-16-315	HW Central Klaza	9.88	11	1.12	7.64	94
and	FW Central	156.7	159.1	2.4	3.55	31.7

	Klaza					
		158.4	159.1	0.7	11.5	91.6
KL-16-316	HW Central Klaza	8.8	14.79	5.99	1.68	23.1
including		8.8	9.46	0.66	8.65	76.7
and	FW Central Klaza	157.73	158.77	1.04	6.37	26.5
KL-16-317	HW Central Klaza	17.72	22.04	4.32	17.01	121
including		17.72	19.34	1.62	12.45	41.5
and including		20.65	22.04	1.39	38	325
KL-16-318	HW Central Klaza	16.68	24.77	8.09	3.48	88.4
including		17.75	18.59	0.84	10.35	196
and including		24.21	24.77	0.56	33.2	957
KL-16-323	Central Klaza	61.72	63.62	1.9	4.88	51.4
including		61.72	62.24	0.52	15.25	115
and	FW Central Klaza	186.46	189.22	2.76	5.98	40.9
including		186.46	186.88	0.42	18.9	197
and including		188.71	189.22	0.51	16.6	55
KL-16-325	FW Central Klaza	128.58	130.09	1.51	6.36	299
KL-16-327	Eastern Klaza	48.84	51.56	2.72	2.47	6.76
including		48.84	49.5	0.66	8.16	25.3
and		86.34	87	0.66	6	162
KL-16-329	Eastern Klaza	72.49	74.27	1.78	5.41	129
KL-16-336	Stroshein	109.89	110.45	0.56	3.23	248

KL-16-337	Central Klaza	92	96.4	4.4	4.01	36
and	FW Central Klaza	164.59	167.05	2.46	10.25	52.9
KL-16-338	Central Klaza	64.12	67.57	3.45	6.61	74.7
including		64.83	65.28	0.45	31.6	164
including		66.93	67.57	0.64	8.51	222
KL-17-339	Central Klaza	18.25	18.7	0.45	1.73	9.18
and		37.98	41.76	3.78	3.79	48.2
incl.		37.98	38.22	0.24	12.75	223
and incl.		41	41.76	0.76	14.75	167
KL-17-341	Central Klaza	25.22	26.05	0.83	36.9	1280
and		35	38.75	3.75	1.79	21.2
and		43.3	43.7	0.4	11.55	305
and		71.01	71.98	0.97	0.24	140
and		73.06	74.93	1.87	0.8	121
KL-17-342	Central Klaza	26.19	26.76	0.57	9.99	63
and		62.77	63.36	0.59	1.5	283
and		66.36	67.15	0.79	1.26	13.3
and		83.5	90.3	6.8	1.41	8.49
and		98.7	103.17	4.47	3.64	89.7
incl.		102.54	103.17	0.63	19.5	554
KL-17-343	Central Klaza	88.4	89.03	0.63	4.61	87.5
and		98.31	103	4.69	4.13	205.1
incl.		101.84	103	1.16	12.65	419
KL-17-344	Central Klaza	6.2	7	0.8	7.37	112
and		17.79	18.74	0.95	4.49	57
and		39.2	48.18	8.98	2.09	49.9
incl.		41.43	42.56	1.13	14.1	331

KL-17-345	Central Klaza	8.23	9.48	1.25	1.84	5.36
and		25.55	31	5.45	1.86	24
and		52.67	53.25	0.58	2.36	46.4
KL-17-346	Central Klaza	26.61	29.57	2.96	4.78	22.7
and		40.34	40.68	0.34	6.26	32.6
and		45.19	45.75	0.56	1.1	71.9
and		59.55	61.36	1.81	2.08	12.9
and		66.11	67.27	1.16	1.9	5.21
and		73.46	74.74	1.28	1.78	13.2
and		84.78	86.34	1.56	2.83	41.6
and		110.88	111.65	0.77	1.03	8.1
KL-17-348	Central Klaza	20.42	21.15	0.73	1.09	79.2
and		33.62	35	1.38	1.29	12.8
and		44.32	45.1	0.78	2.29	41
KL-17-349	Central Klaza	26.52	28	1.48	1.18	59.2
and		61.17	62.53	1.36	3.64	109
and		73.25	73.55	0.3	11	203
KL-17-350	Central Klaza	23.66	24.77	1.11	4.28	305
and		56.33	57.1	0.77	1.15	37.7
and		62.38	63.62	1.24	1.24	47.5
and		73.25	74.52	1.27	2.43	91.1
KL-17-351	Central Klaza	37.5	39.53	2.03	1.54	91.6
and		43.56	44.08	0.52	3.7	86.5
KL-17-352	Central Klaza	25.26	25.94	0.68	1.47	31
and		33.39	34.73	1.34	5.2	32.6
and		45.47	45.8	0.33	3.78	8
and		85.42	86.29	0.87	1.87	125

and		114.3	114.63	0.33	21.2	244
and		127.96	128.41	0.45	2.82	14.4
KL-17-353	Central Klaza	9.35	11	1.65	6.1	27.8
and		43.29	44.81	1.52	2.8	87
and		51.63	52.47	0.84	1.03	10
and		92.86	93.43	0.57	5.56	412
and		136.69	137.73	1.04	1.26	3
KL-17-354	Central Klaza	63.81	64.56	0.75	1.8	16.1
and		77	77.85	0.85	1.51	8.33
and		94.85	95.59	0.74	1.01	20.6
and		137.55	142.76	5.21	1.08	11.9
incl.		137.55	139.16	1.61	2.19	25.8
incl.		142.34	142.76	0.42	4.66	40.5
KL-17-355	Central Klaza	39.16	39.65	0.49	14.35	93.5
and		88	88.34	0.34	3.44	142
and		121.14	122.54	1.4	3.03	31
incl.		121.14	121.64	0.5	3.48	59.1
and incl.		122.17	122.54	0.37	6.75	35.5
and		140.3	140.69	0.39	6.17	77.5
KL-17-356	Central Klaza	12.85	14.57	1.72	4.67	48.6
and		23.65	30.63	6.98	3	32.7
incl.		23.65	27.67	4.02	4.81	54.3
and		70.13	71.4	1.27	3.34	84.9
and		150.92	152.09	1.17	1.07	34.1
and		171.85	172.39	0.54	2.16	42
KL-17-357	Pika	81.05	81.53	0.48	1.38	34.9
and		90.09	90.8	0.71	1.18	14.4
KL-17-358	Pika	127	128.21	1.21	7.24	18.5
and		135.03	135.82	0.79	4.52	15.2

and		148.23	148.53	0.3	1.2	3.91
KL-17-359	Central Klaza	49.2	50.57	1.37	4.58	119
and		76.15	76.83	0.68	1.23	42.3
and		88.37	89	0.63	2.04	51.5
KL-17-360	Central Klaza	11.8	17.72	5.92	1.86	11.4
incl.		11.8	12.2	0.4	17.45	132
and		30	44.04	14.04	1.25	8.74
incl.		30	30.53	0.53	9.18	34.2
and		107.97	108.28	0.31	2.76	33.1
and		144.17	144.48	0.31	3.19	164
KL-17-361	Pika	77.09	77.49	0.4	6.76	57.8
and		92.05	92.5	0.45	2.21	20.4
KL-17-362	Pika	121	123.22	2.22	6.57	99
and		156.57	157.03	0.46	8.67	28.2
and		180.54	181.59	1.05	3.44	59
KL-17-363	BYG	11.7	12.28	0.58	5.85	173
and		43.07	43.68	0.61	3.82	10.5
and	Central Klaza	55.7	57.4	1.7	3.03	27.9
and		56.84	57.4	0.56	6.98	63.5
and		72.73	73.32	0.59	1.81	10.4
and		92.37	92.97	0.6	1.84	21.2
and		132.2	133.75	1.55	1.95	7.24
and		142.64	143.06	0.42	3.38	70.8
and		190.77	191.45	0.68	4.18	158
KL-17-364	AEX	29.28	32	2.72	1	56.9
and	Eastern BRX	107	108	1	1.13	28.6
and		129	129.61	0.61	5.39	11.5
and		149.53	150.04	0.51	2.4	161
and		176.79	177.5	0.71	2.78	26.6

and	Pika	196.81	197.41	0.6	1.09	53.5
and		245.6	246.03	0.43	2.05	11.2
KL-17-365	Central Klaza	40	40.47	0.47	8.71	25.8
and		51.7	53.28	1.58	7.76	16.2
and		105.37	114.75	9.38	4.08	44.2
incl.		112.82	114.75	1.93	14.14	116
and		124.27	124.81	0.54	4.73	35.5
KL-17-366	Central Klaza	47.6	50.5	2.9	7.57	65.6
incl.		47.6	48.28	0.68	20.4	122
and		69.09	69.45	0.36	21.9	874
and		114.38	114.91	0.53	2.7	168
and		127.53	128.06	0.53	1.07	11
and		145.22	145.74	0.52	11.05	256
and		157.78	158.1	0.32	9.97	441
and		166.8	167.55	0.75	1.19	33.5
and		209.24	210.42	1.18	12.35	81.1
incl.		209.24	209.63	0.39	21.5	32.7
KL-17-367	Eastern BRX	92.29	92.98	0.69	4.34	235
and		96.93	97.26	0.33	1.52	457
and		104.15	104.84	0.69	5.34	109
and		142.36	142.86	0.5	3.24	27.4
and		167.56	168	0.44	5.05	220
and		171.98	172.28	0.3	9.59	594
KL-17-368	Central Klaza	23.24	25.72	2.48	3.56	85.6
incl.		24.86	25.72	0.86	8.22	241
and		39	42	3	5.16	16.7
and		102	102.51	0.51	2.04	24.6
and		143.08	143.68	0.6	6.15	50.9
and		181.32	184.63	3.31	1.43	28.6
incl.		184.27	184.63	0.36	10.6	209
and		193.92	194.47	0.55	1.2	7.08

KL-17-369	Eastern BRX	55.8	56.25	0.45	1.4	408
and		57.34	60.33	2.99	1.06	38.5
and		63.76	65.28	1.52	3.81	197
and		123.59	124.59	1	1.32	188
and		129.11	131.5	2.39	1.94	1.89
KL-17-370	Central Klaza	13.4	20.34	6.94	4.18	30.1
incl.		13.4	13.7	0.3	27.1	105
incl.		16.16	17.25	1.09	15.02	147
incl.		20.03	20.34	0.31	12.6	21.5
and		25.66	28.2	2.54	3.94	7.64
incl.		27.83	28.2	0.37	19.9	31.2
and		78.94	79.44	0.5	1.23	8.15
and	Central Klaza	101.07	101.43	0.36	1.54	34.1
and		115.84	117.72	1.88	1.37	29.6
and		147.18	148.44	1.26	1.15	41.5
and		159.85	160.44	0.59	10.05	86.6
KL-17-371	Central Klaza	87	87.67	0.67	1.46	37.4
and	Central Klaza	106.21	106.7	0.49	3.94	236
and	Central Klaza	127.53	129	1.47	1.31	46.7
incl.	Central Klaza	127.53	127.96	0.43	3.12	115
and	Central Klaza	130.32	130.71	0.39	1.44	17.6
KL-17-372	AEX	45.88	51.69	5.81	4.41	23
incl.		49	50.16	1.16	17.1	77.7
and	Eastern BRX	83.11	84.11	1	1	0.77
and		121.32	121.76	0.44	12.8	151
and		182	182.52	0.52	5.51	60.2
and	Pika	223.44	227.49	4.05	1.13	32.4
incl.		223.44	224	0.56	3.72	51.2
incl.		226.66	227.49	0.83	2.24	102
and		242.1	242.81	0.71	1.27	1.58
KL-17-373	Central Klaza	8	9.11	1.11	1.68	8.07
and		14.93	16.13	1.2	12.09	43.7

incl.		15.69	16.13	0.44	30.4	111
and		36.93	37.92	0.99	2.71	19.6
and		45.95	46.25	0.3	8.71	52.6
and		112.21	113.36	1.15	1.43	17.3
and		131.42	132.46	1.04	2.33	18.4
and		155.96	157.45	1.49	3.47	15.6
KL-17-374	Central Klaza	33.29	34.2	0.91	2.7	13.9
and		51.97	56.28	4.31	3.15	10.1
incl.		52.77	53.21	0.44	8.44	37.2
incl.		55.02	56.28	1.26	6.8	8.39
and		96.12	96.62	0.5	2.44	8.3
and		159.39	160.05	0.66	1.21	14.9
and		169.93	171.2	1.27	3.38	11.5
and		172.82	173.65	0.83	1.31	12.8
KL-17-375	Eastern BRX	18.23	19	0.77	1.42	66.8
and		70.41	70.85	0.44	2.66	294
and		126.88	127.35	0.47	17.2	21.6
and		134.7	135.12	0.42	1.78	245
and		149.16	149.66	0.5	1.66	6
and	Pika	166.03	166.48	0.45	2.6	103
and		178.2	178.69	0.49	13.2	23
KL-17-376	Central Klaza	5.61	6.03	0.42	2.99	39.3
and		25.66	26.16	0.5	2.65	31
and		77.71	80.63	2.92	7	7.12
incl.		78.78	79.37	0.59	26.7	12.1
and		90.62	91.64	1.02	1.13	4.08
and		99.33	99.94	0.61	182	231
and		112.57	113.12	0.55	1.51	10.8
and		146.92	147.55	0.63	4.04	28.5
and		149.82	150.84	1.02	2.14	7.78
and		172.9	173.88	0.98	1.58	57.2
and		189.43	191.11	1.68	1.75	3.94
and		205.17	206.17	1	8.28	101
and		217.22	217.76	0.54	1.3	8.01
and	Central BRX	152.02	152.36	0.34	2.42	12

and		155.08	156.41	1.33	1.59	30.5
KL-17-378	BYG	34.19	35.66	1.47	2.96	25.2
and	Central Klaza	120	120.55	0.32	2.29	3.46
and		132.25	132.86	0.61	1.18	7.91
and		141.26	142.04	0.78	1.08	5.07
and		145.09	145.76	0.67	5.79	5.26
and		151.74	154.5	2.76	4.5	96
incl.		153.66	154.5	0.84	12.15	231
KL-17-379	Dickson	41.6	41.97	0.37	1.91	15.3
and		55.59	56.57	0.98	3.17	40.4
and	BYG	53.75	54.05	0.3	1.79	33.5
and		68.91	69.31	0.4	12.15	277
and	Central Klaza	190.64	191	0.36	8.34	68.1
and		197.55	201.87	4.32	4.1	46.3
and		225.11	225.44	0.33	4.82	185
and		230.89	231.2	0.31	5.09	103
and		238.4	239.88	1.48	5.21	92
incl.		239.48	239.88	0.4	16.6	321
and		245.97	246.6	0.63	5.92	89.9
KL-17-381	Central Klaza	100.48	101.55	1.07	1.42	16.5
and		136.25	136.99	0.74	1.28	6.1
and		147.89	149.29	1.4	6.55	42.3
incl.		148.77	149.29	0.52	16.3	63.1
and		170.3	170.8	0.5	2.19	22.8
and		199.55	199.97	0.42	2.14	138
KL-17-382	Dickson	52.16	52.59	0.43	0.58	345
and		146.89	147.73	0.84	2.09	5.36
and		301.64	302.26	0.62	4.89	38.6
and		322.83	324.88	2.05	2.73	3.05
KL-17-383	Central Klaza	24.53	25.58	1.05	13.38	397
incl.		24.53	25	0.47	22.9	601

and		43.8	44.81	1.01	2.56	12.7
and		93.3	93.8	0.5	1.04	18.8
and		124.26	125.56	1.3	4.07	31.6
incl.		125.26	125.56	0.3	14.3	107
and		133.92	134.52	0.6	5.03	8.63
KL-17-384	Central Klaza	65.76	71.36	5.6	3.09	7.01
incl.		65.76	66.54	0.78	13.2	16.9
and		82.35	82.73	0.38	6.79	54.7
and		95.16	96.65	1.49	5.34	47.6
incl.		96.1	96.65	0.55	12	80.1
and		131.4	132.88	1.48	3.55	23.2
and		142.15	142.73	0.58	1.66	28.4
KL-17-385	Central Klaza	17.95	19	1.05	12.2	57.5
and		26.1	27	0.9	12.6	166
and		38.85	41.2	2.35	4.18	15.9
and		60.66	62.27	1.61	5.22	179
and		81.52	82.2	0.68	7.22	64.6
and		88.9	89.62	0.72	2.59	57.3
KL-17-386	Dickson	251.41	251.74	0.33	1.1	874
and		257.58	258.08	0.5	1.56	444
KL-17-387	Central Klaza	65.06	67.35	2.29	2.26	37.3
and		80.23	80.57	0.34	2.06	30.6
and		86.38	86.86	0.48	2.02	19.4
and		105.97	107.07	1.1	5	111
incl.		105.97	106.37	0.4	12.2	292
and		129.52	130.15	0.63	2.06	71.1
and		134.65	135.08	0.43	4.76	95.7
and		157.5	158.09	0.59	4.5	115
KL-17-388	Central Klaza	51.68	55.42	3.74	10.94	81.7
including		53.48	53.95	0.47	64.8	250
and		102.46	109.55	7.09	2.17	76.3

including		102.66	103.07	0.41	18.8	941
including		109	109.55	0.55	12.25	222
and		118.57	120	1.43	1.51	12.6
and		144.46	145.39	0.93	3.23	14.2
KL-17-389	Central Klaza	77.33	77.83	0.5	1.62	25.8
and		94.81	95.27	0.46	2.46	49
and		144	144.9	0.9	1.57	21.4
and		150.61	151.49	0.88	2.12	28.8
and		154.27	155.77	1.5	1.34	43.4
and		166	173.41	7.41	3.77	24.7
including		168.71	172.4	3.69	6.84	44.5
and		176.35	177	0.65	1.49	14.6
and		187.45	189.84	2.39	1.61	8.81
including		187.45	187.84	0.39	8.39	42.4
and		193	198	5	1.63	11.1
including		194.65	195.28	0.63	9.6	51.5
KL-17-391	Central BRX	174.94	176.41	1.47	1.86	150
including		176	176.41	0.41	4.57	481
KL-17-392	Central Klaza	58	60.2	2.2	1.27	14.8
and		82.52	83.13	0.61	1.46	106
and		86.64	87.08	0.44	1.49	28.2
and		99.47	101.1	1.63	2.26	32.4
and		157.92	158.74	0.82	1.94	21.2
and		166.8	168.16	1.36	21.13	116
and		177.1	179.05	1.95	2.73	28.3
and		193.32	194.14	0.82	1.26	37.5
KL-17-393	Central BRX	114	114.91	0.91	2	89.1
KL-17-394	Central BRX	116.31	117	0.69	0.52	44.1
KL-17-395	New Discovery	61.76	63.48	1.72	2.21	7.71

and		112.49	113.06	0.57	1.09	2.5
and		121.06	121.38	0.32	1.31	9.3
and		186.82	187.59	0.77	1.08	10.3
KL-17-396	Western BRX	109.12	116	6.88	13.1	78.7
including		110.45	112.77	2.32	30.8	86.8
including		110.45	110.95	0.5	64.1	177
KL-17-397	Western BRX	67.9	69	1.1	23.9	222
KL-17-398	Western BRX	119.62	126.16	6.54	17.8	257
including		119.62	120.11	0.49	57.9	1055
including		122.62	126.16	3.54	24.35	319
including		124	124.52	0.52	62.6	550
KL-17-399	Bonus	8.09	9.18	1.09	1.7	14.15
and	Western BRX	74.91	75.49	0.58	1.28	26.8
KL-17-400	Bonus	27.14	29.57	2.43	1.32	0.77
and		34.34	35.48	1.14	1.82	8.8
and	Western BRX	100.11	102.64	2.53	9.01	150
including		100.11	100.71	0.6	28.9	416
KL-17-401	Bonus	54.06	57	2.94	3.49	37.1
including		56.56	57	0.44	18.55	189
and	Western BRX	108.63	111.26	2.63	94.09	545
including		109.81	110.72	0.91	196	608
KL-17-402	Western BRX	107.96	108.29	0.33	11.6	105
and		112.86	114.6	1.74	4.44	5.75
including		114.04	114.6	0.56	12.4	14.15
and		118.78	119.23	0.45	14.65	105

KL-17-403	New Discovery	57.95	60.04	2.09	1.81	109
and		174.59	184.71	10.12	1.16	18.7
including		174.59	175.35	0.76	6.91	80.2
including		184.14	184.71	0.57	6.75	75.1
and		231.03	231.49	0.46	12.6	312
and		245.36	246.22	0.86	9.43	180
and		275.65	276.93	1.28	1.08	46.6
and		302.83	303.77	0.94	5.63	91.4
and		312.06	312.46	0.4	1.13	15.2
KL-17-404	Bonus	65.34	66.02	0.68	9.23	88.1
and	Western BRX	113.82	115.56	1.74	23.7	652
KL-17-405	Bonus	154.66	155.12	0.46	6.42	97.6
and	Western BRX	192.23	192.75	0.52	29.9	265
KL-17-406	New Discovery	50.2	50.72	0.52	1.08	9.3
and		192	192.92	0.92	2.18	80.7
and		268.51	269	0.49	6.37	5
KL-17-407	Western BRX	174.91	177.18	2.27	5.98	82.3
including		175.58	176.15	0.57	12.7	93.1
and		187.1	189.28	2.18	16	271
including		188.1	188.82	0.72	35	457
KL-17-408	Western Klaza	52.27	55.53	3.26	2.3	172
including		52.27	52.6	0.33	17.6	1520
KL-17-409	Bonus	149.56	150	0.44	2.09	40.9
and	Western BRX	186.84	194.2	7.36	3.11	150
including		190.77	192.4	1.63	5.85	301
KL-17-411	Western Klaza	49.37	50.06	0.69	2.98	3.4

KL-17-412	Western Klaza	23.74	26	2.26	8.54	674
and		29	29.41	0.41	1.83	131
KL-17-413	Western BRX	135.33	136.07	0.74	1.06	23.6
and		139.29	143.68	4.39	4.9	76.1
including		139.29	140.76	1.47	13.81	113
KL-17-414	Western Klaza	64.34	65.35	1.01	6.18	441
including		65.04	65.35	0.31	15.45	1160
KL-17-415	Western Klaza	30	31.3	1.3	2.87	156
including		31	31.3	0.3	8.16	676
and		36.25	36.6	0.35	6.22	507
KL-17-416	Bonus	71.88	72.24	0.36	1.45	131
and	Western BRX	82.05	84.43	2.38	29.7	158
including		82.05	83.24	1.19	56.18	290
KL-17-417	Western BYG	7.96	8.29	0.33	2.09	39.4
and	Western Klaza	124.51	125.46	0.95	1.65	54.4
KL-17-419	Western BYG	21.69	22.3	0.61	1.32	74.5
and	Western Klaza	115.86	118.55	2.69	8.91	452
including		117.54	118.55	1.01	22.55	927
KL-17-421	Central Klaza	59.43	60.12	0.69	1.18	5.98
and		102.33	103	0.67	3	159
and		139.81	140.69	0.88	1.85	648
and		186.8	191.85	5.05	1.43	24
KL-17-422	Western BRX	50.06	51.15	1.09	37.21	402
and		60.33	61.04	0.71	9.94	762

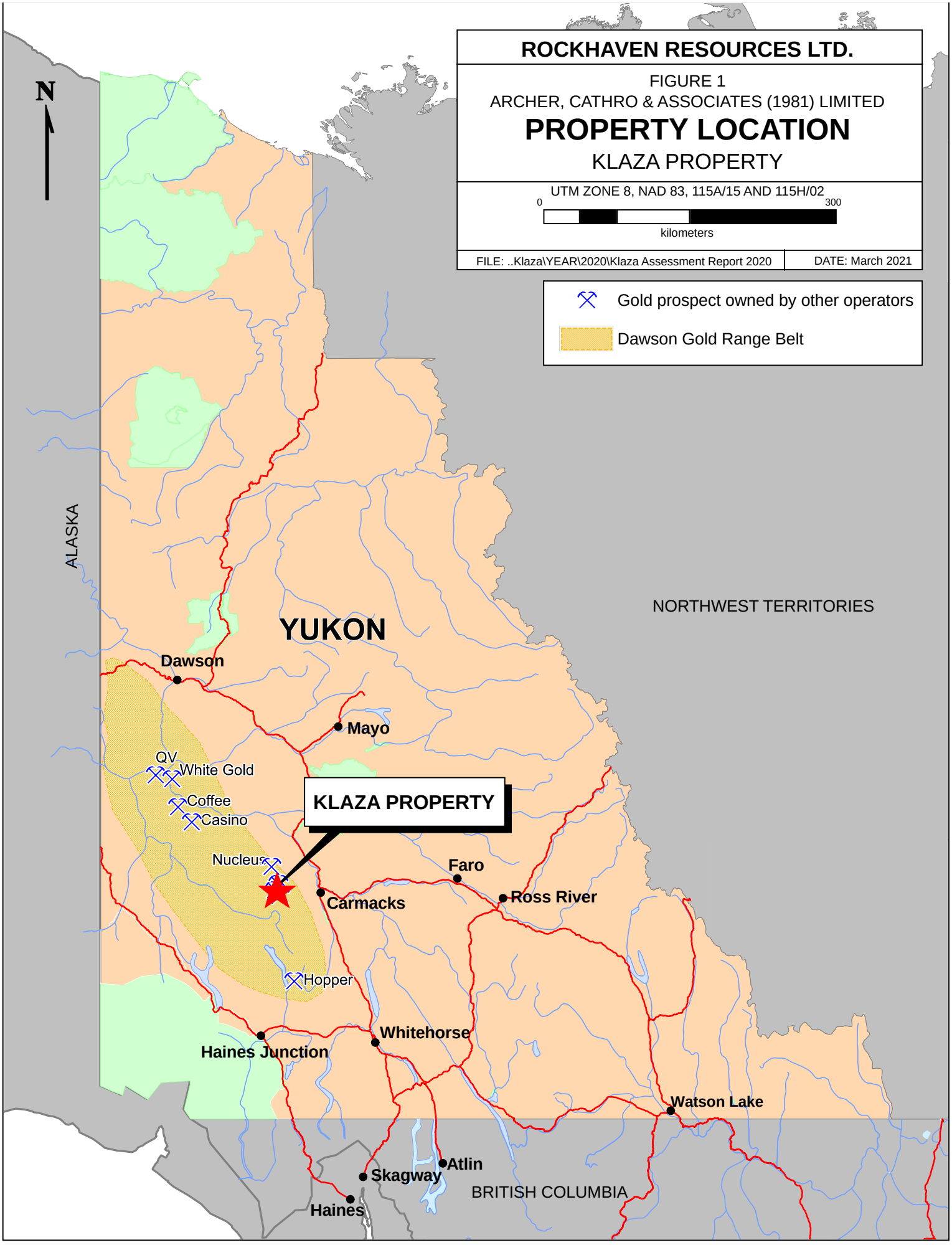
KL-17-423	Western BRX	30.01	30.67	0.66	6.27	59.8
and		40.03	40.68	0.65	1.25	3.58
KL-17-424	Western BRX	46.8	47.57	0.77	2.82	15.6
KL-17-425	Central Klaza	44.6	46.65	2.05	2.19	45
and		50.12	50.76	0.64	2.02	20.4
KL-17-426	Central BRX	65.7	67.05	1.35	3.13	67.2
KL-17-427	Central Klaza	47.42	48.36	0.94	1.03	2.36
and		55.33	64.85	9.52	1.2	22.1
including		58.85	59.47	0.62	13.8	304
and		98.04	99.18	1.14	2.9	7.24
and		116.55	117.03	0.48	5.51	483
KL-17-428	Central BRX	4.15	4.63	0.48	1.87	38.2
and		55.44	57.6	2.16	7.76	641
including		56.5	56.91	0.41	25.7	1600
and		65.82	66.31	0.49	1.34	83
KL-17-429	Central BRX	50.56	51.66	1.1	3.69	285
including		50.56	50.9	0.34	10.2	372
KL-17-430	Central Klaza	25.42	27.27	1.85	1.06	16.5
and		38.48	39.14	0.66	2.02	86.1
and		40.15	40.73	0.58	1.27	6.35
KL-17-431	Central BRX	36.34	38.71	2.37	2.52	18.15
KL-17-427	Central Klaza	47.42	48.36	0.94	1.03	2.36

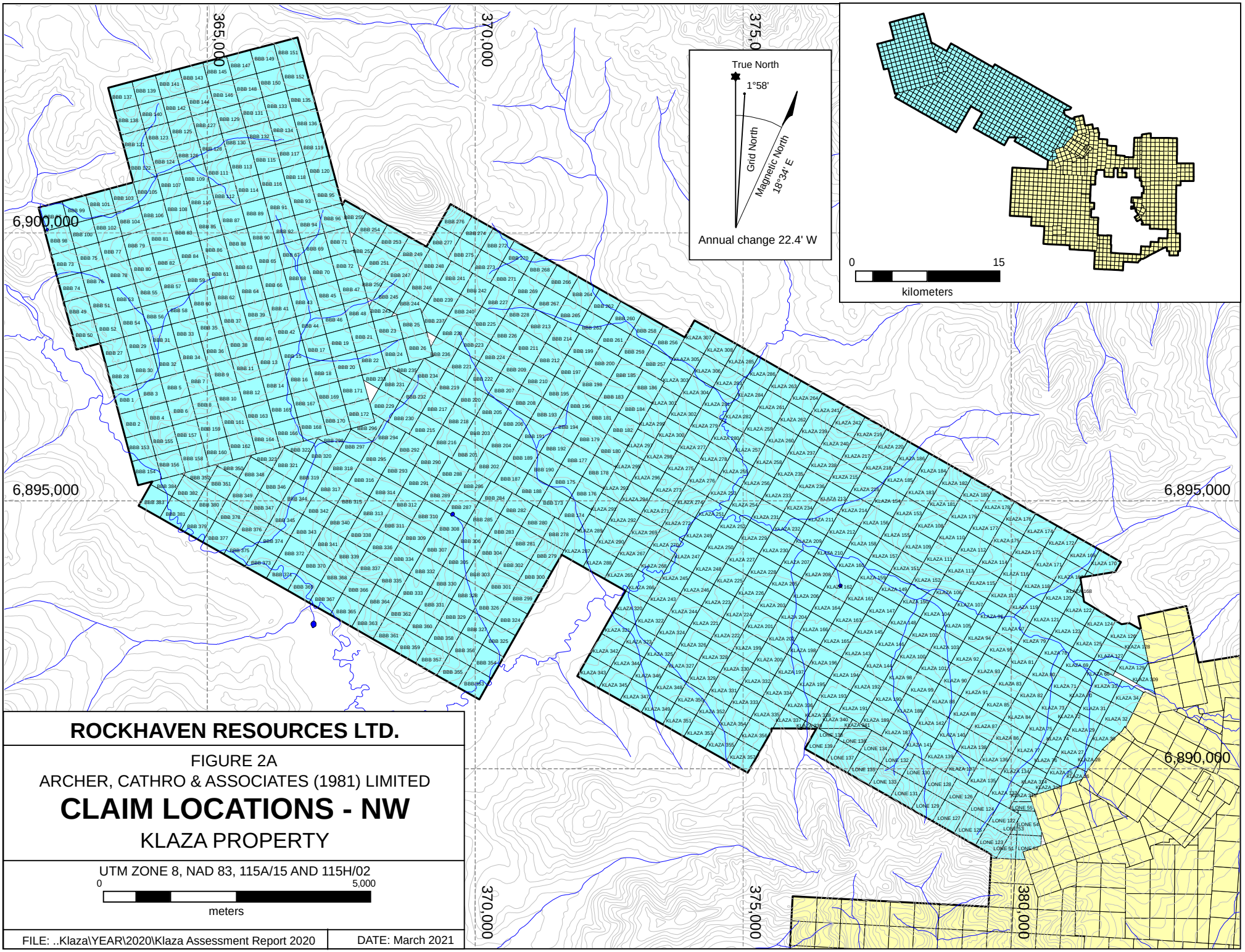
and		55.33	64.85	9.52	1.2	22.1
including		58.85	59.47	0.62	13.8	304
and		98.04	99.18	1.14	2.9	7.24
and		116.55	117.03	0.48	5.51	483
KL-17-428	Central BRX	4.15	4.63	0.48	1.87	38.2
and		55.44	57.6	2.16	7.76	641
including		56.5	56.91	0.41	25.7	1600
and		65.82	66.31	0.49	1.34	83
KL-17-429	Central BRX	50.56	51.66	1.1	3.69	285
including		50.56	50.9	0.34	10.2	372
KL-17-430	Central Klaza	25.42	27.27	1.85	1.06	16.5
and		38.48	39.14	0.66	2.02	86.1
and		40.15	40.73	0.58	1.27	6.35
KL-17-431	Central BRX	36.34	38.71	2.37	2.52	18.15
KL-19-435	Eastern Zones	70.46	70.96	0.5	11.5	90.4
KL-19-436	Central Pearl	228.17	229.65	1.48	1.57	238
KL-19-439	Central Pearl	266.63	268.23	1.6	5.28	1054
KL-19-441	Eastern Zones	63.29	65.57	2.28	3.07	13.7
KL-19-447	Eastern Zones	49.1	51.15	2.05	2.52	111
KL-19-448	Eastern Zones	117.65	137.19	19.54	0.58	9.2

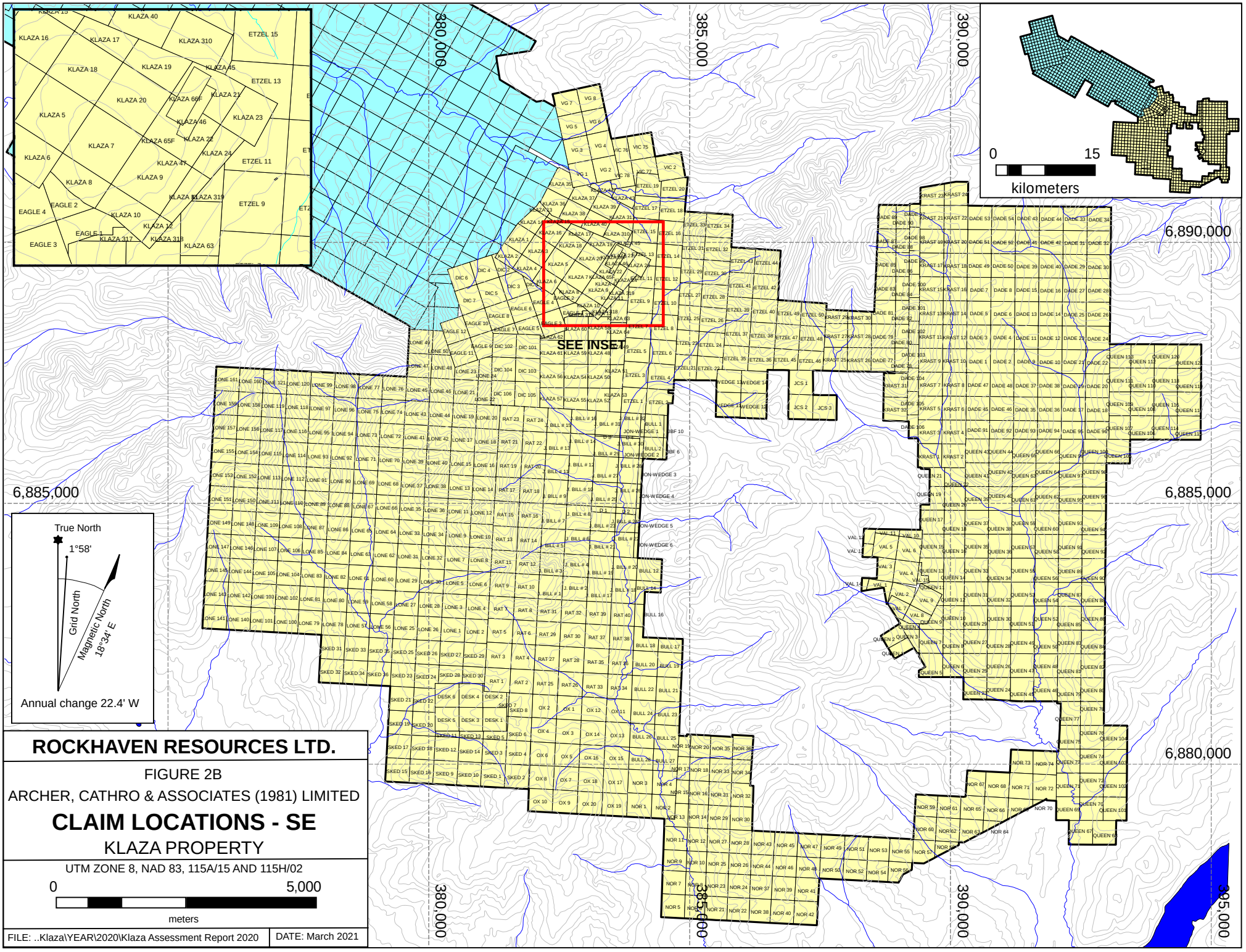
KL-19-449	Central Pearl	125.2	126.1	0.9	7.11	58.7
and		133.84	134.3	0.46	3.72	1020
KL-19-450	Eastern Zones	73.1	102.5	29.4	0.67	8.7
KL-19-451	Eastern Zones	115.28	118	2.72	3.43	20.4
KL-19-454	Eastern Zones	99.85	100.4	0.55	15.9	74.6
KL-19-455	Western Pearl	260.93	261.24	0.31	7.97	834
KL-19-459	Western Pearl	181	181.91	0.91	6.52	235
KL-19-460	Eastern Zones	28.31	29	0.69	19.4	240
KL-19-463	Eastern Zones	80	80.3	0.3	19.05	4.8
KL-19-464	Eastern Zones	126.42	127.25	0.83	3.64	691
KL-19-465	Eastern Chevron	74.63	81.68	7.05	1.53	10.2
incl.		74.63	74.93	0.3	11.4	48.2
incl.		80.35	81.68	1.33	4.15	23.1
KL-19-466	Eastern Zones	6.91	8	1.09	8.5	10.6
KL-20-469	Rusk	82.63	83.63	1	2.1	656.6
KL-20-470	Rusk	33.1	46.5	13.4	1.14	25.8
incl.		40.06	41	0.94	4.67	122

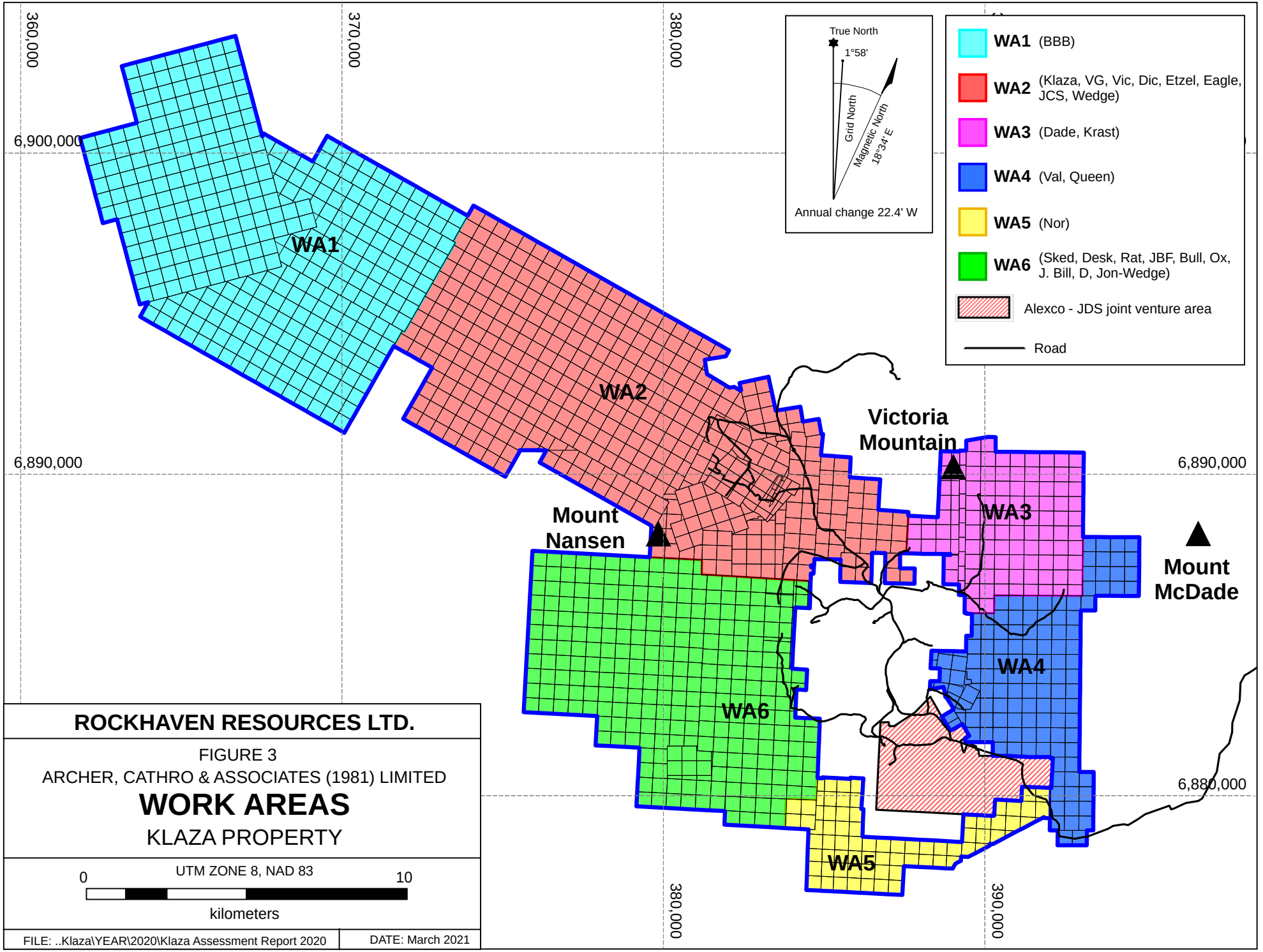
and		60	60.4	0.4	12.3	276
and		123.9	124.53	0.63	16.35	321
KL-20-471	Rusk	59.5	61.5	2	2.26	227.4
incl.		61	61.5	0.5	7.08	884
and		201	206.65	5.65	2.05	129.4
KL-20-473	Rusk	53.5	56.7	3.2	1.37	280
incl.		53.5	54.2	0.7	4.43	1230
and		115.8	117.17	1.37	6.17	229.8
incl.		116.67	117.17	0.5	16.15	581
KL-20-475	Rusk	132.6	133.1	0.5	1.14	712
KL-20-480	Eastern Pearl	135	135.5	0.5	4.75	460
and		204.85	209.6	4.75	1.2	64.7
incl.		209.3	209.6	0.3	7.49	488
and		242.4	242.75	0.4	59.8	425
KL-20-482	Victoria	296.75	297.05	0.3	9.4	128
KL-20-483	Etzel	129.25	131.5	2.25	6.57	58.9
incl.		130.54	131.5	0.96	12.8	58.4
KL-20-484	Etzel	6.15	87.78	81.63	0.25	17.2
incl.		78.25	79.75	1.5	0.13	838
KL-20-485	Victoria	7	7.5	0.5	9.8	50.2
KL-20-487	Central Klaza	528.1	530.1	2	3.18	43.5

* Represents the sample length. True widths are estimated to be approximately 80-90% of the interval.


ROCKHAVEN RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
300
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Gold prospect owned by other operators
Dawson Gold Range Belt
N
ALASKA
YUKON
NORTHWEST TERRITORIES
BRITISH COLUMBIA
Dawson
Mayo
QV
White Gold
Coffee
Casino
Nucleus
KLAZA PROPERTY
Faro
Ross River
Carmacks
Hopper
Whitehorse
Haines Junction
Watson Lake
Atlin
Skagway
Haines


365,000
370,000
375,000
6,900,000
6,895,000
6,890,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
0
15
kilometers
ROCKHAVEN RESOURCES LTD.
FIGURE 2A
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS - NW
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
5,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


380,000
385,000
390,000
395,000
6,890,000
6,885,000
6,880,000
SEE INSET
0
15
kilometers
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
ROCKHAVEN RESOURCES LTD.
FIGURE 2B
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS - SE
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
5,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WORK AREAS

KLAZA PROPERTY

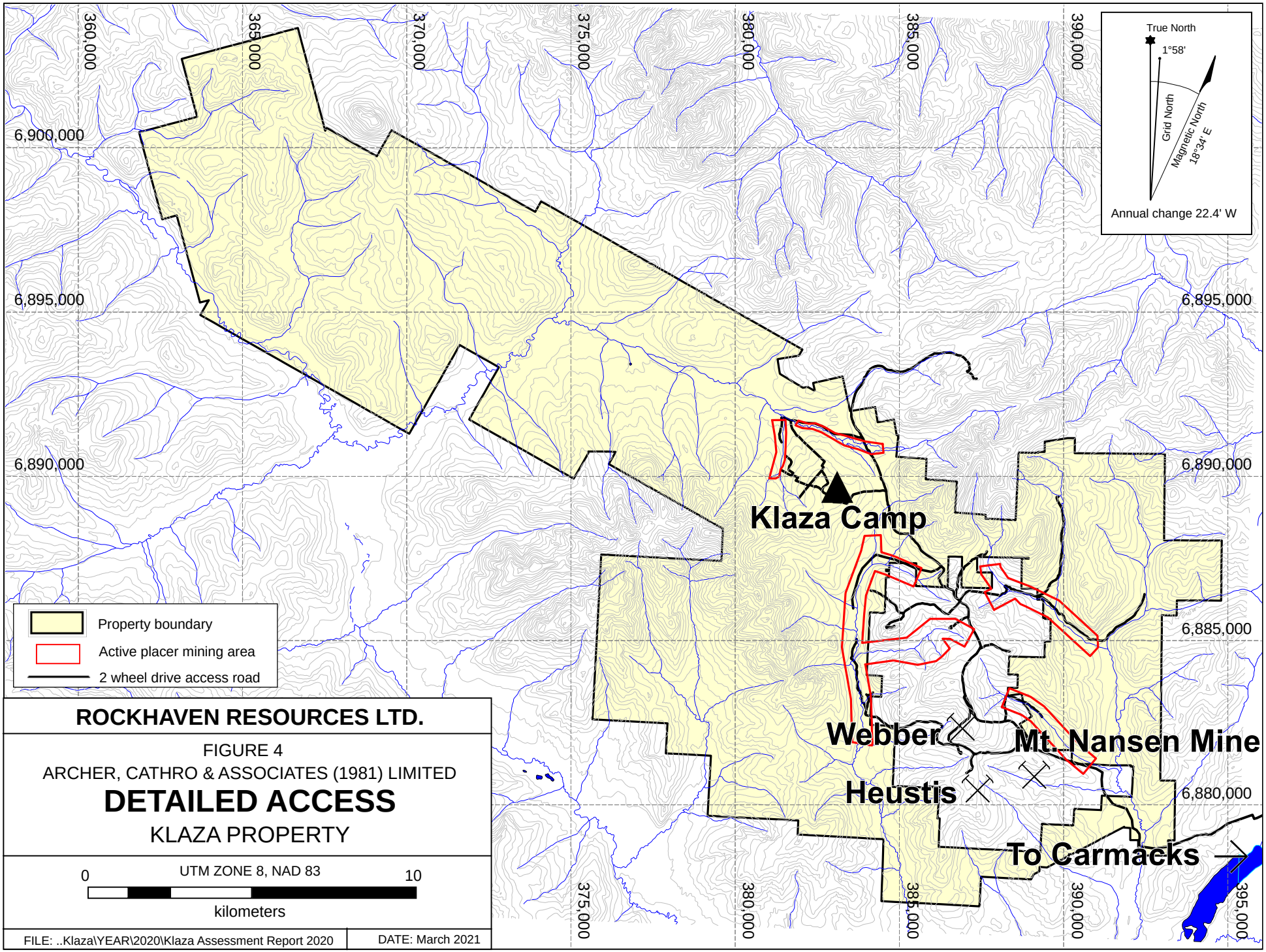
UTM ZONE 8, NAD 83

0 10

kilometers

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021


360,000
365,000
370,000
375,000
380,000
385,000
390,000
395,000
6,900,000
6,895,000
6,890,000
6,885,000
6,880,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Klaza Camp
Webber
Mt. Nansen Mine
Heustis
To Carmacks
Property boundary
Active placer mining area
2 wheel drive access road
ROCKHAVEN RESOURCES LTD.
FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DETAILED ACCESS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
10
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

ROCKHAVEN RESOURCES LTD.

