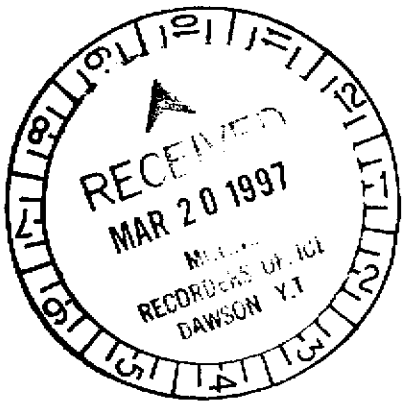
093631 pt 1 of 4

ASSESSMENT REPORT

on the

BDM, EEL, ELE, FLEE, LEE Claims

Dawson Mining District
N.T.S. 116 B/1
Latitude: 64°02'
Longitude: 138°15'



Owned by: VLB Resource Corporation
Bag 5040
Dawson City, Yukon Y0B 1G0
403-993-6057 (phone)
403-993-5606 (fax)

R. Diment
March 15, 1997

Volume I of II

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of $ 287,075.

for Regional Manager, Exploration and
Geological Services for Commissioner
Yukon Territory.

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INTRODUCTION

1.1 Introductory Statement

The Brewery Creek project is a low grade bulk tonnage gold deposit located 57 km due east of Dawson City, Yukon (See Figure 1). The property consists of 717 contiguous quartz claims and 76 mining leases covering 12,795 hectares and is owned and operated by VLB Resource Corporation, a wholly owned subsidiary of Viceroy Resource Corporation.

Since the initial discovery of gold in 1987 in excess of $20 million has been spent on deposit definition, metallurgical testwork, mine planning, environmental baseline studies and permitting. To date, geological reserves of 24.298 million tonnes averaging 1.46 g/tonne Au are contained within 10 near surface deposits along a 7 km trend. This global resource contains an oxidised portion, amenable to heap leaching, of 19.754 million tonnes averaging 1.45 g/tonne Au. Issuance of a Class A Water Licence from the Department of Indian and Northern Affairs (DIAND) in August of 1995, facilitated the commencement of haul road and pad construction, mining and stockpiling of ore. Mining and construction continued from May through October of 1996 with the first gold production realised on November 15, 1996.

This report summarises the exploration work conducted between July 1st and November 15th of 1996 and puts forward recommendations for future work in 1997. Although mining development infill drilling and geotechnical trenching also took place on the lease during this period, no attempt is made to discuss the procedures and results of this work in this report. The property geology and the deposit setting have also been revised to better reflect the new styles of mineralization discovered and geological data compiled during the 1996 field program.

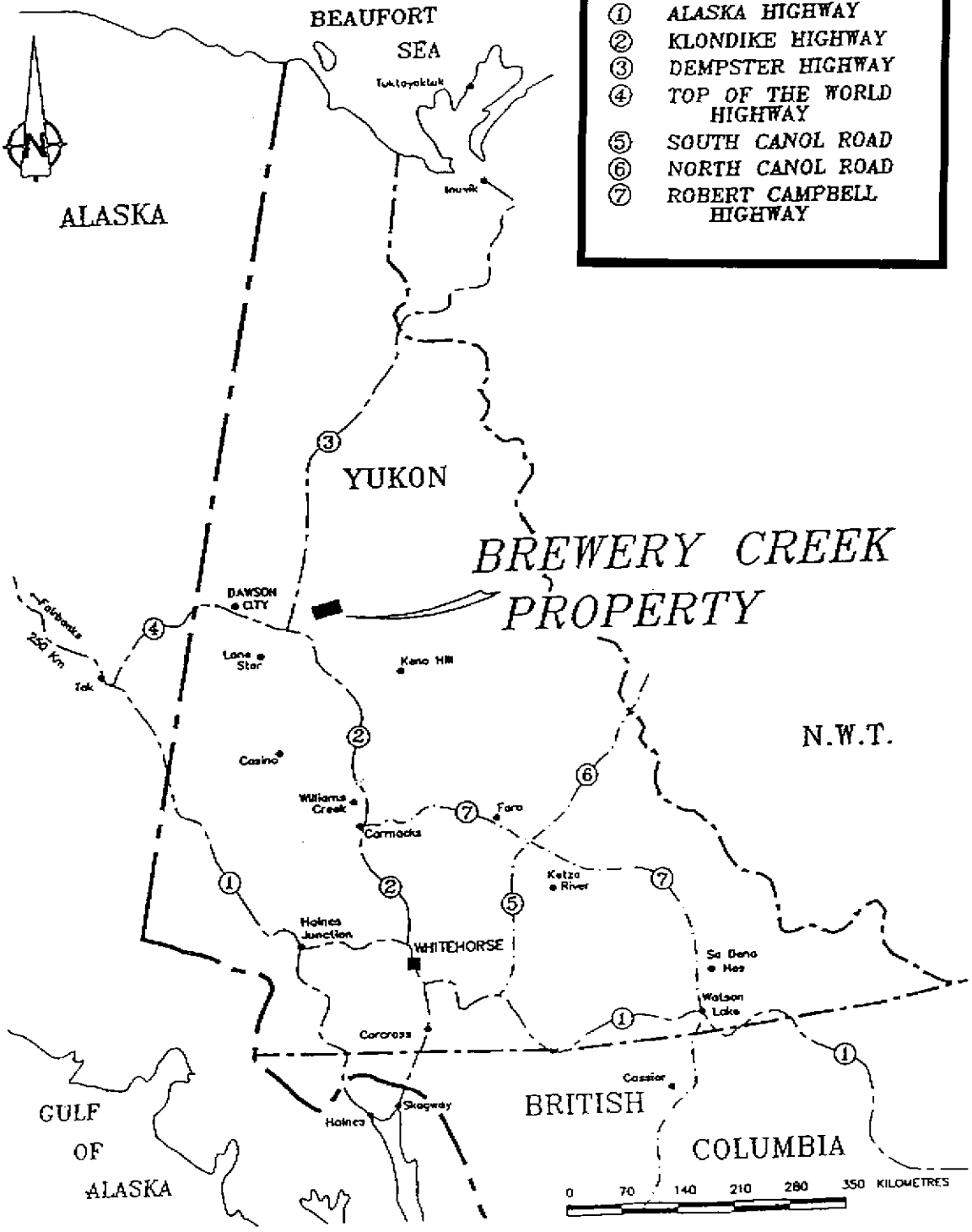
1.2 Location and Access

The project is located 55 km due east of Dawson City, Yukon on NTS map sheet 116B/1at latitude 64°02' N and Longitude 138°15' W (See Figure 2). Road access from Dawson City is 40 km east on the paved Klondike Highway; 7 km north on the all-weather gravel Dempster Highway; eastward for 20 km on the upgraded 2WD "Ditch Road" to the southwestern edge of the property; and finally another 6 km to the mine site on a company road.

The Ditch Road was built in 1928 to service a water diversion project which supplied hydroelectric power to the dredges in the placer gold fields. This 20 km stretch of road was upgraded during the summer of 1996 to Yukon Territorial Government standards. There are two river crossings. The first, across the North Klondike River and the second, across Lee Creek have bridges with weight limits of >50,000 kg.

The company road was built by Noranda Exploration Company Limited (Norex) in 1989 and since then has been steadily upgraded. In 1994 the road was realigned and constructed to required standards for a drive- to mine facility from Dawson City.

During 1995 and 1996 funding of $2.479 million from the YSIP program of the Economic Development Department of YTG was utilised to upgrade the Ditch Road. This upgrading has reduced travel time from Dawson to the mine site to approximately 50 minutes.



MCEWEN RESOURCE CORPORATION	**BREWERY CREEK PROPERTY LOCATION MAP**	DRAWN BY:	SCALE:
		DATA BY:	MAP INDEX:
		DATE: **FEB/1997**	FIGURE: **Figure 1**

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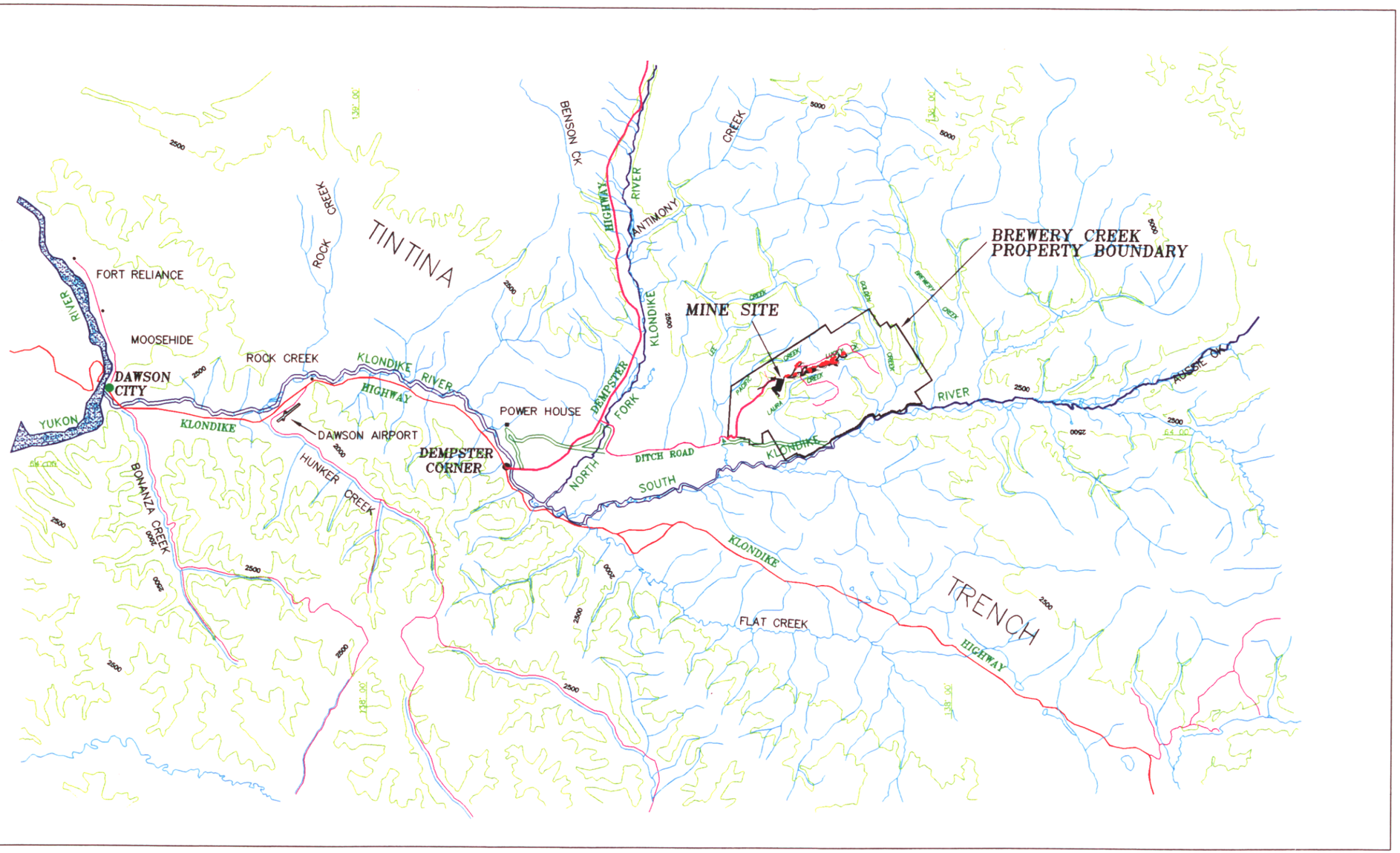


LEGEND

- 4 WHEEL DRIVE ROADS
- ALL WEATHER ROADS
- PAVED ROAD

0 20

SCALE (Km)

CONTOUR INTERVAL: 500 FEET

VICEROY RESOURCE CORPORATION

BREWERY CREEK PROJECT, YUKON
REGIONAL LOCATION MAP

093601 1/4 (1)

DRAWN BY:	DWG SCALE:
DATA BY:	MAP INDEX NO.: I-1-2-A
DATE: FEB/11/97	PLATE NO.: Figure 2

CADD FILE DIR. C:\AADATA\ACAD13\BREW\GEO GENERAL\I-1-2-A

1.3 Physiography & Vegetation

The property is located in the foothills of the Olgivie Mountains, with elevations ranging between 540 and 1225 metres above sea level. Despite low elevations relief on the property is moderately steep, characterised by V-shaped valleys cutting a gently rolling upland rising from the Tintina Valley. The area escaped the latest glacial advances; thus oxidation of surface rocks is extensive, extending down to a depth of 50 metres. Natural outcrop is less than 1%, and is restricted to chert forming the steeper ridge tops on the property.

Vegetation on the property consists of four main types. The higher elevations (above 1050 metres) consist of rounded hills covered with sub-alpine shrubs, grasses and widely spaced coniferous trees. Steep north facing slopes and narrow valley floors are covered with thick blankets of moss with thickets of slope alder and stunted spruce. Steep south facing slopes have two distinct styles of vegetation; coniferous trees with abundant undergrowth and areas of deciduous aspen, poplar and birch with little or no undergrowth.

All north facing slopes and valley bottoms are influenced by permafrost. Areas of gentle topography, especially NW facing slopes, and gullies contain loess (fine wind blown silt) up to 17 metres thick.

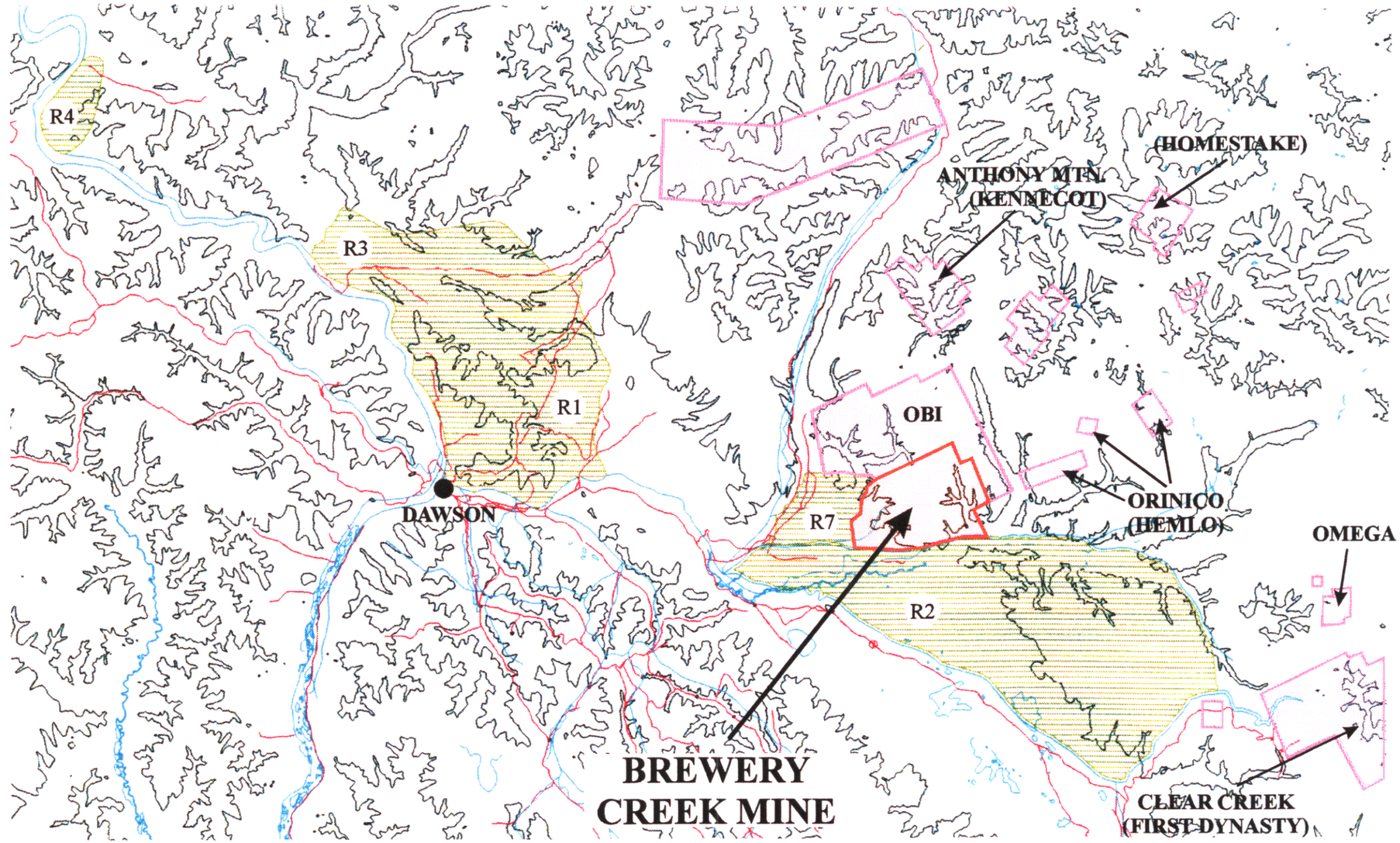
1.4 Regional Exploration History

The following is a brief discussion of regional exploration that has been conducted in the Brewery Creek area over the past 10 years. For a reference, a regional land tenure status map showing the location of current quartz claims with respect to the Brewery Creek Property is presented in Figure 3.

There is no recorded history of hard rock exploration in the immediate vicinity of the property, although it is likely that drainages were tested for placer in the past. Laura Creek, which drains the central portion of the property, was staked for placer in 1988. These claims received little work and subsequently lapsed in June of 1992.

The Antimony Mountain area, located twenty to thirty kilometres north and east of the property has been the focus of several exploration projects between 1987 and 1991. These programs targeted precious metal anomalies associated with Cretaceous intrusive bodies. Antimony Mountain, one of the larger intrusive centres in the area, was staked by Total Energold. Key adjacent properties were also optioned. In 1989 they completed a summer long program which included drill testing. Results did not warrant a program in 1990. In the fall of 1995, Kennecott Canada optioned the property and added peripheral claims. They continue to hold the property and plan to conduct exploration work in 1997.

Norex conducted extensive reconnaissance work in Central Yukon in 1987, which led to the discovery of the Brewery Creek Deposit. Other claims staked by Norex include the Ida-Oro, Aus, Bear, and Ham claims ten to thirty kilometres north-east of the property. Work on these claims consisted of mapping, soil sampling, geophysics and trenching. Results from all these properties did not warrant drill testing and subsequently did not receive further work for three years. In 1995, Orinoco Minerals optioned the Aus and Ida-Oro claims from Battle Mountain Gold Company Ltd.(formerly Hemlo Gold Mines Ltd. - Norex) and conducted Kubota backhoe trenching in 1995. Follow-up diamond drilling was conducted in 1996. Results from these programs returned intersections as high as 20 g/t Au over narrow widths (less than a metre) within arsenopyrite rich quartz veins. Orinoco plans to conduct more work in 1997.



LEGEND

- Quartz Claims
- First Nation Land Claims

0 50

Scale(Km)

BREWERY CREEK PROPERTY
REGIONAL LAND TENURE STATUS MAP

DRAWN BY:	R.D.	SCALE:	
DIGITIZED BY:	K.T.	MAP INDEX:	BC_LOC
DATE:	FEB/15/1997	ISSUE:	3

093601 1/4 (2)

In the fall of 1996, 520914 B.C. Ltd. staked 900 contiguous quartz claims(OBI Claims) around the northern and eastern edges of the Brewery Creek claim block. According to an article in the January 2, 1997 edition of the George Cross Newsletter, the ground was staked on encouraging silt geochemistry, gossanous and structural features. The article also stated that Pacific Galleon Mining Corp. (VSE-PFC) was granted the exclusive right of first offer to acquire the OBI claims and if exercised, intend to carry out airborne geophysics, sampling and mapping in 1997.

1.5 Claim History

The initial claims were staked by Norex in 1987 to cover a reconnaissance geochemical anomaly. Further claims were staked in subsequent years to cover possible extensions of gold mineralization. The total number of claims staked is 795 which forms a contiguous block covering 12,795 hectares. In June of 1990 Loki Gold Corporation (Loki) entered into an option agreement with Norex and earned a 49% interest in the property by August of 1991. In June of 1993 the remaining 51% interest was purchased, giving Loki sole ownership of the property. Ownership of the claims were transferred from Loki to VLB Resource Corporation (a wholly owned subsidiary of Viceroy Resource Corporation) after a merger in May of 1996. At this same time 76 of the core claims, covering the deposit areas, mine facilities and heap leach pad area, were approved as mining leases. At present, 7 additional claims are mid-way through the process of being taken to lease. During the 1996 assessment filing, claims FLEE 33 and 34 were dropped from the claim block as they are totally covered by the mining leases. This brings the total number of claims and mining leases to 793. The details on claims and mining leases, including the current assessment status are listed in Tables 1 and 2, and a claim sketch map is included as Figure 4.

1.6 Work Program

The 1996 field program included soil sampling and mapping to better define anomalous trends east of known reserves , trenching and RC drilling to expand upon mineable oxide reserves outside deposit areas and diamond drilling to test for higher grade down dip sulphide mineralization. Statistics for the various types of work are listed in Table 3 below. Plate 1, a 1:15,000 property plan map shows the location of 1996 drill holes, trenches and survey grid work. Collar co-ordinates and significant assay results for all drill holes can be found in Appendix I. Significant results from the 1996 program are discussed in the section below.

Table 3 Summary Statistics of Work Completed in 1996

RC Drilling	53 holes for 3,472 m	Midnight Sun Drilling, Whitehorse YT
Diamond Drilling	16 holes for 2,528 m	Advanced Drilling, Surrey BC
Drill Pad Construction	69	Henry Gulch Placers, Dawson YT
Trenching	300m	Henry Gulch Placers, Dawson YT
Road Construction	10 km	Henry Gulch Placers, Dawson YT
Soil Sampling	145 line km	Viceroy International Exp. Inc.
Linecutting	27 line km	Twin Mountain Ent. Whitehorse YT
		Fireweed Helicopters, Dawson YT

Table 1

Status of claims after 1996 filing

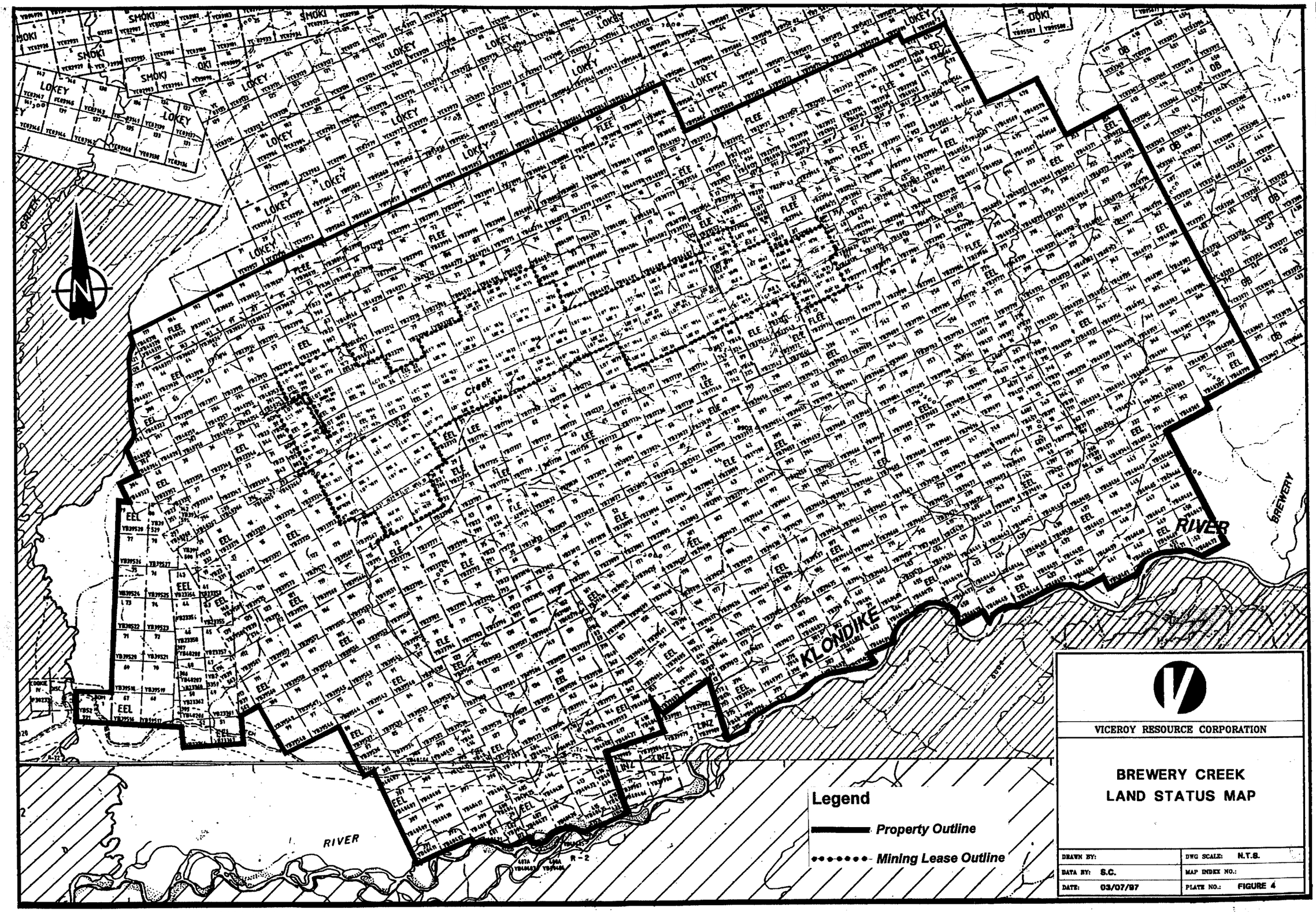
Sorted by new expiry date

Claim Name	*Fraction*	*Grant No.*	*No. of Units*	*new expiry date*
BDM 002-03	F	YB52881-82	2	October 26, 1997
BDM 001		YB52721	1	January 20, 2001
BDM 004-005	F	YB52883-84	2	January 20, 2001
EEL 313-352		YB40326-65	40	January 20, 2001
EEL 353-372		YB40371-90	20	January 20, 2001
EEL 373-384		YB40393-404	12	January 20, 2001
EEL 419-458		YB40439-78	40	January 20, 2001
EEL 461-464		YB40479-82	4	January 20, 2001
BDM 007-008	F	YB88625-26	2	January 20, 2002
EEL 279		YB40250	1	January 20, 2002
EEL 385-418		YB40405-38	34	January 20, 2003
EEL 407A-408A		YB40483-84	2	January 20, 2003
EEL 415A-416A		YB40485-86	2	January 20, 2003
EEL 465-470	F	YB45736-41	6	January 20, 2003
ELE 009		YB23549	1	January 20, 2008
FLEE 020		YB23942	1	January 20, 2008
FLEE 035		YB23957	1	January 20, 2008
EEL 067-115		YB39516-64	49	January 20, 2009
EEL 117-192		YB39566-641	76	January 20, 2009
EEL 195-274		YB39642-721	80	January 20, 2009
EEL 465-478		YB40557-570	14	January 20, 2009
EEL 275-277		YB40246-48	3	January 20, 2010
EEL 281-288		YB40252-59	8	January 20, 2010
EEL 293-297		YB40264-68	5	January 20, 2010
EEL 299-300		YB40321-22	2	January 20, 2010
EEL 301-303		YB40283-85	3	January 20, 2010
EEL 304		YB40323	1	January 20, 2010
EEL 305-307		YB40286-88	3	January 20, 2010
EEL 308-312		YB40366-70	5	January 20, 2010
FLEE 091-95	F	YB40131-35	5	January 20, 2010
FLEE 098-104	F	YB40139-45	7	January 20, 2010
FLEE 105-117		YB40270-82	13	January 20, 2010
FLEE 118-121		YB40317-20	4	January 20, 2010
LEE 047		YB17714	1	January 20, 2010
LEE 088-89		YB40324-25	2	January 20, 2010
EEL 001		YB23313	1	January 20, 2012
EEL 011-20		YB23323-32	10	January 20, 2012
EEL 031-52		YB23343-64	22	January 20, 2012
EEL 053-66		YB23907-20	14	January 20, 2012
ELE 001-04		YB23541-44	4	January 20, 2012
ELE 011-16		YB23551-56	6	January 20, 2012
ELE 021-80		YB23777-836	60	January 20, 2012
FLEE 001-19		YB23923-41	19	January 20, 2012
FLEE 021-32		YB23943-54	12	January 20, 2012
FLEE 037		YB23959	1	January 20, 2012
FLEE 039-50		YB23961-72	12	January 20, 2012
FLEE 052		YB23974	1	January 20, 2012
FLEE 054-78		YB23976-24000	25	January 20, 2012
FLEE 079-104		YB30004-29	26	January 20, 2012
LEE 077-82		YB23207-12	6	January 20, 2012
LEE 083-85		YB38729-31	3	January 20, 2012
LEE 002		YB04487	1	January 20, 2013
LEE 004		YB04489	1	January 20, 2013
LEE 006		YB04491	1	January 20, 2013
LEE 008		YB04493	1	January 20, 2013
LEE 010		YB04495	1	January 20, 2013
LEE 017-26		YB04502-11	10	January 20, 2013
LEE 028		YB04513	1	January 20, 2013
LEE 030		YB04515	1	January 20, 2013
LEE 032		YB04517	1	January 20, 2013
LEE 037		YB17704	1	January 20, 2014
LEE 039		YB17706	1	January 20, 2014
LEE 041		YB17708	1	January 20, 2014
LEE 043		YB17710	1	January 20, 2014
LEE 045		YB17712	1	January 20, 2014
LEE 057-76		YB17724-43	20	January 20, 2014
			717	

Table 2
Mining Leases

sorted by Lot #

Claim Name	Fraction	Grant No.	Lease	Lot #	expiry date
EEL 021		YB23333	x	1000	May 31, 2016
EEL 022		YB23334	x	1001	May 31, 2016
EEL 024		YB23336	x	1002	May 31, 2016
EEL 023		YB23335	x	1003	May 31, 2016
EEL 025		YB23337	x	1004	May 31, 2016
EEL 026		YB23338	x	1005	May 31, 2016
EEL 028		YB23340	x	1006	May 31, 2016
EEL 027		YB23339	x	1007	May 31, 2016
EEL 029		YB23341	x	1008	May 31, 2016
EEL 030		YB23342	x	1009	May 31, 2016
EEL 280		YB40251	x	1010	May 31, 2016
EEL 278		YB40249	x	1011	May 31, 2016
EEL 298	F	YB40269	x	1012	May 31, 2016
EEL 002		YB23314	x	1013	May 31, 2016
EEL 004		YB23316	x	1014	May 31, 2016
EEL 003		YB23315	x	1015	May 31, 2016
EEL 005		YB23317	x	1016	May 31, 2016
EEL 006		YB23318	x	1017	May 31, 2016
EEL 008		YB23320	x	1018	May 31, 2016
EEL 007		YB23319	x	1019	May 31, 2016
EEL 009		YB23321	x	1020	May 31, 2016
EEL 010		YB23322	x	1021	May 31, 2016
EEL 292		YB40263	x	1022	May 31, 2016
EEL 291		YB40262	x	1023	May 31, 2016
EEL 290		YB40261	x	1024	May 31, 2016
EEL 116		YB39565	x	1025	May 31, 2016
EEL 289		YB40260	x	1026	May 31, 2016
ELE 020		YB23776	x	1027	May 31, 2016
ELE 019		YB23775	x	1028	May 31, 2016
ELE 018		YB23774	x	1029	May 31, 2016
LEE 034		YB17701	x	1030	May 31, 2016
LEE 033		YB17700	x	1031	May 31, 2016
LEE 038		YB17705	x	1032	May 31, 2016
LEE 036		YB17703	x	1033	May 31, 2016
LEE 035		YB17702	x	1034	May 31, 2016
LEE 040		YB17707	x	1035	May 31, 2016
LEE 016		YB04501	x	1036	May 31, 2016
LEE 015		YB04500	x	1037	May 31, 2016
LEE 042		YB17709	x	1038	May 31, 2016
LEE 014		YB04499	x	1039	May 31, 2016
LEE 013		YB04498	x	1040	May 31, 2016
LEE 044		YB17711	x	1041	May 31, 2016
LEE 011		YB04496	x	1042	May 31, 2016
LEE 046		YB17713	x	1043	May 31, 2016
LEE 009		YB04494	x	1044	May 31, 2016
LEE 048		YB17715	x	1045	May 31, 2016
LEE 007		YB04492	x	1046	May 31, 2016
LEE 050		YB17717	x	1047	May 31, 2016
LEE 049		YB17716	x	1048	May 31, 2016
LEE 005		YB04490	x	1049	May 31, 2016
LEE 052		YB17719	x	1050	May 31, 2016
LEE 051		YB17718	x	1051	May 31, 2016
LEE 003		YB04488	x	1052	May 31, 2016
LEE 054		YB17721	x	1053	May 31, 2016
LEE 053		YB17720	x	1054	May 31, 2016
ELE 017		YB23773	x	1055	May 31, 2016
LEE 001		YB04486	x	1056	May 31, 2016
LEE 056		YB17723	x	1057	May 31, 2016
LEE 055		YB17722	x	1058	May 31, 2016
ELE 006		YB23546	x	1059	May 31, 2016
ELE 008		YB23548	x	1060	May 31, 2016
ELE 010		YB23550	x	1061	May 31, 2016
ELE 007		YB23547	x	1062	May 31, 2016
ELE 005		YB23545	x	1063	May 31, 2016
FLEE 051		YB23973	x	1066	May 31, 2016
FLEE 097	F	YB40137	x	1067	May 31, 2016
FLEE 036		YB23958	x	1068	May 31, 2016
FLEE 038		YB23960	x	1070	May 31, 2016
FLEE 096	F	YB40136	x	1071	May 31, 2016
FLEE 053		YB23975	x	1072	May 31, 2016
LEE 031		YB04516	x	1073	May 31, 2016
LEE 029		YB04514	x	1074	May 31, 2016
LEE 027		YB04512	x	1075	May 31, 2016
LEE 012		YB04497	x	1076	May 31, 2016
LEE 087	F	YB38733	x	1077	May 31, 2016
LEE 086	F	YB38732	x	1078	May 31, 2016



VICEROY RESOURCE CORPORATION

BREWERY CREEK
LAND STATUS MAP

DRAWN BY:	DWG SCALE: N.T.S.
DATA BY: S.C.	MAP INDEX NO.:
DATE: 03/07/97	PLATE NO.: FIGURE 4

1.6.1 Sample Preparation and Assay Procedures.

All exploration analyses were conducted by Chemex Labs from North Vancouver and the mine site assay lab. The table below lists all 1996 drill holes and soil samples with their corresponding assay lab.

Table 4. Drill Hole and Soil Sample Labs

1996 Sample Type	Assay Lab
RC96-1565 through RC96-1583 RC96-1585 RC96-1600 through RC 96-1618 RC96-1658 through RC96-1671 DD96-93 through DD96-105 All Soil Samples	Chemex Labs
RC 96-1619 through RC96-1624 DD96-85 through DD96-92 DD96-106 through DD96-107	Minesite assay lab

All trench, RC drill and core samples were prepared on site, consisting of drying, crushing to -1/4 inch and riffle splitting to obtain a 500 gram representative split. Rejects are stored on site. Analyses for all samples included fire assay for gold with an atomic absorption finish. Soil samples were also analysed by ICP scan for an additional 32 elements including Ag, As, Sb and Hg. A rigorous duplicate assay check was conducted on every even numbered RC hole at intervals ranging from 10-12m to 18-20m.

Detailed information from the 1996 exploration program are filed in the exploration office at the minesite, including drill and assay logs. All data has been entered into a PCXPLORE database and is currently being reformatted into SURPAC format.

CHAPTER TWO: GEOLOGY

2.1 Regional Geology

The Brewery Creek property is located within the foothills of the Ogilvie Mountains along the northeastern boundary of the Tintina Trench (Figure 5). The Tintina Trench forms an erosional valley approximately 15km wide which delineates the Mesozoic to Tertiary-aged Tintina Fault, now obscured by extensive unconsolidated deposits infilling the Klondike River Valley.

The Tintina Fault is a northwest trending regional scale transcurrent fault exhibiting dextral movement in the order of 450km. At the latitude of the Brewery Creek Property the fault juxtaposes late Proterozoic and Palaeozoic marginal basinal deposits of ancient North America (Selwyn Basin Stratigraphy) to the northeast and predominantly accreted terranes of various tectonic elements of the Canadian Cordillera (largely Klondike schist and allied rocks of the Yukon Tanana Terrane) on the southwest.

Selwyn Basin rocks northeast of the Tintina Trench have been imbricated by the Jura-Cretaceous Dawson, Tombstone and Robert Service Thrusts (Tempelman-Kluit, 1970). The Robert Service Thrust, extending from the Dempster Highway east-southeast through the Mayo map area, carries the bulk of Selwyn Basin rocks in its hanging wall, including those of the Brewery Creek property area. Hanging wall stratigraphy includes thick sequences (thousands of metres) of Lower Proterozoic Hyland Group, Cambrian Ordovician Road River and Devonian-Mississippian Earn Group sediments.

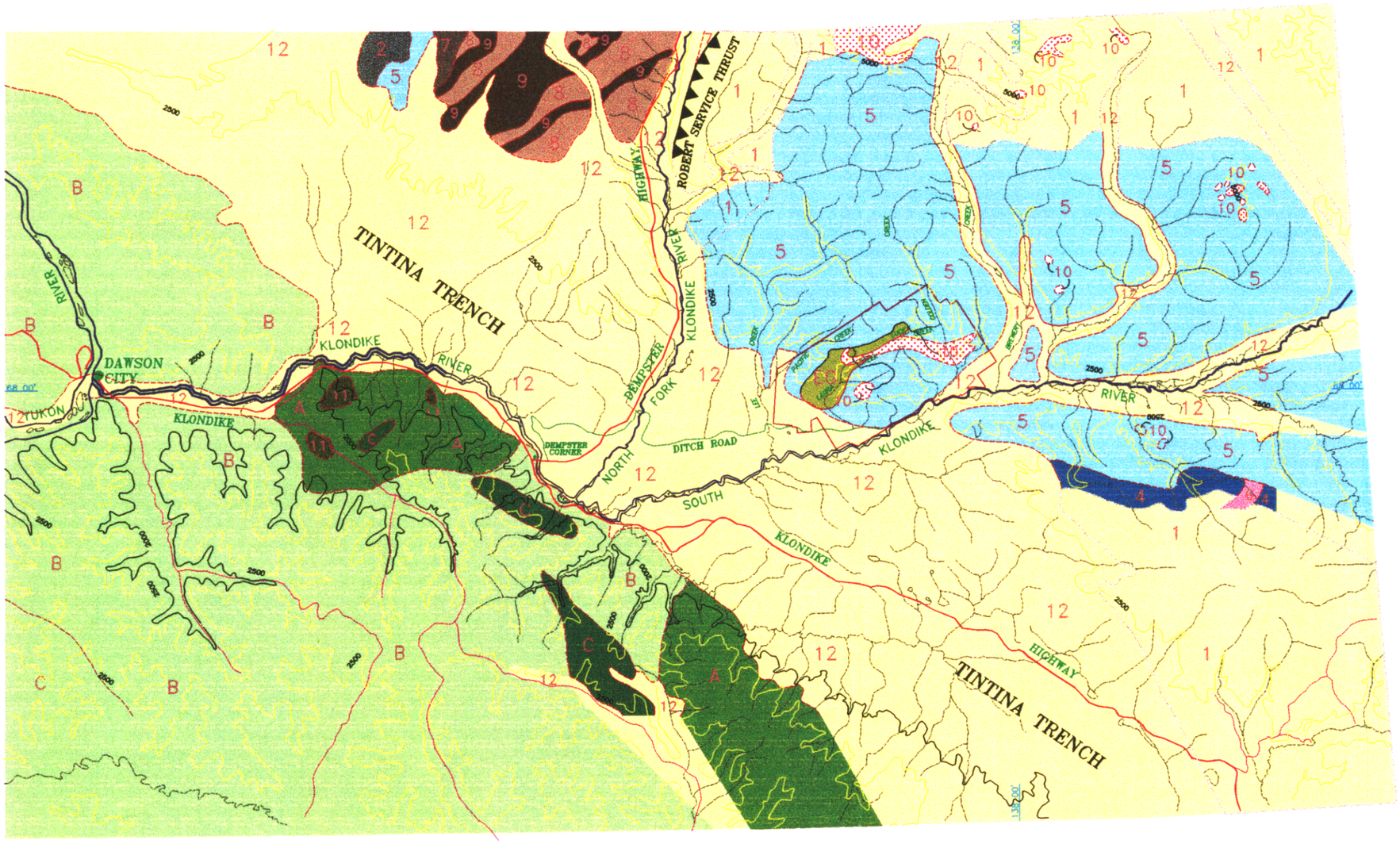
Hyland, Road River and Earn Group rocks are cut by Cretaceous intrusives forming a northwest-trending linear belt of widely spaced intermediate to siliceous stocks and plutons (locally referred to as the Tombstone Suite) which closely parallels the lateral extension of the Tintina Trench. Precious metal occurrences are commonly associated with the intrusives, either proximal to or within them, and considerable exploration effort has been directed at these rocks during the past 15 years.

2.2 Property Geology

Supracrustal rocks within the property boundaries are composed predominantly of Road River Group (Ordovician-Silurian) sediments overlain by siliciclastic rocks of the lower Earn Group (Devonian). The contact between these two has been the locus of WNW-trending, northeast-directed thrust faulting which has juxtaposed thin sequences of Road River Group (< 150m thick) against Earn Group. Age of thrusting is believed to be early Cretaceous, related to the earliest movement on the Tombstone Thrust 100km to the northeast.

Throughout much of the property, Cretaceous quartz monzonite has intruded Earn and Road River stratigraphy as a series of semi-conformable sills. Cretaceous biotite monzonite and syenite stock-like bodies also occur locally in the south central part of the property.

A 1:15,000 scale property geology map (modified by Loki staff after Bremner 1993) is included as Plate 2 and a detailed stratigraphic column is included as Table 5.



GEOLOGY LEGEND

QUATERNARY

- 12 — Unconsolidated glacial and alluvial deposits

TERTIARY

- Dark grey and brown andesite and basalt

CRETACEOUS

- Porphyritic hornblende/biotite syenite, diorite and quartz monzonite
- Diorite and gabbro
- 8 — Keno Hill Quartzite : massive grey and blue grey

JURASSIC

- Lower schist, dark grey argillite, slate, phyllite and quartzite
- 6 — Granite, granodiorite, quartz monzonite

DEVONIAN–MISSISSIPPIAN (EARN GROUP)

- EG — EARN GROUP : LOWER MEMBER : Argillite, shale and minor chert interbedded with bedded barite and andesite flows and tuffs; interbedded turbidite facies – shale, sandstone, greywacke and chert pebble conglomerate.

ORDOVICIAN TO SILURIAN

- 5 — Road River Formation : interbedded black chert, argillite and chert pebble conglomerate
- 4 — Grey limestone and dolomite

CAMBRIAN

- 3 — Grey to brown limestone

PRECAMBRIAN

- Dark brown to green volcanic rocks
- 1 — Buff brown gritty quartzite, sandstone quartz pebble conglomerate. Minor phyllites, slates, chert and limestone

METAMORPHIC ROCKS SOUTHWEST OF TINTINA TRENCH

- C — Reddish brown weathering, dark green serpentinized ultrabasic rocks
- B — Klondike Schist : green quartz muscovite – chlorite schist
- A — Nasina Series : grey micaceous quartzite, quartz–mica schist and biotite gneiss

SYMBOL LEGEND

- GEOLOGICAL BOUNDARY
- PROPERTY BOUNDARY

0 — 20
SCALE (Km)

VICEROY RESOURCE CORPORATION

BREWERY CREEK PROJECT, YUKON
REGIONAL GEOLOGY

093601 1/4 (3)

DRAWN BY:	DWG SCALE: 1:250,000
DATA BY:	MAP INDEX NO.: REG-GEOL-A
DATE: FEB/11/1997	PLATE NO.: Figure 5

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Table 5. Stratigraphic Column-- Brewery Creek Project, Yukon Territory, Canada

Age	Group	Formation	Geology Map Designation	Rock Code	Description
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Quartz Monzonite	K_{qm}	QM	**QUARTZ MONZONITE** High level sills of quartz monzonite with K-feldspar megacrysts up to 2 cm across and round quartz eyes, in a light gray aphanitic to fine grained intrusive rock containing biotite and hornblende. Host shale is friable and unmetamorphosed at contacts indicating emplacement above the zone of supercritical fluid (1.5 km approx.). Igneous contacts are sharp and delicately embayed; some contacts are slickensided and marked by zones of hydrothermal clay 0.5-15 cm wide which appear to be altered fault gouge. A clast from a subvolcanic intrusive breccia in the Fosters Zone with clasts of quartz-eye rhyolite in volcanic glass gave a similar whole rock age, as did loose biotite flakes separated from white clay in the Golden Zone clay trench.
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Biotite Monzonite	K_{bm}	BM	**BIOTITE MONZONITE** Dykes and sills of fine grained monzonite with about 50% dark minerals, mostly biotite. Varies considerably in colour from light to dark as a result of variations in mafic content. Some hornblende in places but biotite predominates. Strongly foliated at base due to alignment of biotite flakes. Dykes of this phase have been observed cutting the syenite. This unit has only been described from the panel south of Laura Creek. At the highest point in the Schooner Zone, fine grained tuffs have been hornfelsed above a sill of this unit to form a hard, white banded rock which resembles chert.
Cretaceous (91 Ma)	Tombstone Plutonic Suite	Syenite	K_{sy}	SY	**SYENITE** Large intrusion of medium to coarse grained syenite with trachytic texture (strongly aligned feldspar and hornblende crystals up to 2 cm, pegmatitic). Forms a major intrusion cutting tuffaceous sequence south and west of the Classic Zone, not seen elsewhere. In this area, limestone in contact with the syenite has formed a small amount of tremolite-epidote-diopside-garnet-skarn. Dykes of the pegmatitic phase cut Devonian tuff discordantly on a ridge south of the Classic Zone road.
Early-Mid Devonian	Earn Group	Portrait Lake Formation Upper Member	D_{Ptss}	TSS	**TUFFACEOUS SANDSTONE** Medium to light gray fine grained quartz sandstone with abundant tuffaceous material (sericitic). Sericitic material may be due to a primary volcanic component or weak hornfelsing from nearby biotite monzonite and syenite intrusives.
Early-Mid Devonian	Earn Group	Portrait Lake Formation Upper Member	D_{Pts}	TSH	**TUFFACEOUS SHALE** Dark gray to black, soft tuffaceous shale. Small (5 mm) sharp-crested asymmetric current ripples on some bedding surfaces. Looks like a distal turbidite sequence. Grades upward into tuffaceous sandstone described above.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D_{Pcg}	CPC	**CONGLOMERATE** Massive debris flow conglomerate, containing multicolored pebbles of Duo Lake Formation chert and occasional clasts of Hyland Group micaceous quartzite in a siliceous matrix. Clasts range up to about 4 cm in size and from rounded to angular. In this area the conglomerate seems to be emplaced within Steel Formation siltstone described below suggesting that the regional unconformity between the Earn and Road River Group was confined to local, confined rift zones (channels) at Brewery Creek.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D_{Pg}	GW	**GREYWACKE** Dark gray matrix supported greywacke. 1.0 mm-0.5 cm sub-angular clasts of chert, shale and argillite within a poorly sorted sandstone. Grades locally into chert pebble conglomerate.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D_{Pss}	SS	**SANDSTONE** Dark gray massive well sorted siliceous sandstone. Minor crude bedding planes. Grades downward into shale described below.
Early Devonian	Earn Group	Portrait Lake Formation Middle Clastic Member	D_{Ps}	SLT,SH	**SHALE, SILTSTONE** Fissile, gray to brown-weathering, non-calcareous fine grained shale; pin- striped and slightly burrowed silty shale. Interbedded with greywacke and sandstone lenses described above.
Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D_{pa}	ARG	**ARGILLITE** Black baritic shale and graphitic argillite.
Early - Devonian	Earn Group	Portrait Lake Formation Lower Member	D_{Pb}	BAR	**BARITE** Light gray laminated barite and minor interbedded felsic tuff. South of the Classic Zone road, laminated barite is associated with dark gray baritic limestone. Commonly interbedded with graphitic argillite and limestone described below. In the Nahanni Map Area conodont data from barite returned Mid to Late Devonian ages(Anderson, Gordey 1993). However at Brewery Creek baritic argillite overlying Silurian Siltstone suggests that barite deposition may have occurred as early as Late Silurian.
Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D_{Pl}	LST	**LIMESTONE** Fetid black micritic limestone, weathers gray. Extensively veined and recrystallized in places, no recognizable textures. Also, thin bedded brown to gray weathering silty limestone, calcareous silstone and dark gray chert.
Early Devonian	Earn Group	Portrait Lake Formation Lower Member	D_{pa}	ARG ARGG	**GRAPHITIC ARGILLITE** Black siliceous argillite, chert and graphitic shale. Characteristically fractured, brecciated and quartz veined in places. In drill core, interbedded with yellow-weathering siltstone at top of Steel Formation. According to Gordey, the base of the Earn Group is defined as the top of the highest wispy-laminated siltstone layer.
Silurian	Road River Group	Steel Formation	S_S	SST	**SILTSTONE** Yellow-weathering burrowed calcareous siltstone with wispy laminations; calcareous silty shale. Contains a distinctive bed of yellow-weathering, hard blue-gray siliceous dolomite. Interbeds of black graphitic argillite, chert and minor bedded barite form a distinctive upper member near the top of the formation. According to Gordey, the upper boundary of the Steel Formation is placed at the top of the last siltstone layer. The presence of barite suggests that the Steel Formation may span a wider time interval (Silurian to Early Devonian) than its type area. Limestone and calc-arenite beds (turbidites)are common near the bottom of the formation. In the valley northeast of the Classic Zone, a limestone bed immediately overlies an andesite-pebble conglomerate at the top of a thick sequence of Menzie Creek volcanics, suggesting a possible unconformity. Age dating of this limestone is needed to confirm this assumption.
Ordovician-Silurian	Road River Group	Duo Lake Formation	OS_D	CH	**CHERT** Black chert and argillite; chert is massive or thick bedded and lacks banding; no limy or tuffaceous layers. Although it generally underlies the Steel Fm siltstone, identical chert commonly forms beds several metres thick within the Steel Fm.
Cambro-Ordovician	Road River Group or Rabbitkettle Formation	Menzie Creek Volcanics ?	CO_M	MTUFF	**MAFIC TUFFS, FLOWS AND BRECCIA** Dark calcareous amygdaloidal flows, tuffs and volcanic breccia; probably andesitic; highly altered with calcite and zeolite-filled amygdules; thin limestone interbeds. An andesite pebble conglomerate occurs at the top of a thick wedge of this unit northeast of the Classic Zone. Well rounded andesite clasts up to 8 cm across occur in a dark matrix of highly calcareous fine grained tuff. This unit is overlain by Steel Formation silstone in the southern map area suggesting a major unconformity during Ordovician Time.

2.2.1 Stratigraphy

2.2.1.1 Road River Group

The stratigraphic section on the property is dominated by Road River Group rocks, consisting of tan-weathering, wispy-laminated, 'burrowed' siltstone overlying massive black chert and calcareous andesitic flows and tuffs. The siltstone and chert units correlate with the Silurian Steel and Ordovician Duo Lake Formations respectively as defined by Gordey and Anderson (1993) in Nahanni map area (105-I). The volcanics, representing the oldest rocks on the property, correlate with intermediate flows mapped by Green (1972) in the Larsen and Nash Creek map areas as a facies equivalent of the Road River Formation. However, recent mapping by Gordey and Anderson in the Nahanni mapsheet correlate similar lithic tuffs with the Upper Cambrian Rabbitkettle Formation.

The Steel Formation occurs sporadically throughout the Selwyn Basin and is an important stratigraphic marker forming the top of the Road River Group. Within the property boundaries the top part of the formation contains interbeds of graphitic shale, chert, bedded barite and limestone and can be mistaken with the overlying graphitic argillite of the Lower Earn Group. Fossils from this upper member of the Steel Formation contain Silurian to Early Devonian conodonts (Norford and Poulton, 1995; GSC Loc. No: C-211108, C-211110 and C-211111). Mapping by Gordey and Anderson (Nahanni map area 105-I, 1993) has defined the contact as the highest occurrence of wispy-laminated siltstone, which is the same parameter employed at Brewery Creek. Throughout much of the central part of the property, however, siltstone overlies Earn Group graphitic argillite, shale and sandstone. Intensely sheared interbeds of cherty argillite, mentioned above, are believed to be the locus of thrust faulting which has juxtaposed thin sequences of Steel Formation (<150m) on top of Lower Earn Group rocks. Throughout the Selwyn Basin the contact between the Road River and Earn Group is marked by a regional unconformity (Murphy, and Heon 1994); however, interbedding of Road River siltstone and Earn Group graphitic argillite and bedded barite at Brewery Creek may represent continuous deposition from late Silurian through to early Devonian.

2.2.1.2 Earn Group

In the central part of the Brewery Creek Property area the stratigraphic section is dominated by siliclastic rocks of the Devonian Earn Group. Gordey and Anderson (1993), in Nahanni Map Area 105-I, divide the Earn Group into a lower fine grained locally clastic and baritic member and an upper coarser clastic member known as the Portrait Lake and Prevost Formations, respectively. At Brewery Creek the Earn Group section appears to be confined to the lower Portrait Lake Formation consisting of local sandstone, greywacke and chert pebble conglomerate interbeds within baritic argillite, graphitic shale and silty shale.

At Brewery Creek the lower member of the Portrait Lake Formation consists of an interbedded sequence of black graphitic argillite and minor chert (up to 250m thick) which extends east-west through the entire central part of the property. Locally, bedded barite (≤ 20m thick) and thin (<4m) black limestones are found interbedded within this unit north of the Kokanee Zone (20,800 E/20,200 N). The age and stratigraphic position of the argillite is based solely on its baritic composition which closely resembles similar Early to Late Devonian baritic strata mapped in the Nahanni Map Area(Gordey and Anderson, 1993).

Overlying the argillite is locally tuffaceous fissile shale interbedded with minor sandstone, greywacke and chert pebble conglomerate. This coarser clastic assemblage (up to 100m thick) appears to grade up-section into soft sericitic shale and sandstone which cap the higher ridge tops in the western map area. It remains unclear whether this soft, sericitic texture is due to a primary tuffaceous component or weak hornfelsing caused by nearby intrusives bodies. In the central map area, chert pebble conglomerate is incised within Steel Formation Siltstone suggesting that rifting and uplift during Devonian Time produced local unconformities (channels) through the underlying Road River Group. The general eastward thinning and coarsening of Earn Group sediments along Laura Creek may also define a northwesterly striking Early Devonian rift zone, filled by clastic material sourced from the southeast.

2.2.2 Intrusive Rocks

The stratigraphic sequence has been intruded by Cretaceous quartz monzonite porphyry, biotite monzonite and syenite. Dating of zircon by the G.S.C. yielded an age of 91.4 MY. ± .2 for the quartz monzonite. This is approximately the same age as similar intrusive complexes found to the north at Antimony Mountain and elsewhere within the Tombstone Range.

The quartz monzonite has intruded Upper Road River and Lower Earn Group stratigraphy as semi-conformable sills along a strike length of at least 12km. Sill emplacement is closely associated withwell developed, gently-dipping shear fabrics within graphitic argillite, suggesting that the quartz monzonite has invaded early Cretaceous thrust faults. Hornfelsing is limited in the surrounding sediments supporting the hypothesis of a high-level, low-temperature, dry intrusive event. Quartz monzonite-shale contacts strike northwesterly (090° to 120°) and dip gently (005° to 30°) to the southwest. Sill thicknesses range from 5 to 10m in the western map area to greater than 100m in the east. The quartz monzonite is associated with all of the ore zones scheduled for mining to date.

In the south-central map area, syenite and biotite monzonite stocks intrude surrounding Road River and Earn Group sediments. Biotite monzonite sills also occur in the southcentral and southeastern map areas. The syenite and biotite monzonite are relatively coarse-grained and equigranular with well developed hornfelsing around sedimentary contacts. Despite textural and compositional differences these intrusives are believed to be closely related in age to the quartz monzonite (Green, 1972). The biotite monzonite and syenite suite does not occur in any of the ore zones scheduled for mining at this time.

2.2.3 Structural Geology

The stratigraphic sequence described above generally strikes WNW and dips moderately SW (010° to 040°). However, occasional north dips and minor broad south vergent folds have been recently mapped in the silty shales and tuffs of the Portrait Lake Formation. Limb dips range from 10° to 60°. Fold axes trend ENE and WNW (80 to110°) and plunge gently (010°) to the west. This style of deformation is consistent with the Sprague Creek map area (115P/15), 50 km to the southeast, where similar south vergent folding has been mapped in similar stratigraphy (Murphy and Heon, 1994). Fold deformation and cleavage development is thought to correlate with prominent SW vergent folds found throughout the Omineca Crystalline Belt of early Middle Jurassic age (Murphy and Heon,1994).