FIGURE 5

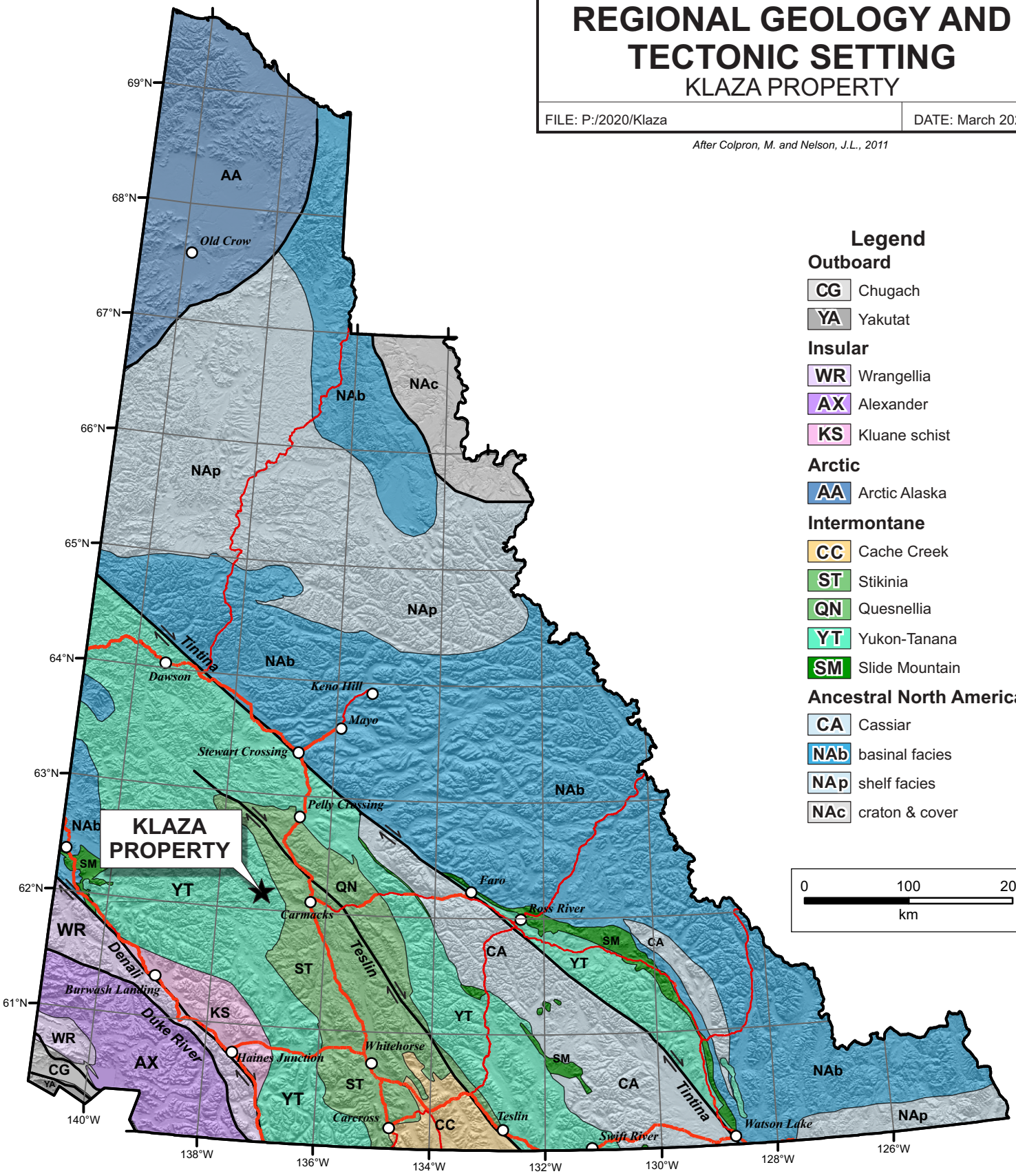
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY AND TECTONIC SETTING

KLAZA PROPERTY

FILE: P:/2020/Klaza | DATE: March 2021

After Colpron, M. and Nelson, J.L., 2011



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

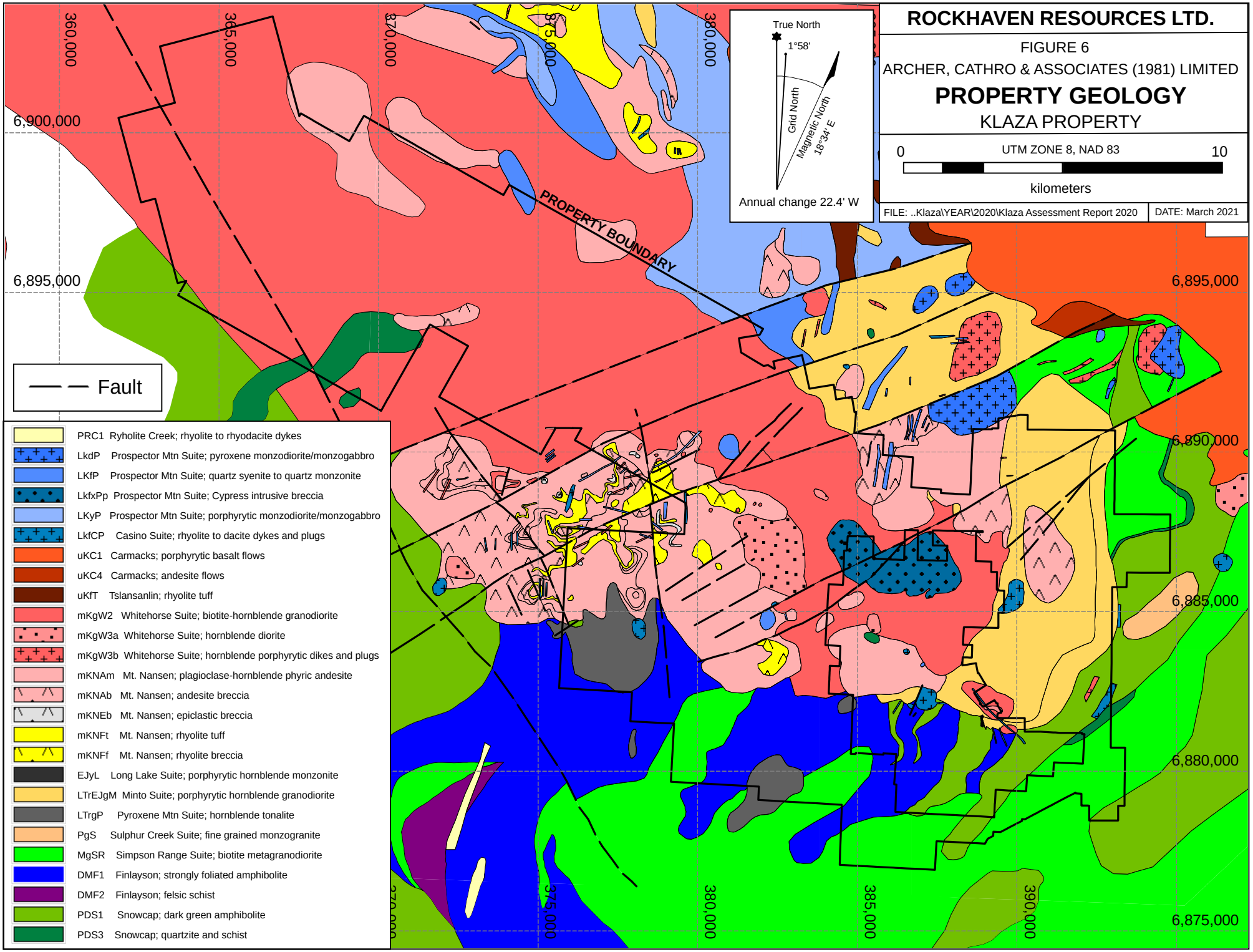
- AA Arctic Alaska

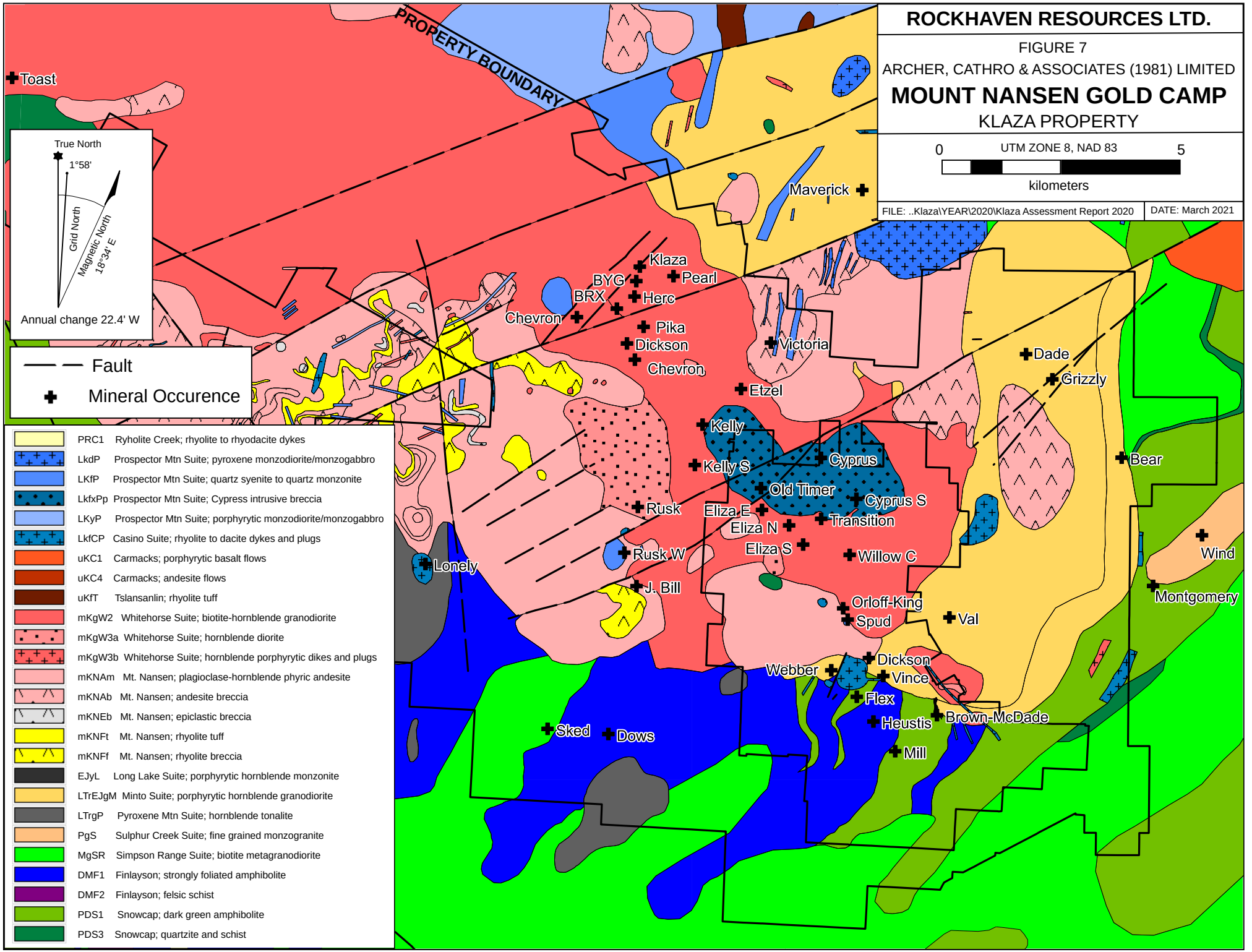
Intermontane

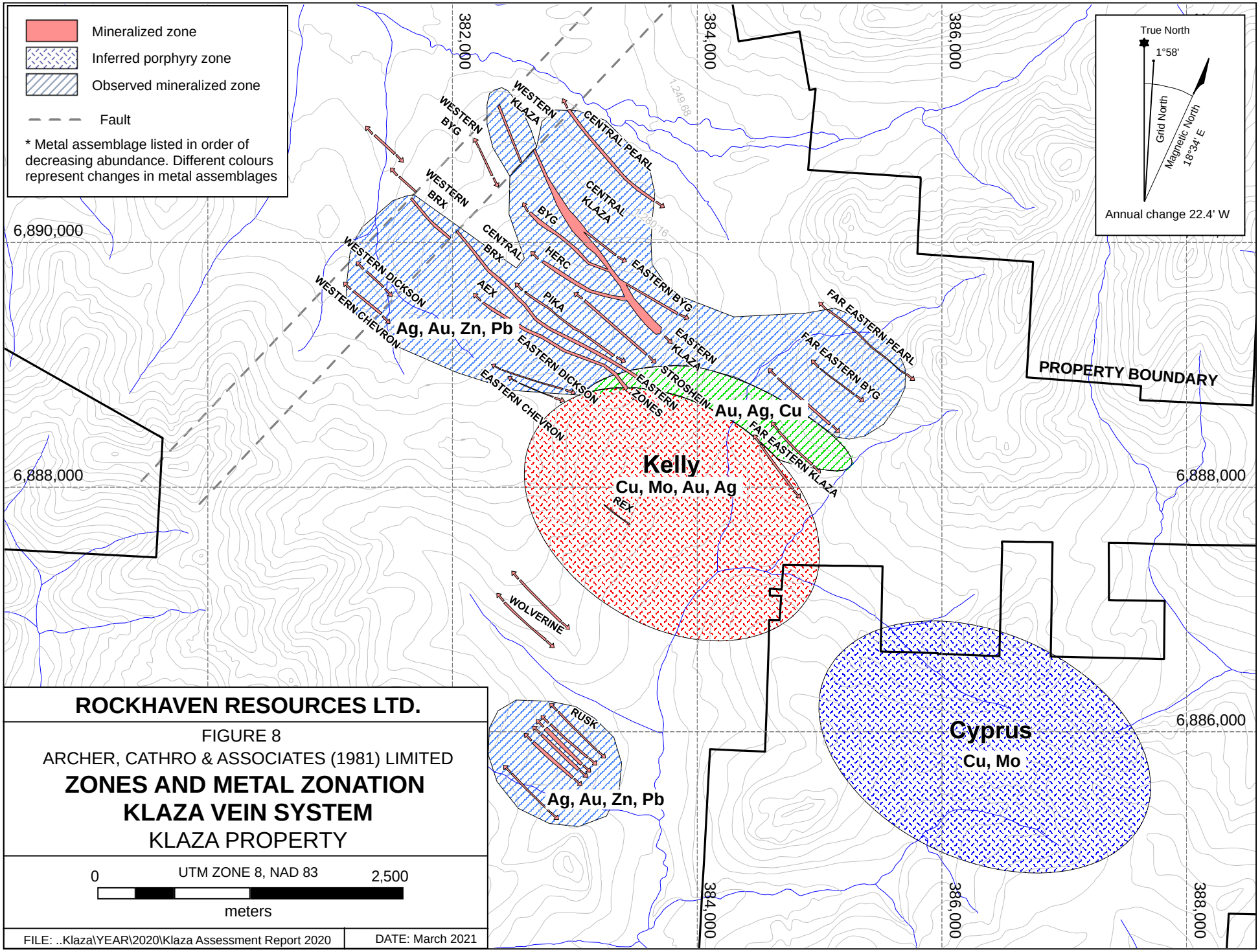
- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover


ROCKHAVEN RESOURCES LTD.
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
10
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
Fault
PRC1 Ryholite Creek; rhyolite to rhyodacite dykes
LkdP Prospector Mtn Suite; pyroxene monzodiorite/monzogabbro
LKfP Prospector Mtn Suite; quartz syenite to quartz monzonite
LkfxPp Prospector Mtn Suite; Cypress intrusive breccia
LKyP Prospector Mtn Suite; porphyrytic monzodiorite/monzogabbro
LkfCP Casino Suite; rhyolite to dacite dykes and plugs
uKC1 Carmacks; porphyrytic basalt flows
uKC4 Carmacks; andesite flows
uKfT Tslansanlin; rhyolite tuff
mKgW2 Whitehorse Suite; biotite-hornblende granodiorite
mKgW3a Whitehorse Suite; hornblende diorite
mKgW3b Whitehorse Suite; hornblende porphyrytic dikes and plugs
mKNAm Mt. Nansen; plagioclase-hornblende phyric andesite
mKNAb Mt. Nansen; andesite breccia
mKNEb Mt. Nansen; epiclastic breccia
mKNFt Mt. Nansen; rhyolite tuff
mKNFf Mt. Nansen; rhyolite breccia
EJyL Long Lake Suite; porphyrytic hornblende monzonite
LTrEJgM Minto Suite; porphyrytic hornblende granodiorite
LTrgP Pyroxene Mtn Suite; hornblende tonalite
PgS Sulphur Creek Suite; fine grained monzogranite
MgSR Simpson Range Suite; biotite metagranodiorite
DMF1 Finlayson; strongly foliated amphibolite
DMF2 Finlayson; felsic schist
PDS1 Snowcap; dark green amphibolite
PDS3 Snowcap; quartzite and schist
360,000
365,000
370,000
375,000
380,000
385,000
390,000
6,900,000
6,895,000
6,890,000
6,885,000
6,880,000
6,875,000


ROCKHAVEN RESOURCES LTD.
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MOUNT NANSEN GOLD CAMP
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
5
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
PROPERTY BOUNDARY
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Fault
Mineral Occurence
PRC1 Ryholite Creek; rhyolite to rhyodacite dykes
LkdP Prospector Mtn Suite; pyroxene monzodiorite/monzogabbro
LKfP Prospector Mtn Suite; quartz syenite to quartz monzonite
LkfxPp Prospector Mtn Suite; Cypress intrusive breccia
LKyP Prospector Mtn Suite; porphyrytic monzodiorite/monzogabbro
LkfCP Casino Suite; rhyolite to dacite dykes and plugs
uKC1 Carmacks; porphyrytic basalt flows
uKC4 Carmacks; andesite flows
uKfT Tslansanlin; rhyolite tuff
mKgW2 Whitehorse Suite; biotite-hornblende granodiorite
mKgW3a Whitehorse Suite; hornblende diorite
mKgW3b Whitehorse Suite; hornblende porphyrytic dikes and plugs
mKNAm Mt. Nansen; plagioclase-hornblende phyric andesite
mKNAb Mt. Nansen; andesite breccia
mKNEb Mt. Nansen; epiclastic breccia
mKNFt Mt. Nansen; rhyolite tuff
mKNFf Mt. Nansen; rhyolite breccia
EJyL Long Lake Suite; porphyrytic hornblende monzonite
LTrEJgM Minto Suite; porphyrytic hornblende granodiorite
LTrgP Pyroxene Mtn Suite; hornblende tonalite
PgS Sulphur Creek Suite; fine grained monzogranite
MgSR Simpson Range Suite; biotite metagranodiorite
DMF1 Finlayson; strongly foliated amphibolite
DMF2 Finlayson; felsic schist
PDS1 Snowcap; dark green amphibolite
PDS3 Snowcap; quartzite and schist
Toast
Maverick
Klaza
Pearl
BYG
BRX
Herc
Chevron
Pika
Dickson
Chevron
Victoria
Etzel
Dade
Grizzly
Kelly
Kelly S
Cyprus
Bear
Old Timer
Cyprus S
Rusk
Eliza E
Transition
Eliza N
Eliza S
Willow C
Rusk W
Lonely
J. Bill
Wind
Montgomery
Orloff-King
Spud
Val
Dickson
Webber
Vince
Flex
Brown-McDade
Heustis
Sked
Dows
Mill



ROCKHAVEN RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZONES AND METAL ZONATION KLAZA VEIN SYSTEM

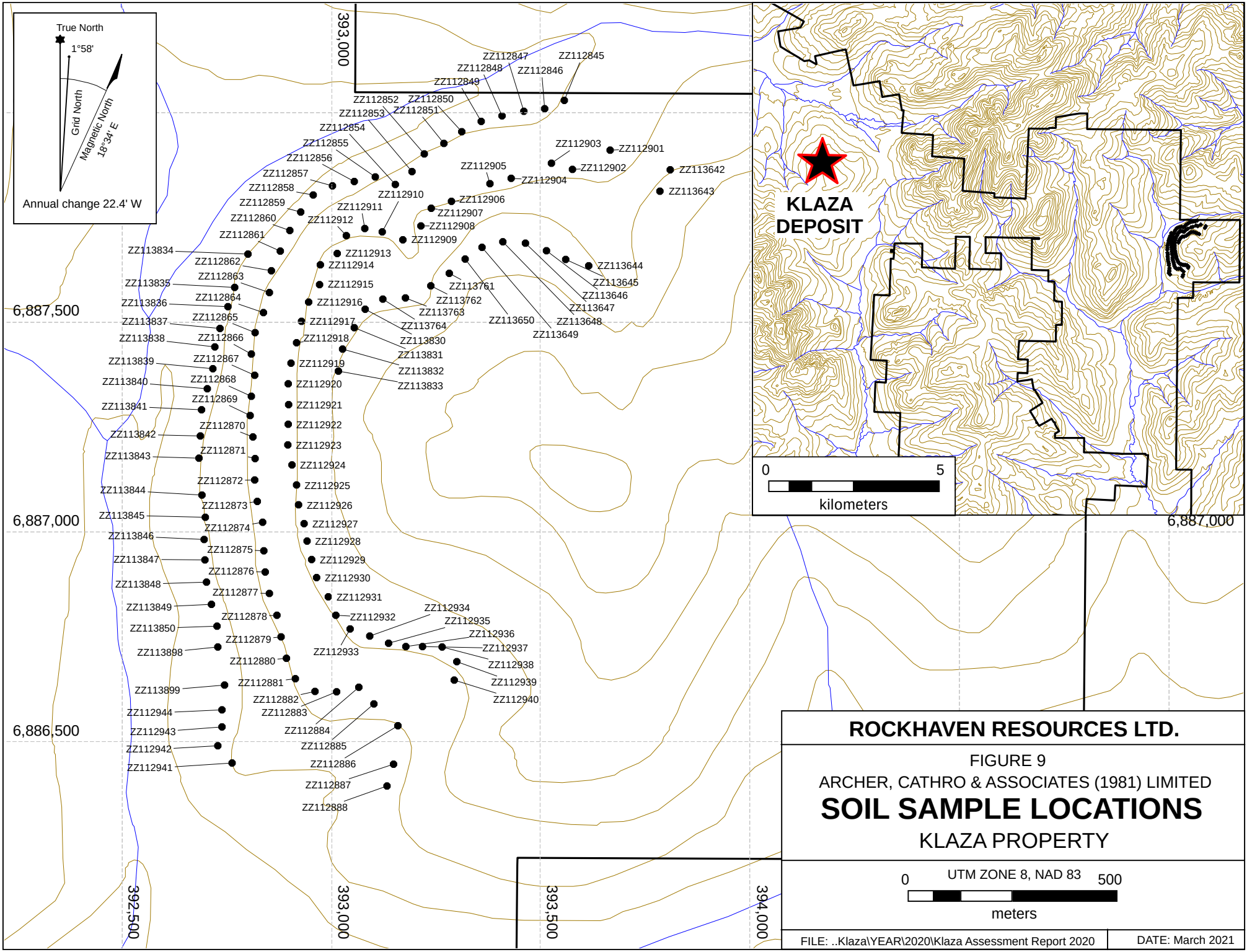
KLAZA PROPERTY

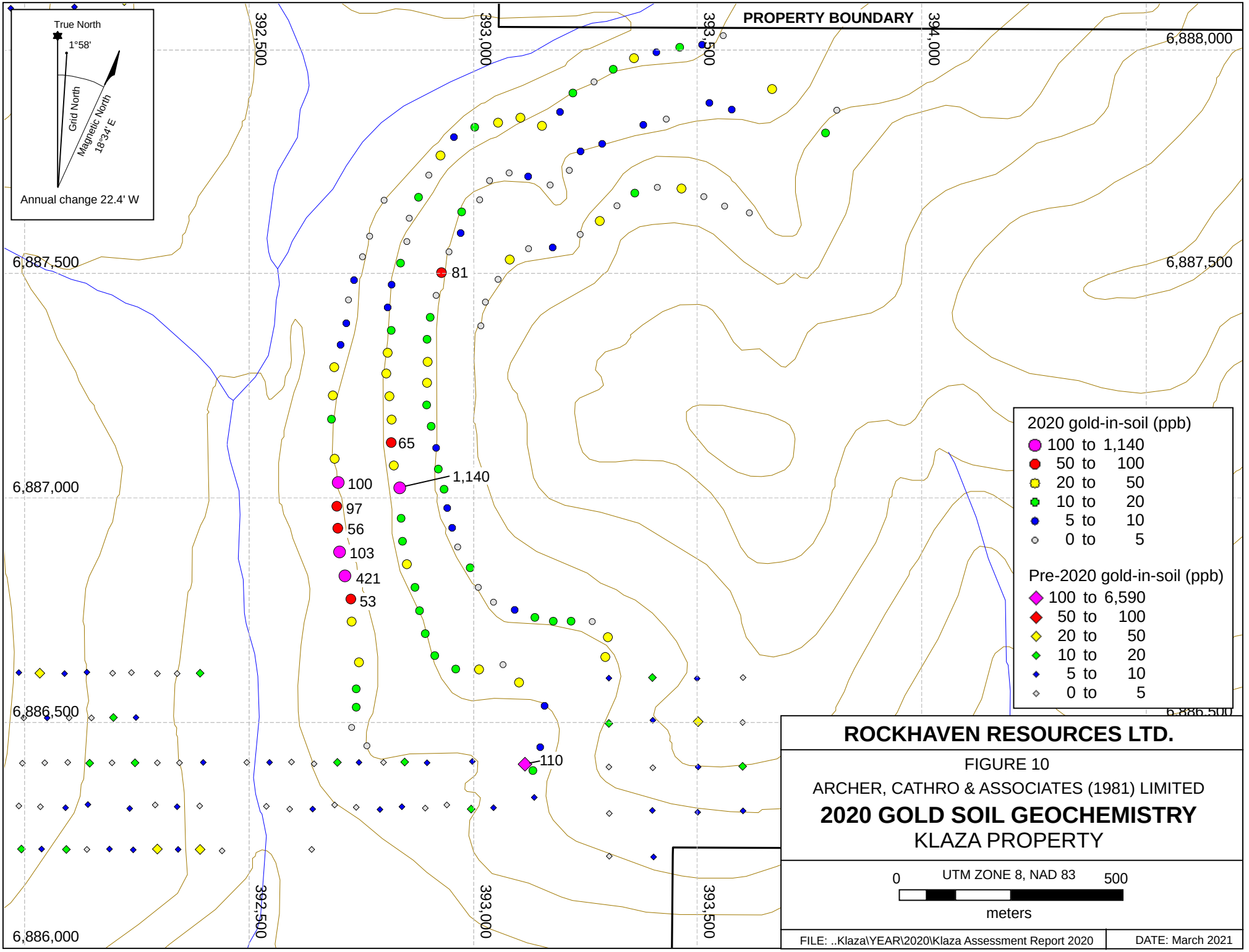
0 UTM ZONE 8, NAD 83 2,500

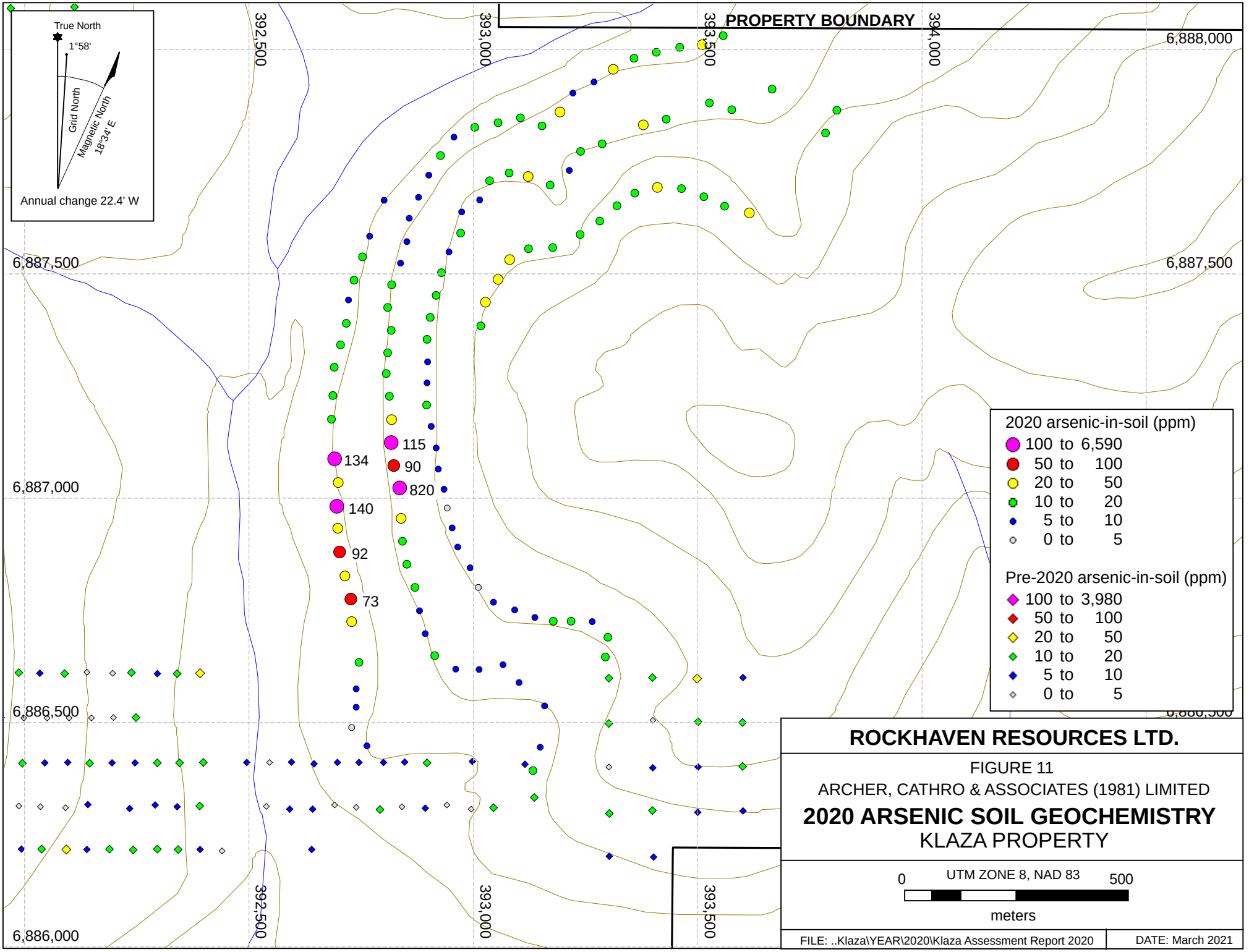
meters

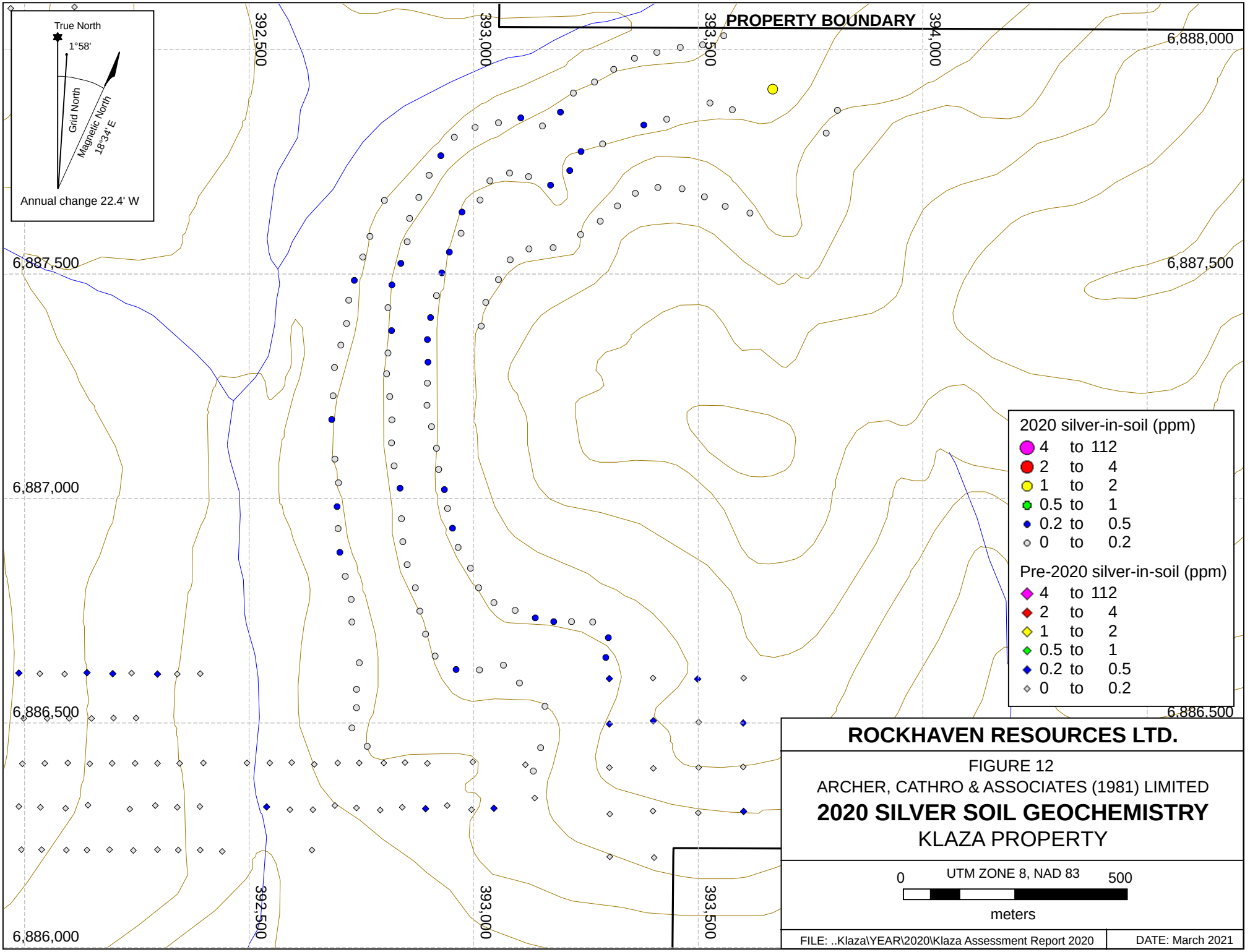
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

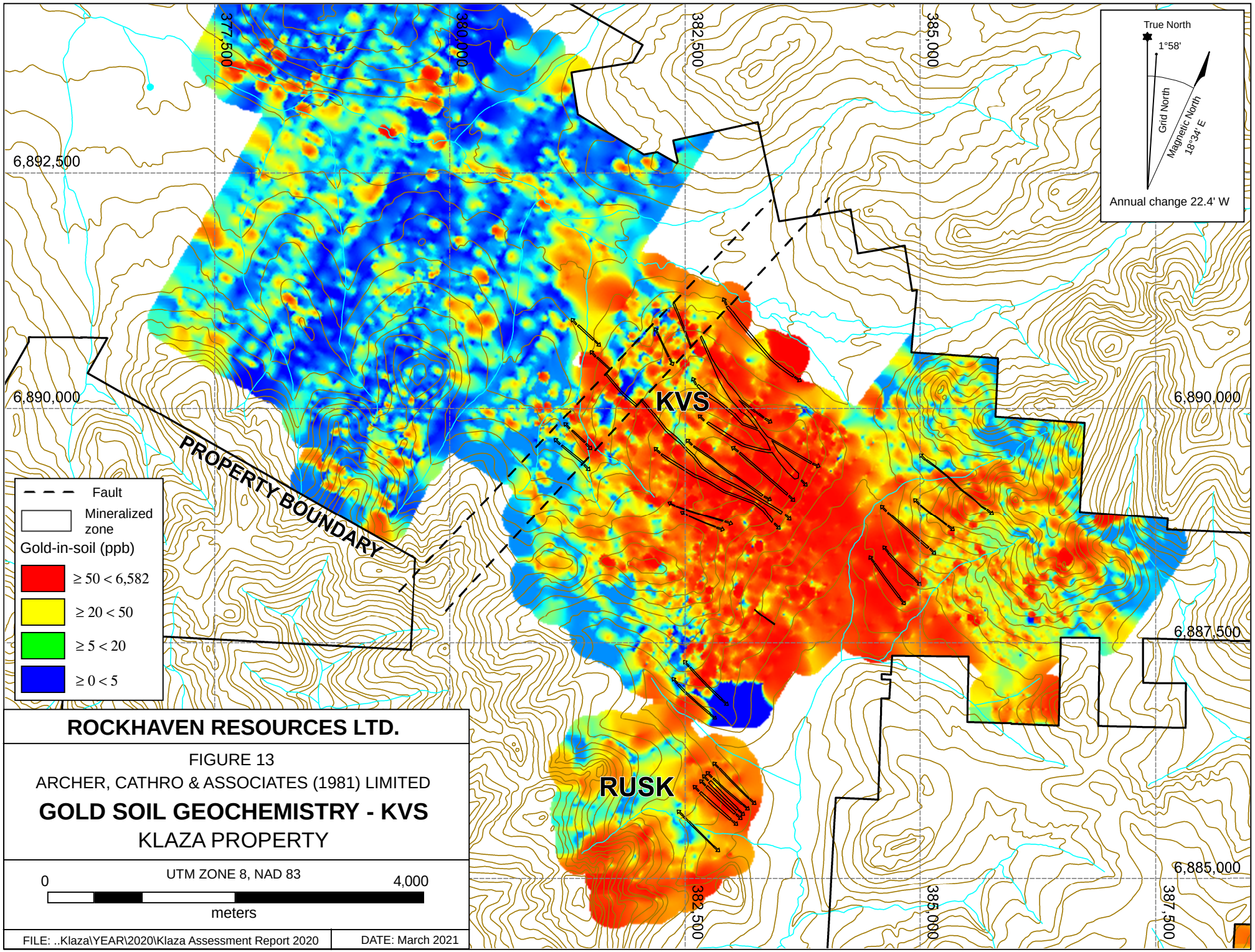
DATE: March 2021

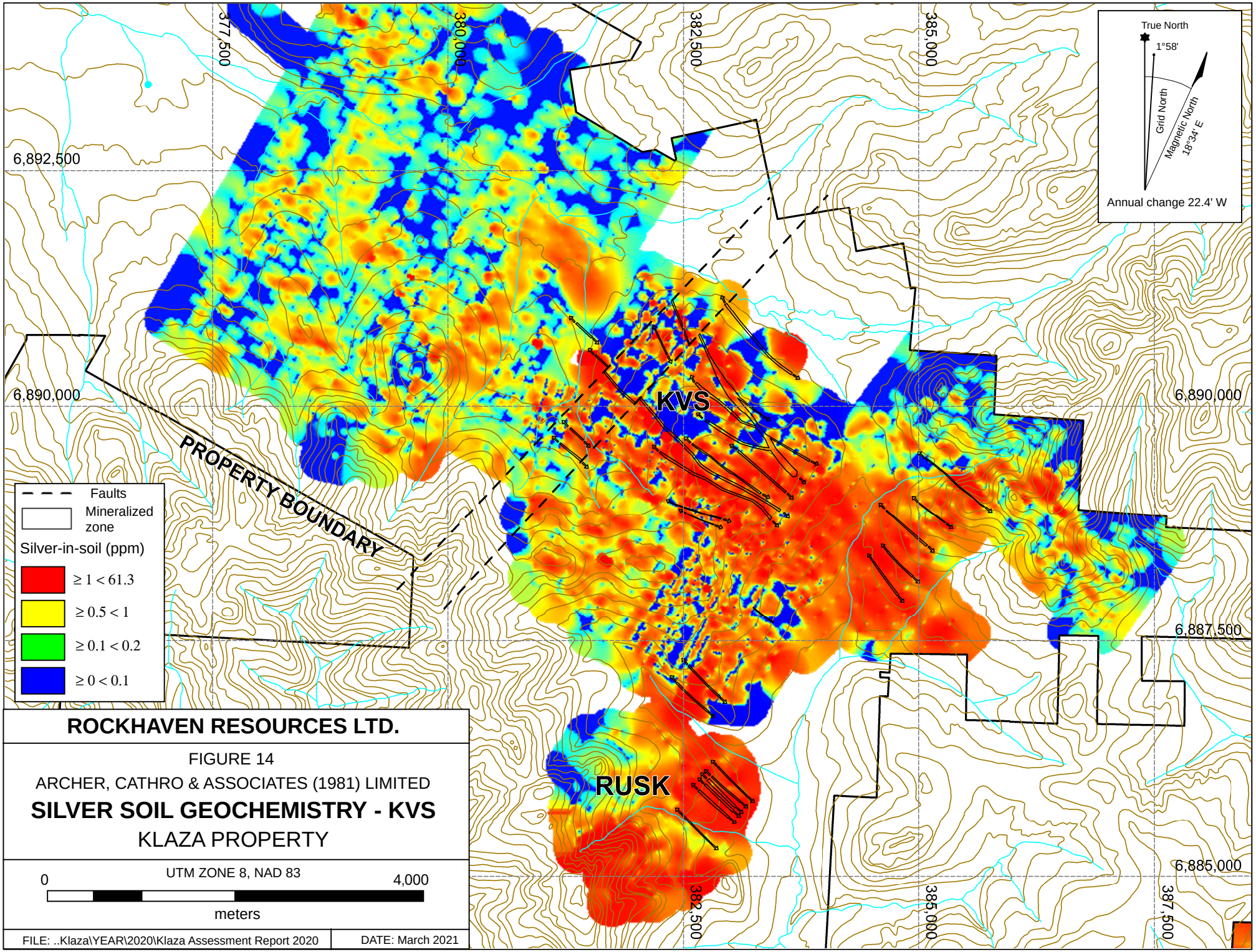

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
393,000
6,887,500
6,887,000
6,886,500
392,500
393,000
393,500
394,000
ZZ112847
ZZ112848
ZZ112849
ZZ112845
ZZ112846
ZZ112852
ZZ112850
ZZ112853
ZZ112851
ZZ112854
ZZ112855
ZZ112856
ZZ112857
ZZ112858
ZZ112859
ZZ112860
ZZ112861
ZZ112910
ZZ112911
ZZ112912
ZZ112913
ZZ112914
ZZ112915
ZZ112916
ZZ112917
ZZ112918
ZZ112919
ZZ112920
ZZ112921
ZZ112922
ZZ112923
ZZ112924
ZZ112925
ZZ112926
ZZ112927
ZZ112928
ZZ112929
ZZ112930
ZZ112931
ZZ112932
ZZ112933
ZZ112934
ZZ112935
ZZ112936
ZZ112937
ZZ112938
ZZ112939
ZZ112940
ZZ112903
ZZ112901
ZZ112905
ZZ112902
ZZ113642
ZZ112904
ZZ113643
ZZ112906
ZZ112907
ZZ112908
ZZ112909
ZZ113644
ZZ113645
ZZ113646
ZZ113647
ZZ113648
ZZ113649
ZZ113650
ZZ113761
ZZ113762
ZZ113763
ZZ113764
ZZ113830
ZZ113831
ZZ113832
ZZ113833
ZZ113834
ZZ113835
ZZ113836
ZZ113837
ZZ113838
ZZ113839
ZZ113840
ZZ113841
ZZ113842
ZZ113843
ZZ113844
ZZ113845
ZZ113846
ZZ113847
ZZ113848
ZZ113849
ZZ113850
ZZ113898
ZZ113899
ZZ112862
ZZ112863
ZZ112864
ZZ112865
ZZ112866
ZZ112867
ZZ112868
ZZ112869
ZZ112870
ZZ112871
ZZ112872
ZZ112873
ZZ112874
ZZ112875
ZZ112876
ZZ112877
ZZ112878
ZZ112879
ZZ112880
ZZ112881
ZZ112882
ZZ112883
ZZ112884
ZZ112885
ZZ112886
ZZ112887
ZZ112888
ZZ112944
ZZ112943
ZZ112942
ZZ112941
KLAZA
DEPOSIT
0
5
kilometers
6,887,000
ROCKHAVEN RESOURCES LTD.
FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SOIL SAMPLE LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

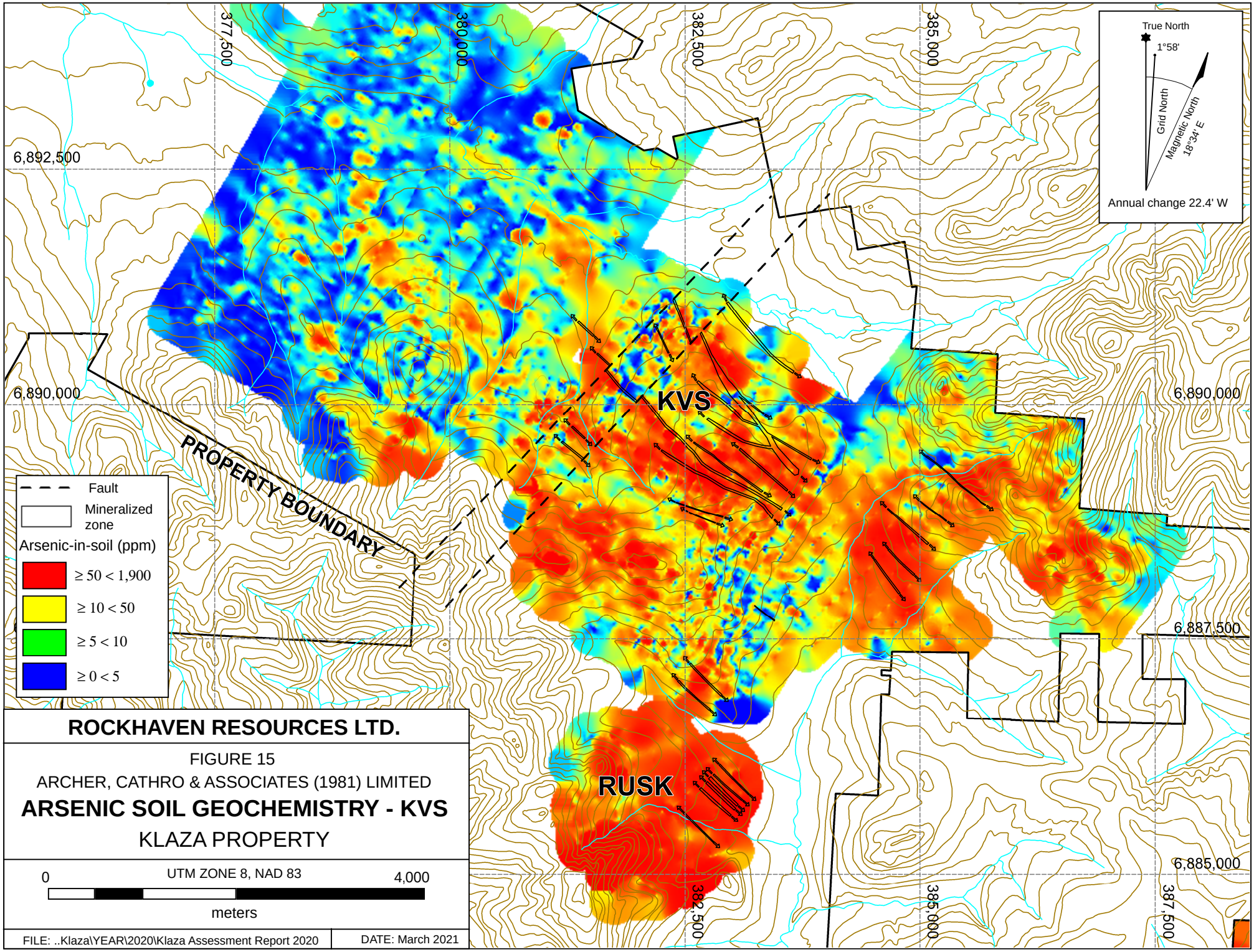

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
81
65
100
1,140
97
56
103
421
53
110
2020 gold-in-soil (ppb)
100 to 1,140
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
Pre-2020 gold-in-soil (ppb)
100 to 6,590
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
ROCKHAVEN RESOURCES LTD.
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 GOLD SOIL GEOCHEMISTRY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

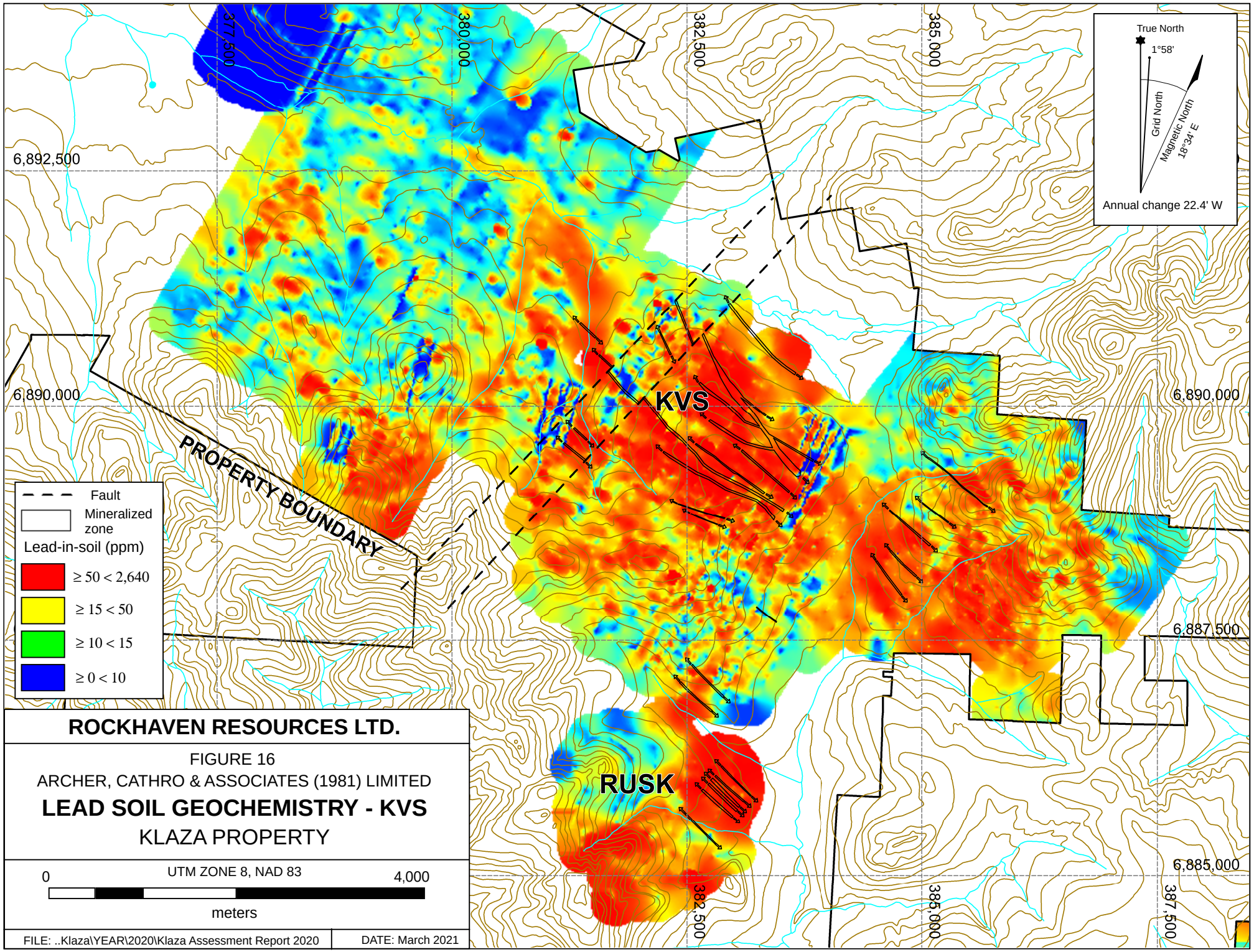

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
115
134
90
820
140
92
73
2020 arsenic-in-soil (ppm)
100 to 6,590
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
Pre-2020 arsenic-in-soil (ppm)
100 to 3,980
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
ROCKHAVEN RESOURCES LTD.
FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 ARSENIC SOIL GEOCHEMISTRY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

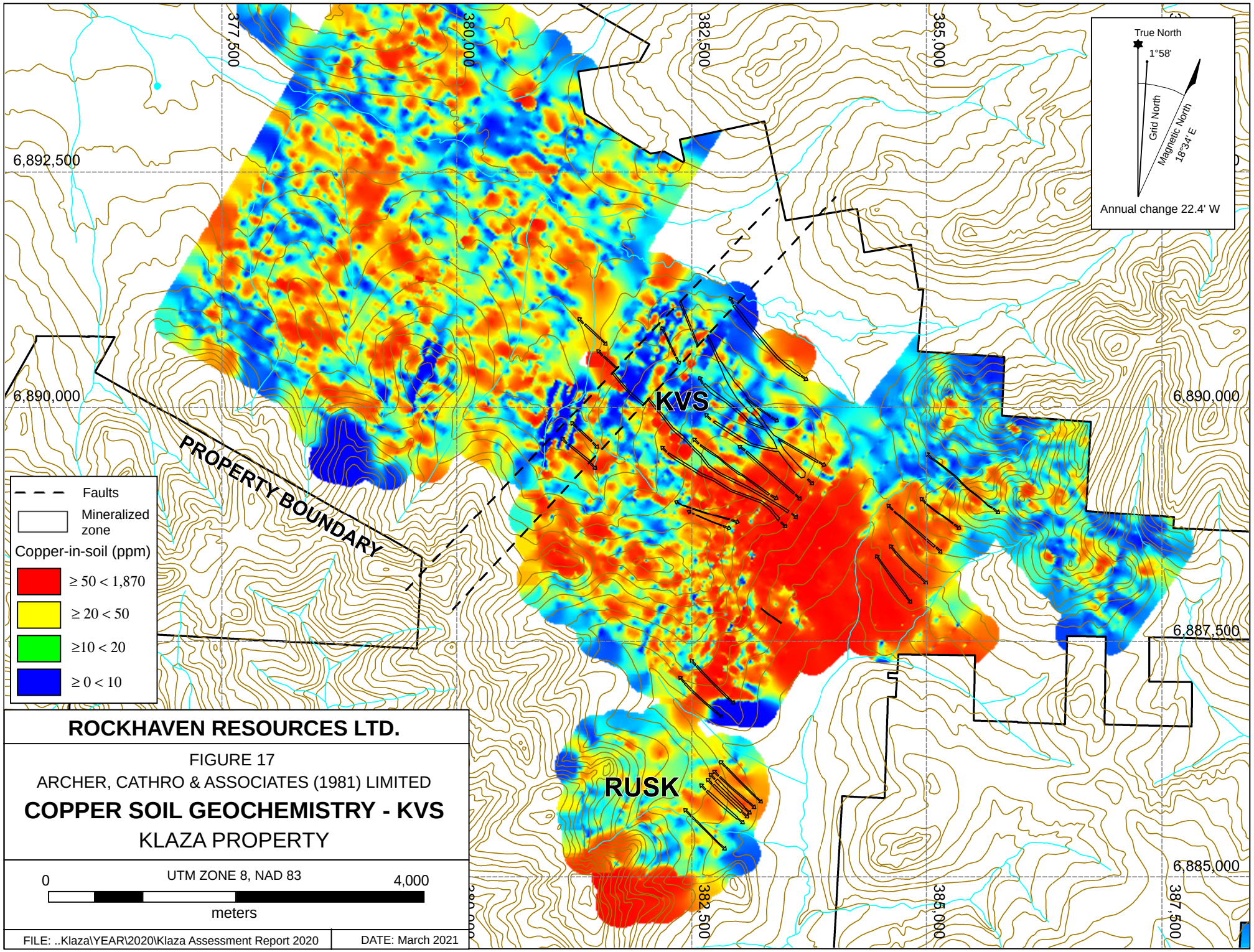

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
2020 silver-in-soil (ppm)
4 to 112
2 to 4
1 to 2
0.5 to 1
0.2 to 0.5
0 to 0.2
Pre-2020 silver-in-soil (ppm)
4 to 112
2 to 4
1 to 2
0.5 to 1
0.2 to 0.5
0 to 0.2
ROCKHAVEN RESOURCES LTD.
FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 SILVER SOIL GEOCHEMISTRY
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

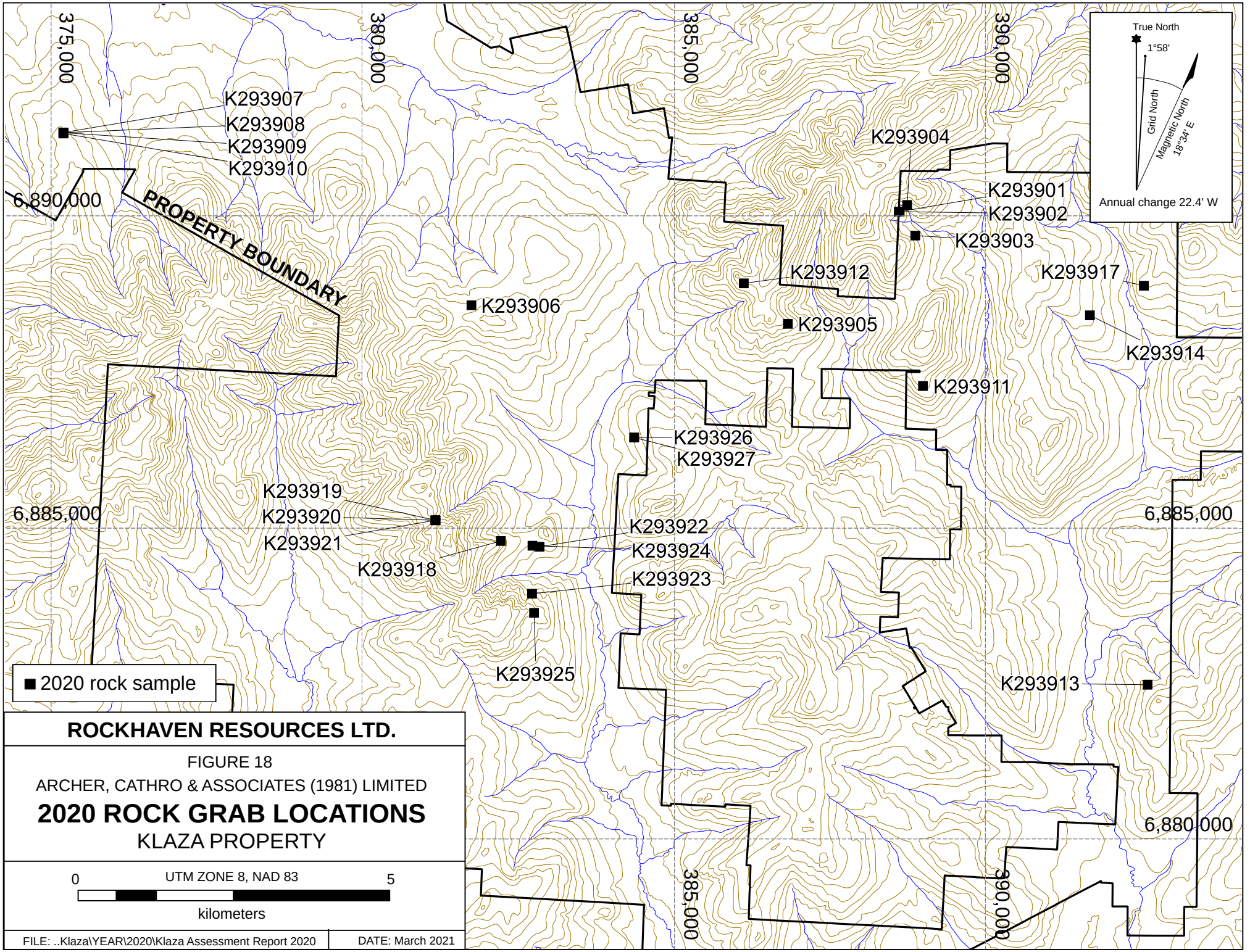

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Gold-in-soil (ppb)
≥ 50 < 6,582
≥ 20 < 50
≥ 5 < 20
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