Several episodes of faulting have cut the entirety of the stratigraphic pile and include: early Cretaceous northeast directed thrusts and NNE shears, late Cretaceous WNW and NNE shears, and WNW and ENE younger brittle faults. These structures are described below in detail as they are intimately and spatially related to ore deposition.

2.2.3.1 Listric Normal Faults - Reactivated Thrust Faults

WNW trending, northeast directed thrusts traverse the majority of the property area juxtaposing Silurian Steel Formation against Early Devonian Portrait Lake sediments. Argillite, common to both the Upper Road River and Lower Earn Group, is highly tectonized, incompetent, graphitic and most likely represents the decollement surface where thrust faulting has been accommodated. However, slickensides along these graphitic surfaces show consistent strike and dip-slip movement and thus may represent later listric normal movement along pre-existing thrust surfaces. This later extensional event is primarily responsible for the quartz monzonite sill emplacement within the graphitic argillite.

Trench exposures and cross-sectional interpretations consistently display shallowly south-dipping sheared contacts between interlayered units of pervasively altered quartz monzonite and strongly tectonized graphitic argillite. These listric structures are not delineated on Figure 5 but traverse the entire property, 12km in total, varying in strike from 080° to 120°. Dips to the southwest range from 060° near surface to less than 010° at depth.

Trench exposures commonly display these listric normal faults as stacked "rift-like" curvilinear surfaces which progressively flatten south-dipping strata by rotation of the hanging wall block. Gently north-dipping argillites occur in the Canadian Zone and may be the result of this rotation. Cross-sectional interpretations show these imbricate faults merging tangentially or at small intersection angles.

2.2.3.2 NNE Faults

Prominent NNE vertical structures (020° to 040°), characterized by tightly spaced en echelon fractures are common within hanging wall sediments of thrust sheets. Fracture intensity increases down section toward the thrust surface. Similar to the intrusion of the thrust faults, these structures have also been invaded by quartz monzonite (e.g. Moosehead Zone) and thus are believed to be the same age (early Cretaceous). These structures are primarily orthogonal to the trend of thrust faulting and may represent transverse sinistral tear faults.

2.2.3.3 WNW & NNE Shears

The most dominant structural fabric on the property consists of WNW (100°) and NNE (040°) shears. This fabric is primarily sub-vertical: however moderate SW and NE dips are also associated with WNW structures. The age of deformation is constrained to 91 Ma or younger as this fabric crosscuts the quartz monzonite sills. Slickensides show both sinistral and minor normal movements on WNW faults and dextral movement on NNE faults. Relative offsets within the stratigraphic pile are generally less than 3m. The relative orientation and movement of these structures suggests that they may represent a conjugate set with maximum compressive stress and extension oriented ENE(070°) and NNW(160°) respectively. Furthermore, trench exposures within the Pacific Zone show minor north dipping en echelon structures truncated against a more dominant south dipping fault. This geometry suggests graben style extension (minor antithetic structures falling against a dominant master fault). This shear/extension system appears to be confined to the hanging wall of listric normal faults (pre-existing thrust faults).

Fault gouge up to 30cm wide with strong strike and dip-slip slickensides along graphitic argillite-quartz monzonite contacts suggest that these thrust surfaces may have been reactivated forming deep seated master graben faults. Further movement along early Cretaceous NNE structures is also suggested.

2.2.3.4 WNW & ENE Brittle Faults

The latest stage of deformation on the property consists of WNE and ENE trending unhealed faults. Little work has been done on these structures and therefore they remain primarily interpretive. Limited drilling along these structures in the Canadian and Kokanee Zones suggests left lateral strike-slip movement for the ENE faults. Offset of the bedded barite horizons is suggestive of up to 200m of displacement. WNW faults are interpreted as steeply dipping normal structures which offset stratigraphy by as much as 50m. Both faults truncate sulphide mineralization and all previously described structures.

2.2.4 Property Lithologies

The following discussion is restricted to those lithologies mapped in the immediate vicinity of the presently known ore zones.

2.2.4.1 Quartz Monzonite Intrusives

There are three variants of the Quartz Monzonite sill complex:

- fresh quartz monzonite (QM);
- altered quartz monzonite (AQM); and,
- weathered (oxidized) limonitic altered quartz monzonite (LAQM).

Quartz Monzonite (QM) is typically grey, feldspar porphyritic (with rare k-spar phenocrysts to 2cm), and contains 10 to 15% biotite. It is locally limonitic near the surface due to partial weathering of biotite. Trace amounts of pyrite have been observed along fracture surfaces.

The Altered Quartz Monzonite (AQM) has apparently undergone hypogene alteration. This lithology is light grey to white and is characterized by the complete replacement of biotite by pyrite and chlorite, and by alteration of feldspars to sericite and clay with the introduction of secondary quartz. Silicification occurs primarily as fine quartz stockwork and lesser pervasive silicification within shear zones up to 15m wide. Sulphide content (pyrite, marcasite and lesser arsenopyrite and stibnite) ranges from 0 to 5%.

Limonitic Altered Quartz Monzonite (LAQM) is the oxidized equivalent of altered quartz monzonite. This unit is characterized by a pervasive rusty brown weathered colour derived from the oxidation of biotite and sulphides to limonite. Remnant sulphides are rare, consisting of traces of pyrite and cross-cutting stibnite veins up to 15cm wide.

2.2.4.2 *Earn Group & Road River Sedimentary Rocks*

The following lithologies comprise the Earn & Road River Groups in the area of the ore zones:

- chert pebble conglomerate (CPC),
- greywacke (GW),
- sandstone (SS),
- shale (SH),
- barite (BAR),
- limestone (LST),
- argillite (ARG),
- graphitic argillite (ARGG),
- siltstone (SST),
- chert (CH), and,
- lapilli-block tuff (MTUFF).

Earn Group; Portrait Lake Formation Dp

Chert Pebble Conglomerate (CPC) is a medium to dark grey, clast-supported conglomerate. Clasts, up to 5cm in diameter, are mainly well rounded chert, shale or argillite pebbles. The unit is competent, locally silicified and fractured. Trace to 1% limonite and sulphides occur along fracture surfaces. The chert pebble conglomerate and greywacke are thought to represent a continuum based on grain size.

Greywacke (GW) is dark grey and contains approximately 15% angular chert and shale clasts (typically less than 0.5cm in diameter) within a poorly sorted arkosic sandstone matrix. The greywacke is generally massive with no apparent bedding. It is not visibly oxidized but may contain trace limonite and stibnite along fracture surfaces.

Sandstone (SS) is dark grey, well-sorted clastic unit with a siliceous matrix. It is generally massive with little evidence of apparent bedding, but is itself commonly interbedded with shale. This unit generally contains trace limonite along fracture surfaces. Where mineralized, the sandstone matrix is flooded with 5 to 10% fine-grained pyrite and arsenopyrite.

Shale (SH) is dark grey, non-carbonaceous, fissile, and displays well developed bedding. Soft, light to medium grey tuffaceous layers of cm scale thicknesses are also common. It is generally not visibly oxidized but locally has trace limonite along fracture surfaces. Where mineralized, the shale matrix is flooded with 5 to 10% very fine-grained pyrite and arsenopyrite.

Barite (BAR) is bedded, generally light brown to buff coloured, and is commonly interbedded with limestone and shale.

Limestone (LST) is black, carbonaceous, commonly fetid and contains abundant fossil fragments.

Argillite (ARG) is a black, fine grained unit with well developed bedding, is commonly carbonaceous, locally baritic, and contains minor chert horizons. This unit is heavily fractured, fissile and graphitic near intrusive contacts. Hornfelsing is absent near the intrusive contacts. Sulphide content is variable, ranging

from 0 to 5% pyrite and marcasite. Sulphides occur as fine disseminations and as 1 to 2cm thick beds of diagenetic pyrite.

Graphitic Argillite (ARGG) is broadly similar to ARG but is localized along shear zones near intrusive contacts. Bedding structures are no longer visible and the rock is friable.

Road River Group; Steel Formation S_S

Siltstone (SST) weathers a distinctive tan colour and is commonly intercalated with argillite. The unit is commonly fissile, calcareous and bioturbated. The unit can often be dolomitic exhibiting a massive slightly indurated texture. The unit also exhibits a soft, tuffaceous texture (abundant sericite and illite) and may be the result of weak hornfelsing by nearby intrusive bodies or decalcification. Interstitial carbonate in the siltstone is removed by a cooling hydrothermal solution and replaced by fine grained sericite, illite and montmorillonite. Where mineralized the calcareous matrix has been replaced by silica with up to 10% fine disseminated pyrite, arsenopyrite and stibnite.

Road River Group; Duo Lake Formation OS_D

Chert (CH) occurs as massive beds up to 30m thick, and is commonly interbedded with argillite. Sulphides are rare, occurring as trace amounts of pyrite along fracture surfaces.

Rabbitkettle Formation CO_M

Lapilli-Block Tuff (MTUFF) is a light grey, indistinctly layered pyroclastic unit of intermediate composition. Clasts are 0.5cm to 10cm in diameter, with poorly defined margins. This unit is commonly calcareous and contains up to 10% fine-grained pyrite.

CHAPTER THREE: MINERALIZATION

3.1 Introduction

Moderate to high level gold mineralization at Brewery Creek is structurally controlled and primarily confined to hanging wall siliclastic strata, intrusive rocks and calcareous sediments of listric normal faults (reactivated thrust faults). Eighty-five percent of the known reserves are hosted by Cretaceous quartz monzonite sills while the remainder is contained within brittlely deformed coarse clastic sediments of the Devonian Earn Group.

Typically, the reserve deposits delineated to date average 1 to 2 g/t Au with individual assays varying from trace to greater than 30 g/t Au. Although host rock lithologies vary considerably, tectonized graphitic argillite consistently forms the footwall to all known deposits. Late Cretaceous dip and strike-slip reactivation along these graphitic thrust surfaces suggest they also acted as deep-seated conduits which tapped gold bearing hydrothermal solutions.

To date, a geologic resource of approximately 24 million tonnes grading 1.5 g/t Au has been defined in ten near-surface, gently-dipping deposits along a strike length of 7km. From west to east these deposits, collectively referred to as the Reserve Trend, have been named the West Big Rock, East Big Rock, Pacific, Blue, Moosehead, Canadian, Fosters, Kokanee, Golden and Lucky Zones. A subdivision of mineable and geological resource estimates for these zones is provided in Table 6. The Big Rock reserves were calculated using results of the 1996 drilling and include "oxide" proven, probable and possible geologic resource estimates. The Bohemian, Schooner and Sleemans Zones to the east, the North Slope Zone to the north and South Canadian and Classic Zones to the south are classified as exploration targets and no tonnages have been attributed to them.

TABLE 6

Summary of Geological Resources (tonnes x 1000)--(From Feasibility Study, 1994)

Geological Resources	Cut-off only	Blue		Canadian		Foster		Golden		Kokanee		Lucky		Moosehead		Pacific		West Big Rock		East Big Rock		Total	
	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t	t	g/t
TOTAL	0.3	2,992	1.25	3,028	1.24	1,819	1.53	6,381	1.30	6,492	1.43	2,801	1.17	3,056	0.89	1,585	1.04					28,154	1.26
	0.5	2,341	1.49	2,502	1.42	1,560	1.72	4,938	1.56	4,901	1.76	2,114	1.42	2,255	1.06	1.145	1.29	1.338	1.07	1.204	.95	24,298	1.46
	0.7	1,799	1.76	2,070	1.59	1,344	1.90	3,857	1.84	3,864	2.08	1,622	1.68	1,531	1.28	874	1.51					16,960	1.78
	0.9	1,392	2.05	1,651	1.80	1,102	2.15	3,051	2.11	3,205	2.34	1,259	1.93	1,070	1.50	701	1.69					13,431	2.04
Oxide Subtotal	0.3	1,472	1.15	2.647	1.22	1,390	1.59	4,449	1.30	5,059	1.46	1,734	1.22	1,253	0.89	1,081	0.80					19,085	1.28
	0.5	1,105	1.40	2,170	1.40	1,212	1.76	3,416	1.57	3,860	1.79	1,295	1.50	876	1.11	698	1.03	NC	NC	NC	NC	14,632	1.55
	0.7	806	1.70	1,790	1.57	1,051	1.94	2,687	1.84	3,028	2.12	1,038	1.73	603	1.34	469	1.25					11,470	1.81
	0.9	566	2.08	1,411	1.79	867	2.19	2,088	2.14	2,515	2.39	796	2.01	463	1.51	333	1.43					9,039	2.09
Sulphide Subtotal	0.3	1,054	.99	43	1.29	11	2.06	1,010	1.13	628	1.46	985	1.08	570	0.80	197	2.16					4,497	1.14
	0.5	832	1.15	39	1.37	10	2.18	830	1.29	509	1.71	752	1.28	450	0.97	174	2.39	NC	NC	NC	NC	3,552	1.34
	0.7	607	1.36	36	1.45	10	2.23	635	1.51	449	1.85	529	1.57	260	1.16	164	2.51					2,689	1.57
	0.9	471	1.52	32	1.52	10	2.28	515	1.68	373	2.07	417	1.79	162	1.41	154	2.62					2,133	1.78
Transition Subtotal	0.3	466	2.18	339	1.41	419	1.33	922	1.48	806	1.20	82	1.28	1,232	0.92	307	1.16					4.572	1.31
	0.5	404	2.45	293	1.58	388	1.55	692	1.85	532	1.61	68	1.48	974	1.06	272	1.25	NC	NC	NC	NC	3,572	1.56
	0.7	386	2.53	245	1.76	283	1.74	536	2.21	387	1.99	55	1.67	668	1.28	241	1.34					3.801	1.83
	0.9	355	2.69	208	1.95	225	1.99	448	2.49	317	2.25	46	1.84	445	1.52	215	1.41					2.258	2.08
Oxide and Transition Subtotal	0.3	1,938	1.39	2,986	1.24	1,808	1.53	5,371	1.33	5,865	1.43	1,816	1.22	2,485	0.91	1,388	0.88					23,657	1.29
	0.5	1,508	1.68	2,463	1.42	1,550	1.72	4,108	1.62	4,392	1.77	1,362	1.50	1,850	1.09	971	1.09	NC	NC	NC	NC	18,204	1.55
	0.7	1,192	1.97	2,034	1.59	1,333	1.90	3,223	1.90	3,415	2.10	1,093	1.73	1,270	1.31	710	1.28					14,271	1.81
	0.9	920	2.32	1,619	1.81	1,092	2.15	2,536	2.20	2,832	2.37	842	2.01	908	1.52	547	1.42					11,297	2.08

Note: West Big Rock and East Big Rock Zones calculated by R. Diment, 2/97, with a 0.5 g/t cut-off only and includes "oxide" proven, probable, and possible geologic estimates. "Mineable Reserves" for all zones currently in revision by mine staff.

A discussion of the sulphide mineralization in conjunction with alteration, structural controls, occurrence of gold, preg-robbing characteristics of graphitic argillite, geological model and the individual ore zones follow. Significant results from the work conducted in the various exploration zones during the 1996 field season are also discussed in terms of their potential to increase geological reserves.

3.2 Alteration and Mineralization

Gold mineralization is hosted within porphyritic quartz monzonite, biotite monzonite, interbedded sandstones and silty shales. Although a wide variety of lithologies exist, mineralization and alteration are restricted to those units which have created open space through structural deformation or decalcification caused by tectonic and hydrothermal forces. The finer grained siliceous argillites are generally unmineralized due largely to low porosity and poor permeability caused by weak hornfelsing and plastic deformation.

3.2.1 Mineralized Intrusive Rocks

3.2.1.1 Quartz Monzonite

Eighty-five percent of the known gold mineralization is hosted by a single lithology, namely quartz monzonite. Excluding the Classic Zone, mineralized quartz monzonite occurs in every deposit and exploration target area delineated to date.

Mineralization is intimately associated with pervasive phyllic and locally intense argillic alteration. This assemblage is characterized by destruction of mafic phenocrysts, alteration of feldspars to sericite, presence of illite and kaolinite, and introduction of secondary quartz with fine-grained pyrite and arsenopyrite. Silicification occurs primarily as coarse grained (0.5-2 cm wide) milky white quartz veinlets which have been overprinted by a wispy-textured hairline quartz stockwork. These two cross cutting vein systems are well developed adjacent to narrow fault gouge zones producing locally pervasive silicification. These areas contain some of the highest grade mineralization on the property yielding values up to 16 g/t Au over 6m (Kokanee Zone, K-6 bulk trench). However high gold values are also associated with intense fracturing and weak silicification as well, suggesting that the more subtle and passive hairline stockworking is the main mineralizing event. A weak propylitic halo, defined by weak chloritization of mafic phenocrysts and strong carbonitization, is commonly found associated and peripheral to the mineralization. The introduction of carbonate to the matrix may have allowed decalcification and subsequent silicification during the phyllic overprint stage. This style of alteration is subtle, showing no signs of stockworking or brecciation but exhibiting well preserved feldspar megacrysts within an aphanitic, siliceous and pyritic groundmass.

Stibnite veins, 1 to 20cm thick, are common within the mineralized zones but rarely contain any significant gold values. Silicified intrusive clasts within these veins imply that the stibnite may represent a later hydrothermal event which occupied the same structures as the gold mineralizing event.

Oxidation, here defined by weathering of biotite and sulphides to limonite, is extensive, extending from surface to an average depth of 50m. Common oxide minerals are goethite after pyrite, scorodite after arsenopyrite and antimony ochre and kermisite after stibnite.

A selected suite of altered and unaltered quartz monzonite was analysed by whole- rock technique to determine the relationship between the major element chemistry and gold mineralization. These results exhibit a strong positive correlation between alteration and gold, consistent sodium and potassium depletion, and silica enrichment.

3.2.1.2 Biotite Monzonite and Syenite

Mineralization of the biotite monzonite and syenite is restricted to the Classic Zone. Drilling in 1993 returned values up to 0.41 g/t Au over 100m. Unlike the quartz monzonite, mineralization appears to be associated with potassic alteration consisting of fine shredded biotite within a fine grained white potassium feldspar matrix. Quartz-K feldspar and tourmaline veinlets, up to 2 cm wide, are also present. Calc-silicate skarn minerals such as tremolite, epidote and calcite are common near sedimentary contacts. With the exception of coarse free gold, the alteration and geological setting is similar to the large tonnage Fort Knox and Dublin Gulch Deposits. The Classic Zone continues to be a target of considerable interest and tonnage potential, as the soil anomaly extends for 5 km and oxidation extends to a depth of greater than 100m .

3.2.2 Mineralized Sandstone and Shale

Mineralization in siliclastic rocks is confined to the Pacific, Blue and Moosehead Zones. Oxidation, compared to the intrusive rocks, is weak, limited to a depth of 25 metres. Gold values here are more directly associated with arsenopyrite than is apparent elsewhere, yielding values up to 7.5 g/t Au over a 28m true thickness (BC-DDH-91-461).

Alteration is characterised by intense fracturing occupied by fine quartz stockwork and cryptocrystalline montmorillonite within a well foliated groundmass of sericite and detrital quartz. Very fine-grained pyrite (trace to 10%) is disseminated throughout the siliceous stockwork. Cement prior to mineralization appears to have been silica (noted in thin sections as overgrowths on monocrystalline quartz grains). Stibnite occurs as veins and pods up to 1cm wide. Preliminary ground radiometric surveys within the Blue and Pacific Zones show consistent potassium enrichment associated with mineralized sandstone and shale.

3.2.3 Mineralized Argillite

Although argillite is a dominant rock type in most of the deposits, it is generally unmineralized. Elevated gold values in argillites are largely confined to highly sheared graphitic and stockworked contacts between the mineralized intrusives and coarser clastic sediments.

3.3 Relationship between Mineralization and Structure

Four structural fabrics, namely WNW-trending imbricate listric normal faulting, NNE and WNW sub-vertical shears and south vergent folded bedding are the main genetic controls to gold mineralization in the Reserve Trend. Outside the main deposit corridor, a NW trending structure parallelling the Tintina Trench appears to control mineralization in the Classic Zone.

3.3.1 Mineralization and Listric Normal Faults

The dominant control to gold mineralization is EW to ESE - trending imbricate listric normal faults(reactivated thrust faults) which have been delineated along a 12km strike length extending from the Big Rock to the Sleemans Zone. Later shear and extension along thrusts produced the necessary open space for migration of gold bearing hydrothermal solutions. The repetitious, imbricate nature of these structures commonly forms stacked (up to three), moderate to gently dipping (005° to 060°) mineralized domains. These faults are localized along contacts between fine-grained graphitic argillites (barren footwall) and the brittle, coarse-grained clastic sediments and intrusive rocks (mineralized hanging wall). Fracture intensity, alteration and associated gold values generally increase toward these contacts and up dip. Higher gold values in the near surface environment may be attributable to steeper fault contacts caused by greater imbrication. Furthermore, footwall argillites may have acted as a physical (permeability) trap, thereby concentrating ascending gold-bearing solutions.

3.3.2 Mineralization and WNW, NNE Shears

Mineralized sub-vertical WNW and NNE shears are common in the hanging wall of imbricate thrust faults. Fractures are generally occupied by en echelon quartz veinlets (commonly less than 1cm wide) which contain fine-grained arsenopyrite. In the Golden Zone bulk trench, a NNE fabric has developed into a 10m wide vertical quartz breccia shear zone crosscutting quartz monzonite. These shear systems appear to form minor vertical and moderate north and south dipping ore chutes within the broader gently dipping mineralized domains of listric normal faults. Higher grade mineralization is intimately associated with greater fracture intensity with or without pervasive silicification. The wide range in shear dip and their geometric relationship between bounding reactivated thrusts also suggests minor graben style extension(refer to section 2.2.3.3 of this report). Drilling to date has consistently shown that these shears and associated mineralization are bounded at depth by gentle south dipping, graphitic master graben faults (i.e. listric normal faults).

3.3.3 Mineralization and South Vergent Folding

Mineralization in the Blue Zone appears to be controlled by broad south vergent folded contacts between Earn Group siliclastic rocks rather than cross cutting planar shears mentioned earlier. Although stockworking is present, silicification primarily occurs as fine grained en echelon quartz veinlets along bedding. Structural deformation and associated mineralization are best developed in the hinges of these folds. Two bulk sample trenches (3-5 metres deep) exhibit a south vergent isoclinal synform which bounds higher grade mineralization averaging 6 g/t Au. Drilling has delineated this grade along a strike length of 200 metres. Further structural mapping is needed to determine if this localized isoclinal folding is due to drag along later structures or inconsistencies with thrust fault kinematics. Like other reserve area deposits however, mineralization is bounded at depth by a gently dipping, planar graphitic surface.

3.3.4 Mineralization and NW Classic Zone Structure.

A southeasterly trending (135°) sub-vertical extensional fault hosts low grade gold mineralization (0.41g/t Au) in the Classic Zone. Unlike the thrust fault regime, alteration here is not localized along the sediment-intrusive sill contacts but cross-cuts syenite and biotite monzonite stocks vertically to depth. A strong arsenic-in-soil anomaly parallels this structure and extends 5km northwesterly to the Pacific Zone. Further exploration work is needed to assess the gold potential along this trend.

3.4 'Preg-Robbing' Characteristics of Graphitic Argillite

Metallurgical testwork has been conducted on argillite and graphitic argillite in order to assess their preg-robbing tendencies, and thereby the implication for reduced leach recovery within the heap. Bounding footwall argillites as well as intercalated graphitic argillite lenses within mineralized zones were specifically sampled and tested to determine if selective mining will be required to avoid possible preg-robbing lithologies. Results show a strong correlation with the oxide/sulphide interface and paleo-water table boundaries. The following generalized conclusions can be made:

1. Within the oxide facies of the deposits (i.e. presence of significant limonite and absence of visible sulphide) lying above the paleo-water table, graphitic argillite is demonstrably not preg-robbing. Neither the percentage of visible graphite nor its morphology (even where mapped as massive, 'sooty' graphite) apparently affects leach rate or recovery.

2. Within oxidized portions of the deposits lying below the paleo-water table, graphitic argillite is variably weakly to moderately preg-robbing.

3. Within the transition facies, graphitic argillite is commonly weaklypreg-robbing if located above the paleo-water table, and moderately to strongly preg-robbing below the water table.

4. Within the sulphide facies of the deposits (occurrence of > 1% sulphides and the absence of visible limonite) graphitic argillite is always strongly preg-robbing.

3.5 Occurrence of Gold

Microprobe work on selected mineralized samples was conducted at the University of Western Ontario in 1990. Results show that gold occurs primarily as sub-micron particles in solid solution with arsenopyrite and pyrite as growth bands around larger sulphide grains. Most of the gold is concentrated in the outer rim and only limited oxidation is required to liberate it from solid solution. The sulphide grains themselves are typically very fine grained, in the order of 100 to 250 microns.

3.6 Geological Characterization of the Ore Zones

The several ore zones on the property are similar in overall style but vary slightly in structural geometry, proportions of rock types and ore host. The following section briefly describes the individual ore zones.

3.6.1 Canadian

The Canadian Zone consists of a 20 to 35m thick mineralized limonitic-altered quartz monzonite (LAQM) sill intercalated with carbonaceous to graphitic argillite (ARG, ARGG). The footwall of the sill is bounded by tectonized graphitic argillite (listric normal fault) which strikes 120° and dips gently (015°) to the southwest. Sulphides are rarely preserved in these rocks except for minor discontinuous stibnite veins up to 10cm thick. Mining in 1996 exposed a parallel graphitic listric normal fault to the bounding footwall structure. This fault, although pencil line thin, can be traced down dip more than 100 metres and acts as a sharp boundary between ore and waste in the hanging wall. Thus the Canadian deposit can be described as a gentle south dipping sill bounded by parallel footwall and hanging wall listric normal faults.

The orebody, extending 450m along strike and 150m down dip, is classified as 91% oxide and 9% transition ore. Sulphide mineralization remains open down dip to the southeast. Preg-robbing argillite is confined to transition and sulphide mineralization in the southeastern portion of the zone and as a result will probably affect the leach recovery of less than 5% of the total mineable reserve.

A parallel, satellite oxide orebody occurs 150m west of the main Canadian pit. Dimensions are 100m x 150m with mineralized sill thickness ranging from 2 to 10m. Oxide mineralization remains open down dip to the southwest.

Less oxidized rocks, especially unoxidized altered quartz monzonite (AQM), occur at relatively shallow depths (near the bottom of the proposed pit) in the southeastern corner of the zone. Varying percentages of sulphides (mostly pyrite) are preserved in both AQM and ARG in this area (e.g. section 19667E). Mineralization in the AQM contains up to 1% arsenopyrite and stibnite and remains open down dip to the southeast. Minor (<5%) shale (SH) and sandstone (SS) occur in the southwestern Canadian Zone. The shale differs from argillite in that it is softer, non-carbonaceous and siltier. Pyrite is occasionally preserved in unoxidized shale and sandstone.

3.6.2 Fosters

The Fosters Zone is split into an upper and lower deposit. The upper deposit is similar to the Canadian zone in that mineralization is confined to a 20 to 40m thick sill bounded by graphitic argillite. The graphitic footwall, or thrust surface, strikes WNW (100°) and dips between 015° to 045° southwest. Unlike the Canadian, the Fosters exhibits strong sub-vertical WNW fracture cleavage which confines mineralization to narrow higher grade (3 to 5 g/t Au) zones within the sill.

The Lower Fosters deposit is structurally more complicated containing two mineralized sills bounded by imbricate graphitic listric faults. The sills dip gently (005° to 015°) to the southwest but steepen to 045° near surface. Intercalated argillite is common within the orebody. Higher grade areas (9 to 17 g/t Au over 2m) are localized near surface against graphitic contacts.

The upper and lower deposits extend 300m along strike and 50 to 100m down dip. Oxide is the dominant ore type. Transition ore is limited to 5 and 11% of the total mineable reserve in the upper and lower deposits respectively.

Preg-robbing argillite may affect recovery from up to 15% of the total oxide reserve in the Lower Fosters Zone but probably 5% or less in the Upper Fosters Zone.

Rock types in both the upper and lower deposits are dominated by LAQM with intercalated ARG and ARGG. Minor AQM occurs in the southeastern part of the lower deposit. Rare sulphides are confined primarily to the lower deposit where pyrite, arsenopyrite and stibnite are preserved in LAQM and AQM, generally but not always below the water table.

3.6.3 Kokanee

The Kokanee Zone consists of three imbricate listric fault domains which dip steeply (055° to 060°) near surface and flatten to less than 020° at depth. The faults, localized along LAQM - ARGG contacts, are interpreted to merge tangentially at depth, forming a common sole thrust. Mineralization is confined to quartz monzonite sills with higher grade areas (15 g/t Au over 6m) localized along the steeper graphitic footwall contacts near surface. Sub-vertical NNE and WNW fractures also develop steep controls to mineralization within the hanging wall sill of listric fault domains. Both oxide and sulphide mineralization remain open down dip along the southern edge of the zone.

Transition ore is limited to approximately 8% of the total mineable reserve. Preg-robbing internal argillite, which may affect up to 5% of the total oxide reserves, is localized along the southeastern edge of the zone (21,000E to 21,100E).

The Kokanee Zone is less completely oxidized than the Canadian and Fosters Zones due to greater sill thicknesses (0 to 70m from surface). Unoxidized AQM and ARG in which sulphides are preserved is more common than in the Canadian and Fosters zones. Trace amounts of pyrite are preserved in LAQM and oxidized ARG. Stibnite occurs as rare discontinuous veins up to 3cm wide within LAQM.

Steel Formation siltstone occurs in the north central portions of the zone within the anticipated pit area and will probably form part of the pit wall.

Towards the northwest, chemical sediments including barite, chert and rare limestone are found interbedded with shale, siltstone, and argillite. In some places (e.g. section 20,933 E) the barite might form part of the pit wall.

3.6.4 Golden

The Golden Zone is similar to the Kokanee in that up to five imbricate listric normal faults define moderate to gently dipping (060° to 020°) mineralized domains. Strike lengths range from 500 to 700m and extend 25 to 50m down dip. Ore is confined to hanging wall quartz monzonite sills and minor argillite within the footwall contacts of the listric faults. Strong NNE and minor WNW subvertical fracture cleavage develop steep ore controls within hanging wall sills. Sulphide mineralization remains open down dip along the southern edge of the zone.

Transition and sulphide ore is limited to 12 and 1% respectively of the total mineable reserve. Preg-robbing internal argillite, which is localized along the southern edge of the zone, will affect less than 5% of the total oxide reserve.

Rock types are dominantly oxidized quartz monzonite (LAQM) intercalated with argillite (ARG). The northern part of the Golden Zone is well oxidized. The southern portion is less completely oxidized and minor sulphides are still preserved in LAQM and in oxidized ARG. Minor stibnite occurs as 2 to 10cm wide veins. In the south it is probable that the pit will descend into unoxidized, auriferous altered quartz monzonite (AQM) in which sulphides are preserved. (e.g. section 21,900 E)

3.6.5 Lucky

Gold mineralization in the Lucky Zone occurs within three gently dipping to flat lying imbricate listric normal fault domains. The deposit extends for 350m along strike and 100 to 200m down dip. Ore is confined to hanging wall of quartz monzonite sills which extend to a maximum depth of 70m from surface (the deepest on the property). Mineralization is bounded to the north by a post-ore NNE trending fault. Sulphide mineralization up to 2.3g/t Au over 14m remains open down dip below the lowermost proposed pit depth.

Transition and sulphide ore is limited to 12% of the total mineable reserve. Internal graphitic argillite is not preg-robbing and will not likely have any affect on oxide reserves.

Rock types are dominantly oxidized quartz monzonite (LAQM) intercalated with argillite (ARG). Gold mineralization extends to less oxidized LAQM and unoxidized AQM and ARG in which sulphides are preserved. Minor and local narrow veins of semi-massive sulphides, including semi-massive stibnite, are hosted in LAQM within certain high grade sections of the Lucky Zone.

3.6.6 Blue and Pacific

The Blue and Pacific Zones are atypical to the property in that the dominant ore host is a gently dipping interbedded sequence of shale and sandstone overlying graphitic argillite. Mineralization also occurs within thin (<10m) flat lying quartz monzonite sills, but comprises less than 25% of the total ore reserve in both pits. Chert pebble conglomerate (CPC) conformably overlies the auriferous clastic sequence and is generally unmineralized. In the Blue Zone broad south vergent folding appears to control mineralization. Higher grade mineralization, averaging 6 g/t, is confined to the hinge of an isoclinal synform extending for 200 metres along strike.

The Blue and the Pacific orebodies have strike lengths of 350m and 450m respectively extending down dip variably from 50 to 150m. Depth of oxidation is comparatively shallow at only 25 meters. Transition ore comprises 9% of the Blue and 25% of the Pacific mineable reserves. Internal graphitic sediments are sparse in the oxide portions of both zones, and preg-robbing is not likely to occur.

Auriferous shale and sandstone typically contain trace to 2% very fine grained pyrite and arsenopyrite. Oxidation in the sediments is less pervasive than in the quartz monzonite and thus minor sulphide has been preserved even at surface.

The Blue and Pacific Zones are ultimately bounded by the same structural controls as in the previously described deposits, the only difference being that the listric normal faults have been primarily localized along ARG - SH, SS GW contacts rather than LAQM - ARGG contacts. Sulphide and oxide mineralization remain open down dip and along strike in both deposits.

3.6.7 Moosehead

The Moosehead Zone exhibits both a structural and an ore-type transition from a north-northeast trending quartz monzonite sill, similar to that observed in the Canadian-Lucky trend, to a west-northwest trending interbedded argillite, shale, sandstone and greywacke system similar to that seen in the Blue zone. Ninety-five percent of the mineable reserve is hosted within quartz monzonite.

The emplacement of the quartz monzonite sill appears to have invaded a pre-existing NNE trending fault (possibly tear faults related to early Cretaceous thrust faulting) which dips moderately to the southeast (~045°). Oxidation within the sill is limited to a depth of 10 to 20m therebylimiting tonnages amenable to gold recovery by cyanide leach.

East of 19,200E the primary structural ore control changes from a NNE trending fault to a WNW trending gentle dipping imbricate listric fault.

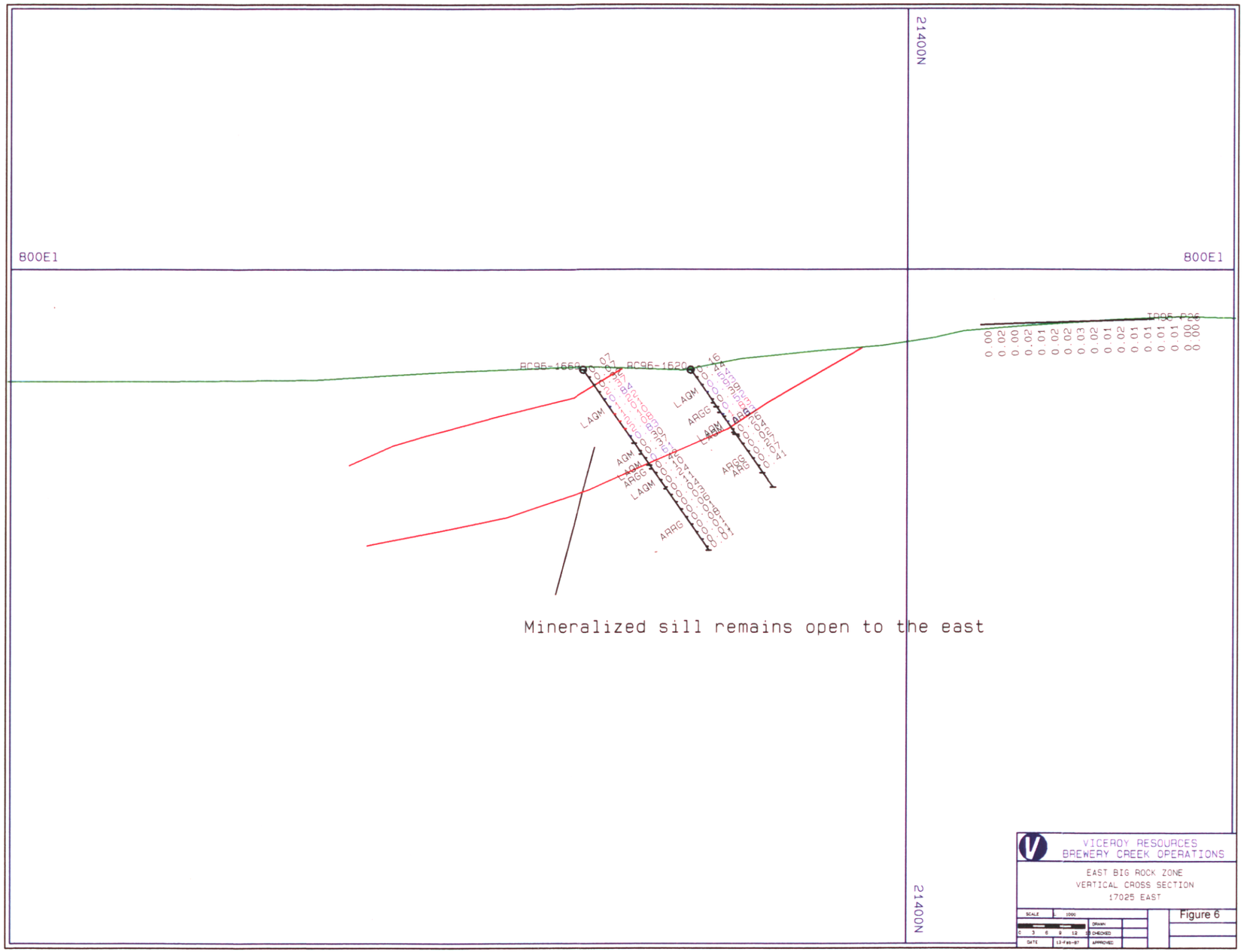
Both oxide and sulphide mineralization remain open down dip and along strike to the east.

3.7 Exploration Zones; 1996 Summary of Work, Significant Results and Recommendations for 1997 Work

3.7.1 West and East Big Rock Zones

A total of 45 RC holes for 2,767 metres were drilled in the West and East Big Rock Zones, expanding upon open ended oxide mineralization along strike. Geological oxide reserves for the West and East Big Rock Zones now stand at 1.338 million tonnes at 1.07 g/t Au and 1.204 million tonnes at 0.95 g/t Au respectively (See Table 6). A brief summary of the significant results and geological description of the deposits follow. A complete set of cross sections and plan maps used for reserve calculations in each zone are available at the minesite. Representative cross sections across the eastern edge of each zone (Figures 6 and 7) are included on the following pages to emphasize exploration potential along strike.

In the West Big Rock Zone eight step-out holes for 370 metres were drilled along strike and down dip. RC96-1575 and 1576 on the east end of the West Big Rock Zone intersected 0.6 g/t Au across 8 metres at depths ranging from 24 to 36 metres. Although the zone is relatively low grade, oxidized sill thicknesses remain broad and require further drilling along strike to the east. Step out hole RC96-1579 to the west failed to intersect LAQM or any significant mineralization, defining the western limit of the deposit. DDH96-105 was drilled 125 metres south of the zone to test for higher grade sulphide potential down dip. Although the hole failed to intersect any significant mineralization at depth it returned a 3.9 metre intersection of 1.0 g/t Au from 1.5 to 5.4 metres. Trenching in 1997 is recommended to assess whether this narrow oxide interval represents a parallel mineralized structure south of the main oxide deposit.



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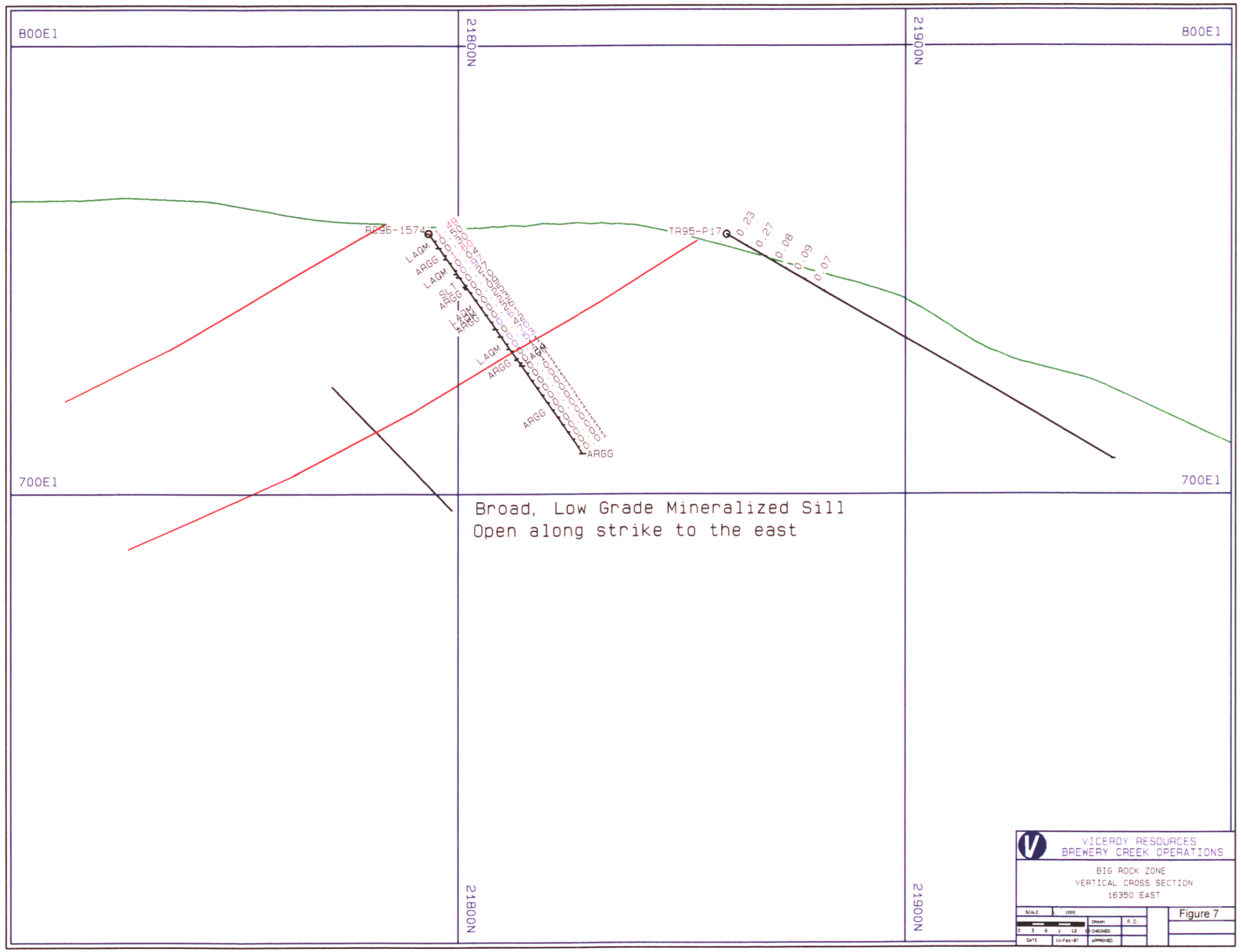

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In the East Big Rock Zone 37 holes for 2,397 metres were drilled and increased the mineralized strike length 75 metres grid west and 150 metres grid east. Due to steep west facing topography along the western edge of the deposit and the easterly striking, curvilinear dip of the bounding listric fault (steeply dipping near surface, shallowing to a gentle dip at depth) mineralization is interpreted to daylight at approximately 16,600E marking the western extent of the deposit. To the east the mineralized sill appears to be offset 250 metres to the southeast along a dextral strike slip fault. The narrow mineralized sill thickness between 16900E and 17000E may be the result of drilling acute to the strike of the post ore structure. Drill holes RC96-1620 and 1669, defining the offset portion of the mineralized sill returned 14 metre widths averaging .78 g/t Au (2-16m) and 1.49 g/t Au (6-20m) respectively. These intersections are the most extensive throughout the entire zone and remain open to the east. Hole RC96-1671, 100 metres to the southeast, intersected narrow sulphide mineralization (1.0 to 1.4 g/t Au) at a depth of between 44 and 56 metres. The surface projection of this mineralization to the north would define an easterly striking sill similar to the one defined between 16600E and 16900E, suggesting an abrupt offset along the interpreted NW trending dextral fault. An early drill program in 1997 is highly recommended to expand upon the wide open strike length to the east.

The West and East Big Rock Zones exhibit lithological and structural controls similar to the Canadian Zone. Mineralization is hosted exclusively within LAQM sills, intercalated with cherty graphitic argillite. Maximum mineralized sill thicknesses are 26 metres and 14 metres in the Big Rock and East Big Rock Zones respectively. Mineralization extends for 300 metres along strike and dips moderately (30-55°)to the south in both zones. Oxide mineralization, intersected as deep as 90 metres, remains open along strike to the east in both zones. A north west trending creek valley grid north of the mine camp facilities separates the two zones, suggesting that recent erosion has removed part of what was once a continuous deposit.

The deposits are classified as oxide based exclusively on the presence of pervasive limonite and rare sulphides within mineralized sills. Metallurgical testwork is needed in order to determine tangible cyanide leach recoveries. Rare fine grained pyrite, totalling less than 0.5%, are preserved within mineralized sills. Visible stibnite veining is common. The presence of pervasive oxidation lying well above the paleo water table (drilling to date has not intersected water within 100 metres from surface) indicates that the preg robbing tendencies of graphitic argillite would be very limited.

3.7.2 South Canadian Zone

Two RC holes for 100 metres and one diamond hole for 319 metres were drilled 300 metres south of the Canadian Pit on the north facing slope of Laura Creek Valley to test gold in soil anomalies associated with north dipping intercalated graphitic shale, silty shale and LAQM sills. North dipping structure and stratigraphy in this area showed promise for dip slope mineralization similar to the Reserve Trend across the valley. Unfortunately drilling failed to intersect any significant mineralization. DDH96-87 intersected a .25 metre Quartz/stibnite stockwork zone averaging only 1.6 g/t Au (172.9 to 173.14m). (See Plates 3 and 4)

In excess of three hundred metres of Earn Group siliclastics and quartz monzonite sills were drilled in DDH96-87. Road River Group Steel Formation found approximately 150 metres at depth in the Canadian Zone appears to be down dropped greater than 100 metres on the south side of Laura Creek. Evidence of this displacement is supported by a horizontal thrust contact between Steel Formation Siltstone and underlying Earn Group silty shales and sandstones at 19400E/19600N. This contact appears to represent the down dropped extension of the interpreted thrust fault, 700 metres south along a

southeasterly trending ridge (See Plate 2). A graphitic zone located midway between the two thrust contacts, trending sub parallel to Laura Creek may represent a major north dipping normal fault which has downdropped allochthonous Steel Formation siltstone and Earn Group siliclastics by as much as 200 metres. The confined, wedge shaped pattern of Earn Group Rocks within Laura Creek Valley, bordered to the north and south by gentle north dipping Road River sediments, suggests that the drainage may represent the axis of a large graben structure. Gold in soil anomalies correlate with LAQM sills and the easterly trending graphitic fault zone implying a possible north dipping analogue to the Reserve Trend. Poor drill results in 1996 may have been due to drilling too far down dip along the inferred north dipping graphitic fault. Soil anomalies in the area of drilling occur in permafrost and may have been transported considerable distances downslope from the south. Future work in 1997 will focus on detailed soil sampling, mapping and trenching along this graphitic fault in hopes of defining dip slope oxide mineralization.

3.7.3 North Slope and North Golden Zones.

A total of four RC holes for 426 metres and four core holes for 785 metres were drilled in the North Slope and North Golden Zones approximately one kilometre north of the Reserve Trend. Drilling focused on testing the down dip and strike length continuity of mineralization within the calcareous Road River Steel Formation. (See Plates 5, 6, 7 and 8)

RC drilling in the North Slope Zone helped to define an easterly striking, shallow southwest dipping (088°/30°) mineralized zone between 20300E and 20690E. Grades as high as 14 g/t Au over 2-4 metres are common within the mineralized zone. RC96-1665 along section 20690E returned the most extensive intersection to date averaging 2.56 g/t Au over 16 metres (88-104m). This intersection remains open down dip and along strike to the east. Mineralization is stratabound, hosted exclusively within interbedded pyritic siltstone and graphitic shale. Alteration is very subtle showing little evidence of fracturing, structural deformation or silicification. Fine grained pyrite, up to 5%, is commonly found disseminated throughout the siltstone matrix. The bounding footwall structure appears to be tectonized graphitic argillite commonly intruded by quartz monzonite sills which are weakly mineralized averaging 0.25 to 0.5 g/t Au. Where sills are absent in the footwall the graphitic argillite is found in contact with massive chert suggesting that competency contrasts may play an important role in localizing shear and extension within the stratigraphic section. Graphitic argillite beds, up to 25 metres thick, also overlie the more extensive mineralized zones (i.e. RC96-1665) and may act as cap rocks, concentrating ascending hydrothermal solutions. Core hole DDH96-86 along section 20300E extended the 10 to 20 metre thick footwall succession of quartz monzonite sills and graphitic argillite 100 metres down dip. However, only a 6 metre interval averaging 1.2 g/t Au was intersected in DDH96-86, limiting the down dip extent of sediment hosted mineralization to less than 75 metres; a characteristic similar to the Reserve Trend. DDH96-85 intersected 2.63 g/t Au over 13.8 metres from 255.8 to 269.6 metres within an intrusive hosted fault breccia. Multi-stage brecciation, incorporating intensely altered fragments of siltstone and shale may represent an explosive, deep seated vertical feeder structure. Further drilling is required to determine its orientation and relationship, if any, with the sediment hosted mineralization up dip to the north.

Drilling in the North Golden Zone attempted to define the extent of a 10 metre intersection averaging 2.5 g/t Au in DDH90-16 (See Plates 7 and 8). Drill results were disappointing returning narrow erratic intersections (< 4 metres) averaging less than 2.0 g/t Au along strike and down dip. Mineralization is dominantly fracture controlled, hosted within an interbedded sequence of stockworked chert and pyritic siltstone. A thick interbed of graphitic argillite (> 50 metres in places) forms the footwall to the

mineralization and is commonly intruded by quartz monzonite sills near the contact with the overlying siltstone and chert. The intercalated sills and graphitic argillite form a moderate south dipping footwall surface which progressively flattens to horizontal, 100 metres down dip (i.e. a listric normal fault). Although the geological setting is similar to the North Slope Zone, the structural setting is more indicative of the Reserve Trend.

In 1997 drilling will focus on extending the strike length of the North Slope Zone to the east.

3.7.4 Sulphide Drilling; Reserve Trend

A total of seven core holes for 1,424 metres and two RC holes for 176 metres were drilled in the Kokanee, South Golden, South Canadian, Pacific, Blue and West Big Rock Zones to test for down dip, higher grade sulphide mineralization. Drilling returned significant assays in all zones except the South Golden, Blue and West Big Rock Zones. Highlights from the drilling program are as follows:

Zone	Hole ID	Grade (g/t)	Width(m)	Interval (m)
Kokanee	DD96-91	1.64	22.8	30.7 - 50.5
Kokanee	DD96-92	3.38	5.8	88.9 - 94.7
Kokanee	DD96-92	2.15	12.7	109.2 - 121.9
Kokanee	DD96-93	1.96	14	60.8 - 74.8
Kokanee	DD96-94	3.08	6.4	29 - 35.4
Kokanee	DD96-94	1.39	20.6	46.4 - 67
Pacific	DD96-102	4.39	7.7	63.3 - 71
S. Canadian	DD96-106	2.01	11.1	59.5 - 70.6
S. Canadian	DD96-107	2.18	4.6	113.7 - 118.3

3.7.4.1 Kokanee Zone

Core drilling in the Kokanee Zone targeted the immediate down dip sulphide potential along sections 21225E, 21255E and 21500E (See Plates 9, 10 and 11). Core holes DD96-91 through 94 extended AQM hosted mineralization from 25 to 100 metres down dip. Grades averaged between 1.5 g/t over 25 metres to 3.08 g/t over 6 metres. Mineralization continues to conform to a moderate (45-55°) south dipping orientation bounded by graphitic argillite, similar to most oxide zones delineated along the Reserve Trend. Although altered sill thicknesses remain extensive at depths of 150 metres, grades remain comparable to oxide deposits. DD96-90 was drilled immediately down dip along the main oxide deposit in the Kokanee Zone targeting the potential for a narrow high angle feeder structure. The hole intersected a 1.5 metre thick brecciated dyke averaging 1.54 g/t from 124.3 to 125.8 metres. The relatively low grade and limited width of the dike compared to the more extensive mineralized sill thicknesses above suggest two things: Lateral strike-slip structures appear to be the dominant control for sill emplacement and associated mineralization and/or the weak structurally imbricated graphitic argillite may form dilettante windows within the stratigraphic section, allowing thick intrusive sill complexes to form from confined vertical structures (intrusive conduits) at depth. Evidence of the latter scenario is found in the Kokanee Bulk Trench where a steeply dipping 0.5 metre thick intrusive dike expands into a 5 metre thick

sill within a vertical distance of 3 metres. Deep drilling along section 21225E also indicates that the respective graphitic footwall structures bounding the two parallel mineralized zones in the Kokanee do not merge down dip at depth but are most likely connected down plunge or along strike to the east. Further deep fence drilling down dip and along strike of Section 21225E is needed to define higher grade structural zones, within the broad lower grade mineralized sills, which can be traced down plunge toward major high angle feeder structures.

3.7.4.2 Canadian Zone

Two core holes (DD96-106 and 107) for 300 metres were drilled down plunge from the Canadian Pit to test the continuity of open ended sulphide mineralization and the validity of Laura Creek representing the axis of a high angle feeder fault for quartz monzonite sills and associated mineralization. Although DD96-106 and 107 returned intersections of 2 g/t Au across 11.1 and 4.6 metres in AQM respectively, mineralized sill thickness' become more confined at depth and steepen from 15^0 to 45^0 beneath Laura Creek (See Plate 4). Deeper drilling south of Laura Creek is needed to determine whether the steeper dip is controlled by a pre-existing high angle fault or whether the sill maintains its moderate south dip at depth. If sill emplacement and associated mineralization are indeed controlled by a high angle fault, replacement style mineralization in the stratigraphically lower calcareous Steel Formation may prove to be a more economic sulphide target.

3.7.4.3 Pacific Zone

One hole (DD96-102) for 96 metres was drilled in the Pacific Zone to test the strike continuity of shale hosted sulphide mineralization intersected in RC93-893 (2.59 g/t Au over 12 metres from 66 to 78 metres). DD96-102, 25 metres grid east of RC93-893, intersected 4.39 g/t Au over 7.7 metres from 63.3 to 71 metres. The two intersections occur roughly at the same elevation and appear bounded by a chert pebble conglomerate footwall (See Plates 12 and 13). Structural and lithological controls to mineralization appear similar to the Blue Zone where isoclinal south vergent folded silty shales, bounded by coarser grained greywacke and chert pebble conglomerate, host higher grade mineralization averaging 6 g/t Au. Further core drilling down dip and along strike from these two intersections is needed to define easterly trending south vergent fold hinges and associated north dipping axial planar cleavage which may control the location of a higher grade sulphide deposit.

3.7.4.4 Blue Zone

One hole (DD96-104) for 87 metres was drilled to test the down dip sediment hosted sulphide potential along section 18549E (See Plate 14). The hole intersected a narrow 0.75 metre interval averaging only 1.0 g/t Au between 68.5 and 69.25 metres. The poor results emphasizes that although gently dipping graphitic structures ultimately bound the mineralization, well developed easterly striking vertical strike slip fracture zones or axial planar cleavage in the hanging wall of the tectonized graphitic argillite appear to form the major conduits for auriferous hydrothermal solutions .

3.7.4.5 South Golden

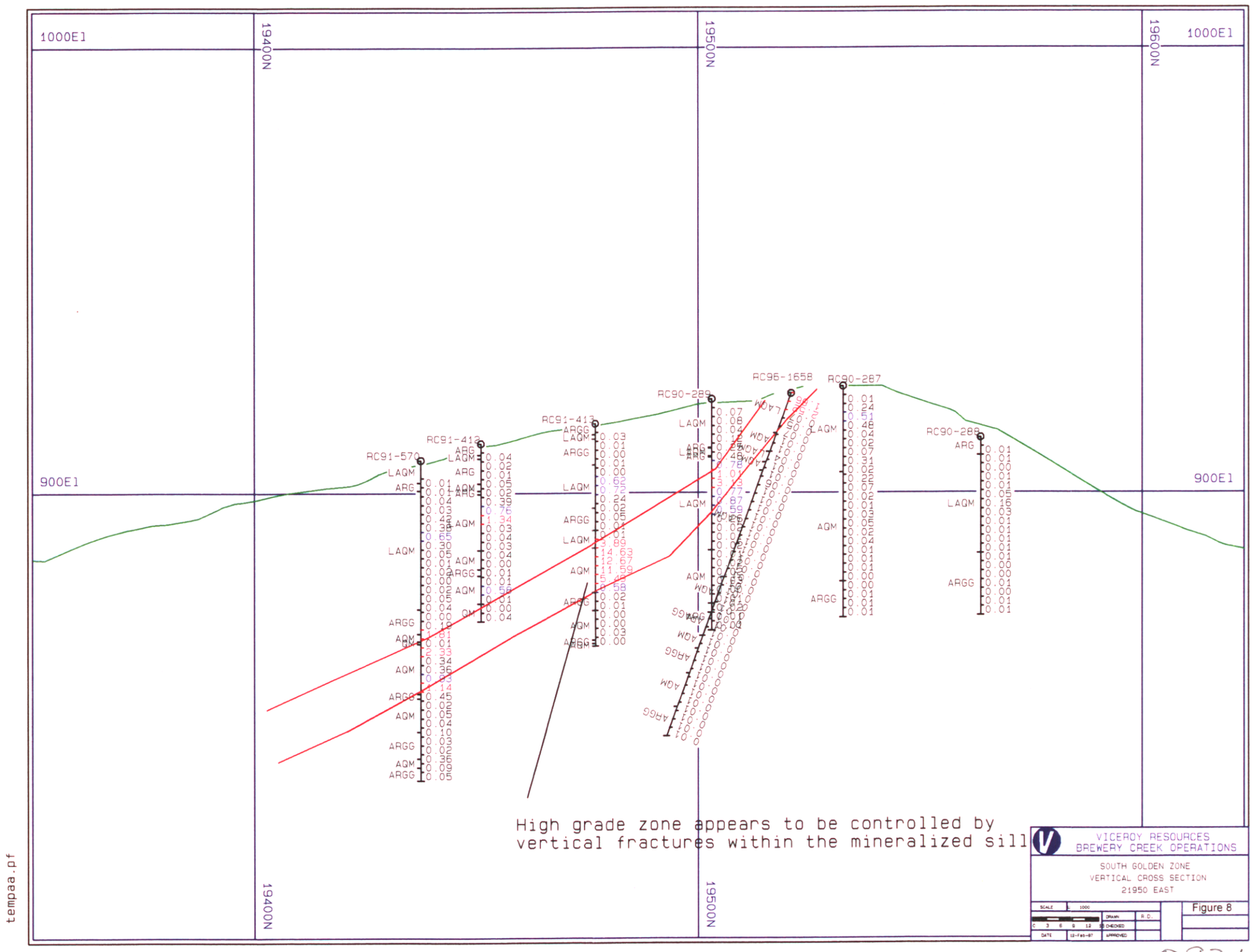
Two RC holes (RC96-1658 and 1659) for 176 metres were drilled in the South Golden Zone to assess the potential for moderate to steep north dipping feeder structures beneath a local high grade intersection in RC91-413 averaging 9.7 g/t Au over 10 metres (See Figures 8 and 9). Both holes failed to intersect any significant mineralization at depth. Local structural controls are believed to be vertical, confined withina moderate south dipping sill. A major fault of unknown orientation and displacement between 22025E and 22050E appears to cut off mineralization along strike to the east. Detailed soil sampling, trenching, and drilling are required to delineate possible offset extensions.

3.7.5 Soil Sampling; Lucky - Sleemans Trend

A total of 140 line kilometres of survey grid were resampled and mapped along the anomalous trend, previously defined by Norex, between the Lucky and Sleemans Zones. Cut baselines totalling 27 line kilometres were also extended to the eastern limit of the property to provide adequate survey control. As well, construction and upgrading of roads provided additional access south of the Sleemans Zone. The revised property plan map included as Plate 1 shows the location of soil sampling and linecutting. Soil samples were taken every 25 metres on lines spaced 100 metres apart. Notes on colluvium, surficial geology, vegetation, topography and permafrost were recorded for each soil pit. The assay database of all soil samples collected on the property has been updated with the 1996 data.

Anomalous soil results ranging from 20 to 15,800 ppb Au define a broad, five kilometre long trend extending from the Lucky Zone south eastward toward the Klondike River Valley (See Plate 15). The anomalous trend correlates with the general strike of the stratigraphic section consisting of quartz monzonite sills and an intercalated sequence of graphitic argillite and Steel Formation siltstone. Outcrop is very scarce consisting of nonauriferous hornfelsed sediments, chert and biotite monzonite intrusives along the higher ridge tops. Due to the relatively steep north to northeast facing topography permafrost underlies up to 50% of the anomalous trend. Although mineralized zones defined by Noranda were reproduced, most of the stronger anomalies lie to the north of historical trenching and drilling. The absence of Earn Group rocks in the area also suggests that the mineralizing system is stratigraphically lower than the Reserve Trend.

Work in 1997 will focus on establishing reliable road access to the more prominent gold anomalies (i.e. 15,800 ppb; 24,700E/18850E). Systematic excavator trenching will be done in early summer to define the structural orientation and lithological controls to mineralization, followed by RC drilling later in the summer and fall. In areas of extensive permafrost, surface trenching is not cost effective and will most likely be substituted for close spaced fence drilling across anomalous trends.



VICEROY RESOURCES
BREWERY CREEK OPERATIONS

SOUTH GOLDEN ZONE
VERTICAL CROSS SECTION
21950 EAST

Figure 8

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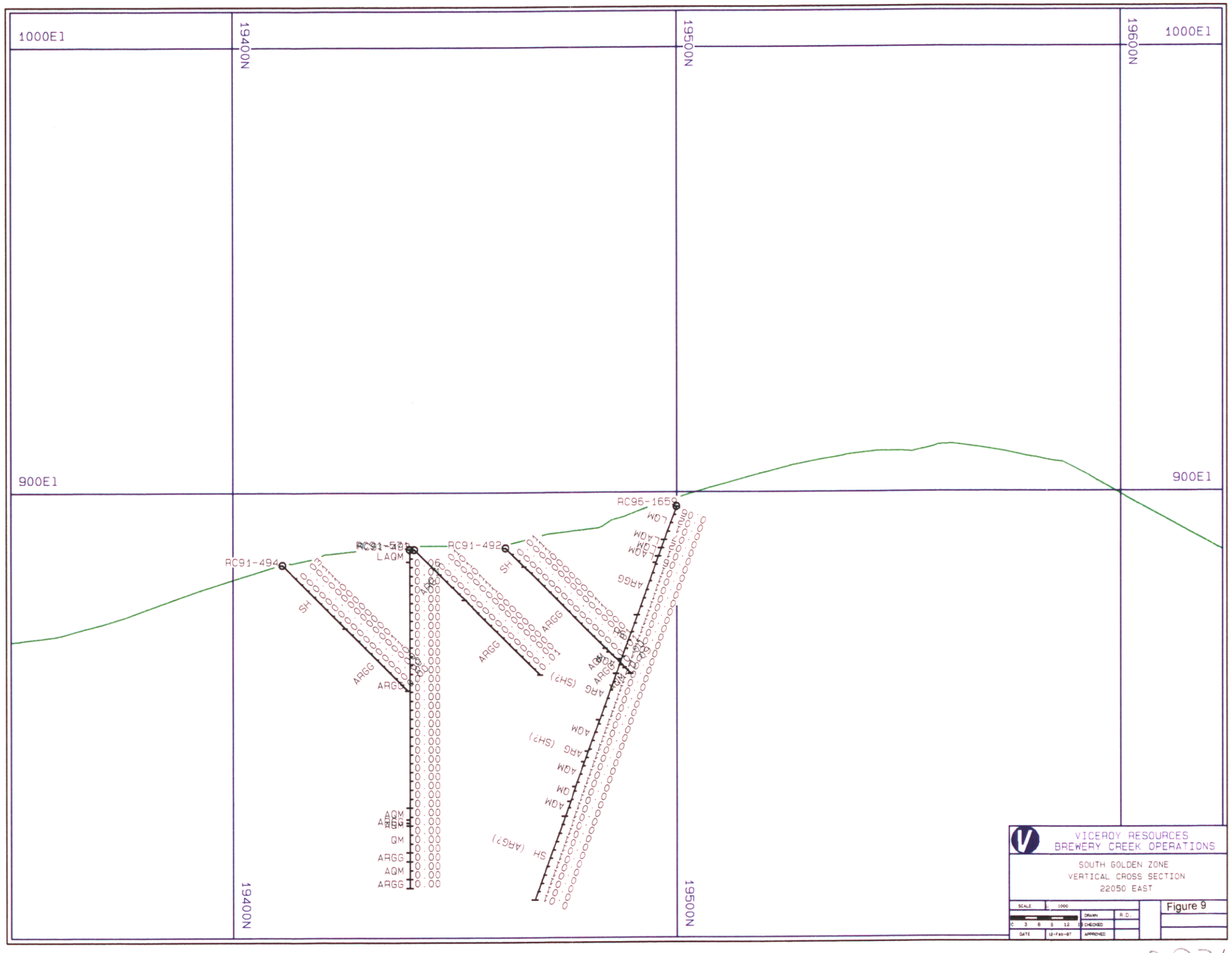
(6)



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CHAPTER FOUR: GEOCHEMISTRY

4.1 Introduction

The Brewery Creek deposit was discovered while investigating regional stream sediment geochemical anomalies. Geochemistry has subsequently played a central role in exploration and a considerable database of soil and lithogeochemical data has been accumulated.

4.2 Lithogeochemistry

In excess of 50,000 samples of reverse circulation drill chips, trench samples and drill core have been analyzed for gold, and a lesser number for a variety of other elements (typically As, Sb, Hg, Pb and Zn). Numerous 30 element ICP scans have also been completed on these samples, and thus the geochemical characterization of the ore zones and property lithologies is well known. The ores are elevated in gold but also contain anomalous arsenic and, in places, antimony. Barium is locally anomalous and a broad mercury signature is characteristic.

4.3 Soil Geochemistry

Soil geochemistry has been an important exploration tool and the results of these surveys provide insights into the geochemistry of the ore systems.

The hydrothermal system at Brewery Creek is anomalous in gold, arsenic, antimony and mercury. Enriched zinc and lead values are characteristic of Earn Group sediments and this association further expands the ability to map potentially favorable targets. Silver is weakly anomalous and erratic, associated with both zinc in the sediments and gold within the epithermal system. A total of 8340 soil samples were collected on the property between 1988 and 1992. Samples were acquired at 50m intervals on either 100 or 200m spaced lines over mineralized zones. Four hundred meter line spacing was utilized in the southwestern and southcentral part of the property. The samples were analyzed for an extensive suite of elements including gold, silver, antimony, arsenic and mercury. Approximately two thirds of the soil samples were also analyzed by ICP scan for a further 30 elements.

A total of 10,718 soil samples were collected between 1994 and 1996 across previously sampled portions of the exploration grid, with less than 10% of the total used to extend anomalies south of the Classic Zone and West of the Big Rock Zone. Soil samples were collected at 25m intervals in areas of moderate topographic relief or at 12.5m intervals in subdued relief on lines spaced 100m apart. Bedrock and surficial geology were also mapped at each sample site during this latter program.

4.3.1 Gold

Gold-in-soil geochemistry defines two major trends (See Plate 15).

i) An east trending 12km by 2km anomaly delineates the Big Rock, Pacific, Blue, Moosehead, Canadian, Fosters, Kokanee, Golden, Lucky, Bohemian, Schooner and Sleemans Zones. This anomaly subparallels the outline of the quartz monzonite sills and associated listric normal faulting. The trend is abruptly cut off to the east at Golden Creek, which may represent a post-mineralization fault.

ii) A 135° trending anomaly parallels a strong photo-geologic lineament extending from the Pacific Zone through the Classic Zone. Gold values are strongest in the Classic Zone where a sub-vertical normal fault cross-cuts a hornblende monzonite stock.

4.3.2 Arsenic

There is a strong positive correlation between arsenic and gold with an approximate relationship of 1 ppm As = 1 ppb Au. Arsenic-in-soil geochemistry is slightly more dispersed, but reinforces, and in some places better defines the mineralized structural trends (i.e. Classic Zone).

4.3.3 Antimony

Antimony is the least mobile element, apparently restricted to the main 12km east-trending gold zone. Antimony, in the form of stibnite, occurs as discontinuous stibnite veins cross-cutting mineralized quartz veinlets and is found in all mineralized areas except the Classic and Moosehead Zones. This sporadic association with gold implies that antimony may represent a later hydrothermal event which occupied some of the same structures as gold. As a general statement, elevated antimony may accompany gold, but does not always, and can occur independently of gold.

4.4.4 Mercury

Of those elements analyzed, mercury is the most widely dispersed element, forming a regional anomaly, but still reinforcing the main east-west trending gold-arsenic signature. Mercury values in individual pit areas are not necessarily elevated above the regional anomaly. Like antimony, mercury is absent from the Classic Zone. The absence of both along the Classic Zone gold-arsenic trend implies that mineralization along this structure may be lower level than the east-west listric normal and strike-slip faulting controls in the main trend.

CHAPTER FIVE: CONCLUSION

The 1996 Brewery Creek exploration program included detailed soil sampling and mapping between the Lucky and Sleemans Zones, oxide drilling in the East and West Big Rock, North Golden and South Canadian Zones and deeper sulphide drilling along the Reserve Trend and North Slope Zone. Highlights from the program are as follows:

- Geological oxide reserves were increased in the East and West Big Rock Zones. Proven, Probable and Possible oxide reserves now stand at 915,000 tonnes at .95 g/t Au and 1,200,000 tonnes at 1.2 g/t in the East and West Big Rock Zones respectively. Potential to increase oxide reserves is considered excellent as mineralized sill thicknesses averaging 1.46g/t Au over 14 metres remain wide open along strike to the east.

- Although no significant mineralization was intersected in the South Canadian Zone, soil anomalies along the north facing slope of Laura Creek Valley remain unresolved. New geological and structural information suggest that Laura Creek may define the axis of a large graben structure which has down dropped and preserved an intercalated sequence of Earn Group siliclastic rocks and altered quartz monzonite sills. The presence of north dipping intrusive-sediment contacts show potential for defining dip slope oxide mineralization similar to the Reserve Trend.

- Drilling in the North Slope Zone confirmed continuity of mineralization along a 300 metre strike length in the calcareous Steel Formation. Drill hole intersections averaging 2.56 g/t Au over 16 metres remain wide open along strike to the east.

- Sulphide drilling down dip along the Reserve Trend returned similar grades (1.5 g/t Au) as most oxide deposits. Mineralized sill thicknesses remain extensive in the Kokanee Zone (10-25 metres) but appear to steepen and narrow at depth in the Canadian Zone beneath Laura Creek. Deeper drilling south of Laura Creek is needed to confirm whether sill emplacement is sourced from narrow high angle feeder structures or moderate south dipping listric normal faults. If high angle feeder structures are defined, where they cross cut lower Road River Group calcareous stratigraphy may prove to be a more economic sulphide target.

- Soil sampling and mapping between the Lucky and Sleemans Zones defined a broad, south easterly trending, five kilometre anomalous trend. Soil results ranging from 20 to 15,800 ppb Au correlate with intercalated quartz monzonite sills, graphitic argillite and calcareous Steel Formation siltstone. Although anomalous areas previously defined by Norex were reproduced, most of the stronger anomalies lie to the north of historical trenching and drilling. The absence of Earn Group siliclastic rocks also suggests that the mineralizing system is stratigraphically lower than the Reserve Trend.

Work in 1997 will focus on expanding upon the geological oxide reserve base as well as evaluating the potential for a higher grade sulphide resource. Areas which provide the best potential to increase mineable oxide reserves, in order of priority, include: The East and West Big Rock Zones, South Canadian Zone and the Lucky-Sleemans geochem anomaly. Work will include soil sampling, systematic trenching and RC drilling to expand upon and ultimately define oxide deposit limits. Aggressive step-out drilling along strike to the east in the North Slope Zone will also be given top priority as mineralization remains wide open along strike to the east. Deeper drilling down dip and along strike of the Reserve Trend will continue in order to define the location and orientation of high angle feeder structures. Once the location and orientation of these structures have been defined, emphasis will be placed on where they cut through the stratigraphically lower calcareous Steel Formation.

References

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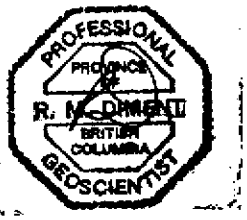
STATEMENT OF QUALIFICATIONS

I, Richard Mark Diment, of R.R. #1, Site 20, Comp 282, Whitehorse in the Yukon Territory, do hereby certify that:

- I am a Senior Geologist with Viceroy International Exploration with offices at R.R. #1, Site 20, Comp 282, Whitehorse and 1658 Cole Boulevard, Suite 285, Denver, Colorado.
- I am a graduate of the University of British Columbia, B.Sc. Geology (1986), and I have practiced my profession continuously since graduation.
- I am a member in good standing of the Association of Professional Engineers, Geoscientists and Geophysicists of British Columbia.
- I am the author of the report entitled "Assessment Report on the BDM, EEL, ELE, FLEE and LEE Claims, Dawson Mining District, N.T.S. 116 B/1," dated March 15, 997.
- I have supervised the work carried out on the property described in this report.

DATED at Whitehorse, Yukon, this 10th day of March, A.D., 1997.

Respectfully submitted,



R.M. Diment, P. Geo..

STATEMENT OF COSTS

Reverse Circulation Drilling	$301,512
Diamond Drilling	$371,922
Trenching	$39,294
Soil Geochemistry	$54,541
Road/Drill Pad Building	$75,708
Field Vehicles	$25,585
Assays	$101,199
Wages	$265,279
Camp/Office	$15,130
Total	**$1,250,170**

Brewery Creek Exploration
Drill Hole Summary
1996

Hole ID	Pre-Drill	Zone	Month	Easting	Northing	Elev (m)	Depth (m)	Azimuth	Incl.	Comments
RC96-1565	PBR-16	East Big Rock	July	16645	21634	746	80	334	-55	
RC96-1566	PBR-14	East Big Rock	July	16667	21632	755	72	334	-55	
RC96-1567	PBR-8	East Big Rock	July	16800	21606	774	52	334	-55	
RC96-1568	PBR-7	East Big Rock	July	16826	21596	775	80	334	-55	
RC96-1569	PBR-6	East Big Rock	July	16850	21605	776	50	334	-55	
RC96-1570	PBR-5	East Big Rock	August	16877	21517	770	54	334	-55	
RC96-1571	PBR-3	East Big Rock	August	16900	21524	770	74	334	-55	
RC96-1572	PBR-2	East Big Rock	August	16925	21531	773	76	334	-55	
RC96-1573	PBR-1	East Big Rock	August	17007	21420	779	62	334	-55	
RC96-1574	PBR-17	West Big Rock	August	16350	21794	756	60	334	-55	
RC96-1575	PBR-18	West Big Rock	August	16325	21782	762	54	334	-55	
RC96-1576	PBR-19	West Big Rock	August	16300	21763	768	78	334	-55	
RC96-1577	PBR-21	West Big Rock	August	16271	21683	774	60	334	-55	
RC96-1578	PBR-44	West Big Rock	August	15915	21838	759	66	334	-60	
RC96-1579	PBR-45	West Big Rock	August	15890	21885	756	42	334	-60	
RC96-1580	PBR-40	West Big Rock	August	15965	21712	764	10	334	-45	Hole abandoned. Mechanical reasons
RC96-1581	PSC-1	South Canadian	August	19200	19350	800	50	334	-90	
RC96-1582	PSC-3	South Canadian	August	19200	19425	800	50	334	-90	
RC96-1583	PNG-1	North Golden	August	21750	20775	1000	66	334	-60	66 metre drill string stuck($25,000)
RC96-1585	PNG-2	North Golden	August	21550	20380	1000	103	334	-60	
RC96-1600	PBR-12	East Big Rock	August	16698	21657	758	58	334	-60	
RC96-1601	PBR-13	East Big Rock	August	16698	21628	761	82	334	-64	
RC96-1602	PBR-10	East Big Rock	August	16752	21637	767	60	334	-55	
RC96-1603	PBR-4	East Big Rock	September	16620	21672	780	57	334	-55	
RC96-1604	PBR-9	East Big Rock	September	16777	21585	772	88	334	-55	
RC96-1605	PBR-11	East Big Rock	September	16752	21604	769	77	334	-55	
RC96-1606	PBR-50	East Big Rock	September	16800	21645	772	43	334	-55	
RC96-1607	PBR-52	East Big Rock	September	16825	21645	773	40	334	-55	
RC96-1609	PBR-54	East Big Rock	September	16850	21645	777	26	334	-55	Hole caving
RC96-1610	PBR-48	East Big Rock	September	16645	21672	749	44	334	-55	
RC96-1611	PBR-46	East Big Rock	September	16620	21672	729	74	334	-55	
RC96-1612	PBR-47	East Big Rock	September	16620	21645	733	60	334	-55	
RC96-1613	PBR-49	East Big Rock	September	16645	21606	748	84	334	-55	
RC96-1614	PBR-15	East Big Rock	September	16667	21618	757	66	334	-55	Plugged rods
RC96-1615	PBR-51	East Big Rock	September	16800	21575	774	79	334	-55	
RC96-1616	PBR-53	East Big Rock	September	16825	21570	776	84	334	-55	
RC96-1617	PBR-55	East Big Rock	September	16850	21580	776	58	334	-55	
RC96-1618	PBR-59	East Big Rock	September	16925	21557	783	70	334	-55	
RC96-1619	PBR-62	East Big Rock	September	17007	21395	778	60	334	-55	
RC96-1620	PBR-63	East Big Rock	September	17032	21350		32	334	-55	Hole caving
RC96-1621	PBR-61	East Big Rock	September	16982	21494	778	60	334	-55	
RC96-1622	PBR-56	East Big Rock	September	16850	21527	773	84	334	-55	
RC96-1623	PBR-57	East Big Rock	September	16877	21490	763	64	334	-55	
RC96-1624	PBR-58	East Big Rock	September	16900	21472	762	96	334	-55	
RC96-1658	Sx11G	South Golden	October	21950	19520		82	154	-70	
RC96-1659	Sx12G	South Golden	October	22055	19501		94	154	-70	
RC96-1665	Sx13NS	North Slope	October	20580	20934	1081	115	334	-63	
RC96-1666	Sx14NS	North Slope	October	20400	20908	1043	142	334	-60	
RC96-1667	PBR-67	East Big Rock	October	16570	21675	706	49	334	-55	
RC96-1668	PBR-68	East Big Rock	October	16570	21645	708	60	334	-55	
RC96-1669	PBR-64	East Big Rock	October	17030	21320	774	49	334	-55	
RC96-1670	PBR-65	East Big Rock	October	17080	21210	776	40	334	-55	
RC96-1671	PBR-66	East Big Rock	October	17080	21180	772	56	334	-55	
DDH96-85	PNS-1	North Slope	July-August	20400	20575	1025	299	334	-60	
DDH96-86	PNS-2	North Slope	August	20300	20856	1042	233	334	-60	
DDH96-87	PSC-3	South Canadian	August	19363	19450	770	319	334	-60	
DDH96-88	PNG-2	North Golden	August	21475	20710	1000	119	334	-60	
DDH96-89	PNG-4	North Golden	August	21475	20425	1000	134	334	-60	
DDH96-90	Sx8K	Kokanee	August	21225	19840	1036	200	334	-55	
DDH96-91	Sx4K	Kokanee	August	21225	19673	982	177	334	-55	
DDH96-92	Sx9K	Kokanee	August	21225	19575	974	227	334	-55	
DDH96-93	Sx5K	Kokanee	Aug-Sept	21505	19583	957	87	334	-72	
DDH96-94	Sx11K	Kokanee	September	21255	19673	982	84	334	-55	
DDH96-102	Sx3P	Pacific	September	17825	20363N	834	96	334	-55	
DDH96-103	PSC-3	South Canadian	September	19200	19425N	800	31	334	-55	Hole abandoned. Bad ground
DDH96-104	Sx1B	Blue	September	18545	20069N	778	87	334	-55	
DDH96-105	Sx2BR	West Big Rock	September	16225	21695	776	141	334	-55	
DDH96-106	Sx6C	Canadian	October/Novembe	19825	19680	780	138	309	-55	
DDH96-107	Sx15C	Canadian	November	19825	19670	780	156	129	-65	

November Summary:		1996 Year Summary:		Total # Holes Drilled	69
RC Holes	0	RC Holes:	53	Total # Metres Drilled	6000
RC Metres	0	RC Metres:	3472		
DD Holes	1	DD Holes:	16		
DD Metres	174	DD Metres	2528		

Brewery Creek Exploration
Drilling Summary; Significant Assays
1996

Hole ID	Pre-Drill	Zone	Grade (gpt)	Width (m)	From (m)	To (m)	Comments
1996 RC Holes							
RC96-1565	PBR-16	East Big Rock	0.58	26	34	60	Includes 8m of 0.96 gpt from 34-42m
RC96-1566	PBR-14	East Big Rock	0.87	12	0	12	
RC96-1566	PBR-14	East Big Rock	1.25	20	38	58	Includes 8m of 2.32 gpt from 46-54m
RC96-1567	PBR-8	East Big Rock	1.34	2	26	28	
RC96-1567	PBR-8	East Big Rock	0.80	10	36	46	Includes 2.28 gpt from 42-44m
RC96-1568	PBR-7	East Big Rock	0.68	12	34	46	Includes 1.56 gpt from 36-38m and 1.36 gpt from 42-44m
RC96-1569	PBR-6	East Big Rock	1.20	12	24	36	
RC96-1570	PBR-5	East Big Rock	0.65	8	32	40	
RC96-1571	PBR-3	East Big Rock	2.00	10	0	10	
RC96-1571	PBR-3	East Big Rock	0.65	6	28	34	
RC96-1571	PBR-3	East Big Rock	2.54	6	58	64	Includes 5.98 gpt from 58-60m
RC96-1572	PBR-2	East Big Rock	1.53	6	4	10	
RC96-1572	PBR-2	East Big Rock	1.07	6	42	48	Includes 2.17 gpt from 46-48m
RC96-1573	PBR-1	East Big Rock	1.05	4	6	10	
RC96-1573	PBR-1	East Big Rock	1.79	4	14	18	
RC96-1574	PBR-17	West Big Rock	0.82	12	0	12	Includes 1.49 gpt from 0-2m and 1.6 gpt from 6-8m
RC96-1574	PBR-17	West Big Rock	0.57	8	24	32	
RC96-1575	PBR-18	West Big Rock	0.55	8	28	36	
RC96-1575	PBR-18	West Big Rock	0.56	10	40	50	
RC96-1576	PBR-19	West Big Rock	3.37	4	50	54	Includes 4.80 gpt from 52-54m
RC96-1576	PBR-19	West Big Rock	0.89	4	66	70	
RC96-1577	PBR-21	West Big Rock	0.51	2	38	40	
RC96-1578	PBR-44	West Big Rock	0.84	4	44	48	
RC96-1585	PNG-2	North Golden	1.66	2	72	74	
RC96-1600	PBR-12	East Big Rock	0.84	14	20	34	Includes 4m of 2.16 gpt from 30-34m
RC96-1601	PBR-13	East Big Rock	1.09	8	6	14	
RC96-1601	PBR-13	East Big Rock	2.32	10	52	62	
RC96-1602	PBR-10	East Big Rock	1.30	4	26	30	
RC96-1619	PBR-62	East Big Rock	0.90	6	48	54	Includes 1.78 gpt from 50-52
RC96-1620	PBR-63	East Big Rock	0.78	14	2	16	Includes 4m of 1.33 gpt from 12-16m
RC96-1621	PBR-61	East Big Rock	1.92	10	12	22	
RC96-1622	PBR-56	East Big Rock	1.95	4	8	12	Includes 2.24 gpt from 10-12m
RC96-1622	PBR-56	East Big Rock	1.07	12	62	74	
RC96-1624	PBR-58	East Big Rock	1.77	6	70	76	Includes 4m of 2.34 gpt from 70-74m
RC96-1658	Sx11G	South Golden	2.09	4	0	4	
RC96-1665	Sx13NS	North Slope	2.56	16	88	104	
RC96-1666	Sx14NS	North Slope	2.80	4	100	104	
RC96-1667	PBR-67	East Big Rock	0.96	2	0	2	
RC96-1667	PBR-67	East Big Rock	1.19	2	16	18	0
RC96-1669	PBR-64	East Big Rock	1.49	14	6	20	
RC96-1671	PBR-66	East Big Rock	1.05	4	44	48	
RC96-1671	PBR-66	East Big Rock	1.43	2	54	56	
1996 Core Holes							
DDH96-85	PNS-1	North Slope	2.63	13.8	255.8	269.6	
DDH96-85	PNS-1	North Slope	0.54	10.3	275.1	285.4	
DDH96-86	PNS-2	North Slope	0.64	5.4	95.4	100.8	
DDH96-86	PNS-2	North Slope	1.17	2	125.7	127.7	
DDH96-86	PNS-2	North Slope	1.21	6	139	145	
DDH96-89	PNG-4	North Golden	1.38	2	9.8	11.8	
DDH96-89	PNG-4	North Golden	0.54	5	103.5	108.5	
DDH96-89	PNG-4	North Golden	0.79	8.2	113	121.2	
DDH96-90	Sx8K	Kokanee	1.54	1.5	124.3	125.8	
DDH96-91	Sx4K	Kokanee	1.64	22.8	30.7	53.5	Includes 3.2m of 5.26 gpt from 37.5-40.7m
DDH96-92	Sx9K	Kokanee	2.28	3.2	78.8	82	
DDH96-92	Sx9K	Kokanee	3.38	5.8	88.9	94.7	
DDH96-92	Sx9K	Kokanee	2.15	12.7	109.2	121.9	
DDH96-93	Sx5K	Kokanee	1.96	14	60.8	74.8	Includes 2 m of 5.66 gpt from 66.8 to 68.8m
DDH96-94	Sx11K	Kokanee	3.08	6.4	29	35.4	Includes 2 m of 6.09 gpt from 30.9 to 32.3m
DDH96-94	Sx11K	Kokanee	1.39	20.6	46.4	67	Includes 8 m of 2.31 gpt from 53.4 to 61.4m
DDH96-102	Sx3P	Pacific	2.47	1.1	40.6	41.7	
DDH96-102	Sx3P	Pacific	2.75	1.7	52.1	53.8	
DDH96-102	Sx3P	Pacific	4.39	7.7	63.3	71	
DDH96-104	Sx1B	Blue	1.19	2.3	7.9	10.2	
DDH96-105	Sx2Br	Big Rock	0.99	3.9	1.5	5.4	
DDH96-106	Sx6C	South Canadian	2.01	11.1	59.5	70.6	
DDH96-107	Sx15C	South Canadian	2.18	4.6	113.7	118.3	

12000E 13500E 15000E 16500E 18000E 19500E 21000E 22500E 24000E 25500E 27000E 28500E

25500N 24000N 22500N 21000N 19500N 18000N 16500N 15000N 13500N

Claim Group

West Big Rock

East Big Rock

Heap Leach Pad

Pacific

Blue

Morgenhead

North Slope

North Slope-North Golden Oblique

North Golden

Canadian

Fosters

Golden

Lucky

Bohemian

South Canadian

Canadian Oblique

Mining Lease

1996 Soil Survey Grid

Schooner

Sleemans

Classic

1996 Road Building and Upgrade

1996 Cut Lines

093601

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

PROPERTY PLANVIEW
1996 EXPLORATION WORK
DRILLHOLE & SOIL GRID LOCATIONS

SCALE 1: 15000
0 150 300 450 600 750
DRAWN R.D.
CHECKED
DATE 13-Feb-97
APPROVED

PLATE 1

PLOTTED BY

SSI - VICEROY - BREWERY CREEK OPS.

NOT MAPPED

WEST BIG ROCK

EAST BIG ROCK

Moosehead

NORTH SLOPE

Pacific

Blue

Fosters

Kokanee

Lucky

Canadian

Golden

BOHEMIAN

SCHOONER

CLASSIC

SLEEMANS

NOT MAPPED

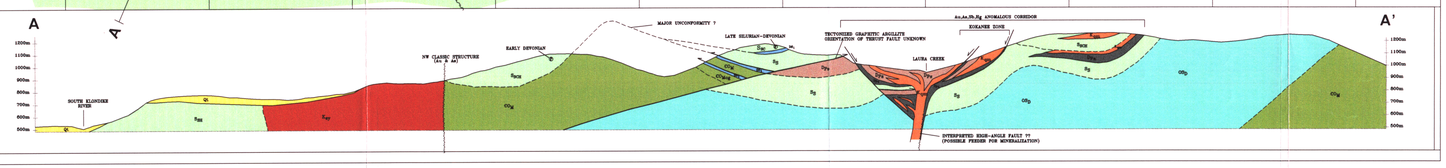
NOT MAPPED

A

A'

VERTICAL CROSS SECTION

NO VERTICAL EXAGGERATION



LEGEND

QUATERNARY

- Qt — UNCONSOLIDATED RIVER DEPOSITS (Gravel benches)

TOMBSTONE PLUTONIC SUITE (MID-CRETACEOUS)

- Kqm — QUARTZ MONZONITE (91.4 Ma) Contains quartz eyes, megacrystic K feldspars, hornblende + biotite.
- Kbm — BIOTITE MONZONITE Equigranular, contains about 30% biotite. Strongly foliated at base.
- Ksy — SYENITE Trachytoic texture due to strong alignment of feldspars. Coarse grained, contains hornblende + feldspar only.

EARN GROUP (DEVONIAN – MISSISSIPPIAN)

Siliciclastic Sedimentary Rocks

- DMtss — TUFFACEOUS SANDSTONE Fine grained laminated quartz sandstone with abundant tuffaceous material (sericitic).
- DMts — TUFFACEOUS SHALE Dark grey to black soft, tuffaceous shale. Small sharp crested asymmetric current ripples on bedding surfaces. Grades up-section into tuffaceous sandstone described above.

Siliciclastic Sedimentary Rocks

- DMdg — DEBRIS FLOW CONGLOMERATE Clast supported chert pebble conglomerate. Pebbles consist of very well-rounded to subangular, minor argillite, tuff and Hyland Group quartzite in a greywacke matrix.
- DMg — GREYWACKE Dark grey matrix supported greywacke. 1mm – 0.5cm sub-angular clasts of chert, shale and argillite within a poorly sorted siliceous matrix; grades locally into chert pebble conglomerate.
- DMss — SANDSTONE Dark grey massive well sorted siliceous sandstone, minor crude bedding surfaces.
- DMs — SHALE Fissile, dark grey fine grained shale, pin-striped and slightly burrowed silty shale, locally tuffaceous. Commonly interbedded with sandstone and greywacke described above.

- DMcb — BLACK GRAPHITIC ARGILLITE Black siliceous argillite, chert and graphitic shale. Characteristically fractured, brecciated and quartz veined in places. Locally baritic.
- DMby — BARITE Finely laminated light grey barite up to 15m in thickness. Interbedded with limestone and Steel Formation siltstone below.
- DMl — LIMESTONE Ranges from fossiliferous oolitic limestone breccia to fetid pelite limestone. Locally interbedded with laminated barite.

ROAD RIVER GROUP (ORDOVICIAN – SILURIAN)

STEEL FORMATION

- Sac — INTERBEDDED CALCAREOUS SILTSTONE AND CHERT Thinly interbedded sequence of tan weathering siltstone and dark grey chert and argillite. Minor limestone, bedded barite and chert breccia.
- Ss — CALCAREOUS SILTSTONE Tan weathering burrowed siltstone with wispy laminations, calcareous silty shale. Contains distinctive beds of massive tan weathering, hard blue-grey, siliceous dolomite.
- Sac Sas — ALTERED / HORNFELSED CALCAREOUS SILTSTONE The siltstone in both Ss and Sac members commonly exhibit a soft, clay rich, tuffaceous texture which may be the result of weak hornfelsing or decalcification. Forms white, fine grained siliceous hornfels around biotite monzonite intrusives.
- OSp — DUO LK FORMATION – CHERT Black chert and minor shale; chert is massive or thick bedded; unlike Steel Formation lacks limy or silty layers.

RABBITKETTLE FORMATION (CAMBRIAN & ORDOVICIAN)

- COMcg — CONGLOMERATE Consists of rounded cobbles and angular fragments of feldspar + augite porphyry & tuff, and amygdaloidal andesite in a tuffaceous or calcareous matrix. Appears to have formed at the post-Road River unconformity surface.
- COMp — MENZIE CREEK VOLCANICS – ANDESITE, AUGITE-FELDSPAR PORPHYRY, TUFF & VOLCANIC BRECCIA. Amygdaloidal andesite flows, calcareous greenish tuff and volcanic breccia, fresh augite-plagioclase porphyry.

- Trace of steep fault – normal or strike slip movement.
- Trace of Thrust fault – inferred from stratigraphy.
- Fold Axis: with direction of plunge
- Bedding – all bedding on property appears to be upright with strike and dip.
- Foliation in igneous rock
- Geological contact defined by outcrop, trenches or close-spaced drillholes
- Geological contact – inferred
- Fossiliferous limestone or chert
- Proposed Mine Pit

093601
1/4

VICEROY RESOURCE CORPORATION

PROPERTY GEOLOGY

0 250 500 750 1000 1250 m

SCALE: 1:15 000

DRAWN BY:	DWG SCALE: 1:15,000
DATA BY:	MAP INDEX NO. BC PropertyGeo
DATE: Feb. 1997	PLATE NO.: PLATE 2

DWG. LAST REVISED ON: G:\AADATA\ACAD13\BREW\GENGEO\BC PropertyGeo FEBRUARY 6 1997 3:05PM

19400N
19500N
19600N
19700N
19800N
19900N
20000N
20100N

900E1

800E1

700E1

600E1

500E1

Steel Formation

West Canadian Zone

Inferred Fault
may control intrusives and associated Mineralization at Depth

DD96-87

DD96-103

Hole Abandoned

N.S.R

Earn Group Graphitic Shale and LAQM Sills

Road River Group Steel Formation

Earn Group Graphitic Shale and LAQM Sills

Road River Group Steel Formation

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

CANADIAN ZONE
VERTICAL CROSS SECTION
19363 EAST

093601
1/4

SCALE	1: 1000		PLATE 3
0 10 20 30 40 50	DRAWN	R.D.	
	CHECKED		
DATE	12-Feb-97	APPROVED	

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SSI - VICEROY - BREWERY CREEK OPS.

N0

N001

N002

N003

800E1

700E1

600E1

Laura Creek

Canadian Zone Pit

Graphitic Shale

DD96-107

DD96-106

RC95-115

RC94-083

RC94-084

RC90-205

RC90-206

RC94-082

Intercalated AQM Sills and ARGG

Mineralized Sill

High Angle Feeder ?

093601

1/4

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

CANADIAN ZONE
OBLIQUE CROSS SECTION

SCALE	1: 500		PLATE 4
0 5 10 15 20 25	DRAWN	R.D.	
	CHECKED		
DATE	12-Feb-97	APPROVED	

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SSI - VICEROY - BREWERY CREEK OPS.

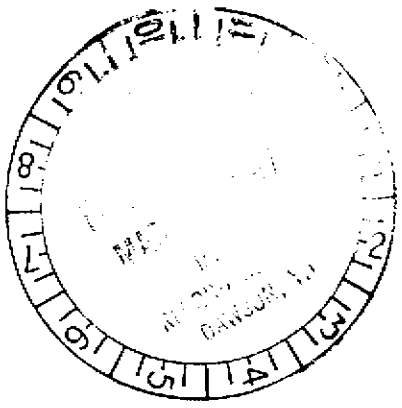
0936 vol pt 2 of 4

ASSESSMENT REPORT

on the

BDM, EEL, ELE, FLEE, LEE Claims

Dawson Mining District
N.T.S. 116 B/1
Latitude: 64°02'
Longitude: 138°15'



Owned by: VLB Resource Corporation
Bag 5040
Dawson City, Yukon Y0B 1G0
403-993-6057 (phone)
403-993-5606 (fax)

R. Diment
March 15, 1997

Volume II of II

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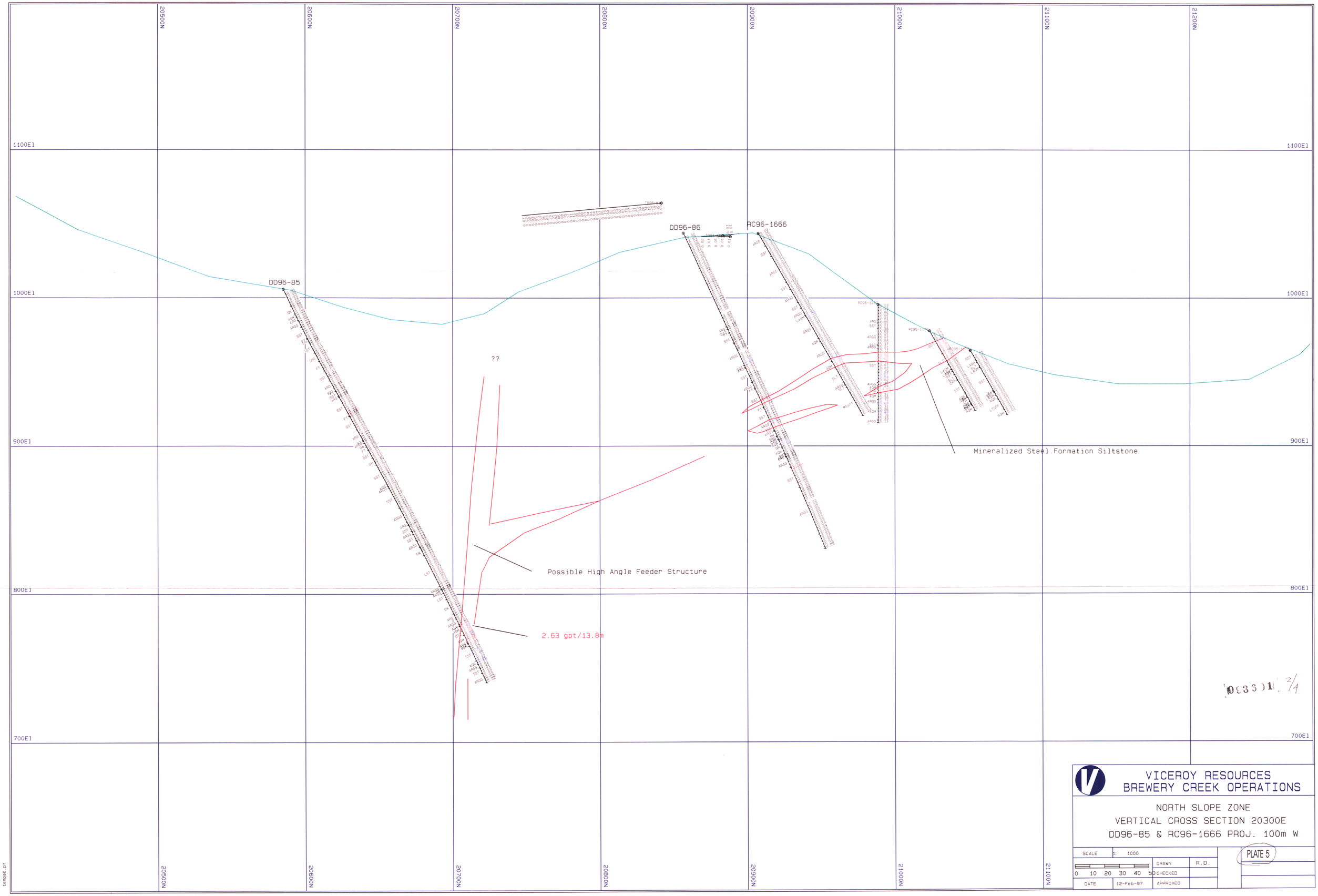

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

NORTH SLOPE ZONE
VERTICAL CROSS SECTION 20300E
DD96-85 & RC96-1666 PROJ. 100m W

SCALE	1: 1000		PLATE 5
0 10 20 30 40 50	DRAWN	R.D.	
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DATE	12-Feb-97	APPROVED	

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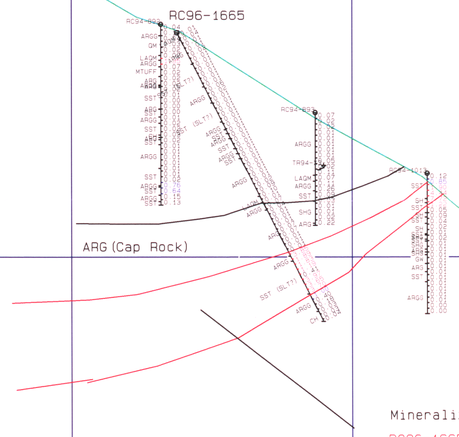
SSI - VICEROY - BREWERY CREEK OPS.

20500N
20600N
20700N
20800N
20900N
21000N
21100N
21200N

1100E1
1000E1
900E1
800E1
700E1



Mineralized Steel Formation Siltstone
RC96-1665: 2.56 gpt/16m
Open to the East

093601

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

NORTH SLOPE ZONE
VERTICAL CROSS SECTION
20590 EAST

SCALE	1: 1000		PLATE 6
0 10 20 30 40 50	DRAWN	R.D.	
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DATE	12-Feb-97	APPROVED	

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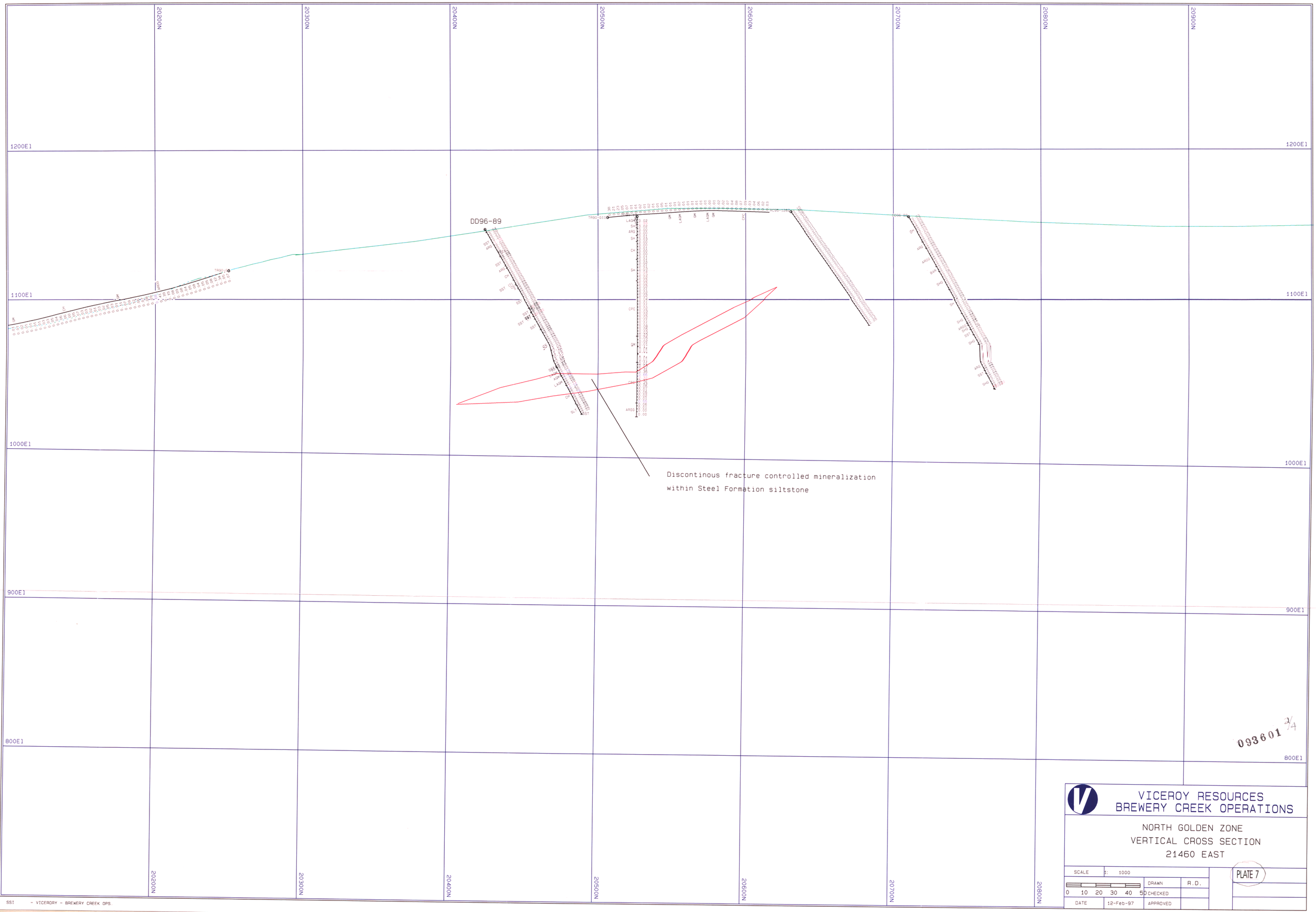
SSI - VICEROY - BREWERY CREEK OPS.



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VICEROY RESOURCES
BREWERY CREEK OPERATIONS

NORTH GOLDEN ZONE
VERTICAL CROSS SECTION
21460 EAST

PLATE 7

SCALE	1: 1000		
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DATE	12-Feb-97	APPROVED	

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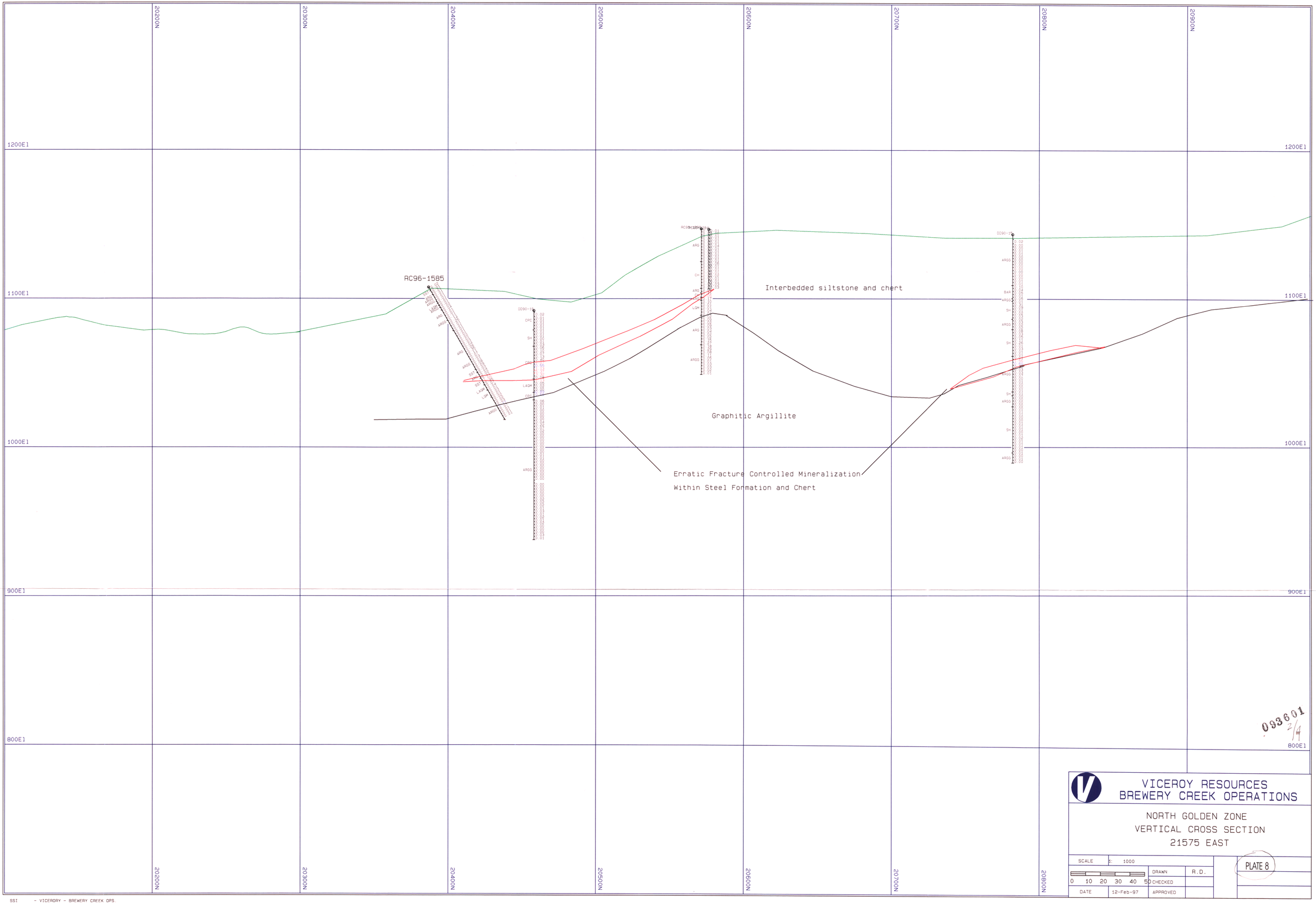
SSI - VICEROY - BREWERY CREEK OPS.



093601
2/4

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

NORTH GOLDEN ZONE
VERTICAL CROSS SECTION
21575 EAST

SCALE	1: 1000		PLATE 8
0 10 20 30 40 50		DRAWN	R.D.
		CHECKED	
DATE	12-Feb-97	APPROVED	

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SSI - VICEROY - BREWERY CREEK OPS.

1940ON
1950ON
1960ON
1970ON
1980ON
1990ON
2000ON
2010ON

1200E1

1100E1

1000E1

900E1

800E1

Steep North Dipping Fault Bounds
Mineralization Down Dip

DD96-90

DD96-91

DD96-92

High Angle Feeder ?

Intercalated Earn Group Sediments
and QM Sills

Road River Group Steel Formation

Broad Low Grade Mineralized Sill

Road River Group Steel Formation

093601

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

KOKANEE ZONE
VERTICAL CROSS SECTION
21225 EAST

SCALE	1: 1000		PLATE 9
0 10 20 30 40 50		DRAWN	R.D.
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DATE	12-Feb-97	APPROVED	

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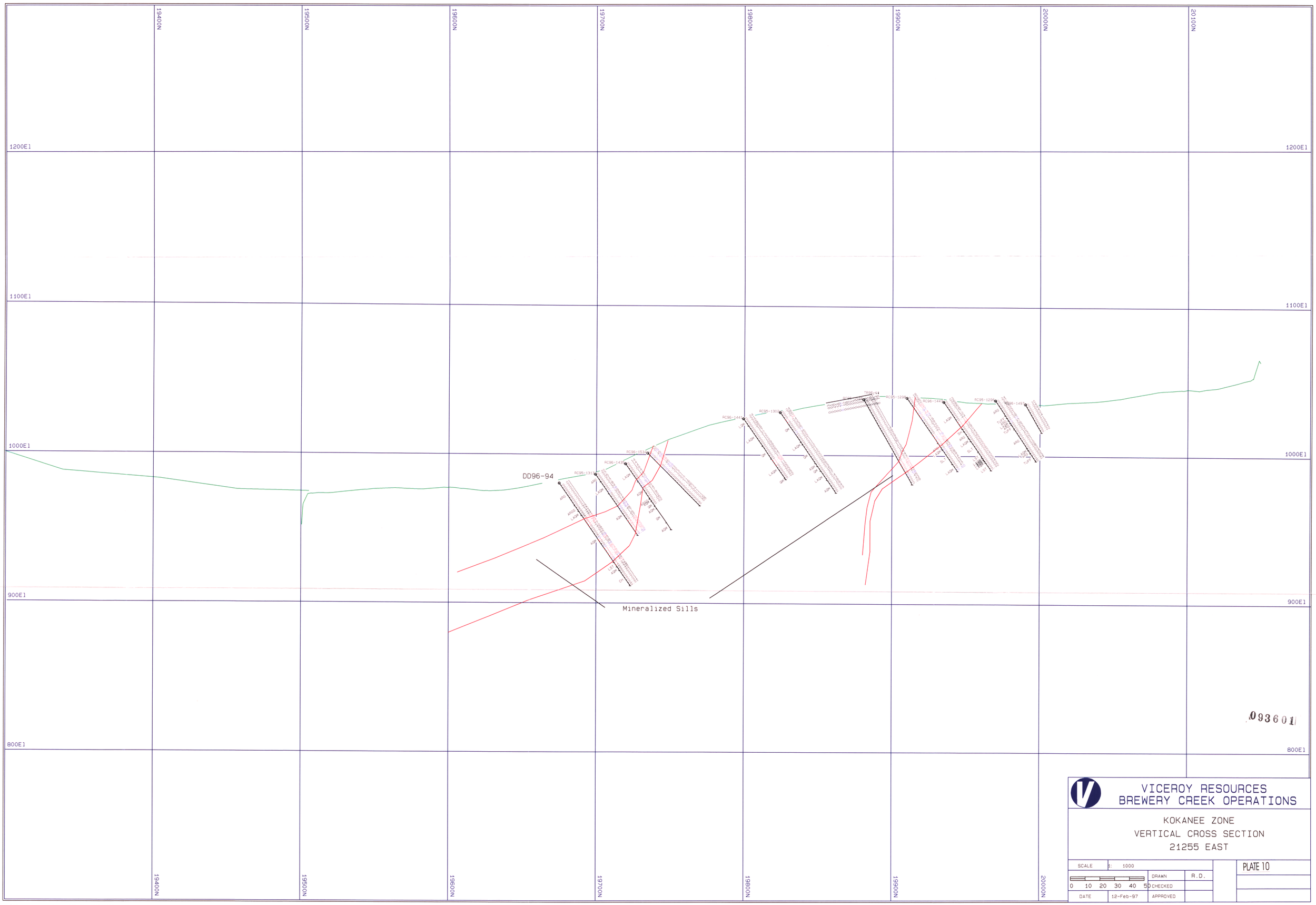
SSI - VICEROY - BREWERY CREEK OPS.