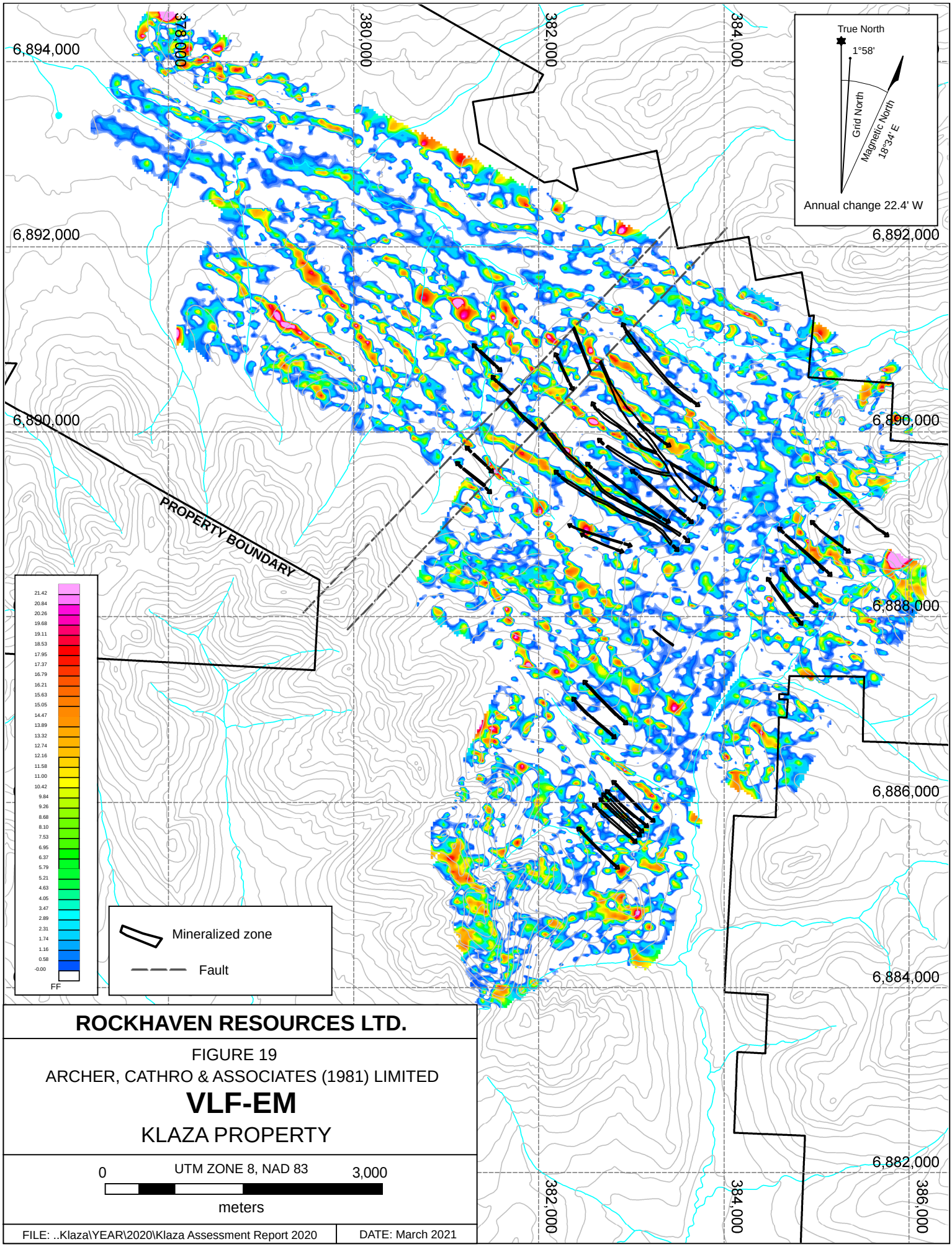

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
KVS
RUSK
PROPERTY BOUNDARY
Faults
Mineralized zone
Silver-in-soil (ppm)
≥ 1 < 61.3
≥ 0.5 < 1
≥ 0.1 < 0.2
≥ 0 < 0.1
ROCKHAVEN RESOURCES LTD.
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Arsenic-in-soil (ppm)
≥ 50 < 1,900
≥ 10 < 50
≥ 5 < 10
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Lead-in-soil (ppm)
≥ 50 < 2,640
≥ 15 < 50
≥ 10 < 15
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Faults
Mineralized zone
Copper-in-soil (ppm)
≥ 50 < 1,870
≥ 20 < 50
≥10 < 20
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


375,000
380,000
385,000
390,000
6,890,000
6,885,000
6,880,000
PROPERTY BOUNDARY
K293907
K293908
K293909
K293910
K293904
K293901
K293902
K293903
K293912
K293917
K293906
K293905
K293914
K293911
K293926
K293927
K293919
K293920
K293921
K293918
K293922
K293924
K293923
K293925
K293913
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
■ 2020 rock sample
ROCKHAVEN RESOURCES LTD.
FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 ROCK GRAB LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
5
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

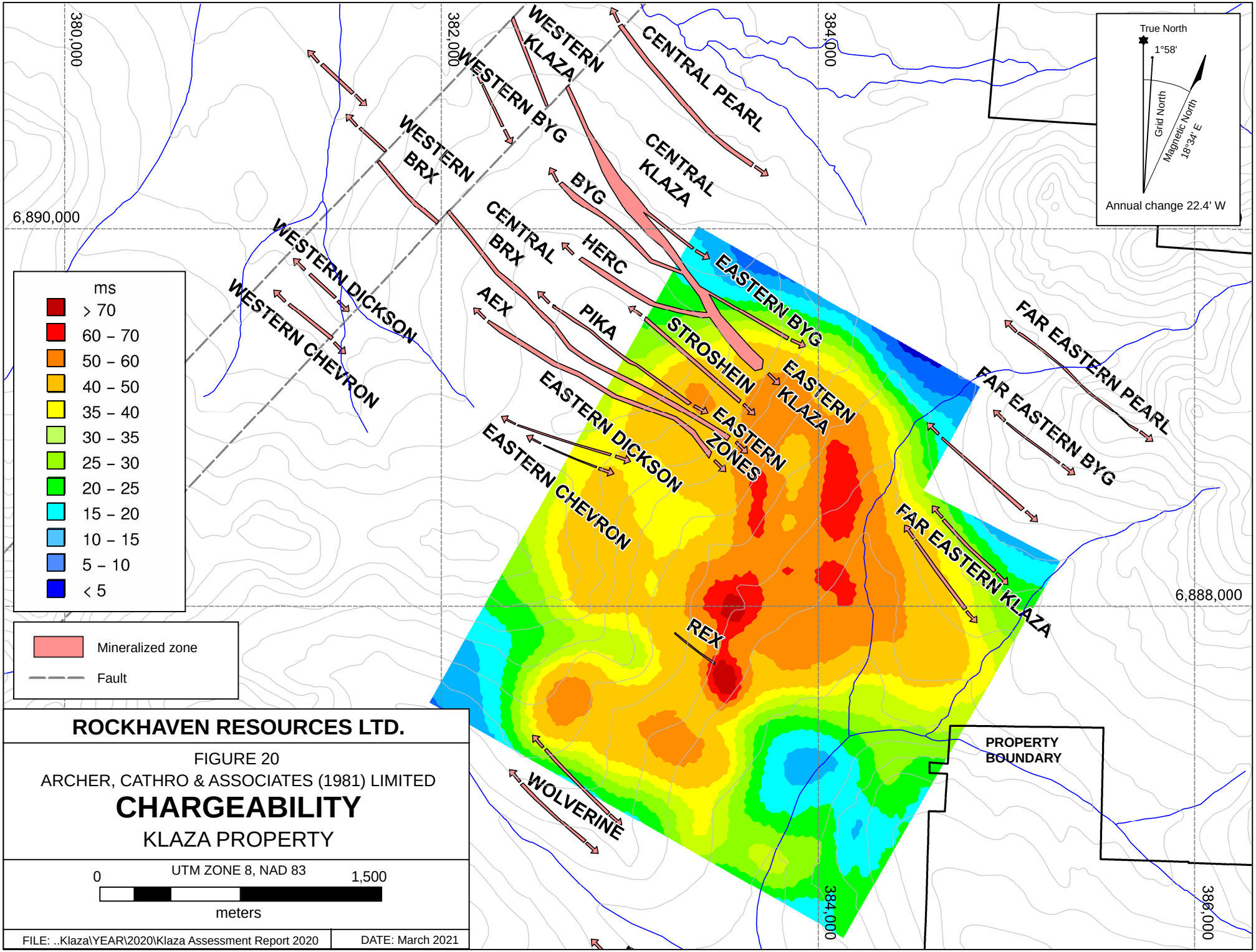
VLF-EM

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 3,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020 | DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CHARGEABILITY

KLAZA PROPERTY

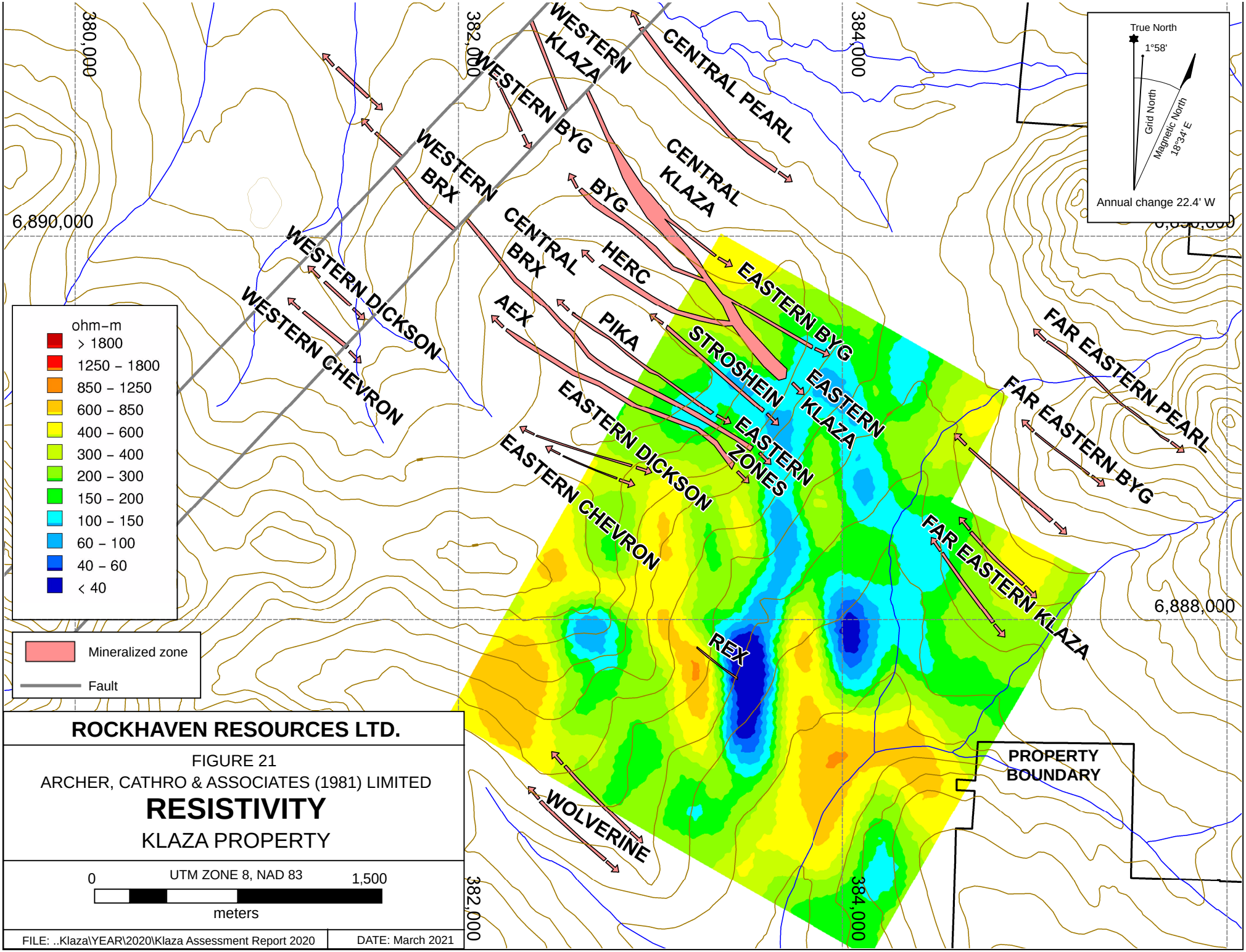
UTM ZONE 8, NAD 83

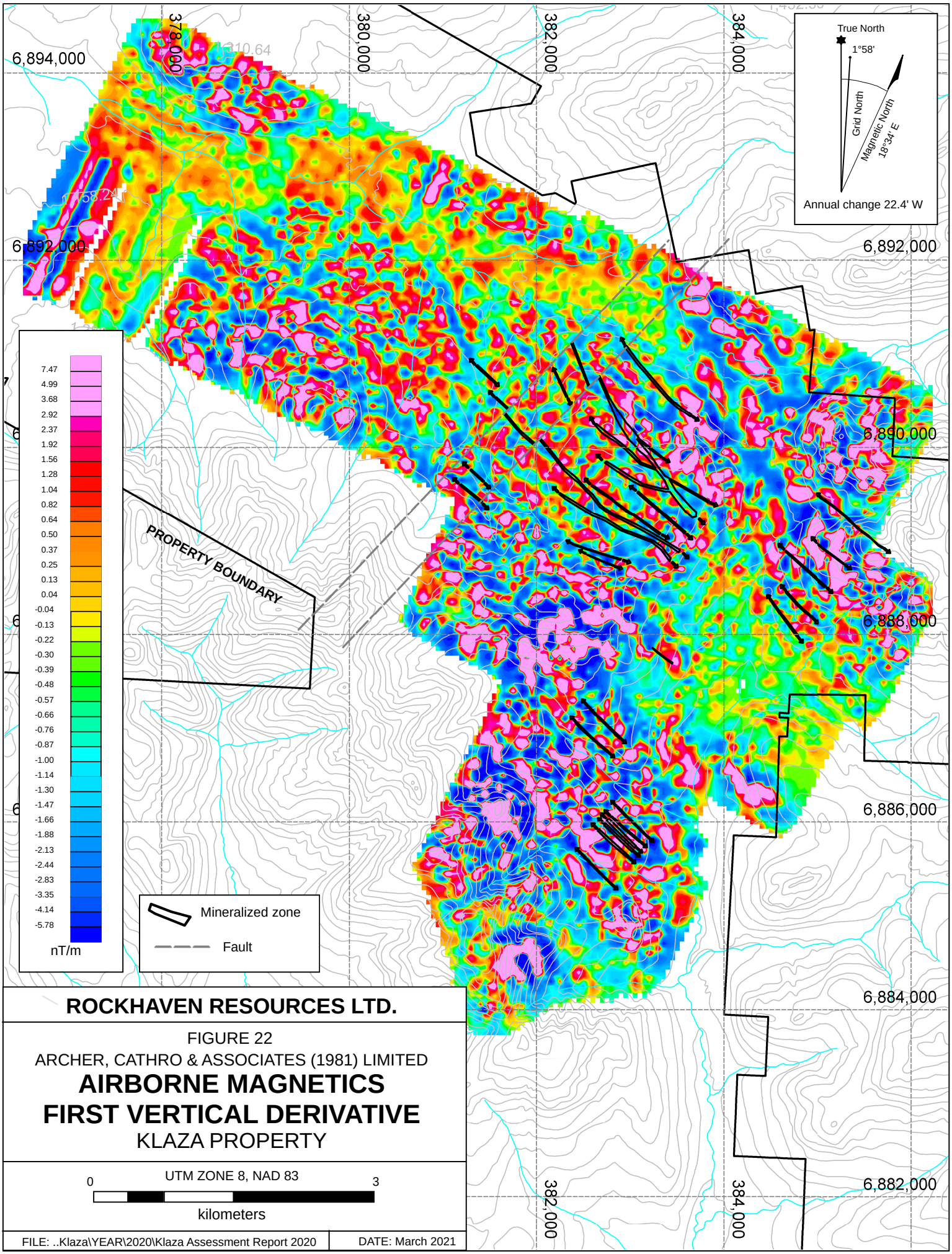
0 1,500

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021


380,000
382,000
384,000
6,890,000
6,888,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
ohm-m
> 1800
1250 – 1800
850 – 1250
600 – 850
400 – 600
300 – 400
200 – 300
150 – 200
100 – 150
60 – 100
40 – 60
< 40
Mineralized zone
Fault
WESTERN KLAZA
CENTRAL PEARL
WESTERN BYG
WESTERN BRX
CENTRAL KLAZA
BYG
CENTRAL BRX
HERC
WESTERN DICKSON
WESTERN CHEVRON
AEX
PIKA
STROSHEIN
EASTERN BYG
EASTERN KLAZA
EASTERN ZONES
EASTERN DICKSON
EASTERN CHEVRON
FAR EASTERN PEARL
FAR EASTERN BYG
FAR EASTERN KLAZA
REX
WOLVERINE
PROPERTY BOUNDARY
ROCKHAVEN RESOURCES LTD.
FIGURE 21
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
RESISTIVITY
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

AIRBORNE MAGNETICS
FIRST VERTICAL DERIVATIVE

KLAZA PROPERTY

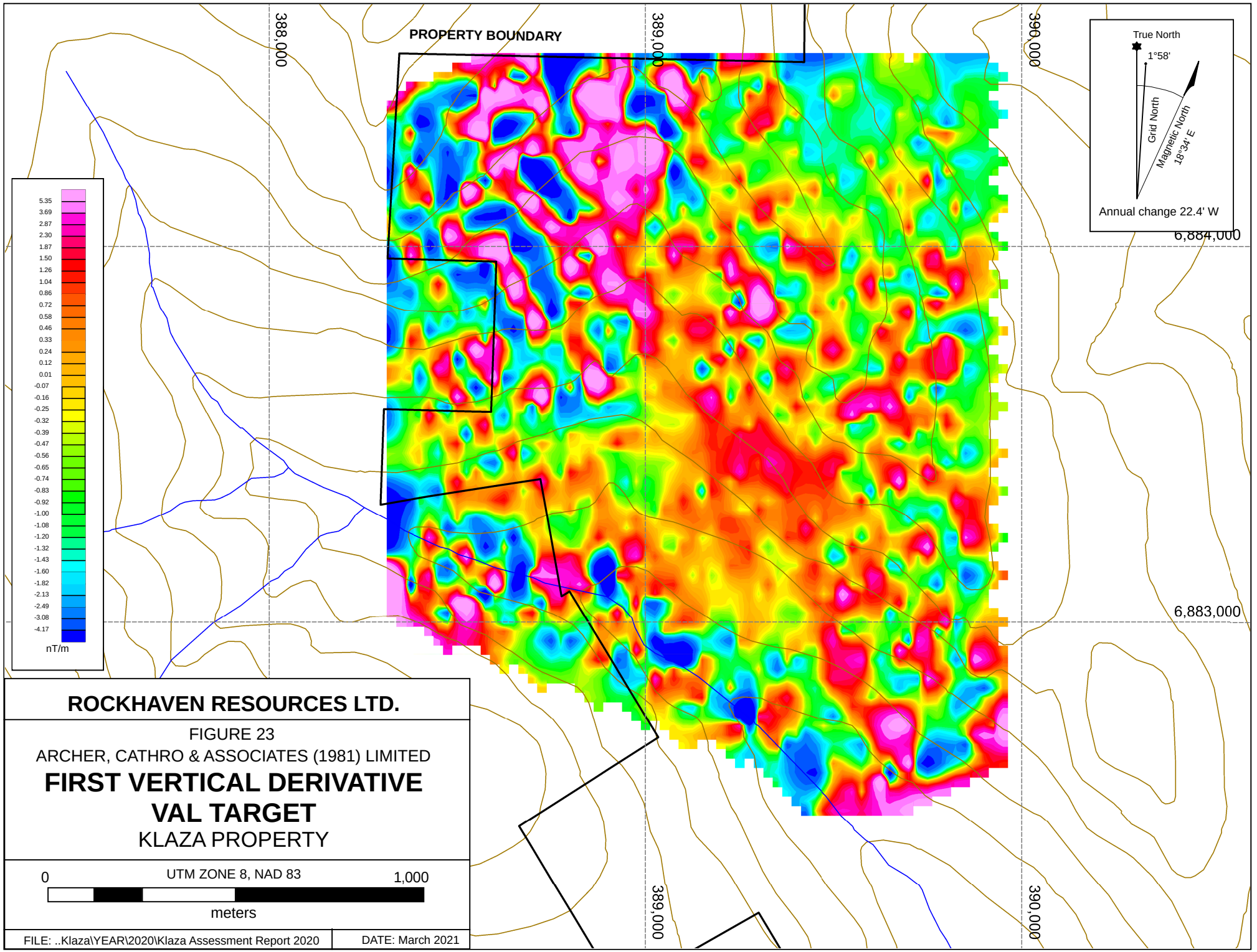
UTM ZONE 8, NAD 83

0 3

kilometers

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIRST VERTICAL DERIVATIVE
VAL TARGET

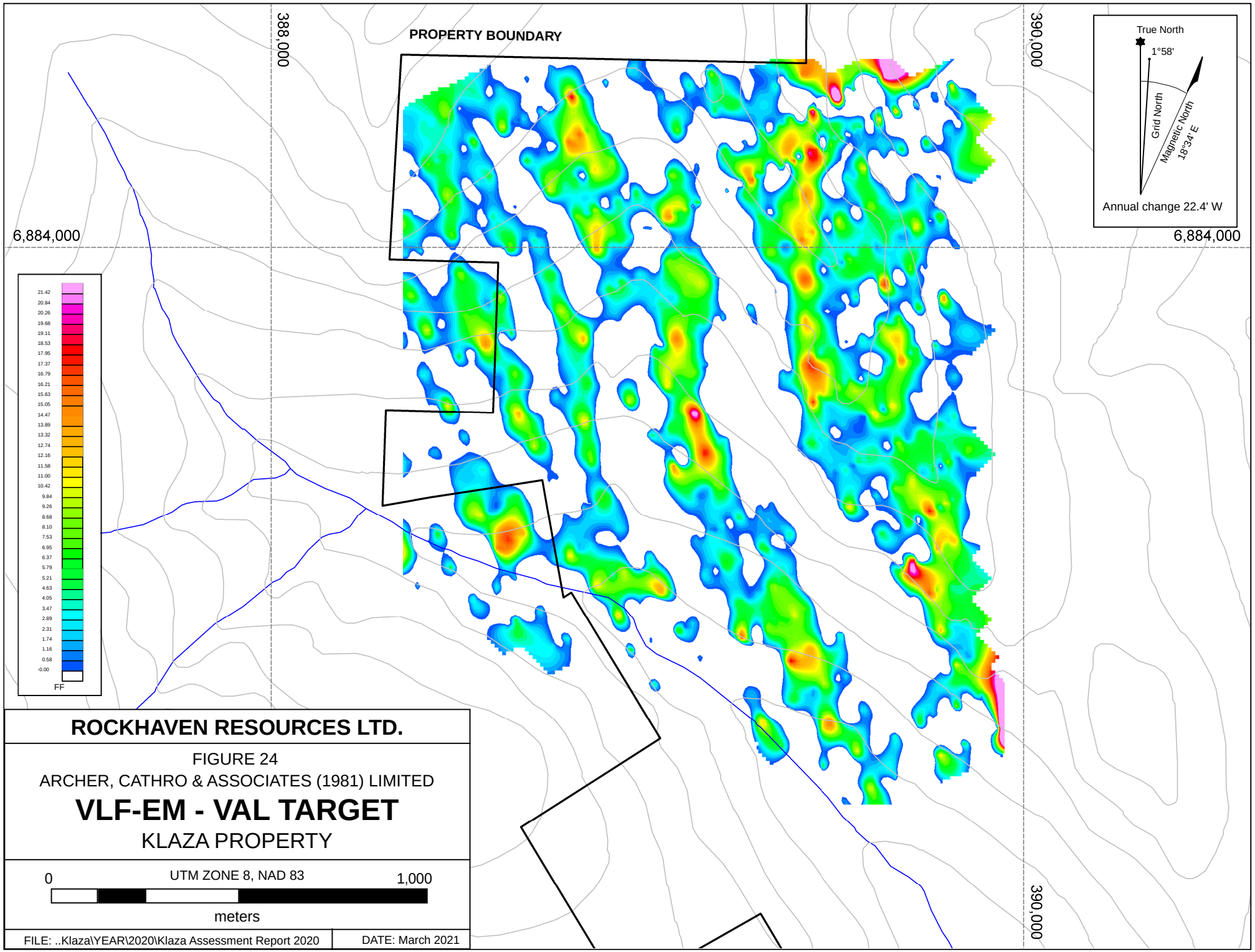
KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

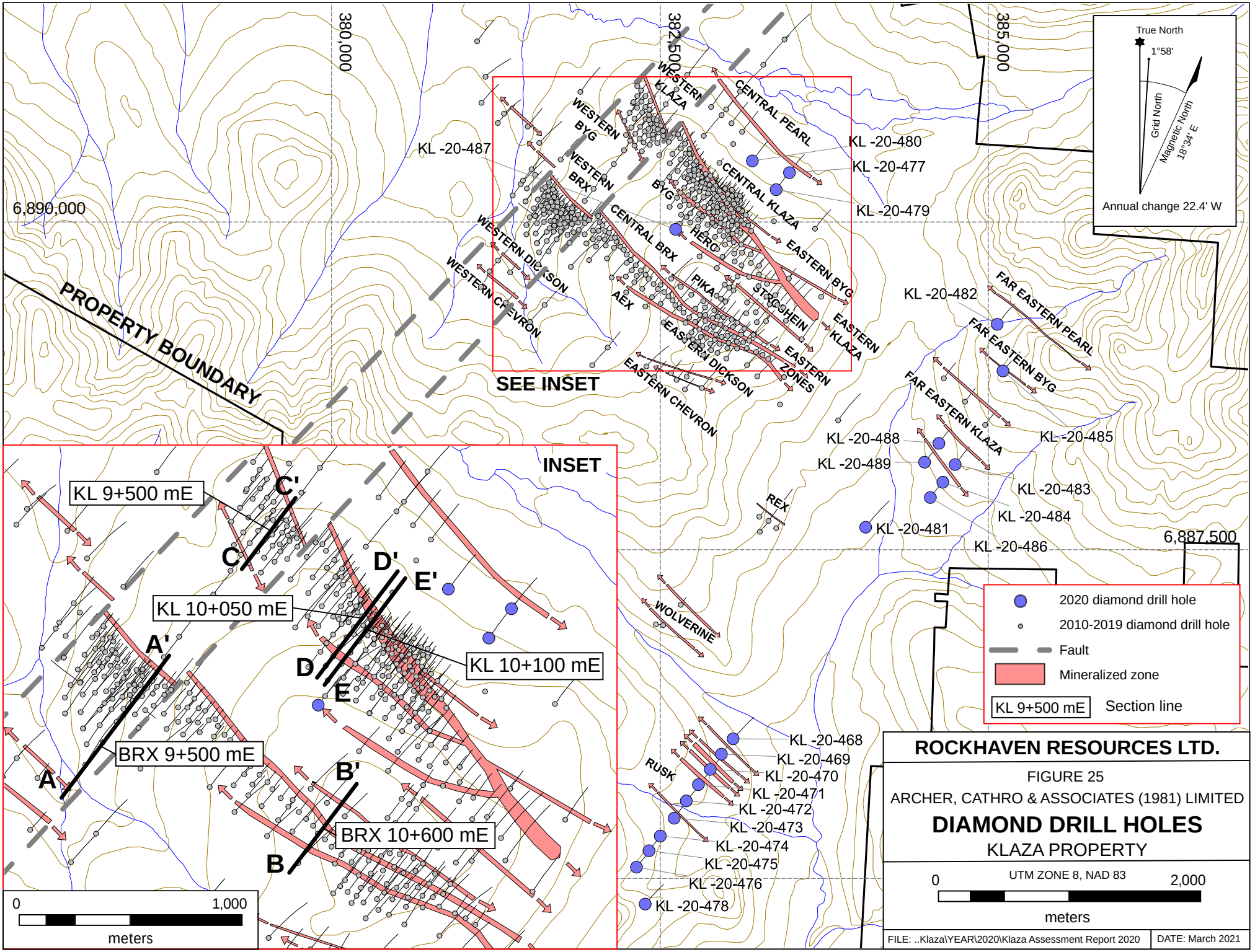
VLF-EM - VAL TARGET

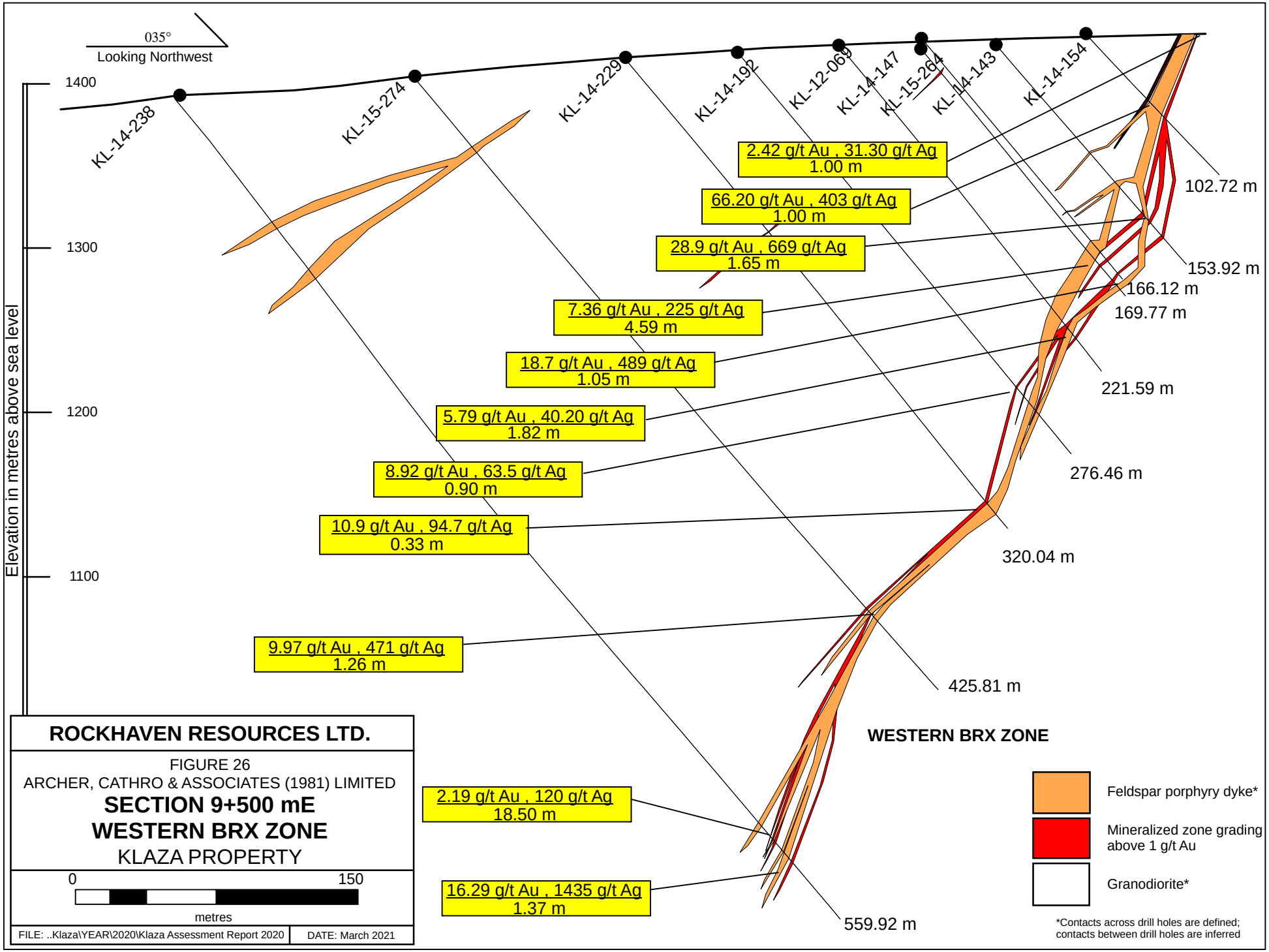
KLAZA PROPERTY

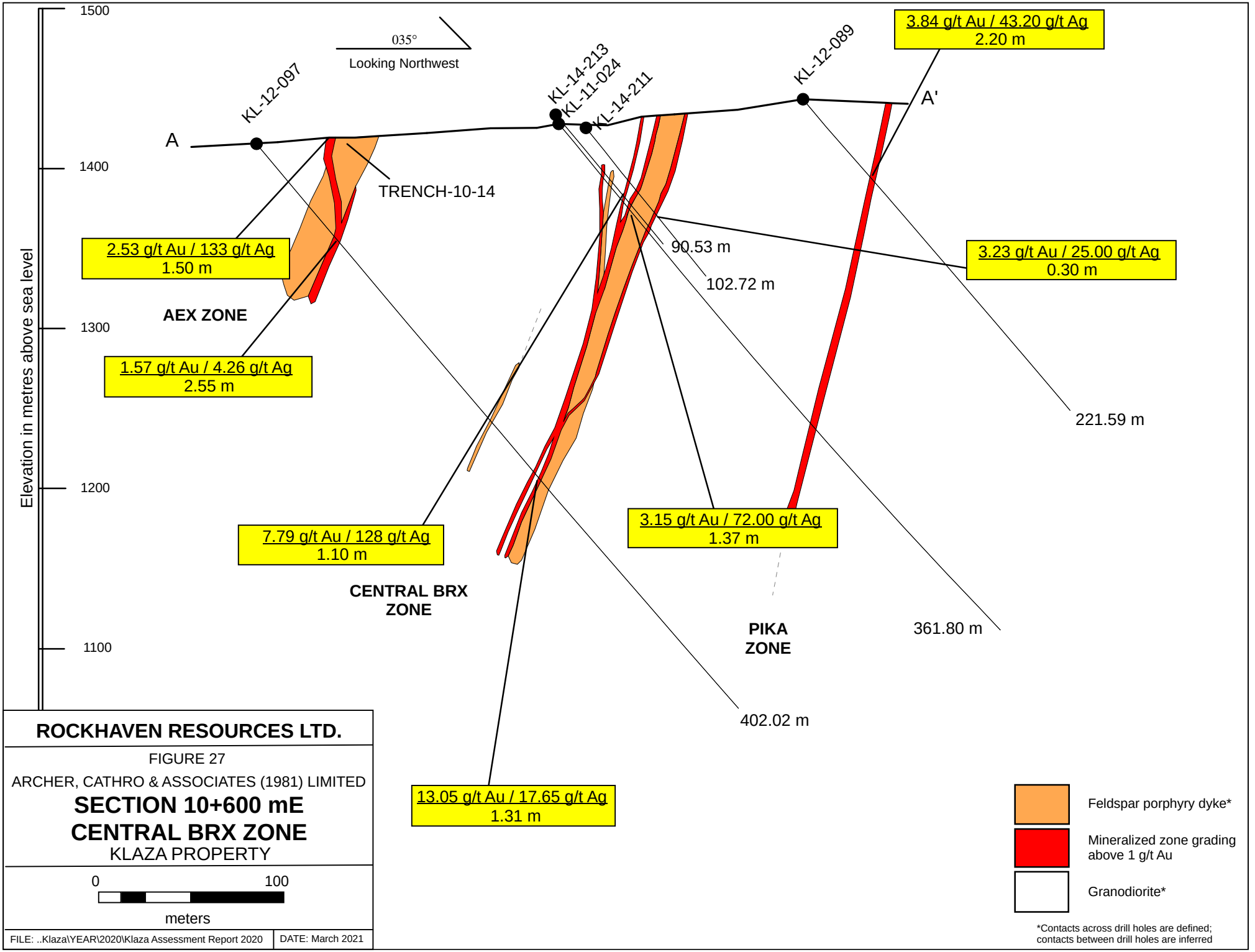
0 UTM ZONE 8, NAD 83 1,000

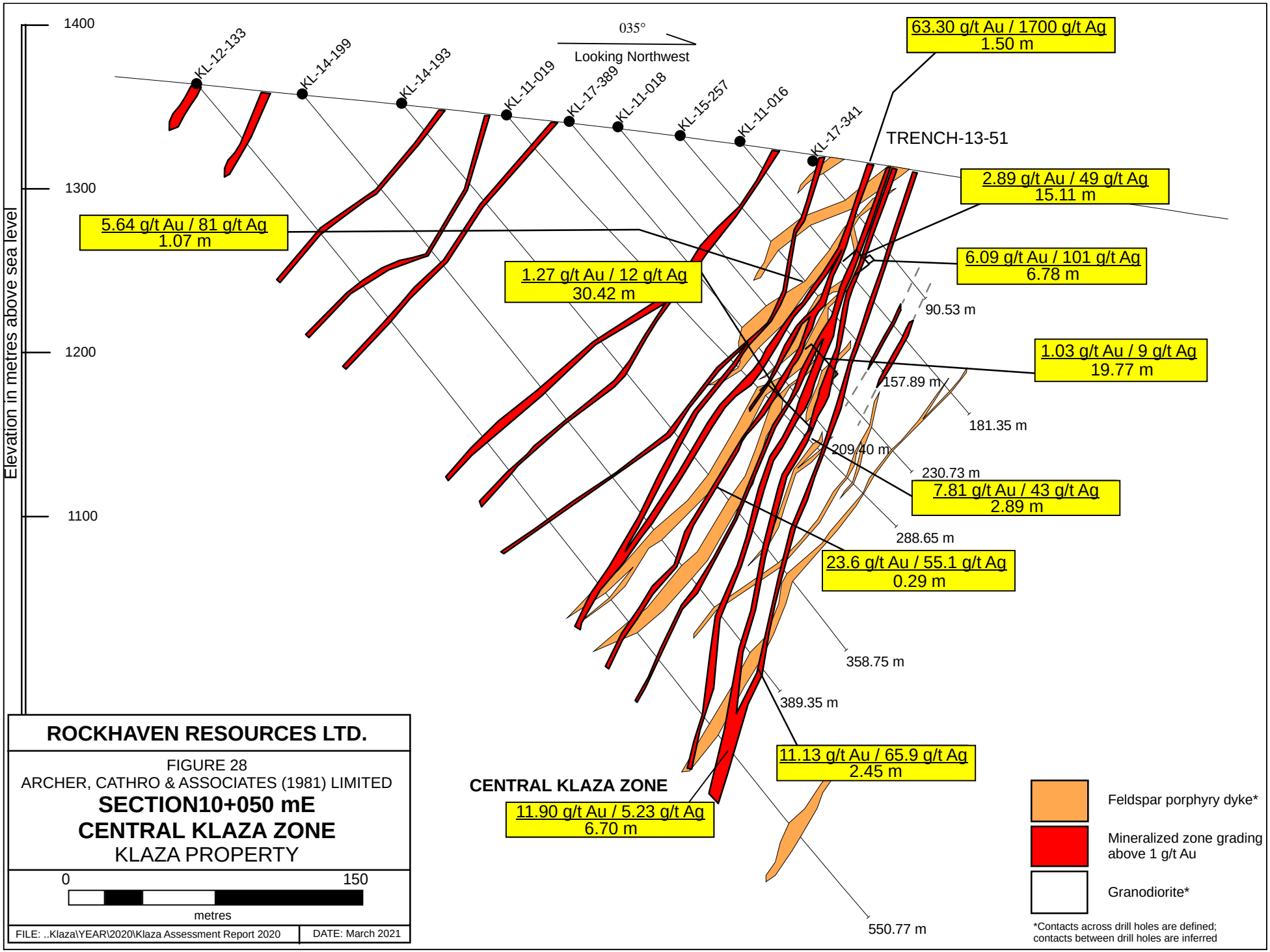
meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020 | DATE: March 2021


380,000
382,500
385,000
6,890,000
6,887,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
SEE INSET
INSET
WESTERN KLAZA
CENTRAL PEARL
WESTERN BYG
WESTERN BRX
CENTRAL KLAZA
CENTRAL BRX
EASTERN BYG
WESTERN DICKSON
WESTERN CHEVRON
HERC
PIKA
STACCHEIN
AEX
EASTERN KLAZA
EASTERN DICKSON
EASTERN ZONES
EASTERN CHEVRON
FAR EASTERN PEARL
FAR EASTERN BYG
FAR EASTERN KLAZA
REX
WOLVERINE
RUSK
KL -20-487
KL -20-480
KL -20-477
KL -20-479
KL -20-482
KL -20-488
KL -20-489
KL -20-485
KL -20-483
KL -20-484
KL -20-481
KL -20-486
KL -20-468
KL -20-469
KL -20-470
KL -20-471
KL -20-472
KL -20-473
KL -20-474
KL -20-475
KL -20-476
KL -20-478
KL 9+500 mE
KL 10+050 mE
KL 10+100 mE
BRX 9+500 mE
BRX 10+600 mE
A
A'
B
B'
C
C'
D
D'
E
E'
0
1,000
meters
2020 diamond drill hole
2010-2019 diamond drill hole
Fault
Mineralized zone
KL 9+500 mE
Section line
ROCKHAVEN RESOURCES LTD.
FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL HOLES
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
2,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


035°
Looking Northwest
1400
1300
1200
1100
Elevation in metres above sea level
KL-14-238
KL-15-274
KL-14-229
KL-14-192
KL-12-069
KL-14-147
KL-15-264
KL-14-143
KL-14-154
2.42 g/t Au , 31.30 g/t Ag
1.00 m
66.20 g/t Au , 403 g/t Ag
1.00 m
28.9 g/t Au , 669 g/t Ag
1.65 m
7.36 g/t Au , 225 g/t Ag
4.59 m
18.7 g/t Au , 489 g/t Ag
1.05 m
5.79 g/t Au , 40.20 g/t Ag
1.82 m
8.92 g/t Au , 63.5 g/t Ag
0.90 m
10.9 g/t Au , 94.7 g/t Ag
0.33 m
9.97 g/t Au , 471 g/t Ag
1.26 m
2.19 g/t Au , 120 g/t Ag
18.50 m
16.29 g/t Au , 1435 g/t Ag
1.37 m
102.72 m
153.92 m
166.12 m
169.77 m
221.59 m
276.46 m
320.04 m
425.81 m
559.92 m
WESTERN BRX ZONE
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 26
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 9+500 mE
WESTERN BRX ZONE
KLAZA PROPERTY
0
150
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


1500
1400
1300
1200
1100
Elevation in metres above sea level
035°
Looking Northwest
KL-12-097
KL-14-213
KL-11-024
KL-14-211
KL-12-089
A
A'
TRENCH-10-14
3.84 g/t Au / 43.20 g/t Ag
2.20 m
2.53 g/t Au / 133 g/t Ag
1.50 m
AEX ZONE
90.53 m
102.72 m
3.23 g/t Au / 25.00 g/t Ag
0.30 m
1.57 g/t Au / 4.26 g/t Ag
2.55 m
221.59 m
7.79 g/t Au / 128 g/t Ag
1.10 m
3.15 g/t Au / 72.00 g/t Ag
1.37 m
CENTRAL BRX
ZONE
PIKA
ZONE
361.80 m
402.02 m
13.05 g/t Au / 17.65 g/t Ag
1.31 m
ROCKHAVEN RESOURCES LTD.
FIGURE 27
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 10+600 mE
CENTRAL BRX ZONE
KLAZA PROPERTY
0
100
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred


Elevation in metres above sea level
1400
1300
1200
1100
035°
Looking Northwest
KL-12-133
KL-14-199
KL-14-193
KL-11-019
KL-17-389
KL-11-018
KL-15-257
KL-11-016
KL-17-341
TRENCH-13-51
63.30 g/t Au / 1700 g/t Ag
1.50 m
2.89 g/t Au / 49 g/t Ag
15.11 m
5.64 g/t Au / 81 g/t Ag
1.07 m
6.09 g/t Au / 101 g/t Ag
6.78 m
1.27 g/t Au / 12 g/t Ag
30.42 m
90.53 m
1.03 g/t Au / 9 g/t Ag
19.77 m
157.89 m
181.35 m
209.40 m
230.73 m
7.81 g/t Au / 43 g/t Ag
2.89 m
288.65 m
23.6 g/t Au / 55.1 g/t Ag
0.29 m
358.75 m
389.35 m
11.13 g/t Au / 65.9 g/t Ag
2.45 m
CENTRAL KLAZA ZONE
11.90 g/t Au / 5.23 g/t Ag
6.70 m
550.77 m
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 28
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION10+050 mE
CENTRAL KLAZA ZONE
KLAZA PROPERTY
0
150
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

KL-20-487
KL-15-285
KL-16-308
KL-15-265
KL-11-031
KL-11-027
KL-17-387
KL-11-025
KL-16-338
KL-16-318

8.56 g/t Au / 77.0 g/t Ag
1.94 m

4.22 g/t Au / 75.0 g/t Ag
6.27 m

33.20 g/t Au / 957 g/t Ag
0.56 m

7.48 g/t Au / 445 g/t Ag
1.01 m

5.51g/t Au / 141 g/t Ag
2.95 m

116.00 m

113.00 m

181.97 m

199.94 m

260.91 m

27.4 g/t Au / 549 g/t Ag
0.79 m

5.07 g/t Au / 98.0 g/t Ag
1.01 m

4.68g/t Au / 303 g/t Ag
0.55 m

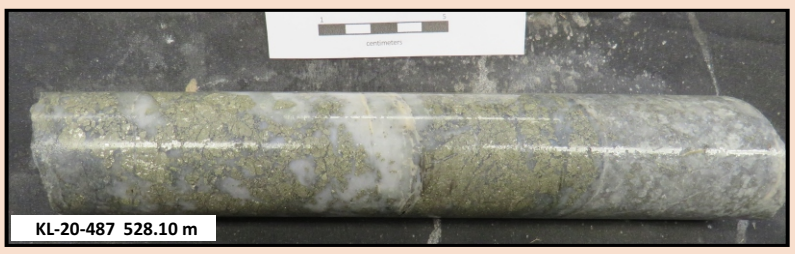
6.71g/t Au / 0.54 g/t Ag
2.44 m

Klaza Zone Vein Corridor

410.20 m

494.69 m

6.71g/t Au / 0.54 g/t Ag
2.44 m



3.18g/t Au / 43.52 g/t Ag
2.00 m

2.13 g/t Au / 382 g/t Ag
0.40 m

1.55 g/t Au / 182 g/t Ag
1.00 m



Au (g/t)		Ag (g/t)	
≥ 10	≤ 33.2	≥ 500	≤ 957
≥ 5.0	≤ 10.0	≥ 200	≤ 500
≥ 3.0	≤ 5.0	≥ 100	≤ 200
≥ 2.0	≤ 3.0	≥ 50	≤ 100
≥ 1.0	≤ 2.0	≥ 20	≤ 50
≥ 0.5	≤ 1.0	≥ 0	≤ 20
≥ 0	≤ 0.5		

Drill Collar
Surface
Gold
Silver
Drill Trace

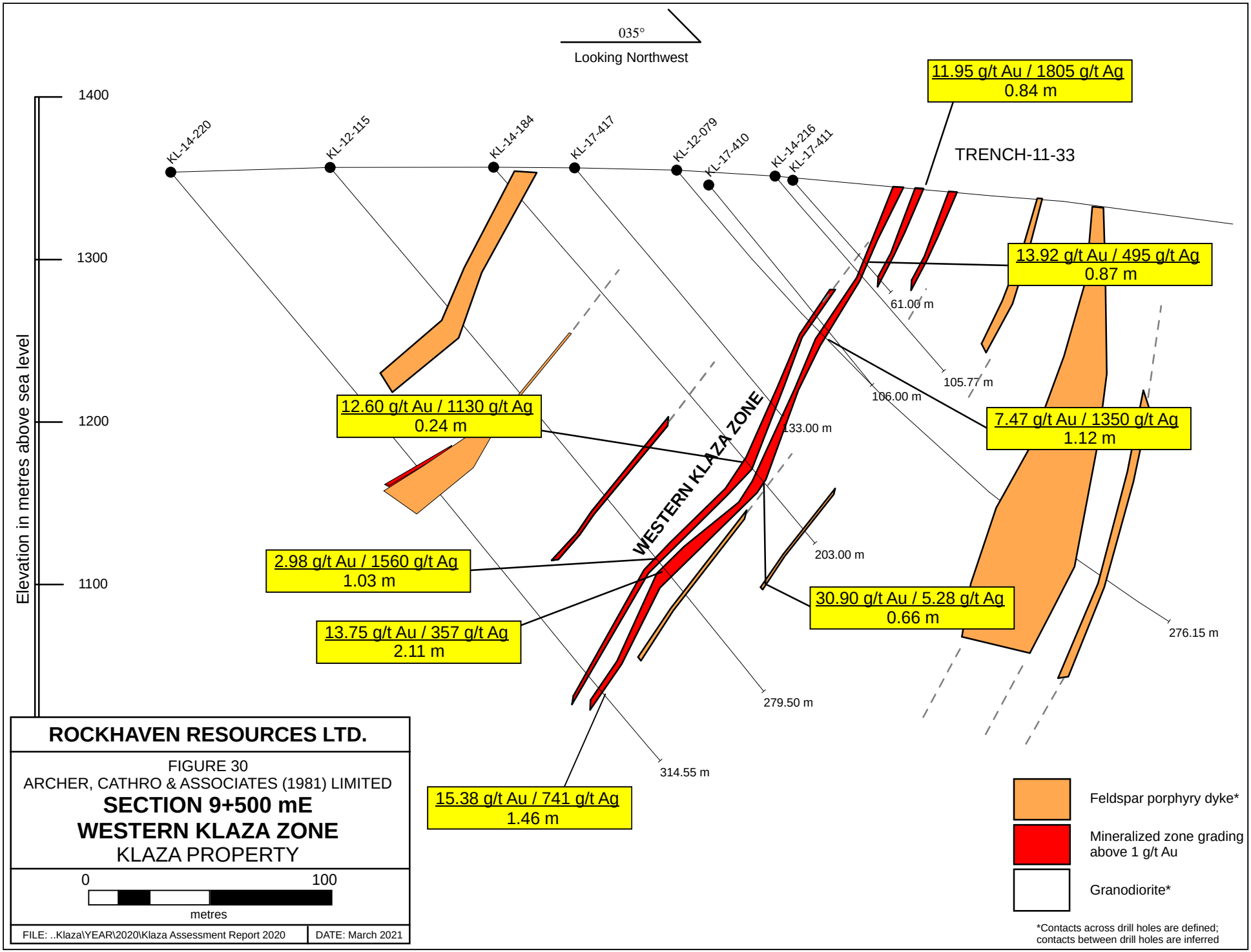
857.69 m

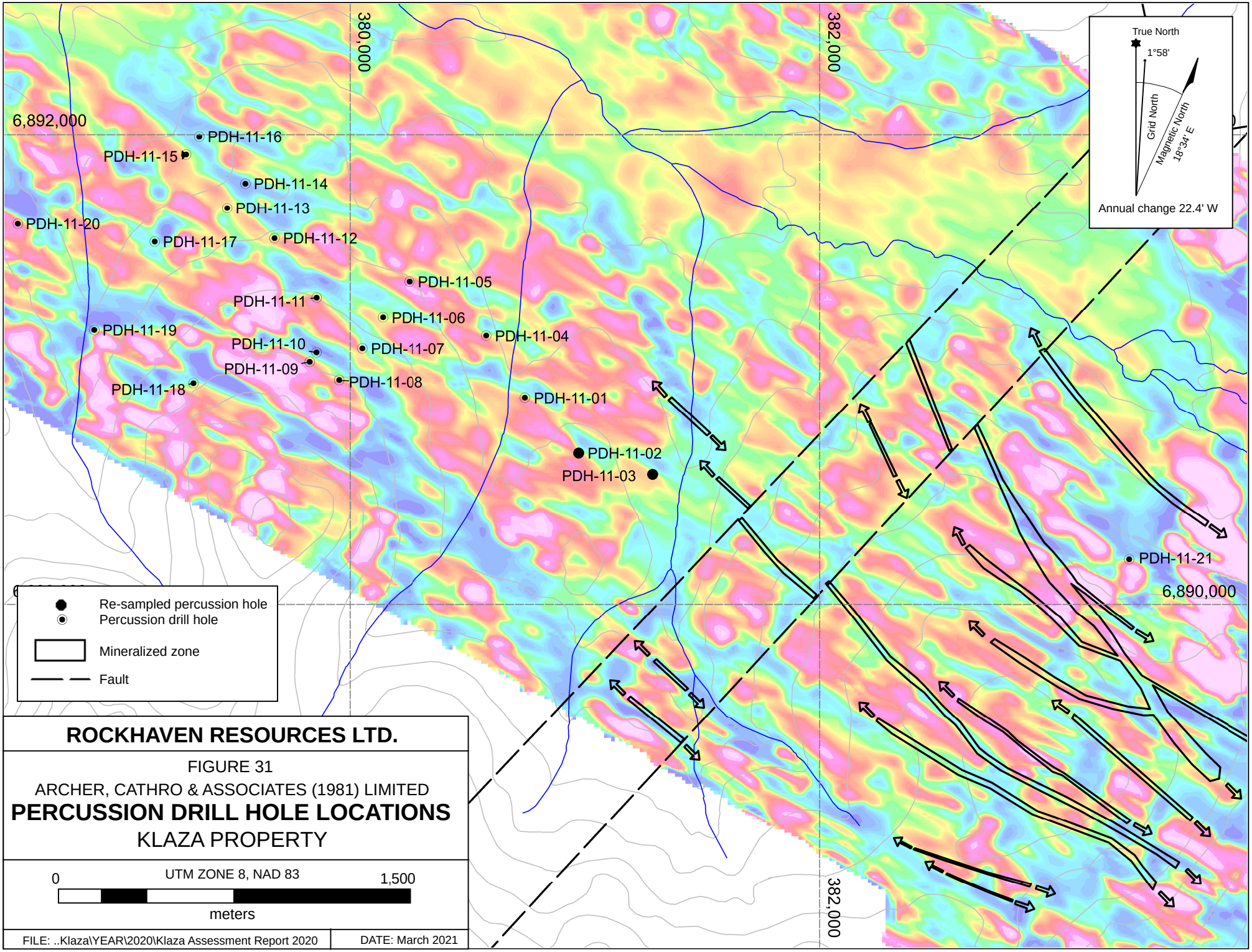
Figure 29
Section 10+150 m E - Central Klaza Zone

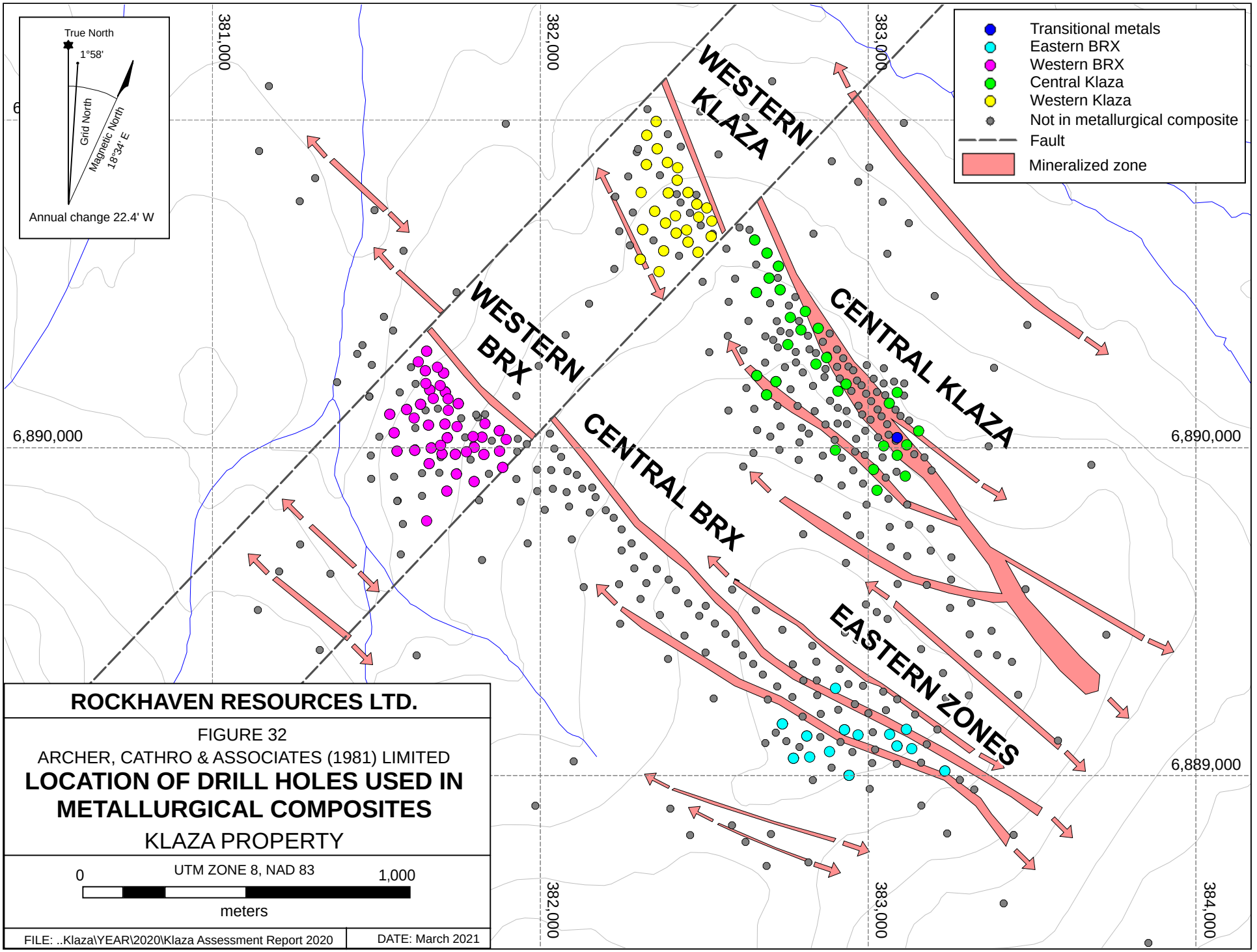
035°

100 m

Rockhaven
RESOURCES LTD.