093601

	VICEROY RESOURCES BREWERY CREEK OPERATIONS
	KOKANEE ZONE VERTICAL CROSS SECTION 21255 EAST
SCALE	1: 1000
0 10 20 30 40 50	DRAWN R.D. CHECKED
DATE	12-Feb-97 APPROVED
	PLATE 10

tempaa.pf

SSI - VICEROY - BREWERY CREEK OPS.

1940N | 1950N | 1960N | 1970N | 1980N | 1990N | 2000N | 2010N

1200E1

1100E1

1000E1

900E1

800E1

DD96-93

Mineralized Sills

093601

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

KOKANEE ZONE
VERTICAL CROSS SECTION
21512 EAST

SCALE	1: 1000		PLATE 11
0 10 20 30 40 50	DRAWN	R.D.	
	CHECKED		
DATE	12-Feb-97	APPROVED	

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20200N

20300N

20400N

20500N

800E1

700E1

CPC

Inerbedded SH and SS

CPC Footwall

Well Developed Axial Planar Cleavage in Hinge

of South Vergent Fold May Localize Higher Grade Mineralization

093601 2/4

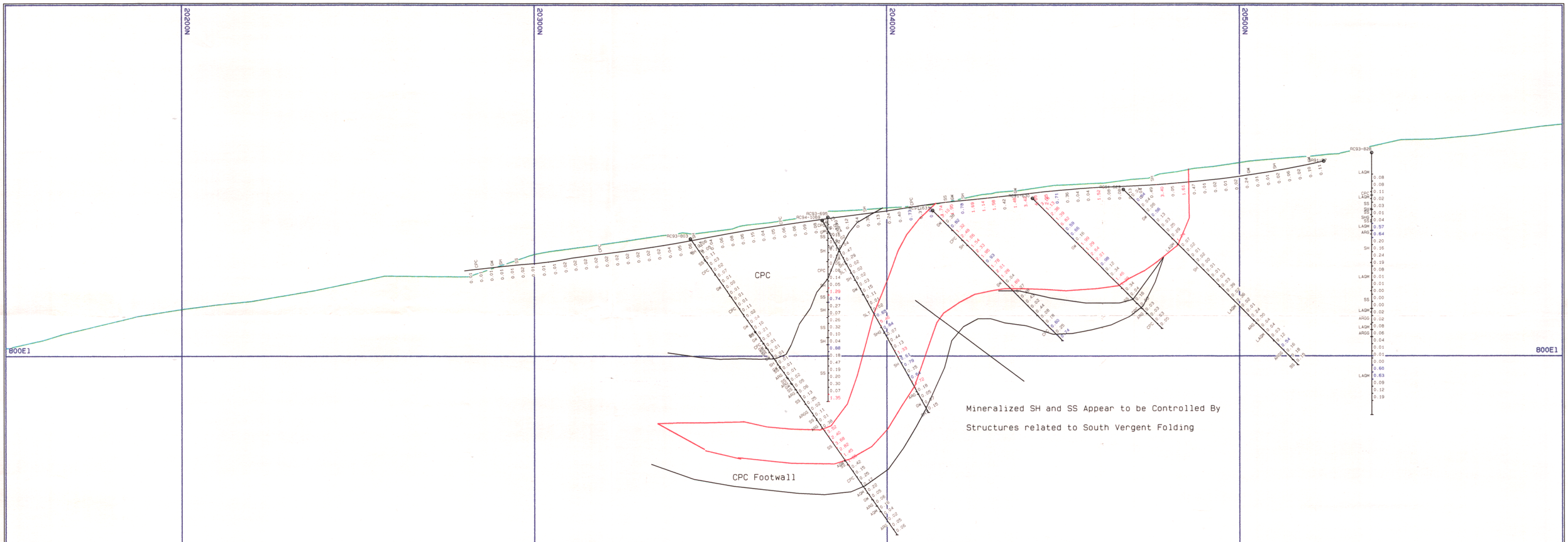
VICEROY RESOURCES
BREWERY CREEK OPERATIONS

PACIFIC ZONE
VERTICAL CROSS SECTION
17825 EAST

SCALE	1: 500		PLATE 12
0 5 10 15 20 25	DRAWN	R.D.	
	CHECKED		
DATE	12-Feb-97	APPROVED	

tempaa.pf

SSI ~ VICEROY ~ BREWERY CREEK OPS.



093601 3/4

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

PACIFIC ZONE
VERTICAL CROSS SECTION
17850 EAST

SCALE	1: 500		PLATE 13
0 5 10 15 20 25		DRAWN	R.D.
		CHECKED	
DATE	12-Feb-97	APPROVED	

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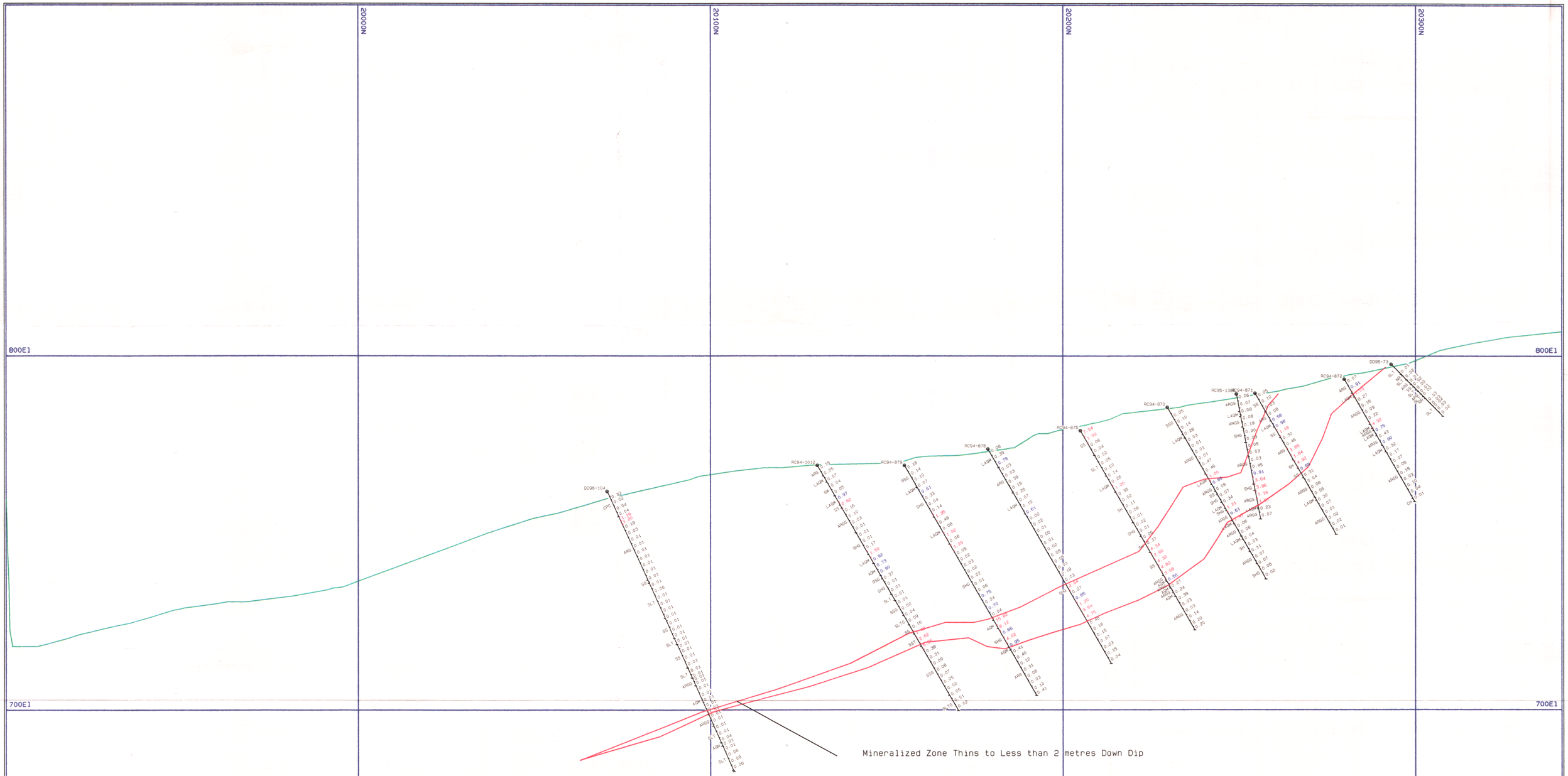
SSI - VICEROY - BREWERY CREEK OPS.



093601
3/4

VICEROY RESOURCES
BREWERY CREEK OPERATIONS

BLUE ZONE
VERTICAL CROSS SECTION
18549 EAST

SCALE 1: 500			PLATE 14
0 5 10 15 20 25	DRAWN	R.D.	
	CHECKED		
DATE 12-Feb-97	APPROVED		

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SSI - VICEROY - BREWERY CREEK OPS.

093601

12000E 14000E 16000E 18000E 20000E 22000E 24000E 26000E

24000N

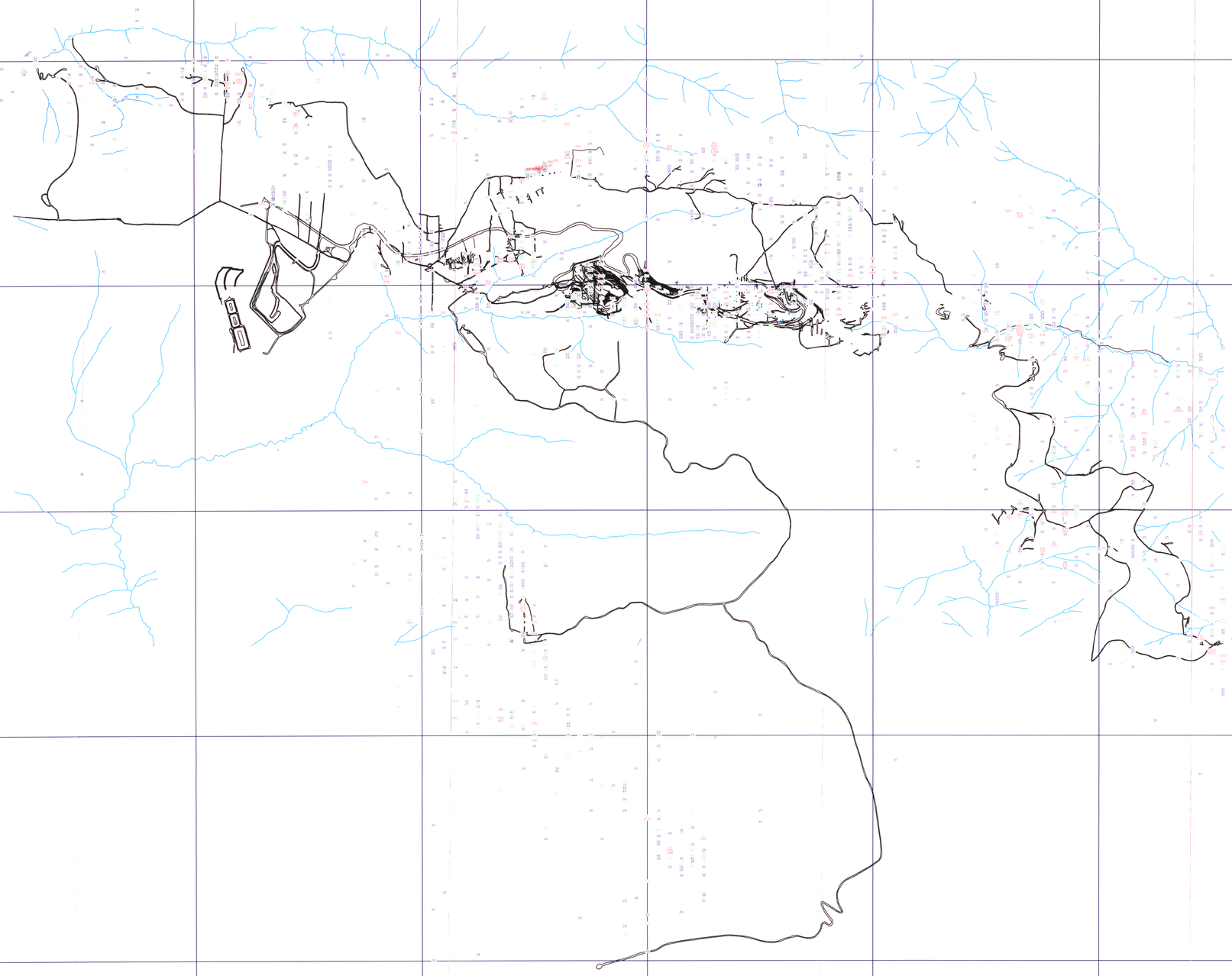
22000N

20000N

18000N

16000N

14000N



VICEROY RESOURCES
BREWERY CREEK OPERATIONS

BREWERY CREEK EXPLORATION
SOIL GEOCHEM ANOMALIES

093601 3/4

SCALE	1: 15000		PLATE 15
0 150 300 450 600 750	DRAWN	R.D.	
	CHECKED		
DATE	23-Jan-97	APPROVED	

geochem.plt

SSI - VICEROY + BREWERY CREEK OPS

Viceroy International Exploration, Inc.

Bag 5040
Dawson City, Yukon Y0B 1G0
Phone (403)993-6012 OR
(604)521-3706
Fax (604)522-5874
E-mail: vie@dawson.net

093601
pt 3 of 4

1997 Assay Certificates

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1565
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. :19628658
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628658

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	75
02-04	268 --	20
04-06	268 --	20
06-08	268 --	10
08-10	268 --	< 5
10-12	268 --	< 5
12-14	268 --	< 5
14-16	268 --	5
16-18	268 --	15
18-20	268 --	5
20-22	268 --	< 5
22-24	268 --	< 5
24-26	268 --	30
26-28	268 --	25
28-30	268 --	20
30-32	268 --	< 5
32-34	268 --	< 5
34-36	268 --	1190
36-38	268 --	885
38-40	268 --	845
40-42	268 --	915
42-44	268 --	685
44-46	268 --	360
46-48	268 --	50
48-50	268 --	125
50-52	268 --	260
52-54	268 --	545
54-56	268 --	315
56-58	268 --	950
58-60	268 --	455
60-62	268 --	15
62-64	268 --	20
64-66	268 --	10
66-68	268 --	< 5
68-70	268 --	15
70-72	268 --	40
72-74	268 --	65
74-76	268 --	45
76-78	268 --	35
78-80	268 --	30

CERTIFICATION:

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1566
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. :19628660
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628660

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	730
02-04	268 --	930
04-06	268 --	635
06-08	268 --	580
08-10	268 --	1910
10-12	268 --	455
12-14	268 --	130
14-16	268 --	55
16-18	268 --	70
18-20	268 --	40
20-22	268 --	60
22-24	268 --	15
24-26	268 --	15
26-28	268 --	70
28-30	268 --	25
30-32	268 --	10
32-34	268 --	25
34-36	268 --	30
36-38	268 --	20
38-40	268 --	1610
40-42	268 --	425
42-44	268 --	400
44-46	268 --	55
46-48	268 --	1510
48-50	268 --	3200
50-52	268 --	2580
52-54	268 --	1980
54-56	268 --	375
56-58	268 --	385
58-60	268 --	20
60-62	268 --	10
62-64	268 --	35
64-66	268 --	15
66-68	268 --	10
68-70	268 --	10
70-72	268 --	< 5
1566A	268 --	40
1566B	268 --	65

CERTIFICATION: Mark Vonk

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1567
Comments: ATTN: RICK DIMENT CC: JOHN ZBETNIOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. : I9628661
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628661

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	75
02-04	268 --	45
04-06	268 --	15
06-08	268 --	< 5
08-10	268 --	< 5
10-12	268 --	< 5
12-14	268 --	10
14-16	268 --	< 5
16-18	268 --	< 5
18-20	268 --	55
20-22	268 --	20
22-24	268 --	< 5
24-26	268 --	270
26-28	268 --	1340
28-30	268 --	225
30-32	268 --	400
32-34	268 --	20
34-36	268 --	90
36-38	268 --	825
38-40	268 --	230
40-42	268 --	140
42-44	268 --	2280
44-46	268 --	505
46-48	268 --	25
48-50	268 --	10
50-52	268 --	10

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To: LOKI GOLD CORPORATION
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DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1568
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :2
Certificate Date: 25-AUG-96
Invoice No. :19628662
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628662

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	45
02-04	268 --	10
04-06	268 --	< 5
06-08	268 --	< 5
08-10	268 --	< 5
10-12	268 --	< 5
12-14	268 --	< 5
14-16	268 --	< 5
16-18	268 --	20
18-20	268 --	< 5
20-22	268 --	< 5
22-24	268 --	280
24-26	268 --	< 5
26-28	268 --	275
28-30	268 --	50
30-32	268 --	10
32-34	268 --	< 5
34-36	268 --	235
36-38	268 --	1560
38-40	268 --	275
40-42	268 --	270
42-44	268 --	1380
44-46	268 --	330
46-48	268 --	15
48-50	268 --	5
50-52	268 --	10
52-54	268 --	< 5
54-56	268 --	< 5
56-58	268 --	< 5
58-60	268 --	< 5
60-62	268 --	< 5
62-64	268 --	10
64-66	268 --	< 5
66-68	268 --	< 5
68-70	268 --	20
70-72	268 --	10
72-74	268 --	< 5
74-76	268 --	15
76-78	268 --	10
78-80	268 --	30

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1568
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :2
Total Pages :2
Certificate Date: 25-AUG-96
Invoice No. :I9628662
P.O. Number :10573
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CERTIFICATE OF ANALYSIS A9628662

SAMPLE	PREP CODE	Au ppb FA+AA
1568A	268 --	< 5
1568B	268 --	< 5

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To: LOKI GOLD CORPORATION
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Project : BREWERY CR. RC-1569
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. : I9628664
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628664

SAMPLE	PREP CODE		Au ppb FA+AA
00-02	268	--	55
02-04	268	--	30
04-06	268	--	695
06-08	268	--	410
08-10	268	--	45
10-12	268	--	60
12-14	268	--	350
14-16	268	--	100
16-18	268	--	275
18-20	268	--	30
20-22	268	--	5
22-24	268	--	25
24-26	268	--	875
26-28	268	--	1890
28-30	268	--	2060
30-32	268	--	690
32-34	268	--	1130
34-36	268	--	540
36-38	268	--	25
38-40	268	--	15
40-42	268	--	15
42-44	268	--	< 5
44-46	--	--	NotRcd
46-48	268	--	< 5
48-50	268	--	< 5

CERTIFICATION:

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To: LOKI GOLD CORPORATION
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DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1570
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. :19628665
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628665

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	35
02-04	268 --	45
04-06	268 --	40
06-08	268 --	45
08-10	268 --	25
10-12	268 --	15
12-14	268 --	60
14-16	268 --	45
16-18	268 --	130
18-20	268 --	65
20-22	268 --	30
22-24	268 --	5
24-26	268 --	< 5
26-28	268 --	< 5
28-30	268 --	35
30-32	268 --	10
32-34	268 --	985
34-36	268 --	615
36-38	268 --	400
38-40	268 --	610
40-42	268 --	280
42-44	268 --	375
44-46	268 --	55
46-48	268 --	10
48-50	268 --	15
50-52	268 --	< 5
52-54	268 --	< 5
1570A	268 --	30
1570B	268 --	20

CERTIFICATION: Derek Vonk

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To: LOKI GOLD CORPORATION
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Y0B 1G0

Project : BREWERY CR. RC-1571
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. :19628667
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628667

SAMPLE	PREP CODE		Au ppb FA+AA
00-02	268	--	1890
02-04	268	--	580
04-06	268	--	695
06-08	268	--	2390
08-10	268	--	4430
10-12	268	--	110
12-14	268	--	25
14-16	268	--	15
16-18	268	--	25
18-20	268	--	105
20-22	268	--	10
22-24	268	--	10
24-26	268	--	265
26-28	268	--	220
28-30	268	--	900
30-32	268	--	160
32-34	268	--	885
34-36	268	--	25
36-38	268	--	10
38-40	268	--	5
40-42	268	--	< 5
42-44	268	--	< 5
44-46	268	--	40
46-48	268	--	< 5
48-50	268	--	< 5
50-52	268	--	< 5
52-54	268	--	65
54-56	268	--	25
56-58	268	--	185
58-60	268	--	5980
60-62	268	--	590
62-64	268	--	1040
64-66	268	--	65
66-68	268	--	15
68-70	268	--	15
70-72	268	--	5
72-74	268	--	< 5

CERTIFICATION:

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1572
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. : I9628668
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628668

SAMPLE	PREP CODE	Au ppb FA+AA
02-04	268 --	10
04-06	268 --	1130
06-08	268 --	2550
08-10	268 --	900
10-12	268 --	50
12-14	268 --	380
14-16	268 --	20
16-18	268 --	10
18-20	268 --	< 5
20-22	268 --	< 5
22-24	268 --	< 5
24-26	268 --	< 5
26-28	268 --	< 5
28-30	268 --	< 5
30-32	268 --	25
32-34	268 --	10
34-36	268 --	< 5
36-38	268 --	< 5
38-40	268 --	< 5
40-42	268 --	< 5
42-44	268 --	515
44-46	268 --	525
46-48	268 --	2170
48-50	268 --	25
50-52	268 --	35
52-54	268 --	220
54-56	268 --	600
56-58	268 --	155
58-60	268 --	35
60-62	268 --	30
62-64	268 --	15
64-66	268 --	15
66-68	268 --	15
68-70	268 --	50
70-72	268 --	10
72-74	268 --	< 5
74-76	268 --	5
1572A	268 --	30
1572B	268 --	345

CERTIFICATION: Mark Vinh

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1573
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 25-AUG-96
Invoice No. : 19628670
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628670

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	90
02-04	268 --	245
04-06	268 --	80
06-08	268 --	1230
08-10	268 --	875
10-12	268 --	55
12-14	268 --	25
14-16	268 --	1600
16-18	268 --	1970
18-20	268 --	30
20-22	268 --	275
22-24	268 --	660
24-26	268 --	190
26-28	268 --	15
28-30	268 --	< 5
30-32	268 --	< 5
32-34	268 --	15
34-36	268 --	< 5
36-38	268 --	< 5
38-40	268 --	< 5
40-42	268 --	< 5
42-44	268 --	< 5
44-46	268 --	< 5
46-48	268 --	< 5
48-50	268 --	< 5
50-52	268 --	< 5
52-54	268 --	< 5
54-56	268 --	< 5
56-58	268 --	< 5
58-60	268 --	< 5
60-62	268 --	< 5

CERTIFICATION: Mark Vonk

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1574
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 25-AUG-96
Invoice No. :19628672
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9628672

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	1490
02-04	268 --	495
04-06	268 --	300
06-08	268 --	1600
08-10	268 --	35
10-12	268 --	975
12-14	268 --	265
14-16	268 --	100
16-18	268 --	90
18-20	268 --	245
20-22	268 --	230
22-24	268 --	255
24-26	268 --	610
26-28	268 --	420
28-30	268 --	705
30-32	268 --	530
32-34	268 --	110
34-36	268 --	240
36-38	268 --	105
38-40	268 --	10
40-42	268 --	< 5
42-44	268 --	< 5
44-46	268 --	< 5
46-48	268 --	< 5
48-50	268 --	< 5
50-52	268 --	< 5
52-54	268 --	< 5
54-56	268 --	< 5
56-58	268 --	< 5
58-60	268 --	< 5
1574A	268 --	240
1574B	268 --	100

CERTIFICATION:

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1575
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 22-AUG-96
Invoice No. : I9628674
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628674

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	10
02-04	268 --	10
04-06	268 --	75
06-08	268 --	40
08-10	268 --	< 5
10-12	268 --	< 5
12-14	268 --	< 5
14-16	268 --	< 5
16-18	268 --	160
18-20	268 --	< 5
20-22	268 --	< 5
22-24	268 --	35
24-26	268 --	500
26-28	268 --	170
28-30	268 --	490
30-32	268 --	500
32-34	268 --	390
34-36	268 --	800
36-38	268 --	75
38-40	268 --	220
40-42	268 --	660
42-44	268 --	490
44-46	268 --	390
46-48	268 --	810
48-50	268 --	455
50-52	268 --	110
52-54	268 --	60
54-56	268 --	10
56-58	268 --	< 5
58-60	268 --	< 5
60-62	268 --	< 5
62-64	268 --	< 5

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CK RC-1576
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 28-AUG-96
Invoice No. :19629618
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9629618

SAMPLE	PREP CODE	Au ppb FA+AA
RC-1576 0-2	217 --	20
RC-1576 2-4	217 --	10
RC-1576 4-6	217 --	< 5
RC-1576 6-8	217 --	< 5
RC-1576 8-10	217 --	< 5
RC-1576 10-12	217 --	< 5
RC-1576 12-14	217 --	< 5
RC-1576 14-16	217 --	< 5
RC-1576 16-18	217 --	< 5
RC-1576 18-20	217 --	< 5
RC-1576 20-22	217 --	45
RC-1576 22-24	217 --	15
RC-1576 24-26	217 --	< 5
RC-1576 26-28	217 --	< 5
RC-1576 28-30	217 --	< 5
RC-1576 30-32	217 --	85
RC-1576 32-34	217 --	< 5
RC-1576 34-36	217 --	< 5
RC-1576 36-38	217 --	< 5
RC-1576 38-40	217 --	35
RC-1576 40-42	217 --	45
RC-1576 42-44	217 --	50
RC-1576 44-46	217 --	10
RC-1576 46-48	217 --	235
RC-1576 48-50	217 --	215
RC-1576 50-52	217 --	1930
RC-1576 52-54	217 --	4800
RC-1576 54-56	217 --	280
RC-1576 56-58	217 --	180
RC-1576 58-60	217 --	25
RC-1576 60-62	217 --	35
RC-1576 62-64	217 --	5
RC-1576 64-66	217 --	40
RC-1576 66-68	217 --	715
RC-1576 68-70	217 --	1070
RC-1576 70-72	217 --	70
RC-1576 72-74	217 --	70
RC-1576 74-76	217 --	65
RC-1576 A	217 --	< 5
RC-1576 B	217 --	< 5

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To: LOKI GOLD CORPORATION
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BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1577
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 25-AUG-96
Invoice No. : I9628675
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628675

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	40
02-04	268 --	10
04-06	268 --	5
06-08	268 --	< 5
08-10	268 --	5
10-12	268 --	< 5
12-14	268 --	< 5
14-16	268 --	< 5
16-18	268 --	< 5
18-20	268 --	10
20-22	268 --	20
22-24	268 --	285
24-26	268 --	10
26-28	268 --	< 5
28-30	268 --	75
30-32	268 --	25
32-34	268 --	80
34-36	268 --	220
36-38	268 --	330
38-40	268 --	510
40-42	268 --	15
42-44	268 --	< 5
44-46	268 --	< 5
46-48	268 --	< 5
48-50	268 --	65
50-52	268 --	< 5
52-54	268 --	< 5
54-56	268 --	< 5
56-58	268 --	< 5
58-60	268 --	< 5

CERTIFICATION: Mark Vonk

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PHONE: 604-984-0221 FAX: 604-984-0218

To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CR. RC-1578
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 25-AUG-96
Invoice No. : I9628810
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9628810

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	268 --	< 5
02-04	268 --	< 5
04-06	268 --	< 5
06-08	268 --	< 5
08-10	268 --	< 5
10-12	268 --	< 5
12-14	268 --	< 5
14-16	268 --	< 5
16-18	268 --	< 5
18-20	268 --	< 5
20-22	268 --	< 5
22-24	268 --	< 5
24-26	268 --	< 5
26-28	268 --	< 5
28-30	268 --	< 5
30-32	268 --	< 5
32-34	268 --	< 5
34-36	268 --	< 5
36-38	268 --	< 5
38-40	268 --	< 5
40-42	268 --	< 5
42-44	268 --	125
44-46	268 --	1210
46-48	268 --	470
48-50	268 --	60
50-52	268 --	55
52-54	268 --	350
54-56	268 --	275
56-58	268 --	80
58-60	268 --	65
60-62	268 --	90
62-64	268 --	25
64-66	268 --	20
1578A	268 --	< 5
1578B	268 --	< 5

CERTIFICATION: Thanh Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CK RC1579/81
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 28-AUG-96
Invoice No. : I9629619
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9629619

SAMPLE	PREP CODE	Au ppb FA+AA
RC-1579 0-2	217 --	10
RC-1579 2-4	217 --	< 5
RC-1579 4-6	217 --	< 5
RC-1579 6-8	217 --	< 5
RC-1579 8-10	217 --	< 5
RC-1579 10-12	217 --	< 5
RC-1579 12-14	217 --	250
RC-1579 14-16	217 --	85
RC-1579 16-18	217 --	30
RC-1579 18-20	217 --	20
RC-1579 20-22	217 --	15
RC-1579 22-24	217 --	15
RC-1579 24-26	217 --	25
RC-1579 26-28	217 --	35
RC-1579 28-30	217 --	10
RC-1579 30-32	217 --	< 5
RC-1579 32-34	217 --	< 5
RC-1579 34-36	217 --	< 5
RC-1579 36-38	217 --	< 5
RC-1579 38-40	217 --	5
RC-1579 40-42	217 --	50
RC-1580 (2-4)	217 --	10
RC-1581 14-16	217 --	25
RC-1581 16-18	217 --	5
RC-1581 18-20	217 --	10
RC-1581 20-22	217 --	5
RC-1581 22-24	217 --	5
RC-1581 24-26	217 --	5
RC-1581 26-28	217 --	< 5
RC-1581 28-30	217 --	< 5
RC-1581 30-32	217 --	< 5
RC-1581 32-34	217 --	< 5
RC-1581 34-36	217 --	< 5
RC-1581 36-38	217 --	5
RC-1581 38-40	217 --	< 5
RC-1581 40-42	217 --	< 5
RC-1581 42-44	217 --	< 5
RC-1581 44-46	217 --	< 5
RC-1581 46-48	217 --	< 5
RC-1581 48-50	217 --	5

CERTIFICATION: Mark Vonk

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 30/96

SAMPLE SERIES RC - 96

SAMPLE SERIES _____

	SAMPLE	Au/t
1	1580 0-2	NO RECOVERY
2	2-4	TO FOLLOW
3	4-6	0.02
4	6-8	0.02
5	8-10	0.02
6		
7		
8		
9		
10		
11		
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	SAMPLE	Au/t
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36		
37		
38		
39		
40		
41		
42		
43		
44		

SUPERVISOR _____

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PHONE: 604-984-0221 FAX: 604-984-0218

To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CK RC-1582
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 28-AUG-96
Invoice No. : I9629620
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9629620

SAMPLE	PREP CODE	Au ppb FA+AA
RC-1582 0-2	217 --	< 5
RC-1582 8-10	217 --	< 5
RC-1582 10-12	217 --	< 5
RC-1582 12-14	217 --	< 5
RC-1582 14-16	217 --	< 5
RC-1582 16-18	217 --	< 5
RC-1582 18-20	217 --	< 5
RC-1582 20-22	217 --	< 5
RC-1582 22-24	217 --	< 5
RC-1582 24-26	217 --	< 5
RC-1582 26-28	217 --	< 5
RC-1582 28-30	217 --	< 5
RC-1582 30-32	217 --	< 5
RC-1582 32-34	217 --	10
RC-1582 34-36	217 --	< 5
RC-1582 36-38	217 --	10
RC-1582 38-40	217 --	< 5
RC-1582 40-42	217 --	< 5
RC-1582 42-44	217 --	< 5
RC-1582 44-46	217 --	< 5
RC-1582 46-48	217 --	< 5
RC-1582 48-50	217 --	< 5
RC-1582 A	217 --	< 5
RC-1582 B	217 --	< 5

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To: LOKI GOLD CORPORATION
BREWERY CREEK MINE
BAG 5040
DAWSON CITY, Y.T.
Y0B 1G0

Project : BREWERY CK RC-1583
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 29-AUG-96
Invoice No. : I9629621
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9629621

SAMPLE	PREP CODE	Au ppb FA+AA
RC-1583 0-2	217 --	< 5
RC-1583 2-4	217 --	30
RC-1583 4-6	217 --	5
RC-1583 6-8	217 --	15
RC-1583 8-10	217 --	30
RC-1583 10-12	217 --	85
RC-1583 12-14	217 --	20
RC-1583 14-16	217 --	10
RC-1583 16-18	217 --	< 5
RC-1583 18-20	217 --	< 5
RC-1583 20-22	217 --	10
RC-1583 22-24	217 --	10
RC-1583 24-26	217 --	10
RC-1583 26-28	217 --	10
RC-1583 28-30	217 --	5
RC-1583 30-32	217 --	5
RC-1583 32-34	217 --	5
RC-1583 34-36	217 --	5
RC-1583 36-38	217 --	5
RC-1583 38-40	217 --	10
RC-1583 40-42	217 --	5
RC-1583 42-44	217 --	< 5
RC-1583 44-46	217 --	< 5
RC-1583 46-48	217 --	< 5
RC-1583 48-50	217 --	< 5
RC-1583 50-52	217 --	< 5
RC-1583 52-54	217 --	< 5
RC-1583 54-56	217 --	< 5
RC-1583 56-58	217 --	5
RC-1583 58-60	217 --	< 5
RC-1583 60-62	217 --	< 5
RC-1583 62-64	217 --	< 5
RC-1583 64-66	217 --	< 5

CERTIFICATION: Mark Vonk

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERYCRK RC96 1585
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 2
Certificate Date: 04-SEP-96
Invoice No. : I9630300
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630300

SAMPLE	PREP CODE	Au ppb FA+AA
1585 0-2	217 --	20
1585 2-4	217 --	15
1585 4-6	217 --	10
1585 6-8	217 --	10
1585 8-10	217 --	< 5
1585 10-12	217 --	< 5
1585 12-14	217 --	< 5
1585 14-16	217 --	< 5
1585 16-18	217 --	20
1585 18-20	217 --	35
1585 20-22	217 --	10
1585 22-24	217 --	5
1585 24-26	217 --	105
1585 26-28	217 --	140
1585 28-30	217 --	245
1585 30-32	217 --	15
1585 32-34	217 --	10
1585 34-36	217 --	5
1585 36-38	217 --	< 5
1585 38-40	217 --	10
1585 40-42	217 --	20
1585 42-44	217 --	15
1585 44-46	217 --	30
1585 46-48	217 --	40
1585 48-50	217 --	55
1585 50-52	217 --	355
1585 52-54	217 --	105
1585 54-56	217 --	65
1585 56-58	217 --	25
1585 58-60	217 --	15
1585 60-62	217 --	80
1585 62-64	217 --	90
1585 64-66	217 --	25
1585 66-68	217 --	35
1585 68-70	217 --	20
1585 70-72	217 --	15
1585 72-74	217 --	1660
1585 74-76	217 --	350
1585 76-78	217 --	75
1585 78-80	217 --	35

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERYCRK RC96 1585
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page number : 2
Total Pages : 2
Certificate Date: 04-SEP-96
Invoice No. : I9630300
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630300

SAMPLE	PREP CODE	Au ppb FA+AA
1585 80-82	217 --	15
1585 82-84	217 --	30
1585 84-86	217 --	15
1585 86-88	217 --	20
1585 88-90	217 --	20
1585 90-92	217 --	25
1585 92-94	217 --	765
1585 94-96	217 --	65
1585 96-98	217 --	15
1585 98-100	217 --	10
1585 100-102	217 --	10
1585 102-104	217 --	5

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CREEK RC1600
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 1
Certificate Date: 13-SEP-96
Invoice No. : I9630976
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630976

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1600 00-02	217 --	160
RC 1600 02-04	217 --	45
RC 1600 04-06	217 --	25
RC 1600 06-08	217 --	10
RC 1600 08-10	217 --	10
RC 1600 10-12	217 --	5
RC 1600 12-14	217 --	95
RC 1600 14-16	217 --	20
RC 1600 16-18	217 --	20
RC 1600 18-20	217 --	50
RC 1600 20-22	217 --	585
RC 1600 22-24	217 --	345
RC 1600 24-26	217 --	220
RC 1600 26-28	217 --	115
RC 1600 28-30	217 --	240
RC 1600 30-32	217 --	1870
RC 1600 32-34	217 --	2450
RC 1600 34-36	217 --	220
RC 1600 36-38	217 --	220
RC 1600 38-40	217 --	25
RC 1600 40-42	217 --	20
RC 1600 42-44	217 --	10
RC 1600 44-46	217 --	15
RC 1600 46-48	217 --	15
RC 1600 48-50	217 --	20
RC 1600 50-52	217 --	15
RC 1600 52-54	217 --	15
RC 1600 54-56	217 --	5
RC 1600 56-58	217 --	< 5
RC 1600 A	217 --	< 5
RC 1600 B	217 --	< 5

18m of ____ includes 4m of ____

CERTIFICATION: Mark Vnuk

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CREEK RC1601
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page Number : 1
Total Pages : 2
Certificate Date: 12-SEP-96
Invoice No. : 19630977
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630977

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1601 00-02	217 --	20
RC 1601 02-04	217 --	120
RC 1601 04-06	217 --	90
RC 1601 06-08	217 --	475
RC 1601 08-10	217 --	310
RC 1601 10-12	217 --	1200
RC 1601 12-14	217 --	2360
RC 1601 14-16	217 --	75
RC 1601 16-18	217 --	105
RC 1601 18-20	217 --	40
RC 1601 20-22	217 --	25
RC 1601 22-24	217 --	15
RC 1601 24-26	217 --	10
RC 1601 26-28	217 --	10
RC 1601 28-30	217 --	20
RC 1601 30-32	217 --	10
RC 1601 32-34	217 --	10
RC 1601 34-36	217 --	15
RC 1601 36-38	217 --	< 5
RC 1601 38-40	217 --	< 5
RC 1601 40-42	217 --	35
RC 1601 42-44	217 --	30
RC 1601 44-46	217 --	155
RC 1601 46-48	217 --	20
RC 1601 48-50	217 --	40
RC 1601 50-52	217 --	275
RC 1601 52-54	217 --	2080
RC 1601 54-56	217 --	3020
RC 1601 56-58	217 --	3390
RC 1601 58-60	217 --	2370
RC 1601 60-62	217 --	735
RC 1601 62-64	217 --	25
RC 1601 64-66	217 --	35
RC 1601 66-68	217 --	60
RC 1601 68-70	217 --	20
RC 1601 70-72	217 --	10
RC 1601 72-74	217 --	< 5
RC 1601 74-76	217 --	10
RC 1601 76-78	217 --	15
RC 1601 78-80	217 --	10

CERTIFICATION: Mark Vonk

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CREEK RC1601
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page Number :2
Total Pages :2
Certificate Date: 12-SEP-96
Invoice No. : I9630977
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630977

SAMPLE	PREP CODE		Au ppb FA+AA									
RC 1601 80-82	217	--	15									

CERTIFICATION: Mark Vinh

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CREEK RC1602
Comments: ATTN:RICK DIMENT FAX:JOHN ZBEETNOFF

Page ber : 1
Total Pages : 1
Certificate Date: 12-SEP-96
Invoice No. : I9630978
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9630978

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1602 00-02	217 --	35
RC 1602 02-04	217 --	30
RC 1602 04-06	217 --	150
RC 1602 06-08	217 --	85
RC 1602 08-10	217 --	40
RC 1602 10-12	217 --	40
RC 1602 12-14	217 --	20
RC 1602 14-16	217 --	185
RC 1602 16-18	217 --	645
RC 1602 18-20	217 --	185
RC 1602 20-22	217 --	175
RC 1602 22-24	217 --	110
RC 1602 24-26	217 --	85
RC 1602 26-28	217 --	2050
RC 1602 28-30	217 --	545
RC 1602 30-32	217 --	30
RC 1602 32-34	217 --	190
RC 1602 34-36	217 --	470
RC 1602 36-38	217 --	55
RC 1602 38-40	217 --	5
RC 1602 40-42	217 --	5
RC 1602 42-44	217 --	10
RC 1602 44-46	217 --	10
RC 1602 46-48	217 --	5
RC 1602 48-50	217 --	15
RC 1602 50-52	217 --	565
RC 1602 52-54	217 --	235
RC 1602 54-56	217 --	20
RC 1602 56-58	217 --	< 5
RC 1602 58-60	217 --	< 5
RC 1602 A	217 --	40
RC 1602 B	217 --	20

CERTIFICATION:

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK
Comments: ATTN: JOHN ZBEETNOFF FAAX: RICK DIMENT

Page Number :1
Total Pages :5
Certificate Date: 02-OCT-96
Invoice No. :I9633672
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9633672

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1603 00-02	217 --	25
RC 1603 02-04	217 --	10
RC 1603 04-06	217 --	35
RC 1603 06-08	217 --	170
RC 1603 08-10	217 --	< 5
RC 1603 10-12	217 --	55
RC 1603 12-14	217 --	360
RC 1603 14-16	217 --	60
RC 1603 16-18	217 --	10
RC 1603 18-20	217 --	15
RC 1603 20-22	217 --	55
RC 1603 22-24	217 --	65
RC 1603 24-26	217 --	100
RC 1603 26-28	217 --	175
RC 1603 28-30	217 --	60
RC 1603 30-32	217 --	205
RC 1603 32-34	217 --	240
RC 1603 34-36	217 --	230
RC 1603 36-38	217 --	10
RC 1603 38-40	217 --	< 5
RC 1603 40-42	217 --	< 5
RC 1603 42-44	217 --	< 5
RC 1603 44-46	217 --	< 5
RC 1603 46-48	217 --	< 5
RC 1603 48-50	217 --	< 5
RC 1603 50-52	217 --	< 5
RC 1603 52-54	217 --	< 5
RC 1603 54-56	217 --	< 5
RC 1603 56-58	217 --	< 5
RC 1604 00-02	217 --	295
RC 1604 02-04	217 --	170
RC 1604 04-06	217 --	520
RC 1604 06-08	217 --	295
RC 1604 08-10	217 --	1060
RC 1604 10-12	217 --	110
RC 1604 12-14	217 --	175
RC 1604 14-16	217 --	25
RC 1604 16-18	217 --	5
RC 1604 18-20	217 --	< 5
RC 1604 20-22	217 --	< 5

CERTIFICATION: Mark Vahl

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK
Comments: ATTN: JOHN ZBEETNOFF FAAX: RICK DIMENT

Page Number : 2
Total Pages : 5
Certificate Date: 02-OCT-96
Invoice No. : I9633672
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9633672

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1604 22-24	217 --	50
RC 1604 24-26	217 --	< 5
RC 1604 26-28	217 --	< 5
RC 1604 28-30	217 --	< 5
RC 1604 30-32	217 --	40
RC 1604 32-34	217 --	15
RC 1604 34-36	217 --	5
RC 1604 36-38	217 --	20
RC 1604 38-40	217 --	15
RC 1604 40-42	217 --	5
RC 1604 42-44	217 --	< 5
RC 1604 44-46	217 --	< 5
RC 1604 46-48	217 --	75
RC 1604 48-50	217 --	310
RC 1604 50-52	217 --	415
RC 1604 52-54	217 --	205
RC 1604 54-56	217 --	3510
RC 1604 56-58	217 --	3740
RC 1604 58-60	217 --	35
RC 1604 60-62	217 --	20
RC 1604 62-64	217 --	10
RC 1604 64-66	217 --	< 5
RC 1604 66-68	217 --	< 5
RC 1604 68-70	217 --	< 5
RC 1604 70-72	217 --	< 5
RC 1604 72-74	217 --	< 5
RC 1604 74-76	217 --	5
RC 1604 76-78	217 --	1080
RC 1604 78-80	217 --	30
RC 1604 80-82	217 --	365
RC 1604 82-84	217 --	970
RC 1604 84-86	217 --	450
RC 1604 86-88	217 --	15
1604 A	217 --	75
1604 B	214 --	25
RC 1605 00-02	217 --	65
RC 1605 02-04	217 --	145
RC 1605 04-06	217 --	50
RC 1605 06-08	217 --	20
RC 1605 08-10	217 --	10

CERTIFICATION: Mark Vinh

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK
Comments: ATTN: JOHN ZBEETNOFF FAAX: RICK DIMENT

Certificate Date: 02-OCT-96
Invoice No. : 19633672
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9633672

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1605 10-12	217 --	10
RC 1605 12-14	217 --	5
RC 1605 14-16	217 --	5
RC 1605 16-18	217 --	15
RC 1605 18-20	217 --	< 5
RC 1605 20-22	217 --	< 5
RC 1605 22-24	217 --	< 5
RC 1605 24-26	217 --	50
RC 1605 26-28	217 --	35
RC 1605 28-30	217 --	< 5
RC 1605 30-32	217 --	15
RC 1605 32-34	217 --	< 5
RC 1605 34-36	217 --	80
RC 1605 36-38	217 --	515
RC 1605 38-40	217 --	570
RC 1605 40-42	217 --	< 5
RC 1605 42-44	217 --	< 5
RC 1605 44-46	217 --	< 5
RC 1605 46-48	217 --	5
RC 1605 48-50	217 --	5
RC 1605 50-52	217 --	2080
RC 1605 52-54	217 --	30
RC 1605 54-56	217 --	265
RC 1605 56-58	217 --	1030
RC 1605 58-60	217 --	115
RC 1605 60-62	217 --	15
RC 1605 62-64	217 --	15
RC 1605 64-66	217 --	10
RC 1605 66-68	217 --	5
RC 1605 68-70	217 --	< 5
RC 1605 70-72	217 --	15
RC 1605 72-74	217 --	75
RC 1605 74-76	217 --	235
RC 1605 76-78	217 --	525
RC 1606 00-02	217 --	75
RC 1606 02-04	217 --	70
RC 1606 04-06	217 --	1020
RC 1606 06-08	217 --	380
RC 1606 08-10	217 --	20
RC 1606 10-12	217 --	375

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK
Comments: ATTN: JOHN ZBEETNOFF FAAX: RICK DIMENT

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CERTIFICATE OF ANALYSIS A9633672

SAMPLE	PREP CODE	Au ppb FA+AA
RC 1606 12-14	217 --	635
RC 1606 14-16	217 --	525
RC 1606 16-18	217 --	345
RC 1606 18-20	217 --	25
RC 1606 20-22	217 --	15
RC 1606 22-24	217 --	< 5
RC 1606 24-26	217 --	< 5
RC 1606 26-28	217 --	5
RC 1606 28-30	217 --	5
RC 1606 30-32	217 --	75
RC 1606 32-34	217 --	65
RC 1606 34-36	217 --	30
RC 1606 36-38	217 --	20
RC 1606 38-40	217 --	170
RC 1606 40-42	217 --	110
RC 1606 42-44	217 --	10
1606 A	217 --	510
1606 B	214 --	350
RC 1607 00-02	217 --	60
RC 1607 02-04	217 --	30
RC 1607 04-06	217 --	5
RC 1607 06-08	217 --	95
RC 1607 08-10	217 --	960
RC 1607 10-12	217 --	705
RC 1607 12-14	217 --	45
RC 1607 14-16	217 --	1260
RC 1607 16-18	217 --	590
RC 1607 18-20	217 --	2710
RC 1607 20-22	217 --	410
RC 1607 22-24	217 --	70
RC 1607 24-26	217 --	40
RC 1607 26-28	217 --	15
RC 1607 28-30	217 --	10
RC 1607 30-32	217 --	< 5
RC 1607 32-34	217 --	< 5
RC 1607 34-36	217 --	< 5
RC 1607 36-38	217 --	< 5
RC 1607 38-40	217 --	< 5
RC 1609 00-02	217 --	400
RC 1609 02-04	217 --	2300

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SAMPLE	PREP CODE	Au ppb FA+AA
RC 1609 04-06	217 --	1440
RC 1609 06-08	217 --	2180
RC 1609 08-10	217 --	2150
RC 1609 10-12	217 --	1960
RC 1609 12-14	217 --	1940
RC 1609 14-16	217 --	90
RC 1609 16-18	217 --	50
RC 1609 18-20	217 --	45
RC 1609 20-22	217 --	25
RC 1609 22-24	217 --	20
RC 1609 24-26	217 --	45
RC 1610 00-02	217 --	65
RC 1610 02-04	217 --	30
RC 1610 04-06	217 --	20
RC 1610 06-08	217 --	< 5
RC 1610 08-10	217 --	< 5
RC 1610 10-12	217 --	90
RC 1610 12-14	217 --	110
RC 1610 14-16	217 --	3610
RC 1610 16-18	217 --	3360
RC 1610 18-20	217 --	2580
RC 1610 20-22	217 --	690
RC 1610 22-24	217 --	250
RC 1610 24-26	217 --	135
RC 1610 26-28	217 --	50
RC 1610 28-30	217 --	165
RC 1610 30-32	217 --	450
RC 1610 32-34	217 --	1630
RC 1610 34-36	217 --	30
RC 1610 36-38	217 --	15
RC 1610 38-40	217 --	< 5
RC 1610 40-42	217 --	< 5
RC 1610 42-44	217 --	5
1610 A	217 --	< 5
1610 B	214 --	85

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1611 00-02	217 --	45
RC-1611 02-04	217 --	50
RC-1611 04-06	217 --	330
RC-1611 06-08	217 --	505
RC-1611 08-10	217 --	270
RC-1611 10-12	217 --	475
RC-1611 12-14	217 --	855
RC-1611 14-16	217 --	855
RC-1611 16-18	217 --	290
RC-1611 18-20	217 --	390
RC-1611 20-22	217 --	1050
RC-1611 22-24	217 --	180
RC-1611 24-26	217 --	30
RC-1611 26-28	217 --	15
RC-1611 28-30	217 --	1010
RC-1611 30-32	217 --	415
RC-1611 32-34	217 --	40
RC-1611 34-36	217 --	15
RC-1611 36-38	217 --	< 5
RC-1611 38-40	217 --	< 5
RC-1611 40-42	217 --	15
RC-1611 42-44	217 --	5
RC-1611 44-46	217 --	15
RC-1611 46-48	217 --	20
RC-1611 48-50	217 --	15
RC-1611 50-52	217 --	20
RC-1611 52-54	217 --	10
RC-1611 54-56	217 --	10
RC-1611 56-58	217 --	10
RC-1611 58-60	217 --	< 5
RC-1611 60-62	217 --	10
RC-1611 62-64	217 --	< 5
RC-1611 64-66	217 --	< 5
RC-1611 66-68	217 --	< 5
RC-1611 68-70	217 --	15
RC-1611 70-72	217 --	10
RC-1611 72-74	217 --	20

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1612 00-02	217 --	< 5
RC-1612 02-04	217 --	< 5
RC-1612 04-06	217 --	< 5
RC-1612 06-08	217 --	15
RC-1612 08-10	217 --	30
RC-1612 10-12	217 --	155
RC-1612 12-14	217 --	120
RC-1612 14-16	217 --	< 5
RC-1612 16-18	217 --	< 5
RC-1612 18-20	217 --	< 5
RC-1612 20-22	217 --	< 5
RC-1612 22-24	217 --	< 5
RC-1612 24-26	217 --	20
RC-1612 26-28	217 --	300
RC-1612 28-30	217 --	10
RC-1612 30-32	217 --	305
RC-1612 32-34	217 --	365
RC-1612 34-36	217 --	180
RC-1612 36-38	217 --	105
RC-1612 38-40	217 --	70
RC-1612 40-42	217 --	280
RC-1612 42-44	217 --	70
RC-1612 44-46	217 --	40
RC-1612 46-48	217 --	5
RC-1612 48-50	217 --	15
RC-1612 50-52	217 --	< 5
RC-1612 52-54	217 --	< 5
RC-1612 54-56	217 --	< 5
RC-1612 56-58	217 --	10
RC-1612 58-60	217 --	< 5
RC-1612 A	217 --	150
RC-1612 B	217 --	120

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1613 00-02	217 --	60
RC-1613 02-04	217 --	< 5
RC-1613 04-06	217 --	< 5
RC-1613 06-08	217 --	< 5
RC-1613 08-10	217 --	< 5
RC-1613 10-12	217 --	< 5
RC-1613 12-14	217 --	< 5
RC-1613 14-16	217 --	< 5
RC-1613 16-18	217 --	< 5
RC-1613 18-20	217 --	< 5
RC-1613 20-22	217 --	< 5
RC-1613 22-24	217 --	20
RC-1613 24-26	217 --	< 5
RC-1613 26-28	217 --	< 5
RC-1613 28-30	217 --	< 5
RC-1613 30-32	217 --	< 5
RC-1613 32-34	217 --	< 5
RC-1613 34-36	217 --	< 5
RC-1613 36-38	217 --	50
RC-1613 38-40	217 --	< 5
RC-1613 40-42	217 --	25
RC-1613 42-44	217 --	160
RC-1613 44-46	217 --	395
RC-1613 46-48	217 --	415
RC-1613 48-50	217 --	315
RC-1613 50-52	217 --	80
RC-1613 52-54	217 --	650
RC-1613 54-56	217 --	275
RC-1613 56-58	217 --	260
RC-1613 58-60	217 --	450
RC-1613 60-62	217 --	265
RC-1613 62-64	217 --	45
RC-1613 64-66	217 --	80
RC-1613 66-68	217 --	260
RC-1613 68-70	217 --	1230
RC-1613 70-72	217 --	660
RC-1613 72-74	217 --	270
RC-1613 74-76	217 --	85
RC-1613 76-78	217 --	10
RC-1613 78-80	217 --	< 5

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1613 80-82	217 --	< 5
RC-1613 82-84	217 --	< 5

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CERTIFICATE OF ANALYSIS A9634285

SAMPLE	PREP CODE		Au ppb FA+AA
RC-1614 00-02	217	--	< 5
RC-1614 02-04	217	--	< 5
RC-1614 04-06	217	--	< 5
RC-1614 06-08	217	--	< 5
RC-1614 08-10	217	--	< 5
RC-1614 10-12	217	--	85
RC-1614 12-14	217	--	3050
RC-1614 14-16	217	--	2250
RC-1614 16-18	217	--	460
RC-1614 18-20	217	--	50
RC-1614 20-22	217	--	25
RC-1614 22-24	217	--	15
RC-1614 24-26	217	--	10
RC-1614 26-28	217	--	15
RC-1614 28-30	217	--	25
RC-1614 30-32	217	--	15
RC-1614 32-34	217	--	80
RC-1614 34-36	217	--	5
RC-1614 36-38	217	--	15
RC-1614 38-40	217	--	60
RC-1614 40-42	217	--	75
RC-1614 42-44	217	--	25
RC-1614 44-46	217	--	< 5
RC-1614 46-48	217	--	100
RC-1614 48-50	217	--	150
RC-1614 50-52	217	--	160
RC-1614 52-54	217	--	385
RC-1614 54-56	217	--	290
RC-1614 56-58	217	--	375
RC-1614 58-60	217	--	50
RC-1614 60-62	217	--	35
RC-1614 62-64	217	--	25
RC-1614 64-66	217	--	15
RC-1614 A	217	--	3180
RC-1614 B	217	--	2470

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1615 00-02	217 --	90
RC-1615 02-04	217 --	45
RC-1615 04-06	217 --	45
RC-1615 06-08	217 --	25
RC-1615 08-10	217 --	< 5
RC-1615 10-12	217 --	< 5
RC-1615 12-14	217 --	10
RC-1615 14-16	217 --	10
RC-1615 16-18	217 --	50
RC-1615 18-20	217 --	15
RC-1615 20-22	217 --	20
RC-1615 22-24	217 --	10
RC-1615 24-26	217 --	< 5
RC-1615 26-28	217 --	15
RC-1615 28-30	217 --	5
RC-1615 30-32	217 --	15
RC-1615 32-34	217 --	10
RC-1615 34-36	217 --	< 5
RC-1615 36-38	217 --	20
RC-1615 38-40	217 --	15
RC-1615 40-42	217 --	410
RC-1615 42-44	217 --	670
RC-1615 44-46	217 --	1450
RC-1615 46-48	217 --	2040
RC-1615 48-50	217 --	2480
RC-1615 50-52	217 --	2330
RC-1615 52-54	217 --	480
RC-1615 54-56	217 --	335
RC-1615 56-58	217 --	80
RC-1615 58-60	217 --	1100
RC-1615 60-62	217 --	145
RC-1615 62-64	217 --	15
RC-1615 64-66	217 --	35
RC-1615 66-68	217 --	50
RC-1615 68-70	217 --	190
RC-1615 70-72	217 --	145
RC-1615 72-74	217 --	40
RC-1615 74-76	217 --	< 5
RC-1615 76-78	217 --	< 5
RC-1615 78-80	217 --	< 5

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1616 00-02	217 --	15
RC-1616 02-04	217 --	< 5
RC-1616 04-06	217 --	15
RC-1616 06-08	217 --	30
RC-1616 08-10	217 --	5
RC-1616 10-12	217 --	< 5
RC-1616 12-14	217 --	25
RC-1616 14-16	217 --	175
RC-1616 16-18	217 --	580
RC-1616 18-20	217 --	15
RC-1616 20-22	217 --	15
RC-1616 22-24	217 --	< 5
RC-1616 24-26	217 --	15
RC-1616 26-28	217 --	120
RC-1616 28-30	217 --	570
RC-1616 30-32	217 --	145
RC-1616 32-34	217 --	35
RC-1616 34-36	217 --	< 5
RC-1616 36-38	217 --	10
RC-1616 38-40	217 --	910
RC-1616 40-42	217 --	1480
RC-1616 42-44	217 --	135
RC-1616 44-46	217 --	1060
RC-1616 46-48	217 --	500
RC-1616 48-50	217 --	1390
RC-1616 50-52	217 --	1100
RC-1616 52-54	217 --	100
RC-1616 54-56	217 --	20
RC-1616 56-58	217 --	< 5
RC-1616 58-60	217 --	< 5
RC-1616 60-62	217 --	25
RC-1616 62-64	217 --	15
RC-1616 64-66	217 --	25
RC-1616 66-68	217 --	25
RC-1616 68-70	217 --	50
RC-1616 70-72	217 --	150
RC-1616 72-74	217 --	60
RC-1616 74-76	217 --	80
RC-1616 76-78	217 --	60
RC-1616 78-80	217 --	10

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1616 80-82	217 --	10
RC-1616 82-84	217 --	< 5
RC-1616 A	217 --	175
RC-1616 B	217 --	530

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1617 00-02	217 --	140
RC-1617 02-04	217 --	35
RC-1617 04-06	217 --	1690
RC-1617 06-08	217 --	345
RC-1617 08-10	217 --	135
RC-1617 10-12	217 --	50
RC-1617 12-14	217 --	35
RC-1617 14-16	217 --	440
RC-1617 16-18	217 --	85
RC-1617 18-20	217 --	70
RC-1617 20-22	217 --	305
RC-1617 22-24	217 --	470
RC-1617 24-26	217 --	75
RC-1617 26-28	217 --	90
RC-1617 28-30	217 --	15
RC-1617 30-32	217 --	10
RC-1617 32-34	217 --	5
RC-1617 34-36	217 --	5
RC-1617 36-38	217 --	60
RC-1617 38-40	217 --	10
RC-1617 40-42	217 --	< 5
RC-1617 42-44	217 --	70
RC-1617 44-46	217 --	790
RC-1617 46-48	217 --	140
RC-1617 48-50	217 --	20
RC-1617 50-52	217 --	< 5
RC-1617 52-54	217 --	< 5
RC-1617 54-56	217 --	< 5
RC-1617 56-58	217 --	< 5

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SAMPLE	PREP CODE	Au ppb FA+AA
RC-1618 00-02	217 --	55
RC-1618 02-04	217 --	115
RC-1618 04-06	217 --	30
RC-1618 06-08	217 --	75
RC-1618 08-10	217 --	45
RC-1618 10-12	217 --	10
RC-1618 12-14	217 --	< 5
RC-1618 14-16	217 --	40
RC-1618 16-18	217 --	15
RC-1618 18-20	217 --	65
RC-1618 20-22	217 --	< 5
RC-1618 22-24	217 --	< 5
RC-1618 24-26	217 --	10
RC-1618 26-28	217 --	195
RC-1618 28-30	217 --	20
RC-1618 30-32	217 --	580
RC-1618 32-34	217 --	1400
RC-1618 34-36	217 --	40
RC-1618 36-38	217 --	15
RC-1618 38-40	217 --	10
RC-1618 40-42	217 --	15
RC-1618 42-44	217 --	< 5
RC-1618 44-46	217 --	25
RC-1618 46-48	217 --	15
RC-1618 48-50	217 --	10
RC-1618 50-52	217 --	< 5
RC-1618 52-54	217 --	< 5
RC-1618 54-56	217 --	5
RC-1618 56-58	217 --	< 5
RC-1618 58-60	217 --	< 5
RC-1618 60-62	217 --	< 5
RC-1618 62-64	217 --	< 5
RC-1618 64-66	217 --	< 5
RC-1618 66-68	217 --	< 5
RC-1618 68-70	217 --	< 5
RC-1618A	217 --	20
RC-1618B	217 --	65

CERTIFICATION: Mark Vinh

Entered
Au oz/t

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 96

DATE Sept 27/96

	SAMPLE #	Au g/t
1	1619 0 - 2	0.03
2	2 - 4	0.02
3	4 - 6	0.03
4	6 - 8	<0.02
5	8 - 10	<0.02
6	10 - 12	0.02
7	12 - 14	0.02
8	14 - 16	<0.02
9	16 - 18	0.02
10	18 - 20	<0.02
11	20 - 22	0.02
12	22 - 24	0.03
13	24 - 26	0.04
14	26 - 28	0.18
15	28 - 30	0.03
16	30 - 32	0.02
17	32 - 34	0.03
18	34 - 36	0.03
19	36 - 38	0.04
20	38 - 40	0.44
21	40 - 42	0.06
22	42 - 44	0.05

	SAMPLE #	Au g/t
23	44 - 46	0.21
24	46 - 48	0.08
25	48 - 50	0.60
26	50 - 52	1.71
27	52 - 54	0.40
28	54 - 56	0.04
29	56 - 58	0.02
30	58 - 60	0.07
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

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SUPERVISOR

Entered Assays

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC-96

DATE Sept 27/96

	SAMPLE #	Au g/t
1	1620 - A	0.38
2	- B	0.47
3		
4	1620 - 0 - 2	0.16
5	2 - 4	0.44
6	4 - 6	0.54
7	6 - 8	0.93
8	8 - 10	0.39
9	10 - 12	0.52
10	12 - 14	1.83
11	14 - 16	0.83
12	16 - 18	0.26
13	18 - 20	0.04
14	20 - 22	0.02
15	22 - 24	0.27
16	24 - 26	0.07
17	26 - 28	0.41
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 96

DATE Apr 27/96

	SAMPLE #	Au g/t
1	1621 2-4	0.08
2	4-6	<0.02
3	6-8	<0.02
4	8-10	<0.02
5	10-12	0.02
6	12-14	2.56
7	14-16	3.51
8	16-18	1.88
9	18-20	1.13
10	20-22	0.56
11	22-24	0.22
12	24-26	0.24
13	26-28	0.12
14	28-30	0.03
15	30-32	0.02
16	32-34	<0.02
17	34-36	0.02
18	36-38	0.03
19	38-40	0.02
20	40-42	0.02
21	42-44	<0.02
22	44-46	0.02

	SAMPLE #	Au g/t
23	46-48	0.02
24	48-50	0.04
25	50-52	0.04
26	52-54	0.04
27	54-56	0.04
28	56-58	0.04
29	58-60	0.04
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 96

DATE Apr 27/96

	SAMPLE #	Au g/t
1	1622 0-2	0.12
2	2-4	0.05
3	4-6	0.09
4	6-8	0.03
5	8-10	0.61
6	10-12	2.24
7	12-14	0.27
8	14-16	0.05
9	16-18	0.06
10	18-20	0.08
11	20-22	0.07
12	22-24	0.07
13	24-26	0.06
14	26-28	0.34
15	28-30	0.39
16	30-32	0.04
17	32-34	0.03
18	34-36	0.05
19	36-38	0.15
20	38-40	0.10
21	40-42	0.03
22	42-44	0.11

	SAMPLE #	Au g/t
23	44-46	0.07
24	46-48	0.10
25	48-50	0.05
26	50-52	0.05
27	52-54	0.05
28	54-56	0.15
29	56-58	0.25
30	58-60	0.25
31	60-62	0.06
32	62-64	0.87
33	64-66	0.77
34	66-68	1.42
35	68-70	1.04
36	70-72	0.94
37	72-74	1.39
38	74-76	0.12
39	76-78	0.55
40	78-80	0.19
41	80-82	0.06
42	82-84	0.03
43		
44		

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 96

DATE Sept 27/96

	SAMPLE #	Au g/t
1	1623 0-2	<0.02
2	2-4	0.02
3	4-6	<0.02
4	6-8	0.04
5	8-10	<0.02
6	10-12	0.02
7	12-14	<0.02
8	14-16	<0.02
9	16-18	0.16
10	18-20	0.15
11	20-22	0.03
12	22-24	0.09
13	24-26	0.34
14	26-28	0.02
15	28-30	0.03
16	30-32	0.03
17	32-34	<0.02
18	34-36	0.02
19	36-38	<0.02
20	38-40	<0.02
21	40-42	<0.02
22	42-44	0.06

	SAMPLE #	Au g/t
23	44-46	0.02
24	46-48	<0.02
25	48-50	0.08
26	50-52	0.03
27	52-54	<0.02
28	54-56	<0.02
29	56-58	0.04
30	58-60	0.05
31	60-62	0.04
32	62-64	0.02
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		

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VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES RC 96

DATE Sept 28/96

	SAMPLE #	Au g/t
1	1624 0 - 2	0.02
2	2 - 4	0.05
3	4 - 6	0.04
4	6 - 8	0.07
5	8 - 10	0.12
6	10 - 12	0.05
7	12 - 14	0.06
8	14 - 16	0.11
9	16 - 18	0.03
10	18 - 20	0.05
11	20 - 22	0.08
12	22 - 24	0.32
13	24 - 26	0.33
14	26 - 28	0.05
15	28 - 30	0.05
16	30 - 32	<0.02
17	32 - 34	0.02
18	34 - 36	0.11
19	36 - 38	0.41
20	38 - 40	0.25
21	40 - 42	0.11
22	42 - 44	0.02

	SAMPLE #	Au g/t
23	44 - 46	0.02
24	46 - 48	0.04
25	48 - 50	0.02
26	50 - 52	0.03
27	52 - 54	<0.02
28	54 - 56	0.04
29	56 - 58	0.05
30	58 - 60	0.06
31	60 - 62	0.04
32	62 - 64	0.05
33	64 - 66	0.07
34	66 - 68	0.03
35	68 - 70	0.28
36	70 - 72	2.57
37	72 - 74	2.11
38	74 - 76	0.63
39	76 - 78	0.23
40	78 - 80	0.10
41	80 - 82	0.24
42	82 - 84	0.54
43	84 - 86	0.07
44	86 - 88	0.05

1624A 0.04

B 0.08

Typed to JZ

SUPERVISOR

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1658
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page ıber : 1
Total ages : 2
Certificate Date: 08-NOV-96
Invoice No. : I9638911
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9638911

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	217 --	1660
02-04	217 --	2520
04-06	217 --	65
06-08	217 --	50
08-10	217 --	75
10-12	217 --	15
12-14	217 --	10
14-16	217 --	45
16-18	217 --	5
18-20	217 --	10
20-22	217 --	55
22-24	217 --	15
24-26	217 --	5
26-28	217 --	< 5
28-30	217 --	< 5
30-32	217 --	< 5
32-34	217 --	< 5
34-36	217 --	< 5
36-38	217 --	< 5
38-40	217 --	< 5
40-42	217 --	< 5
42-44	217 --	< 5
44-46	217 --	< 5
46-48	217 --	< 5
48-50	217 --	< 5
50-52	217 --	< 5
52-54	217 --	< 5
54-56	217 --	< 5
56-58	217 --	< 5
58-60	217 --	< 5
60-62	217 --	< 5
62-64	217 --	< 5
64-66	217 --	< 5
66-68	217 --	< 5
68-70	217 --	< 5
70-72	217 --	< 5
72-74	217 --	< 5
74-76	217 --	< 5
76-78	217 --	< 5
78-80	217 --	< 5

CERTIFICATION: Thank Vonk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1658
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page Number :2
Total Pages :2
Certificate Date: 08-NOV-96
Invoice No. :I9638911
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638911

SAMPLE	PREP CODE	Au ppb FA+AA
80-82	217 --	10
A	217 --	5
B	217 --	10

CERTIFICATION: Thanh Vanh

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1659
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page ber :1
Total Pages :2
Certificate Date: 06-NOV-96
Invoice No. : I9638912
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638912

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	217 --	55
02-04	217 --	20
04-06	217 --	10
06-08	217 --	75
08-10	217 --	20
10-12	217 --	< 5
12-14	217 --	60
14-16	217 --	< 5
16-18	217 --	5
18-20	217 --	< 5
20-22	217 --	< 5
22-24	217 --	< 5
24-26	217 --	< 5
26-28	217 --	< 5
28-30	217 --	< 5
30-32	217 --	< 5
32-34	217 --	< 5
34-36	217 --	< 5
36-38	217 --	< 5
38-40	217 --	< 5
40-42	217 --	< 5
42-44	217 --	< 5
44-46	217 --	< 5
46-48	217 --	< 5
48-50	217 --	< 5
50-52	217 --	< 5
52-54	217 --	< 5
54-56	217 --	< 5
56-58	217 --	< 5
58-60	217 --	< 5
60-62	217 --	< 5
62-64	217 --	< 5
64-66	217 --	< 5
66-68	217 --	< 5
68-70	217 --	< 5
70-72	217 --	< 5
72-74	217 --	< 5
74-76	217 --	< 5
76-78	217 --	< 5
78-80	217 --	< 5

CERTIFICATION: Mark Vonk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1659
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Certificate Date: 06-NOV-96
Invoice No. :19638912
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638912

SAMPLE	PREP CODE	Au ppb FA+AA
80-82	217 --	< 5
82-84	217 --	< 5
84-86	217 --	< 5
86-88	217 --	< 5
88-90	217 --	< 5
90-92	217 --	< 5
92-94	217 --	< 5

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1665
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page ber :1
Total ages :2
Certificate Date: 06-NOV-96
Invoice No. :19638929
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638929

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	217 --	10
02-04	217 --	40
04-06	217 --	10
06-08	217 --	5
08-10	217 --	20
10-12	217 --	10
12-14	217 --	< 5
14-16	217 --	< 5
16-18	217 --	< 5
18-20	217 --	< 5
20-22	217 --	< 5
22-24	217 --	60
24-26	217 --	20
26-28	217 --	15
28-30	217 --	< 5
30-32	217 --	< 5
32-34	217 --	< 5
34-36	217 --	10
36-38	217 --	< 5
38-40	217 --	< 5
40-42	217 --	10
42-44	217 --	< 5
44-46	217 --	10
46-48	217 --	< 5
48-50	217 --	< 5
50-52	217 --	< 5
52-54	217 --	< 5
54-56	217 --	< 5
56-58	217 --	< 5
58-60	217 --	< 5
60-62	217 --	20
62-64	217 --	90
64-66	217 --	100
66-68	217 --	15
68-70	217 --	70
70-72	217 --	40
72-74	217 --	< 5
74-76	217 --	< 5
76-78	217 --	< 5
78-80	217 --	75

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1665
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page ber :2
Total ages :2
Certificate Date: 06-NOV-96
Invoice No. :19638929
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638929

SAMPLE	PREP CODE	Au ppb FA+AA
80-82	217 --	70
82-84	217 --	10
84-86	217 --	< 5
86-88	217 --	< 5
88-90	217 --	3850
90-92	217 --	1890
92-94	217 --	1830
94-96	217 --	1190
96-98	217 --	405
98-100	217 --	3970
100-102	217 --	3650
102-104	217 --	3700
104-106	217 --	995
106-108	217 --	395
108-110	217 --	180
110-112	217 --	25
112-114	217 --	30
114-115	217 --	35

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERYCREEKRC961666
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page iber :1
Total Pages :2
Certificate Date: 16-NOV-96
Invoice No. :19639921
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9639921

SAMPLE	PREP CODE	Au ppb FA+AA
1666 A	217 --	15
1666 B	217 --	10
000-002	217 --	85
002-004	217 --	50
004-006	217 --	35
006-008	217 --	20
008-010	217 --	10
010-012	217 --	< 5
012-014	217 --	< 5
014-016	217 --	< 5
016-018	217 --	< 5
018-020	217 --	< 5
020-022	217 --	< 5
022-024	217 --	< 5
024-026	217 --	< 5
026-028	217 --	< 5
028-030	217 --	< 5
030-032	217 --	< 5
032-034	217 --	< 5
034-036	217 --	< 5
036-038	217 --	60
038-040	217 --	130
040-042	217 --	295
042-044	217 --	160
044-046	217 --	55
046-048	217 --	50
048-050	217 --	230
050-052	217 --	70
052-054	217 --	25
054-056	217 --	10
056-058	217 --	40
058-060	217 --	20
060-062	217 --	10
062-064	217 --	< 5
064-066	217 --	860
066-068	217 --	25
068-070	217 --	< 5
070-072	217 --	< 5
072-074	217 --	< 5
074-076	217 --	< 5

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERYCREEKRC961666
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Certificate Date: 16-NOV-96
Invoice No. : I9639921
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9639921

SAMPLE	PREP CODE		Au ppb FA+AA
076-078	217	--	< 5
078-080	217	--	< 5
080-082	217	--	< 5
082-084	217	--	< 5
084-086	217	--	45
086-088	217	--	30
088-090	217	--	20
090-092	217	--	15
092-094	217	--	10
094-096	217	--	105
096-098	217	--	180
098-100	217	--	525
100-102	217	--	1390
102-104	217	--	4220
104-106	217	--	150
106-108	217	--	40
108-110	217	--	25
110-112	217	--	15
112-114	217	--	10
114-116	217	--	15
116-118	217	--	< 5
118-120	217	--	< 5
120-122	217	--	< 5
122-124	217	--	< 5
124-126	217	--	< 5
126-128	217	--	< 5
128-130	217	--	< 5
130-132	217	--	< 5
132-134	217	--	< 5
134-136	217	--	< 5
136-138	217	--	< 5
138-140	217	--	< 5
140-142	217	--	40

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK,RC96 1007
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page Number 1
Total Pages 1
Certificate Date 05-NOV-96
Invoice No. I-9638930
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9638930

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
00-02	217 --	960
02-04	217 --	45
04-06	217 --	30
06-08	217 --	15
08-10	217 --	170
10-12	217 --	35
12-14	217 -	20
14-16	217 --	420
16-18	217 --	1190
18-20	217 --	300
20-22	217 --	90
22-24	217 --	55
24-26	217 --	40
26-28	217 --	25
28-30	217 --	15
30-32	217 --	15
32-34	217 --	10
34-36	217 --	10
36-38	217 --	20
38-40	217 --	< 5
40-42	217 -	< 5
42-44	217 --	< 5
44-46	217 --	< 5
46-48	217 --	< 5
48-50	217 --	< 5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project: BREWERY CREEK
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number 1
Total Pages 1
Certificate Date 25-NOV-96
Invoice No. I-9640561
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9640561

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
RC96.1668 A	217 --	535
RC96.1668 B	217 --	135
RC96.1668 0-2	217 --	50
RC96.1668 2-4	217 --	20
RC96.1668 4-6	217 --	5
RC96.1668 6-8	217 --	10
RC96.1668 8-10	217	10
RC96.1668 10-12	217 --	30
RC96.1668 12-14	217 --	115
RC96.1668 14-16	217 --	275
RC96.1668 16-18	217 --	415
RC96.1668 18-20	217 --	145
RC96.1668 20-22	217 --	10
RC96.1668 22-24	217 --	425
RC96.1668 24-26	217 --	405
RC96.1668 26-28	217 --	590
RC96.1668 28-30	217 --	75
RC96.1668 30-32	217 --	40
RC96.1668 32-34	217 --	30
RC96.1668 34-36	217 --	25
RC96.1668 36-38	217 --	675
RC96.1668 38-40	217 --	430
RC96.1668 40-42	217 --	25
RC96.1668 42-44	217 --	20
RC96.1668 44-46	217 --	15
RC96.1668 46-48	217 --	10
RC96.1668 48-50	217 --	10
RC96.1668 50-52	217 --	5
RC96.1668 52-54	217	10
RC96.1668 54-56	217 --	15
RC96.1668 56-58	217 --	15
RC96.1668 58-60	217 --	10

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1669
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 06-NOV-96
Invoice No. :I9638931
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638931

SAMPLE	PREP CODE		Au ppb FA+AA
00-02	217	--	75
02-04	217	--	75
04-06	217	--	315
06-08	217	--	2370
08-10	217	--	840
10-12	217	--	1220
12-14	217	--	1010
14-16	217	--	2100
16-18	217	--	2080
18-20	217	--	830
20-22	217	--	300
22-24	217	--	370
24-26	217	--	610
26-28	217	--	420
28-30	217	--	100
30-32	217	--	240
32-34	217	--	110
34-36	217	--	45
36-38	217	--	25
38-40	217	--	55
40-42	217	--	15
42-44	217	--	80
44-46	217	--	< 5
46-48	217	--	< 5
48-49	217	--	< 5

CERTIFICATION: Thanh Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1670
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 06-NOV-96
Invoice No. :19638932
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638932

SAMPLE	PREP CODE	Au ppb FA+AA
00-02	217 --	100
02-04	217 --	70
04-06	217 --	50
06-08	217 --	30
08-10	217 --	20
10-12	217 --	15
12-14	217 --	< 5
14-16	217 --	10
16-18	217 --	< 5
18-20	217 --	< 5
20-22	217 --	< 5
22-24	217 --	< 5
24-26	217 --	< 5
26-28	217 --	< 5
28-30	217 --	< 5
30-32	217 --	360
32-34	217 --	110
34-36	217 --	145
36-38	217 --	100
38-40	217 --	40
A	217 --	10
B	217 --	10

CERTIFICATION: Mark Vosh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1670
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page Number :1
Total Pages :1
Certificate Date: 06-NOV-96
Invoice No. :I9638932
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638932

SAMPLE	PREP CODE		Au ppb FA+AA									
00-02	217	--	100									
02-04	217	--	70									
04-06	217	--	50									
06-08	217	--	30									
08-10	217	--	20									
10-12	217	--	15									
12-14	217	--	< 5									
14-16	217	--	10									
16-18	217	--	< 5									
18-20	217	--	< 5									
20-22	217	--	< 5									
22-24	217	--	< 5									
24-26	217	--	< 5									
26-28	217	--	< 5									
28-30	217	--	< 5									
30-32	217	--	360									
32-34	217	--	110									
34-36	217	--	145									
36-38	217	--	100									
38-40	217	--	40									
A	217	--	10									
B	217	--	10									

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK.RC96 1671
Comments: ATTN:R.DIMENT CC:J.ZBEETNOFF

Page ber :1
Total Pages :1
Certificate Date: 06-NOV-96
Invoice No. :I9638933
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9638933

SAMPLE	PREP CODE		Au ppb FA+AA
00-02	217	--	20
02-04	217	--	10
04-06	217	--	< 5
06-08	217	--	20
08-10	217	--	< 5
10-12	217	--	< 5
12-14	217	--	< 5
14-16	217	--	10
16-18	217	--	10
18-20	217	--	< 5
20-22	217	--	< 5
22-24	217	--	< 5
24-26	217	--	10
26-28	217	--	< 5
28-30	217	--	< 5
30-32	217	--	< 5
32-34	217	--	< 5
34-36	217	--	< 5
36-38	217	--	< 5
38-40	217	--	10
40-42	217	--	20
42-44	217	--	20
44-46	217	--	1080
46-48	217	--	1020
48-50	217	--	720
50-52	217	--	155
52-54	217	--	325
54-56	217	--	1430

CERTIFICATION:

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 29/96

SAMPLE SERIES DD 96-85

SAMPLE SERIES _____

	SAMPLE	Au/t
1	126.95 - 128.85	<0.02
2	128.85 - 130.85	0.38
3	130.85 - 132.0	0.46
4	132.0 - 134.11	<0.02
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
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17		
18		
19		
20		
21		
22		

	SAMPLE	Au/t
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24		
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33		
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36		
37		
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39		
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41		
42		
43		
44		

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 28/96

SAMPLE SERIES DD-96

SAMPLE SERIES _____

	SAMPLE	Au/t
1	-85 3-4	0.05
2	4-6	<0.02
3	6-8	<0.02
4	8-10	<0.02
5	10-12	<0.02
6	12-13	<0.02
7	13-14	<0.02
8	14-16	<0.02
9	16-18	<0.02
10	18-20	0.09
11	20-21.3	<0.02
12	21.3-23.5	<0.02
13	23.5-24	<0.02
14	24-26	<0.02
15	26-27.5	0.03
16	27.5-28.4	<0.02
17	28.4-30	<0.02
18	30-32	<0.02
19	32-32.9	<0.02
20	32.9-34.9	<0.02
21	34.9-36.9	<0.02
22	36.9-37.9	<0.02

	SAMPLE	Au/t
23	37.9-39.5	0.02
24	39.5-40.15	<0.02
25	40.15-40.9	<0.02
26	40.9-42.9	<0.02
27	42.9-44.9	<0.02
28	44.9-46.9	0.02
29	46.9-48.1	0.11
30	48.1-49.6	0.03
31	49.6-50.7	0.05
32	50.7-52.7	0.03
33	52.7-54.4	<0.02
34	54.4-56.4	0.03
35	56.4-57.3	0.03
36	57.3-59.0	0.19
37	59.0-59.8	0.16
38	59.8-61.65	0.12
39	61.65-63.65	<0.02
40		
41		
42		
43		
44		

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE aug 28/96

SAMPLE SERIES OD 96

	SAMPLE	Au/t
1	85- 63.65-65.53	0.04
2	65.53 - 66	TO FOLLOW
3	66 - 67.5	<0.02
4	67.5 - 69.4	<0.02
5	69.4 - 71.4	<0.02
6	71.4 - 73.3	<0.02
7	73.3 - 73.9	<0.02
8	73.9 - 75.4	0.07
9	75.4 - 77.2	<0.02
10	77.2 - 77.72	0.03
11	77.72 - 79.25	<0.02
12	79.25 - 80.77	0.03
13	80.77 - 81.42	<0.02
14	81.42 - 82.2	0.03
15	82.2 — 84.05	0.03
16	84.05 - 86.05	0.02
17	86.05 - 88.05	0.02
18	88.05 - 89.75	0.02
19	89.75 - 91.75	<0.02
20	91.75 - 93.4	0.03
21	93.4 - 94.75	0.02
22	94.15 - 95.1	0.02

SAMPLE SERIES _____

	SAMPLE	Au/t
23	95.1 - 96.5	0.08
24	96.5 - 97.0	<0.02
25	97.0 - 99.0	<0.02
26	99.0 - 100.5	<0.02
27	100.5 - 102	<0.02
28	102 - 104	0.02
29	104 - 105.2	0.14
30	105.2 - 107.2	<0.02
31	107.2 - 109.2	<0.02
32	109.2 - 111.2	<0.02
33	111.2 - 112.4	0.02
34	112.4 - 113.7	<0.02
35	113.7 - 115.4	0.02
36	115.4 - 115.8	0.23
37	115.8 - 117.5	0.15
38	117.5 - 119.0	0.33
39	119.0 - 120.3	0.08
40	120.3 - 122.3	0.10
41	122.3 - 122.95	0.02
42	122.95 - 124.95	0.42
43	124.95 - 126.95	0.02
44		

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 30/96

SAMPLE SERIES DD-96

SAMPLE SERIES _____

	SAMPLE	Au/t
1	85	
2	134.11 – 136.11	0.06
3	136.11 – 138.11	0.04
4	138.11 – 140.11	0.03
5	140.11 – 141.11	0.05
6	141.11 – 142.55	0.04
7	142.55 – 143.7	0.03
8	143.7 – 145.7	0.08
9	145.7 – 147.7	0.03
10	147.7 – 148.75	0.03
11	148.75 – 150.5	0.04
12	150.5 – 151.85	0.08
13	151.85 – 153.85	0.03
14	153.85 – 155.15	0.03
15	155.15 – 156.75	0.19
16	156.75 – 158.60	0.10
17		
18		
19	161.9 – 163.3	0.06
20	163.3 – 164.0	0.04
21		
22	255.25 – 255.8	0.04

	SAMPLE	Au/t
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
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37		
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43		
44		

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 31/96

SAMPLE SERIES DO-96-(85)

SAMPLE SERIES _____

	SAMPLE	Au/t
1	158.6 - 159.9	<0.02
2	159.9 - 161.9	<0.02
3		
4	164.0 - 165.6	<0.02
5	165.6 - 167.2	<0.02
6	167.2 - 168.0	
7	168.0 - 170.0	
8	170.0 - 172.0	
9	172. - 174	
10	174 - 175.6	
11	175.6 - 177.6	
12	177.6 - 179.6	
13	179.6 - 180.35	
14	180.35 - 181.25	
15	181.25 - 183.25	
16	183.25 - 184.8	
17	184.8 - 185.45	
18	185.45 - 187.2	<0.02
19	187.2 - 189.2	0.03
20	189.2 - 190.35	<0.02
21	190.35 - 191.9	<0.02
22	191.9 - 192.5	<0.02

	SAMPLE	Au/t
23	192.5 - 194.5	<0.02
24	194.5 - 196.5	
25	196.5 - 197.15	
26	197.15 - 198.15	
27	198.15 - 199.15	
28	199.15 - 200.1	
29	200.1 - 202.1	
30	202.1 - 203.3	
31	203.3 - 205.3	
32	205.3 - 207.3	
33	207.3 - 209.3	
34	209.3 - 211.3	
35	211.3 - 213.3	<0.02
36	213.3 - 215.3	0.03
37	215.3 - 217.3	<0.02
38	217.3 - 219.3	
39	219.3 - 221.3	
40	221.3 - 223.3	
41	223.3 - 225.3	
42	225.3 - 226.5	
43	226.5 - 228.5	
44	228.5 - 229	<0.02

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 31/96

SAMPLE SERIES 0096 - (85)

SAMPLE SERIES _____

	SAMPLE	Au/t
1	229 – 229.3	<0.02
2	229.3 – 230.2	<0.02
3	230.2 – 232.2	0.03
4	232.2 – 233.7	<0.02
5	233.7 – 235.2	<0.02
6	235.2 – 236.7	<0.02
7	236.7 – 238.7	0.02
8	238.7 – 240.8	<0.02
9	240.8 – 242.8	<0.02
10	242.8 – 243.85	<0.02
11	243.85 – 245.85	0.03
12	245.85 – 247.7	<0.02
13	247.7 – 248.4	<0.02
14	248.4 – 250.2	<0.02
15	250.2 – 251.25	<0.02
16	251.25 – 253.25	<0.02
17	253.25 – 255.25	0.05
18		
19		
20		
21		
22		

	SAMPLE	Au/t
23		
24		
25		
26		
27		
28		
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30		
31		
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44		

SUPERVISOR _____

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES D.D. 96-85 DATE Aug. 19/96.

	SAMPLE #	Au g/t
1	253.63 —	
2	255.25	0.02
3	- 255.8	0.03
4	- 257.2	5.91
5	- 259.4	0.87
6	- 261.4	3.49
7	- 263.24	4.02
8	- 264.24	0.65
9	- 265.79	1.46
10	- 266.7	0.23
11	- 268.49	TO FOLLOW 3.63
12	- 269.61	1.10
13	- 271.85	0.24
14	- 273.42	0.03
15	- 275.06	0.12
16	- 277.06	0.51
17	- 279.06	0.42
18	- 281.06	0.68
19	- 282.77	0.40
20	- 285.77	0.95
21	- 285.40	0.44
22	- 287.39	0.04

	SAMPLE #	Au g/t
23	- 288.39	0.02
24	- 290.03	<0.02
25	- 292.03	0.02
26	- 294.03	0.02
27	- 295.97	<0.02
28	- 297.43	<0.02
29	- 299.01	0.02
30		
31		
32	272.48 —	
33	275.98	0.07
34		
35		
36		
37		
38		
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40		
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42		
43		
44		

SUPERVISOR

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES DD 96-85

DATE Aug. 19/96.

	SAMPLE #	Au g/t
1	Follow up:	
2		
3	266.7 —	
4	268.49	3.63
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		

	SAMPLE #	Au g/t
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
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43		
44		

SUPERVISOR

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 31/96

SAMPLE SERIES 0096-86

SAMPLE SERIES _____

	SAMPLE	Au/t
1	0 - 2.74	NO SAMPLE
2	2.74 - 4.74	<0.02
3	4.74 - 6.74	
4	6.74 - 8.74	
5	8.74 - 10.74	
6	10.74 - 12.74	
7	12.74 - 14.74	
8	14.74 - 16.74	
9	16.74 - 18.59	0.03
10	18.59 - 20.59	0.02
11	20.59 - 22.59	0.03
12	22.59 - 24.59	0.03
13	24.59 - 26.59	0.03
14	26.59 - 28.59	0.02
15	28.59 - 29.59	<0.02
16	29.59 - 31.28	<0.02
17	31.28 - 33.28	<0.02
18	33.28 - 35.28	0.02
19	35.28 - 37.28	<0.02
20	37.28 - 38.06	<0.02
21	38.06 - 40.06	<0.02
22	40.06 - 42.06	<0.02

	SAMPLE	Au/t
23	42.06 - 43.52	<0.02
24	43.52 - 45.52	0.03
25	45.52 - 47.55	<0.02
26	47.55 - 49.55	
27	49.55 - 50.6	
28	50.6 - 52.12	
29	52.12 - 54.12	
30	54.12 - 56.12	<0.02
31		
32		
33		
34		
35		
36		
37		
38		
39		
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41		
42		
43		
44		

SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 31/96

SAMPLE SERIES DD96 (86)

SAMPLE SERIES _____

	SAMPLE	Au/t
1	47.55 - 49.55	<0.02
2	49.55 - 50.6	<0.02
3	50.6 - 52.12	<0.02
4		
5		
6		
7		
8		
9		
10		
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22		

	SAMPLE	Au/t
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SUPERVISOR _____

VICEROY BREWERY CREEK OPERATION

FINAL ASSAY REPORT SHEET

DATE Aug 30/96

SAMPLE SERIES DD96-86

SAMPLE SERIES _____

	SAMPLE	Au/t
1	142.95 - 144.95	1.62
2	144.95 - 146.85	0.21
3	146.85 - 147.65	0.65
4	147.65 - 149.65	0.02
5	149.65 - 150.65	<0.02
6	150.65 - 152.04	0.06
7	152.04 - 153.81	0.04
8	153.81 - 154.23	0.02
9	154.23 - 155.16	<0.02
10	155.16 - 157.4	0.43
11	157.4 - 158.99	0.50
12	158.99 - 160.02	<0.02
13	160.02 - 162.02	<0.02
14	162.02 - 164.02	<0.02
15		
16	174.55 - 176.55	<0.02
17	176.55 - 178.55	<0.02
18	178.55 - 180.55	<0.02
19	180.55 - 182.55	<0.02
20	182.55 - 184.55	<0.02
21	184.55 - 185.64	<0.02
22	185.64 - 187.64	<0.02

	SAMPLE	Au/t
23	187.64 - 189.64	<0.02
24		
25		
26		
27		
28		
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30		
31		
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SUPERVISOR _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: VICEROY RESOURCES CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

INVOICE NUMBER I9636901

BILLING INFORMATION

Date: 22-OCT-96
Project: BREWERY CK. DD96-90
P.O. No.: 10573
Account: LDS

Comments:

Billing: For analysis performed on Certificate A9636901

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
9	217 - Geochem ring entire sample	2.50		
	983 - Au ppb FA+AA	9.75	12.25	110.25

DD96-90

Total Cost	$	110.25
Client Discount (25%)	$	-27.56
Net Cost	$	82.69
(Reg# R100938885) GST	$	5.79
TOTAL PAYABLE (CDN)	$	**88.48**

Au checks

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

A9636901

Comments: ATTN:RICK DIMENT

CERTIFICATE A9636901

(LDS) - VICEROY RESOURCES CORPORATION

Project: BREWERY CK. DD96-90
P.O. # : 10573

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	9	Geochem ring entire sample

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	9	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-90
Comments: ATTN:RICK DIMENT

Page Number : 1
Total Pages : 1
Certificate Date: 22-OCT-96
Invoice No. : 19636901
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9636901

SAMPLE	PREP CODE		Au ppb FA+AA
119.2-120.6	217	--	20
120.6-121.2	217	--	< 5
121.2-123.2	217	--	90
123.2-124.3	217	--	120
124.3-125.8	217	--	1380
125.8-126.5	217	--	145
126.5-128.1	217	--	120
128.1-130.1	217	--	40
130.1-132.1	217	--	35

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-90
Comments: ATTN:RICK DIMENT

Page Number :1
Total Pages :1
Certificate Date: 22-OCT-96
Invoice No. :I9636901
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636901

SAMPLE	PREP CODE	Au ppb FA+AA
119.2-120.6	217 --	20
120.6-121.2	217 --	< 5
121.2-123.2	217 --	90
123.2-124.3	217 --	120
124.3-125.8	217 --	1380
125.8-126.5	217 --	145
126.5-128.1	217 --	120
128.1-130.1	217 --	40
130.1-132.1	217 --	35

CERTIFICATION:

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: VICEROY RESOURCES CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

INVOICE NUMBER I9636906

BILLING INFORMATION

Date: 22-OCT-96
Project: BREWERY CK. DD96-92
P.O. No.: 10573
Account: LDS

Comments:

Billing: For analysis performed on Certificate A9636906

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

DD96-92

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
41	217 - Geochem ring entire sample	2.50		
	983 - Au ppb FA+AA	9.75	12.25	502.25

Total Cost $	502.25
Client Discount (25%) $	-125.56
Net Cost $	376.69
(Reg# R100938885) GST $	26.37
TOTAL PAYABLE (CDN) $	403.06

Duplicate Au checks

Chemex Labs Ltd.

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PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

A9636906

Comments: ATTN:RICK DIMENT

CERTIFICATE A9636906

(LDS) - VICEROY RESOURCES CORPORATION

Project: BREWERY CK. DD96-92
P.O. # : 10573

Samples submitted to our lab in Vancouver, BC.
This report was printed on 22-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	41	Geochem ring entire sample

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	41	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-92
Comments: ATTN:RICK DIMENT

Page Number :1
Total Pages :2
Certificate Date: 22-OCT-96
Invoice No. :19636906
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636906

SAMPLE	PREP CODE	Au ppb FA+AA
60.0-61.8	217 --	< 5
61.8-62.8	217 --	< 5
62.8-64.7	217 --	370
64.7-65.5	217 --	70
65.5-67.5	217 --	860
67.5-69.5	217 --	285
69.5-71.5	217 --	110
71.5-73.5	217 --	245
73.5-74.5	217 --	135
74.5-75.8	217 --	< 5
75.8-76.2	217 --	290
76.2-77.8	217 --	830
77.8-78.8	217 --	65
78.8-80.0	217 --	1590
80.0-82.0	217 --	2470
82.0-83.9	217 --	135
83.9-84.9	217 --	280
84.9-86.9	217 --	170
86.9-88.9	217 --	190
88.9-90.9	217 --	860
90.9-92.7	217 --	365
92.7-94.7	217 --	155
94.7-96.8	217 --	5230
96.8-98.2	217 --	80
98.2-100.2	217 --	70
100.2-102.2	217 --	20
102.2-104.2	217 --	145
104.2-106.2	217 --	590
106.2-108.2	217 --	190
108.2-109.2	217 --	15
109.2-110.4	217 --	635
110.4-112.5	217 --	2830
112.5-114.5	217 --	2630
114.5-115.5	217 --	520
115.5-116.8	217 --	1950
116.8-118.8	217 --	2420
118.8-120.4	217 --	3590
120.4-121.9	217 --	275
121.9-123.4	217 --	65
123.4-125.4	217 --	< 5

CERTIFICATION:

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-92
Comments: ATTN:RICK DIMENT

Certificate Date: 22-OCT-96
Invoice No. : I9636906
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9636906

SAMPLE	PREP CODE		Au ppb FA+AA
125.4-126.6	217	--	< 5

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-92
Comments: ATTN:RICK DIMENT

Page Number :1
Total Pages :2
Certificate Date: 22-OCT-96
Invoice No. :I9636906
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636906

SAMPLE	PREP CODE	Au ppb FA+AA
60.0-61.8	217 --	< 5
61.8-62.8	217 --	< 5
62.8-64.7	217 --	370
64.7-65.5	217 --	70
65.5-67.5	217 --	860
67.5-69.5	217 --	285
69.5-71.5	217 --	110
71.5-73.5	217 --	245
73.5-74.5	217 --	135
74.5-75.8	217 --	< 5
75.8-76.2	217 --	290
76.2-77.8	217 --	830
77.8-78.8	217 --	65
78.8-80.0	217 --	1590
80.0-82.0	217 --	2470
82.0-83.9	217 --	135
83.9-84.9	217 --	280
84.9-86.9	217 --	170
86.9-88.9	217 --	190
88.9-90.9	217 --	860
90.9-92.7	217 --	365
92.7-94.7	217 --	155
94.7-96.8	217 --	5230
96.8-98.2	217 --	80
98.2-100.2	217 --	70
100.2-102.2	217 --	20
102.2-104.2	217 --	145
104.2-106.2	217 --	590
106.2-108.2	217 --	190
108.2-109.2	217 --	15
109.2-110.4	217 --	635
110.4-112.5	217 --	2830
112.5-114.5	217 --	2630
114.5-115.5	217 --	520
115.5-116.8	217 --	1950
116.8-118.8	217 --	2420
118.8-120.4	217 --	3590
120.4-121.9	217 --	275
121.9-123.4	217 --	65
123.4-125.4	217 --	< 5

CERTIFICATION:

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-92
Comments: ATTN:RICK DIMENT

Page Number :2
Total Pages :2
Certificate Date: 22-OCT-96
Invoice No. :I9636906
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636906

SAMPLE	PREP CODE		Au ppb FA+AA
125.4-126.6	217	--	< 5

CERTIFICATION: Mark Vinh

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PHONE: 604-984-0221

To: VICEROY RESOURCES CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

INVOICE NUMBER I9636317

BILLING INFORMATION

Date: 21-OCT-96
Project: BREWERY CK. DD96-93
P.O. No.: 10573
Account: LDS

Comments: ATTN:RICK DIMENT

Billing: For analysis performed on
Certificate A9636317

Terms: Payment due on receipt of invoice
1.25% per month (15% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	DD96-93	UNIT PRICE	SAMPLE PRICE	AMOUNT
46	217 - Geochem ring entire sample		2.50		
	983 - Au ppb	FA+AA	9.75	12.25	563.50

Total Cost	$	563.50
Client Discount (25%)	$	-140.88
Net Cost	$	422.62
(Reg# R100938885) GST	$	29.58
TOTAL PAYABLE (CDN)	$	452.20

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

A9636317

Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

CERTIFICATE A9636317

(LDS) - VICEROY RESOURCES CORPORATION

Project: BREWERY CK. DD96-93
P.O. # : 10573

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	46	Geochem ring entire sample

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-93
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page ,ber :1
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :19636317
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636317

SAMPLE	PREP CODE	Au ppb FA+AA
1.5-2.8	217 --	< 5
2.8-4.8	217 --	< 5
4.8-6.8	217 --	< 5
6.8-8.8	217 --	< 5
8.8-10.8	217 --	< 5
10.8-12.8	217 --	< 5
12.8-14.8	217 --	< 5
14.8-16.8	217 --	< 5
16.8-18.8	217 --	< 5
18.8-20.8	217 --	< 5
20.8-22.8	217 --	< 5
22.8-24.8	217 --	< 5
24.8-25.8	217 --	< 5
25.8-27.8	217 --	< 5
27.8-29.6	217 --	< 5
29.6-31.6	217 --	< 5
31.6-33.6	217 --	< 5
33.6-35.7	217 --	< 5
35.7-37.7	217 --	< 5
37.7-39.7	217 --	< 5
39.7-41.7	217 --	< 5
41.7-43.7	217 --	< 5
43.7-45.7	217 --	< 5
45.7-47.2	217 --	< 5
47.2-47.9	217 --	< 5
47.9-49.9	217 --	< 5
49.9-51.9	217 --	< 5
51.9-53.9	217 --	< 5
53.9-55.9	217 --	< 5
55.9-57.2	217 --	< 5
57.2-59.2	217 --	< 5
59.2-60.8	217 --	70
60.8-62.8	217 --	1380
62.8-64.8	217 --	330
64.8-66.8	217 --	750
66.8-68.8	217 --	5660
68.8-70.8	217 --	2050
70.8-72.8	217 --	1170
72.8-74.8	217 --	2390
74.8-76.8	217 --	25

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-93
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number :2
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :19636317
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636317

SAMPLE	PREP CODE	Au ppb FA+AA
76.8-77.6	217 --	210
77.6-79.6	217 --	435
79.6-81.6	217 --	30
81.6-83.6	217 --	20
83.6-85.6	217 --	10
85.6-86.9	217 --	< 5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-93
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number :1
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :I9636317
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636317

SAMPLE	PREP CODE	Au ppb FA+AA
1.5-2.8	217 --	< 5
2.8-4.8	217 --	< 5
4.8-6.8	217 --	< 5
6.8-8.8	217 --	< 5
8.8-10.8	217 --	< 5
10.8-12.8	217 --	< 5
12.8-14.8	217 --	< 5
14.8-16.8	217 --	< 5
16.8-18.8	217 --	< 5
18.8-20.8	217 --	< 5
20.8-22.8	217 --	< 5
22.8-24.8	217 --	< 5
24.8-25.8	217 --	< 5
25.8-27.8	217 --	< 5
27.8-29.6	217 --	< 5
29.6-31.6	217 --	< 5
31.6-33.6	217 --	< 5
33.6-35.7	217 --	< 5
35.7-37.7	217 --	< 5
37.7-39.7	217 --	< 5
39.7-41.7	217 --	< 5
41.7-43.7	217 --	< 5
43.7-45.7	217 --	< 5
45.7-47.2	217 --	< 5
47.2-47.9	217 --	< 5
47.9-49.9	217 --	< 5
49.9-51.9	217 --	< 5
51.9-53.9	217 --	< 5
53.9-55.9	217 --	< 5
55.9-57.2	217 --	< 5
57.2-59.2	217 --	< 5
59.2-60.8	217 --	70
60.8-62.8	217 --	1380
62.8-64.8	217 --	330
64.8-66.8	217 --	750
66.8-68.8	217 --	5660
68.8-70.8	217 --	2050
70.8-72.8	217 --	1170
72.8-74.8	217 --	2390
74.8-76.8	217 --	25

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Page Number :2
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :19636317
P.O. Number :10573
Account :LDS

Project : BREWERY CK. DD96-93
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

CERTIFICATE OF ANALYSIS A9636317

SAMPLE	PREP CODE	Au ppb FA+AA
76.8-77.6	217 --	210
77.6-79.6	217 --	435
79.6-81.6	217 --	30
81.6-83.6	217 --	20
83.6-85.6	217 --	10
85.6-86.9	217 --	< 5

CERTIFICATION: Mark Vosh

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: VICEROY RESOURCES CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

INVOICE NUMBER I9636318

BILLING INFORMATION

Date: 21-OCT-96
Project: BREWERY CK. DD96-94
P.O. No.: 10573
Account: LDS

Comments: ATTN:RICK DIMENT

Billing: For analysis performed on Certificate A9636318

Terms: Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J 2C1

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	DD96-94	UNIT PRICE	SAMPLE PRICE	AMOUNT
46	217 - Geochem ring entire sample		2.50		
	983 - Au ppb FA+AA		9.75	12.25	563.50

Total Cost	$	563.50
Client Discount (25%)	$	-140.88
Net Cost	$	422.62
(Reg# R100938885) GST	$	29.58
TOTAL PAYABLE (CDN)	**$**	**452.20**

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

A9636318

Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

CERTIFICATE A9636318

(LDS) - VICEROY RESOURCES CORPORATION

Project: BREWERY CK. DD96-94
P.O. # : 10573

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	46	Geochem ring entire sample

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	46	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-94
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number :1
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :I9636318
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636318

SAMPLE	PREP CODE	Au ppb FA+AA
1.8-3.8	217 --	15
3.8-5.8	217 --	< 5
5.8-7.8	217 --	< 5
7.8-9.8	217 --	< 5
9.8-11.8	217 --	< 5
11.8-13.8	217 --	< 5
13.8-15.8	217 --	< 5
15.8-17.8	217 --	< 5
17.8-19.8	217 --	< 5
19.8-21.8	217 --	< 5
21.8-23.3	217 --	20
23.3-25.3	217 --	100
25.3-26.6	217 --	10
26.6-28.0	217 --	20
28.0-29.0	217 --	< 5
29.0-30.9	217 --	2500
30.9-32.3	217 --	6090
32.3-33.9	217 --	1350
33.9-35.4	217 --	2870
35.4-37.4	217 --	270
37.4-39.4	217 --	400
39.4-41.4	217 --	280
41.4-43.4	217 --	215
43.4-44.4	217 --	270
44.4-46.4	217 --	690
46.4-47.4	217 --	1640
47.4-49.4	217 --	235
49.7-51.4	217 --	380
51.4-53.4	217 --	940
53.4-55.4	217 --	1860
55.4-57.4	217 --	1740
57.4-59.4	217 --	2780
59.4-61.4	217 --	2860
61.4-63.4	217 --	730
63.4-65.0	217 --	345
65.0-67.0	217 --	1750
67.0-68.7	217 --	70
68.7-70.0	217 --	250
70.0-71.5	217 --	180
71.5-73.2	217 --	20

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-94
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page ber :2
Total Pages :2
Certificate Date: 19-OCT-96
Invoice No. :19636318
P.O. Number :10573
Account :LDS

CERTIFICATE OF ANALYSIS A9636318

SAMPLE	PREP CODE	Au ppb FA+AA
73.2-75.2	217 --	< 5
75.2-77.2	217 --	< 5
77.2-79.2	217 --	< 5
79.2-81.2	217 --	< 5
81.2-83.0	217 --	< 5
83.0-84.1	217 --	< 5

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-94
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number 1
Total Pages 2
Certificate Date 19-OCT-96
Invoice No. I9636318
P.O. Number 10573
Account LDS

CERTIFICATE OF ANALYSIS A9636318

SAMPLE	PREP CODE	Au ppb FA+AA
1.8-3.8	217 --	15
3.8-5.8	217 --	< 5
5.8-7.8	217 --	< 5
7.8-9.8	217 --	< 5
9.8-11.8	217 --	< 5
11.8-13.8	217 --	< 5
13.8-15.8	217 --	< 5
15.8-17.8	217 --	< 5
17.8-19.8	217 --	< 5
19.8-21.8	217 --	< 5
21.8-23.3	217 --	20
23.3-25.3	217 --	100
25.3-26.6	217 --	10
26.6-28.0	217 --	20
28.0-29.0	217 --	< 5
29.0-30.9	217 --	2500
30.9-32.3	217 --	6090
32.3-33.9	217 --	1350
33.9-35.4	217 --	2870
35.4-37.4	217 --	270
37.4-39.4	217 --	400
39.4-41.4	217 --	280
41.4-43.4	217 --	215
43.4-44.4	217 --	270
44.4-46.4	217 --	690
46.4-47.4	217 --	1640
47.4-49.4	217 --	235
49.7-51.4	217 --	380
51.4-53.4	217 --	940
53.4-55.4	217 --	1860
55.4-57.4	217 --	1740
57.4-59.4	217 --	2780
59.4-61.4	217 --	2860
61.4-63.4	217 --	730
63.4-65.0	217 --	345
65.0-67.0	217 --	1750
67.0-68.7	217 --	70
68.7-70.0	217 --	250
70.0-71.5	217 --	180
71.5-73.2	217 --	20

CERTIFICATION: Mark Vosh

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To: VICEROY RESOURCE CORPORATION
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BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK. DD96-94
Comments: ATTN:RICK DIMENT CC:JOHN ZBEETNOFF

Page Number : 2
Total Pages : 2
Certificate Date: 19-OCT-96
Invoice No. : I9636318
P.O. Number : 10573
Account : LDS

CERTIFICATE OF ANALYSIS A9636318

SAMPLE	PREP CODE	Au ppb FA+AA
73.2-75.2	217 --	< 5
75.2-77.2	217 --	< 5
77.2-79.2	217 --	< 5
79.2-81.2	217 --	< 5
81.2-83.0	217 --	< 5
83.0-84.1	217 --	< 5

CERTIFICATION:

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK DD96-102
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number 1
Total Pages 2
Certificate Date 23-OCT-96
Invoice No. I-9637277
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9637277

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
1.8-3.4	217 --	45
3.4-4.4	217 --	695
4.4-6.4	217 --	140
6.4-8.4	217 --	145
8.4-9.4	217 --	10
9.4-11.0	217 --	< 5
11.0-12.1	217 --	325
12.1-13.6	217 --	10
13.6-15.6	217 --	30
15.6-17.6	217 --	90
17.6-19.6	217 --	55
19.6-21.6	217 --	10
21.6-23.6	217 --	< 5
23.6-24.6	217 --	< 5
24.6-26.6	217 --	< 5
26.6-27.6	217 --	< 5
27.6-28.6	217 --	< 5
28.6-30.6	217 --	< 5
30.6-32.2	217 --	85
32.2-33.2	217 --	185
33.2-35.2	217 --	< 5
35.2-37.2	217 --	740
37.2-39.2	217 --	1010
39.2-40.6	217 --	110
40.6-41.7	217 --	2470
41.7-43.7	217 --	205
43.7-45.7	217 --	320
45.7-46.7	217 --	80
46.7-48.4	217 --	355
48.4-50.4	217 --	805
50.4-52.1	217 --	500
52.1-53.8	217 --	2750
53.8-55.3	217 --	15
55.3-57.3	217 --	105
57.3-59.3	217 --	200
59.3-61.3	217 --	175
61.3-63.3	217 --	780
63.3-65.3	217 --	5540
65.3-67.3	217 --	4860
67.3-68.7	217 --	3350

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BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK DD96-102
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number 2
Total Pages 2
Certificate Date 23-OCT-96
Invoice No. I-9637277
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9637277

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
68.7-70.0	217 --	4040
70.0-71.0	217 --	3060
71.0-73.0	217 --	295
73.0-75.0	217 --	40
75.0-76.9	217 --	145
76.9-78.1	217 --	550
78.1-79.8	217 --	35
79.8-80.8	217 --	145
80.8-81.8	217 --	345
81.8-83.1	217 --	510
83.1-83.8	217 --	15
83.8-85.5	217 --	40
85.5-87.5	217 --	115
87.5-89.5	217 --	10
89.5-91.0	217 --	< 5
91.0-93.0	217 --	< 5
93.0-95.0	217 --	< 5
95.0-96.0	217 --	< 5

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : BREWERY CK DD96-103
Comments: ATTN: RICK DIMENT CC: JOHN ZBEETNOFF

Page Number 1
Total Pages 1
Certificate Date 23-OCT-96
Invoice No. I-9637278
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9637278

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
1.8-3.8	217 --	< 5
3.8-5.8	217 --	< 5
5.8-7.8	217 --	< 5
7.8-9.8	217 --	< 5
9.8-11.8	217 --	< 5
11.8-13.8	217 --	< 5
13.8-15.8	217 --	< 5
15.8-16.8	217 --	< 5
16.8-18.8	217 --	< 5
18.8-20.8	217 --	< 5
20.8-22.8	217 --	< 5
22.8-24.5	217 --	< 5
24.5-25.8	217 --	< 5
25.8-27.8	217 --	< 5
27.8-29.8	217 --	< 5
29.8-30.8	217 --	< 5

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : DD96-104
Comments: ATTN: R. DIMENT CC: J. ZBEETNOFF

Page Number 1
Total Pages 2
Certificate Date 30-OCT-96
Invoice No. I-9638039
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9638039

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
1.5-2.5	217 --	325
2.5-4.5	217 --	20
4.5-6.5	217 --	35
6.5-7.9	217 --	45
7.9-9.2	217 --	1190
9.2-10.2	217 --	1200
10.2-12.2	217 --	185
12.2-14.2	217 --	25
14.2-16.2	217 --	10
16.2-18.2	217 --	5
18.2-20.2	217 --	< 5
20.2-22.2	217 --	< 5
22.2-24.2	217 --	< 5
24.2-26.2	217 --	< 5
26.2-28.2	217 --	< 5
28.2-30.2	217 --	< 5
30.2-32.2	217 --	60
32.2-34.2	217 --	< 5
34.2-36.2	217 --	< 5
36.2-38.2	217 --	< 5
38.2-40.2	217 --	< 5
40.2-42.2	217 --	< 5
42.2-44.2	217 --	< 5
44.2-45.7	217 --	< 5
45.7-47.6	217 --	< 5
47.6-48.9	217 --	< 5
48.9-50.9	217 --	< 5
50.9-52.9	217 --	< 5
52.9-54.9	217 --	< 5
54.9-56.9	217 --	< 5
56.9-58.0	217 --	< 5
58.0-59.0	217 --	< 5
59.0-60.4	217 --	< 5
60.4-62.4	217 --	< 5
62.4-64.5	217 --	< 5
64.5-65.6	217 --	15
65.6-67.6	217 --	10
67.6-68.6	217 --	30
68.6-69.4	217 --	1010
69.4-70.4	217 --	15