035°
Looking Northwest
Elevation in metres above sea level
1400
1300
1200
1100
KL-14-220
KL-12-115
KL-14-184
KL-17-417
KL-12-079
KL-17-410
KL-14-216
KL-17-411
TRENCH-11-33
11.95 g/t Au / 1805 g/t Ag
0.84 m
13.92 g/t Au / 495 g/t Ag
0.87 m
61.00 m
105.77 m
106.00 m
12.60 g/t Au / 1130 g/t Ag
0.24 m
7.47 g/t Au / 1350 g/t Ag
1.12 m
133.00 m
WESTERN KLAZA ZONE
2.98 g/t Au / 1560 g/t Ag
1.03 m
203.00 m
30.90 g/t Au / 5.28 g/t Ag
0.66 m
13.75 g/t Au / 357 g/t Ag
2.11 m
276.15 m
279.50 m
314.55 m
15.38 g/t Au / 741 g/t Ag
1.46 m
ROCKHAVEN RESOURCES LTD.
FIGURE 30
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 9+500 mE
WESTERN KLAZA ZONE
KLAZA PROPERTY
0
100
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred


380,000
382,000
6,892,000
6,890,000
PDH-11-16
PDH-11-15
PDH-11-14
PDH-11-13
PDH-11-20
PDH-11-17
PDH-11-12
PDH-11-05
PDH-11-11
PDH-11-06
PDH-11-19
PDH-11-04
PDH-11-10
PDH-11-07
PDH-11-09
PDH-11-18
PDH-11-08
PDH-11-01
PDH-11-02
PDH-11-03
PDH-11-21
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Re-sampled percussion hole
Percussion drill hole
Mineralized zone
Fault
ROCKHAVEN RESOURCES LTD.
FIGURE 31
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PERCUSSION DRILL HOLE LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 32

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION OF DRILL HOLES USED IN METALLURGICAL COMPOSITES

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021

Rockhaven Resources

Klaza Project

August 20-24 2020
Baseline Sampling



Prepared by:

Tutchone Environmental

October 2020

Introduction

Between August 20-24 , 2020, Tutchone Environmental (Yvonne Cable, Travis Johnnie) conducted the quarterly baseline surface water and groundwater sampling at Rockhaven's Klaza Project. The Klaza Property is 100% owned by Rockhaven Resources Ltd. and covers an area of 25,000 hectares, 50 km west of Carmacks

Quarterly sampling began in 2012 and continued to 2015. Sampling resumed in 2020.

Figure 1 identifies the surface water sites associated with the baseline program. In addition to these sites, there are 5 groundwater monitoring wells, deep (d) and shallow (s). Below , in Table 1, is a list of the surface water and groundwater sites:

Table 1. Water Quality Sites

Klaza-1	Surface water
Klaza -2	Surface water
Klaza -2a	Surface water
Klaza -3	Surface Water
Klaza-4	Surface Water
Klaza-5	Surface Water
Klaza-6	Surface Water
Klaza-7	Surface Water
Klaza-8	Surface Water
Klaza-9	Surface Water
Klaza-10	Surface Water
Klaza-12	Surface Water
Mw15-01 (d and s)	Groundwater
Mw 15-02 (d and s)	Groundwater
Mw15-03 (d and s)	Groundwater
Mw15-04 (d and s)	Groundwater
Mw15-05 (d and s)	Groundwater

The August 2020 sampling event included the following sites:

Klaza-1	Sampled, Flows
Klaza -2	missed
Klaza -2a	New station-sampled
Klaza -3	Sampled, Flows
Klaza-4	Sampled, Flows
Klaza-5	Sampled, Flows
Klaza-6	Sampled
Klaza-7	missed
Klaza-8	missed
Klaza-9	Sampled
Klaza-10	Sampled
Klaza-12	Sampled, Flows
Mw15-01 (d)	sampled
Mw 15-02 (s)	Groundwater
Mw15-03 (s)	Groundwater
Mw15-04 (s)	Groundwater
Mw15-05 (d and s)	missed

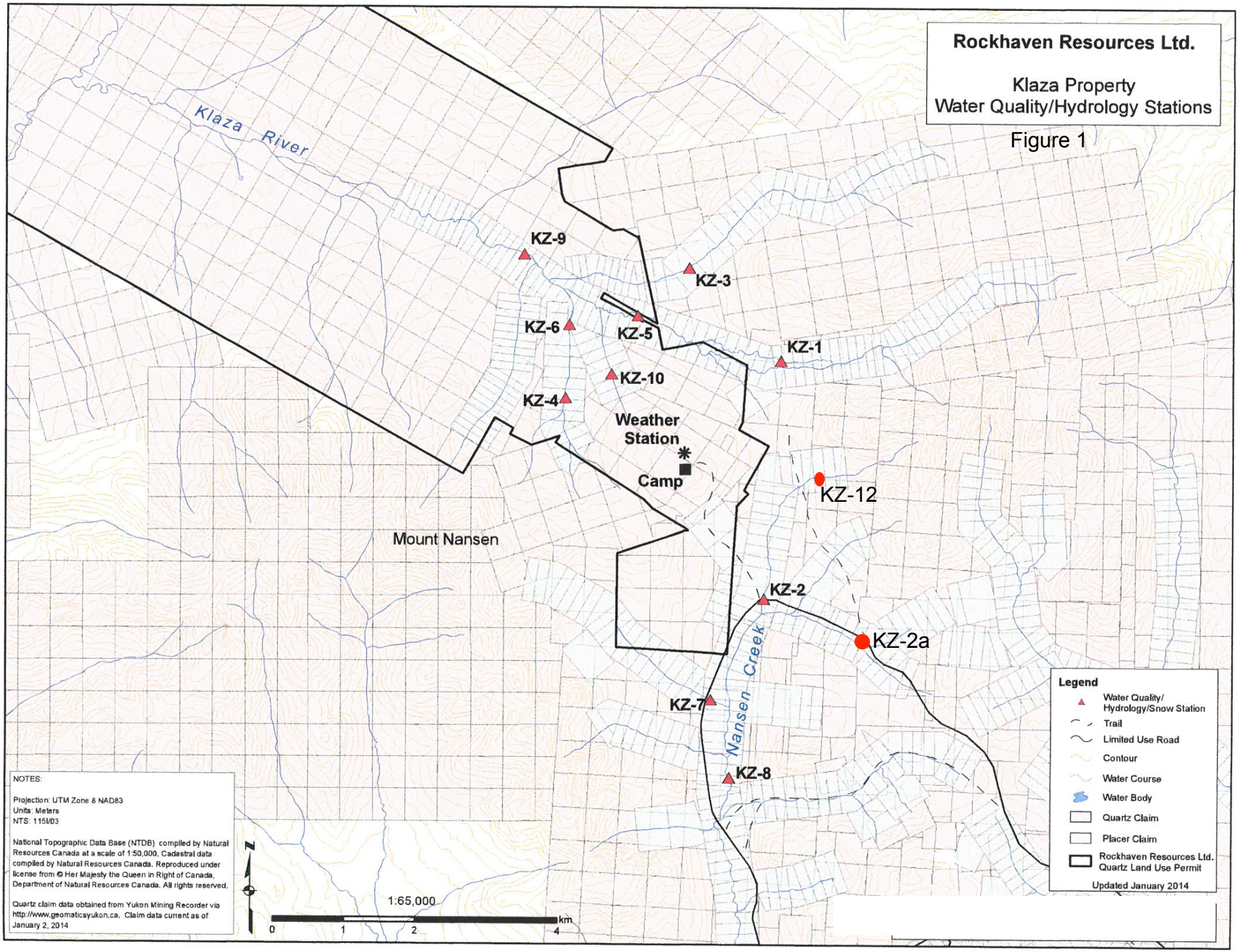
Klaza 2, 7, and 8 were missed due to access issues. These are located on or adjacent to active placer mining operations on Nansen Creek. A new station on Nansen Creek was established, Klaza 2a, that captures immediate downstream effects of placer operation on Nansen Creek. Further, Klaza 12 was established and captures water from above influences, and can be considered background.

All but one deep well was frozen, MW15-01 (d) and it was sampled. The shallow well MW15-01 (s) was dry. All other shallow wells were sampled. MW15-05 could not be located. Attempts to locate will occur next sampling event.

Results-Surface Water

Three surface water sites exceeded Canadian Councils Ministers of the Environment (CCME) Aquatic Life Guidelines (SEE TABLE 2). These stations were Klaza 2a, Klaza 9 and Klaza 10. Klaza 2a, the station in the direct influence of placer mining activity ,exceeded Total Arsenic, Cadmium, Copper, Iron, Lead, Silver and Zinc. Klaza 9 exceeded Total Copper, Iron and Lead. Klaza 10 exceeded Total Iron and Lead.

None of the other stations exceeded any limits. Photos of each site sampled were taken in August 2020, and are included in this report. Klaza 2a, 9 and 10 are visibly affected by placer mining activity as seen in the photos below.


Rockhaven Resources Ltd.
Klaza Property
Water Quality/Hydrology Stations
Figure 1
Klaza River
KZ-9
KZ-3
KZ-6
KZ-5
KZ-1
KZ-10
KZ-4
Weather Station
Camp
KZ-12
Mount Nansen
KZ-2
KZ-2a
KZ-7
Nansen Creek
KZ-8
NOTES:
Projection: UTM Zone 8 NAD83
Units: Meters
NTS: 115I/03
National Topographic Data Base (NTDB) compiled by Natural Resources Canada at a scale of 1:50,000, Cadastral data compiled by Natural Resources Canada. Reproduced under license from © Her Majesty the Queen in Right of Canada, Department of Natural Resources Canada. All rights reserved.
Quartz claim data obtained from Yukon Mining Recorder via http://www.geomaticsyukon.ca. Claim data current as of January 2, 2014
N
1:65,000
0
1
2
4
km
Legend
Water Quality/ Hydrology/Snow Station
Trail
Limited Use Road
Contour
Water Course
Water Body
Quartz Claim
Placer Claim
Rockhaven Resources Ltd. Quartz Land Use Permit
Updated January 2014

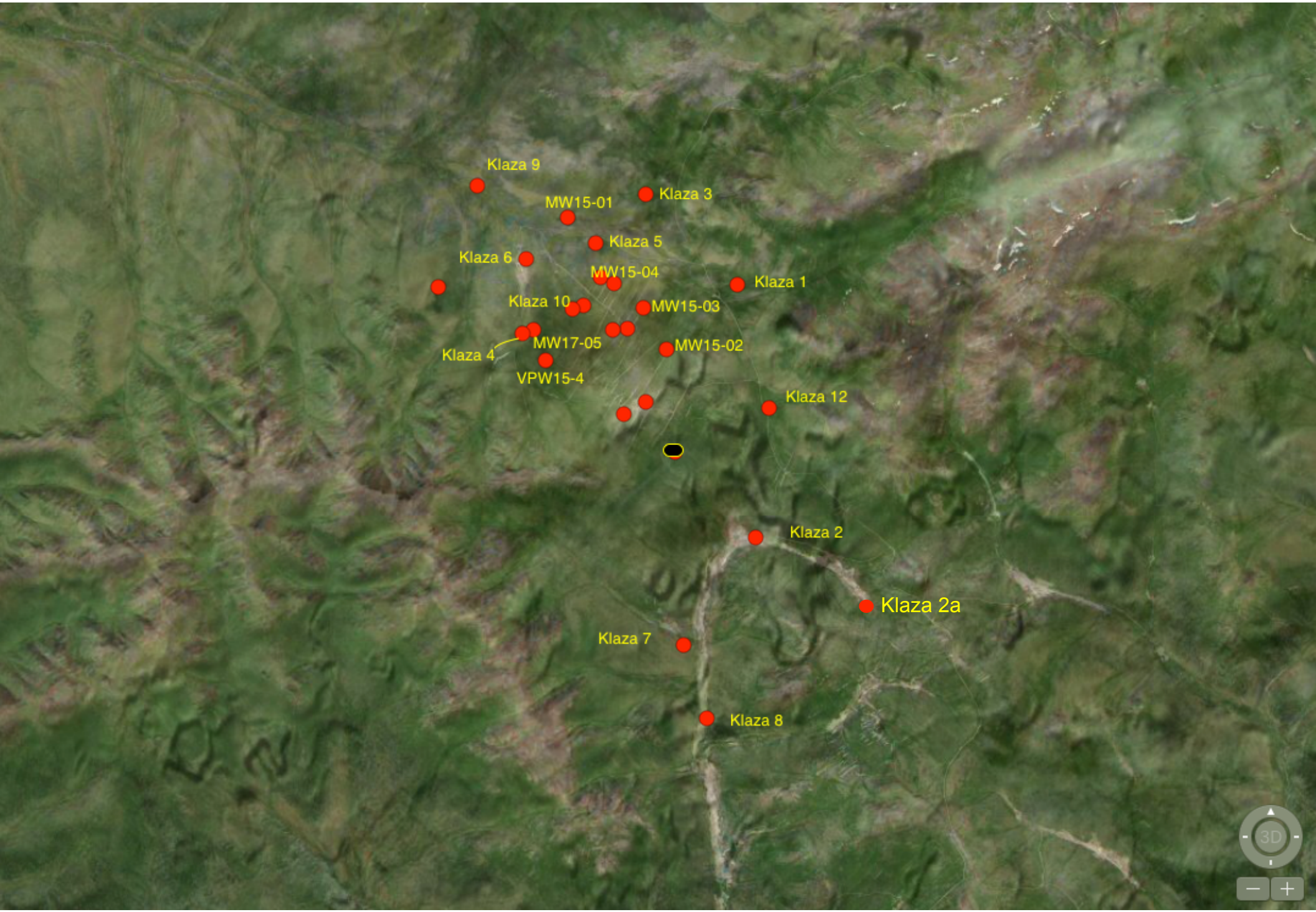

Klaza 9
MW15-01
Klaza 3
Klaza 5
Klaza 6
MW15-04
Klaza 1
Klaza 10
MW15-03
MW17-05
MW15-02
Klaza 4
VPW15-4
Klaza 12
Klaza 2
Klaza 2a
Klaza 7
Klaza 8
3D

Photo 1- Klaza-9



TABLE 2. WATER QUALITY RESULTS

	UNITS		KLAZA-1	KLAZA-3	KLAZA-12	KLAZA-2a	KLAZA-4	KLAZA-5	KLAZA-6	KLAZA-9	KLAZA-10
Calculated Parameters											
Total Hardness (CaCO3)	mg/L		26.6	22.3	40.5	70.3	34.0	21.1	89.5	29.9	9.15
Elements											
Total Mercury (Hg)	ug/L		0.0060	0.0037	0.0040	0.0024	0.0100	0.0103	<0.0019	0.0031	0.0086
		FW									
Total Metals by ICPMS											
Total Aluminum (Al)	ug/L	-	32.0	90.6	24.4	4420	68.1	271	150	1250	549
Total Antimony (Sb)	ug/L	-	0.070	0.050	0.092	1.35	0.131	0.080	0.205	0.194	0.109
Total Arsenic (As)	ug/L	5	0.073	0.123	0.805	11.0	0.693	0.276	1.08	1.90	1.33
Total Barium (Ba)	ug/L	-	25.7	25.8	63.5	117	64.7	30.4	131	68.9	57.5
Total Beryllium (Be)	ug/L	-	<0.010	<0.010	<0.010	0.218	<0.010	0.016	0.011	0.052	0.032
Total Bismuth (Bi)	ug/L	-	<0.0050	<0.010	<0.0050	0.764	<0.010	<0.010	0.0120	0.034	0.013
Total Boron (B)	ug/L	1500	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Cadmium (Cd)	ug/L	-	0.0068	0.0061	0.0149	0.684	0.0135	0.0181	0.0246	0.0904	0.0393
Total Chromium (Cr)	ug/L	-	0.11	0.17	<0.10	4.78	0.13	0.73	0.22	1.60	0.46
Total Cobalt (Co)	ug/L	-	0.0239	0.035	0.0185	4.40	0.040	0.114	0.103	0.684	0.157
Total Copper (Cu)	ug/L	-	0.585	0.97	0.605	86.4	1.84	1.25	1.58	3.16	2.18
Total Iron (Fe)	ug/L	300	16.6	44.1	12.0	8340	104	296	217	1730	504
Total Lead (Pb)	ug/L	-	0.0151	<0.020	0.0201	15.4	0.109	0.194	0.710	2.62	0.953
Total Lithium (Li)	ug/L	-	<0.50	<0.50	<0.50	3.53	<0.50	<0.50	1.14	0.96	0.61
Total Manganese (Mn)	ug/L	-	0.527	1.49	0.337	130	9.25	8.47	11.1	81.4	10.8
Total Molybdenum (Mo)	ug/L	73	0.067	0.088	0.182	2.04	0.270	0.081	0.466	0.212	0.078
Total Nickel (Ni)	ug/L	-	0.080	0.31	0.082	4.26	0.29	0.37	0.215	1.16	0.56
Total Phosphorus (P)	ug/L	-	4.4	6.0	3.9	215	7.1	16.4	7.2	61.7	17.3
Total Selenium (Se)	ug/L	1	<0.040	<0.040	<0.040	0.177	<0.040	<0.040	<0.040	0.052	<0.040
Total Silicon (Si)	ug/L	-	4010	4810	4060	12700	5430	4400	5040	6270	7600
Total Silver (Ag)	ug/L	0.25	<0.0050	<0.010	0.0055	0.318	<0.010	<0.010	0.0104	0.022	0.025
Total Strontium (Sr)	ug/L	-	59.5	55.0	56.4	187	86.9	43.5	243	70.3	19.9
Total Thallium (Tl)	ug/L	0.8	0.0030	<0.0020	0.0035	0.101	<0.0020	0.0033	0.0058	0.0189	0.0135
Total Tin (Sn)	ug/L	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Total Titanium (Ti)	ug/L	-	<0.50	<2.0	<0.50	174	<2.0	9.4	6.74	43.3	17.1
Total Uranium (U)	ug/L	15	0.0830	0.189	0.0849	1.70	0.0857	0.0772	1.68	0.380	0.182
Total Vanadium (V)	ug/L	-	<0.20	<0.20	<0.20	13.9	<0.20	0.73	0.57	3.61	0.96
Total Zinc (Zn)	ug/L	30	0.24	<1.0	0.53	53.5	1.2	1.7	1.67	8.9	3.1
Total Zirconium (Zr)	ug/L	-	<0.10	0.12	<0.10	0.92	0.50	0.11	0.15	0.20	0.24
Total Calcium (Ca)	mg/L	-	7.87	6.19	13.0	18.4	10.1	6.20	26.7	8.28	2.57
Total Magnesium (Mg)	mg/L	-	1.70	1.65	1.92	5.92	2.16	1.38	5.55	2.23	0.66
Total Potassium (K)	mg/L	-	0.216	<0.25	0.282	1.32	0.34	<0.25	0.644	0.53	<0.25
Total Sodium (Na)	mg/L	-	1.26	1.56	1.28	2.39	1.57	1.22	2.32	1.49	1.23
Total Sulphur (S)	mg/L		<3.0	<3.0	<3.0	10.4	<3.0	<3.0	3.6	<3.0	<3.0
Total Sulphur (S)	ug/L			<600		10400	2850	778		1250	703

Photo 2- Klaza-2a



Photo 3- Klaza-10



Photo-4 Klaza-1



Photo 5- Klaza-12



Results-Groundwater

Water quality results for dissolved metals in groundwater wells sampled are included in Table 3. Mw-15-02 (s) exceeded dissolved metal concentrations for Cadmium and Zinc. Dissolved metal concentration in MW15-01 (d) exceeded Iron. Well measurements were recorded, but the data was lost in the field (lost note book).

Table 3 Groundwater Results

	UNITS		MW 15-01 (d)	MW 15-02 (s)	MW 15-03 (s)	MW 15-04 (s)
Calculated Parameters						
Dissolved Hardness (CaCO3)	mg/L		300	76.2	193	138
Elements						
Dissolved Mercury (Hg)	ug/L		<0.0019	0.0030	0.0019	0.0028
		FW				
Dissolved Metals by ICPMS						
Dissolved Aluminum (Al)	ug/L	-	8.08	5.67	2.45	4.31
Dissolved Antimony (Sb)	ug/L	-	0.237	0.083	0.404	0.193
Dissolved Arsenic (As)	ug/L	5	3.30	1.38	0.196	0.235
Dissolved Barium (Ba)	ug/L	-	80.0	233	53.2	76.8
Dissolved Beryllium (Be)	ug/L	-	<0.010	<0.010	<0.010	<0.010
Dissolved Bismuth (Bi)	ug/L	-	0.236	0.0335	0.0140	<0.0050
Dissolved Boron (B)	ug/L	1500	<10	<10	<10	<10
Dissolved Cadmium (Cd)	ug/L	-	0.0541	2.85	0.120	0.0660
Dissolved Chromium (Cr)	ug/L	-	0.11	<0.10	<0.10	0.19
Dissolved Cobalt (Co)	ug/L	-	0.173	0.0426	0.0463	0.0245
Dissolved Copper (Cu)	ug/L	-	2.96	1.82	0.984	0.838
Dissolved Iron (Fe)	ug/L	300	447	6.5	30.4	4.1
Dissolved Lead (Pb)	ug/L	-	0.0572	0.0347	0.0237	0.0102
Dissolved Lithium (Li)	ug/L	-	5.32	1.35	1.75	1.67
Dissolved Manganese (Mn)	ug/L	-	425	18.4	6.02	0.858
Dissolved Molybdenum (Mo)	ug/L	73	5.19	0.051	0.181	0.626
Dissolved Nickel (Ni)	ug/L	-	0.134	0.752	0.173	0.151
Dissolved Phosphorus (P)	ug/L	-	46.5	28.4	7.5	5.7
Dissolved Selenium (Se)	ug/L	1	<0.040	<0.040	<0.040	<0.040
Dissolved Silicon (Si)	ug/L	-	6690	8410	5790	5700
Dissolved Silver (Ag)	ug/L	0.25	<0.0050	0.0098	<0.0050	0.0058
Dissolved Strontium (Sr)	ug/L	-	2430	132	248	171
Dissolved Thallium (Tl)	ug/L	0.8	0.0029	0.0048	0.0040	<0.0020
Dissolved Tin (Sn)	ug/L	-	0.31	0.42	<0.20	<0.20
Dissolved Titanium (Ti)	ug/L	-	0.62	<0.50	<0.50	<0.50
Dissolved Uranium (U)	ug/L	15	11.9	0.0571	3.00	3.12
Dissolved Vanadium (V)	ug/L	-	<0.20	<0.20	<0.20	<0.20
Dissolved Zinc (Zn)	ug/L	30	23.7	110	9.79	1.39
Dissolved Zirconium (Zr)	ug/L	-	<0.10	<0.10	<0.10	<0.10
Dissolved Calcium (Ca)	mg/L	-	90.6	22.2	61.9	39.6
Dissolved Magnesium (Mg)	mg/L	-	18.0	5.03	9.28	9.37
Dissolved Potassium (K)	mg/L	-	1.84	0.387	0.564	0.590
Dissolved Sodium (Na)	mg/L	-	5.78	4.69	4.12	1.80
Dissolved Sulphur (S)	mg/L		37.8	15.1	20.6	<3.0

Closing

During the next scheduled sampling event, in late October, efforts will be made to sample Klaza-2, 7 and 8, as well as locating MW15-05. Monitoring well water levels and depths will be recorded. All field data and lab results are included in Appendix A, as is some additional samples taken by LSCFN environmental monitors in June 2019. Field data is attached in a separate excel file.

APPENDIX A
WATER QUALITY DATA AND FIELD DATA

Your C.O.C. #: 617544-05-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/03
Report #: R2924153
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C060047
Received: 2020/08/21, 16:40

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO3)	4	N/A	2020/08/26	BBY6SOP-00037	SM 23 2310 B m
Alkalinity - Low Level	4	N/A	2020/08/25	BBY6SOP-00026	SM 23 2320 B m
Low level chloride/sulphate by AC	4	N/A	2020/08/25	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Cyanide SAD (strong acid dissociable) (1)	4	N/A	2020/08/26	CAL SOP-00270	SM 23 4500-CN m
Carbon (DOC) (1, 2)	3	N/A	2020/08/27	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) (1, 2)	1	N/A	2020/08/29	AB SOP-00087	MMCW 119 1996 m
Conductance - Low Level	4	N/A	2020/08/25	BBY6SOP-00026	SM 23 2510 B m
Fluoride - Low Level	4	N/A	2020/08/25	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (3)	4	N/A	2020/08/28	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	4	2020/08/26	2020/08/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	4	2020/08/26	2020/08/26	AB SOP-00084	BCMOE BCLM Oct2013 m
Ion Balance (as Cations/Anions Ratio)	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Ion Balance	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	4	N/A	2020/08/26	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	4	2020/08/25	2020/08/27	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	N/A	2020/08/28	BBY WI-00033	Auto Calc
Nitrogen (Total)	4	N/A	2020/08/25	BBY6SOP-00016	SM 23 4500-N C m
Ammonia-N Low Level (Preserved) (1)	4	N/A	2020/08/27	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	4	N/A	2020/08/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	4	N/A	2020/08/25	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	4	N/A	2020/08/24	BBY7 WI-00004	SM 23 3030B m
pH @25°C (4)	4	N/A	2020/08/25	BBY6SOP-00026	SM 23 4500-H+ B m
Orthophosphate by Konelab (low level)	4	N/A	2020/08/25	BBY6SOP-00013	SM 23 4500-P E m
Total Dissolved Solids (Filt. Residue)	2	2020/08/26	2020/08/27	BBY6SOP-00033	SM 23 2540 C m
Total Dissolved Solids (Filt. Residue)	2	2020/08/27	2020/08/28	BBY6SOP-00033	SM 23 2540 C m
TKN (Calc. TN, N/N) total	4	N/A	2020/08/26	BBY WI-00033	Auto Calc
Carbon (Total Organic) (1, 5)	4	N/A	2020/08/27	AB SOP-00087	MMCW 119 1996 m

Your C.O.C. #: 617544-05-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/03
Report #: R2924153
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C060047
Received: 2020/08/21, 16:40

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Phosphorus Low Level Total (1)	4	2020/08/30	2020/08/31	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR)	4	2020/08/26	2020/08/27	BBY6SOP-00034	SM 23 2540 D m
Turbidity	4	N/A	2020/08/25	BBY6SOP-00027	SM 23 2130 B m

Remarks:

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All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by BV Labs Calgary Environmental
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
(5) TOC present in the sample should be considered as non-purgeable TOC.

Your C.O.C. #: 617544-05-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/03
Report #: R2924153
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C060047
Received: 2020/08/21, 16:40

Encryption Key



Diana Fausto
Project Manager
03 Sep 2020 10:08:53

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (604) 734 7276

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BV Labs Job #: C060047
Report Date: 2020/09/03

Rockhaven Resources Ltd.

RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		YH9059		YH9060		YH9061	YH9062		
Sampling Date		2020/08/19 13:05		2020/08/19 15:40		2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01		617544-05-01		617544-05-01	617544-05-01		
	UNITS	MW 15-01	QC Batch	MW 15-02	QC Batch	MW 15-03	MW 15-04	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	9973702	<0.0050	9973702	<0.0050	<0.0050	0.0050	9973702
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	FIELD		ONSITE
Ion Balance	N/A	0.90	9972211	0.85	9972211	0.90	0.93	0.010	9972211
Ion Balance (% Difference)	%	5.1	9972212	8.0	9972212	5.2	3.7	N/A	9972212
Nitrate (N)	mg/L	<0.020	9971749	0.782	9971749	0.513	0.491	0.020	9971749
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.670	9972214	0.333	9972214	0.176	0.158	0.020	9972214
Misc. Inorganics									
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.00050	9974617	<0.00050	9974617	<0.00050	<0.00050	0.00050	9974617
Fluoride (F)	mg/L	0.360	9973129	0.029	9973129	0.038	0.059	0.010	9973129
Dissolved Organic Carbon (C)	mg/L	9.2	9980056	3.1	9977035	2.8	5.3	0.50	9977035
pH	pH	7.54	9973496	6.64	9973496	7.33	7.68	N/A	9973496
Acidity (pH 4.5)	mg/L	<1.0	9975748	<1.0	9975748	<1.0	<1.0	1.0	9975748
Alkalinity (Total as CaCO3)	mg/L	208	9973488	42.0	9973488	144	142	0.50	9973488
Total Organic Carbon (C)	mg/L	10	9975910	3.2	9975910	3.0	5.3	0.50	9975910
Acidity (pH 8.3)	mg/L	13.5	9975748	19.4	9975748	10.3	2.6	1.0	9975748
Alkalinity (PP as CaCO3)	mg/L	<0.50	9973488	<0.50	9973488	<0.50	<0.50	0.50	9973488
Bicarbonate (HCO3)	mg/L	254	9973488	51.3	9973488	176	173	0.50	9973488
Carbonate (CO3)	mg/L	<0.50	9973488	<0.50	9973488	<0.50	<0.50	0.50	9973488
Hydroxide (OH)	mg/L	<0.50	9973488	<0.50	9973488	<0.50	<0.50	0.50	9973488
Total Dissolved Solids	mg/L	430	9975347	150	9975347	290	190	10	9976844
Total Suspended Solids	mg/L	46	9974877	24	9974877	61	40	1.0	9975770
Anions									
Orthophosphate (P)	mg/L	<0.0010	9973420	0.016	9973420	<0.0010	0.0026	0.0010	9973420
Dissolved Chloride (Cl)	mg/L	2.0	9974018	0.73	9974018	0.83	1.3	0.50	9974018
Dissolved Sulphate (SO4)	mg/L	130	9974018	54	9974018	74	7.3	0.50	9974018
Nutrients									
Total Phosphorus (P)	mg/L	0.11	9980275	0.091	9980275	0.035	0.013	0.0010	9980275
Total Ammonia (N)	mg/L	0.061	9976551	0.075	9976551	0.038	<0.0050	0.0050	9976551
Nitrate plus Nitrite (N)	mg/L	<0.020	9973701	0.782	9973701	0.513	0.491	0.020	9973701
Total Nitrogen (N)	mg/L	0.670	9972910	1.11	9972910	0.689	0.650	0.020	9972910
Physical Properties									
Conductivity	uS/cm	617	9973497	195	9973497	412	276	1.0	9973497

RDL = Reportable Detection Limit
N/A = Not Applicable

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RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		YH9059		YH9060		YH9061	YH9062		
Sampling Date		2020/08/19 13:05		2020/08/19 15:40		2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01		617544-05-01		617544-05-01	617544-05-01		
	UNITS	**MW 15-01**	**QC Batch**	**MW 15-02**	**QC Batch**	**MW 15-03**	**MW 15-04**	**RDL**	**QC Batch**
Physical Properties									
Turbidity	NTU	9.2	9973909	5.6	9973909	44	13	0.10	9973909
RDL = Reportable Detection Limit									

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LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YH9059		YH9060	YH9061	YH9062		
Sampling Date		2020/08/19 13:05		2020/08/19 15:40	2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01		617544-05-01	617544-05-01	617544-05-01		
	UNITS	MW 15-01	QC Batch	MW 15-02	MW 15-03	MW 15-04	RDL	QC Batch
Calculated Parameters								
Dissolved Hardness (CaCO3)	mg/L	300	9971397	76.2	193	138	0.50	9971397
Elements								
Dissolved Mercury (Hg)	ug/L	<0.0019	9974369	0.0030	0.0019	0.0028	0.0019	9974369
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	8.08	9973312	5.67	2.45	4.31	0.50	9973312
Dissolved Antimony (Sb)	ug/L	0.237	9973312	0.083	0.404	0.193	0.020	9973312
Dissolved Arsenic (As)	ug/L	3.30	9973312	1.38	0.196	0.235	0.020	9973312
Dissolved Barium (Ba)	ug/L	80.0	9973312	233	53.2	76.8	0.020	9973312
Dissolved Beryllium (Be)	ug/L	<0.010	9973312	<0.010	<0.010	<0.010	0.010	9973312
Dissolved Bismuth (Bi)	ug/L	0.236	9973312	0.0335	0.0140	<0.0050	0.0050	9973312
Dissolved Boron (B)	ug/L	<10	9973312	<10	<10	<10	10	9973312
Dissolved Cadmium (Cd)	ug/L	0.0541	9973312	2.85	0.120	0.0660	0.0050	9973312
Dissolved Chromium (Cr)	ug/L	0.11	9973312	<0.10	<0.10	0.19	0.10	9973312
Dissolved Cobalt (Co)	ug/L	0.173	9973312	0.0426	0.0463	0.0245	0.0050	9973312
Dissolved Copper (Cu)	ug/L	2.96	9973312	1.82	0.984	0.838	0.050	9973312
Dissolved Iron (Fe)	ug/L	447	9973312	6.5	30.4	4.1	1.0	9973312
Dissolved Lead (Pb)	ug/L	0.0572	9973312	0.0347	0.0237	0.0102	0.0050	9973312
Dissolved Lithium (Li)	ug/L	5.32	9973312	1.35	1.75	1.67	0.50	9973312
Dissolved Manganese (Mn)	ug/L	425	9973312	18.4	6.02	0.858	0.050	9973312
Dissolved Molybdenum (Mo)	ug/L	5.19	9973312	0.051	0.181	0.626	0.050	9973312
Dissolved Nickel (Ni)	ug/L	0.134	9973312	0.752	0.173	0.151	0.020	9973312
Dissolved Phosphorus (P)	ug/L	46.5	9973312	28.4	7.5	5.7	2.0	9973312
Dissolved Selenium (Se)	ug/L	<0.040	9973312	<0.040	<0.040	<0.040	0.040	9973312
Dissolved Silicon (Si)	ug/L	6690	9973312	8410	5790	5700	50	9973312
Dissolved Silver (Ag)	ug/L	<0.0050	9973312	0.0098	<0.0050	0.0058	0.0050	9973312
Dissolved Strontium (Sr)	ug/L	2430	9973312	132	248	171	0.050	9973312
Dissolved Thallium (Tl)	ug/L	0.0029	9973312	0.0048	0.0040	<0.0020	0.0020	9973312
Dissolved Tin (Sn)	ug/L	0.31	9973312	0.42	<0.20	<0.20	0.20	9973312
Dissolved Titanium (Ti)	ug/L	0.62	9973312	<0.50	<0.50	<0.50	0.50	9973312
Dissolved Uranium (U)	ug/L	11.9	9973312	0.0571	3.00	3.12	0.0020	9973312
Dissolved Vanadium (V)	ug/L	<0.20	9973312	<0.20	<0.20	<0.20	0.20	9973312
Dissolved Zinc (Zn)	ug/L	23.7	9973312	110	9.79	1.39	0.10	9973312
Dissolved Zirconium (Zr)	ug/L	<0.10	9981590	<0.10	<0.10	<0.10	0.10	9973312
Dissolved Calcium (Ca)	mg/L	90.6	9971398	22.2	61.9	39.6	0.050	9971398
RDL = Reportable Detection Limit								

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LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YH9059		YH9060	YH9061	YH9062		
Sampling Date		2020/08/19 13:05		2020/08/19 15:40	2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01		617544-05-01	617544-05-01	617544-05-01		
	UNITS	MW 15-01	QC Batch	MW 15-02	MW 15-03	MW 15-04	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	18.0	9971398	5.03	9.28	9.37	0.050	9971398
Dissolved Potassium (K)	mg/L	1.84	9971398	0.387	0.564	0.590	0.050	9971398
Dissolved Sodium (Na)	mg/L	5.78	9971398	4.69	4.12	1.80	0.050	9971398
Dissolved Sulphur (S)	mg/L	37.8	9971398	15.1	20.6	<3.0	3.0	9971398
RDL = Reportable Detection Limit								

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YH9059	YH9060	YH9061	YH9062		
Sampling Date		2020/08/19 13:05	2020/08/19 15:40	2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01	617544-05-01	617544-05-01	617544-05-01		
	UNITS	MW 15-01	MW 15-02	MW 15-03	MW 15-04	RDL	QC Batch
Calculated Parameters							
Total Hardness (CaCO3)	mg/L	295	76.0	195	137	0.50	9971396
Elements							
Total Mercury (Hg)	ug/L	0.0021	<0.0019	<0.0019	0.0056	0.0019	9974336
Total Metals by ICPMS							
Total Aluminum (Al)	ug/L	153	131	692	260	3.0	9972765
Total Antimony (Sb)	ug/L	0.424	0.293	0.753	0.274	0.020	9972765
Total Arsenic (As)	ug/L	6.53	2.78	3.53	0.662	0.020	9972765
Total Barium (Ba)	ug/L	88.8	246	95.7	91.7	0.050	9972765
Total Beryllium (Be)	ug/L	0.013	0.030	0.077	0.037	0.010	9972765
Total Bismuth (Bi)	ug/L	0.833	0.128	0.373	0.030	0.010	9972765
Total Boron (B)	ug/L	<10	<10	<10	<10	10	9972765
Total Cadmium (Cd)	ug/L	0.228	3.00	0.281	0.138	0.0050	9972765
Total Chromium (Cr)	ug/L	0.46	0.75	0.97	0.92	0.10	9972765
Total Cobalt (Co)	ug/L	0.287	0.174	0.619	0.146	0.010	9972765
Total Copper (Cu)	ug/L	4.89	3.23	4.72	1.63	0.10	9972765
Total Iron (Fe)	ug/L	1740	704	2750	346	5.0	9972765
Total Lead (Pb)	ug/L	1.16	1.75	4.68	0.915	0.020	9972765
Total Lithium (Li)	ug/L	5.25	1.51	2.17	1.96	0.50	9972765
Total Manganese (Mn)	ug/L	414	25.0	74.2	20.0	0.10	9972765
Total Molybdenum (Mo)	ug/L	5.53	0.083	0.330	0.769	0.050	9972765
Total Nickel (Ni)	ug/L	0.38	1.12	1.13	0.44	0.10	9972765
Total Phosphorus (P)	ug/L	99.0	112	54.4	27.7	5.0	9972765
Total Selenium (Se)	ug/L	<0.040	<0.040	<0.040	<0.040	0.040	9972765
Total Silicon (Si)	ug/L	6450	8190	6580	5800	50	9972765
Total Silver (Ag)	ug/L	0.043	0.172	0.715	0.196	0.010	9972765
Total Strontium (Sr)	ug/L	2260	126	247	164	0.050	9972765
Total Thallium (Tl)	ug/L	0.0060	0.0083	0.0311	0.0110	0.0020	9972765
Total Tin (Sn)	ug/L	0.76	0.70	0.79	0.59	0.20	9972765
Total Titanium (Ti)	ug/L	7.0	3.5	10.0	7.6	2.0	9972765
Total Uranium (U)	ug/L	11.7	0.128	3.40	3.28	0.0050	9972765
Total Vanadium (V)	ug/L	0.52	0.41	1.22	0.38	0.20	9972765
Total Zinc (Zn)	ug/L	25.8	132	34.9	4.1	1.0	9972765
Total Zirconium (Zr)	ug/L	<0.10 (1)	<0.10	<0.10	<0.10	0.10	9972765

RDL = Reportable Detection Limit
(1) Matrix Spike outside acceptance criteria due to sample matrix interference.

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YH9059	YH9060	YH9061	YH9062		
Sampling Date		2020/08/19 13:05	2020/08/19 15:40	2020/08/20 13:10	2020/08/20 16:30		
COC Number		617544-05-01	617544-05-01	617544-05-01	617544-05-01		
	UNITS	MW 15-01	MW 15-02	MW 15-03	MW 15-04	RDL	QC Batch
Total Calcium (Ca)	mg/L	89.7	22.0	62.2	39.4	0.25	9971399
Total Magnesium (Mg)	mg/L	17.3	5.11	9.60	9.34	0.25	9971399
Total Potassium (K)	mg/L	1.79	0.43	0.92	0.70	0.25	9971399
Total Sodium (Na)	mg/L	5.69	4.76	3.99	1.94	0.25	9971399
Total Sulphur (S)	mg/L	38.0	15.3	21.4	<3.0	3.0	9971399
Total Sulphur (S)	ug/L	38000	15300	21400	1760	600	9972765
RDL = Reportable Detection Limit							

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GENERAL COMMENTS

Sample YH9059 [MW 15-01] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample YH9060 [MW 15-02] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample YH9061 [MW 15-03] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample YH9062 [MW 15-04] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Nitrate + Nitrite (N). Sample was analyzed past method specified hold time for Nitrite (N) by CFA.

Sample YH9059, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

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BV Labs Job #: C060047
Report Date: 2020/09/03

QUALITY ASSURANCE REPORT

Rockhaven Resources Ltd.

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9972765	Total Aluminum (Al)	2020/08/27	116	80 - 120	102	80 - 120	<3.0	ug/L	0.47	20		
9972765	Total Antimony (Sb)	2020/08/27	100	80 - 120	99	80 - 120	<0.020	ug/L	0.47	20		
9972765	Total Arsenic (As)	2020/08/27	106	80 - 120	99	80 - 120	<0.020	ug/L	1.9	20		
9972765	Total Barium (Ba)	2020/08/27	NC	80 - 120	105	80 - 120	<0.050	ug/L	1.9	20		
9972765	Total Beryllium (Be)	2020/08/27	97	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
9972765	Total Bismuth (Bi)	2020/08/27	92	80 - 120	98	80 - 120	<0.010	ug/L	2.8	20		
9972765	Total Boron (B)	2020/08/27	93	80 - 120	94	80 - 120	<10	ug/L	NC	20		
9972765	Total Cadmium (Cd)	2020/08/27	100	80 - 120	100	80 - 120	<0.0050	ug/L	2.4	20		
9972765	Total Chromium (Cr)	2020/08/27	99	80 - 120	103	80 - 120	<0.10	ug/L	9.5	20		
9972765	Total Cobalt (Co)	2020/08/27	97	80 - 120	103	80 - 120	<0.010	ug/L	2.5	20		
9972765	Total Copper (Cu)	2020/08/27	92	80 - 120	102	80 - 120	<0.10	ug/L	6.6	20		
9972765	Total Iron (Fe)	2020/08/27	NC	80 - 120	105	80 - 120	<5.0	ug/L	1.5	20		
9972765	Total Lead (Pb)	2020/08/27	100	80 - 120	102	80 - 120	<0.020	ug/L	2.3	20		
9972765	Total Lithium (Li)	2020/08/27	95	80 - 120	95	80 - 120	<0.50	ug/L	0.24	20		
9972765	Total Manganese (Mn)	2020/08/27	NC	80 - 120	103	80 - 120	<0.10	ug/L	3.6	20		
9972765	Total Molybdenum (Mo)	2020/08/27	NC	80 - 120	99	80 - 120	<0.050	ug/L	0.19	20		
9972765	Total Nickel (Ni)	2020/08/27	95	80 - 120	102	80 - 120	<0.10	ug/L	0.21	20		
9972765	Total Phosphorus (P)	2020/08/27	105	80 - 120	102	80 - 120	<5.0	ug/L	15	20		
9972765	Total Selenium (Se)	2020/08/27	101	80 - 120	99	80 - 120	<0.040	ug/L	NC	20		
9972765	Total Silicon (Si)	2020/08/27	NC	80 - 120	105	80 - 120	<50	ug/L	0.90	20		
9972765	Total Silver (Ag)	2020/08/27	95	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
9972765	Total Strontium (Sr)	2020/08/27	NC	80 - 120	101	80 - 120	<0.050	ug/L	0.54	20		
9972765	Total Sulphur (S)	2020/08/27	105	80 - 120	100	80 - 120	<600	ug/L	0.96	20		
9972765	Total Thallium (Tl)	2020/08/27	99	80 - 120	97	80 - 120	<0.0020	ug/L	NC	20		
9972765	Total Tin (Sn)	2020/08/27	97	80 - 120	98	80 - 120	<0.20	ug/L	2.6	20		
9972765	Total Titanium (Ti)	2020/08/27	103	80 - 120	104	80 - 120	<2.0	ug/L	NC	20		
9972765	Total Uranium (U)	2020/08/27	114	80 - 120	111	80 - 120	0.0095, RDL=0.0050 (2)	ug/L	1.0	20		
9972765	Total Vanadium (V)	2020/08/27	103	80 - 120	102	80 - 120	<0.20	ug/L	18	20		
9972765	Total Zinc (Zn)	2020/08/27	96	80 - 120	105	80 - 120	<1.0	ug/L	0.83	20		
9972765	Total Zirconium (Zr)	2020/08/27	79 (1)	80 - 120	97	80 - 120	<0.10	ug/L	NC	20		
9972910	Total Nitrogen (N)	2020/08/25	NC	80 - 120	99	80 - 120	<0.020	mg/L	1.6	20		
9973129	Fluoride (F)	2020/08/25	102	80 - 120	106	80 - 120	<0.010	mg/L	0	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9973312	Dissolved Aluminum (Al)	2020/08/26	100	80 - 120	100	80 - 120	<0.50	ug/L	0.59	20		
9973312	Dissolved Antimony (Sb)	2020/08/26	99	80 - 120	98	80 - 120	<0.020	ug/L	NC	20		
9973312	Dissolved Arsenic (As)	2020/08/26	104	80 - 120	100	80 - 120	<0.020	ug/L	0.068	20		
9973312	Dissolved Barium (Ba)	2020/08/26	103	80 - 120	103	80 - 120	<0.020	ug/L	0.30	20		
9973312	Dissolved Beryllium (Be)	2020/08/26	96	80 - 120	98	80 - 120	<0.010	ug/L	NC	20		
9973312	Dissolved Bismuth (Bi)	2020/08/26	96	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20		
9973312	Dissolved Boron (B)	2020/08/26	89	80 - 120	88	80 - 120	<10	ug/L	0.39	20		
9973312	Dissolved Cadmium (Cd)	2020/08/26	99	80 - 120	100	80 - 120	<0.0050	ug/L	NC	20		
9973312	Dissolved Chromium (Cr)	2020/08/26	101	80 - 120	102	80 - 120	<0.10	ug/L	NC	20		
9973312	Dissolved Cobalt (Co)	2020/08/26	98	80 - 120	102	80 - 120	<0.0050	ug/L	2.9	20		
9973312	Dissolved Copper (Cu)	2020/08/26	93	80 - 120	100	80 - 120	<0.050	ug/L	1.9	20		
9973312	Dissolved Iron (Fe)	2020/08/26	103	80 - 120	106	80 - 120	<1.0	ug/L	4.7	20		
9973312	Dissolved Lead (Pb)	2020/08/26	103	80 - 120	104	80 - 120	<0.0050	ug/L	NC	20		
9973312	Dissolved Lithium (Li)	2020/08/26	93	80 - 120	94	80 - 120	<0.50	ug/L	0.65	20		
9973312	Dissolved Manganese (Mn)	2020/08/26	101	80 - 120	104	80 - 120	<0.050	ug/L	4.1	20		
9973312	Dissolved Molybdenum (Mo)	2020/08/26	102	80 - 120	99	80 - 120	<0.050	ug/L	4.4	20		
9973312	Dissolved Nickel (Ni)	2020/08/26	97	80 - 120	101	80 - 120	<0.020	ug/L	2.1	20		
9973312	Dissolved Phosphorus (P)	2020/08/26	106	80 - 120	100	80 - 120	<2.0	ug/L				
9973312	Dissolved Selenium (Se)	2020/08/26	102	80 - 120	99	80 - 120	<0.040	ug/L	13	20		
9973312	Dissolved Silicon (Si)	2020/08/26	107	80 - 120	110	80 - 120	<50	ug/L	0.77	20		
9973312	Dissolved Silver (Ag)	2020/08/26	100	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20		
9973312	Dissolved Strontium (Sr)	2020/08/26	NC	80 - 120	102	80 - 120	<0.050	ug/L	0.89	20		
9973312	Dissolved Thallium (Tl)	2020/08/26	100	80 - 120	99	80 - 120	<0.0020	ug/L	17	20		
9973312	Dissolved Tin (Sn)	2020/08/26	98	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
9973312	Dissolved Titanium (Ti)	2020/08/26	103	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
9973312	Dissolved Uranium (U)	2020/08/26	110	80 - 120	106	80 - 120	<0.0020	ug/L	0.92	20		
9973312	Dissolved Vanadium (V)	2020/08/26	103	80 - 120	103	80 - 120	<0.20	ug/L	1.2	20		
9973312	Dissolved Zinc (Zn)	2020/08/26	98	80 - 120	103	80 - 120	<0.10	ug/L	5.9	20		
9973312	Dissolved Zirconium (Zr)	2020/08/26	103	80 - 120	97	80 - 120	<0.10	ug/L	0.20	20		
9973420	Orthophosphate (P)	2020/08/25	101	80 - 120	100	80 - 120	<0.0010	mg/L	8.4	20		
9973488	Alkalinity (PP as CaCO3)	2020/08/25					<0.50	mg/L	NC	20		
9973488	Alkalinity (Total as CaCO3)	2020/08/25	NC	80 - 120	97	80 - 120	<0.50	mg/L	0.029	20		
9973488	Bicarbonate (HCO3)	2020/08/25					<0.50	mg/L	0.029	20		
9973488	Carbonate (CO3)	2020/08/25					<0.50	mg/L	NC	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9973488	Hydroxide (OH)	2020/08/25					<0.50	mg/L	NC	20		
9973496	pH	2020/08/25			101	97 - 103			0.92	N/A		
9973497	Conductivity	2020/08/25			98	80 - 120	<1.0	uS/cm	0.28	20		
9973701	Nitrate plus Nitrite (N)	2020/08/25			104	80 - 120	<0.020	mg/L				
9973702	Nitrite (N)	2020/08/25	98	80 - 120	95	80 - 120	<0.0050	mg/L	NC	20		
9973909	Turbidity	2020/08/25			102	80 - 120	<0.10	NTU	5.6	20		
9974018	Dissolved Chloride (Cl)	2020/08/25	98	80 - 120	104	80 - 120	0.64, RDL=0.50	mg/L	1.3	20		
9974018	Dissolved Sulphate (SO4)	2020/08/25	NC	80 - 120	99	80 - 120	<0.50	mg/L	10	20		
9974336	Total Mercury (Hg)	2020/08/26	103	80 - 120	102	80 - 120	<0.0019	ug/L	NC	20		
9974369	Dissolved Mercury (Hg)	2020/08/26	68 (1)	80 - 120	102	80 - 120	<0.0019	ug/L	NC	20		
9974617	Strong Acid Dissoc. Cyanide (CN)	2020/08/26	117	80 - 120	107	80 - 120	<0.00050	mg/L	NC	20		
9974877	Total Suspended Solids	2020/08/27	108	80 - 120	102	80 - 120	<1.0	mg/L	5.6	20		
9975347	Total Dissolved Solids	2020/08/27	108	80 - 120	102	80 - 120	<10	mg/L	2.7	20		
9975748	Acidity (pH 4.5)	2020/08/26					<1.0	mg/L	NC	20		
9975748	Acidity (pH 8.3)	2020/08/26			102	80 - 120	<1.0	mg/L	0.59	20		
9975770	Total Suspended Solids	2020/08/27	107	80 - 120	98	80 - 120	<1.0	mg/L	2.0	20		
9975910	Total Organic Carbon (C)	2020/08/27	NC	80 - 120	118	80 - 120	<0.50	mg/L	3.8	20		
9976551	Total Ammonia (N)	2020/08/27	NC	80 - 120	103	80 - 120	<0.0050	mg/L	0.62	20		
9976844	Total Dissolved Solids	2020/08/28	102	80 - 120	103	80 - 120	<10	mg/L	2.7	20		
9977035	Dissolved Organic Carbon (C)	2020/08/27	105	80 - 120	112	80 - 120	<0.50	mg/L	0.23	20		
9980056	Dissolved Organic Carbon (C)	2020/08/29	115	80 - 120	119	80 - 120	<0.50	mg/L	NC	20		
9980275	Total Phosphorus (P)	2020/08/31	98	80 - 120	98	80 - 120	<0.0010	mg/L	11	20	94	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9981590	Dissolved Zirconium (Zr)	2020/08/31			96	80 - 120	<0.10	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

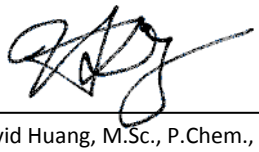
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Method Blank exceeds acceptance limits for U - 2X RDL acceptable for low level metals determination.

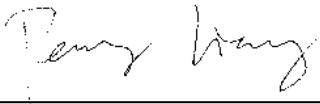
Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Harry (Peng) Liang, Senior Analyst

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas Laboratories
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C060047_COC

INVOICE TO:		Report Information		Project Information	
Company Name	#12708 Rockhaven Resources Ltd.	Company Name		Quotation #	
Contact Name	Jillian Chown	Contact Name	Jillian Chown	P.O. #	
Address	1016-510 West Hastings Street Vancouver BC V6B 1L8	Address		Project #	
Phone	(604) 688-2568 Fax (604) 687-2582	Phone	Fax	Project Name	
Email	chownjpc@gmail.com	Email	chownjpc@gmail.com	Site #	
				Sampled By	

Chain Of Custody Record: C#617544-05-01 | Project Manager: Customer Solutions

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to BV Labs

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT
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Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Acidity, Alk., Conductivity, pH, Turbidity	Ammonia	Anions (Cl, F, NO2, NO3, oPO4, SO4)	DOC	Low Level Dissolved Metals with CV Hg	Low Level Total Metals with CV Hg	Cyanide (Total) Low level	Solids (TSS-LL and TDS)	TP, TN, TKN, TOC	Ion Balance (as Cations/Anions Ratio)	# of Bottles	Comments
1		MW-15-01	20/08/19	1:05	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
2		MW 15-02	20/08/19	3:40	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
3		MW 15-03	20/08/20	1:10	H_2O	N		X	X	X	X	X	X	X	X	X	X	12	Missing TSS Bottle
4		MW 15-04	20/08/20	4:30	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
5																			
6																			
7																			
8																			
9																			
10																			

Cooling Method: Ice Packs
TEMP: 10 / 13 / 13
2020-08-21
BY: Shipping Lot
RECEIVED IN WHITEHORSE

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Yvonne Cobb / Yvonne Cobb	20/08/21	16:40	[illegible]	2020/08/24	1100		☐	5/5/6	☒ Yes ☐ No

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4

INVOICE TO:		Report Information		Project Information	
Company Name	#12708 Rockhaven Resources Ltd.	Company Name		Quotation #	
Contact Name	Jillian Chown	Contact Name	Jillian Chown	P.O. #	
Address	1016-510 West Hastings Street Vancouver BC V6B 1L8	Address		Project #	
Phone	(604) 688-2568 Fax: (604) 687-2582	Phone	Fax:	Project Name	
Email	chownjpc@gmail.com	Email	chownjpc@gmail.com	Site #	
				Sampled By	

Chain Of Custody Record	Project Manager
C#617544-05-01	Customer Solutions

Regulatory Criteria

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(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Acidity, Alk, Conductivity, pH, Turbidity	Ammonia	Anions (Cl, F, NO2, NO3, oPO4, SO4)	DOC	Low Level Dissolved Metals with CV Hg	Low Level Total Metals with CV Hg	Cyanide (Total) Low level	Solids (TSS-LL and TDS)	TP, TN, TKN, TOC	Ion Balance (as Cations/Anions Ratio)	# of Bottles	Comments
1		MW-15-01	20/08/19	1:05	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
2		MW 15-02	20/08/19	3:40	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
3		MW 15-03	20/08/20	1:10	H_2O	N		X	X	X	X	X	X	X	X	X	X	12	Missing TSS Bottle
4		MW 15-04	20/08/20	4:30	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
5																			
6																			
7																			
8																			
9																			
10																			

RECEIVED IN WHITEHORSE
BY: Shawna Lee
2020-08-21

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Yvonne Cable / Yvonne Cable	20/08/21	16:40	St Mon RNC fc	2020/08/24	(100)		☐	5/5/6	☒ Yes ☐ No

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Chain Of Custody Record: C#617544-05-01

Project Manager: Customer Solutions

INVOICE TO:		Report Information		Project Information	
Company Name	#12708 Rockhaven Resources Ltd.	Company Name		Quotation #	
Contact Name	Jillian Chown	Contact Name	Jillian Chown	P.O. #	
Address	1016-510 West Hastings Street Vancouver BC V6B 1L8	Address		Project #	
Phone	(604) 688-2568 Fax: (604) 687-2582	Phone	Fax:	Project Name	
Email	chownjpc@gmail.com	Email	chownjpc@gmail.com	Site #	
				Sampled By	

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2		MW 15-02	20/08/19	3:40	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
3		MW 15-03	20/08/20	1:10	H_2O	N		X	X	X	X	X	X	X	X	X	X	12	missing TSS Bottle
4		MW 15-04	20/08/20	4:30	H_2O	N		X	X	X	X	X	X	X	X	X	X	13	
5																			
6																			
7																			
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RECEIVED IN WHITEHORSE
2020-08-21
BY:

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Yvonne Cable / Yvonne Cable	20/08/21	16:40	[illegible]	2020/08/24	(11:11)			5/5/6	Yes / No

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INVOICE TO:		Report Information		Project Information	
Company Name	#12708 Rockhaven Resources Ltd.	Company Name		Quotation #	
Contact Name	Jillian Chown	Contact Name	Jillian Chown	P.O. #	
Address	1016-510 West Hastings Street	Address		Project #	
	Vancouver BC V6B 1L8			Project Name	
Phone	(604) 688-2568 Fax: (604) 687-2582	Phone	Fax:	Site #	
Email	chownjpc@gmail.com	Email	chownjpc@gmail.com	Sampled By	

Chain Of Custody Record: C#617544-05-01 | Project Manager: Customer Solutions

Regulatory Criteria

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1		MW-15-01	20/08/19	1:05	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
2		MW 15-02	20/08/19	3:40	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
3		MW 15-03	20/08/20	1:10	H2O	N		X	X	X	X	X	X	X	X	X	X	12	Missing TSS Bottle
4		MW 15-04	20/08/20	4:30	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
5																			
6																			
7																			
8																			
9																			
10																			

Analysis Requested

Turnaround Time (TAT) Required

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Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Yvonne Cable / Yvonne Cable	20/08/21	16:40	[illegible]	2020/08/24	11:00	

Lab Use Only: Time Sensitive | Temperature (°C) on Receipt: 5/5/6 | Custody Seal Intact on Cooler? Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS, WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
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2020-08-21

Bureau Veritas Canada (2019) Inc.

Your C.O.C. #: 617544-02-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/04
Report #: R2925147
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C061322
Received: 2020/08/26, 15:55

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acidity pH 4.5 & pH 8.3 (as CaCO3)	9	N/A	2020/08/28	BBY6SOP-00037	SM 23 2310 B m
Alkalinity - Low Level	8	N/A	2020/08/28	BBY6SOP-00026	SM 23 2320 B m
Alkalinity - Low Level	1	N/A	2020/09/04	BBY6SOP-00026	SM 23 2320 B m
Low level chloride/sulphate by AC	9	N/A	2020/08/28	BBY6SOP-00011 / BBY6SOP-00017	SM23-4500-Cl/SO4-E m
Carbon (DOC) (1, 2)	9	N/A	2020/09/04	AB SOP-00087	MMCW 119 1996 m
Conductance - Low Level	9	N/A	2020/08/28	BBY6SOP-00026	SM 23 2510 B m
Fluoride - Low Level	9	N/A	2020/08/29	BBY6SOP-00048	SM 23 4500-F C m
Hardness Total (calculated as CaCO3) (3)	6	N/A	2020/09/01	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (3)	3	N/A	2020/09/02	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	9	N/A	2020/09/02	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CV	4	2020/08/28	2020/08/28	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV	4	2020/09/01	2020/09/01	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV	1	2020/09/04	2020/09/04	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV	9	2020/09/01	2020/09/01	AB SOP-00084	BCMOE BCLM Oct2013 m
Ion Balance (as Cations/Anions Ratio)	9	N/A	2020/09/02	BBY WI-00033	Auto Calc
Ion Balance	9	N/A	2020/09/02	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	9	N/A	2020/09/02	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (dissolved)	9	N/A	2020/09/02	BBY7SOP-00002	EPA 6020b R2 m
Elements by ICPMS Digested LL (total)	6	2020/08/28	2020/09/01	BBY7SOP-00003 / BBY7SOP-00002	EPA 6020b R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	N/A	2020/09/01	BBY WI-00033	Auto Calc
Na, K, Ca, Mg, S by CRC ICPMS (total)	3	N/A	2020/09/02	BBY WI-00033	Auto Calc
Elements by ICPMS Low Level (total)	3	N/A	2020/09/01	BBY7SOP-00002	EPA 6020b R2 m
Nitrogen (Total)	9	N/A	2020/09/01	BBY6SOP-00016	SM 23 4500-N C m
Ammonia-N Low Level (Preserved) (1)	9	N/A	2020/09/02	AB SOP-00007	SM 23 4500 NH3 A G m
Nitrate + Nitrite (N)	9	N/A	2020/08/27	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrite (N) by CFA	9	N/A	2020/08/27	BBY6SOP-00010	SM 23 4500-NO3- I m
Nitrogen - Nitrate (as N)	9	N/A	2020/08/28	BBY WI-00033	Auto Calc
Filter and HNO3 Preserve for Metals	9	N/A	2020/08/27	BBY7 WI-00004	SM 23 3030B m
pH @25°C (4)	9	N/A	2020/08/28	BBY6SOP-00026	SM 23 4500-H+ B m
Orthophosphate by Konelab (low level)	9	N/A	2020/08/28	BBY6SOP-00013	SM 23 4500-P E m

Your C.O.C. #: 617544-02-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/04
Report #: R2925147
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C061322
Received: 2020/08/26, 15:55

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Cyanide (Total) Low level (1)	9	2020/08/28	2020/08/31	CAL SOP-00270	SM 23 4500-CN m
Total Dissolved Solids (Filt. Residue)	3	2020/08/31	2020/09/02	BBY6SOP-00033	SM 23 2540 C m
Total Dissolved Solids (Filt. Residue)	5	2020/09/01	2020/09/02	BBY6SOP-00033	SM 23 2540 C m
Total Dissolved Solids (Filt. Residue)	1	2020/09/01	2020/09/03	BBY6SOP-00033	SM 23 2540 C m
TKN (Calc. TN, N/N) total	9	N/A	2020/09/01	BBY WI-00033	Auto Calc
Carbon (Total Organic) (1, 5)	4	N/A	2020/09/02	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 5)	5	N/A	2020/09/03	AB SOP-00087	MMCW 119 1996 m
Total Phosphorus (1)	9	2020/09/02	2020/09/03	AB SOP-00024	SM 23 4500-P A,B,F m
Total Suspended Solids (NFR)	3	2020/08/31	2020/09/01	BBY6SOP-00034	SM 23 2540 D m
Total Suspended Solids (NFR)	6	2020/09/01	2020/09/02	BBY6SOP-00034	SM 23 2540 D m
Turbidity	9	N/A	2020/08/27	BBY6SOP-00027	SM 23 2130 B m

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by BV Labs, unless otherwise agreed in writing. BV Labs is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by BV Labs, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by BV Labs Calgary Environmental
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data

Your C.O.C. #: 617544-02-01

Attention: Jillian Chown

Rockhaven Resources Ltd.
1016-510 West Hastings Street
Vancouver, BC
CANADA V6B 1L8

Report Date: 2020/09/04
Report #: R2925147
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C061322
Received: 2020/08/26, 15:55

quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas Laboratories endeavours to analyze samples as soon as possible after receipt.
(5) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key



Shanaz Akbar
Project Solutions Representative
08 Sep 2020 16:18:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Solutions, Western Canada Customer Experience Team
Email: customersolutionswest@bvlabs.com
Phone# (604) 734 7276

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BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		YI5252	YI5253		YI5254		
Sampling Date		2020/08/24 18:17	2020/08/24 21:10		2020/08/24 16:44		
COC Number		617544-02-01	617544-02-01		617544-02-01		
	UNITS	**KLAZA-1**	**KLAZA-3**	**QC Batch**	**KLAZA-12**	**RDL**	**QC Batch**
Calculated Parameters							
Filter and HNO3 Preservation	N/A	FIELD	FIELD	ONSITE	FIELD		ONSITE
Ion Balance	N/A	0.92	1.0	9976774	1.1	0.010	9976774
Ion Balance (% Difference)	%	3.5	2.4	9976781	3.8	N/A	9976781
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.119	0.231	9977693	0.190	0.020	9977693
Misc. Inorganics							
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.0020	<0.0020	9979063	<0.0020	0.0020	9979063
Fluoride (F)	mg/L	0.027	0.033	9979856	0.028	0.010	9979856
Dissolved Organic Carbon (C)	mg/L	2.1	6.2	9986967	2.9	0.50	9986967
pH	pH	6.91	6.81	9979468	6.94	N/A	9979468
Acidity (pH 4.5)	mg/L	<1.0	<1.0	9979151	<1.0	1.0	9979164
Alkalinity (Total as CaCO3)	mg/L	29.9	23.8	9979465	39.1	0.50	9979465
Total Organic Carbon (C)	mg/L	1.7	5.1	9985079	3.2	0.50	9985485
Acidity (pH 8.3)	mg/L	<1.0	<1.0	9979151	<1.0	1.0	9979164
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	9979465	<0.50	0.50	9979465
Bicarbonate (HCO3)	mg/L	36.4	29.0	9979465	47.6	0.50	9979465
Carbonate (CO3)	mg/L	<0.50	<0.50	9979465	<0.50	0.50	9979465
Hydroxide (OH)	mg/L	<0.50	<0.50	9979465	<0.50	0.50	9979465
Total Dissolved Solids	mg/L	62	46	9982043	70	10	9982043
Total Suspended Solids	mg/L	4.8	<1.0	9981499	2.4	1.0	9981465
Anions							
Orthophosphate (P)	mg/L	<0.0010	0.0010	9979451	<0.0010	0.0010	9979451
Dissolved Chloride (Cl)	mg/L	<0.50	0.65	9979267	<0.50	0.50	9979267
Dissolved Sulphate (SO4)	mg/L	1.6	<0.50	9979267	1.2	0.50	9979267
Nutrients							
Total Phosphorus (P)	mg/L	0.0069	<0.0030	9984811	<0.0030	0.0030	9984811
Total Ammonia (N)	mg/L	<0.0050	<0.0050	9984776	<0.0050	0.0050	9984776
Total Nitrogen (N)	mg/L	0.235	0.283	9982868	0.365	0.020	9982868
Physical Properties							
Conductivity	uS/cm	57.6	47.8	9979469	80.0	1.0	9979469
Physical Properties							
Turbidity	NTU	0.19	0.31	9977694	0.12	0.10	9977694

RDL = Reportable Detection Limit
N/A = Not Applicable

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RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		YI5255			YI5256		YI5257		
Sampling Date		2020/08/25 21:50			2020/08/25 15:00		2020/08/25 19:00		
COC Number		617544-02-01			617544-02-01		617544-02-01		
	UNITS	KLAZA-2	RDL	QC Batch	KLAZA-4	QC Batch	KLAZA-5	RDL	QC Batch
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD		ONSITE	FIELD	ONSITE	FIELD		ONSITE
Ion Balance	N/A	0.95	0.010	9976774	1.0	9976774	1.3	0.010	9976774
Ion Balance (% Difference)	%	2.5	N/A	9976781	0.69	9976781	12	N/A	9976781
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.307	0.020	9977693	0.273	9977693	0.215	0.020	9977693
Misc. Inorganics									
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.0020	0.0020	9979063	<0.0020	9979063	<0.0020	0.0020	9979063
Fluoride (F)	mg/L	0.081	0.010	9980022	0.035 (1)	9980022	0.027	0.010	9980022
Dissolved Organic Carbon (C)	mg/L	7.2	0.50	9986967	7.9	9986967	5.7	0.50	9986967
pH	pH	6.81	N/A	9979468	6.78	9979468	6.64	N/A	9979468
Acidity (pH 4.5)	mg/L	<1.0	1.0	9979151	<1.0	9979164	<1.0	1.0	9979151
Alkalinity (Total as CaCO3)	mg/L	30.1	0.50	9979465	27.5	9979465	16.1	0.50	9988069
Total Organic Carbon (C)	mg/L	7.3	0.50	9985485	8.4	9985485	5.8	0.50	9985485
Acidity (pH 8.3)	mg/L	<1.0	1.0	9979151	<1.0	9979164	<1.0	1.0	9979151
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	9979465	<0.50	9979465	<0.50	0.50	9988069
Bicarbonate (HCO3)	mg/L	36.7	0.50	9979465	33.5	9979465	19.6	0.50	9988069
Carbonate (CO3)	mg/L	<0.50	0.50	9979465	<0.50	9979465	<0.50	0.50	9988069
Hydroxide (OH)	mg/L	<0.50	0.50	9979465	<0.50	9979465	<0.50	0.50	9988069
Total Dissolved Solids	mg/L	130	10	9982043	64	9982043	42	10	9982043
Total Suspended Solids	mg/L	460 (2)	2.5	9982915	1.6	9982874	47	1.0	9982915
Anions									
Orthophosphate (P)	mg/L	0.0014	0.0010	9979451	<0.0010	9979451	<0.0010	0.0010	9979451
Dissolved Chloride (Cl)	mg/L	0.90	0.50	9979267	0.79	9979267	0.60	0.50	9979267
Dissolved Sulphate (SO4)	mg/L	38	0.50	9979267	9.2	9979267	2.5	0.50	9979267
Nutrients									
Total Phosphorus (P)	mg/L	0.16	0.0030	9984811	0.0052	9984811	0.011	0.0030	9984811
Total Ammonia (N)	mg/L	0.0096	0.0050	9984776	<0.0050	9984776	<0.0050	0.0050	9984776
Total Nitrogen (N)	mg/L	0.361	0.020	9982868	0.273	9982868	0.262	0.020	9982868
Physical Properties									
Conductivity	uS/cm	137	1.0	9979469	75.3	9979469	46.5	1.0	9979469
Physical Properties									
Turbidity	NTU	83	0.10	9977694	0.84	9977694	3.7	0.10	9977694

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to suspected matrix interference.
(2) RDL raised due to high concentration of solids in the sample.

Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

BV Labs ID		YI5258		YI5259		YI5260		
Sampling Date		2020/08/25 13:45		2020/08/25 11:45		2020/08/25 17:40		
COC Number		617544-02-01		617544-02-01		617544-02-01		
	UNITS	KLAZA-6	QC Batch	KLAZA-9	QC Batch	KLAZA-10	RDL	QC Batch
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD		ONSITE
Ion Balance	N/A	1.0	9976774	0.93	9976774	NC	0.010	9976774
Ion Balance (% Difference)	%	0.39	9976781	3.5	9976781	32	N/A	9976781
Total Total Kjeldahl Nitrogen (Calc)	mg/L	0.159	9977693	0.323	9977693	0.321	0.020	9977693
Misc. Inorganics								
Strong Acid Dissoc. Cyanide (CN)	mg/L	<0.0020	9979063	<0.0020	9979063	<0.0020	0.0020	9979063
Fluoride (F)	mg/L	0.044	9980022	0.032	9980022	0.032	0.010	9980022
Dissolved Organic Carbon (C)	mg/L	4.4	9986967	6.6	9986967	8.9	0.50	9986967
pH	pH	7.30	9979468	7.36	9979468	6.26	N/A	9979468
Acidity (pH 4.5)	mg/L	<1.0	9979151	<1.0	9979151	<1.0	1.0	9979151
Alkalinity (Total as CaCO3)	mg/L	81.8	9979465	30.3	9979465	4.65	0.50	9979465
Total Organic Carbon (C)	mg/L	3.7	9985079	6.4	9985485	8.4	0.50	9985079
Acidity (pH 8.3)	mg/L	<1.0	9979151	<1.0	9979151	1.6	1.0	9979151
Alkalinity (PP as CaCO3)	mg/L	<0.50	9979465	<0.50	9979465	<0.50	0.50	9979465
Bicarbonate (HCO3)	mg/L	99.7	9979465	37.0	9979465	5.67	0.50	9979465
Carbonate (CO3)	mg/L	<0.50	9979465	<0.50	9979465	<0.50	0.50	9979465
Hydroxide (OH)	mg/L	<0.50	9979465	<0.50	9979465	<0.50	0.50	9979465
Total Dissolved Solids	mg/L	120	9982043	60	9982043	30	10	9983587
Total Suspended Solids	mg/L	2.8	9982874	86	9982915	26	1.0	9982874
Anions								
Orthophosphate (P)	mg/L	<0.0010	9979451	<0.0010	9979451	<0.0010	0.0010	9979451
Dissolved Chloride (Cl)	mg/L	0.64	9979267	0.73	9979267	0.85	0.50	9979267
Dissolved Sulphate (SO4)	mg/L	12	9979267	2.2	9979267	0.53	0.50	9979267
Nutrients								
Total Phosphorus (P)	mg/L	0.0033	9984811	0.046	9984811	0.0094	0.0030	9984811
Total Ammonia (N)	mg/L	<0.0050	9984776	<0.0050	9984776	<0.0050	0.0050	9984776
Total Nitrogen (N)	mg/L	0.257	9982868	0.359	9982868	0.321	0.020	9982868
Physical Properties								
Conductivity	uS/cm	180	9979469	60.9	9979469	22.2	1.0	9979469
Physical Properties								
Turbidity	NTU	3.6	9977694	18	9977694	12	0.10	9977694

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YI5252	YI5253	YI5254	YI5255		YI5256		
Sampling Date		2020/08/24 18:17	2020/08/24 21:10	2020/08/24 16:44	2020/08/25 21:50		2020/08/25 15:00		
COC Number		617544-02-01	617544-02-01	617544-02-01	617544-02-01		617544-02-01		
	UNITS	**KLAZA-1**	**KLAZA-3**	**KLAZA-12**	**KLAZA-2**	**QC Batch**	**KLAZA-4**	**RDL**	**QC Batch**
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	26.4	21.9	40.4	61.6	9977555	34.3	0.50	9977555
Elements									
Dissolved Mercury (Hg)	ug/L	0.0052	0.0034	0.0021	0.0049	9978599	0.0072	0.0019	9982576
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	21.1	80.3	17.9	69.6	9978318	46.1	0.50	9978318
Dissolved Antimony (Sb)	ug/L	0.069	0.052	0.098	0.275	9978318	0.141	0.020	9978318
Dissolved Arsenic (As)	ug/L	0.073	0.101	0.818	0.620	9978318	0.558	0.020	9978318
Dissolved Barium (Ba)	ug/L	24.6	25.6	61.9	36.3	9978318	66.4	0.020	9978318
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	<0.010	0.019	9978318	<0.010	0.010	9978318
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	<0.0050	0.0055	9978318	<0.0050	0.0050	9978318
Dissolved Boron (B)	ug/L	<10	<10	<10	<10	9978318	<10	10	9978318
Dissolved Cadmium (Cd)	ug/L	0.0051	0.0076	0.0202	0.163	9978318	0.0168	0.0050	9978318
Dissolved Chromium (Cr)	ug/L	<0.10	0.13	<0.10	0.12	9978318	<0.10	0.10	9978318
Dissolved Cobalt (Co)	ug/L	0.0159	0.0280	0.0172	0.815	9978318	0.0244	0.0050	9978318
Dissolved Copper (Cu)	ug/L	0.523	0.955	0.576	14.7	9978318	132 (1)	0.050	9978318
Dissolved Iron (Fe)	ug/L	5.7	34.5	3.9	109	9978318	54.2	1.0	9978318
Dissolved Lead (Pb)	ug/L	<0.0050	<0.0050	0.0056	0.106	9978318	0.0524	0.0050	9978318
Dissolved Lithium (Li)	ug/L	<0.50	<0.50	<0.50	1.01	9978318	<0.50	0.50	9978318
Dissolved Manganese (Mn)	ug/L	0.185	0.878	0.125	47.9	9978318	3.82	0.050	9978318
Dissolved Molybdenum (Mo)	ug/L	0.089	0.082	0.176	0.658	9978318	0.268	0.050	9978318
Dissolved Nickel (Ni)	ug/L	0.049	0.257	0.086	0.800	9978318	0.240	0.020	9978318
Dissolved Phosphorus (P)	ug/L	2.3	3.7	2.5	4.5	9978318	7.3	2.0	9978318
Dissolved Selenium (Se)	ug/L	<0.040	<0.040	<0.040	0.088	9978318	<0.040	0.040	9978318
Dissolved Silicon (Si)	ug/L	4240	4820	4320	7000	9978318	5520	50	9978318
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	<0.0050	<0.0050	9978318	<0.0050	0.0050	9978318
Dissolved Strontium (Sr)	ug/L	59.4	55.1	54.7	163	9978318	88.4	0.050	9978318
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	<0.0020	<0.0020	9978318	<0.0020	0.0020	9978318
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	<0.20	<0.20	9978318	<0.20	0.20	9978318
Dissolved Titanium (Ti)	ug/L	<0.50	0.61	<0.50	0.53	9978318	0.55	0.50	9978318
Dissolved Uranium (U)	ug/L	0.0806	0.184	0.0870	0.265	9978318	0.0838	0.0020	9978318
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	<0.20	0.22	9978318	<0.20	0.20	9978318
Dissolved Zinc (Zn)	ug/L	0.14	0.53	1.11 (1)	5.25	9978318	82.9 (1)	0.10	9978318
Dissolved Zirconium (Zr)	ug/L	<0.10	0.17	<0.10	0.27	9978318	0.21	0.10	9978318

RDL = Reportable Detection Limit

(1) Dissolved greater than total. Reanalysis yields similar results.

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LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YI5252	YI5253	YI5254	YI5255		YI5256		
Sampling Date		2020/08/24 18:17	2020/08/24 21:10	2020/08/24 16:44	2020/08/25 21:50		2020/08/25 15:00		
COC Number		617544-02-01	617544-02-01	617544-02-01	617544-02-01		617544-02-01		
	UNITS	KLAZA-1	KLAZA-3	KLAZA-12	KLAZA-2	QC Batch	KLAZA-4	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	7.86	6.10	13.0	17.3	9976431	10.1	0.050	9976431
Dissolved Magnesium (Mg)	mg/L	1.66	1.62	1.91	4.45	9976431	2.22	0.050	9976431
Dissolved Potassium (K)	mg/L	0.193	0.190	0.244	0.561	9976431	0.335	0.050	9976431
Dissolved Sodium (Na)	mg/L	1.21	1.50	1.25	2.24	9976431	1.61	0.050	9976431
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	11.2	9976431	<3.0	3.0	9976431
RDL = Reportable Detection Limit									

Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YI5257	YI5258		YI5259		YI5260		
Sampling Date		2020/08/25 19:00	2020/08/25 13:45		2020/08/25 11:45		2020/08/25 17:40		
COC Number		617544-02-01	617544-02-01		617544-02-01		617544-02-01		
	UNITS	KLAZA-5	KLAZA-6	QC Batch	KLAZA-9	QC Batch	KLAZA-10	RDL	QC Batch
Calculated Parameters									
Dissolved Hardness (CaCO3)	mg/L	21.6	90.4	9977555	27.4	9977555	8.53	0.50	9977555
Elements									
Dissolved Mercury (Hg)	ug/L	0.0049	0.0025	9982576	0.0035	9987472	0.0090	0.0019	9982576
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	71.0	5.43	9978318	61.1	9978318	175	0.50	9978318
Dissolved Antimony (Sb)	ug/L	0.056	0.183	9978318	0.086	9978318	0.067	0.020	9978318
Dissolved Arsenic (As)	ug/L	0.149	0.681	9978318	0.280	9978318	0.390	0.020	9978318
Dissolved Barium (Ba)	ug/L	27.9	127	9978318	41.9	9978318	44.3	0.020	9978318
Dissolved Beryllium (Be)	ug/L	<0.010	<0.010	9978318	<0.010	9978318	0.014	0.010	9978318
Dissolved Bismuth (Bi)	ug/L	<0.0050	<0.0050	9978318	<0.0050	9978318	<0.0050	0.0050	9978318
Dissolved Boron (B)	ug/L	<10	<10	9978318	<10	9978318	<10	10	9978318
Dissolved Cadmium (Cd)	ug/L	0.0102	0.0241	9978318	0.0239	9978318	0.0358	0.0050	9978318
Dissolved Chromium (Cr)	ug/L	0.12	<0.10	9978318	0.14	9978318	0.14	0.10	9978318
Dissolved Cobalt (Co)	ug/L	0.0330	0.0177	9978318	0.0761	9978318	0.0381	0.0050	9978318
Dissolved Copper (Cu)	ug/L	0.951	1.32	9978318	1.17	9978318	1.73	0.050	9978318
Dissolved Iron (Fe)	ug/L	42.9	9.6	9978318	79.7	9978318	71.3	1.0	9978318
Dissolved Lead (Pb)	ug/L	0.0141	0.0260	9978318	0.0514	9978318	0.0873	0.0050	9978318
Dissolved Lithium (Li)	ug/L	<0.50	1.14	9978318	<0.50	9978318	<0.50	0.50	9978318
Dissolved Manganese (Mn)	ug/L	1.93	4.93	9978318	16.6	9978318	2.32	0.050	9978318
Dissolved Molybdenum (Mo)	ug/L	0.057	0.524	9978318	0.146	9978318	0.064	0.050	9978318
Dissolved Nickel (Ni)	ug/L	0.216	0.159	9978318	0.291	9978318	0.384	0.020	9978318
Dissolved Phosphorus (P)	ug/L	3.8	5.4	9978318	4.7	9978318	5.9	2.0	9978318
Dissolved Selenium (Se)	ug/L	<0.040	<0.040	9978318	<0.040	9978318	0.041	0.040	9978318
Dissolved Silicon (Si)	ug/L	4520	5220	9978318	4850	9978318	7040	50	9978318
Dissolved Silver (Ag)	ug/L	<0.0050	<0.0050	9978318	<0.0050	9978318	0.0076	0.0050	9978318
Dissolved Strontium (Sr)	ug/L	45.1	237	9978318	67.6	9978318	18.8	0.050	9978318
Dissolved Thallium (Tl)	ug/L	<0.0020	<0.0020	9978318	<0.0020	9978318	0.0020	0.0020	9978318
Dissolved Tin (Sn)	ug/L	<0.20	<0.20	9978318	<0.20	9978318	<0.20	0.20	9978318
Dissolved Titanium (Ti)	ug/L	0.69	<0.50	9978318	0.68	9978318	1.38	0.50	9978318
Dissolved Uranium (U)	ug/L	0.0510	1.67	9978318	0.103	9978318	0.103	0.0020	9978318
Dissolved Vanadium (V)	ug/L	<0.20	<0.20	9978318	0.23	9978318	0.21	0.20	9978318
Dissolved Zinc (Zn)	ug/L	0.76	0.43	9978318	0.94	9978318	1.38	0.10	9978318
Dissolved Zirconium (Zr)	ug/L	0.16	<0.10	9978318	0.19	9978318	0.37	0.10	9978318
Dissolved Calcium (Ca)	mg/L	6.36	26.9	9976431	7.89	9976431	2.45	0.050	9976431

RDL = Reportable Detection Limit

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LOW LEVEL DISSOLVED METALS WITH CV HG (WATER)

BV Labs ID		YI5257	YI5258		YI5259		YI5260		
Sampling Date		2020/08/25 19:00	2020/08/25 13:45		2020/08/25 11:45		2020/08/25 17:40		
COC Number		617544-02-01	617544-02-01		617544-02-01		617544-02-01		
	UNITS	KLAZA-5	KLAZA-6	QC Batch	KLAZA-9	QC Batch	KLAZA-10	RDL	QC Batch
Dissolved Magnesium (Mg)	mg/L	1.38	5.61	9976431	1.86	9976431	0.585	0.050	9976431
Dissolved Potassium (K)	mg/L	0.223	0.585	9976431	0.356	9976431	0.098	0.050	9976431
Dissolved Sodium (Na)	mg/L	1.24	2.30	9976431	1.41	9976431	1.19	0.050	9976431
Dissolved Sulphur (S)	mg/L	<3.0	3.2	9976431	<3.0	9976431	<3.0	3.0	9976431
RDL = Reportable Detection Limit									

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5252			YI5253			YI5254		
Sampling Date		2020/08/24 18:17			2020/08/24 21:10			2020/08/24 16:44		
COC Number		617544-02-01			617544-02-01			617544-02-01		
	UNITS	KLAZA-1	RDL	QC Batch	KLAZA-3	RDL	QC Batch	KLAZA-12	RDL	QC Batch
Calculated Parameters										
Total Hardness (CaCO3)	mg/L	26.6	0.50	9976622	22.3	0.50	9976622	40.5	0.50	9976622
Elements										
Total Mercury (Hg)	ug/L	0.0060	0.0019	9982563	0.0037	0.0019	9982563	0.0040	0.0019	9982563
Total Metals by ICPMS										
Total Aluminum (Al)	ug/L	32.0	0.50	9981233	90.6	3.0	9978302	24.4	0.50	9981233
Total Antimony (Sb)	ug/L	0.070	0.020	9981233	0.050	0.020	9978302	0.092	0.020	9981233
Total Arsenic (As)	ug/L	0.073	0.020	9981233	0.123	0.020	9978302	0.805	0.020	9981233
Total Barium (Ba)	ug/L	25.7	0.020	9981233	25.8	0.050	9978302	63.5	0.020	9981233
Total Beryllium (Be)	ug/L	<0.010	0.010	9981233	<0.010	0.010	9978302	<0.010	0.010	9981233
Total Bismuth (Bi)	ug/L	<0.0050	0.0050	9981233	<0.010	0.010	9978302	<0.0050	0.0050	9981233
Total Boron (B)	ug/L	<10	10	9981233	<10	10	9978302	<10	10	9981233
Total Cadmium (Cd)	ug/L	0.0068	0.0050	9981233	0.0061	0.0050	9978302	0.0149	0.0050	9981233
Total Chromium (Cr)	ug/L	0.11	0.10	9981233	0.17	0.10	9978302	<0.10	0.10	9981233
Total Cobalt (Co)	ug/L	0.0239	0.0050	9981233	0.035	0.010	9978302	0.0185	0.0050	9981233
Total Copper (Cu)	ug/L	0.585	0.050	9981233	0.97	0.10	9978302	0.605	0.050	9981233
Total Iron (Fe)	ug/L	16.6	1.0	9981233	44.1	5.0	9978302	12.0	1.0	9981233
Total Lead (Pb)	ug/L	0.0151	0.0050	9981233	<0.020	0.020	9978302	0.0201	0.0050	9981233
Total Lithium (Li)	ug/L	<0.50	0.50	9981233	<0.50	0.50	9978302	<0.50	0.50	9981233
Total Manganese (Mn)	ug/L	0.527	0.050	9981233	1.49	0.10	9978302	0.337	0.050	9981233
Total Molybdenum (Mo)	ug/L	0.067	0.050	9981233	0.088	0.050	9978302	0.182	0.050	9981233
Total Nickel (Ni)	ug/L	0.080	0.020	9981233	0.31	0.10	9978302	0.082	0.020	9981233
Total Phosphorus (P)	ug/L	4.4	2.0	9981233	6.0	5.0	9978302	3.9	2.0	9981233
Total Selenium (Se)	ug/L	<0.040	0.040	9981233	<0.040	0.040	9978302	<0.040	0.040	9981233
Total Silicon (Si)	ug/L	4010	50	9981233	4810	50	9978302	4060	50	9981233
Total Silver (Ag)	ug/L	<0.0050	0.0050	9981233	<0.010	0.010	9978302	0.0055	0.0050	9981233
Total Strontium (Sr)	ug/L	59.5	0.050	9981233	55.0	0.050	9978302	56.4	0.050	9981233
Total Thallium (Tl)	ug/L	0.0030	0.0020	9981233	<0.0020	0.0020	9978302	0.0035	0.0020	9981233
Total Tin (Sn)	ug/L	<0.20	0.20	9981233	<0.20	0.20	9978302	<0.20	0.20	9981233
Total Titanium (Ti)	ug/L	<0.50	0.50	9981233	<2.0	2.0	9978302	<0.50	0.50	9981233
Total Uranium (U)	ug/L	0.0830	0.0020	9981233	0.189	0.0050	9978302	0.0849	0.0020	9981233
Total Vanadium (V)	ug/L	<0.20	0.20	9981233	<0.20	0.20	9978302	<0.20	0.20	9981233
Total Zinc (Zn)	ug/L	0.24	0.10	9981233	<1.0	1.0	9978302	0.53	0.10	9981233
Total Zirconium (Zr)	ug/L	<0.10	0.10	9981233	0.12	0.10	9978302	<0.10	0.10	9981233
Total Calcium (Ca)	mg/L	7.87	0.050	9976792	6.19	0.25	9976792	13.0	0.050	9976792
RDL = Reportable Detection Limit										

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5252			YI5253			YI5254		
Sampling Date		2020/08/24 18:17			2020/08/24 21:10			2020/08/24 16:44		
COC Number		617544-02-01			617544-02-01			617544-02-01		
	UNITS	KLAZA-1	RDL	QC Batch	KLAZA-3	RDL	QC Batch	KLAZA-12	RDL	QC Batch
Total Magnesium (Mg)	mg/L	1.70	0.050	9976792	1.65	0.25	9976792	1.92	0.050	9976792
Total Potassium (K)	mg/L	0.216	0.050	9976792	<0.25	0.25	9976792	0.282	0.050	9976792
Total Sodium (Na)	mg/L	1.26	0.050	9976792	1.56	0.25	9976792	1.28	0.050	9976792
Total Sulphur (S)	mg/L	<3.0	3.0	9976792	<3.0	3.0	9976792	<3.0	3.0	9976792
Total Sulphur (S)	ug/L				<600	600	9978302			
RDL = Reportable Detection Limit										

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5255	YI5256	YI5257			YI5258		
Sampling Date		2020/08/25 21:50	2020/08/25 15:00	2020/08/25 19:00			2020/08/25 13:45		
COC Number		617544-02-01	617544-02-01	617544-02-01			617544-02-01		
	UNITS	KLAZA-2	KLAZA-4	KLAZA-5	RDL	QC Batch	KLAZA-6	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	70.3	34.0	21.1	0.50	9976622	89.5	0.50	9976622
Elements									
Total Mercury (Hg)	ug/L	0.0024	0.0100	0.0103	0.0019	9982563	<0.0019	0.0019	9982563
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	4420	68.1	271	3.0	9978302	150	0.50	9981233
Total Antimony (Sb)	ug/L	1.35	0.131	0.080	0.020	9978302	0.205	0.020	9981233
Total Arsenic (As)	ug/L	11.0	0.693	0.276	0.020	9978302	1.08	0.020	9981233
Total Barium (Ba)	ug/L	117	64.7	30.4	0.050	9978302	131	0.020	9981233
Total Beryllium (Be)	ug/L	0.218	<0.010	0.016	0.010	9978302	0.011	0.010	9981233
Total Bismuth (Bi)	ug/L	0.764	<0.010	<0.010	0.010	9978302	0.0120	0.0050	9981233
Total Boron (B)	ug/L	<10	<10	<10	10	9978302	<10	10	9981233
Total Cadmium (Cd)	ug/L	0.684	0.0135	0.0181	0.0050	9978302	0.0246	0.0050	9981233
Total Chromium (Cr)	ug/L	4.78	0.13	0.73	0.10	9978302	0.22	0.10	9981233
Total Cobalt (Co)	ug/L	4.40	0.040	0.114	0.010	9978302	0.103	0.0050	9981233
Total Copper (Cu)	ug/L	86.4	1.84	1.25	0.10	9978302	1.58	0.050	9981233
Total Iron (Fe)	ug/L	8340	104	296	5.0	9978302	217	1.0	9981233
Total Lead (Pb)	ug/L	15.4	0.109	0.194	0.020	9978302	0.710	0.0050	9981233
Total Lithium (Li)	ug/L	3.53	<0.50	<0.50	0.50	9978302	1.14	0.50	9981233
Total Manganese (Mn)	ug/L	130	9.25	8.47	0.10	9978302	11.1	0.050	9981233
Total Molybdenum (Mo)	ug/L	2.04	0.270	0.081	0.050	9978302	0.466	0.050	9981233
Total Nickel (Ni)	ug/L	4.26	0.29	0.37	0.10	9978302	0.215	0.020	9981233
Total Phosphorus (P)	ug/L	215	7.1	16.4	5.0	9978302	7.2	2.0	9981233
Total Selenium (Se)	ug/L	0.177	<0.040	<0.040	0.040	9978302	<0.040	0.040	9981233
Total Silicon (Si)	ug/L	12700	5430	4400	50	9978302	5040	50	9981233
Total Silver (Ag)	ug/L	0.318	<0.010	<0.010	0.010	9978302	0.0104	0.0050	9981233
Total Strontium (Sr)	ug/L	187	86.9	43.5	0.050	9978302	243	0.050	9981233
Total Thallium (Tl)	ug/L	0.101	<0.0020	0.0033	0.0020	9978302	0.0058	0.0020	9981233
Total Tin (Sn)	ug/L	<0.20	<0.20	<0.20	0.20	9978302	<0.20	0.20	9981233
Total Titanium (Ti)	ug/L	174	<2.0	9.4	2.0	9978302	6.74	0.50	9981233
Total Uranium (U)	ug/L	1.70	0.0857	0.0772	0.0050	9978302	1.68	0.0020	9981233
Total Vanadium (V)	ug/L	13.9	<0.20	0.73	0.20	9978302	0.57	0.20	9981233
Total Zinc (Zn)	ug/L	53.5	1.2	1.7	1.0	9978302	1.67	0.10	9981233
Total Zirconium (Zr)	ug/L	0.92	0.50	0.11	0.10	9978302	0.15	0.10	9981233
Total Calcium (Ca)	mg/L	18.4	10.1	6.20	0.25	9976792	26.7	0.050	9976792
RDL = Reportable Detection Limit									

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5255	YI5256	YI5257			YI5258		
Sampling Date		2020/08/25 21:50	2020/08/25 15:00	2020/08/25 19:00			2020/08/25 13:45		
COC Number		617544-02-01	617544-02-01	617544-02-01			617544-02-01		
	UNITS	KLAZA-2	KLAZA-4	KLAZA-5	RDL	QC Batch	KLAZA-6	RDL	QC Batch
Total Magnesium (Mg)	mg/L	5.92	2.16	1.38	0.25	9976792	5.55	0.050	9976792
Total Potassium (K)	mg/L	1.32	0.34	<0.25	0.25	9976792	0.644	0.050	9976792
Total Sodium (Na)	mg/L	2.39	1.57	1.22	0.25	9976792	2.32	0.050	9976792
Total Sulphur (S)	mg/L	10.4	<3.0	<3.0	3.0	9976792	3.6	3.0	9976792
Total Sulphur (S)	ug/L	10400	2850	778	600	9978302			
RDL = Reportable Detection Limit									

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5259	YI5260		
Sampling Date		2020/08/25 11:45	2020/08/25 17:40		
COC Number		617544-02-01	617544-02-01		
	UNITS	KLAZA-9	KLAZA-10	RDL	QC Batch
Calculated Parameters					
Total Hardness (CaCO3)	mg/L	29.9	9.15	0.50	9976622
Elements					
Total Mercury (Hg)	ug/L	0.0031	0.0086	0.0019	9982563
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	1250	549	3.0	9978302
Total Antimony (Sb)	ug/L	0.194	0.109	0.020	9978302
Total Arsenic (As)	ug/L	1.90	1.33	0.020	9978302
Total Barium (Ba)	ug/L	68.9	57.5	0.050	9978302
Total Beryllium (Be)	ug/L	0.052	0.032	0.010	9978302
Total Bismuth (Bi)	ug/L	0.034	0.013	0.010	9978302
Total Boron (B)	ug/L	<10	<10	10	9978302
Total Cadmium (Cd)	ug/L	0.0904	0.0393	0.0050	9978302
Total Chromium (Cr)	ug/L	1.60	0.46	0.10	9978302
Total Cobalt (Co)	ug/L	0.684	0.157	0.010	9978302
Total Copper (Cu)	ug/L	3.16	2.18	0.10	9978302
Total Iron (Fe)	ug/L	1730	504	5.0	9978302
Total Lead (Pb)	ug/L	2.62	0.953	0.020	9978302
Total Lithium (Li)	ug/L	0.96	0.61	0.50	9978302
Total Manganese (Mn)	ug/L	81.4	10.8	0.10	9978302
Total Molybdenum (Mo)	ug/L	0.212	0.078	0.050	9978302
Total Nickel (Ni)	ug/L	1.16	0.56	0.10	9978302
Total Phosphorus (P)	ug/L	61.7	17.3	5.0	9978302
Total Selenium (Se)	ug/L	0.052	<0.040	0.040	9978302
Total Silicon (Si)	ug/L	6270	7600	50	9978302
Total Silver (Ag)	ug/L	0.022	0.025	0.010	9978302
Total Strontium (Sr)	ug/L	70.3	19.9	0.050	9978302
Total Thallium (Tl)	ug/L	0.0189	0.0135	0.0020	9978302
Total Tin (Sn)	ug/L	<0.20	<0.20	0.20	9978302
Total Titanium (Ti)	ug/L	43.3	17.1	2.0	9978302
Total Uranium (U)	ug/L	0.380	0.182	0.0050	9978302
Total Vanadium (V)	ug/L	3.61	0.96	0.20	9978302
Total Zinc (Zn)	ug/L	8.9	3.1	1.0	9978302
Total Zirconium (Zr)	ug/L	0.20	0.24	0.10	9978302
Total Calcium (Ca)	mg/L	8.28	2.57	0.25	9976792
RDL = Reportable Detection Limit					

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LOW LEVEL TOTAL METALS WITH CV HG (WATER)

BV Labs ID		YI5259	YI5260		
Sampling Date		2020/08/25 11:45	2020/08/25 17:40		
COC Number		617544-02-01	617544-02-01		
	UNITS	KLAZA-9	KLAZA-10	RDL	QC Batch
Total Magnesium (Mg)	mg/L	2.23	0.66	0.25	9976792
Total Potassium (K)	mg/L	0.53	<0.25	0.25	9976792
Total Sodium (Na)	mg/L	1.49	1.23	0.25	9976792
Total Sulphur (S)	mg/L	<3.0	<3.0	3.0	9976792
Total Sulphur (S)	ug/L	1250	703	600	9978302
RDL = Reportable Detection Limit					

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NITRITE & NITRATE IN WATER (WATER)

BV Labs ID		YI5252	YI5253	YI5254	YI5255	YI5256	YI5257		
Sampling Date		2020/08/24 18:17	2020/08/24 21:10	2020/08/24 16:44	2020/08/25 21:50	2020/08/25 15:00	2020/08/25 19:00		
COC Number		617544-02-01	617544-02-01	617544-02-01	617544-02-01	617544-02-01	617544-02-01		
	UNITS	KLAZA-1	KLAZA-3	KLAZA-12	KLAZA-2	KLAZA-4	KLAZA-5	RDL	QC Batch
ANIONS									
Nitrite (N)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9977681
Calculated Parameters									
Nitrate (N)	mg/L	0.116	0.052	0.174	0.055	<0.020	0.047	0.020	9976624
Nutrients									
Nitrate plus Nitrite (N)	mg/L	0.116	0.052	0.174	0.055	<0.020	0.047	0.020	9977680
RDL = Reportable Detection Limit									

BV Labs ID		YI5258	YI5259	YI5260		
Sampling Date		2020/08/25 13:45	2020/08/25 11:45	2020/08/25 17:40		
COC Number		617544-02-01	617544-02-01	617544-02-01		
	UNITS	KLAZA-6	KLAZA-9	KLAZA-10	RDL	QC Batch
ANIONS						
Nitrite (N)	mg/L	<0.0050	<0.0050	<0.0050	0.0050	9977681
Calculated Parameters						
Nitrate (N)	mg/L	0.098	0.036	<0.020	0.020	9976624
Nutrients						
Nitrate plus Nitrite (N)	mg/L	0.098	0.036	<0.020	0.020	9977680
RDL = Reportable Detection Limit						

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.0°C
Package 2	8.0°C

Sample YI5252 [KLAZA-1] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample YI5253 [KLAZA-3] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample YI5254 [KLAZA-12] : Sample was analyzed past method specified hold time for Orthophosphate by Konelab (low level). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.

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BV Labs Job #: C061322
Report Date: 2020/09/04

QUALITY ASSURANCE REPORT

Rockhaven Resources Ltd.