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : DD96-104
Comments: ATTN: R. DIMENT CC: J. ZBEETNOFF

Page Number 2
Total Pages 2
Certificate Date 30-OCT-96
Invoice No. I-9638039
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9638039

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
70.4-72.4	217 --	< 5
72.4-74.4	217 --	< 5
74.4-76.4	217 --	< 5
76.4-78.1	217 --	40
78.1-79.1	217 --	10
79.1-80.9	217 --	< 5
80.9-82.9	217 --	60
82.9-84.9	217 --	90
84.9-86.6	217 --	60

CERTIFICATION _____

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To: VICEROY RESOURCE CORPORATION
BREWERY CREEK OPERATIONS
BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : DD98-105
Comments: ATTN: R. DIMENT CC: J. ZBEETNOFF

Page Number 1
Total Pages 2
Certificate Date 31-OCT-98
Invoice No. I-9838040
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9638040

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
1.5-3.5	217 --	1010
3.5-5.4	217 --	965
5.4-6.4	217 --	< 5
6.4-8.4	217 --	10
8.4-10.4	217 --	20
10.4-12.4	217 --	1280
12.4-14.0	217 --	165
14.0-16.0	217 --	< 5
16.0-17.1	217 --	< 5
17.1-20.1	-- --	NotRcd
20.1-20.7	217 --	15
20.7-22.0	217 --	< 5
22.0-24.0	217 --	10
24.0-26.0	217 --	5
26.0-27.9	217 --	10
27.9-29.4	217 --	< 5
29.4-31.4	217 --	35
31.4-33.4	217 --	5
33.4-35.4	217 --	< 5
35.4-37.4	217 --	65
37.4-39.4	217 --	310
39.4-41.4	217 --	95
41.4-42.4	217 --	85
42.4-43.4	217 --	345
43.4-44.8	217 --	140
44.8-46.8	217 --	45
46.8-48.2	217 --	< 5
48.2-50.2	217 --	< 5
50.2-52.2	217 --	< 5
52.2-53.4	217 --	< 5
53.4-55.3	217 --	< 5
55.3-56.6	217 --	85
56.6-57.6	217 --	20
57.6-58.9	217 --	< 5
58.9-60.9	217 --	< 5
60.9-62.9	217 --	< 5
62.9-64.9	217 --	< 5
64.9-65.9	217 --	< 5
65.9-67.9	217 --	< 5
67.9-69.9	217 --	< 5

CERTIFICATION:

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BAG 5040
DAWSON CITY, YT
Y0B 1G0

Project : DD96-105
Comments: ATTN: R. DIMENT CC: J. ZBEETNOFF

Certificate Date 31-OCT-96
Invoice No. I-9638040
P.O. Number 10573
Account :

CERTIFICATE OF ANALYSIS A9638040

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA
69.9-71.9	217 --	< 5
71.9-73.9	217 --	< 5
73.9-75.5	217 --	< 5
75.5-76.6	217 --	< 5
76.6-78.6	217 --	< 5
78.6-80.6	217 --	< 5
80.6-82.0	217 --	< 5
82.0-83.6	217 --	< 5
83.6-85.4	217 --	< 5
85.4-86.6	217 --	< 5
86.6-88.6	217 --	< 5
88.6-90.6	217 --	10
90.6-92.6	217 --	< 5
92.6-94.6	217 --	< 5
94.6-96.6	217 --	< 5
96.6-98.6	217 --	< 5
98.6-100.6	217 --	< 5
100.6-102.6	217 --	< 5
102.6-103.8	217 --	< 5
103.8-104.8	217 --	155
104.8-106.8	217 --	115
106.8-108.8	217 --	25
108.8-110.8	217 --	5
110.8-112.8	217 --	< 5
112.8-114.6	217 --	< 5
114.6-115.7	217 --	85
115.7-117.7	217 --	25
117.7-119.8	217 --	10
119.8-121.9	217 --	< 5
121.9-123.7	217 --	130
123.7-124.7	217 --	25
124.7-126.7	217 --	< 5
126.7-128.6	217 --	< 5
128.6-130.6	217 --	35
130.6-132.6	217 --	< 5
132.6-134.4	217 --	80
134.4-135.4	217 --	45
135.4-137.4	217 --	75
137.4-139.4	217 --	10
139.4-141.1	217 --	40

CERTIFICATION: _____

VICEROY **BREWERY CREEK MINE**

FINAL ASSAY REPORT SHEET

SAMPLE SERIES D096 - (106) DATE NOV 18/96

	SAMPLE #	Au g/t
1	20 - 22	0.05
2	22 - 24	0.04
3	24 - 26	0.05
4	26 - 27.7	~ 5.
5	27.7 - 29.7	0.04
6	29.7 - 31.7	0.03
7	31.7 - 33.7	0.02
8	33.7 - 35.7	0.02
9	35.7 - 37.7	0.02
10	37.7 - 39.7	0.02
11	39.7 - 41.7	0.02
12	41.7 - 43.7	<0.02
13	43.7 - 45.7	<0.02
14	45.7 - 47.7	0.02
15	47.7 - 49.7	0.02
16	49.7 - 51.7	<0.02
17	51.7 - 53.7	<0.02
18	53.7 - 55.7	<0.02
19	55.7 - 57.5	0.31
20	57.5 - 59.5	0.61
21	59.5 - 61.5	1.77
22	61.5 - 63.5	2.04

	SAMPLE #	Au g/t
23	63.5 - 65.5	2.09
24	65.5 - 67.5	2.90
25	67.5 - 69.5	1.46
26	69.5 - 70.6	1.61
27	70.6 - 71.7	0.11
28	71.7 - 73.7	0.05
29	73.7 - 75.0	0.02
30	75.0 - 76.0	0.02
31	76.0 - 78.0	<0.02
32	78.0 - 79.0	0.05
33	79.0 - 80.9	0.04
34	80.9 - 82.4	0.04
35	82.4 - 84.4	0.02
36	84.4 - 86.4	0.02
37	86.4 - 88.4	0.02
38	88.4 - 90.4	0.02
39	90.4 - 92.4	0.03
40	92.4 - 94.4	<0.02
41	94.4 - 95.8	<0.02
42	95.8 - 96.2	<0.02
43	96.2 - 98.4	<0.02
44	98.4 - 100.4	<0.02

SUPERVISOR

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES D096 - 106

DATE NOV 10/96

	SAMPLE #	Au g/t
1	100.4 – 102.4	0.02
2	102.4 – 104.2	0.02
3	104.2 – 104.7	<0.02
4	104.7 – 106.9	<0.02
5	106.9 – 107.3	<0.02
6	107.3 – 108.5	<0.02
7	108.5 – 108.7	<0.02
8	108.7 – 110.4	<0.02
9	110.4 – 112.4	<0.02
10	112.4 – 113.6	<0.02
11	113.6 – 114.9	<0.02
12	114.9 – 116.2	<0.02
13	116.2 – 117.7	<0.02
14	117.7 – 119.2	<0.02
15	119.2 – 120.5	<0.02
16	120.5 – 121.2	<0.02
17	121.2 – 122.9	<0.02
18	122.9 – 124.9	<0.02
19	124.9 – 126.9	0.04
20	126.9 – 128.9	0.05
21	128.9 – 130.9	0.04
22	130.9 – 132.9	<0.02

	SAMPLE #	Au g/t
23	132.9 – 134.7	0.02
24	134.7 – 135.2	<0.02
25	135.2 – 135.9	<0.02
26	135.9 – 137.5	<0.02
27	137.5 – 137.8	<0.02
28	EOH	
29		
30		
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42		
43		
44		

SUPERVISOR

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES DD96-107

DATE NOV 10/96

	SAMPLE #	Au g/t
1	21 - 23	<0.02
2	23 - 25	<0.02
3	25 - 27	<0.02
4	27 - 29	0.12
5	29 - 31	0.09
6	31 - 33	0.09
7	33 - 35	0.06
8	35 - 37	0.05
9	37 - 39	0.04
10	39 - 41	0.03
11	41 - 43	0.02
12	43 - 45	<0.02
13	45 - 47	<0.02
14	47 - 49	<0.02
15	49 - 51	<0.02
16	51 - 53	<0.02
17	53 - 53.7	<0.02
18	53.7 - 55.7	<0.02
19	55.7 - 57.7	<0.02
20	57.7 - 59.7	<0.02
21	59.7 - 61.7	<0.02
22	61.7 - 63.7	<0.02

	SAMPLE #	Au g/t
23	63.7 - 65.7	<0.02
24	65.7 - 67	<0.02
25	67 - 67.7	<0.02
26	67.7 - 69.7	<0.02
27	69.7 - 71.7	<0.02
28	71.7 - 73.7	<0.02
29	73.7 - 75.2	<0.02
30	75.2 - 77.2	<0.02
31	77.2 - 79.2	<0.02
32	79.2 - 80.2	<0.02
33	80.2 - 82.2	<0.02
34	82.2 - 84.2	<0.02
35	84.2 - 86.2	<0.02
36	86.2 - 88.2	<0.02
37	88.2 - 90.2	<0.02
38	90.2 - 92.2	<0.02
39	92.2 - 94.2	<0.02
40	94.2 - 96.2	<0.02
41	96.2 - 98.2	<0.02
42	98.2 - 100.2	<0.02
43	100.2 - 102.2	<0.02
44	102.2 - 104.2	<0.02

SUPERVISOR

VICEROY BREWERY CREEK MINE

FINAL ASSAY REPORT SHEET

SAMPLE SERIES 0096 - 107

DATE NOV 10/96

	SAMPLE #	Au g/t
1	104.2 - 106.2	<0.02
2	106.2 - 107.4	<0.02
3	107.4 - 108.5	<0.02
4	108.5 - 110.5	<0.02
5	110.5 - 111.8	<0.02
6	111.8 - 113.7	0.12
7	113.7 - 115.4	1.74
8	115.4 - 117.4	2.10
9	117.4 - 118.3	3.17
10	118.3 - 120.3	0.34
11	120.3 - 121.1	0.12
12	121.1 - 122.6	0.21
13	122.6 - 124.6	<0.02
14	124.6 - 126.6	<0.02
15	126.6 - 128.6	<0.02
16	128.6 - 130.6	<0.02
17	130.6 - 132.6	<0.02
18	132.6 - 134.6	<0.02
19	134.6 - 135.9	<0.02
20	135.9 - 137.1	<0.02
21	137.1 - 138.2	<0.02
22	138.2 - 139.6	<0.02

	SAMPLE #	Au g/t
23	139.6 - 141.2	<0.02
24	141.2 - 143.1	<0.02
25	143.1 - 145.1	<0.02
26	145.1 - 147.1	<0.02
27	147.1 - 149.1	<0.02
28	149.1 - 151.1	<0.02
29	151.1 - 153.1	<0.02
30	153.1 - 154.7	<0.02
31	154.7 - 155.3	<0.02
32	155.3 - 156.5	<0.02
33	EOH	
34		
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44		

SUPERVISOR

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093601
pt 4 of 4

1997 Rotary Core and Diamond Drill Hole Logs

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96-1565

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	9	ARGG	Tr Lim, mod SK, S2, C0 -SK
9	11	SLT	2% Lim, S1, C1, P2, tr Py SK
11	17	ARGG	S2, C0 SK
17	20	SLT	Lim 1%, 1% Py, C3, S1, P2 SK
20	22	ARGG	tr Lim, C0, S2 SK
22	25	LQM	5% Lim, 1% Py, C3, S0, B1-2, P2
25	28	ARG	tr Lim, C1 S3 SK
28	32	LQM	2% Lim, C3, S0, B1
32	46	LAQM	2-3% Lim, C3, S1, B3, Py 1-5%,
46	48	ARGG	C0 S3 SK
48	52	LAQM	3% Lim, C2, S1, B3, Py 4%, P2 SK
			70:30 ARGG
52	56	LAQM	2% Lim, C1, S3, B3, 2% Py SK.
56	60	LAQM:	60:40 ARGG, 5% Py, C2, S2, B3, P2, 5% Lim, SK (LAQM)
			C0, S2 (ARGG)
60	80	ARGG	C1-C2, S1-S2 ARGG

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1565

Logged by: C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	9	ARGG	ARGG – tr Lim, SK, S2, CO , Casing: 0-4m
			Weak fol – massive argillite, weakly graphitic
			increasing quartz stockwork with depth, to 0.3cm
			trace weakly oxidized pyrite near surface
			weakly fractured : 8-10m: 60:40 SCT
			(0-2m somewhat mixed, surface contamination?
9	11	SLT	SLT, 2% Lim, S, C, P2(?), tr Py
			Tan weathered, finely lam. siltstone, locally
			strong limonite alt, weakly calcareous. Trace
			mod. oxidized pyrite. ? 10-12m: 60:40 SCT
11	17	ARGG	ARGG, S2, CO 50:50 ARGG
			Mod quartz stockwork in weakly graphitic
			argillite, silicification slightly more pervasive
			with depth - finer stockwork, no carb alter.
17	20	SLT	Lim 1%, S, C3 P2, tr Py
		(SST?)	Siltstone, fine grained, weakly laminated,
			weakly Fractured, Limonite fracture controlled
			with weak pervasive oxidation, fine grained
			Fract. controlled pyrite, mod. oxidized (?) weak
			quartz stockwork (STEELE FORM?)
20	22	ARGG	tr Lim, CO, S2
			Moderate quartz stockwork in graphitic
			~~limonite~~ argillite, weak fracture controlled limonite
22	25	LQM	5% Lim 1% Py, P2, C3, SO, B1-B2 24-26m: 50:50
			Moderately argillically altered q-monzonite,
			biotite ranges from B1-B2, pervasive limonite,
			minor weakly oxidized pyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1565

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
25	28	ARLr	tr Lim, C_1, S_3
			Strong quartz stockwork, mod. carb alteration
			along fractures, weak fract. controlled limonite
28	32	LQM	2% Lim, C_3, S_0, B_1
			Moderately limonitic quartz biotite quartz
			monzonite, mod. hornblende, strong pervasive
			carbonate alteration, limonite pervasive
32	~~36~~	LAQM	3% Lim, P_2, S_1, B_3, C_3, 2% Py
	46		Similar to LQM, biotite ~~mostly destroyed~~
			almost fully altered, pseudomorphs remain
			1–2% Pyrite, moderately oxidized, limonite
			pervasive, enhanced along fractures, weak
			pervasive silicification. Local AQM.
			- 40% argg in 36→38±, S_2, 30% Arg. in
			40-42 m interval.
			Pyrite less oxidized, more abundant (to 5%)
			with depth - biotite somewhat less altered.
46	48	ARGG	C_0, S_3 (SK)
			Strong silica stockworks, weak-mod gumphidic
			argillite
48	52	LAQM+	3% Lim, P_2, C_2, S_1, B_3 (intrusive) 70/30 ARGG
			Mixed LAQM + strongly quartz stockworked
			argillite - increased argillite with depth
			(Xenoliths?). Mod carbonate alt. in intrusive
			4-5% weak-mod. altered pyrite, weakly
			pervasive silica alteration. Limonite pervasive
			but enhanced along fractures, minor
			SK also.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1565

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
52	56	LAQM	Lim 2%, P1, C1, S3 B3, 2% Py
			Weak limonitic alt. qz monzonite, mod-strong silica stockwork. Pyrite fract. controlled weakly disseminated, limonite pervasive, ~~strongly~~ slight increase along fractures
			weak carbonate, strong alt. of biotite
			~2% Pyrite
			WATER AT 55.2m
56	60	LAQM:	60% ARGG; 5% Lim P3; 5% Py, C2, S2, B3 SK (LAQM)
			C0, S2 (ARGG)
			Mixed intrusive + argillite, intrusive similar to that from 52-56m - stronger limonite stain, fract. controlled, lesser ~~diss~~ pervasive limonite. ~5% Pyrite, fract. controlled less dissem. Pyrite. Weak-mod. silica stockwork.
			Argillite mod. graphitic, mod-weak silica stockwork
60	80	ARGG	C2 S1-2 SK
			Moderately, locally strongly graphitic fine grained argillite, weak silica stockwork.
			carbonate stockwork from 66-76m.
80		EOH	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1566

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	1.5	AQM	80:20 ARG, CO, S2, B3, tr Lim	SK
		(FILL)	ARG CO, S1	
1.5	7	AQM	CO, S2, B3, tr lim	SK
			Mod. argillically altered qz monzonite, trace	
			limonite, fracture controlled, trace weak oxid. Pyrite	
7	25	LAQM	3-5% Lim, tr-2% Py, CO, S1, B3, P3	SK
			Minor ARGG, 7-22m	SK
25	31	LQM	4% Lim, 5% Py, CO, S1, B1, P1	SK
31	34	LAQM	4% Lim, 5% Py, C3, S1, B2-3, P1	SK
34	38.5	ARG	C1 S3	SK
38.5	44	LAQM	5% Lim, 5-7% Py, C2, SO, B3, P2	
44.	46.5	ARG	tr Lim, CO, S2	SK
46.5	56.5	LAQM	5% Lim, 5-6% Py, C1, S2, B3, P1-2	SK
56.5	72	ARGG	C1, S1-2	SK

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1566

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			80:20 ARG
0	1.5	AQM	AQM, tr Lim, C0, S2, B3 SK FILL
			+ARG, C0, S1 FILL
1.5	7	AQM	tr Lim, C0, S2, B3 SK
7	25	LAQM	3-5% Lim, tr-2% Py, C0, S1, B3, P3 SK
			Moderately limonitic quartz monzonite, weak
			quartz stockwork, 1-2% dissem +fract controlled
			Pyrite (mod. oxidized), similar distribution of
			limonite. Mixed with ARGG (mod quartz
			stockwork) in varying amounts up to 40%
			7-12m: 35% ARGG
			12-14m: 25% ARGG
			14-16m: 10% ARGG
			18-22m: 40% ARGG
25	~~33.5~~	LAQM	4% Lim, =5% Py, C0, S1, B1, P1 SK
	31		Limonitic quartz monzonite, weak silica
			stockwork, fresh to weakly altered biotite,
			mod. hornblende (?) pervasive lim, weak fracture
			controlled limonite, dissem. pyrite.
31	34	LAQM	4% Lim, 5% Py, C3, S1, B2-3, P1 SK
			Similar to interval 25-31m, nearly complete
			destruction of mafic minerals
34	38.5	ARG	Moderate quartz stockwork, weak graphite
			alt, finely fractured, fine grained
38.5	44	LAQM	5% Lim, 5-7% Py, C2, S0, B3, P2
			Strongly limonitic quartz monzonite, faint
			biotite pseudomorphs remain, Mod. oxidized
			disseminated Pyrite, limonite pervasive, Mod
			carbonate alteration

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1566

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			40-42m: 75:25 LAQM: ARG
44	46.5	ARG	tr Lim, C0, S2
			Grey argillite, weakly foliated, moderate
			quartz stockwork, locally along foliation
			Limonite fracture controlled, trace Pyrite
46.5	56.5	LAQM	5% Lim, 5-6% Py, C1, S2, B2, P1-2 SK
			Mod - strong pervasive limonitic altered
			Q2 - monzonite, increasing carbonate, silica
			stockwork with depth. 5-7% Pyrite, dissem.
			+ fracture controlled - unoxidized Py at
			50-52 m interval - if stronger oxidation near
			stockwork zone along lower contact.
56.5	72	ARGG	C1, S1-2 SK
			Moderately graphitic argillite, weak to moder-
			ate quartz stockwork +/- minor carbonate veining
			Minor fracture controlled limonite from 62-66m
72		E.O.H	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1567

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	1.5	ARGG	Co, S_2	SK
1.5	3.0	AQM	tr Py, Co, S_3, B_3, P_1	SK
3.0	18	ARGG	Co, S_{1-2}	SK
18	20	LQM	2% Lim, Co, S_3, B_{1-2}	SK
20	26	ARG	tr Lim, Co, S_{2-4}	SK
26	32	LAQM:	60:40 ARGG, 5% Lim, 10% Py, C_1, S_1, B_{2-3}, P_2	SK (LAQM)
			Co, S_1	SK (ARGG)
32	38	ARGG	C_1, S_{2-3}	SK
38	40	LAQM	2% Lim, 10% Py, C_1, S_3, B_3, P_2	SK
40	42	ARG	C_2 S_2	SK
42	45	LAQM	4% Lim, 8% Py, Co, S_2, B_3, P_2	SK
45	52	ARGG	C_3 S_2	SK
52		EOH	END OF HOLE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1567

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	ARGG	Co, S2 SK
			weakly dargi graphitic argillite, moderate
			quartz stockwork, trace fracture controlled
			limonite
1.5	3.0	AQM	tr Py, Co, S3 B3, P1 SK
			Strong quartz stockwork in strongly altered
			quartz monzonite, tr-1% f. grained weakly
			oxidized Pyrite (disseminated), White to tan
3.0	18	ARGG	~~Mod~~ Co S1-2 SK
			Moderately graphitic argillite, semi-massive,
			varying quartz stockwork, increasing to lower
			contact
18	20	LQM	2% Lim, Co, S3, B1-2 SK
			Moderately pervasive limonite alteration, strong
			quartz stockwork, weakly altered biotite,
			weak argillic alteration
20	26	ARGG	tr Lim, Co, S2-4 SK
			Moderate quartz stockwork (strong near upper
			contact) in fine grained argillite, weak fracture
			+ vein controlled limonite + pyrite (P1)
26	32	LAQM	60:40 ARGG, C1, S1, 10% Py, B2-3, P2, 5% Lim SK (LAQM),
			Co, S1 SK (ARGG)
			Mixed limonitic mod-strongly altered quartz
			monzonite + weakly graphitic, quartz stockworked
			argillite. 10% Py across interval in LAQM,
			dissem. fine-medium grained; limonite pervasive
			weak quartz stockwork in qz-monzonite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1567

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
32	38	ARGG	C_1, S_{2-3} SK
			Weakly graphitic argillite, increasing silica
			+ minor carbonate stockwork towards lower
			contact. Minor fracture controlled limonite,
			minor LAQM from 34-36 m.
38	40	LAQM	2% Lim, 10% Py, C_1, S_3, B_3, P_2 SK
			Strong quartz stockwork in alt. qz monzonite,
			pervasive limonite, dissem. f. grained mod. oxidised
			Pyrite, weak carbonate alteration
40	42	ARGG	C_2, S_2 SK
			Moderately carbonate, silica stockwork in
			argillite, ≈ 15% LAQM fragments
42	45	LAQM	4% Lim, 8% Py, C_0, S_2, B_3, P_2 SK
			Moderate stockwork in ~~tin~~ pervasive limonite
			altered qz-monzonite, 8% fine grained mod.
			oxidized pyrite, disseminated + weakly fracture
			controlled.
45	52	ARGG	C_3, S_2 SK
			Moderate quartz + calcite stockwork in
			weakly graphitic argillite. Decreasing stockwork
			with depth
52		EOH	End of Hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC [illegible]568

Page 1 of 1

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SLT	Co, S1 SK
		[illegible]	
10	20	LAQM	5% Lim, 1% Py, C1, So, B2-3, P3
20	24.5	ARG	Co, S1
24.5	26	LAQM	5% Lim, 7% Py, Co, So, B3, P2
26	33.5	ARG	Co, S3, SK (~~Minimal coarse fraction~~)
33.5	39	LAQM	5% Lim, 6% Py, C1-2, S2, B3, P1-2 SK
39	43	ARG	C1, S2, tr Lim SK
43	44	LAQM	6% Lim, 8% Py, C2, S2, B3, P2 SK
44	80	ARG	C2-3, So-2 SK
80		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1568

Logged by: C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SLT	Co, S1 SK
		(ARG?)	Light-medium grey, finely laminated, finely grained siltstone (non-graphitic argillite?)
			Weak-moderate quartz stockwork, locally
			along lamination, poss. minor pervasive silicificat.
10	20	LAQM	5% Lim, 1% Py, C1, So, B2-3, P3
			Mod. limonitic quartz monzonite, strongly altered
			biotite, some remnant, part. altered hornblende(?)
			Minor silica stockwork + carbonate alteration
			near lower contact. Minor (1-2%) Pyrite, fracture
			controlled, strongly oxidized.
			Minor bleached siltstone from 12-14m
20	24.5	ARG	Co, S1
			Mod grey argillite, minor silica influx
			along fine laminations. Approx 30% of interval
			is light grey siltstone
24.5	26	LAQM	5% Lim, 7% Py, Co, So, B3, P2
			Strongly limonitic quartz monzonite, pervasive
			limonite, 7% mod. oxidized med. grained-f. grained
			Pyrite, disseminated + somewhat fracture
			controlled
26		ARG	Co, S3 SK
	33.5	(SLT?)	Med grey, strong quartz stockwork in f. grained
			argillite - Silty - . Minimal coarse fraction
			from 26-32m
33.5	39	LAQM	5% Lim, 6% Py, C2-1, S2 B3, P1-2 SK
			Mod-strong pervasive limonite, fine grained disseminated
			Pyrite in mod. quartz stockworked qz-monzonite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-1568

Logged by: C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			- somewhat increased limonite al. fractures
39	43	ARG (SLT?)	C_1, S_2, tr Lim. SK Med. grey, finely fractured argillite, + strong quartz stockwork. Weak fracture controlled carbonate + limonite. Colour indicative of siltstone, fabric argillaceous?
43	44	LAQM	$6^{\%}$ Lim, $B^{3\%}$ Py, C_2, S_2, B_3, P_2 SK Strongly limonitic, pervasive, B% f. grained, disseminated Pyrite, moderate quartz stockwork, carbonate alteration.
44	80	ARG	C_{2-3}, S_{0-2} SK Mod. graphitic argillite, variable weak - mod. quartz ± carbonate stockwork. Fract controlled carbonate alt. high from 44-62m, then decreases. Minor LAQM from 68-70m + minor Pyrite
80	EOH		

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1569

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	AQM	tr Lim, 1% Py, C_2, S_2, B_{2-3}, P_3 Bleached
1.5	4.	ARGG	Co, S_3 SK
4	7	AQM	tr Lim, tr Py, Co, S_3, B_3, P_3 SK
7	18.5	LAQM	6% Lim, 2-10% Py, Co, S_1, B_{2-3}, P_3 SK
18.5	24.5	ARGG	Co, S_3 SK
24.5	34.5	LAQM	5% Lim, 8% Py, Co / C_3, S_1, B_3, P_2 SK
34.5	50.0	ARGG	C_{3-2}, S_{2-1} SK
50.0		EOH	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1569

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	AQM	tr Lim, 1% Py, C_2, S_2 B_{2-3} bleached, P_2
			Bleached altered quartz monzonite (limonite
			removed?) mod. pervasive silicification, 1% strongly
			oxidized pyrite; biotite strongly altered, locally
			only weakly so.
1.5	4	ARGG	C_0, S_3 SK
			Strongly fractured, locally brecciated graphitic
			argillite, strong quartz stockwork.
4	7	AQM	tr Lim, tr Py, C_0, S_3, B_3, P_3 SK
			Bleached, strongly altered quartz monzonite,
			tr limonite, oxidized pyrite. Strong biotite alteration
			only pseudomorphs remain. Strong quartz stockwork,
			weak pervasive silicification
7	18.5	LAQM	6% Lim, 2-10% Py, C_0, S_1, B_{2-3}, P_3 SK
			Strong pervasive limonite altered quartz monzonite,
			variable amounts of dissem, weakly fracture controlled
			fine - med. grained pyrite, weak manganese
			stain. Biotite strongly, though locally weakly altered
			weak silica stockwork.
18.5	24.5	ARGG	C_0, S_3 SK
			Strong silica stockwork in weakly graphitic
			argillite, local grey fragments (siltstone?)
24.5	34.5	LAQM	5-9% Lim, 8% Py, C_0/C_3, S_1, B_2, P_2 SK
			Strong pervasive limonite alteration in quartz
			monzonite, 5-12% dissem + fract controlled fine -
			very fine grained pyrite, weak quartz stockwork.
			Increased Py, lim from 32-34.5m, minor mottled
			unoxidized material. Minor ARGG from 28-30m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1569

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
34.5	50.0	ARGG	C_{3-2} S_{2-1} SK
			Moderately graphitic argillite, mod quartz +
			carbonate stockwork, weak semi-pervasive carb alteration
			trace fracture controlled limonite. Decreased
			Qz stockwork, increased carbonate alteration
			with depth
50.0		EOH	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 157C

Page 1 of _____

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	7	ARGG	Co, S1 SK
7	8.5	LAQM	2% Lim, 2% Py, Co, SO, B2-3, P2
8.5	12	ARG	Co, SO
12	16	LAQM	2% Lim, 1% Py, Co, S2, B3, P2 SK
16	32	ARGG	Co, S1 SK
32	45	LAQM	4% Lim, 8% Py2, C2, S1, B3, P2 SK
45	54	ARGG	Co, S1, tr Lim SK
54		EOH	

NB. 2m. extension

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1570

Page 1 of _____

Logged by: Curt Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	8 7	ARGG	Co, S1 SK
			Weakly graphitic argillite, fine grained, weak quartz
			stockwork
7	8.5	LAQM	2% Lim, 2% Py, Co, So, B2-3, P2
			Weakly, variably limonite stained mod. altered
			quartz monzonite (indiv. grains are uniformly
			limonitic). 2% mod. oxidized fine grained
			disseminated pyrite. Biotite mod - strongly altered.
8.5	12	ARG	Co, So
			Fine grained, mod. foliated argillite, very weak
			quartz stockwork from 8.5-10m: minor chlor.
			alteration along fractures.
12	16	LAQM	2% Lim, 1% Py, Co, S2, B3, P2 SK
			Weak - mod limonitic alteration (preferential) in
			weakly foliated (?) quartz monzonite, mod
			quartz stockwork; 1% dissem. mod oxidized fgr.
			Pyrite, strong biotite alteration of biotites.
			Laminated appearance reminiscent of siltstone.
16	32	ARGG	Co, S1, SK
			Weak-moderately graphitic argillite, increasing
			graphite with depth. Weak silica stockwork, trace
			fracture controlled limonite. From 26-32m
32	45	LAQM	4% Lim, 8% Py, C2, S1, B3, P2 SK
			Mod. limonitic (preferential) altered. quartz monzonite.
			7-10% dissem. Py; weak fracture association,
			Fine grained. Strong alt. of biotite; minor remnant
			hornblende, weak quartz stockwork development
			@ Variable oxidation of Pyrite, local unoxidized grains

NB: 2 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1570

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
45	54	ARGG	tr Lim, Co, Si SIS
			weakly graphitic argillite, weakly foliated,
			weak silica stockwork. Trace fracture cont-
			rolled limonite near upper contact
54		EOH	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1571

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	1.5	LAQM	1% Lim, 3% Py, Co, S3, B3, P3	SK
1.5	5.0	ARG	Co, S2	SK
5.0	9.0	LAQM	4% Lim, 5% Py, Co, S1, B3, P3	SK
9.0	19	ARG	Co, S2	SK
19	20	LAQM	4% Lim, 4% Py, Co, S1, B2-3, P3	
20	26	LQM	2% Lim, tr Py, Co, So, P2	SK
26	34	LAQM	3% Lim, 3-8% Py, C3, S1, B3, P2	SK
34	50	ARG	Co, S1-2, tr Lim	SK
50	64	LAQM	3% Lim, 7% Py, C1, S1, B3 P1-2	SK
64	74	ARG	C3, S2	SK
74		EOH		

* End of excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1571

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	LAQM	1% Lim, 3% Py, Co, S_2, B_2, P_2 SK
			weakly limonitic, fracture related + weakly pervasive quartz monzonite. 3% strongly oxidized Pyrite, dissem + fracture controlled. Strongly quartz stockwork, possibly bleached.
1.5	5.0	ARG	Co, S_2 SK
			Moderate quartz stockwork in moderately fractured, locally laminated argillite.
5.0	9.0	LAQM	4% Lim, 5% Py, Co, S_1, B_2, P_2 SK
			Mod-strong pervasive + fracture controlled limonite in altered quartz monzonite. 5% strongly oxidized fine grained disseminated Pyrite. Weak fine quartz stockwork. Fine stockwork controlled pyrite
9.0	19	ARG	Co, S_2 SK
			Weakly graphitic argillite, weak quartz stockwork, trace limonite from 14-16m
19	20	LAQM	4% Lim, 4% Py, Co, S_1, B_2-3, P_2
			Mod limonitic (pervasive) quartz monzonite, 4% dissem Pyrite, f. grained, strongly oxidized.
			~~Pyrite~~ Biotite mod-strongly oxidized
20	26	LQM	2% Lim, tr Py, Co, Sc, B_1, P_2
			Pervasive, weakly limonitic quartz monzonite, ~20% weathered to weakly altered biotite,
			trace mod oxidized Pyrite
26	34	LAQM	3% Lim, 3-8% Py, Co, S_1, B_2, P_2
			Moderate pervasive limonite alteration, varying weak-mod. oxidized pyrite concentration, dissem

* 2 m. of examination

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1571

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			fine-medium grained, Strongly ~~oxi~~ altered biotite, mod-strong carbonate alteration, fairly pervasive, weak silica stockwork. Weakly altered biotite from 33-34 m 40% ARGG from 26-28 m.
34	50	ARGG	Co, S1-2, tr Lim SK Moderately graphitic, weakly foliated fine grained argillite. Trace fracture controlled limonite from 34-40m, weak to moderately developed quartz stockwork.
50	64	LAQM	3% Lim, 7% Py → C1, S1, B2, P1-2 SK Weakly-mod. limonitic quartz monzonite. Pervasive, varies across interval; 3-4% from 50-54 m, 1% from 54-58m; 6% from 58-60m 3% from 60-64 m. 4-8% fine grained disem Py, almost unoxidized where weakly limonitic, mod. oxidized where more limonitic. Weak-moderate silica stockwork weak carbonate alteration. Biotite strongly altered, weakly so from 50-52 m. 30% ARGG from 52-54m, 25% from 58-62m
64	74	ARGG	C3, S2 SK Mod. ~~gra~~ graphitic argillite, moderate quartz (+ carbonate?) stockwork, mod-strong carbonate alteration
74		EOH	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1572

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	2	NONE	No recovery - casing not attached to shoe	
2	8	LAQM	3% Lim, 2% Py, Co, S_{0-1}, B_{3-2}, P_3	
8	12	LQM	3% Lim, tr-2% Py, C_2, S_1, B_{1-2}, P_2	
12	14	LAQM	3% Lim, 4% Py, C_3, S_1, B_{2-3}, P_3	
14	16	ARG	Co, S_1	
16	18	LAQM	3% Lim, 5% Py, C_2, S_1, B_{1-3}, $P_{1,1}$ 50:50 LQM SK	
18	36	ARG	Co, S_2	
36	38	LQM	3% Lim, 5% P_2, C_1, S_1, B_1, P_2	
38	47	LAQM	1-4% Lim, 8% P_3, C_1, S_1, B_3, P_2	SK
47	53	ARG	C_1, S_2	SK
53	57	LAQM	3% Lim, 10% Py, C_1, S_2, B_3, P_2	
57	69	ARG	Co-1, S_3	SK
69	76	LAQM	3% Lim, 4% Py, Co, S_1, B_3, P_2	SK
76		EOH	EOH - drill steel stuck	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1572

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	NONE	No recovery - casing not attached to shoe
2	8	LAQM	3% Lim, 2% P, Co, Sa-1, B 3-2, P3
			Increasingly limonitic pervasive limonitic alteration to 8m of quartz monzonite, 1-3% fine grained, disseminated + fracture controlled pyrite. Biotite strongly altered, weak silica influx.
8	12	LQM	3% Lim, tr-2% Py, C2, S1 B1-2, P2
			Similar to LAQM from 2-8m, biotite weakly altered, tr-2% mod oxidized pyrite. Locally stronger biotite alteration, mod. carbonate alt, weak silica stockwork
12	14	LAQM	3% Lim, 4% P, C3, S1, P3 B2-3 SK
			Similar to LAQM from 2-8m, mod-strong biotite alteration, 4% fracture controlled oxidized pyrite, minor dissem. Pyrite
14	16	ARG	Co, S1
			Grey, weakly laminated argillite, weak quartz stockwork.
16	18	LAQM:	50:50 LQM 5% Py, C2, S1 B1-3, P1, 3% Lim S/S
		LQM	Mixed -biotite-monzonite + altered
		(50:50)	quartz monzonite, both weak-moderately limonitic
			5% f.gr. dissem Pyrite, weakly oxidized, in
			LAQM. Moderate carbonate, weak silica alteration, weak quartz stockworks
18	36	ARG-C	Co, S2 SK
			Weakly-moderately graphitic, weakly laminated
			argillite, moderate, variable quartz stockwork
			Trace fracture controlled limonite 30-36 m.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1572

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
36	38	LQM	3% Lim, 5% Py, C_1, S_1, B_1, P_2
			Med. pervasive limonite alteration of Quartz-Biotite Monzonite. ≈25% Biotite, 5% dissem. fine grained Pyrite. Weak carbonate alteration, silica stockwork.
38	47	LAQM	1-4% Lim, 8% Py, C_1, S_1, B_2, P_2 SK
			Variable, pervasive limonite altered quartz monzonite. 4-10% weakly-moderately altered, fine grained, disseminated Pyrite. Weak carbonate alteration + silica stockwork. From 38-42m very weak limonitic alt, pyrite almost unoxidized. Strongly altered biotite.
			70:30 ratio LAQM: ARGG from 42-47m.
47	53	ARGG-	C_1, S_2 SK
			Mod. argi graphitic argillite, moderate quartz stockwork, weak carbonate alteration from 47-50m.
53	57	LAQM	3% Lim, 10% Py, C_1, So, B_3, P_2
			Moderately, pervasively limonitic quartz monzonite 10% weakly-mod. fine grained, disseminated Pyrite. Weak-moderate carbonate alteration, strongly altered biotite.
57	69	ARGG-	C_0-$_1$, S_2 SK
			Mod. graphitic argillite, strong quartz stockwork, weak intermittant carbonate alter.
			Weak (local) pervasive silica influx

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1572

Logged by: C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
69	76	LAQM	3% Lim, 4% Py Co, Si, B3, P2 SK
			Mod pervasive limonite alteration of Qz-monzonite,
			2-5% fine grained, mod. oxidized dissem. + fracture
			controlled pyrite, strong biotite alteration of
			biotite. Local minor weakly altered biotite from
			72-74m, with hornblende. Mod. carb alteration
			from 74 - 76m, weak quartz stockwork to
			74m.
76m	EOH		Drill steel stuck - EOH

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1573

Page 1 of 1

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	6	LAQM	5% Lim, 4% Py, Co, So, B3, P3	
6	10	AQM	tr Lim, tr Py, Co, S1, B3, P3	SK
10	14	ARGG	Co S2	SK
14	17	LAQM	6% Lim, 6% Py, C1, S2, B3, P2	SK
17	21.5	ARGG	Co, S3	SK
21.5	25.5	LAQM	5% Lim, 9% Py, C1, S1, B3, P3	SK
25.5	62.0	ARGG	Co, S1-0 tr Lim.	SK
			Moderately graphitic weakly foliated argillite, weak local carbonate alteration + weak silica stockwork from 42-52m. Trace fracture controlled limonite from 50-62m	
62.0		EOH	END OF HOLE	

* 1 m. excavated

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1573

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	6	LAQM	5% Lim, 4% Py, Co, So, B3, P3
			Moderately pervasive limonite, strong lim along
			fractures, in altered qz monzonite. 4-6% fine
			grained strongly oxidized pyrite, disseminated
6	10	AQM	tr Py, tr Lim, Co, S1, B3, P3 SK.
			Mixture of ≈ 30% ARGG, 20% LAQM, 50% AQM
			AQM: strongly altered qz-monzonite, strong alt.
			of biotite, trace dissem. oxidized Pyrite,
			trace scorodite indicating arsenopyrite. Weak
			quartz stockwork. LAQM similar to that
			from 0-6m; ARGG grey-black, mod. stockworked
10	14	ARGG	Co, S2 SK
			Moderately graphitic weakly foliated
			argillite, strong quartz stockworks
14	17	LAQM	6% Lim, 6% Py, C1, S2, B2, P2 SK
			strong pervasive limonite alt, stronger along
			fractures in alt. quartz monzonite. 6-7%
			fine grained disseminated weak-moderately
			oxidized Pyrite, Weak carbonate alterations
	21.5		mod-strong silica stockwork.
17		ARGG	Co, S3 SK
			Strong quartz stockwork, weakly graphitic
			argillite. Trace fracture controlled Pyrite
21.5	25.5	LAQM	5% Lim, 9% Py, C1, S1, B3, P3 SK
			Moderate pervasive, strong fracture controlled
			limonite alteration of alt qz monzonite
			Biotite nearly destroyed, 9-10% mod-strongly
			oxidized Pyrite local unoxidized fragments

* 1 m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1573

Page 2 of 2

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weak carbonate alteration,
25.5	62.0	ARGL	Co, Si-o, tr Lim SK
			Moderately graphitic, weakly foliated argillite
			weak local carbonate alteration + weak silica
			stockwork from 42-52m. Trace fracture
			controlled limonite from 50-62m
			Water at 46m
62.0		EOH	End of HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-1574

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden (1 m. fill)
2	4	LAQM	3% Lim, 5% Py, C2, So, B3, P3
4	7	ARGG	tr Py, Co, S2, P3 SK
7	11	LAQM	3% Lim, 3% Py, C1, So, B2-3, P3
11	14.5	SLT:	SLT: 1% Lim, Co, So 60:40 ARGG
			ARGG: tr Lim, Co, S1 SK
14.5	26.0	LAQM	14.5-20.0 : 3% Lim, 8% Py, Co, So, B3, P3
			20.0-26.0 : 4% Lim, 10% Py, C2, So, B3, P2
26.0	28.0	ARGG	tr Lim, C1, S1 SK
28.0	31.5	LAQM	4% Lim, 8% Py, C3, So, B3, P3
31.5	34.0	ARGG	tr Lim, C1, So
34.0	36.0	ARGG:	tr Lim, Co, S2, SK 50: 50 LAQM (ARGG)
			2% Lim, 1% Py, Co, S4, B3, P3 SK (LAQM)
36.0	60.0	ARGG	Co, S1 SK
60.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1574

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden (1 m fill)
2	4	LAQM	3% Lim, 5% Py, C2, So, B3, P3
			Moderate, pervasive limonite, stronger along fracture
			planes, in strongly altered qz-biotite monzonite,
			5% disseminated, med-fine grained, strongly
			oxidized pyrite. Moderate carbonate alteration
4	7.0	ARG	tr Py, Co, Sg, P3 SK
			Argillite, strong-moderate quartz stockworks,
			trace limonite along fractures.
7	11.0	LAQM	3% Lim, 3% Py, C1-2, So, B2-3, P3
			Moderate, pervasive limonite within strongly
			altered quartz-biotite monzonite, 3% fine
			grained, disseminated, strongly altered oxidized
			pyrite. Variable carbonate alteration, strongest
			from 8-10m.
			8-10m: 25% bleached ARG, tr limonite
			20% LQM - unaltered qz-biotite monzonite
			+ 3% limonite.
11	14.5	SLT:	SLT: 1% Lim, Co, So 60:40 ARGG
			ARGG: tr Lim, Co, S1 SK
			60:40 mixture of SLT: ARGG
			SLT: 1% foliation controlled + disseminated
			pervasive limonite in weakly foliated siltstone
			ARGG: Weakly graphitic argillite, trace fine
			fracture controlled limonite, weak
			quartz stockworks
14.5	26.0	LAQM	14.5-20m: 3% Lim, 8% Py, Co, So, B2, P3
			20-26m: 4% Lim, 10% Py, C2, So, B2, P3

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1574

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Moderate, pervasive limonite, increasing with depth in strongly altered quartz-biotite monzonite. ~9% fine grained disseminated pyrite, strongly oxidized - decreasing oxidation with depth. Moderate carbonate alteration from 20-26m. Minor LAQM from 14-18m
26.0	28.0	ARGG	tr Lim, C_1, S_1 SK
			Weakly graphitic argillite, weak carbonate alteration, weak silica stockwork, trace fracture controlled limonite
28.0	31.5	LAQM	4% Lim, 8% Py, C_3, S_0, B_2, P_2
			Strong pervasive limonite in strongly oxidized altered qz-biotite monzonite. 8% fine grained disseminated + fracture controlled strongly oxidized pyrite. Strong carbonate alteration.
31.5	34.0	ARGG	tr Lim, C_1, S_0
			Grey argillite, weak carbonate alteration, trace fracture controlled limonite.
34	36	ARGG/LAQM	ARGG: tr Lim, C_0, S_2, SK 50:50 LAQM
			LAQM: 2% Lim, 1% Py, C_0, S_4, B_2, P_2, SK
			Equal mixture of weakly graphitic argillite, moderate quartz stockwork (ARGG), and strongly altered weakly limonitic qz-biotite monzonite (LAQM), with very strong quartz stockwork. 1% fine grained, disseminated, strongly oxidized pyrite in LAQM.
			- probably represents small unit of brecciated LAQM

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1574

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
36	60	ARGG	Co, Si
			Weak-moderately graphitic argillite, weak
			quartz stockworks.
60		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1575

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	8	ARGL	tr Lim, Co, S2 SK
8	10,5	LQM	3% Lim, Co, So, B1-2
10,5	17,5	LAQM	4% Lim, 5% Py, Co, So, B2-3, P3
17,5	20.0	LQM	2% Lim, Co, So, B1
20.0	22,0	ARL	tr Lim, Co, So
22.0	24.0	SLT!	SLT: 1% Lim, Co, So 60:40 ARGL
			ARGL: tr Lim, Co, So
24.0	36.0	LAQM	4% Lim, 8% Py, C2, So, B3, P3
36.0	38.0	LQM	LQM: 3% Lim, C2, So, B1 60:40 LAQM
			LAQM: 3% Lim, 2% Py, C3, So, B3, P3
38,0	50.0	LAQM	38-46m: 3% Lim, 9% Py, C1, So, B3, P2
			46-50m: 2% Lim, 5% Py, Co, S3, B3, P2 partial SK
50,0	64	ARGL	Co, S1 SK
64		EOH	END OF HOLE - rods tight

0,5 m. excavated

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1575

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	8	ARGG	tr Lim, Co, S_2 5%
			weakly graphitic argillite, moderate quartz fracture controlled stockwork. Fine grained limonite enriched fracture system.
8	10.5	LQM	3% Lim, Co, So, B_{1-2}
			Moderate pervasive limonite in quartz-biotite monzonite, weakly altered to unaltered biotite. Minor LAQM, trace pyrite
10.5	17.5	LAQM	4% Lim, 5% Py, Co, So, B_3, P_3
			Strong-moderate, pervasive limonite within strongly altered qz-biotite monzonite. Minor unaltered biotite throughout. 5% fine grained, disseminated + fracture controlled pyrite, strongly oxidized.
			12-14m: 20% ARGG (small unit?)
17.5	20.0	LQM	2% Lim, Co, So, B_1
			Weak pervasive limonite in qz-biotite monzonite, minor LAQM. Unoxidized equivalent of 10.5-17.5m LAQM interval?
20.0	22.0	ARGG	tr Lim, Co, So
			Argillite, weakly bleached?, trace fine fracture controlled limonite
22.0	24.0	SLTi	SLT: 1% Lim, Co, So 60:40 ARGG
			ARGG: tr Lim, Co, So
			60:40 mixture of SLT:ARGG: Siltstone is weakly foliated, 1% fracture controlled + laminated limonite. ARGG is weakly graphitic, trace limonite along fine fractures.

0.5m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1575

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			SCT may be weakly bleached, limonitic argillite
24.0	36.0	LAQM	4% Lim, 8% Py, C_2, So, B_2, P_2
			Strong, pervasive limonite, slightly stronger along
			fractures, in strongly altered qz-biotite
			monzonite. Weak limonite from 28-31m,
			assoc. with ~3% strongly oxidized disseminated,
			med. grained pyrite. Elsewhere, 6-10% fine grained
			disseminated strongly oxidized pyrite, less
			oxidized from 32-36m. Moderate carbonate
			alteration, strong from 30->2m. Local, weak
			quartz stockwork. Minor LQM from 34-36m
36.0	38.0	LQM	LQM: 3% Lim, C_2, So, B_2
			LAQM: 3% Lim, 2% Py, C_3, So, B_3, P_3
			LQM:LAQM 60:40. Mixed quartz biotite
			monzonite, moderate pervasive limonite (LQM)
			and moderately, pervasively limonitic strongly
			altered qz-biotite monzonite (LAQM)
			2% fine grained, disseminated, strongly oxidized
			pyrite, difficult to distinguish, in LAQM.
			Mod. carbonate alteration of LQM, strong in
			LAQM. Minor green mica in LQM
38.0	50.0	LAQM	3% Lim, 9% Py, C_1, So, B_2, P_2 (38-46m)
			2% Lim, 5% Py, C_0, S_3, B_2, P_2 (46-50m)
			Moderate pervasive limonite, weak from 46-50m,
			in strongly altered qz-biotite monzonite.
			Strong silicification from 46-50m, weak quartz
			stockwork. 7-12% disseminated +lesser fracture
			controlled med. oxidized pyrite, 2% from 48-50m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1575

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Weak carbonate alteration from 38-46m.
			Minor AQM, no limonite from 40-44m
50.0	64	ARGV	Co, Si SIS
			Moderate-strongly graphitic, weakly foliated
			argillite. Weak, often very fine fracture
			controlled quartz stockwork. Trace limonite,
			fracture controlled, from 50-56m. ~~Minor~~
			~~LAQM~~
64		EOH	End of hole - rods tight

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1576

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	23	ARGL	0-12m: Co, So
			12-18m: Co, S1 SK
			18-23: Co, S1
23	26	LQM	3% Lim, Co, So, B1
26	28	LAQM:	LAQM: 3% Lim, 8% Py, Co, S2, B2, P3 60:40 ARGL
			ARGL: tr Lim, Co, S1 SK
28	32	LAQM	3% Lim, 4% Py, C1, S1, B3, P3
32	35	LQM	2% Lim, C2, So, B1
35	38	ARG	tr Lim, Co, So
38	49	LAQM	38-40m: 2% Lim, 8% Py, Co, S1, B3, P2
			40-46m: 2% Lim, 3% Py, C2, So, B2-3, P2
			46-49m: 3% Lim, 8% Py, C2, So, B3, P2
49	51	ARGL	tr Lim, Co, S1 SK
51	66	LAQM	2% Lim, 7% Py, C1, So, B3, P3
66	70	LAQM:	LAQM: 3% Lim, 9% Py, Co, S1, B3, P2 80:20 ARGL
			ARGL: tr Py, Co, S1
70	76	ARGL	tr Lim, Co, S2 SK
76		EOH	END OF HOLE

1m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1576

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	23	ARGG	0-12m: Co, So
			12-18m: Co, S3 SK
			18-23m: Co, S1
			weakly limonitic argillite, strong quartz stockwork from 12-18m, weak stockwork from 18-23m
23	26	LQM	3% Lim, Co, So, B1
			Mod - pervasive limonite within quartz-biotite
			monzonite. Minor LAQM + fracture controlled
			limonite from 23-24m
26	28	LAQM:	LAQM: 3% Lim, 8% Py, Co, So, B3, P3 60:40 ARGG
			ARGG: tr Lim, Co, S1 SK
			LAQM: ARGG 60:40. Moderate pervasive
			limonite in strongly altered qz-biotite mon-
			zonite, 8% disseminated + fracture controlled,
			fine grained, strongly oxidized pyrite.
			ARGG: weakly graphitic argillite, weak
			fracture controlled- quartz stockwork.
			Minor unaltered qz-biotite monzonite (can)
28	32.0	LAQM	3% Lim, 4% Py, C1, S1, B3, P3
			Moderate, pervasive limonite in strongly altered
			qz-biotite monzonite, 4% Fine grained dissem-
			inated + fracture controlled pyrite, strongly
			oxidized. Weak carbonate alteration, fine
			quartz/silica stockwork.
			30-32m: 20% ARGG, minor LQM (unaltered)
32.0	35.0	LQM	2% Lim, C1, So, B1
			Weak pervasive limonite in unaltered
			quartz-[illegible]biotite monzonite, weak

1m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC - 1576

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			carbonate alteration.
			34-35m: 25% LAQM, 6% fine grained dissem. pyrite, mod. oxidized
35	38	ARG	tr Lim, Co, So
			Argillite, grey-blacks, trace fracture controlled limonite
38	49	LAQM	38-40m: 2% Lim, 8% Py, Co, S1, B3, P2
			40-46m: 2% Lim, 3% Py, C2, So, B2-3, P2
			46-49m: 3% Lim, 8% Py, C2, So, B3, P2
			Weak-moderate pervasive limonite in strongly altered quartz-biotite monzonite, Moderate-strong alteration from 40-46m, some pyrite after biotite with 2-4% fine grained, disseminated, moderately oxidized pyrite, and moderate carbonate alterat. Elsewhere, 8% disseminated, fine grained, moderately oxidized pyrite, mod. carb alteration, none from 38-40m.
49	51	ARG	tr Lim, Co, S1 SK
			Weakly graphitic argillite, weak quartz stockwk, trace fracture controlled limonite
51	66	LAQM	2% Lim, 7% Py, C1, So, B3, P3
			Weak-moderate pervasive limonite in strongly altered qz-biotite monzonite, 5-9% fine grained locally med. grained, disseminated, strongly oxidized pyrite, weak carbonate alteration, moderate from 62-66m.
66	70	LAQM:	LAQM: 3% Lim, 9% Py, Co, S1, B3, P2 80:20 ARGG
			ARG: tr P3, Co, S1

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-1576

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			LAQM: ARGG 80:20 : Moderate limonite, pervasive, within strongly altered qz-biotite monzonite (LAQM) mixed with weakly graphitic argillite with weak quartz stockworks, 9% fine grained, disseminated, str weak - moderately oxidized pyrite in LAQM, with weak silica stockwork.
70	76	ARGG	tr Lim, Co, Sz Sb
			weakly graphitic argillite, strong quartz stockwork near contact, decreasing with depth. Weak limonite along fine fractures, strongest from 74-76m
76		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1577

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	22.5	ARGG	tr Lim, Co, S1 SK
22.5	29.0	LAQM	3% Lim, 3% Py, Co, So, B3, P3
29.0	31.0	ARGG	tr Lim, Co, S1
31.0	32.0	LAQM	4% Lim, 7% Py, Co, So, B3, P3
32.0	34.0	ARGG:	ARGG: Co, S3 SK 60:40 SLT
			SLT: tr Lim, Co, So
34.0	40.0	ARGG:	ARGG: tr Lim, Co, So/S3 75:25 LAQM
			LAQM: 4% Lim, 5% Py, Co, S1, B3, P2
40.0	42.0	LQM	3% Lim, tr Py, Co, S1, B1, P2
42.0	44.5	LAQM	3% Lim, 3% Py, Co, So, B2, P2
44.5	48.0	LQM	2% Lim, Co, So, B1
48.0	51.5	LAQM	3% Lim, 2% Py, Co, So, B2-3, P3
51.5	60	SH	tr Lim, C3, SO
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1577

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	22.5	ARGG	tr Lim, Co, Sl SK
			weakly graphitic argillite, weakly limonite, strongest from 10-12m, and 18-23m, near contact
			limonite fracture controlled. Weak-moderate, variable quartz stockwork, strongest from
			4-8m.
22.5	29.0	LAQM	3% Lim, 3% Py, Co, So, Bz, Pz
			Moderate, pervasive limonite (+strong fracture controlled
			limonite from 22-24m) in strongly altered
			qz-biotite monzonite, 3-5% fine grained,
			disseminated, strongly oxidized pyrite,
			some remnant boxwork
29.0	31.0	ARGG	tr Lim, Co, Sl
			Weakly graphitic argillite, trace fracture
			controlled limonite. Trace fine silica stockwork.
31.0	32.0	LAQM	4% Lim, 7% Py, Co, So, Bz, Pz
			Strong pervasive limonite in strongly altered qz-
			biotite monzonite, 7% disseminated, strongly oxidized,
			fine grained pyrite, minor pyrite boxwork.
32.0	34.0	ARGG:	ARGG: Co, Sz SK 60:40 SLT
			SLT: tr lim, Co, So
			ARGG:SLT 60:40. Mixture of weakly graphitic
			argillite (ARGG) with strong quartz stockwork,
			and weakly laminated siltstone (SLT) with
			trace limonite
34.0	40.0	ARGG:	ARGG: tr Lim, Co, So/Sz 75:25 LAQM
			LAQM: 4% Lim, 5% Py, Co, Sl, Bz, Pz
			ARGG:LAQM 75:25 ARGG: Mixture