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9977680	Nitrate plus Nitrite (N)	2020/08/27	101	80 - 120	105	80 - 120	<0.020	mg/L	2.1	25		
9977681	Nitrite (N)	2020/08/27	51 (1)	80 - 120	105	80 - 120	<0.0050	mg/L	NC	20		
9977694	Turbidity	2020/08/27			101	80 - 120	<0.10	NTU	8.7	20		
9978302	Total Aluminum (Al)	2020/09/01	104	80 - 120	104	80 - 120	<3.0	ug/L	0.085	20		
9978302	Total Antimony (Sb)	2020/09/01	103	80 - 120	102	80 - 120	<0.020	ug/L	3.3	20		
9978302	Total Arsenic (As)	2020/09/01	105	80 - 120	104	80 - 120	<0.020	ug/L	11	20		
9978302	Total Barium (Ba)	2020/09/01	103	80 - 120	105	80 - 120	<0.050	ug/L	0.17	20		
9978302	Total Beryllium (Be)	2020/09/01	105	80 - 120	106	80 - 120	<0.010	ug/L	NC	20		
9978302	Total Bismuth (Bi)	2020/09/01	99	80 - 120	99	80 - 120	<0.010	ug/L	NC	20		
9978302	Total Boron (B)	2020/09/01	105	80 - 120	105	80 - 120	<10	ug/L	NC	20		
9978302	Total Cadmium (Cd)	2020/09/01	106	80 - 120	105	80 - 120	<0.0050	ug/L	6.3	20		
9978302	Total Chromium (Cr)	2020/09/01	103	80 - 120	102	80 - 120	<0.10	ug/L	3.4	20		
9978302	Total Cobalt (Co)	2020/09/01	100	80 - 120	99	80 - 120	<0.010	ug/L	2.6	20		
9978302	Total Copper (Cu)	2020/09/01	103	80 - 120	102	80 - 120	<0.10	ug/L	1.1	20		
9978302	Total Iron (Fe)	2020/09/01	105	80 - 120	104	80 - 120	<5.0	ug/L	0.64	20		
9978302	Total Lead (Pb)	2020/09/01	105	80 - 120	104	80 - 120	<0.020	ug/L	NC	20		
9978302	Total Lithium (Li)	2020/09/01	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
9978302	Total Manganese (Mn)	2020/09/01	106	80 - 120	104	80 - 120	<0.10	ug/L	4.3	20		
9978302	Total Molybdenum (Mo)	2020/09/01	106	80 - 120	104	80 - 120	<0.050	ug/L	6.2	20		
9978302	Total Nickel (Ni)	2020/09/01	104	80 - 120	103	80 - 120	<0.10	ug/L	0.45	20		
9978302	Total Phosphorus (P)	2020/09/01	104	80 - 120	104	80 - 120	<5.0	ug/L	1.5	20		
9978302	Total Selenium (Se)	2020/09/01	107	80 - 120	105	80 - 120	<0.040	ug/L	NC	20		
9978302	Total Silicon (Si)	2020/09/01	96	80 - 120	106	80 - 120	<50	ug/L	0.39	20		
9978302	Total Silver (Ag)	2020/09/01	108	80 - 120	102	80 - 120	<0.010	ug/L	NC	20		
9978302	Total Strontium (Sr)	2020/09/01	NC	80 - 120	106	80 - 120	<0.050	ug/L	1.5	20		
9978302	Total Sulphur (S)	2020/09/01	104	80 - 120	103	80 - 120	<600	ug/L	NC	20		
9978302	Total Thallium (Tl)	2020/09/01	104	80 - 120	102	80 - 120	0.0032, RDL=0.0020 (2)	ug/L	NC	20		
9978302	Total Tin (Sn)	2020/09/01	101	80 - 120	100	80 - 120	<0.20	ug/L	NC	20		
9978302	Total Titanium (Ti)	2020/09/01	105	80 - 120	106	80 - 120	<2.0	ug/L	NC	20		
9978302	Total Uranium (U)	2020/09/01	110	80 - 120	109	80 - 120	<0.0050	ug/L	0.58	20		
9978302	Total Vanadium (V)	2020/09/01	106	80 - 120	103	80 - 120	<0.20	ug/L	NC	20		
9978302	Total Zinc (Zn)	2020/09/01	105	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9978302	Total Zirconium (Zr)	2020/09/01	106	80 - 120	101	80 - 120	<0.10	ug/L	5.3	20		
9978318	Dissolved Aluminum (Al)	2020/09/02	99	80 - 120	105	80 - 120	<0.50	ug/L	0.12	20		
9978318	Dissolved Antimony (Sb)	2020/09/02	96	80 - 120	101	80 - 120	<0.020	ug/L	0.60	20		
9978318	Dissolved Arsenic (As)	2020/09/02	100	80 - 120	102	80 - 120	<0.020	ug/L	0.66	20		
9978318	Dissolved Barium (Ba)	2020/09/02	95	80 - 120	105	80 - 120	<0.020	ug/L	0.49	20		
9978318	Dissolved Beryllium (Be)	2020/09/02	105	80 - 120	104	80 - 120	<0.010	ug/L	9.5	20		
9978318	Dissolved Bismuth (Bi)	2020/09/02	95	80 - 120	94	80 - 120	<0.0050	ug/L	NC	20		
9978318	Dissolved Boron (B)	2020/09/02	107	80 - 120	101	80 - 120	<10	ug/L	NC	20		
9978318	Dissolved Cadmium (Cd)	2020/09/02	100	80 - 120	104	80 - 120	<0.0050	ug/L	16	20		
9978318	Dissolved Chromium (Cr)	2020/09/02	100	80 - 120	103	80 - 120	<0.10	ug/L	5.4	20		
9978318	Dissolved Cobalt (Co)	2020/09/02	97	80 - 120	100	80 - 120	<0.0050	ug/L	8.8	20		
9978318	Dissolved Copper (Cu)	2020/09/02	98	80 - 120	101	80 - 120	<0.050	ug/L	1.5	20		
9978318	Dissolved Iron (Fe)	2020/09/02	99	80 - 120	102	80 - 120	<1.0	ug/L	3.1	20		
9978318	Dissolved Lead (Pb)	2020/09/02	99	80 - 120	103	80 - 120	<0.0050	ug/L	6.1	20		
9978318	Dissolved Lithium (Li)	2020/09/02	102	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
9978318	Dissolved Manganese (Mn)	2020/09/02	100	80 - 120	104	80 - 120	<0.050	ug/L	0.86	20		
9978318	Dissolved Molybdenum (Mo)	2020/09/02	99	80 - 120	100	80 - 120	<0.050	ug/L	1.4	20		
9978318	Dissolved Nickel (Ni)	2020/09/02	98	80 - 120	102	80 - 120	<0.020	ug/L	7.3	20		
9978318	Dissolved Phosphorus (P)	2020/09/02	100	80 - 120	105	80 - 120	<2.0	ug/L	12	20		
9978318	Dissolved Selenium (Se)	2020/09/02	107	80 - 120	105	80 - 120	<0.040	ug/L	3.0	20		
9978318	Dissolved Silicon (Si)	2020/09/02	NC	80 - 120	108	80 - 120	<50	ug/L	0.58	20		
9978318	Dissolved Silver (Ag)	2020/09/02	102	80 - 120	99	80 - 120	<0.0050	ug/L	NC	20		
9978318	Dissolved Strontium (Sr)	2020/09/02	99	80 - 120	106	80 - 120	<0.050	ug/L	0.79	20		
9978318	Dissolved Thallium (Tl)	2020/09/02	95	80 - 120	97	80 - 120	0.0032, RDL=0.0020 (2)	ug/L	0	20		
9978318	Dissolved Tin (Sn)	2020/09/02	95	80 - 120	101	80 - 120	<0.20	ug/L	NC	20		
9978318	Dissolved Titanium (Ti)	2020/09/02	99	80 - 120	105	80 - 120	<0.50	ug/L	NC	20		
9978318	Dissolved Uranium (U)	2020/09/02	103	80 - 120	106	80 - 120	<0.0020	ug/L	2.1	20		
9978318	Dissolved Vanadium (V)	2020/09/02	100	80 - 120	104	80 - 120	<0.20	ug/L	3.3	20		
9978318	Dissolved Zinc (Zn)	2020/09/02	99	80 - 120	105	80 - 120	<0.10	ug/L	1.0	20		
9978318	Dissolved Zirconium (Zr)	2020/09/02	100	80 - 120	104	80 - 120	<0.10	ug/L	4.3	20		
9978599	Dissolved Mercury (Hg)	2020/08/28	101	80 - 120	97	80 - 120	<0.0019	ug/L	NC	20		
9979063	Strong Acid Dissoc. Cyanide (CN)	2020/08/31	102	80 - 120	105	80 - 120	<0.0020	mg/L	NC	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9979151	Acidity (pH 4.5)	2020/08/28					<1.0	mg/L				
9979151	Acidity (pH 8.3)	2020/08/28			98	80 - 120	<1.0	mg/L				
9979164	Acidity (pH 4.5)	2020/08/28					<1.0	mg/L	NC	20		
9979164	Acidity (pH 8.3)	2020/08/28			99	80 - 120	<1.0	mg/L	NC	20		
9979267	Dissolved Chloride (Cl)	2020/08/28	101	80 - 120	99	80 - 120	0.98, RDL=0.50	mg/L	NC	20		
9979267	Dissolved Sulphate (SO4)	2020/08/28	99	80 - 120	96	80 - 120	0.75, RDL=0.50	mg/L	0.64	20		
9979451	Orthophosphate (P)	2020/08/28	95	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20		
9979465	Alkalinity (PP as CaCO3)	2020/08/28					<0.50	mg/L	NC	20		
9979465	Alkalinity (Total as CaCO3)	2020/08/28	97	80 - 120	96	80 - 120	<0.50	mg/L	2.1	20		
9979465	Bicarbonate (HCO3)	2020/08/28					<0.50	mg/L	2.1	20		
9979465	Carbonate (CO3)	2020/08/28					<0.50	mg/L	NC	20		
9979465	Hydroxide (OH)	2020/08/28					<0.50	mg/L	NC	20		
9979468	pH	2020/08/28			101	97 - 103			0.29	N/A		
9979469	Conductivity	2020/08/28			99	80 - 120	<1.0	uS/cm	3.5	20		
9979856	Fluoride (F)	2020/08/29	106	80 - 120	104	80 - 120	<0.010	mg/L	2.6	20		
9980022	Fluoride (F)	2020/08/29	123 (1)	80 - 120	102	80 - 120	<0.010	mg/L	5.6	20		
9981233	Total Aluminum (Al)	2020/09/01	105	80 - 120	103	80 - 120	<0.50	ug/L	2.9	20		
9981233	Total Antimony (Sb)	2020/09/01	102	80 - 120	101	80 - 120	<0.020	ug/L	NC	20		
9981233	Total Arsenic (As)	2020/09/01	103	80 - 120	102	80 - 120	<0.020	ug/L	NC	20		
9981233	Total Barium (Ba)	2020/09/01	105	80 - 120	103	80 - 120	<0.020	ug/L	NC	20		
9981233	Total Beryllium (Be)	2020/09/01	107	80 - 120	101	80 - 120	<0.010	ug/L	NC	20		
9981233	Total Bismuth (Bi)	2020/09/01	91	80 - 120	90	80 - 120	<0.0050	ug/L	NC	20		
9981233	Total Boron (B)	2020/09/01	104	80 - 120	99	80 - 120	<10	ug/L	NC	20		
9981233	Total Cadmium (Cd)	2020/09/01	104	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20		
9981233	Total Chromium (Cr)	2020/09/01	103	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
9981233	Total Cobalt (Co)	2020/09/01	98	80 - 120	97	80 - 120	<0.0050	ug/L	NC	20		
9981233	Total Copper (Cu)	2020/09/01	99	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
9981233	Total Iron (Fe)	2020/09/01	100	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
9981233	Total Lead (Pb)	2020/09/01	105	80 - 120	102	80 - 120	<0.0050	ug/L	NC	20		
9981233	Total Lithium (Li)	2020/09/01	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
9981233	Total Manganese (Mn)	2020/09/01	103	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
9981233	Total Molybdenum (Mo)	2020/09/01	103	80 - 120	100	80 - 120	<0.050	ug/L	NC	20		

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9981233	Total Nickel (Ni)	2020/09/01	100	80 - 120	99	80 - 120	<0.020	ug/L	NC	20		
9981233	Total Phosphorus (P)	2020/09/01	105	80 - 120	102	80 - 120	<2.0	ug/L				
9981233	Total Selenium (Se)	2020/09/01	105	80 - 120	104	80 - 120	<0.040	ug/L	NC	20		
9981233	Total Silicon (Si)	2020/09/01	106	80 - 120	102	80 - 120	<50	ug/L	NC	20		
9981233	Total Silver (Ag)	2020/09/01	101	80 - 120	98	80 - 120	<0.0050	ug/L	NC	20		
9981233	Total Strontium (Sr)	2020/09/01	107	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
9981233	Total Thallium (Tl)	2020/09/01	100	80 - 120	95	80 - 120	0.0031, RDL=0.0020 (2)	ug/L	17	20		
9981233	Total Tin (Sn)	2020/09/01	101	80 - 120	98	80 - 120	<0.20	ug/L	NC	20		
9981233	Total Titanium (Ti)	2020/09/01	105	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
9981233	Total Uranium (U)	2020/09/01	106	80 - 120	103	80 - 120	<0.0020	ug/L	NC	20		
9981233	Total Vanadium (V)	2020/09/01	102	80 - 120	100	80 - 120	<0.20	ug/L	NC	20		
9981233	Total Zinc (Zn)	2020/09/01	103	80 - 120	104	80 - 120	<0.10	ug/L	7.4	20		
9981233	Total Zirconium (Zr)	2020/09/01	105	80 - 120	100	80 - 120	<0.10	ug/L	NC	20		
9981465	Total Suspended Solids	2020/09/01	103	80 - 120	101	80 - 120	<1.0	mg/L	0	20		
9981499	Total Suspended Solids	2020/09/01	98	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
9982043	Total Dissolved Solids	2020/09/02	102	80 - 120	103	80 - 120	<10	mg/L	5.0	20		
9982563	Total Mercury (Hg)	2020/09/01	100	80 - 120	101	80 - 120	<0.0019	ug/L	NC	20		
9982576	Dissolved Mercury (Hg)	2020/09/01	104	80 - 120	95	80 - 120	<0.0019	ug/L	1.4	20		
9982868	Total Nitrogen (N)	2020/09/01	101	80 - 120	95	80 - 120	<0.020	mg/L	2.9	20		
9982874	Total Suspended Solids	2020/09/02	108	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
9982915	Total Suspended Solids	2020/09/02	110	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
9983587	Total Dissolved Solids	2020/09/03	103	80 - 120	93	80 - 120	<10	mg/L	3.0	20		
9984776	Total Ammonia (N)	2020/09/02	100	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
9984811	Total Phosphorus (P)	2020/09/03	NC	80 - 120	94	80 - 120	<0.0030	mg/L	5.9	20	90	80 - 120
9985079	Total Organic Carbon (C)	2020/09/02	105	80 - 120	104	80 - 120	<0.50	mg/L	NC	20		
9985485	Total Organic Carbon (C)	2020/09/03	114	80 - 120	107	80 - 120	<0.50	mg/L	2.6	20		
9986967	Dissolved Organic Carbon (C)	2020/09/04	109	80 - 120	111	80 - 120	<0.50	mg/L	5.4	20		
9987472	Dissolved Mercury (Hg)	2020/09/04	81	80 - 120	95	80 - 120	<0.0019	ug/L	NC	20		
9988069	Alkalinity (PP as CaCO3)	2020/09/04					<0.50	mg/L				
9988069	Alkalinity (Total as CaCO3)	2020/09/04			97	80 - 120	<0.50	mg/L				
9988069	Bicarbonate (HCO3)	2020/09/04					<0.50	mg/L				
9988069	Carbonate (CO3)	2020/09/04					<0.50	mg/L				

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
9988069	Hydroxide (OH)	2020/09/04					<0.50	mg/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

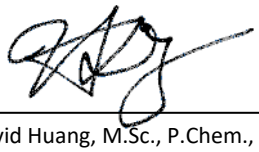
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Method blank exceeds acceptance limits for Tl- 2X RDL acceptable for low level metals determination.

Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



David Huang, M.Sc., P.Chem., QP, Scientific Services Manager



Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Laboratories Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

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C061322_COC

Bottle Order #: 617544

INVOICE TO:		Report Information		Project Information	
Company Name	#12708 Rockhaven Resources Ltd.	Company Name		Quotation #	
Contact Name	Jillian Chown	Contact Name	Jillian Chown	P.O. #	
Address	1016-510 West Hastings Street Vancouver BC V6B 1L8	Address		Project #	
Phone	(604) 688-2568 Fax: (604) 687-2552	Phone	Fax:	Project Name	
Email	chownjpc@gmail.com	Email	chownjpc@gmail.com	Site #	
				Sampled By	

Chain Of Custody Record: C#617544-02-01

Project Manager: Customer Solutions

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to BV Labs

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Acidity, Alk, Conductivity, pH, Turbidity	Ammonia	Anions (Cl, F, NO2, NO3, oPO4, SO4)	DOC	Low Level Dissolved Metals with CV Hg	Low Level Total Metals with CV Hg	Cyanide (Total) Low level	Solids (TSS-LL and TDS)	TP, TN, TKN, TOC	Ion Balance (as Cations/Anions Ratio)	# of Bottles	Comments
1		Klaza - 1	20/08/24	6:17pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
2		Klaza - 3	20/08/24	9:10pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	RECEIVED IN WHITEHORSE
3		Klaza - 12	20/08/24	4:44pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	BY: Stephanie 7555
4		Klaza - 2	20/08/25	9:50pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	2020 -08- 26
5		Klaza - 4	20/08/25	3:00pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
6		Klaza - 5	20/08/25	7:00pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	TEMP: 10 / 10 / 10
7		Klaza - 6	20/08/25	1:45pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	8 8 8
8		Klaza - 9	20/08/25	11:45am	H2O	N		X	X	X	X	X	X	X	X	X	X	13	cooling media present
9		Klaza - 10	20/08/25	5:40pm	H2O	N		X	X	X	X	X	X	X	X	X	X	13	
10																			

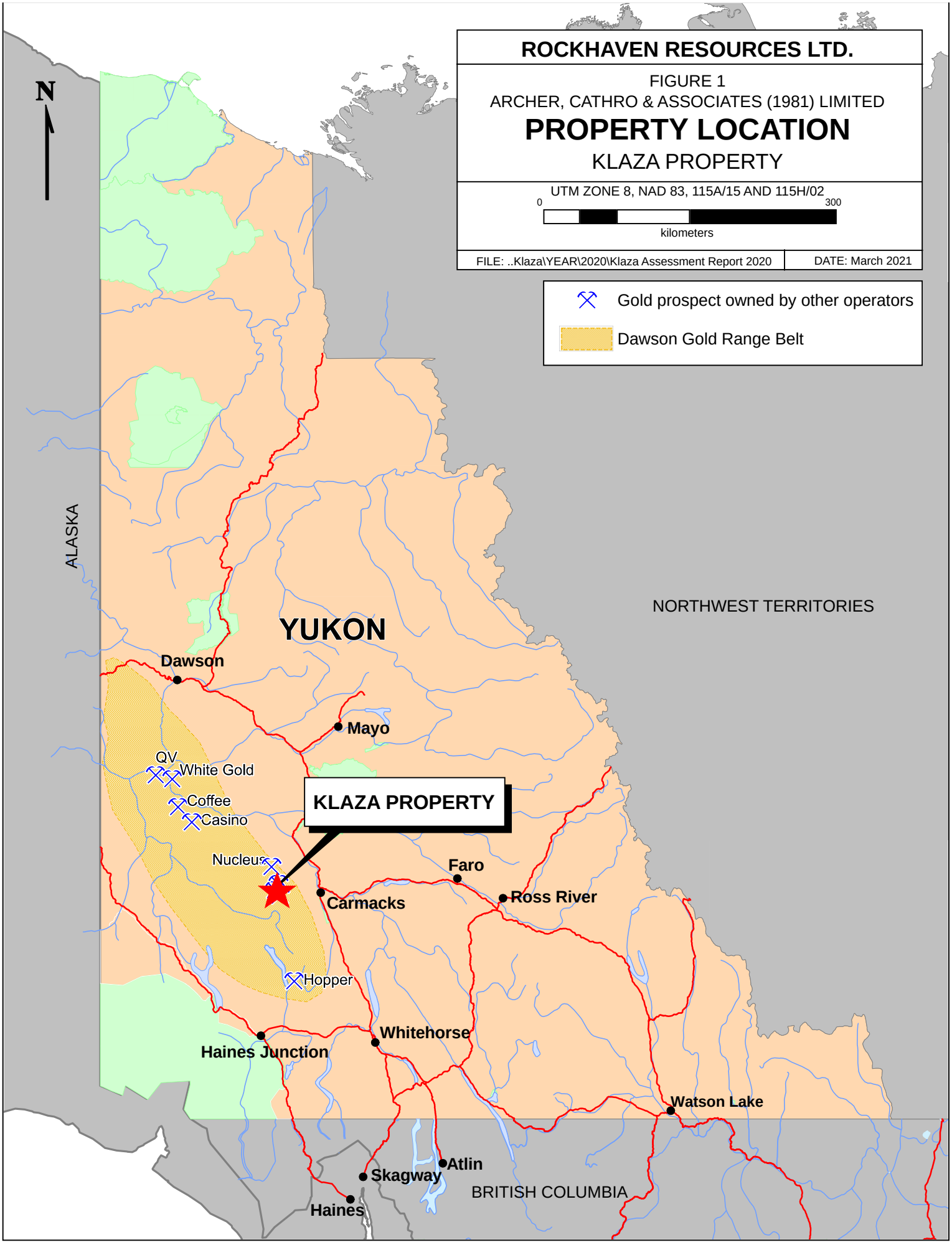
* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Yvonne Cable / Yvonne Cable	20/08/26	15:55	[signature]	20/08/27	15:10	N/A	✓	8, 8, 7	✓ Yes ☐ No

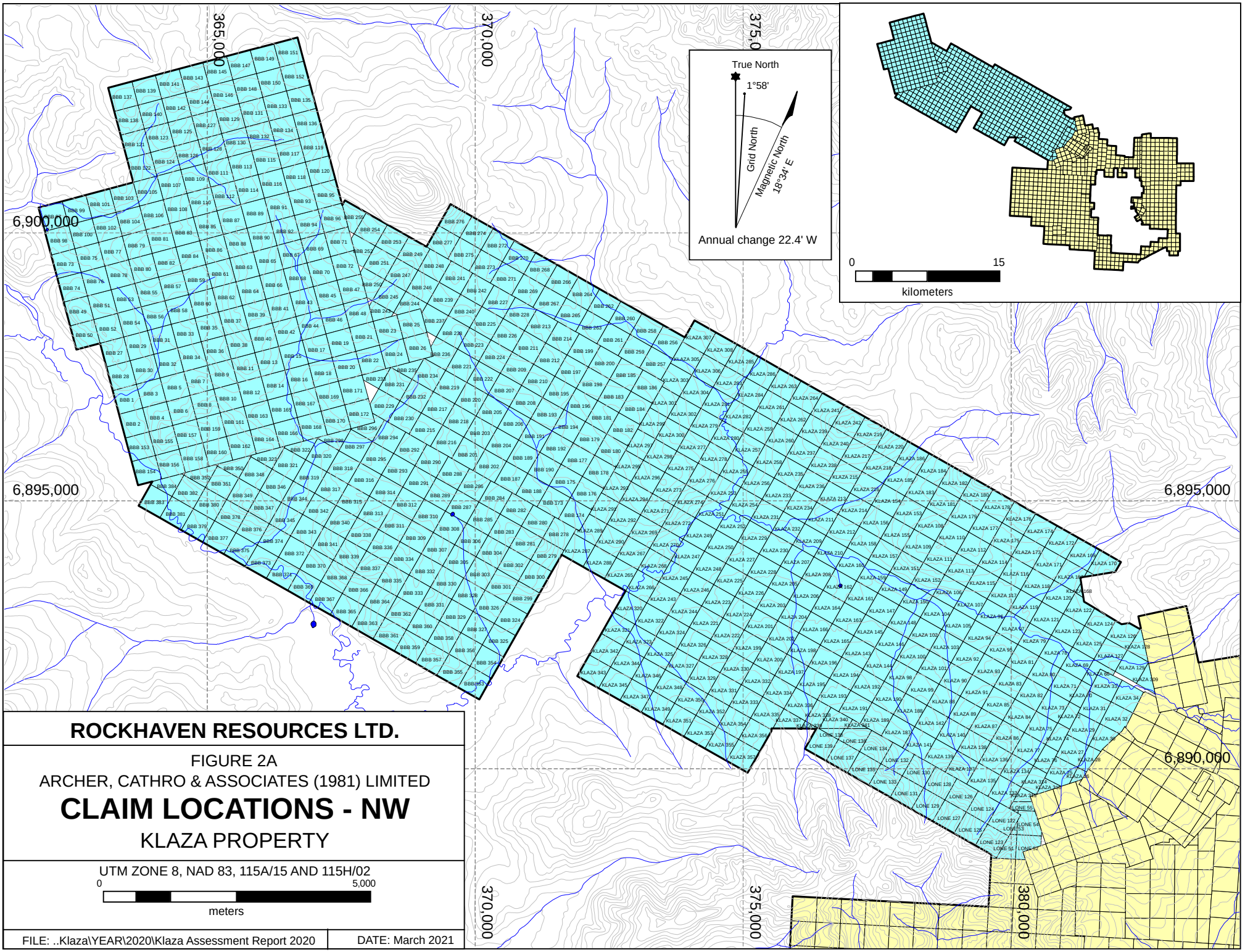
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

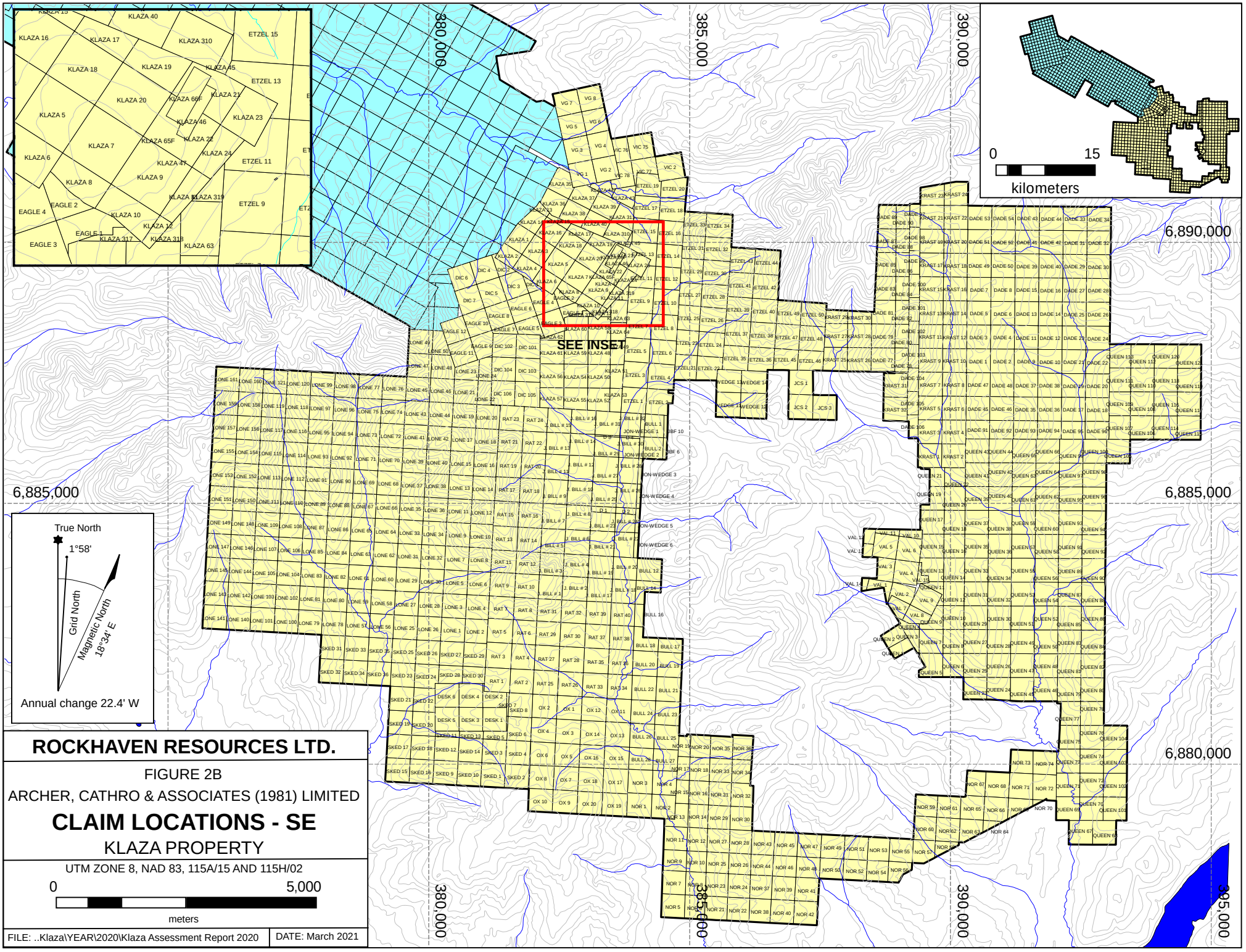
7, 7, 7

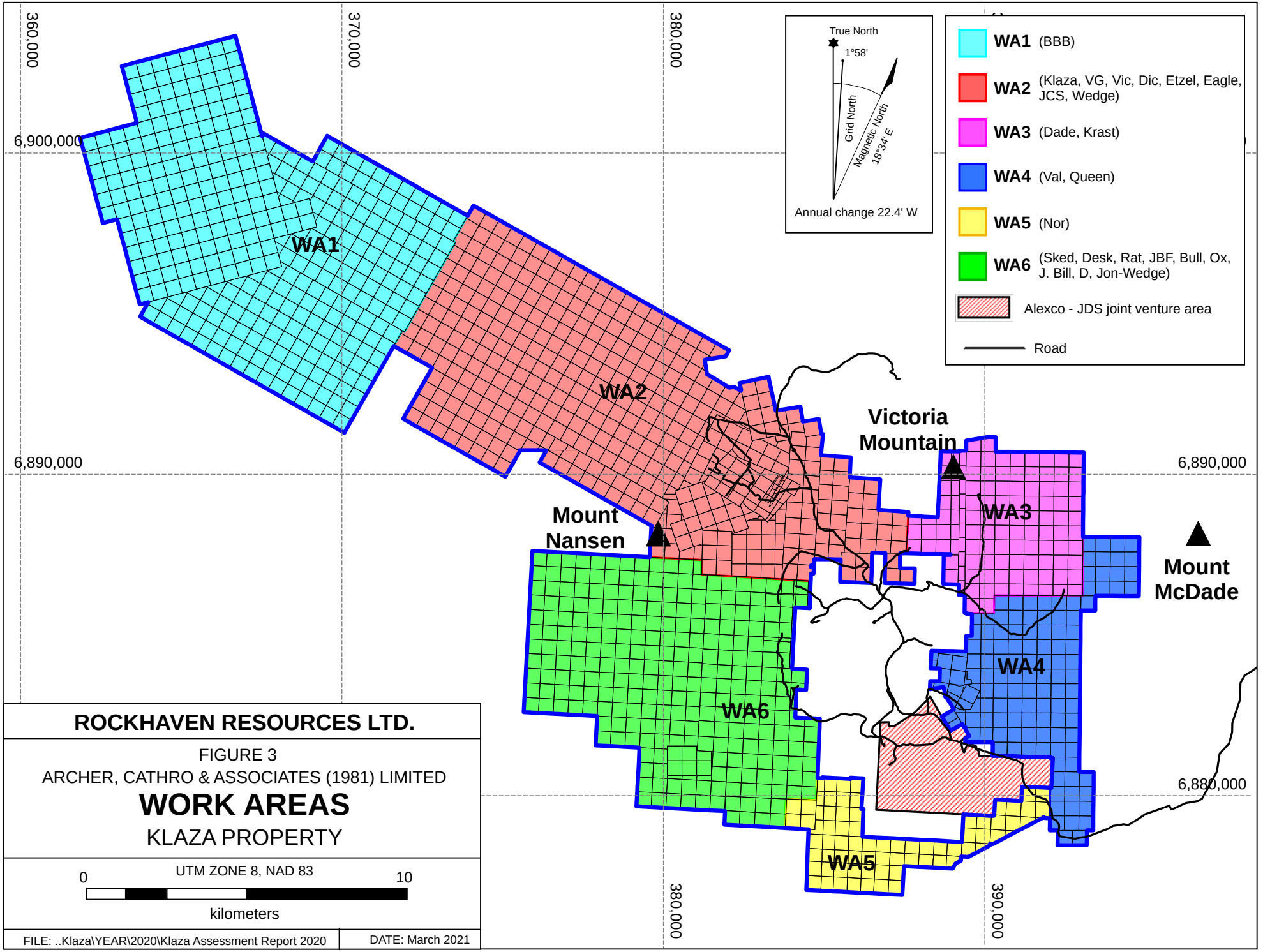
White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.


ROCKHAVEN RESOURCES LTD.
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
300
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Gold prospect owned by other operators
Dawson Gold Range Belt
N
ALASKA
YUKON
NORTHWEST TERRITORIES
BRITISH COLUMBIA
Dawson
Mayo
QV
White Gold
Coffee
Casino
Nucleus
KLAZA PROPERTY
Faro
Ross River
Carmacks
Hopper
Whitehorse
Haines Junction
Watson Lake
Atlin
Skagway
Haines


365,000
370,000
375,000
6,900,000
6,895,000
6,890,000
380,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
0
15
kilometers
ROCKHAVEN RESOURCES LTD.
FIGURE 2A
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS - NW
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
5,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


380,000
385,000
390,000
395,000
6,890,000
6,885,000
6,880,000
SEE INSET
0
15
kilometers
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
ROCKHAVEN RESOURCES LTD.
FIGURE 2B
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS - SE
KLAZA PROPERTY
UTM ZONE 8, NAD 83, 115A/15 AND 115H/02
0
5,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

WORK AREAS

KLAZA PROPERTY

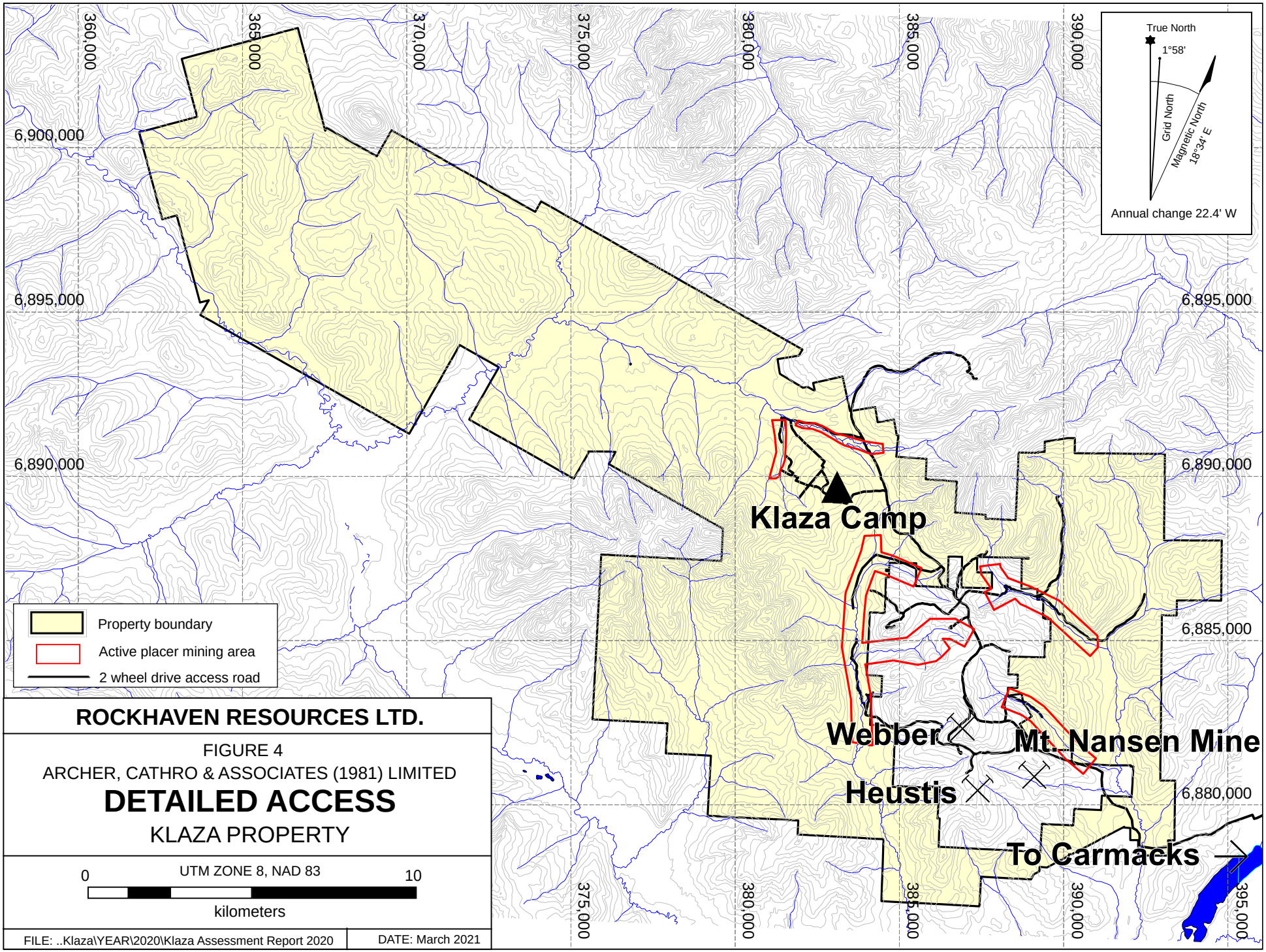
UTM ZONE 8, NAD 83

0 10

kilometers

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021


360,000
365,000
370,000
375,000
380,000
385,000
390,000
395,000
6,900,000
6,895,000
6,890,000
6,885,000
6,880,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Klaza Camp
Webber
Mt. Nansen Mine
Heustis
To Carmacks
Property boundary
Active placer mining area
2 wheel drive access road
ROCKHAVEN RESOURCES LTD.
FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DETAILED ACCESS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
10
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

ROCKHAVEN RESOURCES LTD.

FIGURE 5

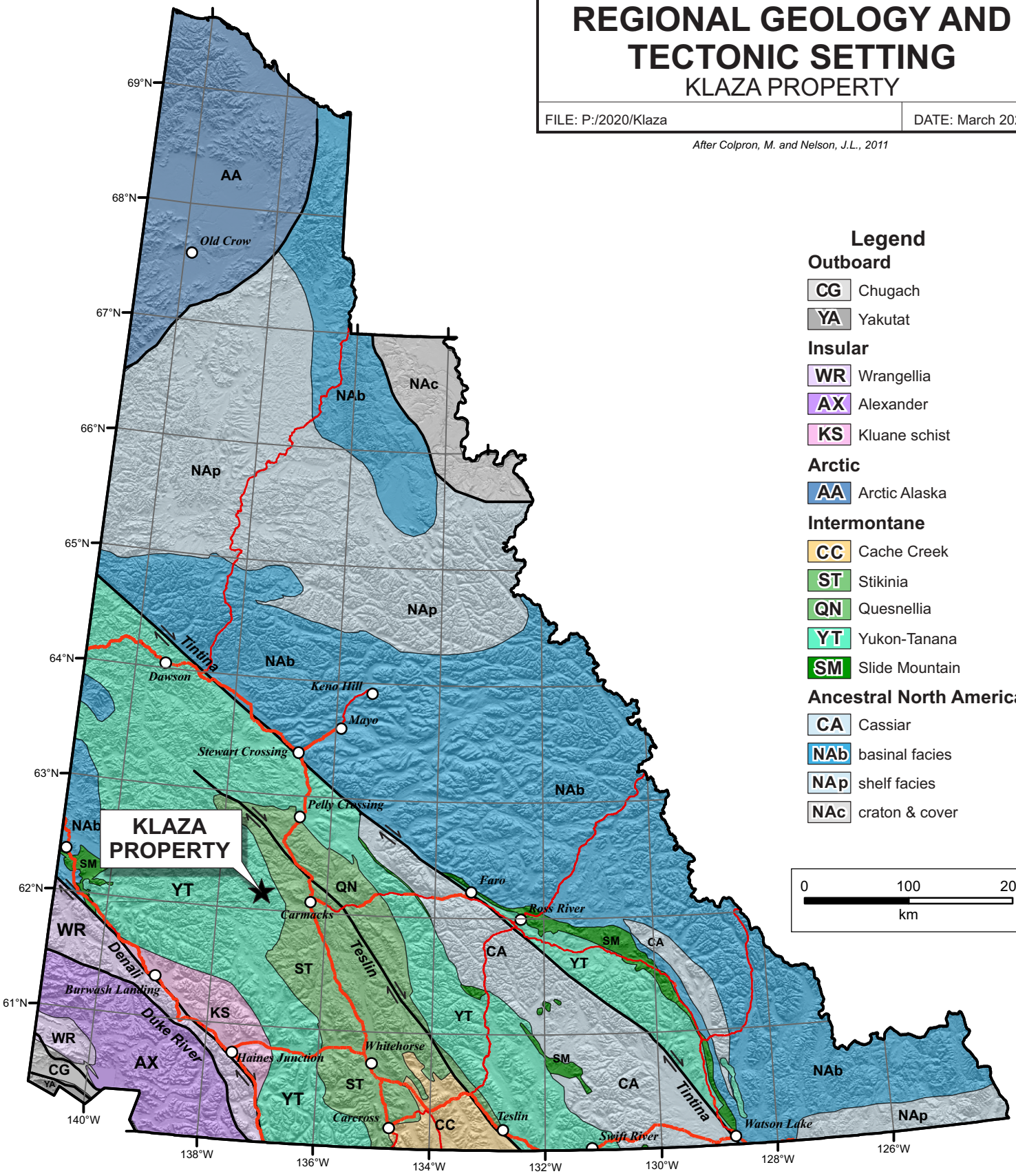
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY AND TECTONIC SETTING

KLAZA PROPERTY

FILE: P:/2020/Klaza | DATE: March 2021

After Colpron, M. and Nelson, J.L., 2011



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

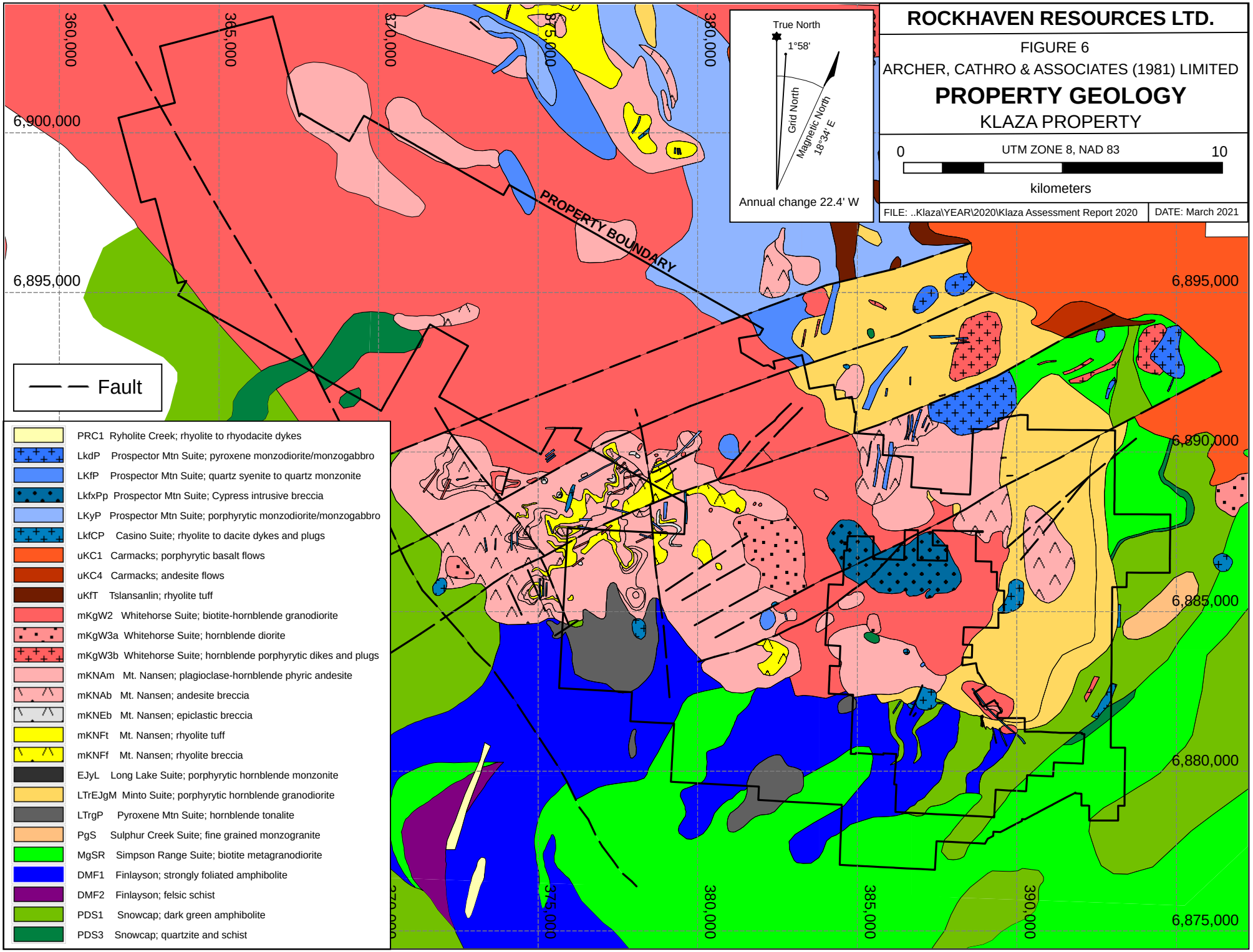
- AA Arctic Alaska

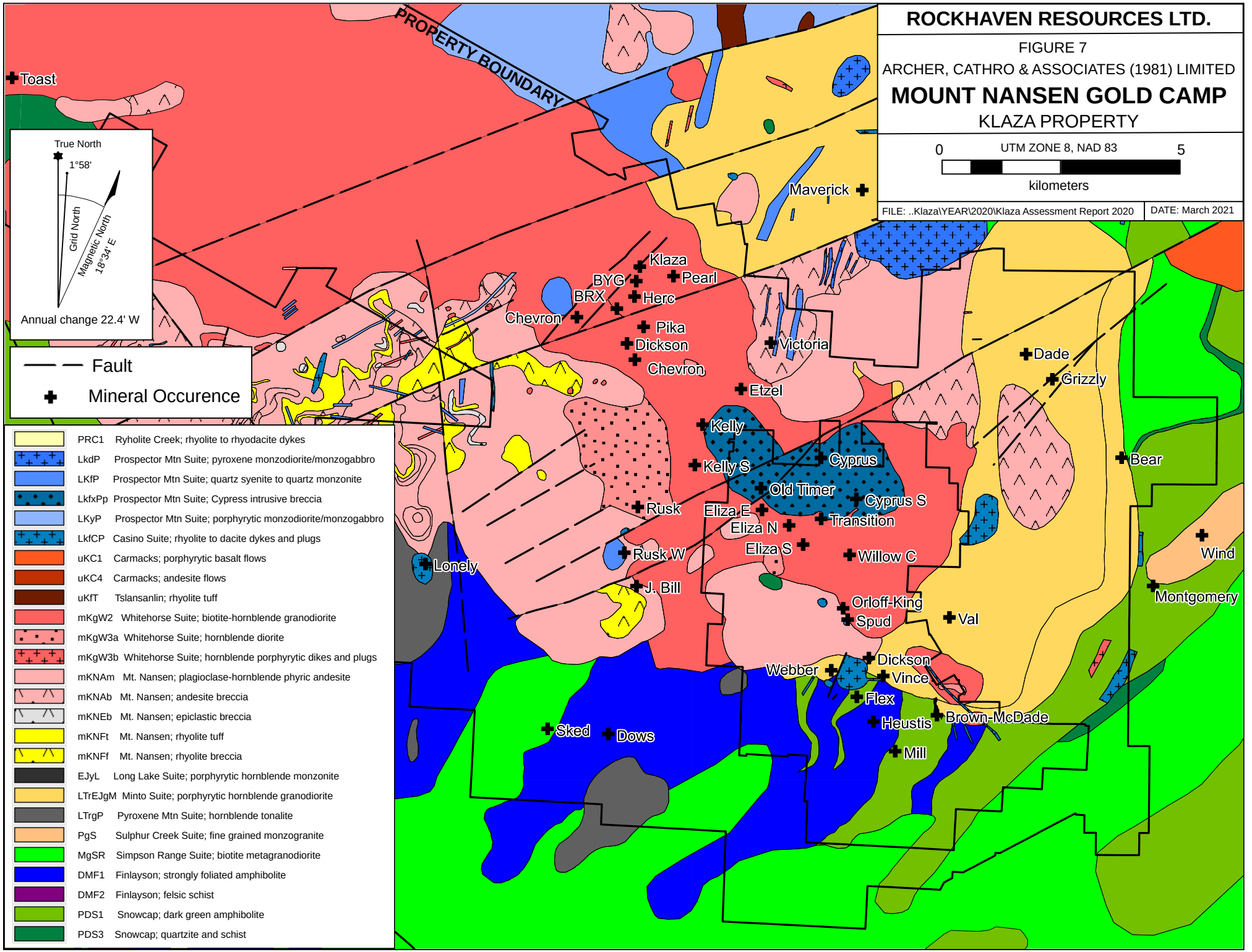
Intermontane

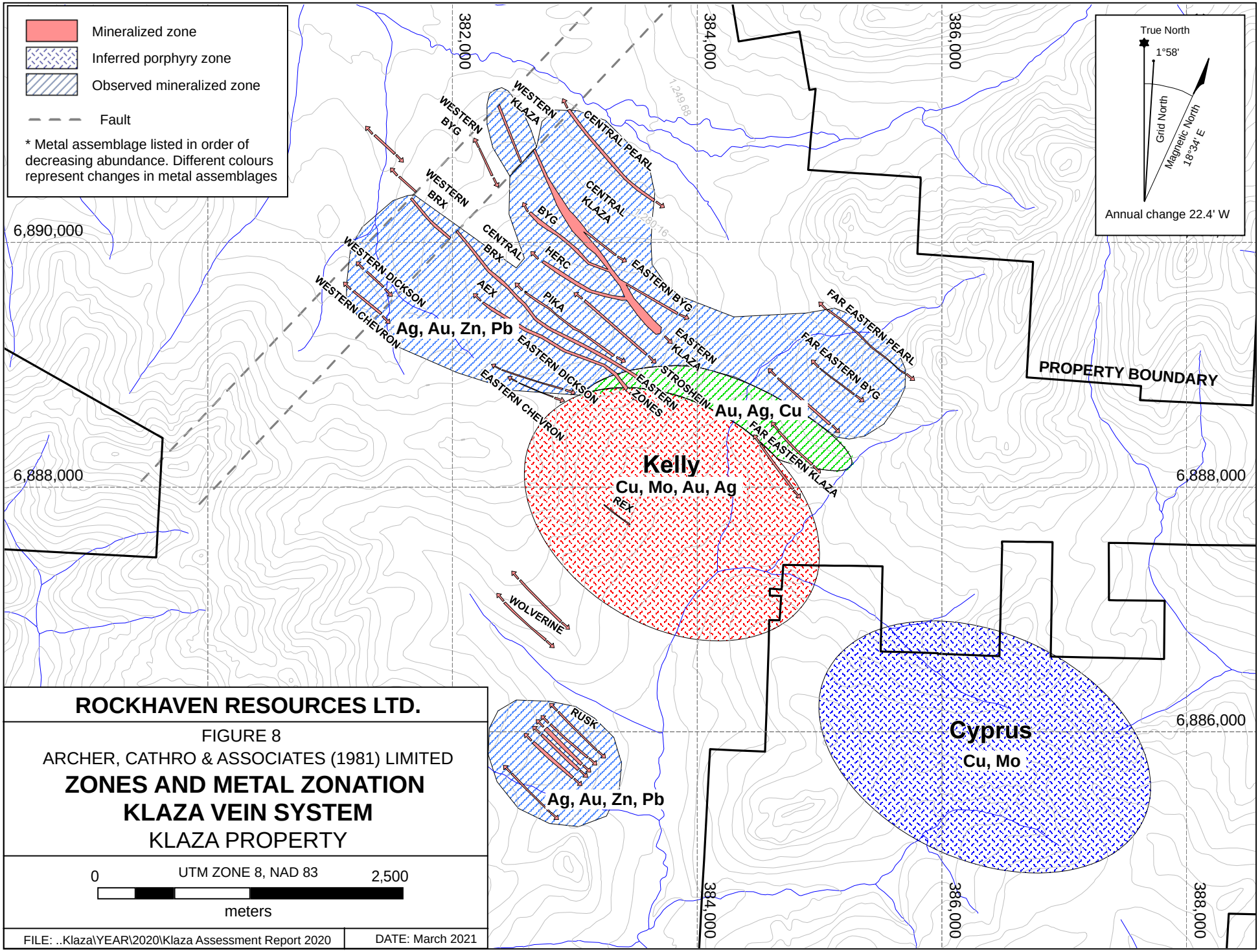
- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover


ROCKHAVEN RESOURCES LTD.
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
10
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
Fault
PRC1 Ryholite Creek; rhyolite to rhyodacite dykes
LkdP Prospector Mtn Suite; pyroxene monzodiorite/monzogabbro
LKfP Prospector Mtn Suite; quartz syenite to quartz monzonite
LkfxPp Prospector Mtn Suite; Cypress intrusive breccia
LKyP Prospector Mtn Suite; porphyrytic monzodiorite/monzogabbro
LkfCP Casino Suite; rhyolite to dacite dykes and plugs
uKC1 Carmacks; porphyrytic basalt flows
uKC4 Carmacks; andesite flows
uKfT Tslansanlin; rhyolite tuff
mKgW2 Whitehorse Suite; biotite-hornblende granodiorite
mKgW3a Whitehorse Suite; hornblende diorite
mKgW3b Whitehorse Suite; hornblende porphyrytic dikes and plugs
mKNAm Mt. Nansen; plagioclase-hornblende phyric andesite
mKNAb Mt. Nansen; andesite breccia
mKNEb Mt. Nansen; epiclastic breccia
mKNFt Mt. Nansen; rhyolite tuff
mKNFf Mt. Nansen; rhyolite breccia
EJyL Long Lake Suite; porphyrytic hornblende monzonite
LTrEJgM Minto Suite; porphyrytic hornblende granodiorite
LTrgP Pyroxene Mtn Suite; hornblende tonalite
PgS Sulphur Creek Suite; fine grained monzogranite
MgSR Simpson Range Suite; biotite metagranodiorite
DMF1 Finlayson; strongly foliated amphibolite
DMF2 Finlayson; felsic schist
PDS1 Snowcap; dark green amphibolite
PDS3 Snowcap; quartzite and schist
360,000
365,000
370,000
375,000
380,000
385,000
390,000
6,900,000
6,895,000
6,890,000
6,885,000
6,880,000
6,875,000