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1577

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			of weakly graphitic argillite (ARGG), trace fracture controlled limonite + strong silica stockwork from 32-34m; and strongly, pervasively limonitic, altered quartz-biotite monzonite. Minor sil SLT from 34-36m. In LAQM, 5% disseminated, fine grained, moderately oxidized pyrite.
40.0	42.0	LQM	3% Lim, tr Py, Co, S1, B1, P2 Moderate, pervasive limonite in weakly altered quartz-biotite monzonite. Trace moderately oxidized pyrite. Minor LAQM, ~20% ARG.
42.0	44.5	LAQM	3% Lim, 3% Py, Co, So, B1, P2 Moderate, pervasive limonite in strongly altered quartz-biotite monzonite, 3% very fine grained, moderately oxidized, disseminated pyrite.
44.5	48.0	LQM	3% Lim, Co, S1, B1 Weak, pervasive limonite in quartz-biotite monzonite, weak quartz stockwork from 44.5-46m
48.0	51.5	LAQM	3% Lim, 2% Py, Co, So, B2-3, P2 Moderate, pervasive limonite in mod-strongly altered quartz-biotite monzonite. 2% Fine grained disseminated + fracture controlled moderately-strongly oxidized pyrite. Minor but pervasive LQM From 50-51.5m
51.5	60	SH	tr Lim, C2, So Med. grey, moderately foliated shale, weak laminae controlled limonite. Very strong semi-pervasive carbonate alteration.
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1578

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	LAQM	2% Lim, 6% Py, C_1, S_2, B_3, P_3
2	4	LQM	1% Lim, Co, S_1, B_1 SK
4	9	LAQM	3% Lim, 5% Py, C_2, So, B_3, P_2
9	13.5	LQM	1% Lim, C_3, Se, B_1
13.5	22.0	LAQM	3% Lim, 4% Py, C_3, S_2, B_3, P_3
22.0	24.0	LAQM:	LAQM: 2% Lim, 2% Py, C_2, S_1, B_2, P_1 50:50 AQM
			AQM: C_1, So, B_2
24.0	33.0	LAQM	3% Lim, 3% Py, C_2, S_1, B_3, P_{2-1}
33.0	34.0	ARLG	C_3, S_4 SK
34.0	42.0	LAQM	3% Lim, 4% Py, C_3, S_1, B_3, P_2
42.0	46.5	SLT:	SLT: tr Lim, 1% Py, Co, S_1 P_1 70:30 LAQM
			LAQM: 3% Lim, 5% Py, Co, S_2, B_3
46.5	53.5	ARLG	Co, S_3 SK
53.5	56.0	ARLG:	ARLG: tr Lim, Co, S_3 SK 60:40 LAQM
			LAQM: 3% Lim, 2% Py, Co, S_3, B_3, P_2 SK
56.0	58.0	LAQM:	LAQM: 3% Lim, 4% Py, C_1, Se, B_3, P_2 60:40 LQM
			LQM: 2% Lim, C_1, So, B_1
58.0	61.5	LAQM	4% Lim, 4% Py, C_1, S_1, B_3, P_2 SK
61.5	66	ARLG	Co, So
66		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1578

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	LAQM	2% Lim, 6% Py, C_1, S_2, B_2, P_2
			Weak pervasive limonite (bleached?) in strongly
			altered quartz monzonite, 6% fine grained, fracture
			controlled, strongly oxidized pyrite, weak carb,
			moderate silica stockwork.
2	4	LQM	1% Lim, C_0, S_1, B_1 SK
			Weak, pervasive limonite in quartz biotite
			monzonite, weak quartz stockwork?
4	9	LAQM	3% Lim, 5% Py, C_2, S_0, B_2, P_2
			Moderate, pervasive limonite in strongly altered
			quartz - biotite monzonite, 5% fine grained
			fracture controlled and disseminated pyrite, mod.
			oxidized. Strong - moderate carbonate
			alteration. Minor AQM, no limonite, unoxidized
			pyrite.
9	13,5	LQM	1% Lim, C_2, S_0, B_1
			Very weak, pervasive limonite in quartz-biotite
			monzonite. Strong carbonate alteration,
			minor LAQM.
13,5	22	LAQM	3% Lim, 4% Py, C_3, S_2, B_2, P_2
			Moderate, pervasive limonite in strongly altered
			quartz - biotite monzonite. 2-7%, variable concentra-
			tions, of pyrite, moderately oxidized, decreasing
			oxidation with depth. Fine grained, disseminated
			Strong carbonate alteration, moderate - strong
			silica pervasive silica influx.
22	24	LAQM/	LAQM: 2% Lim, 2% Py, C_2, S_1, B_2, P_1 50:50 AQM
			AQM: C_1, S_0, B_2

0,5 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1578

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Equal mixture of moderately altered quartz biotite monzonite (LAQM) and weakly pervasively limonitic moderately altered quartz monzonite (LAQM). Considerable mod. altered remnant biotite. In LAQM, 2% fine grained, disseminated weakly oxidized pyrite, moderate carbonate alteration, weak pervasive silicification. AQM: weak carbonate alteration.
24.0	33.0	LAQM	3% Lim, 3% Py-, C_2, S_1, B_2, P_{2-1} Moderate, pervasive limonite within strongly altered quartz-biotite monzonite. 1-3% moderately oxidized, fine grained, disseminated pyrite From 24-32m, 6% weakly oxidized similar pyrite from 32-33m. Moderate carbonate alteration, weak silicification.
33.0	34.0	ARGC	C_3, S_4 SK Weakly graphitic argillite, strong carbonate + silica stockwork - Brecciated (?) - fault?
34.0	42.0	LAQM	3% Lim, 4% Py, C_3, S_1, B_3, P_2 Moderate, pervasive limonite within strongly altered quartz biotite monzonite. 2-6% Pyrite, variable concentrations, fine grained, disseminated, mod-strongly oxidized. Strong carbonate alteration, weak pervasive silicification.
42.0	46.5	SLT:	SLT: tr Lim, 1% Py, C_0, S_1, P_1 70:30 LAQM LAQM: 3% Lim, 5% Py, C_0, S_2, B_2, P_2 SLT: LAQM 70:30: Mixture of grey, weakly foliated + laminated siltstone (SLT) minor quartz

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1578

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			stockwork from 44 - 46.5m; and strongly, pervasively limonitic strongly altered quartz-biotite monzonite, 2-7% Pyrite, variable amounts, in LAQM: fine grained, moderately oxidized, disseminated pyrite.
46.5	53.5	ARVV	Co, S3 5K
			Moderately graphitic argillite, strong quartz stockwork, fracture + breccia filling.
53.5	56.0	ARVV:	ARVV: tr Lim, Co, S3 60:40 LAQM
			LAQM: 3% Lim, 2% Py, Co, S3, B3, P2
			ARVV: LAQM 60:40. Mixed moderately graphitic argillite, strong quartz stockwork (ARVV) and moderate pervasively limonitic altered quartz-biotite monzonite. In LAQM: 2% disseminated, moderately oxidized, fine grained pyrite, strong quartz stockwork.
56.0	58.0	LAQM:	LAQM: 3% Lim, 4% Py, C1, So, B2, P2 60:40 LQM
			LQM: 2% Lim, C1, So, B1
			LAQM: LQM 60:40 : Mixture of moderately pervasively limonitic qz-biotite monzonite, & strongly altered (LAQM) and weakly pervasively limonitic qz-biotite monzonite (LQM), both weakly carbonate altered. LAQM contains 4% disseminated, fine grained, weakly-moderately oxidized pyrite.
58	61.5	LAQM	4% Lim, 4% Py, C1, S1, B2, P2 5K
			Strong-moderate, pervasive limonite in strongly altered quartz-biotite monzonite. 4% fine

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1578

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			grained, disseminated, mod-strongly oxidized pyrite, weak carbonate alteration, quartz stockwork
61.5	66	ARGC	Co, So
			Moderately graphitic argillite
66		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1579

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.5	OVB	FILL
2.5	4.5	LAQM	3% Lim, 4% Py, Co, S1, B3, P3
4.5	6.5	ARGG	tr Lim, Co, S3 5K
6.5	13.0	LAQM	3% Lim, 6% Py, Co, So, B3, P2
13.0	19.0	ARGG	tr Lim, Co, S1 5K
19.0	21.0	LAQM	4% Lim, 2% Py, Co, S1, B3, P3
21.0	23.5	ARGG	1% Lim, Co, So
23.5	27.5	LAQM	4% Lim, 4% Py, Co, So, B3, P3
27.5	42.0	ARGG	Co, So (38-42m -S2)
42		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1579

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.5		FILL
2.5	4.5	LAQM	3% Lim, 4% Py, Co, Sl, Bz, Pz
			Moderate, pervasive limonite in strongly altered qz-biotite monzonite. 4% fine grained disseminated strongly oxidized pyrite, minor fracture controlled manganese + quartz stockwork.
4.5	6.5	ARGG	tr Lim, Co, Sz SK
			Weakly graphitic argillite, strong quartz stockwork, trace fracture controlled limonite
6.5	13.0	LAQM	3% Lim, 6% Py, Co, So, Bz, Pz
			Mod-strong, pervasive limonite in strongly altered quartz-biotite monzonite, minor unaltered biotite 5-8% fine grained disseminated +fracture controlled pyrite, mod-strongly oxidized.
13.0	19.0	ARGG	tr Lim, Co, Sz SK
			Weakly ~~argillic~~ graphitic argillite, weak quartz stockwork, moderate from 18-19m. Trace fracture controlled limonite, stronger near lower contact
19.0	21.0	LAQM	4% Lim, 2% Py, Co, Sl, Bz, Pz
			Strongly limonitic, fracture controlled, less pervasive within quartz biotite monzonite, 2% fine grained fracture controlled +disseminated strongly oxidized pyrite. Weak, fine quartz stockwork
21.0	23.5	ARGG	1% Lim, Co, So
			Weakly graphitic argillite, 1% fine fracture + foliation controlled limonite, minor hematite
23.5	27.5	LAQM	4% Lim, 4% Py, Co, So, Bz, Pz
			Strong pervasive +fracture controlled limonite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1571

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			within strongly altered quartz-biotite monzonite
			5% fine-medium grained strongly oxidized
			disseminated pyrite, also pyrite boxwork
			indicating former pyrite presence
27.5	42	ARGG	Co, So (S2 from 38-42m)
			weak-moderately graphitic argillite, weak
			quartz stockwork from 38-42m
42		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1580

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SST	fr-lsLim, lsPy, C_3, S_2, P_2 SK
10		EOH	End of Hole - abandoned

2 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1580

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SLT	tr-1% Lim, 1% Py, C_3, S_2, P_2 SK
		(SST?)	Calcareous siltstone (Steele formation?)
			tan - light grey, tr-1% fracture controlled
			+foliation controlled limonite, Strong
			carbonate alteration, weak-moderate quartz
			stockwork, locally parallel to foliation
10		EOH	END OF HOLE - abandoned

2 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 158

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
N.B.			No summary log
0	14	OVB	No samples
14	43.5	AEGG	Co, Sz, tr Lim (14 - 28m)
			Co, Si, tr Lim (28 - 43.5m)
43.5	46.5	AQM	tr Lim, 10% Py, Co, So, Bz, Po
46.5	50	AEGG	Co, So
50		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1581

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
NB.			No summary log
0	14		No samples
14	43.5	ARGL	Co, Sz, tr Lim (14 – 28m) SIS
			Co, Si, tr Lim (28 – 43.5m) SIS
			Moderately graphitic argillite, weakly foliated, grey-black, Strong quartz stockworks from 14-28m, associated with minor limonite.
			Weak, locally moderate quartz stockwork from 28 – 43.5m. Trace localized fracture controlled limonite.
			14-16m: Minor LAQM, moderate limonite, possible minor siltstone with moderate limonite along laminae
43.5	46.5	AQM	tr Lim, Co, Sey, Bz, 10% Py, tr Asp?, Po
			Strongly altered quartz monzonite, trace fracture controlled limonite. 10% fine grained unoxidized disseminated pyrite. Trace arsenopyrite?
46.5	SO.	ARGL	Co, SD
			Weakly moderately graphitic argillite, similar to ARGL from 14 – 43.5m
SO		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: KC 1582

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	8	OVBN	Overburden
8	10	ARVC	tr Lim, Co, S_1 SK
10	11.5	LAQM	3% Lim, 6% P_{fg}, Co, S_1, B_3, P_3 SK
11.5	20.5	ARVC	tr Lim, Co, S_1 SK
20.5	33.5	LAQM	2% Lim, 6% P_{fg}, Co, So, B_2, P_1
33.5	50.0	ARVC	tr Lim, C_1, S_1 SK
50.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1582

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	8	OVBN	Overburden
8	10	ARGG	tr Lim, Co, Sl SK
			Weakly graphitic argillite, weak quartz
			stockwork. Trace fracture controlled limonite
10	11.5	LAQM	3% Lim, 6% Py, Co, Sl, Bz, Pl
			Moderate pervasive limonite in strongly altered
			quartz-biotite monzonite. 6% disseminated
			med-fine grained, euhedral, strongly oxidized
			pyrite. minor fracture controlled manganese
11.5	20.5	ARGG	tr Lim, Co, Sl SK
			Weakly-moderately graphitic argillite,
			weak quartz stockwork. Weak fracture
			controlled limonite.
20.5	33.5	LAQM	2% Lim, 6% Py, Co, Sa, Bz, Pl
			Weak, pervasive limonite within strongly
			altered quartz-biotite monzonite. 5-8% dissem-
			inated med-fine grained pyrite, weakly
			oxidized to nearly unoxidized. Limonite
			less pervasive from 24-26m.
			28-30m: ~20% ARGG, weak quartz stockwork
			Summary log indicates ARGG from 28.5-
			30.0m.
			28-33.5m. Weak silica influx, partially
			as quartz stockwork.
33.5	50	ARGG	tr Lim, Sl, Cl, SK
			Weakly graphitic argillite, weak quartz
			stockwork, locally with limonite. Weak
			carbonate alteration, moderate from 38-42m.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1582

Page 2 of 2

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Moderate fine quartz stockwork + limonite
			from 33.5-36.0m. Minor L4QM, roughly 5%
			weakly oxidized pyrite, from 40-50m (<10%)
50.		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1583

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	16	SST([redacted])	1% Lim, 1% Py, C2, So, P2
16	26	SST([redacted])	tr Lim, C2, So
26	34	SST([redacted])	1% Lim, 2% Py, C2, So, P2
34	40	SST([redacted])	tr Lim, tr P2, C1, So
40	42	SST([redacted])	1% Lim, 1% Py, C3, So, P2
42	46	SST:	SST: tr Lim, 2% P2, C2, So, P2 60:40 ARGW
			ARGW: tr Lim, C1, So
46	58	SST([redacted])	1% Lim, 2% Py, C2, So, P2
58	66	ARGW	tr Lim, C1, So
66		EOH	END OF HOLE - rods stuck

For excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1583

Logged by: Curt Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	16	SST	1% Lim, 1% Py, C2, So, P2 (STEELE FORMATION?)
		(SLT?)	Tan coloured fine grained, weakly foliated siltstone. Variable tan-grey colour suggests differential mineralization along select laminae 1% fracture + laminae controlled limonite, with 1-2% fine grained, mod. oxidized pyrite along limonitic + lighter coloured laminae Moderate-strong variable carbonate alteration.
16	26	SST (SLT?)	tr Lim, C2, So.
			Same siltstone unit; zone of lesser limonite staining + mineralization.
26	34	SST (SLT?)	1% Lim, 2% Py, C2, So, P2
			Same siltstone unit as 0-26m, 1-2% laminae and fracture controlled pyrite, mod. carbonate alteration
34	40	SST (SLT?)	tr Lim, tr Py, C1, So.
			Continuation of same unit; trace limonite + pyrite, reduced carbonate alteration
40	42	SST (SLT?)	1% Lim, 1% Py, C3, So, P2
			Continuation of same unit, 1% Limonite, 1% mod. oxidized fracture controlled + laminae controlled pyrite, strong carbonate alteration
42	46	SST:	SST: tr Lim, 2% Py, C2, So, P2 60:40 ARGC
			ARGC, tr Lim, C1, So
			SST:ARGC 60:40. Mixture of black argillite, weakly graphitic (ARGC) and

7m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1583

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weakly limonitic siltstone (SST-steele formation?), with 1-2% fine grained fracture + laminae controlled pyrite, Mod. carbonate alteration in SST, weak in ARGG.
46	58	SST (SLT)	1% Lim, 2% P_2, C_2, So, l_2 weakly limonitic fine grained siltstone, (same unit as 0-46m), weakly laminated, selectively mineralized - 2-3% laminae + fracture controlled, fine grained, moderately oxidized pyrite, moderate carbonate alteration, strong from 52-56m. Variable amounts of weakly graphitic argillite, from 10-30%, throughout, suggesting interbedded argillite + siltstone
58	66	ARGG	tr Lim, C_1, So Grey-blocky, weakly graphitic argillite, weak carbonate alteration. Minor siltstone, very weakly limonitic.
66		EOH	END OF HOLE; Rods stuck

LOKI GOLD CORPORATION

DRILL SITE INFORMATION

PK-83 HOLE-ID: 1584-RC-96

Page 2 of _____

DRILL SITE GEOLOGIST: Jay/Lizzie Start. Aug 11 finish Aug 12 N/S

TYPE OF DRILLING: RC HOLE SIZE: 5¼

DEPTH TO WATER: _____ m (Measured with water-well dipper)

20838 E
19809 N
994 ELEV
50m EOH
-55 INC

DRILL PAD:
EXCAVATED ? ✓ DEPTH OF EXCAVATION: 6 m
FILLED ? _____ DEPTH OF FILL: _____ m

CASING:
PULLED ? ____
LEFT IN HOLE: ____ TOTAL LENGTH _____ m HEIGHT ABOVE GROUND: _____ m

DRILL STEEL:
LOST IN HOLE ? ____ TOTAL LENGTH _____ m DEPTH 62 m
EQUIPMENT LOST _____

REVERSE CIRCULATION DRILLING METHOD:
CENTER SAMPLING ✓
TRI-CONE _____ DEPTH _____ m WHY? _____
OTHER: _____ DEPTH _____ m WHY? _____

FLUID INJECTION
WATER _____ AT WHAT DEPTH _____ m WHY? _____
OTHER (Specify) _____ DEPTH _____ m WHY ? _____
_____ DEPTH _____ m WHY? _____

COMMENTS: (eg. locations and estimated quantity of water encountered, downhole contamination caused by sloughing of incompetent rock units in a wet hole, contamination caused by other reasons, problems caused by bad ground, poor recovery, mechanical problems - if important, etc.)

0-2 bleached LAQM Casing 4m.
2-9.5 LAQM biotite
9.5 -23.8 ARGG.
23.8 - 36.5 LAQM
36.5 - 41.8 bleached LAQM (some Quartz 40-
41.8 - 45 LAQV
45 -49 bleached
49 - 51 grey | LAQM | bleached
51 - 52 LAQM
52 L-57 bleached LAQM
57 - 59.5 LAQM
59.5-62 ARGG 60.2 hit water!

E.O.H 62 m.

ENTERED S.Q.

LOKI GOLD CORPORATION

LITHOLOGY LOG

RC-96-158

HOLE-ID: Carl Schulze

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3	OVBN	Overburden
3	11.5	ARG-	1% Lim, 1% Py, Co, So, P2
11.5	14.5	ARG- ARGG	ARGG: 1% Lim, Co, So 55:45 SLT
			SLT (SST?) 2% Lim, 2% Py, Co, So, P2
14.5	18.0	ARGG:	ARGG: tr Lim, Co, So 70:30 SLT
			SLT: tr Lim, 1% Py, Co, So, P2
18.0	26.0	ARG- ARGG:	tr Lim, Co, So
26.0	34.0		ARGG: tr Lim, Co, So 55:45 SLT
			SLT: tr Lim, tr P2, Co, So
34.0	64.0	ARG-	tr Lim, tr Py, Co, S1, P3 SIS
64.0	66.5	SST	1% Lim, tr Py, Co, So, P2
66.5	71.0	ARG-	tr Lim, Co, So
71.0	76.0	SST LAQM	tr Lim, tr Py, Co, S1, P2
76.0	80.0		LAQM: 4% Lim, 9% Py, Co, S1, B3, P2 60:40 SST
			SST: tr Lim, Py, Co, S1, P2
80.0	85.5	LQM ARG	2% Lim, tr Py, Co, So, B1-2, P3
85.5	92.0		ARGG: tr Lim, tr Py, Co, So, P3 75:25 SLT
			SLT (SST) tr Lim, tr Py, Co, So, P3
92.0	103	ARGG-	Co, So
103		EOH	End of Hole

7 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: Carl Schulze

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3	OVBN	Overburden
3	11.5	ARG	1% Lim, 1% Py, Co, So, P Grey - black argillite, weakly laminated + foliated. Trace - 1% fracture + foliation controlled limonite. Tr - 1% Pyrite, fracture + foliation controlled, fine grained, moderately oxidized. Minor light grey siltstone + fine grained weakly - moderately oxidized pyrite (included in sulphide estimation), up to 20%, From 8 - 10m
11.5	14.5	ARGi	ARGi - 1% Lim, Co, So 55:45 SLT SLT (SST?) 2% Lim, 2% Py, Co, So, P ARGi : SLT 55:45 ARGi : Mixture of weakly graphitic argillite (ARGi), 1% fracture controlled limonite, and light grey siltstone (SLT, possibly STEELE FORMATION?), with weakly pervasive + somewhat stronger fracture controlled limonite. In SLT, 2% laminae + fracture controlled pyrite, moderately oxidized
14.5	18.0	ARGi	ARGi : Tr Lim, Co, So 70:30 SLT SLT : tr Lim, 1% Py, Co, So, P 70:30 ARGi : SLT : Mixture of weakly graphitic argillite (ARGi) with minor surficial fracture controlled limonite; and light grey, weakly laminated siltstone (SLT) with 1% fine grained laminae controlled moderately oxidized pyrite.

7m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1585

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
18.0	26.0	ARG	Gou tr Lim, Co, So.
			Grey, weakly foliated argillite. Minor fracture
			controlled limonite, minor siltstone.
26.0	34.0	ARG;	ARG: tr Lim, Co, So 55:45 SLT
			SLT: tr Lim, tr Py, C1, So, P2
			ARG: SLT 55:45 Mixture of weakly
			graphitic argillite (ARG) with trace
			limonite + fracture controlled pyrite; and
			light grey siltstone, locally brecciated,
			locally weakly carbonated, and trace
			fine grained pyrite. Interbedded strata?
34.0	64.0	ARG	tr Lim, tr Py, Co, S1, P2 SK
			Argillite, grey-black, weakly laminated.
			Trace fracture controlled limonite. Minor
			limonitic siltstone + pyrite, mod - strongly
			oxidized, local weak quartz or silica
			stockwork.
			40-42m: 30% light grey siltstone
64.0	66.5	SLT	1% Lim, tr Py, Co, So, P2
			Light grey siltstone, moderate fracture
			controlled limonite + minor moderately oxidized
			pyrite
66.5	71.0	ARG	tr Lim, Co, So
			Grey-black argillite, slightly mottled texture,
			trace fracture controlled limonite
71.0	76.0	SLT	tr Lim, tr Py, Co, S1, P2
			Light-medium grained siltstone, weakly
			Foliated + laminated. Trace disseminated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 158S

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			+ fracture controlled pyrite, associated with limonite, + local unoxidized fine grained fracture controlled pyrite from 74-76m, 72-74m: Minor LAQM, + mod. oxidized pyrite
76.0	80.0	LAQM:	LAQM: 4% Lim, 9% Py, Co, S_1, B_3, P_2 60:40 SST
			SST: tr Lim, tr P, Co, S_0, P_2
			LAQM: SST 60:40: Mixture of strongly altered qz-biotite monzonite, strong fracture controlled limonite, moderate pervasive limonite (LAQM) and light grey, weakly pervasively silicified siltstone (STEELE FORMATION?). 6-12% disseminated fine-medium grained, mod-strongly oxidized pyrite in LAQM: trace disseminated pyrite in SST, strongly oxidized.
80.0	85.5	LAQM	2% Lim, tr Py, Co, S_0, B_{1-2}, P_2
			Moderate, fracture controlled + slightly penetrating limonite in very weakly altered quartz-biotite monzonite. Trace fracture controlled strongly oxidized pyrite, minor quartz from 84-85.5m
85.5	92.0	ARGG:	ARGG: tr lim, tr Py, Co, S_0, P_2 75:25 SLT (SST?)
			SLT (SST?) tr Lim, tr Py, Co, S_0, P_2
			Mixture, 75:25 of ARGG: SLT (SST). Grey-black weakly graphitic argillite (ARGG) moderately-strongly fractured, with zeolite +/- feldspathic injection (?) and minor quartz

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1585

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Fracturing quite fine. Mixed with fine grained
			light grey siltstone (SLT, possible Steele
			Formation?) with weak fracture controlled
			limonite + strongly oxidized pyrite
			Local fine silica stockwork.
92.0	103	ARGL	Co, So
			Moderately graphitic, weakly foliated
			argillite
103		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1600

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)		
0	2	OVB	Overburden		
2	3	ARGG	Co, S_2	SK	
3	6	LAQM	3% Lim, 3% Py, Co, So, B_2, P_3	SK	
6	17	ARGG	Co, S_2		
17	22.5	LAQM	4% Lim, 5% Py, Co, S_1, B_2, P_3	SK	
22.5	29	ARGG	tr Lim, Co, S_3	SK	
29	34	LAQM	4% Lim, 5% Py, Co, S_3, B_2, P_2	SK	
34	38	LAQM	LAQM: 6% Lim, 6% Py, Co, S_3, B_2, P_2	SK	50:50 ARGG
			ARGG: tr Lim, Co, S_1		
38	58	ARGG	tr Lim, Co, S_3	SK	

3 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1600

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	3	ARG	Co, So SK
			Fine quartz stockwork in grey argillite
			Trace fracture controlled Pyrite
3	6	LAQM	3% Lim, 3% Py, Co, So, Bz, Pz SK
			Moderate pervasive limonite alteration, of quartz
			monzonite, strong biotite destruction, pseudomorphs
			remain 2-3% ~~fracture~~ disseminated fine grained
			Pyrite, strongly oxidized
6	17	ARGG	Co, S2 SK
			Weakly graphitic argillite, moderate
			quartz stockwork, weak foliation, trace
			limonite for 6-10m 65:35 ARGG: LQM
			from 12-14m - strong unaltered biotite content
17	22.5	LAQM	4% Lim, 5% Py → Co, S1, Bz, Pz SK
			Moderate pervasive limonite alteration, increased
			along fractures, within strongly altered
			quartz monzonite, 5-6% fine grained
			disseminated strongly - moderately oxidized
			Pyrite. Weakly developed quartz stockwork
22.5	29.	ARGG	tr Lim, Co, Sz SK
			Moderate, graphitic altered argillite, strong
			quartz stockwork, weak limonite staining
			along fine fractures.
29	34	LAQM	4% Lim, 5% Py, Co, Sz, Bz, Pz SK
			Moderate - strong pervasive limonite alteration
			of altered quartz monzonite - biotite destroyed.
			5% dissem, weak fracture controlled, moderately

3 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1600

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			oxidized Pyrite (fine grained). Strong
			quartz stockwork. Fract. controlled manganese
34	38	LAQM:	LAQM: 6% Lim, 6% Py, Co, S_1, B_3, P_2 SIS 50:50 ARGG
			ARG: tr Lim, Co, S_1
			Mixed LAQM: ARGG
			LAQM: Strong pervasive limonite alteration,
			5-7% very fine grained dissem. Pyrite - mod.
			oxidized weak quartz stockwork
			ARGG: weakly graphitic argillite, trace
			limonite along fractures
38	58	ARGG	Co, S_2, tr Lim 5K
			Moderately graphitic (increasing with depth)
			argillite, mod-strong quartz stockwork
			+ trace fracture controlled limonite
58		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1601

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3	OVB	Overburden
3	7	AQM	tr Py, Co, So
7	13.5	LAQM	3% Lim, 2% Py, Co, So, B3, Cmina B1), P3-2
13.5	22.5	ARGG	tr Lim, Co, S2 SK
22.5	28.0	LAQM	2% Lim, 3% P, C2, So, B2-3, P2
28.0	39.0	ARGG	tr Lim, Co, S3 SK
39.0	41.0	LAQM	2% Lim, 6% Py, C1, S1, B3, P1-3 SK
41.0	42.0	~~SST~~	tr Lim, 7% Py, C1, So, P1
42.0	44.0	ARG	tr Lim, C1, S2 SK
44.0	46.0	AQM	2% Lim, 12% Py, C1, S1, B3, P1 SK
46.0	52	ARGG	tr Lim, Co, S3 SK
52	61.5	LAQM	LAQM: 4% Lim, 10% Py, C1, S1, B3, P1 SK, 80:20 AQM
			AQM: tr Lim, 10% Py, C1, S2, B3, P0 SK
61.5	82.0	ARGG	tr Lim, C1-2, S2 SK
82.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1601

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3		Overburden
3	7	AQM	tr Py, Cp, Sp White (bleached?) strongly altered quartz monzonite, local remnant unaltered-mod. altered biotite. Minor boxworks after sulfides
7	13.5	LAQM	3% Lim, 2% Py, Cp, Sp, Bz (minor Bi), Pz-2 Moderate pervasive limonite alteration of strongly altered quartz monzonite. Strong alt. of biotite, local unaltered remnants. Tr-2% fine-med grained mod. oxidized pyrite. 8-10m: LAQM: AQM 70:30 +3 10³ ARGG
13.5	22.5	ARGG	tr Lim, Cp, Sz SK Weakly graphitic argillite, locally grey, mod-strong fine quartz stockwork, locally along weakly developed laminae. Weak fracture controlled limonite.
22.5	28	LAQM	2% Lim, 3% Py, Cz, Sp, Bz-3, Pz Weak, pervasive limonite alteration of mod-strongly altered quartz monzonite. Biotite mod-strongly altered, local weakly altered biotite. 2-4% med. grained-f.gr moderately oxidized disseminated Pyrite. Moderate carbonate alteration, minor qz stockwork near upper contact.
28	39	ARGG	tr Lim, Cp, Sz SK Moderately graphitic argillite, trace fracture controlled limonite. Mod-strong fine quartz

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1601

Logged by: Curl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			stockwork + fine brecciated zones
39	41	LAQM	2% Lim, 6% Py → C_1, S_1, B_3, P_{1-3} SK
			weak pervasive limonite, moderate along
			fractures, 6% dissem. fine-med grained Pyrite,
			weakly-strongly oxidized. Weak carbonate alt,
			silica stockwork. Biotite almost totally destroyed
41	42	SLT	tr Lim, 7% Py, C_1, S_0, P_1
		(CSST?)	Weakly foliated, laminated tan-buff siltstone,
			hematite along foliation/fractures. 7% dissem.
			fine grained, weakly oxidized Pyrite
42	44	ARG	tr Lim, C_1, S_2 SK
			Mod. quartz stockwork in argillite-
			weak fracture controlled limonite.
			Minor LAQM, SLT.
44	46	AQM	2% Lim, 12% Py, C_1, S_1, B_3, P_1 SK
			Weakly limonitic (pervasive, mod. fracture controlled)
			strongly altered quartz monzonite, 12% dissem.
			fine grained weakly oxidized Pyrite. Weak
			quartz stockwork, carbonate alteration.
			Logged as AQM due to weak oxidation
			of Pyrite.
46	52	ARGC	tr Lim, C_2, S_2 SK
			Weakly graphitic argillite, strong quartz
			stockwork with trace fracture controlled
			limonite
52	61.5	LAQM:	LAQM: 4% Lim, 10% Py, C_1, S_1 B_3, P_1 SK, 80:20 AQM
			AQM: tr lim, 10% P, C_1, S_2 B_3, Po SK
			Same unit, mixture of weakly-moderately

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1601

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			oxidized material and unoxidized material (80:20 LAQM). Limonite fracture
			controlled, weakly ~~disseminated~~ pervasive.
			9-11% Pyrite throughout, finely disseminated,
			unoxidized or weak-mod. oxidized. Weak
			silica stockwork, stronger in unoxidized
			zones. Weak carbonate alteration in less
			oxidized zones. Strongly altered biotite,
			weak fracture controlled manganese.
61.5	82.0	ARGG	to Lim, C1-2, S2 SK
			Moderately graphitic argillite, moderate
			quartz stockwork, weak fracture controlled
			limonite. Minor LAQM from 66-68m
82.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1602

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	1	OVB	Overburden	
1	6.5	AAM	tr Lim, Co, S_1 (bleached LAQM?)	SK
6.5	14	ARGG	tr-1% Lim, Co, S_2	SK
14	18.5	LAQM	3% Lim, 5% Py, Co/C_2, S_1, B_3, P_3	SK
18.5	22.0	ARGG	Co, S_2	SK
22.0	24.0	LAQM	4% Lim, 6% Py, C_2, S_1, B_3, P_2	SK
24.0	28.0	ARGG	tr Lim, Co, S_2	SK
28.0	31.0	LAQM	5% Lim, 10% Py, C_2, S_1, B_3, P_3	SK
31.0	34.0	ARG	Co, S_1	SK
34.0	36.0	LAQM	2% Lim, 10% Py, C_1, S_3, B_2, P_2	SK
36.0	51.0	ARGG	tr Lim, Co, S_2	SK
51.0	54.0	LAQM	3% Lim, 10% Py, C_2, S_0, B_3, P_2	SK
54.0	60.0	ARGG	Co, S_{1-3}	SK
60.0		EOH	END OF HOLE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1602

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1		Overburden
1	6.5	AQM	Tr lim, Co, S_1 SK
			Buff-white, strongly altered quartz monzonite (bleached?). No visible sulphides, but
			moderate remnant Pyrite stockwork remains.
			Biotite destroyed.
6.5	14	ARGG	tr-1% Lim, Co, S_2
			weakly graphitic argillite, weak silica
			stockwork.
			6.5-10.0m: Moderate quartz stockwork,
			1% fracture controlled limonite - grey-brown.
14	18.5	LAQM	3% Lim, 5% Py, Co-2, S_1, B_3, P_3 SK
			Moderate pervasive limonite in strongly
			altered quartz monzonite, biotite strongly altered,
			Strongly altered fine-med. grained, strongly
			oxidized Pyrites. Mod. carb alteration from
			16-18m, weak quartz stockwork.
18.5	22.0	ARGG	Co, S_2 SK
			Moderately graphitic, weakly foliated argillite,
			moderate quartz stockwork, locally finely developed
22.0	24.0	LAQM	4% Lim, 6% Py, C2, S_1, B_3, P_2 SK
			Mod. pervasive limonite altered strongly altered
			qz-monzonite, 6% mod oxidized dissem. fgr.
			Pyrite + local weakly oxidized fracture
			controlled Pyrite. Mod. fracture controlled
			manganese, mod carb alteration, weakly dev.
			silica stockwork

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1602

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
24.0	28.0	ARGG	tr Lim, Co, S_2 SK
			Weakly graphitic argillite, moderate quartz
			stockwork
28.0	31.0	LAQM	5% Lim, 10% Py + C_2, S_1, B_2, P_2 SK
			Strong-mod pervasive limonite in strongly
			altered quartz monzonite. 10% fine grained
			disseminated + fracture controlled mod-strongly
			altered Pyrite. Moderate carbonate alteration,
			weak silica alteration.
31.0	34.0	ARG	Co, S_1 SK
			Weakly foliated argillite, weak quartz
			stockwork.
34	36	LAQM	2% Lim, 10% Py, C_1, S_3 B_2, P_2 SK
			Weakly limonitic (pervasive) strongly altered
			quartz monzonite, 10% disseminated fine
			grained mod. oxidized Pyrite. Weak carbonate
			alteration (variable) strong quartz stockwork
36	51	ARGG	tr Lim, Co, S_2 SK
			Weakly graphitic weakly foliated argillite
			increasing quartz stockwork to 46m, then
			moderate, uniform stockwork to 51m. Trace
			fracture controlled limonite from 36-44m.
51	54	LAQM	3% Lim, 10% Py, C_2, S_0, B_3, P_2 SK
			Moderately limonitic strongly altered quartz monzonite
			10% fine grained disseminated, weak-moderately
			oxidized Pyrite. Moderate carbonate alteration,
			weak silica stwork from 51-52m, strong alteration
			of biotite.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1602

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
54.0	60.0	ARGG	CO, S_1-S_3 SK
			Moderately graphitic, weakly foliated argillite,
			weak silica stockworks, strong from 58-60m.
60.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1603

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1	OVB	Overburden
1	2	Q·M	tr Lim, Co, So, B1
2	4	AQM	Tr Lim, C1, So, B3
4	6	LAQM	4% Lim, 2% Py, Co, So, B3, P3
6	10	AQM	2% Lim, 1-2% Py, Co, So, B1, P3
10	11.5	ARG	C1, S1 SK
11.5	15.5	LAQM	3% Lim, 5% Py, C2, So, B3, P2
15.5	29.0	ARG-G	Co, S2 SK
29.0	33.0	LAQM	4% Lim, 6% Py, Co, So, B3, P2
33.0	58.0	ARG-G	C3, S2 SK
58.0		EOH	END OF HOLE

1 m. of excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1603

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1		Overburden
1	2	QM	Co, So, B_1, tr Lim
			Buff - white quartz monzonite (bleached QM?)
			trace frac. controlled limonite, 10% unaltered
			to weakly altered biotite
2	4	AQM	Tr Lim, C_1, So, B_2
			Similar to QM from 1-2 m, near total
			biotite destruction
4	6	LAQM	4% Lim, 2% Py, Co, So, B_3, P_3
			Med-strongly pervasive limonite alt. within
			qz-monzonite, biotite nearly destroyed, 2%
			Fine grained, disseminated Pyrite
6	10	AQM	2% Lim, 1-2% Py, Co, So, B_1, P_3
			Variable, weak-moderate limonite alt of quartz
			biotite monzonite, 15-20% unaltered to weakly
			altered biotite. 1-2% fine grained fracture
			controlled strongly oxidized biotite.
10	11.5	ARG	C_1, S_1 SB
			Grey-black argillite, weak quartz stockwork,
			carbonate alteration. Light grey material
			may be bleached argillite.
11.5	15.5	LAQM	3% Lim, 5% Py, C_2, So, B_3, P_2
			Moderate-weak pervasive limonite in strongly
			altered qz-monzonite, biotite nearly destroyed
			7% Py from 11.5-14.0m, 4% 14→15.5m, dissem.
			strongly-moderately oxidized. Strong carbonate
			alteration from 14.0-15.5m.

1m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1603

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
15.5	29.0	ARGL	Co, S_2 SK
			Mod. graphitic, weakly foliated argillite, moderate quartz stockwork. Minor light grey
			sedimentary material from 18-21m.
29.0	33.0	LAQM	4% Lim, 6% Py + Co, So, B-3, P_2
			Moderate limonite, pervasive, within strongly
			altered quartz monzonite, 5-6% fine grained,
			disseminated mod. oxidized pyrite.
33.0	58.0	ARGL	C_3, S_2 SK
			Mod. quartz + carbonate stockwork in
			fractured, weak - moderately, variably graphitic
			argillite. Strong carbonate alteration. Weak
			limonite, fract. controlled, near upper contact
58.0		EOH	END OF HOLE - "broken chain"

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1604

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	10	AQM	1% Lim, tr Py, Co, So, B3, P4
10	12	ARGG	Co, S1 70-30 SLT
12	14	AQM	tr Lim, Co, So, B3
14	23.5	ARGG	Co, S1 SK
23.5	25.5	AQM	tr Lim, Co, So
25.5	27.5	LQM	3% Lim, Co, So
27.5	30.0	LAQM	4% Lim, 6% Py, Co, So, B2-3, P2
30.0	46.0	ARGG	tr Lim, C1, S1 SIS
46.0	53.0	LAQM	4% Lim, 6% Py, C1, S1, B3, P2 SK
53.0	55.0	ARGG	Co, S2 SK
55.0	57.0	LAQM	4% Lim, 6% Py, C1, S1, B3, P2 SK
57.0	77.0	ARGG	tr Lim, C2, S1, SK
77.0	83.5	LAQM	3% Lim, 4% Py, C2, So, B3, P2
83.5	85.0	ARGG	tr Lim, Co, S2 SK
85.0	88.0	LAQM	3% Lim, 7% Py, C2, S1, B3, P2
88.0		EOH	

1m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1604

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	10	AQM	1% Lim, tr Py, Co, So, B3, P4
			Weakly, selectively limonitic strongly altered
			quartz monzonite - light brown to white.
			Local remnant biotite. Trace diss. oxidized
			Pyrite, somewhat more Pyrite boxworks
			NB. Argillite from 2-4m may be overburden.
			Fusparoidal Fragment in 0-2m sample
10	12	ARGG	Co, S1 SK
			Mixed light grey (siltstone?) + ~~dark grey~~ black,
			graphitic argillite (ARGG: SLT 70:30).
			Weak quartz stockwork.
12	14	AQM	tr Lim, Co, So, B3
			Similar to AQM from 2-10m, less limonite,
			no visible sulphides. Bleached LAQM?
14	23.5	ARGG	Co, S1 SK
			Weakly graphitic argillite, weak quartz
			stockworks throughout.
23.5	25.5	AQM	tr Lim, Co, So, B3
			Buff-white strongly altered quartz monzonite,
			no visible sulphides, minor scorodite? green
			preferential stain.
25.5	27.5	LQM	3% Lim, Co, So, B1
			Moderate pervasive limonitic stained quartz-
			biotite monzonite, ≥ 20% weakly altered-
			unaltered biotite. 30% ~~Anggite~~ Argillite
27.5	30.0	LAQM	4% Lim, 6% Py, Co, So, B2-3, P2
			Moderate pervasive limonite alteration of mod-

1m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1604

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			strongly altered quartz monzonite. 6% fine grained, disseminated Pyrite, mod. oxidized.
			Mod-strong alteration of biotites.
30.0	46.0	ARGG	tr Lim, C1, S1 SK
			Moderately graphitic, foliated argillite,
			weak-moderate quartz stockwork, trace foliation
			related limonite, weak carbonate alteration
46.0	53.0	LAQM	4% Lim, 6% Py, C1, S1, B3, P2 SK
			Moderate pervasive limonite within strongly
			altered quartz monzonite. Mod-weak altered
			biotite from 46-48m. 6-10% fine grained
			Pyrite, mod oxidized, disseminated, med.
			grained from 48-50m. Weak-moderate
			carbonate alteration, weak silica stockwork.
			30% Argg. from 48-50m.
53.0	55.0	ARGG	C0, S2 SK
			Weakly graphitic argillite, moderate quartz
			stockwork
55.0	57.0	LAQM	4% Lim, 6% Py, C1, S1, B3, P2 SK
			Moderate pervasive limonite within strongly
			altered qz monzonite, biotite strongly altered
			6% fine-med. grained pyrite, disseminated +
			moderately oxidized. Weak-moderate carbonate
			alteration, weak silica stockwork.
57.0	77.0	ARGG	tr Lim, C2, S1 SK
			Moderately graphitic argillite, weakly quartz
			stockworked. Variable carbonate alteration, strongest
			from 60-70m. Weak fracture controlled limonite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1604

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Quartz stockwork more pronounced near contacts
77.0	83.5	LAQM	3% Lim, 4% Py, C_2, S_0, B_3, P_2
			Moderate, pervasive limonite alteration of
			strongly altered qz-monzonite, biotite
			nearly destroyed, except modes. altered from
			77-78m. 2-4% fine grained, locally med
			grained, moderately oxidized disseminated
			pyrite; 82-83.5 contains 8% Pyrite. Moderate
			carbonate alteration
83.5	85.0	ARGG	tr Lim, C_0, S_2 SK
			Moderately argillic graphitic argillite,
			moderate quartz stockwork, weak fracture
			controlled limonite
85.0	88.0	LAQM	3% Lim, 7% Py, C_2, S_1, B_3, P_2
			Moderate, pervasive limonite in strongly altered
			qz monzonite, similar to unit from 77.0-83.5m.
			(probably same unit). 8% f. gr. disseminated
			Py from 85-86m; 5% med-fine grained Py
			from 86-88 m; Always moderately oxidized.
88.0		EOH	END OF HOLE "Too Tight"

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1605

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3	OVB	Overburden
3	4	AQM	Co, S1, B3
4	8	LQM	2% Lim, tr Py, Co, So, B1, P3
8	10	QM	tr Lim, tr Py, Co, S1, B1/B3, P3 60:40 AQM
10	12	QTZ	White, bull Qz vein Co
12	13	AQM	tr Lim, 1% Py, Co, So, B3, P2
13	18.5	ARGG	Co, S2 SK
18.5	20.0	LQM	1% Lim, tr Py, Co, S1, B1-2, P3 SK
20	23	LAQM	3% Lim, 4% Py, Co, So, B3, P3
23	29	ARGG	tr Lim, Co, S2 SK
29	30	SST	2% Lim, 8% Py, C2, So, P2
30	35	ARGG	Co, S2 SK
35	39	LAQM	3% Lim, 10% Py, C1, So, B3, P2
39	50.5	ARGG	tr Lim, C3/Co, S2 SK
50.5	52.0	LAQM	3% Lim, 6% Py, C1, S3, B3 SK
52.0	54.5	ARGG	Co, S3, tr Lim SK
54.5	58.0	LAQM	3% Lim, 8% Py, Co, S2, B3, P2 SK
58.0	72.5	ARGG	tr Lim, Co, S1 SK
72.5	75.0	LQM	LQM: 2% Lim, tr Py, C1, S1, B1, P2 SK 70:30 LAQM
			LAQM: 3% Lim, 8% Py, C1, S1, B3, P1 SK
75.0	76.5	LAQM	3% Lim, 10% Py, C1, So, B3, P1 80:20 AQM
76.5	77.3	ARGG	Co, S1 SK
77.3		EOH	End of hole - rods tight

0.5m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1605

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3		Overburden
3	4	AQM	Co, S_1, B_3
			Buff - white strongly altered quartz monzonite,
			possibly bleached LAQM
4	8	LQM	2% Lim, tr Py, Co, S_0, B_1, P_3
			Weak, pervasive quartz-biotite-monzonite,
			trace oxidized pyrite, disseminated, fine grained
			NB - Very limited washed sample amount,
8	10		tr Lim, tr Py, Co, S_1, B_1/B_3, P_3 60:40 AQM
			Similar lithology, "QM" contains ≈15% unaltered
		QM/AQM	biotite, "AQM" contains strongly altered
		60:40 QM	biotite. Trace strongly oxidized, ~~alte~~
			fracture controlled pyrite, trace limonite
10	12	QT2	Co
			white, boll quartz vein
12	13	AQM	tr Lim, 1% Py, Co, S_0, B_3, P_2
			Buff, strongly altered quartz monzonite, 1%
			Fine grained mod-strongly oxidized, disseminated
			Pyrite
13	18.5	ARGL	Co, S_2 SK
			Moderately graphitic argillite, moderate quartz
			stockwork
18.5	20.0	LQM	1% Lim, tr Py, Co, S_1, B_{1-2}, P_3 SK
			Weak pervasive limonite within quartz-biotite
			monzonite, 20-25% biotite nearly unaltered.
			Trace oxidized pyrite, weak qtz stockwork
20	23	LAQM	3% Lim, 4% Py, Co, S_0, B_3, P_3
			Moderate pervasive limonite in strongly

0.5 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1605

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			altered qz-monzonite, 3-5% disseminated, weakly fracture controlled strongly oxidized fine - med. grained pyrites.
23	29	ARGL	tr Lim, Co, S_2 SK
			Weakly graphitic argillite, moderate quartz stockwork, trace fracture controlled limonite
29	30	SLT	2% Lim, 8% Py, C_2, So, P_2
		(SST?)	Possible steel formation? Tan - light grey
			fine grained weakly laminated siltstone,
			8% very fine grained disseminated pyrite,
			mod oxidized. Minor LAQM + Pyrite
30	35	ARGL	Co, S_2 SK
			Moderately graphitic, weakly foliated
			argillite, moderate fine quartz stockwork
35	39	LAQM	3% Lim, 10% Py, C_1, So, B_3, P_2
			Moderate - weak limonite altered quartz monzonite,
			biotite strongly altered, 8-11% fine grained
			disseminated mod. oxidized pyrite. Weak
			carbonate alteration
39	50.5	ARGL	tr Lim, C_3/Co, S_2 SK
			Mod. graphitic argillite, moderate qz stockwork,
			decreasing with depth. Strong carbonate alteration,
			Stockwork?, From 42 - 48 m
50.5	52.0	LAQM	3% Lim, 6% Py, S_3, B_3, C_1, P_2 SK
			Mod. limonitic strongly altered quartz monzo-
			nite - pervasive limonite; 6% fine - med grained
			mod. oxidized disseminated pyrite. Weak
			carbonate alteration. Strong quartz stockwork

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1605

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
52.0	54.5	ARGG	Co, S3, tr Lim SK
			Mod. graphitic argillite, strong quartz
			stockwork, weak fracture controlled limonite
54.5	58.0	LAQM	3% Lim, 8% Py, Co, S2, B3, P2 SK
			Weak-moderate pervasive limonite alteration of
			quartz monzonite, 7-8% fine grained dissemin-
			ated + fracture controlled mod. oxidized pyrite
			Moderate quartz stockwork, possible weak
			pervasive silica alteration.
58.0	72.5	ARGG	tr Lim, Co, S1 SK
			Mod-weakly graphitic limonite, weak limonite
			alteration along fine fractures, weak quartz
			stockworks, strong from 70-72.5 m
			Calcite vein within 62-64m sample
72.5	75	LQM	2% Lim, tr Py, C1, S1, B1, P2 LQM 70:30 LAQM
			3% Lim, 8% Py, C1, S1, B2, P1 LAQM
			Weakly pervasive limonite in LQM, ≈20%
			unaltered biotite, tr. pyrite, weak carbonate
			alteration + quartz stockworks.
			LAQM: Mod pervasive limonite, 8% fine grained
			dissem. pyrite, weakly-mod oxidized, weak
			carb alteration, quartz stockwork
75	76.5	LAQM	3% Lim, 10% Py, C1, S0, B2, P1
			Moderate pervasive limonite altered quartz
			monzonite, biotite nearly destroyed, 9-12%
			disseminated fine grained weakly oxidized
			pyrite. Minor altered, unoxidized pyrite
			qz-monzonite, with pristine pyrite - part of same unit

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1605

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Minor carbonate alteration
76.5	77.3	ARGG	Moderately graphitic argillite, weak quartz stockwork Cp, Sp
77.3		EOH	End of Hole - rods tight

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1606

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	0.5	OVB	Overburden
0.5	11.0	ARGL	Co, S2 SK
11.0	15.0	LAQM	4% Lim, 10% Py, C2, So, B3, P3
15.0	32.0	ARGL	Co, S1 SK
32.0	36.0	AQM	AQM: 1% Lim, 7% Py, C2, S1, B3, P2 SK 70:30 ARG
			ARGL tr Lim, Co, S2 SK
36.0	38.0	ARGL	tr Lim, C3, S2 SK
38.0	41.0	LAQM	2% Lim, 5% Py, C3, S1, B3, P2 SK
41.0	43.0	ARGL	Co, S1 SK
43.0		EOH	END OF HOLE

0.5m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1606

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	0.5		Overburden ← Co, S3 SK
0.5	11.0	ARGA	weak - moderately graphitic strongly fractured argillite. Strong quartz stockwork, brittle fracturing
11.0	15.0	LAQM	4% Lim, 10% Py → C2, So, B3, P2 Moderate pervasive limonite within strongly altered qz-monzonite, 10% fine grained disseminated + weak fracture controlled Pyrite, mod-strongly oxidized. Moderate carbonate alteration from 12-14m
15.0	32.0	ARGA	Co, S1 SK Weakly graphitic argillite, weak quartz brittle stockwork, stronger along contacts
32.0	36.0	AQM	AQM: 1% Lim, 7% Py, C2, S1, B3, P2 SK 70:30 ARG ARGA: tr Lim, Co, S2 SK 70:30 mixture of Altered Qz Monzonite : argillite AQM: 6-7% med. grained Pyrite, weak fracture controlled + somewhat pervasive limonite + hematite alteration, Pyrite disseminated + fracture controlled, mod. oxidized. Moderate carbonate alt, weak quartz stockwork ARG: Grey (bleached) weakly foliated argillite, moderate quartz stockwork
36.0	38.0	ARGA	tr Lim, C2, S2 SIS Moderately graphitic argillite, Strong carbonate alteration (calcite stockwork), moderate quartz stockwork

0.5 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1606

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
38.0	41.0	LAQM	2% Lim, 5% Py, C_3, S_1, B_3, P_2 SK
			weak - moderate limonite, pervasive, in strongly
			altered quartz monzonite, 5% mixed very fine
			grained + med. grained; disseminated + fracture
			controlled pyrite. M. grained pyrite along fractures,
			all pyrite mod - strongly alt oxidized.
			Strong carbonate alteration, weak quartz
			stockwork.
41.0	43.0	ARGG	Co, S_1 SK
			Mod - weakly graphitic argillite, weak quartz
			stockworks.
43.0		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RL 96 1671

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.3		Overburden
2.3	4.0	LAQM	LAQM: 4% Lim, 5% Py, C2, So, B3, P3
		ARGG	ARGG: Co, S2 SK
			70:30 mixture of strongly pervasive limonitic
			strongly altered qz-biotite monzonite (LAQM)
			+ weakly graphitic argillite (ARGG) with moderate
			quartz stockworks. In LAQM, 5% fine grained, dissem-
			inated, strongly oxidized pyrite+mod. fracture
			controlled manganese, moderate carbonate alter.
4.0	6.0	ARGG	+- Lim, Co, S3 SK
			Weakly graphitic argillite, strong quartz stock-
			works, possible brecciated. Trace fracture controlled
			limonite.
6.0	12.0	LAQM	LAQM: 3% Lim, 4% P, C2, So, B3, P3 50:50 ARGG
			ARGG: Co, S3 SK
			~ Equal mixture of moderate pervasively limonitic
			strongly altered qz-biotite monzonite
			(LAQM) and weakly graphitic argillite (ARGG)
			with strong quartz stockworks. In LAQM,
			3-4% fine grained, disseminated, strongly oxidized
			pyrite + mod. carbonate alteration.
12.0	16.5	ARGG	+- Lim, C1, S1 SK
			Weakly graphitic argillite, weak carbonate
			alteration, silica stockworks. Trace fine fracture
			controlled limonite
16.5	19.5	LAQM	3% Lim, 6% Py, C1, So, B3, P1
			Moderate pervasive limonite within strongly altered
			quartz-biotite monzonite, 5-7% fine grained

1 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1671

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			disseminated pyrite, weakly oxidized - unoxidized.
			Weak carbonate alteration. Minor ARGL throughout
			with moderate quartz stockwork
19.5	22.0	LQM	LQM: 2% Lim, C_2, So, B_1 70:30 AQM
			AQM: 1% Lim, 6% Py, So, C_1, B_3, Po
			70:30 mixture LQM:AQM, consisting of
			weak-moderate, pervasive limonite within
			unaltered qz-biotite monzonite (LQM)
			and strongly altered qz-biotite-monzonite
			(AQM), sometimes moderately limonitic. Moderate
			carbonate alteration in LQM, weak in AQM.
			6% fine grained disseminated + weakly fracture
			controlled pyrite, unoxidized, in AQM.
22.0	24.5	ARGL	C_0, S_2 SK
			Weakly graphitic argillite, weak-moderate
			quartz stockwork
24.5	30.0	LAQM	2% Lim, 5% Py, C_2, So, B_3, Po
			Weak, pervasive limonite in strongly altered
			quartz-biotite monzonite. 5-6% disseminated,
			weakly oxidized to unoxidized, fine-medium
			grained pyrite. Moderate carbonate alteration,
			trace stibnite?
30.0	36.0	ARGL	ARGL: tr Lim, C_0, S_2 SK SS:45 LAQM
			LAQM: 2% Lim, 7% Py, C_1, So, B_3, Pl
			ARGL: LAQM SS:45 ARGL: Mixture of weakly-mod
			graphitic argillite (ARGL) with strong quartz
			stockwork, and weakly, pervasively limonitic
			strongly altered qz-biotite monzonite (LAQM)

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1671

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			5-8% fine grained, weakly oxidized to unoxidized disseminated pyrite in LAQM, with moderate carbonate alteration
36.0	41.5	LAQM	2% Lim, 5% Py, C2, So, Bz, Pl weak, pervasive limonite in strongly altered qz-biotite monzonite. 4-8% Pyrite, variable concentration, weakly oxidized - unoxidized, fine - medium grained. Moderate carbonate alteration.
41.5	45.0	ARGF	Co, Sz SK Moderately graphitic argillite, mod - strong quartz stockwork
45.0	49.0	LAQM	2% Lim, 9% Py, C2, Si, Bz, Po weak pervasive limonite, somewhat fracture controlled from 48-49m, moderate fracture controlled limonite elsewhere, in strongly altered qz-biotite monzonite. 7-10% fine grained, unaltered disseminated pyrite, moderate carbonate alteration, very weak quartz stockwork. Minor ARGF from 46-48m
49.0	52.0	ARGF	tr Lim, C, Sz SK Weakly graphitic argillite, strong quartz stockwork, weak carbonate alteration (stockwork?)
52	54	LAQM	1% Lim, 2% Py, C, Sz, Bz, Po SK Weak pervasive limonite (outside of silica stockwork) in strongly altered qz-biotite monzonite. Very strong silica stockwork + pervasive silica alteration. 2% fine grained disseminated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1671