ROCKHAVEN RESOURCES LTD.
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MOUNT NANSEN GOLD CAMP
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
5
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
PROPERTY BOUNDARY
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Fault
Mineral Occurence
PRC1 Ryholite Creek; rhyolite to rhyodacite dykes
LkdP Prospector Mtn Suite; pyroxene monzodiorite/monzogabbro
LKfP Prospector Mtn Suite; quartz syenite to quartz monzonite
LkfxPp Prospector Mtn Suite; Cypress intrusive breccia
LKyP Prospector Mtn Suite; porphyrytic monzodiorite/monzogabbro
LkfCP Casino Suite; rhyolite to dacite dykes and plugs
uKC1 Carmacks; porphyrytic basalt flows
uKC4 Carmacks; andesite flows
uKfT Tslansanlin; rhyolite tuff
mKgW2 Whitehorse Suite; biotite-hornblende granodiorite
mKgW3a Whitehorse Suite; hornblende diorite
mKgW3b Whitehorse Suite; hornblende porphyrytic dikes and plugs
mKNAm Mt. Nansen; plagioclase-hornblende phyric andesite
mKNAb Mt. Nansen; andesite breccia
mKNEb Mt. Nansen; epiclastic breccia
mKNFt Mt. Nansen; rhyolite tuff
mKNFf Mt. Nansen; rhyolite breccia
EJyL Long Lake Suite; porphyrytic hornblende monzonite
LTrEJgM Minto Suite; porphyrytic hornblende granodiorite
LTrgP Pyroxene Mtn Suite; hornblende tonalite
PgS Sulphur Creek Suite; fine grained monzogranite
MgSR Simpson Range Suite; biotite metagranodiorite
DMF1 Finlayson; strongly foliated amphibolite
DMF2 Finlayson; felsic schist
PDS1 Snowcap; dark green amphibolite
PDS3 Snowcap; quartzite and schist
Toast
Maverick
Klaza
Pearl
BYG
BRX
Herc
Chevron
Pika
Dickson
Chevron
Victoria
Etzel
Dade
Grizzly
Kelly
Kelly S
Cyprus
Bear
Old Timer
Cyprus S
Rusk
Eliza E
Transition
Eliza N
Eliza S
Willow C
Rusk W
Lonely
J. Bill
Wind
Montgomery
Orloff-King
Spud
Val
Dickson
Webber
Vince
Flex
Brown-McDade
Heustis
Sked
Dows
Mill



ROCKHAVEN RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZONES AND METAL ZONATION KLAZA VEIN SYSTEM

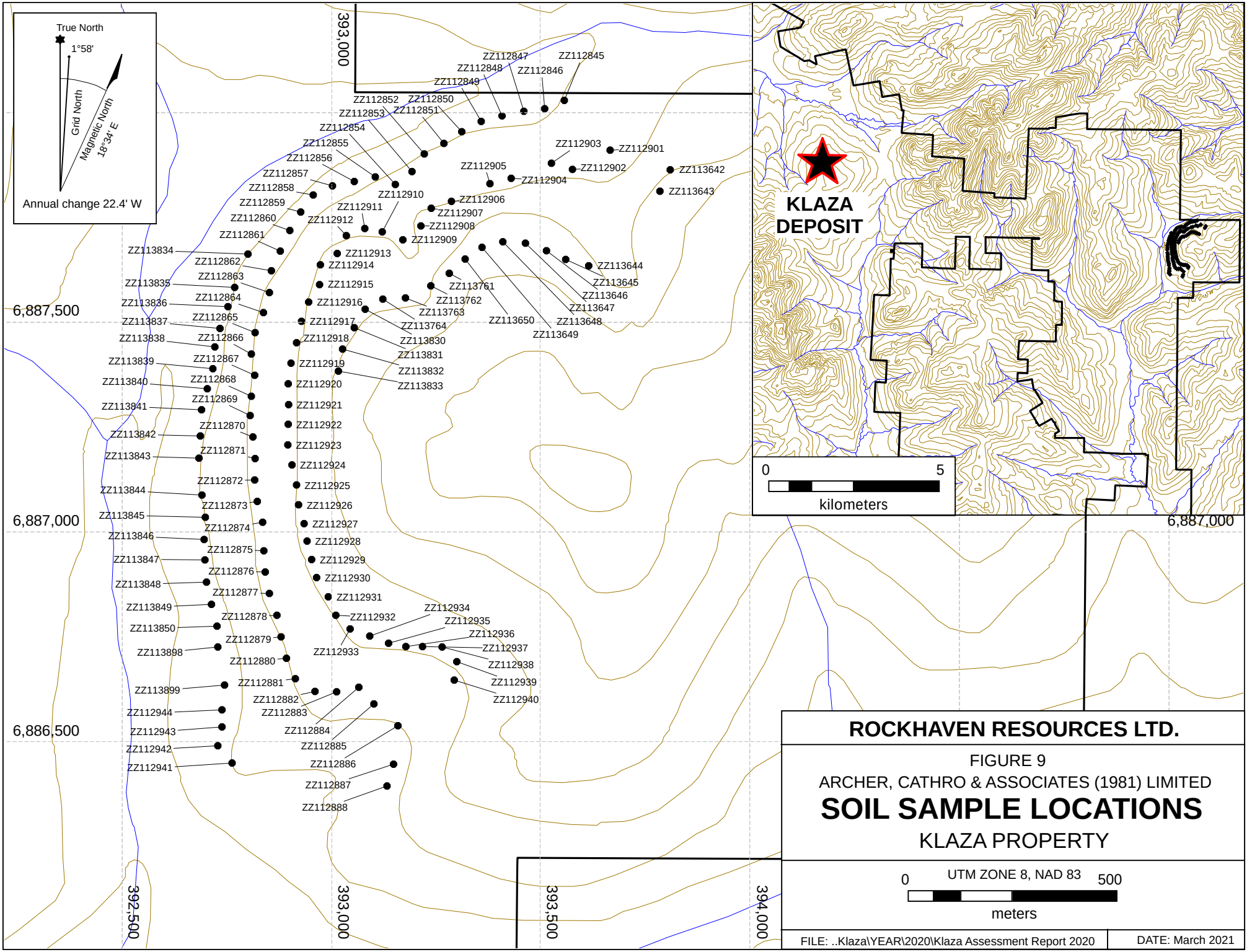
KLAZA PROPERTY

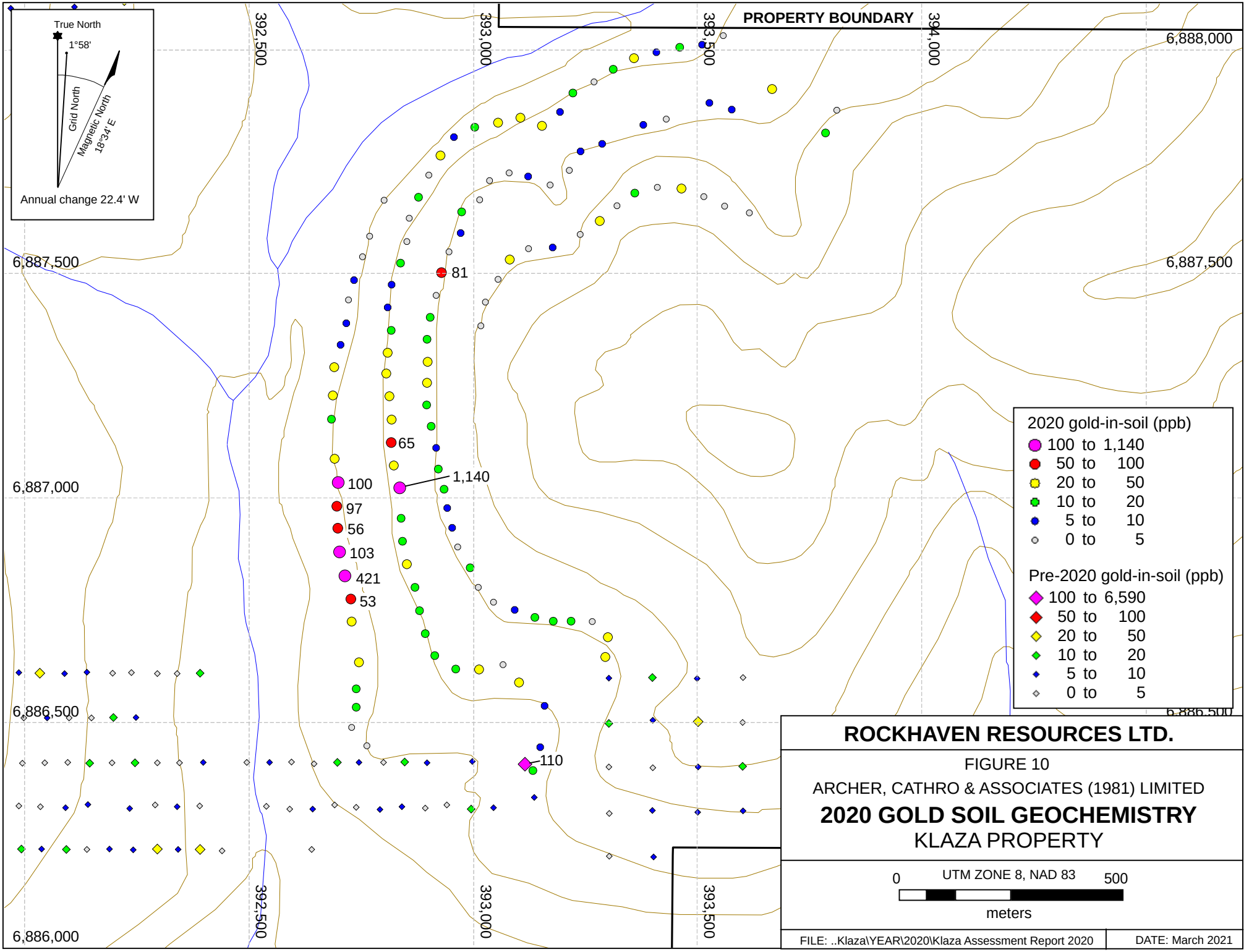
0 UTM ZONE 8, NAD 83 2,500

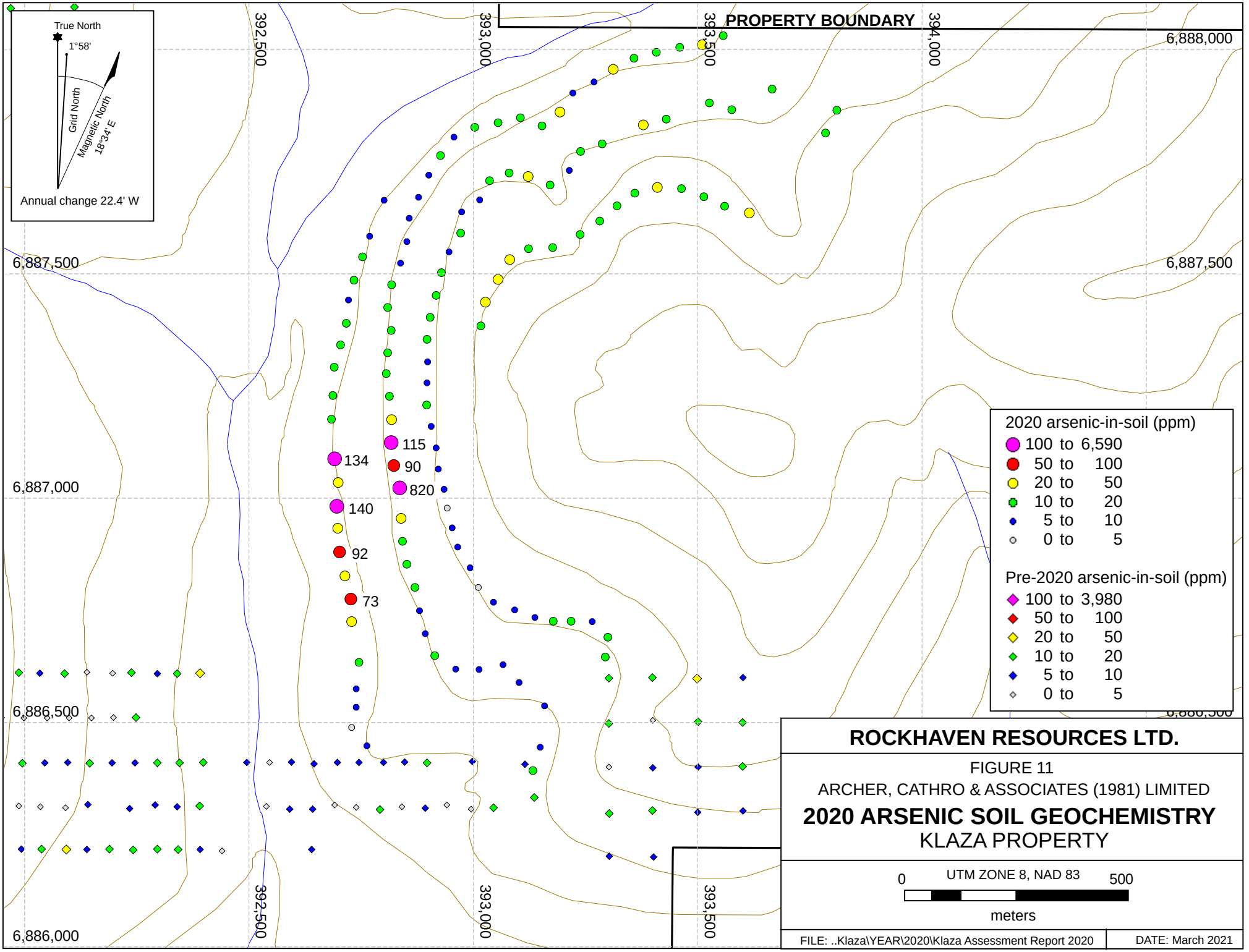
meters

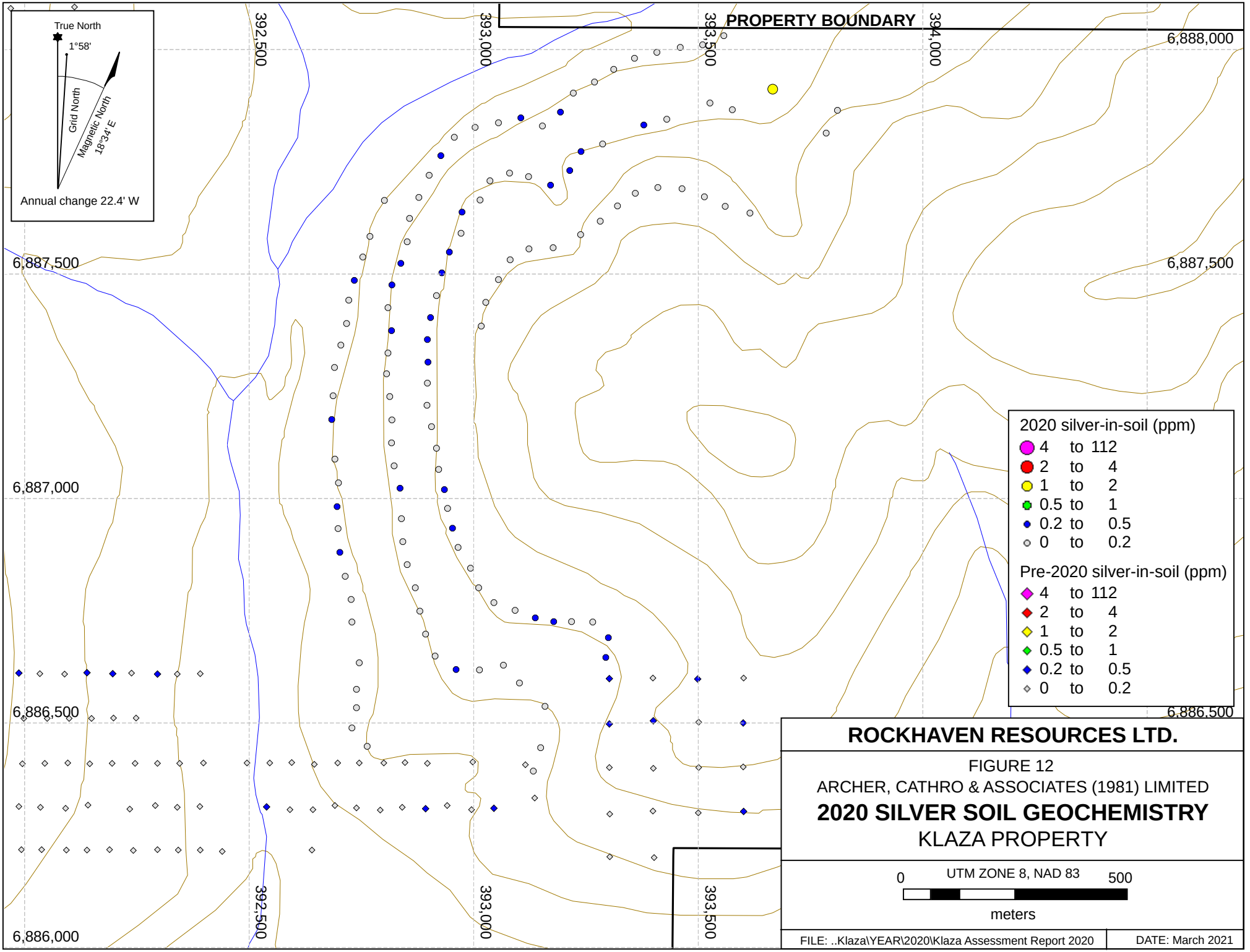
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

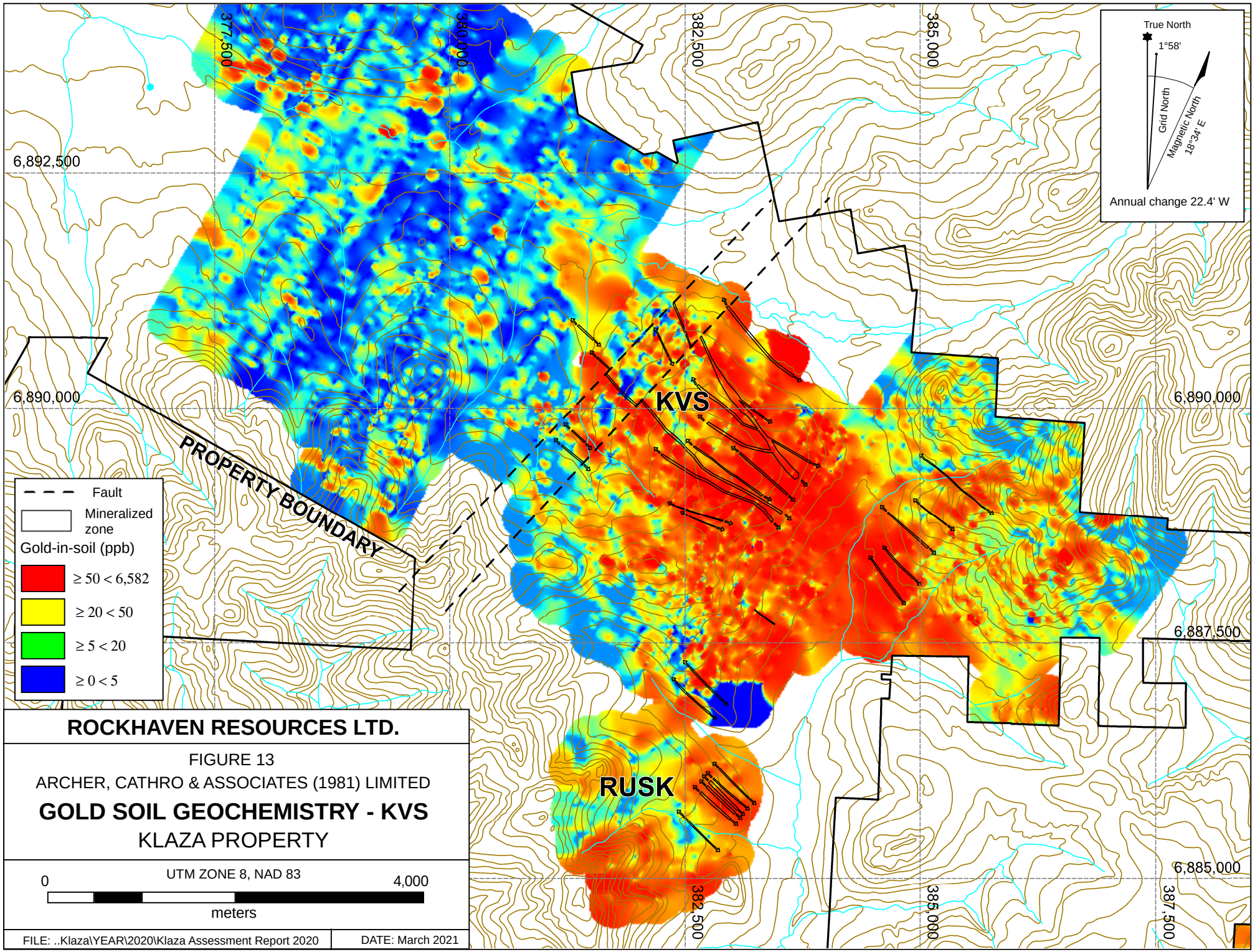
DATE: March 2021

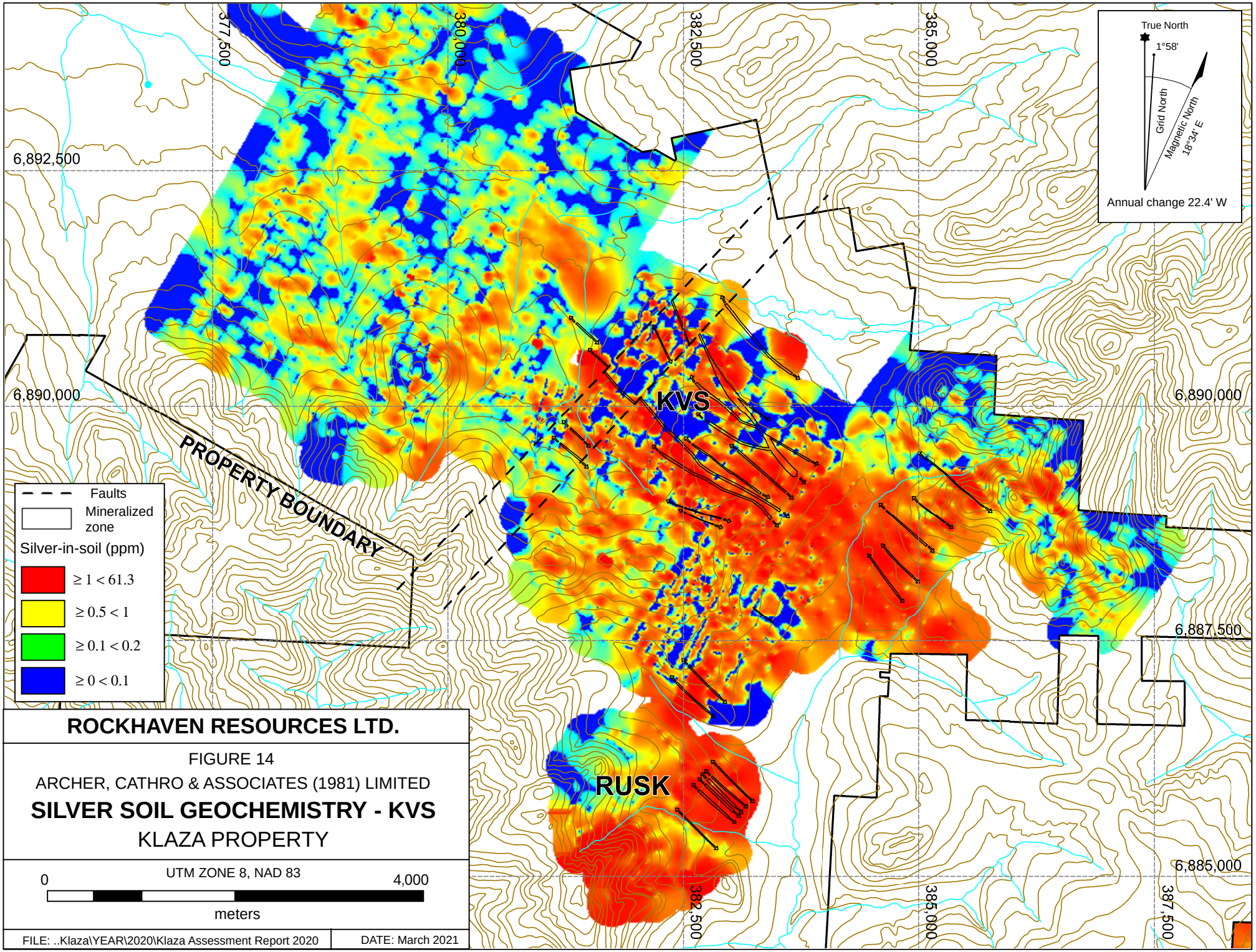

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
393,000
6,887,500
6,887,000
6,886,500
392,500
393,000
393,500
394,000
ZZ112847
ZZ112848
ZZ112849
ZZ112845
ZZ112846
ZZ112852
ZZ112850
ZZ112853
ZZ112851
ZZ112854
ZZ112855
ZZ112856
ZZ112857
ZZ112858
ZZ112859
ZZ112860
ZZ112861
ZZ112910
ZZ112911
ZZ112912
ZZ112913
ZZ112914
ZZ112915
ZZ112916
ZZ112917
ZZ112918
ZZ112919
ZZ112920
ZZ112921
ZZ112922
ZZ112923
ZZ112924
ZZ112925
ZZ112926
ZZ112927
ZZ112928
ZZ112929
ZZ112930
ZZ112931
ZZ112932
ZZ112933
ZZ112934
ZZ112935
ZZ112936
ZZ112937
ZZ112938
ZZ112939
ZZ112940
ZZ112903
ZZ112901
ZZ112905
ZZ112902
ZZ113642
ZZ112904
ZZ113643
ZZ112906
ZZ112907
ZZ112908
ZZ112909
ZZ113644
ZZ113645
ZZ113646
ZZ113647
ZZ113648
ZZ113649
ZZ113650
ZZ113761
ZZ113762
ZZ113763
ZZ113764
ZZ113830
ZZ113831
ZZ113832
ZZ113833
ZZ113834
ZZ113835
ZZ113836
ZZ113837
ZZ113838
ZZ113839
ZZ113840
ZZ113841
ZZ113842
ZZ113843
ZZ113844
ZZ113845
ZZ113846
ZZ113847
ZZ113848
ZZ113849
ZZ113850
ZZ113898
ZZ113899
ZZ112862
ZZ112863
ZZ112864
ZZ112865
ZZ112866
ZZ112867
ZZ112868
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ZZ112870
ZZ112871
ZZ112872
ZZ112873
ZZ112874
ZZ112875
ZZ112876
ZZ112877
ZZ112878
ZZ112879
ZZ112880
ZZ112881
ZZ112882
ZZ112883
ZZ112884
ZZ112885
ZZ112886
ZZ112887
ZZ112888
ZZ112944
ZZ112943
ZZ112942
ZZ112941
KLAZA
DEPOSIT
0
5
kilometers
6,887,000
ROCKHAVEN RESOURCES LTD.
FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SOIL SAMPLE LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

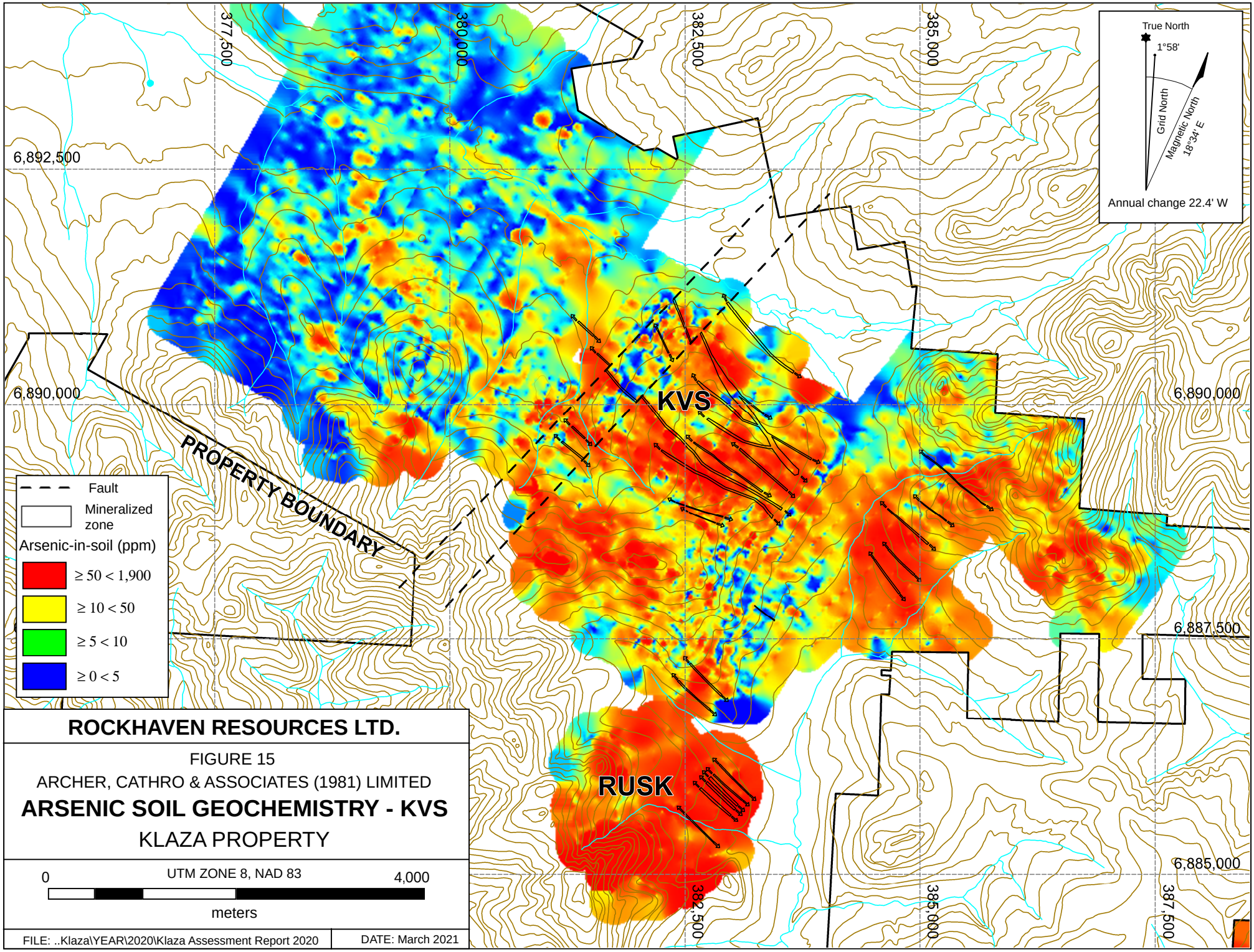

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
81
65
100
1,140
97
56
103
421
53
110
2020 gold-in-soil (ppb)
100 to 1,140
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
Pre-2020 gold-in-soil (ppb)
100 to 6,590
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
ROCKHAVEN RESOURCES LTD.
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 GOLD SOIL GEOCHEMISTRY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

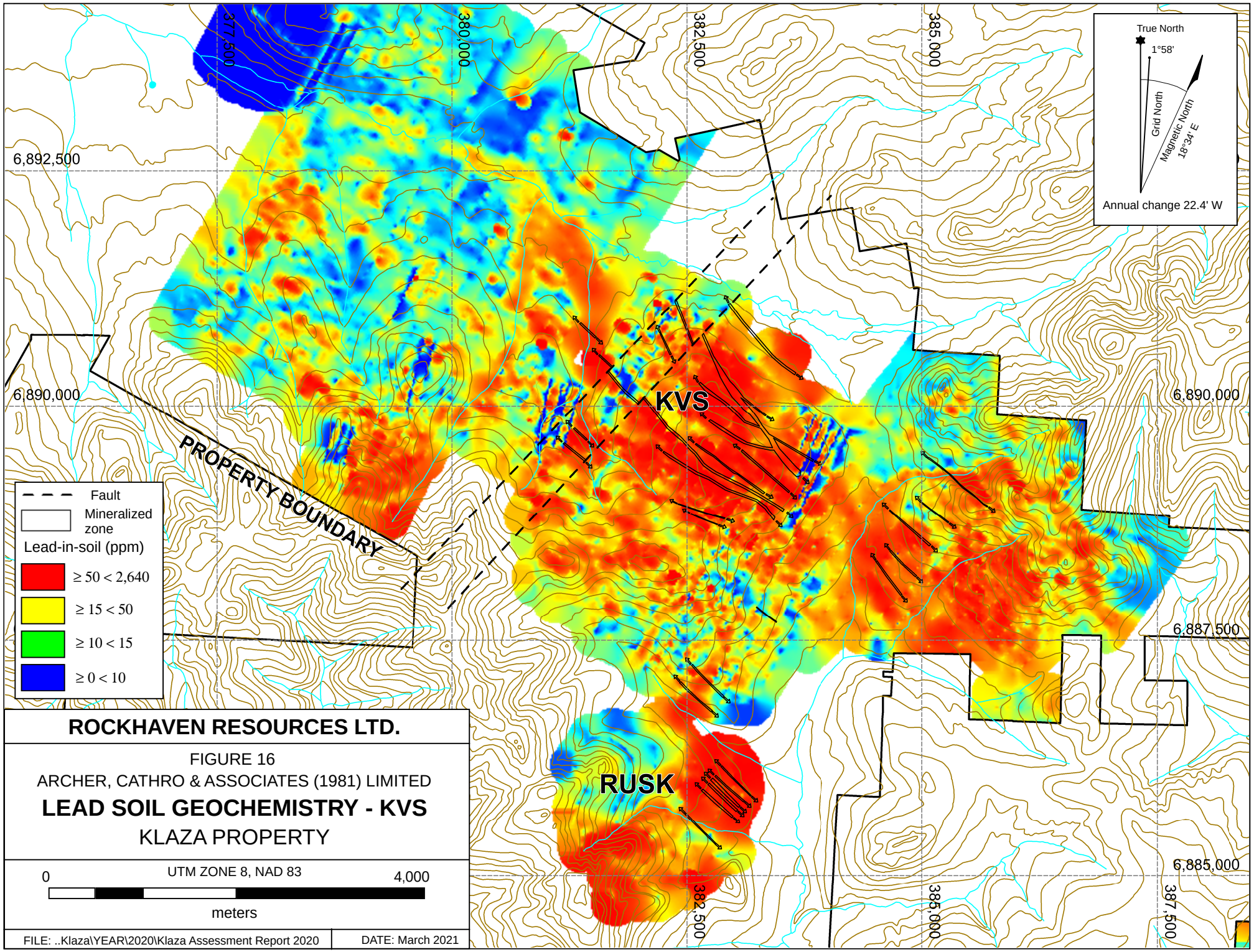

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
115
134
90
820
140
92
73
2020 arsenic-in-soil (ppm)
100 to 6,590
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
Pre-2020 arsenic-in-soil (ppm)
100 to 3,980
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5
ROCKHAVEN RESOURCES LTD.
FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 ARSENIC SOIL GEOCHEMISTRY
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

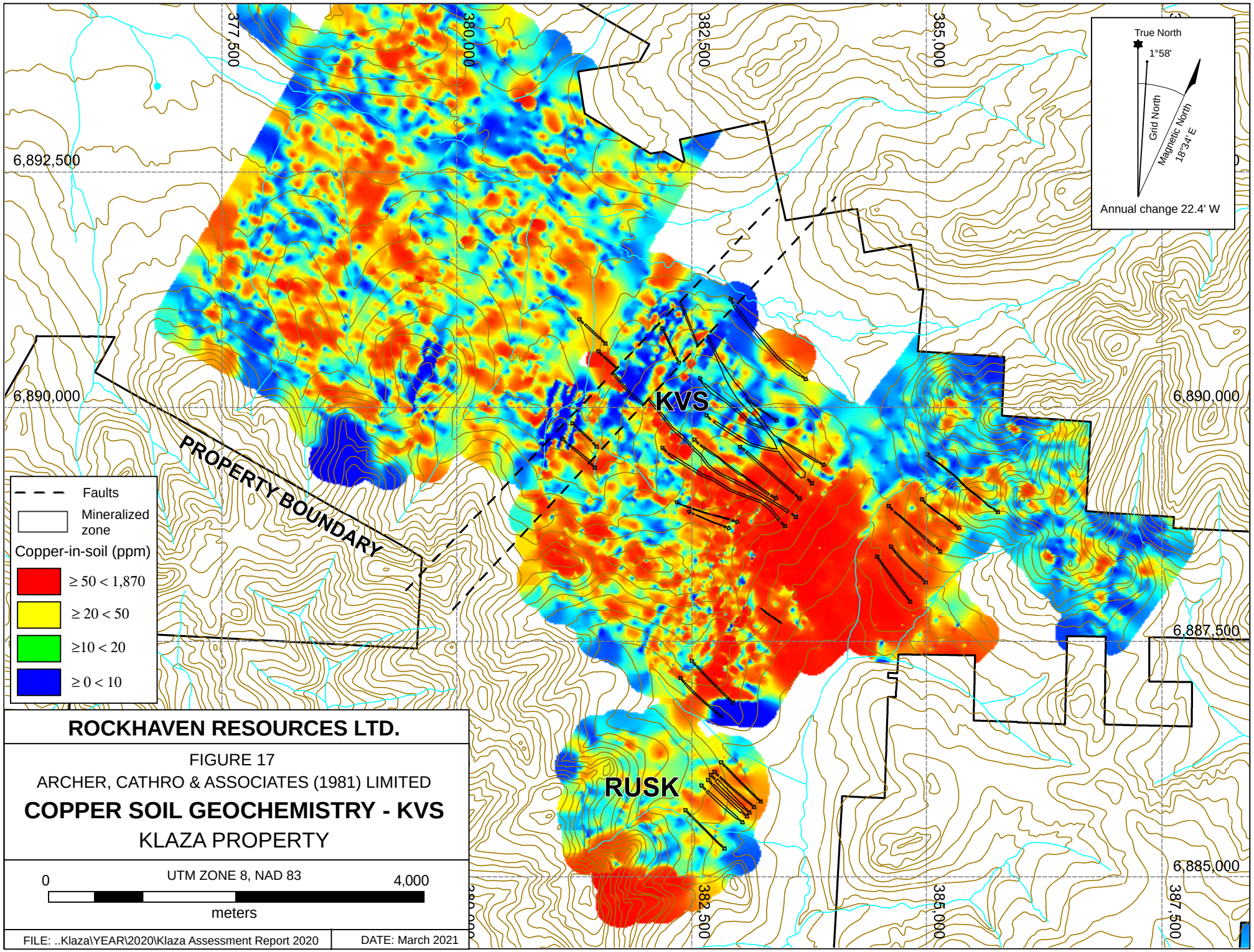

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
392,500
393,000
393,500
394,000
6,888,000
6,887,500
6,887,000
6,886,500
6,886,000
2020 silver-in-soil (ppm)
4 to 112
2 to 4
1 to 2
0.5 to 1
0.2 to 0.5
0 to 0.2
Pre-2020 silver-in-soil (ppm)
4 to 112
2 to 4
1 to 2
0.5 to 1
0.2 to 0.5
0 to 0.2
ROCKHAVEN RESOURCES LTD.
FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 SILVER SOIL GEOCHEMISTRY
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

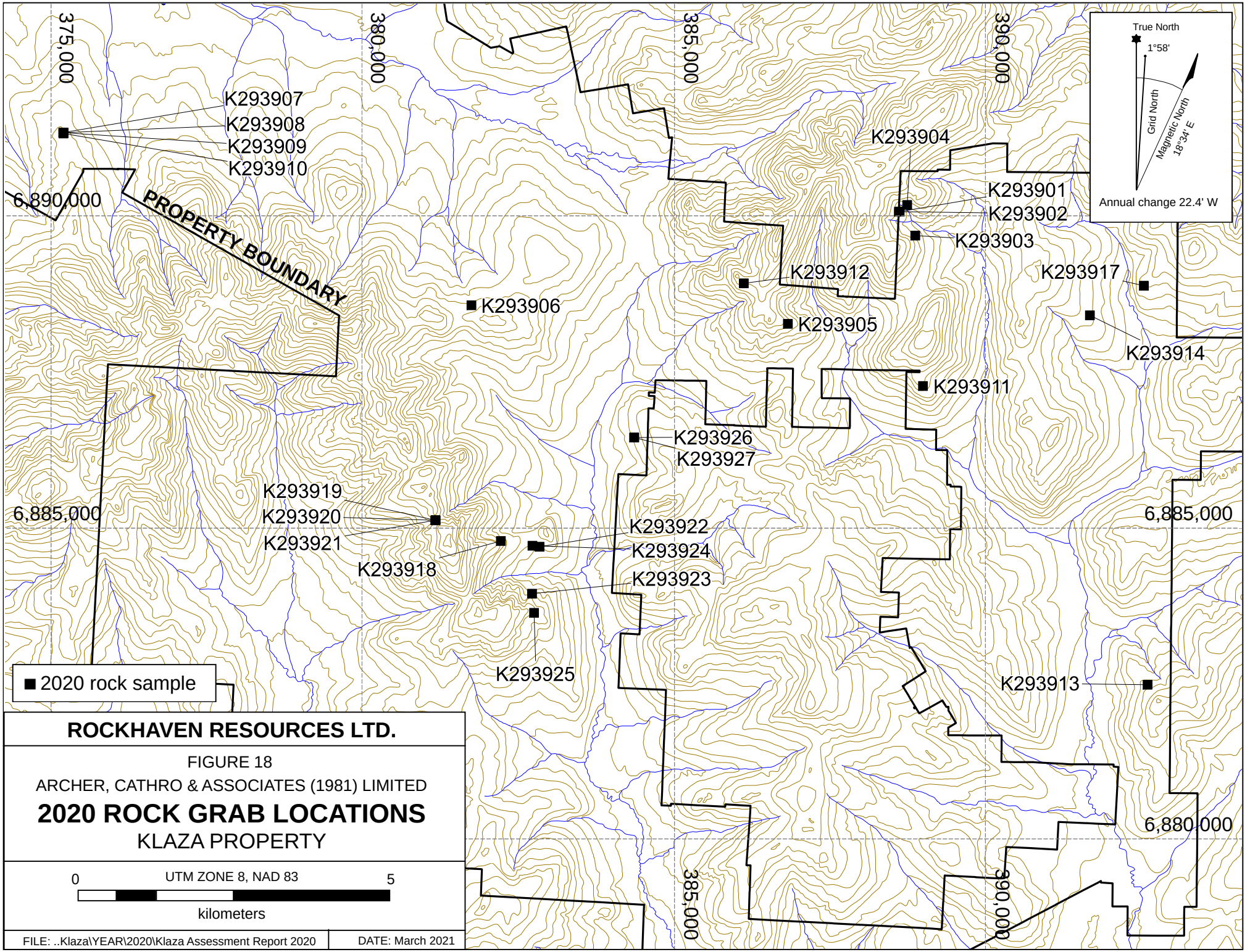

377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Gold-in-soil (ppb)
≥ 50 < 6,582
≥ 20 < 50
≥ 5 < 20
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021

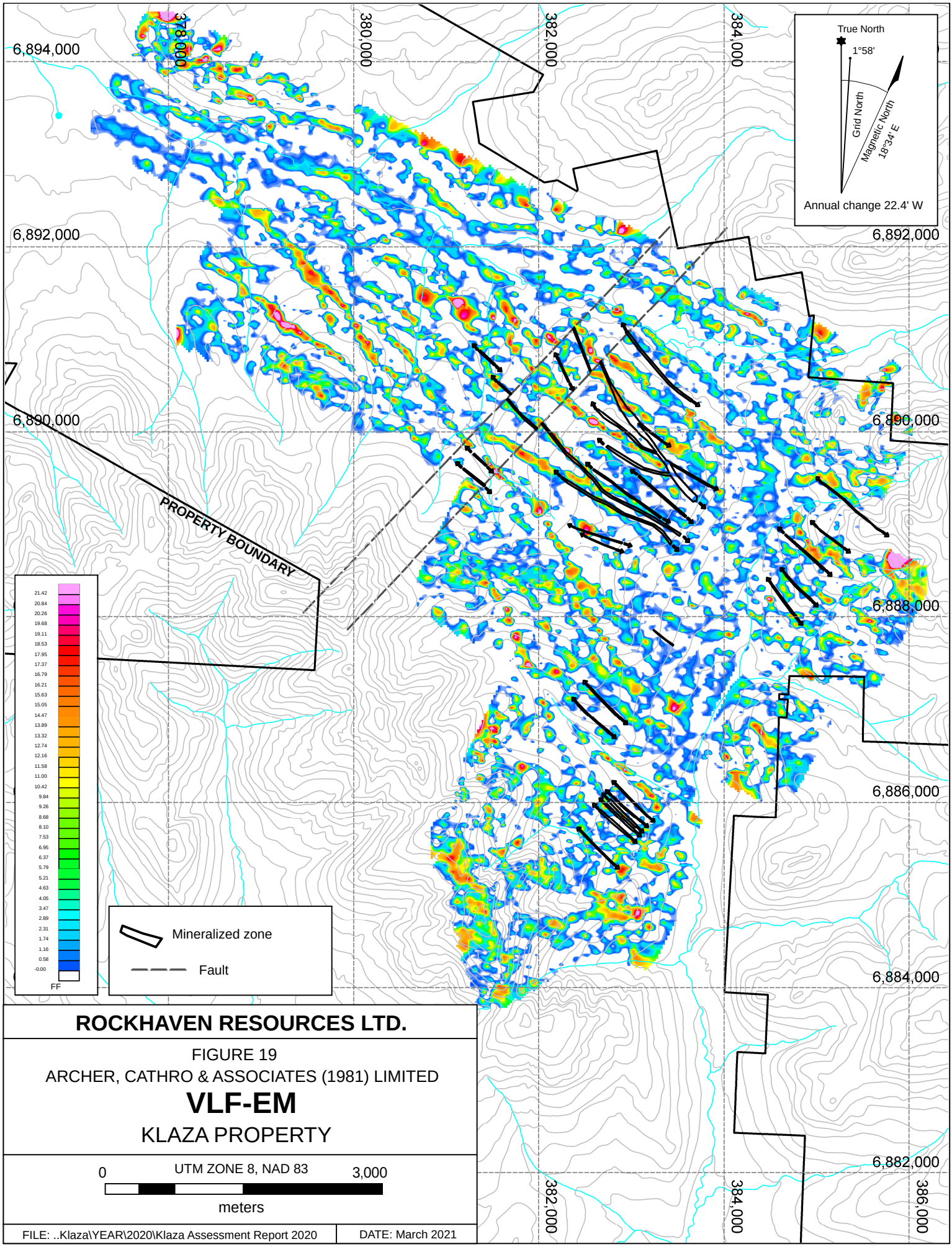

True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
KVS
RUSK
PROPERTY BOUNDARY
Faults
Mineralized zone
Silver-in-soil (ppm)
≥ 1 < 61.3
≥ 0.5 < 1
≥ 0.1 < 0.2
≥ 0 < 0.1
ROCKHAVEN RESOURCES LTD.
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
387,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Arsenic-in-soil (ppm)
≥ 50 < 1,900
≥ 10 < 50
≥ 5 < 10
≥ 0 < 5
ROCKHAVEN RESOURCES LTD.
FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Fault
Mineralized zone
Lead-in-soil (ppm)
≥ 50 < 2,640
≥ 15 < 50
≥ 10 < 15
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


377,500
380,000
382,500
385,000
6,892,500
6,890,000
6,887,500
6,885,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
KVS
RUSK
PROPERTY BOUNDARY
Faults
Mineralized zone
Copper-in-soil (ppm)
≥ 50 < 1,870
≥ 20 < 50
≥10 < 20
≥ 0 < 10
ROCKHAVEN RESOURCES LTD.
FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY - KVS
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
4,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


375,000
380,000
385,000
390,000
6,890,000
6,885,000
6,880,000
PROPERTY BOUNDARY
K293907
K293908
K293909
K293910
K293904
K293901
K293902
K293903
K293912
K293917
K293906
K293905
K293914
K293911
K293926
K293927
K293919
K293920
K293921
K293918
K293922
K293924
K293923
K293925
K293913
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
■ 2020 rock sample
ROCKHAVEN RESOURCES LTD.
FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
2020 ROCK GRAB LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
5
kilometers
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

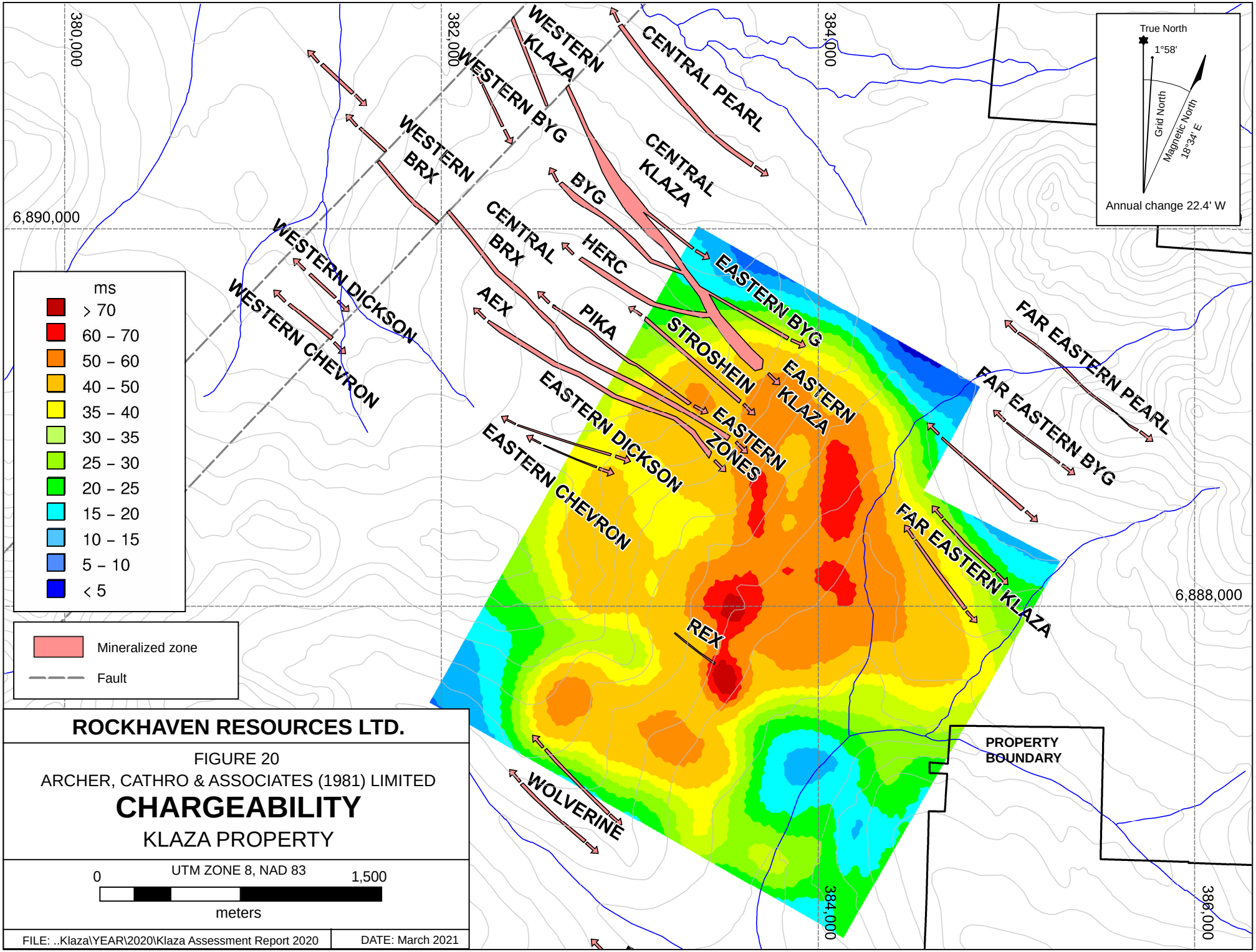
VLF-EM

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 3,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020 | DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CHARGEABILITY

KLAZA PROPERTY

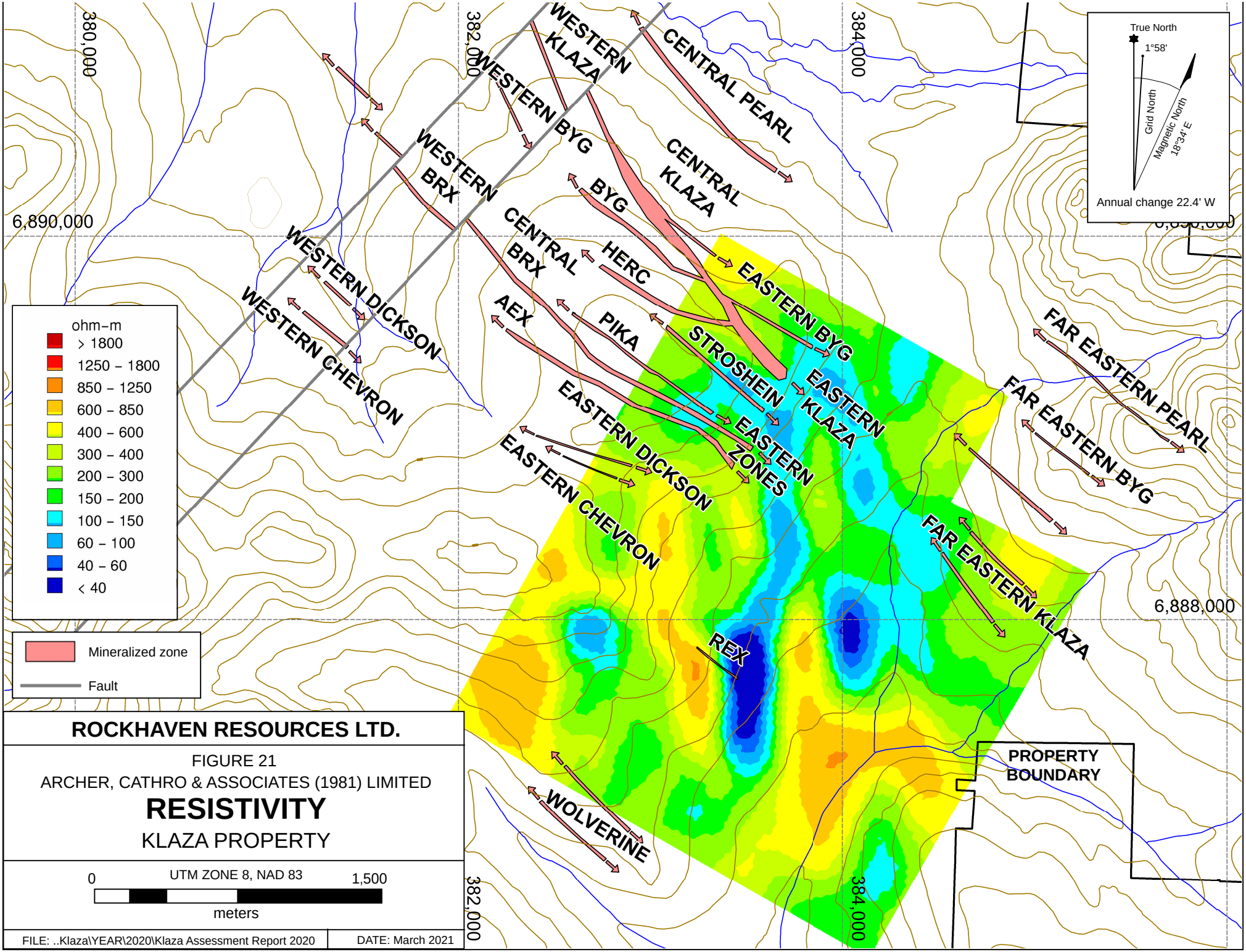
UTM ZONE 8, NAD 83

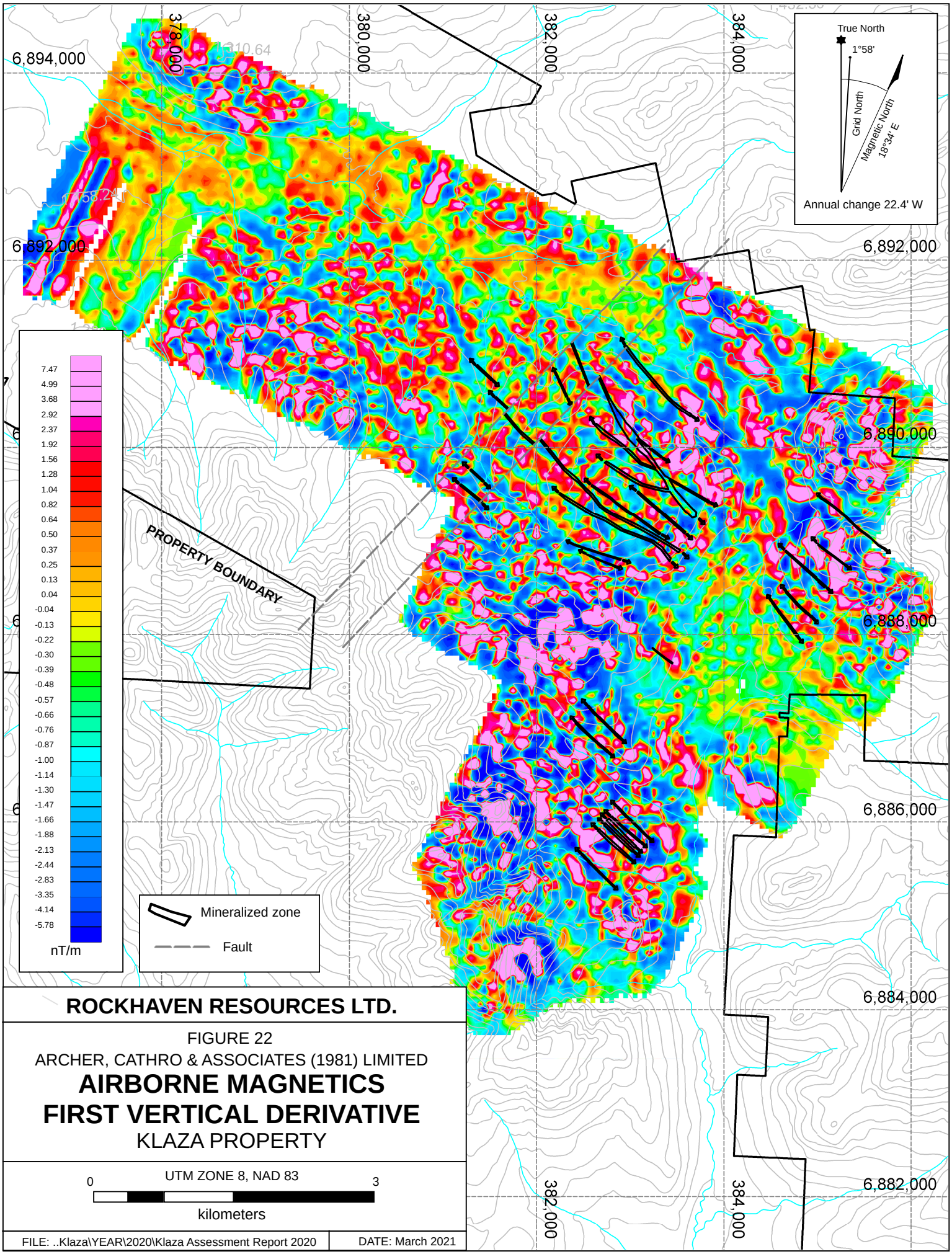
0 1,500

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021


380,000
382,000
384,000
6,890,000
6,888,000
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
ohm-m
> 1800
1250 – 1800
850 – 1250
600 – 850
400 – 600
300 – 400
200 – 300
150 – 200
100 – 150
60 – 100
40 – 60
< 40
Mineralized zone
Fault
WESTERN KLAZA
CENTRAL PEARL
WESTERN BYG
WESTERN BRX
CENTRAL KLAZA
BYG
CENTRAL BRX
HERC
WESTERN DICKSON
WESTERN CHEVRON
AEX
PIKA
STROSHEIN
EASTERN BYG
EASTERN KLAZA
EASTERN ZONES
EASTERN DICKSON
EASTERN CHEVRON
FAR EASTERN PEARL
FAR EASTERN BYG
FAR EASTERN KLAZA
REX
WOLVERINE
PROPERTY BOUNDARY
ROCKHAVEN RESOURCES LTD.
FIGURE 21
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
RESISTIVITY
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

AIRBORNE MAGNETICS
FIRST VERTICAL DERIVATIVE

KLAZA PROPERTY

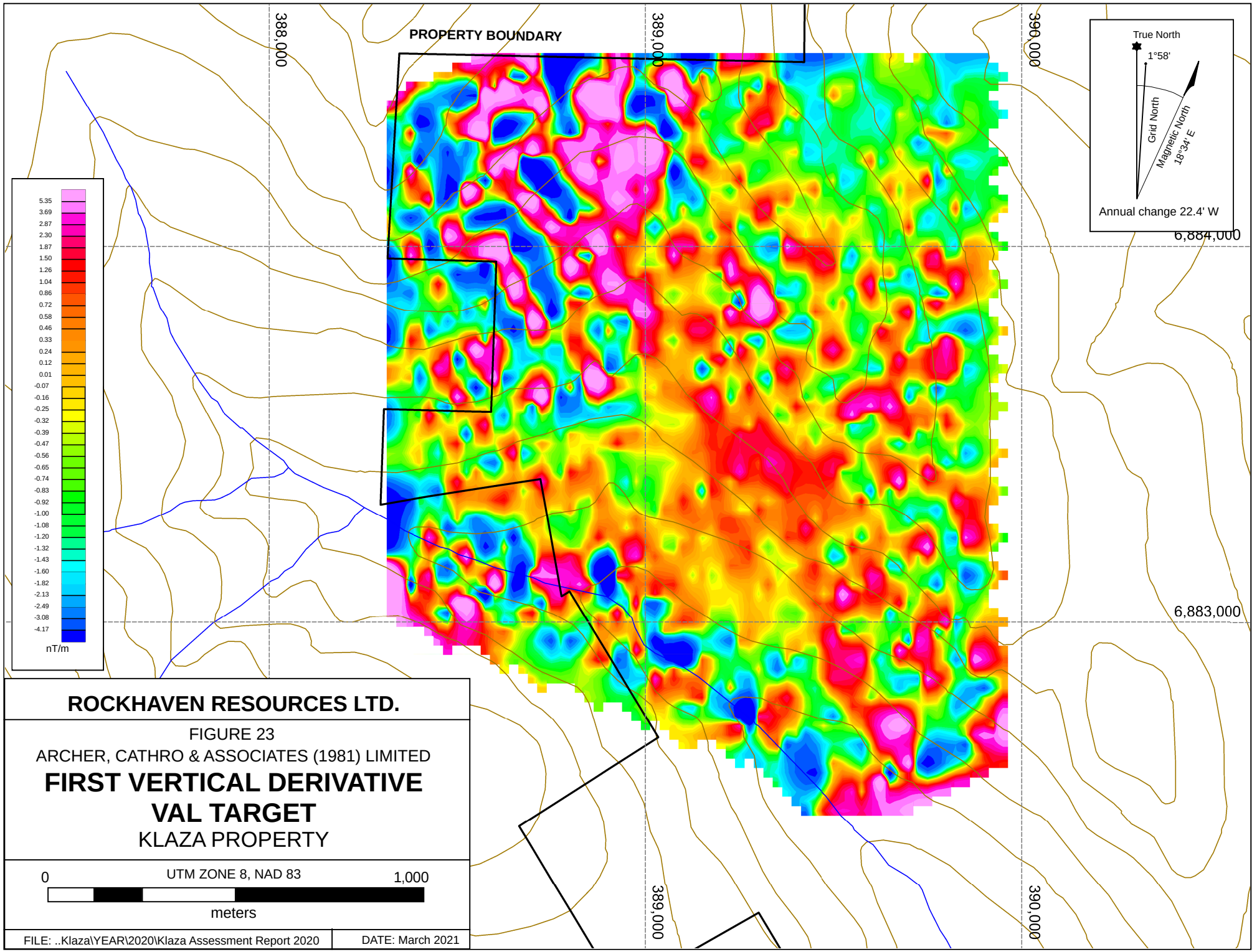
UTM ZONE 8, NAD 83

0 3

kilometers

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIRST VERTICAL DERIVATIVE
VAL TARGET

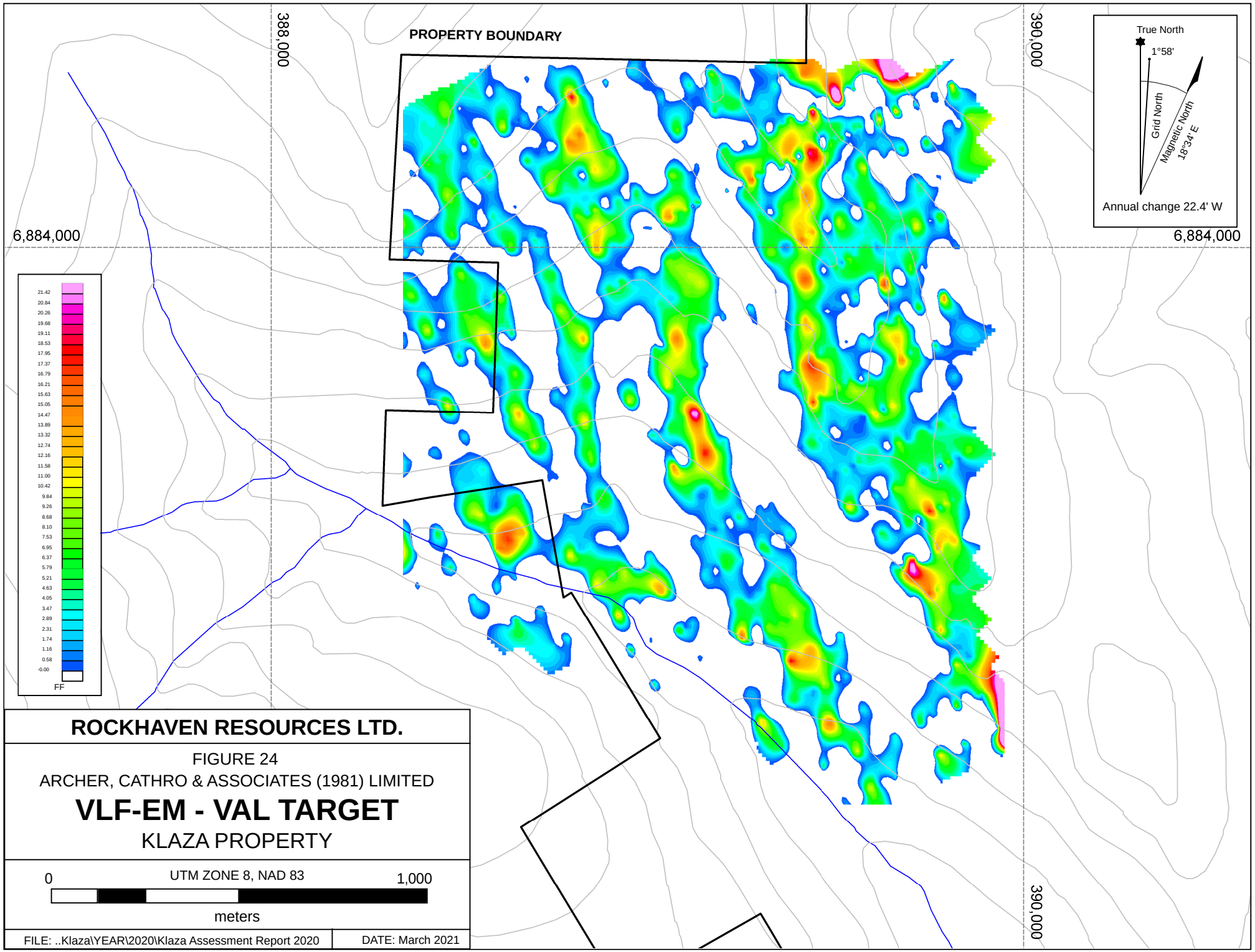
KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

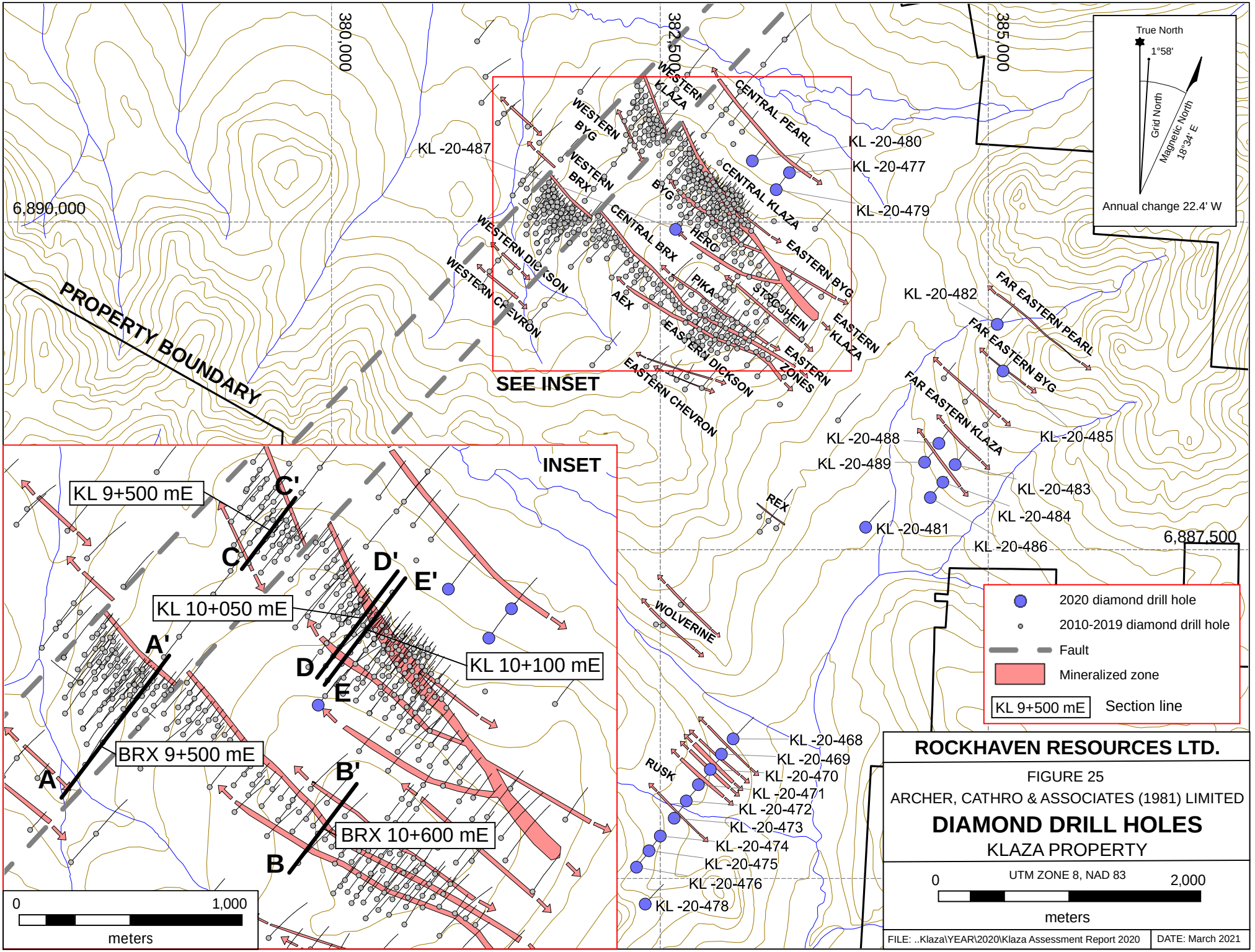
VLF-EM - VAL TARGET

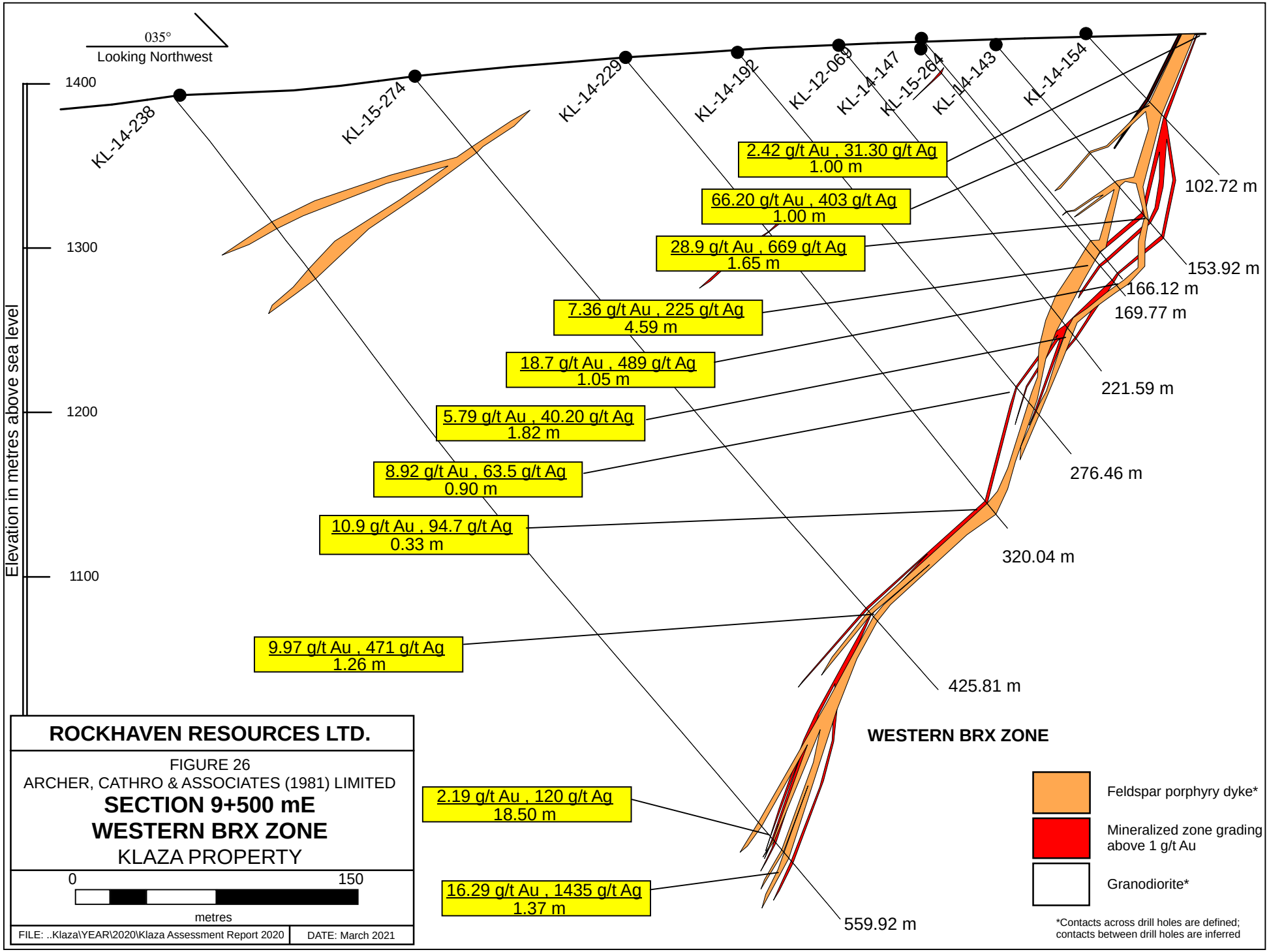
KLAZA PROPERTY

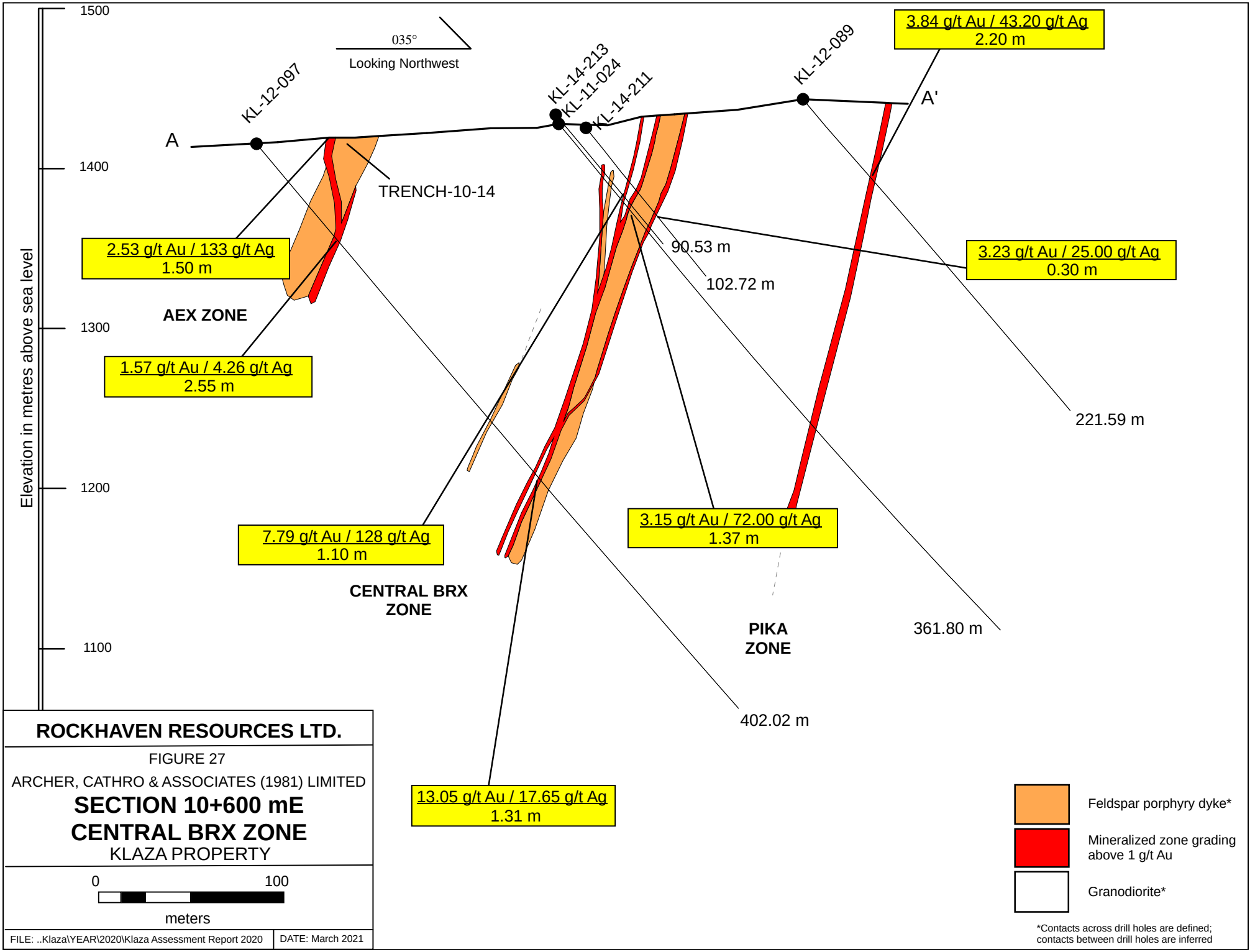
0 UTM ZONE 8, NAD 83 1,000

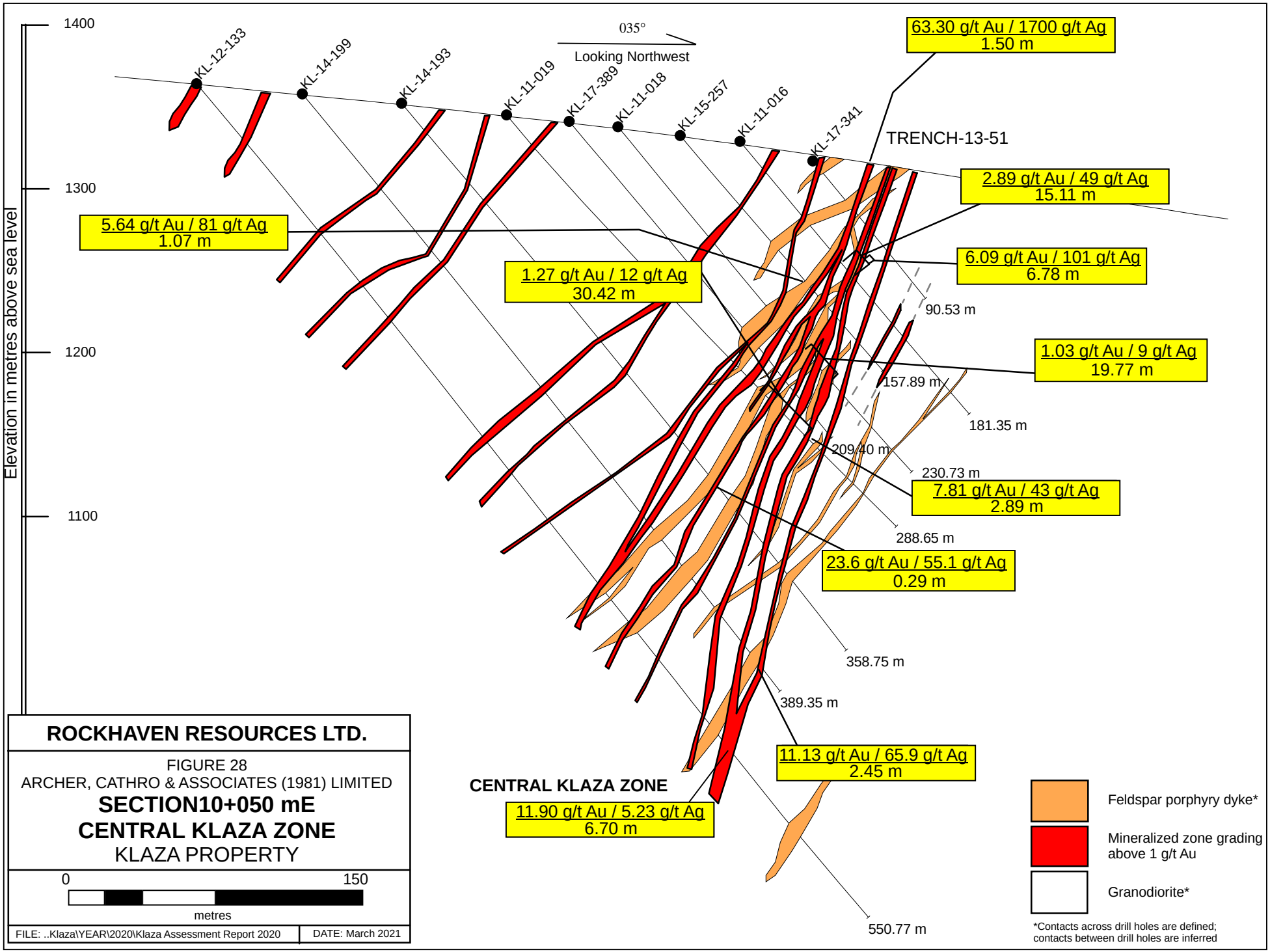
meters

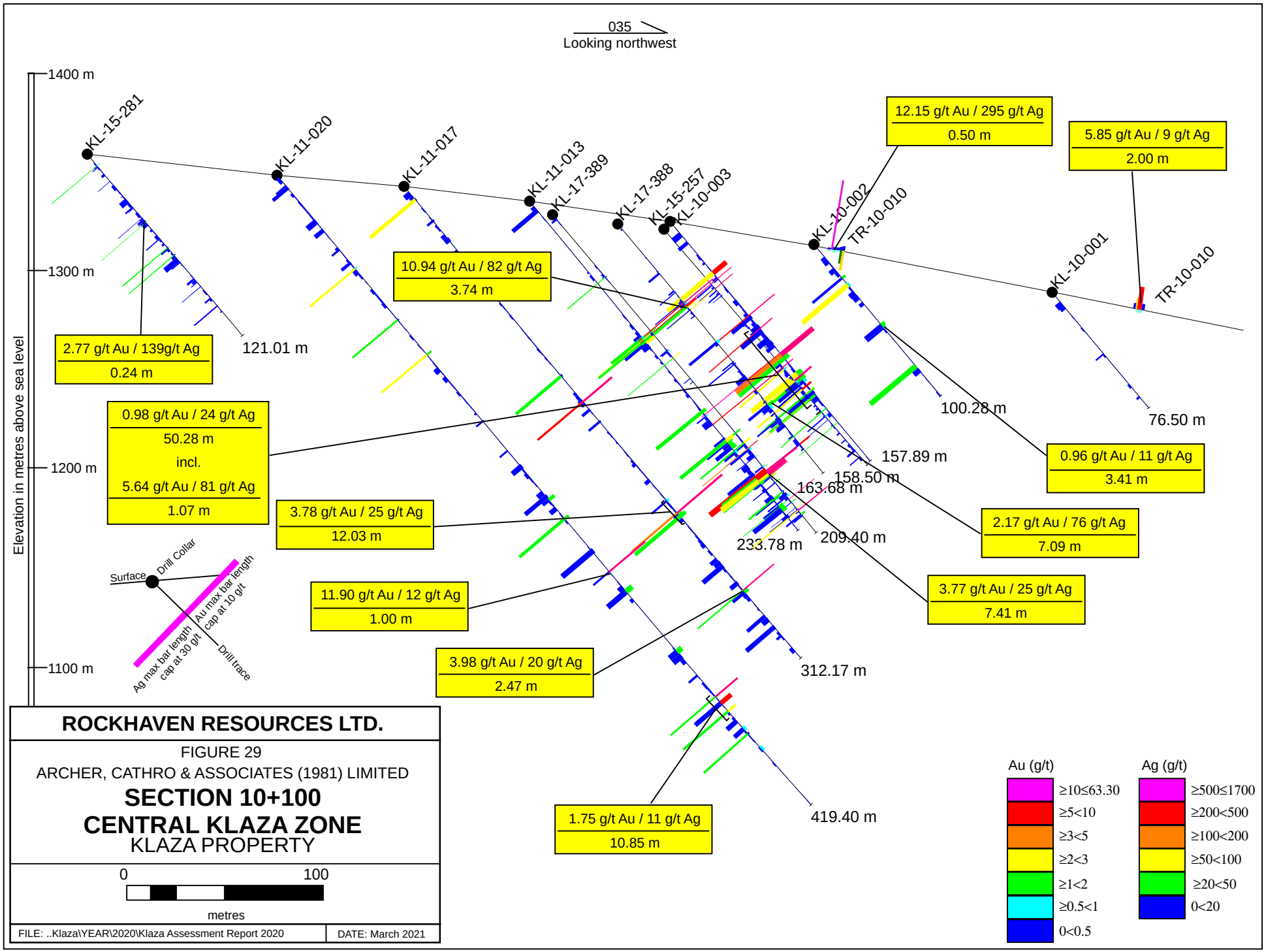
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020 | DATE: March 2021


380,000
382,500
385,000
6,890,000
6,887,500
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
PROPERTY BOUNDARY
SEE INSET
INSET
WESTERN KLAZA
CENTRAL PEARL
WESTERN BYG
WESTERN BRX
CENTRAL KLAZA
CENTRAL BRX
EASTERN BYG
WESTERN DICKSON
WESTERN CHEVRON
HERC
PIKA
STACCHEIN
AEX
EASTERN KLAZA
EASTERN DICKSON
EASTERN ZONES
EASTERN CHEVRON
FAR EASTERN PEARL
FAR EASTERN BYG
FAR EASTERN KLAZA
REX
WOLVERINE
RUSK
KL -20-487
KL -20-480
KL -20-477
KL -20-479
KL -20-482
KL -20-488
KL -20-489
KL -20-485
KL -20-483
KL -20-484
KL -20-481
KL -20-486
KL -20-468
KL -20-469
KL -20-470
KL -20-471
KL -20-472
KL -20-473
KL -20-474
KL -20-475
KL -20-476
KL -20-478
KL 9+500 mE
KL 10+050 mE
KL 10+100 mE
BRX 9+500 mE
BRX 10+600 mE
A
A'
B
B'
C
C'
D
D'
E
E'
0
1,000
meters
2020 diamond drill hole
2010-2019 diamond drill hole
Fault
Mineralized zone
KL 9+500 mE
Section line
ROCKHAVEN RESOURCES LTD.
FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL HOLES
KLAZA PROPERTY
UTM ZONE 8, NAD 83
0
2,000
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


035°
Looking Northwest
1400
1300
1200
1100
Elevation in metres above sea level
KL-14-238
KL-15-274
KL-14-229
KL-14-192
KL-12-069
KL-14-147
KL-15-264
KL-14-143
KL-14-154
2.42 g/t Au , 31.30 g/t Ag
1.00 m
66.20 g/t Au , 403 g/t Ag
1.00 m
28.9 g/t Au , 669 g/t Ag
1.65 m
7.36 g/t Au , 225 g/t Ag
4.59 m
18.7 g/t Au , 489 g/t Ag
1.05 m
5.79 g/t Au , 40.20 g/t Ag
1.82 m
8.92 g/t Au , 63.5 g/t Ag
0.90 m
10.9 g/t Au , 94.7 g/t Ag
0.33 m
9.97 g/t Au , 471 g/t Ag
1.26 m
2.19 g/t Au , 120 g/t Ag
18.50 m
16.29 g/t Au , 1435 g/t Ag
1.37 m
102.72 m
153.92 m
166.12 m
169.77 m
221.59 m
276.46 m
320.04 m
425.81 m
559.92 m
WESTERN BRX ZONE
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 26
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 9+500 mE
WESTERN BRX ZONE
KLAZA PROPERTY
0
150
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021


1500
1400
1300
1200
1100
Elevation in metres above sea level
035°
Looking Northwest
KL-12-097
KL-14-213
KL-11-024
KL-14-211
KL-12-089
A
A'
TRENCH-10-14
3.84 g/t Au / 43.20 g/t Ag
2.20 m
2.53 g/t Au / 133 g/t Ag
1.50 m
AEX ZONE
90.53 m
102.72 m
3.23 g/t Au / 25.00 g/t Ag
0.30 m
1.57 g/t Au / 4.26 g/t Ag
2.55 m
221.59 m
7.79 g/t Au / 128 g/t Ag
1.10 m
3.15 g/t Au / 72.00 g/t Ag
1.37 m
CENTRAL BRX
ZONE
PIKA
ZONE
361.80 m
402.02 m
13.05 g/t Au / 17.65 g/t Ag
1.31 m
ROCKHAVEN RESOURCES LTD.
FIGURE 27
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 10+600 mE
CENTRAL BRX ZONE
KLAZA PROPERTY
0
100
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred


Elevation in metres above sea level
1400
1300
1200
1100
035°
Looking Northwest
KL-12-133
KL-14-199
KL-14-193
KL-11-019
KL-17-389
KL-11-018
KL-15-257
KL-11-016
KL-17-341
TRENCH-13-51
63.30 g/t Au / 1700 g/t Ag
1.50 m
2.89 g/t Au / 49 g/t Ag
15.11 m
5.64 g/t Au / 81 g/t Ag
1.07 m
6.09 g/t Au / 101 g/t Ag
6.78 m
1.27 g/t Au / 12 g/t Ag
30.42 m
90.53 m
1.03 g/t Au / 9 g/t Ag
19.77 m
157.89 m
181.35 m
209.40 m
230.73 m
7.81 g/t Au / 43 g/t Ag
2.89 m
288.65 m
23.6 g/t Au / 55.1 g/t Ag
0.29 m
358.75 m
389.35 m
11.13 g/t Au / 65.9 g/t Ag
2.45 m
CENTRAL KLAZA ZONE
11.90 g/t Au / 5.23 g/t Ag
6.70 m
550.77 m
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred
ROCKHAVEN RESOURCES LTD.
FIGURE 28
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION10+050 mE
CENTRAL KLAZA ZONE
KLAZA PROPERTY
0
150
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 29

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SECTION 10+100
CENTRAL KLAZA ZONE
KLAZA PROPERTY

0 100

metres

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020 | DATE: March 2021

KL-20-487
KL-15-285
KL-16-308
KL-15-265
KL-11-031
KL-11-027
KL-17-387
KL-11-025
KL-16-338
KL-16-318

8.56 g/t Au / 77.0 g/t Ag
1.94 m

4.22 g/t Au / 75.0 g/t Ag
6.27 m

33.20 g/t Au / 957 g/t Ag
0.56 m

7.48 g/t Au / 445 g/t Ag
1.01 m

5.51g/t Au / 141 g/t Ag
2.95 m

116.00 m

113.00 m

181.97 m

199.94 m

260.91 m

27.4 g/t Au / 549 g/t Ag
0.79 m

5.07 g/t Au / 98.0 g/t Ag
1.01 m

4.68g/t Au / 303 g/t Ag
0.55 m

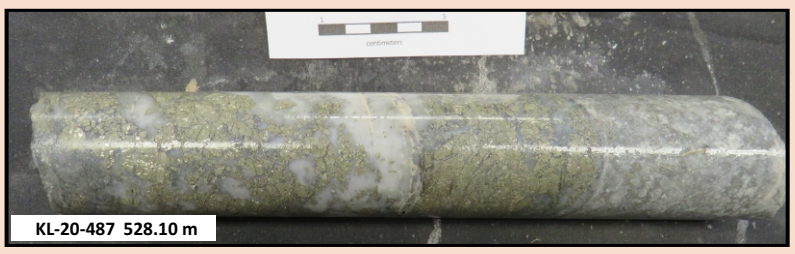
6.71g/t Au / 0.54 g/t Ag
2.44 m

Klaza Zone Vein Corridor

410.20 m

494.69 m

6.71g/t Au / 0.54 g/t Ag
2.44 m



3.18g/t Au / 43.52 g/t Ag
2.00 m

2.13 g/t Au / 382 g/t Ag
0.40 m

1.55 g/t Au / 182 g/t Ag
1.00 m



Au (g/t)		Ag (g/t)	
≥ 10	≤ 33.2	≥ 500	≤ 957
≥ 5.0	≤ 10.0	≥ 200	≤ 500
≥ 3.0	≤ 5.0	≥ 100	≤ 200
≥ 2.0	≤ 3.0	≥ 50	≤ 100
≥ 1.0	≤ 2.0	≥ 20	≤ 50
≥ 0.5	≤ 1.0	≥ 0	≤ 20
≥ 0	≤ 0.5		

Drill Collar
Surface
Gold
Silver
Drill Trace

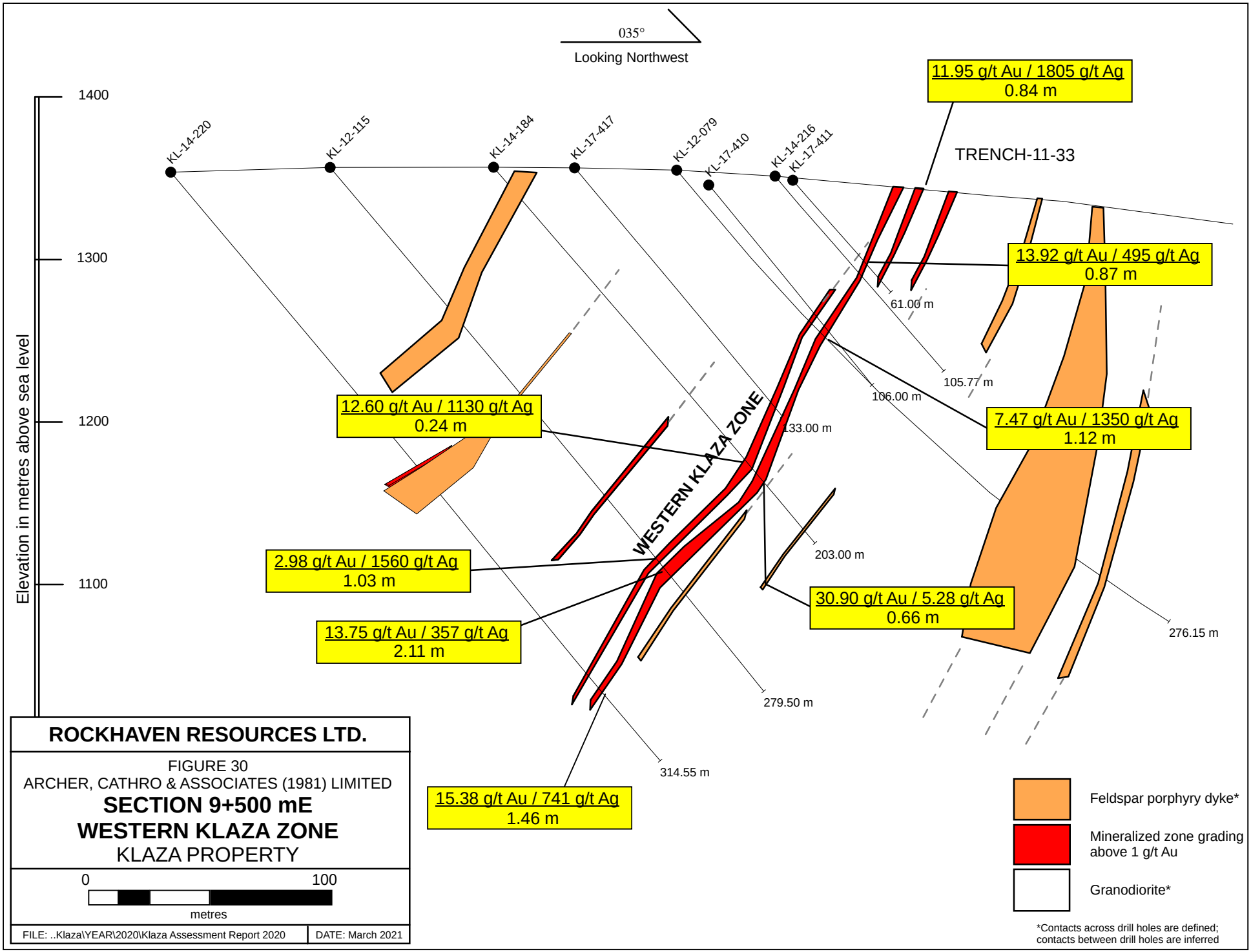
857.69 m

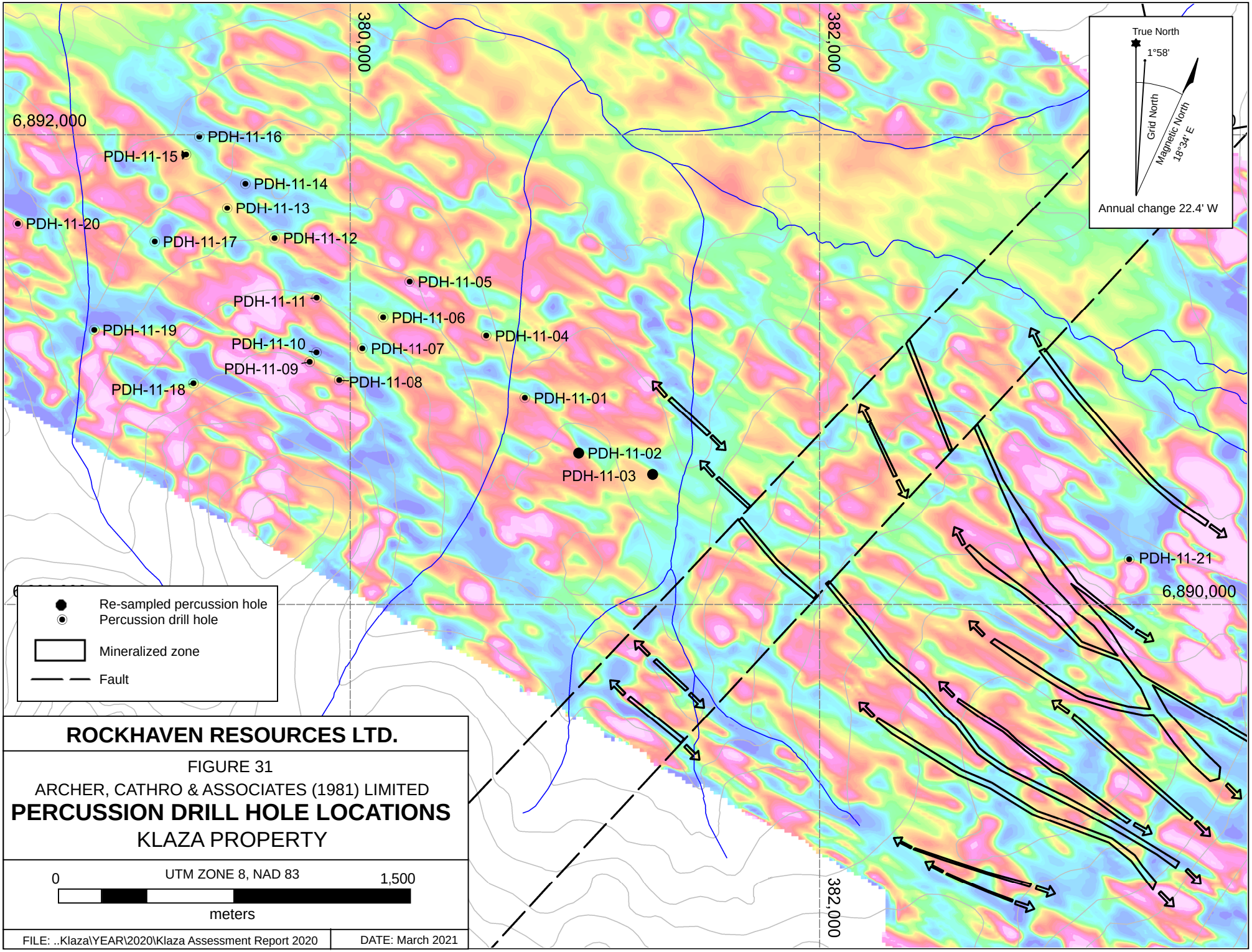
Figure 29
Section 10+150 m E - Central Klaza Zone

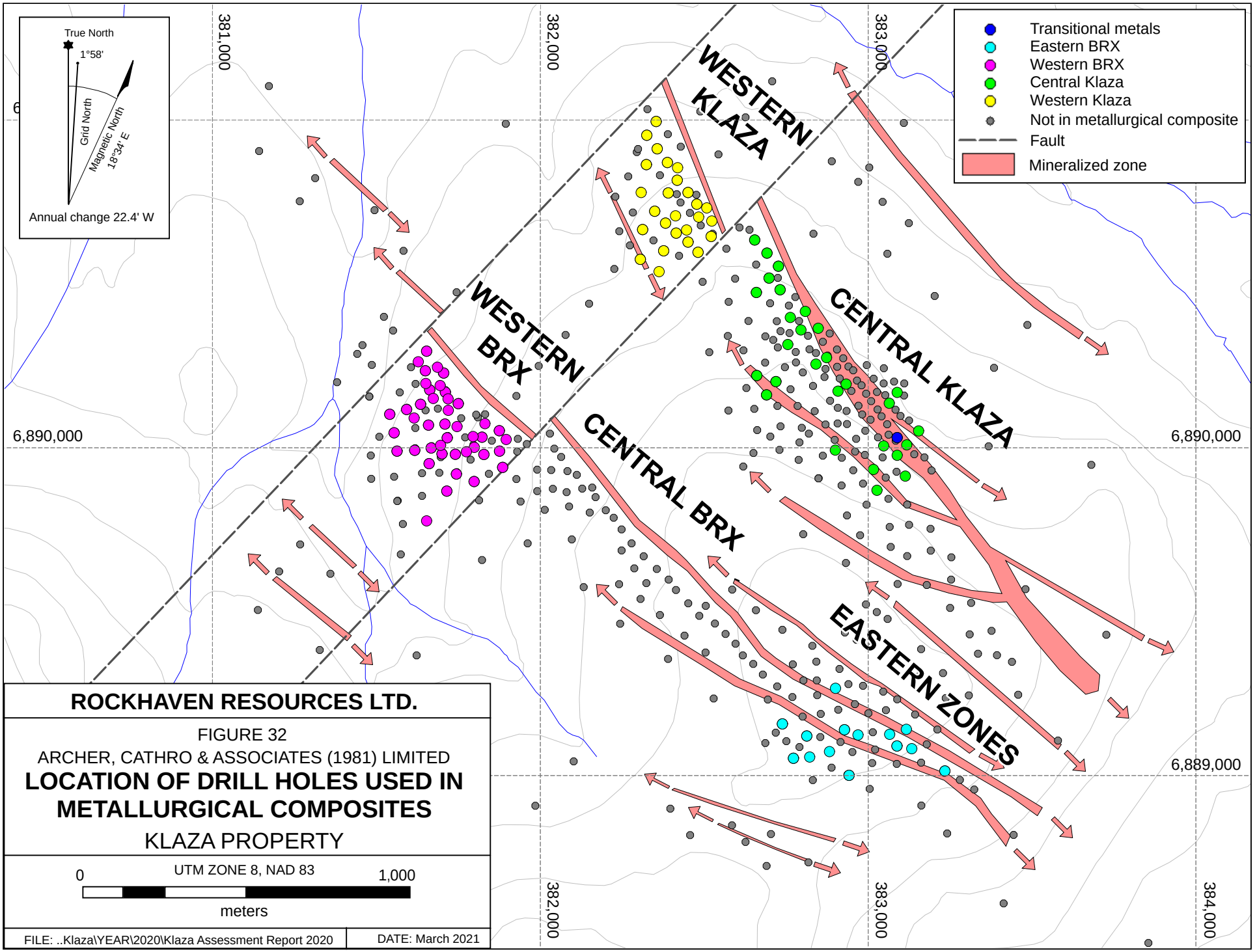
035°

100 m

Rockhaven
RESOURCES LTD.


035°
Looking Northwest
Elevation in metres above sea level
1400
1300
1200
1100
KL-14-220
KL-12-115
KL-14-184
KL-17-417
KL-12-079
KL-17-410
KL-14-216
KL-17-411
TRENCH-11-33
11.95 g/t Au / 1805 g/t Ag
0.84 m
13.92 g/t Au / 495 g/t Ag
0.87 m
61.00 m
105.77 m
106.00 m
12.60 g/t Au / 1130 g/t Ag
0.24 m
7.47 g/t Au / 1350 g/t Ag
1.12 m
133.00 m
WESTERN KLAZA ZONE
2.98 g/t Au / 1560 g/t Ag
1.03 m
203.00 m
30.90 g/t Au / 5.28 g/t Ag
0.66 m
13.75 g/t Au / 357 g/t Ag
2.11 m
276.15 m
279.50 m
314.55 m
15.38 g/t Au / 741 g/t Ag
1.46 m
ROCKHAVEN RESOURCES LTD.
FIGURE 30
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SECTION 9+500 mE
WESTERN KLAZA ZONE
KLAZA PROPERTY
0
100
metres
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021
Feldspar porphyry dyke*
Mineralized zone grading above 1 g/t Au
Granodiorite*
*Contacts across drill holes are defined; contacts between drill holes are inferred


380,000
382,000
6,892,000
6,890,000
PDH-11-16
PDH-11-15
PDH-11-14
PDH-11-13
PDH-11-20
PDH-11-17
PDH-11-12
PDH-11-05
PDH-11-11
PDH-11-06
PDH-11-19
PDH-11-04
PDH-11-10
PDH-11-07
PDH-11-09
PDH-11-18
PDH-11-08
PDH-11-01
PDH-11-02
PDH-11-03
PDH-11-21
True North
1°58'
Grid North
Magnetic North
18°34' E
Annual change 22.4' W
Re-sampled percussion hole
Percussion drill hole
Mineralized zone
Fault
ROCKHAVEN RESOURCES LTD.
FIGURE 31
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PERCUSSION DRILL HOLE LOCATIONS
KLAZA PROPERTY
0
UTM ZONE 8, NAD 83
1,500
meters
FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020
DATE: March 2021



ROCKHAVEN RESOURCES LTD.

FIGURE 32

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LOCATION OF DRILL HOLES USED IN METALLURGICAL COMPOSITES

KLAZA PROPERTY

0 UTM ZONE 8, NAD 83 1,000

meters

FILE: ..Klaza\YEAR\2020\Klaza Assessment Report 2020

DATE: March 2021