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			pyrite, unoxidized: weak carbonate alteration.
54.0	56	LAQM; AQM	LAQM: 3% Lim, 8% Py_2 C_2, S_1, B_3, P_1 75:25 AQM
		75:25 LAQM	AQM: tr Lim, 10% Py_1, C_2, So_1, B_3, Po
			LAQM: AQM 75:25: Moderate limonite, pervasive
			in strongly altered qz biotite monzonite. 8%
			fine grained disseminated, weakly oxidized
			pyrite, mod carbonate alteration (LAQM)
			Intimately mixed with altered qz-monzonite
			(AQM), similar, only trace limonite, 10% unoxidized
			pyrite.
			- Hole shut down in mineralized zone.
56		EOH	END OF HOLE -s

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96 [illegible]

SUMMARY LOG DD96-85

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.1	Casing	
3.1	7.5	SHG	
7.5	12.5	SHG	60:40 SST Tr LM, C
12.5	19.0	QM	Tr Py, Tr LM
19	21.3	AQM	2% Py, Tr LM
21.3	23.5	ARG	1% Py, CC
23.5	24.0	ARGG	2% Py, S1, C
24.0	28.4	ARG	70:30 SST, C
28.4	34.0	SST	3% Py, C
34.0	36.9	SST	3% Py, Tr LM, sk S2
36.9	37.5	FT	sk, S2
37.5	39.5	SH	60:40 SST 3% Py, S2
39.5	40.9	SST	5% Qz, sk, S3 1% Py, Tr QS*
40.9	46.9	SST	75:25 ARG; 2% Py, S2
46.9	48.1	SST	S3, sk, 1% Py
48.1	54.4	SHG	S1
54.4	61.7	FT	70:30 SH:SST, S2, Bx, Tr Py
61.7	67.5	SST	Tr Py, sk S1, C1
67.5	69.4	SST	C1, S3
69.4	73.9	ARG	
73.9	75.4	ARG	60:40 SST, S2 sk Tr Py
75.4	77.2	SST	60:40 ARGG Tr Py
77.2	77.7	FT	Gr
77.7	79.3	SST	60:40 ARG 3% Py, S4
79.3	80.8	SST	2% Py, S1
80.8	81.4	SST	Tr Py, sk S4
81.4	82.2	ARG	60:40 SST
82.2	93.4	SST	70:30 ARG, S1

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LK96-85

SUMMARY LOG

Logged by: T. ANDERSON

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
93.4	94.8	SST	80:20 ARG, Bx Tr py, sk, S2
94.8	95.1	SST	sk, S4, 20% py, Bx
95.1	96.5	SST	3% py, sk, Bx, S1
96.5	97.0	FT	50:50 SST/ARG
97.0	101.0	SST	60:40 ARG, S0
101	107.2	SST	2% py, sk, S1
107.2	115.4	ARG	1% py, sk, S2, C
115.4	117.5	ARGG	Tr py, sk, S3
117.5	120.3	GW	C, sk S2
120.3	123.0	FT	ARGG, S3 1% py
123	128.9	SST	sk, S2, 1% py, C
128.9	134.1	SH	C
134.1	142.6	SST	3% py, sk S2
142.6	143.7	SST	3% py, sk, S4
143.7	148.8	SST	2% py, sk, S3 Tr As*
148.8	150.5	ARG	3% py, sk, S4 Bx
150.5	151.9	ARGG	4% py, sk, S3, Bx
151.9	155.2	SST	4% py, sk, S1
155.2	156.8	SST	3% py, Tr As, sk, S3, Bx
156.8	159.9	SST	1% py, sk, S2
159.9	163.3	SST	3% py, sk, S1
163.3	167.2	SST	3% py, sk, S4
167.2	178.2	ARGG	5% py, C, sk, S1
178.2	180.4	ARG	70:30 SS, 4% py
180.4	184.9	SST	60:40 ARG 10% py, sk, S3
184.9	187.3	ARGG	2% py, sk, 60:40 SST, S2
187.3	191.9	SST	60:40 CH, SH, sk
191.9	197.2	ARGG	1% py, sk S1, C

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD9685

SUMMARY LOG DD96 85

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
197.2	203.3	GW	60:40 SH, CC, 7% py
203.3	226.5	LST	CC
226.5	229	ARGG	<1% S2
229	229.3	GW	1% py, C
229.3	232.2	ARGG	Tr py, C
232.2	236.7	LST	CC
236.7	247.6	GW	CC, 20% py
247.6	251.3	ARG	60:35 AQM, CC, 3% py
251.3	255.8	ARGG	1% py, C
255.8	257.0	AQM	15% py 5% as, 60% QZ, SH
257.0	257.2	FT	80% SX, BX AQM
257.2	258.8	AQM	5% SX, S1
258.8	260.4	AQM	15% Py, Tr As, S1
260.4	263.5	QTZ	<1% 2% Py, SH 95% QZ
263.5	266.7	AQM	S1
266.7	268.5	FT	2% Py, S1, SST/AQM/QTZ
268.5	269.7	ARG	5% Py, S1
269.7	270.1	QTZ	95% QZ, SH, Tr py
270.1	271.9	FT	33:33:34 SST: ARG, AQM
271.9	275	SST	3% py, <1% S2
275	277.4	SST	3% py, <1% S3
277.4	282.8	SST	2% py, S2
282.8	285.4	AQM	2% py, Tr As
285.4	288	ARGG	3% py, C
288	292	SST	60:40 ARGG, 2% py, C, S2
292	293.8	ARGG	60:40 SST, C
293.8	299	ARGG	70:30 SST <1% S1, C, Tr py

T.D. OF HOLE 299 m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD 96-85

August 1 1996

Logged by: E. Ackerlund

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.05		NO core-
3.05	7.5	SHG	
			- black; soft, friable; graphite rich clay zones > than broken fissile zones; Bedding indistinct; polished surface at 7.01m sub parallel bedding;
7.5	12.5	SHG	60:40 SST C1: C2 SST, TR LM
			- grey/tan/black interbedded shale and calcareous fine grained siltstone; graphite clay zones < broken silty zones; & are strongly calcareous;
	(BD) 76°→C.A		- Bedding 76°→C.A distinct, planar, non graded;
12.19			- Tan/pale brown weathering fractures with trace limonite
	100%	FAULT	
12.5	CLAY		~~Contact sharp, @ 90°XCA~~
12.5	19.10	GM	TR PY, TR LM -
(END DAY AT 17.02m)			grey; modal plag, orthoclase, quartz; fine grained; weak porphyritic texture, irregular; bleaching / sericitization of fe phenos; secondary biotite 5-7%, as shredded laths; primary biotite 3%, as subhedral flakes;
	(J) 20°→C.A (J) 30°→C.A		
			- Fracture zones 60°→C.A & 30°→C.A, conjugate sets; 30° surfaces have strong limonite coating and 1-3mm limonite clay layers; 30° oxidation zones pervasive LM envelopes up to 4cm in HW
			- Trace pyrite, up to 2%? in fracture zones, replacing ferromagnesian minerals
			- Sericitic zones associated with LM envelopes in HW, fracture intensity increases with depth

LOKI GOLD CORPORATION

LITHOLOGY LOG

Aug. 4 96

HOLE-ID: DD96-85

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
19.0	21.3	AGM	2% py, TR LM
			- pale-dk grey; phenos altering to green sericite, soft;
			- bleached intervals <10cm width,
			- pervasive LM into groundmass near fractures
			- 2% disseminated fine grained py
			- alteration of groundmass to clays increases with depth
			- biotite altering to muscovite / sericite
21.3	23.5	ARG	C_3
			- black, v. fine grained, bedding indistinct ~75°→C.A;
		(B) 75°→C.A	- harder than shale; competent solid core;
			- trace hairline white veinlets, subparallel crude layering / bedding
			- matrix is highly calcareous;
			- 1% diagenetic py disseminated through core; occasional 1-3 mm pyrite layers (following bedding?)
23.5	24.0	ARGG	C_1, 2% py, SI
			- black/grey marbled core; marble from increased white (qtz?) veining & veinlets; thin graphite interbeds (laminae). LVA to 5%
			- weakly calcareous matrix;
			- 2-3% py as veinlets and selvages of veinlets / veins;
24.0	28.4	AAG	70:30 SST ; C_0:C_1 SST
			- black/grey layered core, black argillite interlayered with grey, softer fine grained siltstone (Steel Fm).
	BENAIT Zone		- black layering (bedding?) 65°→C.A
		(B) 65°→C.A	- graphite rich zones 26.4-26.9m (poor recovery) and 27.6-27.8m

LOKI GOLD CORPORATION

August 4/96

LITHOLOGY LOG

HOLE-ID: LD 96-8C

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
28.4	34.0	SST	C1, 3% py, S1
			- pale grey fine grained siltstone, orange to tan weathering along fracture surfaces; reacts to HCl moderately. weakly calcareous within fractures + stringers
			- easily scratched, non calcareous (?) thought steel dust calcareous. matrix;
			- hairline to 3mm swelling white sheeted veinlets pervasive
		(B) zone	in top 30cm, reduces to irregular hairline fracture fillings deeper down; composed of quartz + carbonate.
			- bedding 65° → C.A
			- 3% py as disseminated grains + blebs to 2mm size associated with white stockwork
			- top 60cm contains 20% argillite layers; trace hairline qz+gp+py laminae dispersed throughout core;
			- darker grey wispy lenses - muddy lenses form up to 5% of core;
			- increased fracturing (orange, calcareous - dolomitic) causes blocky core from 33.3 to 36.8m.
34.0	36.92	SST	TeLM 3% py, sk, Sp
			- mottling increases from black laminae and white qz stockwork randomly oriented veinlets; FORMS BLACK STOCKWORK.
			- py content decreased to 1% up to 3% near stockwork found as wispy lenses + replacement of wallrock
			- easily scratched until 36.1 to 36.3m, all core non-calcareous
			- blocky fractured core, LM + Qz on fractures.
36.92	37.54	FAULT	S2
			soft, crumbled siltstone - v. poor recovery; stockwork (qz) pervasive in 25cm before upper contact
			- contact possibly 35° → C.A (upper).

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 4/96

HOLE-ID: LO 96 85

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
37.5'	39.15	SH	60 40 SST 3% py, Sg
			- blue/grey mottled shale with silty interlayers; soft;
			- hairline white stockwork through core
Mottled appearance		(B) 55°→CA	- fractures filled by tan/orange dolomitic clay
	SST	Hairline stockwork	- 3% py as thin lenses and disseminated grains
	ARG		- bedding (?) 55°→CA defined by blk/grey wavy layering
			- convoluted bedding caused by hairline stockwork causes the
!!			mottled appearance
39.5	40.9	SST	3% Qz sx; Sg, Tr-1% Py, Tr Aspy?
			- bull qz present as disrupted lenses/veinlets
		Black qz	- crosscut by recessive hairline translucent grey qz + sulfide
HARD			veinlets; FORMS BLACK STOCKWORK; these black
FROM		Grey network	veinlets comprise grey qz + bronze py + silvery py + ? biotite →
GREY QZ NETWORK			py; GREY NETWORK - grey qz pervades matrix
			- pyrite seen replacing coarse fs detrital grains
40.9	46.9	SST	75 25 ARG TCM, 2% py, Sg
			- interbedded (turbidite) sst & cherty argillite;
			- contact zone between thick beds of sst on top
			of arg; Fault slides at 41.5m C²→CA
			- black stockwork pervasive to 42.4; at 42.4
			mixed interval of argillite material, becomes less
			- moderate hairline stockwork interval.
			- blue clay from veins through sediment, at lower
			contact now different angles.
			- core becomes broken blocky at 43.8m; argillic clay
			altered fractures, tan orange clay on sst fractures

LOKI GOLD CORPORATION

August 5 1996-

LITHOLOGY LOG

HOLE-ID: LG 96 85

Logged by: F. Arn[illegible]

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
40.9	46.9	SST	20% pyrite [illegible]
			[illegible] white stockwork
46.9	48.1	SST	S3, Tr-1% Py, Po
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
48.1	54.4	SH G	S1
			[illegible]
		(A) 20°->C.A	[illegible]
			[illegible]
			[illegible]
			[illegible]
54.4	61.65	FAULT	70-30 SST:SH, BX, S2, Tr Py, C1-C2
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
61.65	67.5	[illegible]	Tr Py, S1
			[illegible]
			[illegible]
		(B) 25°->C.A	[illegible]
			[illegible]

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LL 96-85

August 5 1996

Logged by: [illegible]

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
68.5	69.4	SSF	sk, S3, C1-C2
			strong qz (white) stockworking through [illegible] veins to 1cm thick, two sets [illegible]
			- [illegible] qz veinlets
			- [illegible] dk grey [illegible]
			- lower 0.5cm marked by clay filled broken [illegible]
69.4	73.9	AGG	
			- top [illegible]
	CA 40°	>CA	- [illegible] 40° >CA, [illegible]
			[illegible]
			- [illegible] qz veinlets sub parallel bedding -
			fracture filling or replacement?
73.9	75.4	Lap	60 [illegible] sk, S2
			- [illegible]
			disturbed/convoluted with [illegible] flaser bedding?
			pervasive white stockwork plus [illegible] of
			previous white stockwork
			- [illegible] qz veinlets [illegible] matrix
			at 74.9m, two 3cm clay gouge zones 74.7 to
			75.4, 35°-/CA
		CLAY GOUGE 10°/CA	
		CLAY GOUGE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

[illegible]

Logged by: E. [illegible]

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
75.4	77.2	SST	60% ARGR, 7% Py
			- V. fine to med. interbedded grey fg. sandstone and dk.
	ARGR		60-35% CA
	ARGR	(BD)	40% CA
			- trace bleaching, mottled texture
			- faint, 40° → CA
	SST		- trace disseminated py throughout core
77.2	77.72	FAULT	FX, GI
			- core at 45° to foliation, strong graphitic clay
			gouge, faint, planar 40° → CA
77.72	79.25	SST/ARG	60-80% SST, 5%
			- recrystallized, trace faint micro and laminated with
		HARD	siltstone
			- very hard matrix through interval. Grey micaceous
			through siltstone layers, well sorted, fg.
			- 3% py disseminated throughout, concentrated blebs
			to 5mm at contacts of qtz + clasts
			- 3.5×4.5 cm massive py rounded patch
79.25	80.77	SST	1-2% Py, Po, Sl
	SST		- fg. grey interbedded with black micaceous
			argillite
		40-50% CA	- fg. py laminations, minor mild ptygmatic
			recrystallization
			- trace [illegible]
			- faint, planar 45° → CA

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

August 6 1990

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
20.77	21.42	SST	sk, Sil, Tr py
			- hard matrix, pervasive hairline black stockwork + grey network;
			- lower contact, 21.42, convoluted, 25°->c.A white/off white qz flooded; <1% disseminated py
	SST		
	ARG 25°->c.A		- predominant fracture 40°->c.A, sericitic coating (pale green)
81.42	82.2	ARG	60:40 SST
			- interlayered/intermingled argillite, siltstone bds
82.2	93.4	SST	70:30 ARG
			- thick mixed laminated muddy siltstone with [illegible] argillite clasts, en echelon qtz vein stockwork
	(c) 35°->c.A		colored at 88.9 to 89.75 m;
			- rare dk grey/black hairline veining, does not have pervasive alt
			- bedding 35°->c.A.
93.4	94.75	SST	Bx, S2, Tr py
			- 20% convoluted qtz vein thin beds; siltstone "breccia bed (clast supported) by black stockwork;
			- <1% py associated with black stockwork
			- siltstone clasts vary from <1 to 10cm in size;
94.75	95.1	SST	Bx 2% py, Sil
			- hairline grey network stockwork
			- 1-2% py associated with network; forms py replacing black stockwork
			- hard matrix

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: 96-85

August 6 1996

Logged by: E. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
95.1	96.5	SST	Ex, 3% py, S1
			- soft matrix, ss & argillite; sst clasts brecciated by black veining
			- 3% py as patches to 5cm length and disseminated to clustered grains within the siltstone.
96.5	97.0	FAULT	
			- clay development along margins of siltstone clasts; argillite beds moderately to strongly clay altered; friable core
97.0	101	SST	60:40 ARG, S2
			- interbedded siltstone and argillite (beds up to 1.3m) of siltstone; top 1.7m brecciated by black and white stockwork; hard rock only from 97.4 to 97.54m.
			- graphitic shale 97.0 to 100 m;
101	107.2	SST	sk 2% py, S1
			- pervasive dk grey/black stockwork forming clast supported breccia
			- white stockwork seems to be replacing black stockwork
			- lower contact is 35°→c.a.
			- 1-2% py replacing muddy layers in siltstone and as blebs & disseminated grains throughout matrix
	SST		
	ARG		

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: 96-85

August 6 1996

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
107.2	115.4	ARG	C1, S1, 1% Py
	SST		- convoluted bedding/ lamellae; sections with silty/sandy matrix
	ARG		- bedding ~ 50° → C.A
	(BD 50°→C.A		- fracturing common down C.A. clay (white) filled;
	SST		- fine white discontinuous veins of fracture - qz-cb + cb
	ARG		- [illegible] with TD 1.4m thickness at bottom
	SST		of interval.
			- contact 30° → C.A. (upper); lower contact broken.
			- 1% disseminated py
115.4	117.5	ARGG	Sk, S3, Tr py
			- upper 40cm crumbly sticky graphite - HW of fault;
			- remaining argillite is silicified (hard) with pervasive white stockwork;
			- <1% py disseminated through matrix.
			- upper contact ~45° → C.A.
117.5	120.3	GW	C2, S2, Tr py
			- coarse grain size noted in sandstone; Gritty siltstone;
			- white qz stockwork common + hairline cb stockwork
			- planar bedding, 50° → C.A, dark grey & grey beds defined by % mud.
			- trace interstitial pyrite
			- breaks along graphitic lamellae and along cb stockwork cutting bedding

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LD96 85

Aug 1, 96

Logged by: F. Arbeasu

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
120.3	122.95	FAULT	Bx, Sz, Tr-1% Py
			- graphitic fault and footwall argillite; brecciated texture from deformed pervasive white qz stockwork
			- Py blebs to 8mm size found in graphitic clay zones
			- upper contact 65°→C.A with 15cm graphitic clay & argillite clasts; lower contact 65°→C.A with 6 cm graphitic clay.
122.95	128.85	SST	sk, cb-qz sk Sz, 1% Py, C1
			- fine grained grey siltstone with dk grey to black muddy lenses; mud increases with depth
			- pervasive white qz +cb stockwork decreases with depth; associated with overlying fault?
			- bedding 50°→C.A.
			- 1% disseminated py grains & wispy lenses near heavy stockwork; trace in silt beds with minor stockwork
128.85	134.11	EH	C2
			- muddy, fine grained dk grey to black; grey siltstone bed 40cm wide mid-interval; bedding 45°→C.A
			- minor hairline to mm white stockwork - carbonate
			- mirror smooth polished surfaces found 30°→C.A at 131.06m
			- carbonate coating fracture surfaces, infilling fractures
			- slow reaction to HCl from matrix

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 6 1996 HOLE-ID: DDH96 85

Logged by: E. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
134.11	142.55	SST	sk, 3% Py, Sil
			- fine grained grey siltstone; 5 to 10 cm graphitic argillite beds core broken along bedding planes 65°->c.a.
			- white qz-cb stockwork weak to moderate mm scale, strong hairline (qz + wk clay altered fs) stockwork; minor black hairline stockwork; clay fs (light yellow) infilling fractures
			- trace py in sst; <1% as wispy leaves.
			- sst brecciated where argillite lenses cluster 138.4 to 139 m.
			- py blebs and spots in lower 50cm, wispy lenses, total 2-3% py
			- appearance of coarse grained (grit) thin beds; 2 to 5cm thick;
142.55	143.70	SST	sk, 3% py, Sil
			- hairline black, white stockwork, pervasive;
			- hard matrix.
			- 3% py as lenticular blebs to 1cm & wispy leaves.
143.7	148.75	SST	sk, 2% py, Sil, 2% Py, Tr As*--
			- pervasive grey network, sst layers hard, argillite layers soft
			- wispy/lensy mud (black) within fine grained grey siltstone.
			- trace disseminated py; 1% py wispy lenses
			- bedding 40°->c.a. disrupted by crosscutting hairline fractures; carbonate coating on fractures
			- siltstone layers hard and soft, argillite soft.
			- white quartz stockwork common
			- trace - 1% fg as associated with grey stockwork;
			- possibly fg arsp needles in matrix(?)

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: D096 85

August 6 1996

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
148.75	150.5	ARG	Sil, silk, bx 3% py =.
			- pervasive white stockwork, offset by black + grey stockwork;
			- silty lenses in black argillite; pervasive disseminated py;
			- zones of heavy white silk form clast supported arg breccia;
			- hard matrix; pyrite clusters around stockworks eg.
151.85	155.15	SST	4% py, sk, Si
			- grey, laminated
			- bedding 50°->c.A
			- weak white qz sk + hair black stockwork; py blebs associated to black stockwork;
			- fine grained py pervasive through matrix; concentrated in laminae within muddy lenses;
			- 152.5-153.05 silicified, 3% py Si4
			- 5cm x 2cm py patch at 153.85m
			- black stockwork = network at 154.2m, matrix still soft.
			- massive py <5mm thick lenses - replacing black stockwork;
150.5	151.85	ARGG	4% py, bx, sk, Si2
			- thin bedded graphitic argillite and muddy siltstone; brecciated
			- pervasive thick white stockwork
			- planar bedding are parallel bedding 50°->c.A.
			- py replacing thick qz lenses and as pervasive disseminated grains within sst lenses + clasts.

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 7 1996 HOLE-ID: DD96 E5

Logged by: E. Arnold Seal

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
155.15	156.75	SST	5% py, sk, bx 3%, qz, 1% cpy, S3
			- pervasive white qz stockwork + dirty white clay - fe)
			- grey fine grained siltstone,
			- hairline grey stockwork weak + subtle.
			- fine grained py disseminated through matrix replacing
			qz stockwork and in 1mm blebs replacing detrital grains?
			- translucent glassy aspect? within hairline qz white qz stockwork
156.75	159.9	SST	1% py, sk S3
			- grey siltstone, thin bedded, 40°->c.a
			- mm scale + hairline white stockwork less intense, still
			pervasive, black stockwork as hairline veinlets cutting
			bx qz, black stockwork is fine grained py + other minerals.
			1% py in black stockwork + disseminated grains.
			- at 159.9 black stockwork -> network
159.9	163.3	SST	3% py sk S1
			- same unit black network, wider spaced qz + cb stockwork
			- increased py due to black network;
			- py as disseminated grains, micro replacement of stockwork
			and blebs to 1cm size in muddy intervals
163.3	167.2	SST	S1, 3% py, sk
			- hard matrix, black stockwork pervasive, mm scale.
			- py associated with stockwork;
			- no white stockwork until veining 1m from contact with argillite.
			- py as disseminated grains blebs replacing grains and within
			black stockwork.

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 7 1996 HOLE-ID: DC 96-85

Logged by: E. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
167.2	178.15	ARGG	C1, 5% py, S1
			- black, fine grained, laminated silty graphitic argillite;
			- pervasive mm scale white stockwork in upper 40cm; hairline wide spaced white stockwork through remaining interval.
			- fine grained sst beds to 7cm thickness;
			- bedding 60°-70° C.A in argillite; 65°-70° C.A in sandy siltstone. * 5mm
			- trace fine grained disseminated pyrite and as thin laminae disrupted by qz veinlets; also as mm blebs.
			- increased graphite laminae in last 0.7m; C.A 20° polished surfaces
178.15	180.35	ARG	70:30 ss:, 4% py
			- dk grey sandstone beds within silty graphitic argillite;
			- bedding displaced by crosscutting hairline black veinlets;
			- py disseminated through matrix and as 1-4mm blebs in the sandstone.
180.35	184.85	SST	10% py, SH 60 40 arg.
			- thin interbedded ss/sst/argillite graphitic beds; bedding 65°-70° C.A
			- hard matrix - pervasive qz flooding of matrix
			- pervasive white qz stockwork, brecciates argillite beds, veinlets through cherty units
			- py beds to 7mm thickness within argillite; wispy py replacing stockwork veining

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 7 1996 HOLE-ID: DD96-85

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
184.8	187.25	ARGG	2% py, sk, 60:40 sst, Sz
			interbedded sandy silt and argillite graphitic laminae;
			white qz stockwork pervasive in argillites and becomes
			pervasive in sst in last 50cm.
			- pyrite disseminated through matrix, more common in
			argillite (diagenetic?)
187.25	191.9	SST/CH	60:40 CH, Sy
			- hard matrix, pervasive white qz stockwork; silicious (cherty) looking matrix
			- 35% muddy laminae / shale-mud lenses) ↳ Greyish.
			- bedding plane 65°→C.A
			- 190.4 - 191.9 start getting graphite clay zones, brecciated
			by white clay altered stockwork.
			- pale yellow stockwork ([redacted]te), fracture infillings at
			191.7m, footwall to [redacted]-clay zone.
191.9	197.15	ARGG	1% py, S1, C1
			- broken, blocky strongly graphitic argillite - angular platy
			breaking; bedding 80°→C.A, planar; m.
			- upper 40cm pervasive white quartz stockwork + hairline cb veining
			- trace disseminated py through argillite - forms
			discontinuous wispy network through bedding.
			- graphite content decreases with depth; core more
			competent; start getting sandy silt beds at
			196.5m.
			- lower contact brecciated by stockwork; remnant
			contact implies 85°→C.A.

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 7 1996 HOLE-ID: DD96-E5

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
197.55	203.3	GW	C2, 60:40 SH, 7% py.
			- calc dk grey to black silty shale interbedded with fine grained fsp sandstone; shale beds thick at top.
			- bedding 65°-70° C.A.; planar to wavy.
			- slow reaction to HCl from shale matrix; C2 in sandstone.
			- hairline cb veinlets throughout core; hairline qz veinlets cutting calcareous sandy beds, dissipitate into shaly beds.
			- 7% py disseminated through shale and as intergular blebs replacing sandy clasts, pervasive py replacement of sandy matrix at contacts with shale beds
			- start getting calcite-qz veinlets to 5mm size in last metre.
203.3	226.5	LST	C3, S1
			- bedding 55°-70° C.A.
			- dk grey, highly calcareous matrix;
			- pervasive mm to hairline scale cb stockwork
			- core has mottled texture from entire sized limey material.
			212.5-212.55 white qz path on side of core brecciated clasts 1st fragments.
			- 212.4-213.5 - sticky clay-fault gouge 75°-70° C.A
			- 225.98 m 1.5cm white quartz vein, 75°-70° C.A cutting bedding

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 8 1996

HOLE-ID: LO 96-85

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
226.5	229	ARGG	SR
			· 1cm to 15cm silty interbeds, rare;
			competent core, black, fine grained
			- planar bedding 45°-70° A.
			· core breaks along graphite rich layers, breaks across bedd.
			- breaks along hairline ck veinlets
			pervasive qz stockwork (white) through siltstone; soft matrix
			· thicken, widen, more frequent in argillite.
229	229.3	GW	1% py, C1
			· green brown clay altered matrix brecciated argillite laminae.
			- 1% py as very fine grained in matrix siltstone; trace py in bed argg
			· 2cm pea green clay gouge 60°-70° A at 229.25
229.3	232.2	ARGG	C1, Tr py
			- thin clay altered GW and grey sst interbeds;
			- top 25cm in contact with GW is pervasively qz hairline
			stockwork brecciating argillite; graphite → clay.
			- <1% diagenetic py blebs to 4mm lower interval.
			- hairline ck stockwork throughout.
			- upper contact broken, lower contact marked by 7cm
~~235~~			lithic GW bed.

LOKI GOLD CORPORATION

August 8 1996

LITHOLOGY LOG

HOLE-ID: DDH 95-85

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
232.2	236.7	LST	C_2
			· dk grey muddy limestone, bedding 40°->C.A, wavy, wk brecciated
			· same unit as 203.2m.
236.7	247.6	GW	C_2, 1% Py
			· grey, fine grained matrix, lithic (chert) fragments to 6mm,
			poorly sorted, coarse and fine layers; calcareous
			· large (16cm) siltstone clast with wk dive block stockwork
			247.8-243.84 muddy, weakly calcareous bed; 5% lithic
			fragments of siltstone.
			243.84-247.6 blebs and spots of py to 2cm
			size; also disseminated through matrix Total 1% py
247.6	251.25	ARG	66.35 AGM, C_2:C_1, 1% Py
			mm to 8cm argillite interbeds in upper 1.5m, cm scale
			GW interbeds in last 4m; AGM drills in last 2m;
		AGM →	- green clay altered fine grained subhedral/euhedral granodiorite.
			3% interstitial py disseminated - AGM - weakly oxidizing (fracs)
251.25	255.8	ARG	C_1, 1% Py
			- soft, black, graphitic clay developed argillite, bedding
			60°->C.A.; platy breaking
			· minor hairline qtz veining along bedding
			- 1% fine grained disseminated py disseminated.
			- lower contact marked by minor polished surface 75°->C.A

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 14 1996 HOLE-ID: DD 96 E5

Logged by: E. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
255.8	256.95	AGM	20% sx, S4, 40% QTZ
			dark grey sulfide rich strong argillic altered
			intrusive; possibly multiple thin sills interlayering
			fine grained thin bedded sediments.
			last 25cm have graphitic clay altered sediments/intrusive
			with stockworked AGM rounded clasts. FAULT ZONE.
256.95	257.2	FAULT	20% sx, S4
257.2	258.75	AGM	5% sx (py + arsp.?), S1
			pale green/buff altered GM; soft gouge/ass; % cc;
			disseminated specks;
			- minor dk grey qz + py veinlets, forms thin zones of stockwork
258.75	260.35	AGM	15% py, Tr as
			soft clay altered dk grey gouge/ass
			15% pyrite + minor arsenopyrite
			clay healed fractures, brecciated core; white qz stockworks
			259.7 - 260m
260.35	263.5	QTZ	S4, 2% py, sk, 60-70% QTZ
			granular vuggy white quartz veins as stockwork &
			massive quartz zones with brecciated grey fragments
			- 2% bleby py disseminated through quartz
			- quartz is glassy vuggy & sugary textured.
			- 3cm section of quartz stockworked graphitic argillite/shale
			at 261.9m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD 96-85

Logged by: E. Anderson

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
265.5	266.7	AQM	S1. S2
			pale green biotite weathering, fg biotite, gsoundmass
			crackle array
			· mm to cm white qz veining forms stockwork throughout
			core,
			· black hairline 1 mm swelling w/ right, also found no
			sx associated with them.
266.7	268.49	FT	SST/ AQM / QTZ Bx , 2% Py, S1
			clast supported angular fragmental lithic breccia clasts to
			10cm are comprised of S1 AQM and vuggy QZ VN.
			30cm crumbled rock zone at ±267.75 may be
			the shear that caused brecciation, lower contact 30°
			to C.A.
			· Varying amounts of sx dependent on rock fragments.
268.49	269.7	AQG	±1% py
			thin (5-10 cm) AQM sills, crackle fractured, within
			blebby py bearing black argillite; sill/sed. contacts
			30° -> C.A
269.7	270.1	QTZ	S4, 90% QZ
			Massive vuggy white quartz with brecciated lithic
			fragments, more quartz than ±266.7m
270.1	271.85	FTi	Ti - 1% py*
			narrow fracture, clay healed, strong clay altered
			dk grey matrix / groundmass; lithic fragments
			to 10cm size

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96 85

August 15 1996

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
271.85	275	SST	3% py, sk, S3
	(277.4)		pale grey, fine grained matrix, mm scale qz stockwork.
			- py disseminated grains & mm blebs;
			- argillite clasts to 5cm size, not interbeds
			- becomes strongly qz stockworked at 273.42m.
			- clayey zone (shears) 45°->C.A at 274.0 to 275 m.
275	277.4	SST	S3, 3% py
			- hard to scratch pale grey siltstone; short softer intervals
			- quartz pervasive through matrix, as above
277.4	282.77	SST	2% py, S2
			- majority scratches, minor hard intervals (S4)
			- py disseminated grains & specks
			- black argillite with white qz stockwork
			interbeds + brecciated clasts to 5 cm size. starts at
			279.06m
282.77	285.4	AQM	0% py, aspy
			pale green / tan - buff groundmass
			- porphyritic texture gone.
			- occasional white quartz veins to 1cm size,
			pyrite rich margins. 45° to 60° -> C.A

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: [illegible]

Logged by: [illegible]

From (m)	To (m)	Rec (m)	RQD [illegible]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]				/	
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]	[illegible]			/	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					C_1	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	/			C_2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			C_2	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			C_1	
12	14	[illegible]	[illegible]	[illegible]	[illegible]	P_1			/	
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	P_1			/	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	P_1			/	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		P_1			/	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	P_1			/	
21.3	[illegible]	[illegible]	[illegible]		/	/			[illegible]	/
23.3	[illegible]	[illegible]	[illegible]	/	[illegible]	[illegible]			[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	/	/	/			/	/
[illegible]	[illegible]	[illegible]	[illegible]		/	/			[illegible]	/
27.5	[illegible]	[illegible]	[illegible]	/	/	/			/	/
28.4	[illegible]		[illegible]	/	3	[illegible]			/	/
[illegible]	[illegible]		[illegible]	/	[illegible]	[illegible]			[illegible]	/
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]	[illegible]			[illegible]	/
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			/	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			/	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]	/				[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]	[illegible]			/	S2
[illegible]	[illegible]	[illegible]	[illegible]	/	[illegible]	[illegible]	/			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	Tr		[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	Tr	[illegible]	[illegible]	/			S2

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 5/96 HOLE ID 96-55

Logged by: D. Vanderwood

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	Ca CO	Silica Influx
42.9	44.9	1.98	0.48	Tr	2	Fo	/	/	/	S2
44.9	46.9	1.84	0.12	Tr	2	Po				S2
46.9	48.1	1.12	0.52	/	1	Po				S3
48.1	49.6	1.39	0.56		/					S1
49.6	50.7	0.96	0.0							S1
50.7	52.7	1.90	0.0							S1
52.7	54.4	1.23	0.12		/				/	S1
54.4	56.4	0.82	0.0		Tr	Po			C1	S2
56.4	57.3	0.66	0.0		Tr	Po			C1	S2
57.3	59.0	1.43	0.47		Tr	Po			C1	S2
59.0	59.8	0.55	0		Tr	Po			C1	S2
59.8	61.65	1.63	0.21		Tr	Po			C1	S2
61.65	63.65	1.85	1.45		Tr	Po			C1	S1
63.65	65.53	2.03	1.15		Tr	Po			C1	S1
65.53	66.0	0.48	0.46		Tr	Po			C1	S1
66.0	67.5	1.46	1.25		Tr	Po			/	S1
67.5	69.4	2.13	1.27		0				C1	S3
69.4	71.4	1.83	1.36		0				/	/
71.4	73.3	2.05	0.77		0					/
73.3	73.9	0.60	0.47		0					/
73.9	75.4	1.59	0.32		0					S2
75.4	77.2	1.67	0.47		Tr	Po				/
77.2	77.72	0.56	0		0					/
77.72	79.25	1.39	0.0		2	Po				S4
79.25	80.73	1.48	0.0		2	Po				S1
80.77	81.42	0.67	0.0	/	Tr	Po	/	/	/	S4

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LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 5/96 HOLE-ID: DDH 96-85

Logged by D Vaillancourt Page 2 of 2

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
81.42	82.2	0.74	0.17	/	0	/	/	/	/	/
82.2	84.05	1.89	1.20		0					S_1
84.05	86.05	1.92	0.85		0					S_1
86.05	88.05	2.12	1.14		0					S_1
88.05	89.75	1.60	0.76		0					S_3
89.75	91.75	1.96	1.17		0					/
91.75	93.4	1.71	1.08		0	/				/
93.4	94.75	1.20	0.90		Tr	P_o				S_2
94.75	95.1	0.35	0.32		2	P_o				S_4
95.1	96.5	1.14	0.93		3	P_o				S_1
96.5	97.0	0.45	/		0	/				/
97.0	99.0	1.99	0.61		0	/				S_2
99.0	100.5	1.33	0.56		0	/				S_2
100.5	102.0	1.5	0.87		2	P_o				S_1
102.0	104.0	1.99	0.38		2	P_o				S_1
104.0	105.2	1.29	0		2	P_o				S_1
105.2	107.2	2.11	0.26		2	P_o			/	S_1
107.2	109.2	1.47	0		1	P_o			C_1	S_1
109.2	111.2	2.20	1.22		1	↓			C_1	S_1
111.2	112.4	1.11	1.10		1	↓			C_1	S_1
112.4	113.7	1.22	0.52		1	↓			C_1	S_1
113.7	115.4	1.79	0.89		1	P_o			C_1	S_1
115.4	115.8	0.36	0		Tr	P_o			/	S_0
115.8	117.5	0.68	0.13		Tr	↓			/	S_4
117.5	119.0	1.45	0.11		Tr	↓			C_2	S_2
119.0	120.3	1.37	0.45	/	Tr	P_o	/	/	C_2	S_2

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 6/96 HOLE-ID: DDH 96-85

Logged by: D. Vaillancourt

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
120.3	122.3	1.51	0.57	/	1	Po	/	/	/	S3
122.3	122.95	0.77	0.39	↓	1	Po	↓	↓	/	S3
122.95	124.95	1.84	1.30	↓	1	Po	↓	↓	C1	S2
124.95	126.95	2.03	0.88		1	Po			C1	S2
126.95	128.85	1.81	1.24		1	Po			C1	S2
128.85	130.85	2.05	0.50		0	-			C2	/
130.85	132.0	1.22	0.21		0				C2	/
132.0	134.11	1.87	0.59		0	-			C2	/
134.11	136.11	2.02	0.95		2	Po			/	S2
136.11	138.11	2.01	0.49		2	Po				S2
138.11	140.11	1.43	0.26		3	Po				S2
140.11	141.11	0.98	0.76		3	Po				S2
141.11	142.55	1.47	0.71		3	Po				S2
142.55	143.7	0.92	0.28		3	Po	/			S4
143.7	145.7	1.64	0.83		2	Po	Tr*			S3
145.7	147.7	1.73	0.52		2	Po	Tr*			S3
147.7	148.75	0.78	0		2	Po	Tr*			S3
148.75	150.5	1.24	0.38		3	Po	/			S4
150.5	151.85	1.29	0.18		4	Po	/			S1
151.85	153.85	1.61	0.51		4	Po	/			S1
153.85	155.15	1.11	0.28		4	Po	/			S1
155.15	156.75	1.53	0.82		3	Po	Tr			S3
156.75	158.60	1.67	0.34		1	Po	/			S2
158.60	159.90	1.39	0.59		1	Po	/			S2
159.90	161.90	2.04	0.51		3	Po	/			S1
161.90	163.30	1.39	0.18	/	3	Po	/	/	/	S1

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 7/96

HOLE-ID: DDH96-85

Logged by: T. Tribe

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
163.30	164.0	082	0.77	/	3	Po		/	/	S4
164.0	165.60	1.53	0.89		3	Po			/	S4
165.60	167.20	1.50	0.59		3	Po			*	S4
167.20	168.0	0.83	0.43		5	↓			C1	S1
168.0	170.0	1.89	1.11		5	↓			C1	S1
170.0	172.0	1.85	0.62		5	↓			C1	S1
172.0	174.0	2.00	0.77		6	Po			C1	S1
174.0	175.6	1.48	0.44		5	↓			C1	S1
175.6	177.6	2.01	0.95		5	↓			C1	S1
177.6	179.60	1.67	0.22		5	↓			C1	S1
179.60	180.35	0.72	0.26		4	↓			/	/
180.35	181.25	0.95	0.34		10	↓			↓	S3
181.25	183.25	2.02	0.69		10	↓			↓	S3
183.25	184.8	0.91	0.21		10	↓			↓	S3
184.8	185.45	0.65	0.25		2	↓			↓	S2
185.45	187.20	0.82	0		2	Po			↓	S2
187.20	189.20	1.96	0		/	/			↓	S4
189.20	190.35	1.10	0.46		/	/			↓	S4
190.35	191.90	1.22	0.42		/	/			/	S4
191.90	192.50	0.64	0		1	Po			C1	S1
192.50	194.50	1.91	0.43		1	Po			C1	S1
194.50	196.50	1.82	0.79		1	Po			C1	S1
196.50	197.15	0.76	0.30		1	Po			C1	S1
197.15	198.15	0.72	0.55		7	Po			C2	0
198.15	199.5	1.41	1.21		7	Po			C2	[illegible]
199.5	200.0	1.2	0.15		7	Po			[illegible]	[illegible]

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 7/96 HOLE-ID: DDH96-85

Logged by: _____

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
200.1	202.1	0.92	0.82	✓	7	Po	✓	✓	C2	✓
202.1	203.3	1.13	0.8		7	Po			C2	✓
203.3	205.3	1.87	1.67		10	✓			C3	✓
205.3	207.3	1.95	1.22		0				C3	
207.3	209.3	1.98	1.31		0				C3	
209.3	211.3	1.79	0.71		0				C3	
211.3	213.3	1.88	0.84		0				C3	
213.3	215.3	1.93	0.93		0				C3	
215.3	217.3	1.99	1.99		0				C3	
217.3	219.3	1.86	1.83		0				C3	
219.3	221.3	1.97	1.85		0				C3	
221.3	223.3	1.88	1.65		0				C3	
223.3	225.3	1.90	1.37		0			✓	C3	✓
225.3	226.5	1.24	0.88		0				C3	✓
226.5	228.5	1.66	1.06		0	✓			0	S2
228.5	229.0	0.5	0.28		0	✓			0	S2
229.0	229.3	0.3	0.14		1	Po			C1	✓
229.3	230.2	0.8	0.23		PT	Po			C1	
230.2	232.2	1.84	1.00		1	Po			C1	
232.2	233.7	1.43	1.12		0	✓			C3	
233.7	235.2	1.37	0.76		0	✓			C3	
235.2	236.7	1.58	1.06		0	✓			C3	
236.7	238.7	1.84	1.44		1	Po			C2	
238.7	240.8	1.97	1.71		1	Po			C2	✓
240.8	242.8	2.08	2.08		1	Po			C2	✓
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 8/96

HOLE-ID: DDH96-85

Logged By:

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
243.85	245.85	1.61	1.39		2	Po			C2	
245.85	247.7	1.67	1.67		2	Po			C2	
247.7	249.4	0.78	0.63		0				C2	
249.4	250.2	0.74	0.57		3	Po			C1	
250.2	251.25	1.05	0.98		3	Po			C2	
251.25	253.25	1.40	0.27		1	Po			C1	
253.25	255.25	1.92	0.28		1	Po			C1	
255.25	255.8	0.57	0		1	Po			C1	
255.8	257.4	1.67	0.62		15	Po	5			S4
257.4	259.4	1.76	1.04		9	Po	2			S1
259.4	261.49	2.09	1.41		18	Po	Tr			S4
261.49	263.24	1.52	0.56		2	Po				S4
263.24	264.24	1.01	0.37		0					S1
264.24	265.79	1.60	0.90		0					S1
265.79	266.70	0.97	0.97		0					S1
266.70	268.49	1.76	1.04		2	Po				S1
268.49	269.61	0.91	0.28		5	Po				S1
269.61	271.85	2.04	1.16		Tr	Po				S4
271.85	273.42	1.40	0.91		3	Po				S2
273.42	275.06	1.38	0.27		3	Po				S3
275.06	277.06	1.84	0.47		3	Po				S3
277.06	279.06	1.87	0.96		2	Po				S2
279.06	281.04	2.15	1.13		2	Po				S2
281.04	282.93	1.72	1.04		2	Po				S2
282.93	284.41	0.98	0.98		2	Po	Tr			S2

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 15 1996. HOLE-ID: DD96-85

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
285.4	288	ARGG	3% py, Cl
			black graphitic argillite, bedding indistinct
			- core breaks along semi-planar mirror polished surfaces, 30° to 40° → C.A.
			- minor calcite veinlets / fracture fillings.
288	292.03	SST	60:40 ARGG 2% py, Cl, Sa
			- qz content increasing with depth, pervasive white qz veinlets / stockwork at 290.03 to 292.03 m.
			- py concentrates within qz stockwork, 4% disseminated through ARG matrix, 5% where stockworking abundant
			- occasional massive py lenses to 8mm size, replacement of argillite beds or diagenetic py? ← Yes.
292.03	293.75	ARGG	60:40 SST, Cl(SST)
			- interbedded / interlaminated SST / ARGG.
			- very little qz stockwork; calcite veining increased.
293.75	299.01	ARGG	70:30 SST, sk, Cl(SST) <1% py, Sl
			- dominantly thin bedded argillite, graphitic zones noted by polished surfaces where core breaks.
			- siltstone beds have pervasive white qz stockwork.
			- short intervals of ARG with pervasive stockwork
			- SST crackle fractured & clay / quartz healed from 294.03 to 295.57, lower contact marked by 3cm clay argillite band 75° → C.A; hard matrix;
			- qz content greater in stockworked SST zones.
			- bedding in argillite 75° → C.A

T.O.H. August 15/96

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 8/96 HOLE-ID: DDH96-85

Logged by: _____

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
285.40	287.39	1.81	0.15	/	3	Po	/	/	C1	/
287.39	288.37	0.85	0	↓	3	Po	↓	↓	C1	S2
288.39	290.03	1.45	0.62	↓	5	Po	↓	↓	C1	S2
290.03	292.03	1.96	0.71	↓	5	Po	↓	↓	C1	S2
292.03	294.03	1.67	0.20	↓	0	+	↓	↓	C2	S1
294.03	295.97	1.54	0.41	↓	Tr	Po	↓	↓	C1	S1
295.97	297.43	1.33	0.42	↓	Tr	Po	↓	↓	C1	S1
297.43	299.01	1.57	1.35	/	Tr	Po	/	/	C1	S1
E.O.H										

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1607

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3,5	ARG	Co, S_2
3,5	12.0	LAQM	3% Lim, 9% Py Co/C_3, S_4, B_3, P_3 SK
12,0	14,5	ARG	Co, S_2 SK
14,5	22,0	LAQM	3% Lim, 8% Py, Co-3, S_3, B_3, P_2 SK
22,0	40,0	ARG	C_3, S_1 SK
40,0		EOH	END OF HOLE

0,5 m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1607

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.5	ARG	Co, S_2
			Moderate quartz stockwork, fine ~~+semi-brittle-ductile~~ + weakly pervasive silicification in weakly foliated argillite.
3.5	12.0	LAQM	3% Lim, 9% Py, Co/C_3, S_1, B_3, P_2 SK
			Moderately pervasive limonite alteration in strongly altered qz-monzonite. No visible biotite.
			7-12% fine grained, strongly oxidized disseminated pyrite, med. grained from 10-12 m.
			Strong quartz stockwork from 8-10m (slightly reduced limonite) weak elsewhere. Strong
			carbonate alt. from 10-12m, 25% ARG. from
			6-10 m.
12.0	14.5	ARG	Co, S_2 SK
			Weakly graphitic argillite, moderate brittle
			quartz stockwork
14.5	22.0	LAQM	3% Lim, 8% Py, Co 0-3, S_3 B_3, P_2 SK
			Mod-strongly limonitic altered quartz
			monzonite, strong fracture controlled limonite
			6-10% fine grained, locally med grained disseminated + minor fracture controlled pyrite.
			mod-strongly oxidized. Strong quartz
			stockwork, weak near lower contact, strong
			carbonate alteration near lower contact
			20.5-21.0m: ARG, mod. quartz stockwork
22.0	40	ARG	C_3, S_1 SK
			weakly graphitic argillite, weak, fine quartz
			stockwork, strong carbonate alt. from 22-36 m.

0.5 m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1607

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			due to calcite veining. Increase graphite w. depth
40.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1609

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4.0	AQM	AQM: Tr Lim, 1% Py, Co, S3, P2, SK, 50/50 ARGG
			ARGG: Co, S2 SK
		[redacted]	
4.0	13.5	LAQM	4% Lim, 6% Py, Co, S2, B3, P3 SK
13.5	26.0	ARGG	tr Lim, C3, S1 SK
26.0		EOH	End of hole - "tight hole"

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1609

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4.0	AQM:	AQM: Tr Lim, 1% P_2, Co_1S_3 SK
		ARGG	ARGG: Co_1S_2 SK
		50:50	50:50 ratio of altered qz-monzonite (pors. bleached LAQM) and argillite (overburden?)
			AQM: 1% mod. oxidized fine grained disseminated pyrite, tr limonite, strongly developed quartz stockwork.
			ARGG: weakly graphitic, moderate quartz stockwork (brittle)
4.0	13.5	LAQM	4% Lim, 6% P_3, Co_1S_2, B_3 SK
			B Moderate, pervasive limonite alteration, increasing with depth, of strongly altered qz-monzonite, biotite destroyed. 3-8% fine grained disseminated pyrite, increasing concentration with depth. Considerable fracture controlled pyrite from 8-12m, all pyrite mod-strongly oxidized. Variable quartz stockwork, strong from 4-6m.
13.5	26.0	ARGG	tr Lim, C_3S_1 SK
			Weakly graphitic argillite, weak quartz stockwork, strong along upper contact. Strong, brittle, Fracture controlled carbonate alteration from 18-26m. Trace localized fracture controlled limonite.
26.0		EOH	END OF HOLE - "Tight hole (!)"

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1610

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	2	OVB	Overburden	
2	3	ARG	tr Lim, Co, S_2	SK
3	7	LQM	3% Lim, Co, So, B_{1-2}	
7	10	ARGG	tr Lim, Co, S_3	SK
10	24.5	LAQM	5% Lim, 9% Py, C_2, S_1, B_3, P_3	SK
24.5	31.5	ARG	tr Lim Co, S_4	
31.5	34.0	LAQM	3% Lim, 8% Py, C_2, S_1, B_3, P_3	SK
34.0	44.0	ARGG	tr Lim, C_2, S_1	SK
44.0		EOH	END OF HOLE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96 1610

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	3	ARG	tr Lim, Co, S_2 SK
			Argillite, moderate quartz stockwork along
			brittle fine fracture system, trace fracture
			controlled limonite
3	7	LQM	3% Lim, Co, S_0, B_{1-2}
			Moderate, pervasive limonite in quartz-biotite
			monzonite. Biotite weakly altered, moderately
			so from 6-7m. No discernable pyrite
7	10	ARGG	tr Lim, Co, S_3 SK
			Weakly graphitic argillite, strong quartz
			stockwork, trace fracture controlled limonite.
10	24.5	LAQM	5% Lim, 9% Py, C_2, S_1, B_2, P_3 SK
			Med-strong limonite, pervasive, within
			strongly altered quartz monzonite. Minor remnant
			biotite, med. altered. 6-12% fine grained dissemin-
			ated pyrite, locally fracture controlled, partic-
			ularly from 20-22m. Med grained pyrite from
			16-20m. Moderate, variable quartz stockwork,
			weak finely developed quartz stockwork.
			30% ARGG from 14-16m.
24.5	31.5	ARG	Co, S_4, tr Lim SK.
			Very strong quartz stockwork in brecciated
			argillite. Brittle fracturing, weak fracture
			controlled limonite. Minor LAQM from 28-30m
31.5	34.0	LAQM	3% Lim, 8% Py, C_2, S_1, B_2, P_3 SK
			Moderate pervasive, stronger fracture controlled
			limonite within strongly altered quartz monzonite

5m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1610

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Biotite nearly destroyed. 6-10% fine grained
			disseminated + med. grained fracture controlled
			pyrite, strongly oxidized. Weak coarse
			quartz stockwork, moderate carbonate al-
			teration
34.0	44.0	ARGG	tr Lim, C_2, S_1 SK
			Weakly graphitic, weakly foliated argillite.
			Weak brittle fracture controlled quartz
			stockwork, mod carbonate alteration (stwork?)
			Trace fracture controlled limonite
44.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1611

Logged by: Carl Schulte

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	6	LQM	3% Lim, C_2, So, B_1
6	22.5	LAQM	4% Lim, 9% Py, C_2, So, B_3, P_3
22.5	28.5	ARGG	tr Lim, Co, S_3 SK
28.5	32.0	LAQM	3% Lim, 4% Py, Co, So, B_3, P_3
32.0	74.0	ARGG	tr Lim, C_3/Co, S_1 SK
74.0		END	OF HOLE

* 2m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1611

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		overburden
2	6	LQM	3% Lim, C_2, So B_1
			Weak-moderate, pervasive limonite within
			quartz-biotite-monzonite, weakly altered to
			unaltered. 15% weakly altered biotite
6	22,5	LAQM	4% Lim, 9% Py, C_2, So, B_3, P_3
			Moderate, pervasive limonite, strong limonite
			along fractures, within strongly altered
			quartz monzonite, 8-12% disseminated +
			minor fracture controlled pyrite, fine grained,
			locally med. grained, strongly oxidized. Pervasive
			mod-strong carbonate alteration.
			40% ARGL from 6-8 m
22,5	28,5	ARGL	tr Lim, C_0, S_3 SK
			weakly graphitic ~~limonitic~~ argillite, strong quartz
			stockwork along brittle fractures, trace
			vein associated limonite
28,5	32,0	LAQM	3% Lim, 4% Py, Co, So, B_3, P_3
			Moderate, pervasive, limonite alteration of strongly
			altered quartz monzonite. 4% fine, locally
			med. grained disseminated pyrite, strongly
			oxidized. Minor fracture controlled manganese
32,0	74,0	ARGL	tr Lim, C_3 / Co, S_1 SK
			Weakly graphitic argillite, med-strong graphite
			from 50-74m, strong carbonate alteration
			(brittle fracture related stockwork?) from 38-52m,
			weak quartz stockwork. Trace fine fracture
			controlled limonite from 32-50m, and 68-74m.
74,0m		EOH	END OF HOLE

*2 m. excavation

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96 1612

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	2	OVB	Overburden	
2	3.5	LQM	2% Lim, C_3, S_1	
3.5	8.0	ARG	tr Lim, C_0, S_3	SK
8.0	15.5	LAQM	3% Lim, 10% P_y, C_2, S_2/S_0, P_3	SK
15.5	22.0	LQM	2% Lim, C_0, S_0, B_1	
22.0	41.5	LAQM	3% Lim, 2-9% P_y, C_2, S_0, B_{2-3}, P_1	
41.5	46.0	ARG	tr Lim, C_1, S_3	SK
46.0	49.5	AQM	1% Lim, 5% P_y, C_2, S_0, B_3, P_1	
49.5	60.0	ARG	tr Lim, C_3, S_0	
60.0		EOH	End of Hole	

* 2 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1612

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	3,5	LQM	2% Lim, C_3, S_1, B_{2-1}
			Moderate, pervasive limonite within quartz-
			biotite monzonite. Enhanced fracture controlled
			limonite. Strong pervasive carbonate alteration.
			Weakly altered biotite
3,5	8,0	ARG	tr Lim, C_0, S_3 SK
			Strong quartz stockworks along brecciated
			(brittle) argillite. Fine fracture system,
			separate from this, associated with trace limonite
			Minor LAQM from 6-8m
8,0	15.5	LAQM	3% Lim, 10% Py, C_2, S_2/S_0, B_3, P_3 SK.
			Moderate, pervasive limonite within strongly
			altered qz-monzonite, 8-12% fine grained
			disseminated strongly oxidized pyrite. Moderate
			carbonate alteration, moderate quartz stock-
			works from 8-12m.
15.5	22,0	LQM	2% Lim, C_0, S_0, B_1
			Weak, variable, pervasive limonite alteration
			of qz-biotite monzonite, 20% unaltered biotite.
			Minor QM (no limonite) from 18-22m
22.0	41,5	LAQM	3% Lim, 2-9% Py, C_2, S_0, B_{2-3}, P_1
			Weak-moderate, pervasive limonite alteration,
			decreasing with depth, in mod-strongly
			altered qz-biotite monzonite. Biotite moder-
			ately-strongly altered from 32-40m, strongly
			so elsewhere. Pyrite content decreases with
			depth from 9% to 1% moderately oxidized

* 2 m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96 1612

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			from 22-26m, unoxidized from 38-41.5m
			Pyrite fine grained + disseminated: Moderate
			Carbonate alteration.
			30% ARGG from 24-26m
41.5	46.0	ARGG	tr Lim, C_1, S_3 Sk
			Weakly graphitic argillite, weakly calcareous,
			strong fracture-breccia controlled quartz
			stockwork. Trace limonite along fine, separate
			fracture systems
46.0	49.5	AQM	1% Lim, S^3 P_y, C_2, So, B_3, P_1
			Very weak pervasive limonite in strongly altered
			quartz monzonite. 3-7% disseminated fine
			grained weakly oxidized - unoxidized pyrite.
			Increasing pyrite content with depth. Moderate
			carbonate alteration.
49.5	60.0	ARGG	tr Lim, C_3, So
			Moderately graphitic argillite, weakly fractured,
			strong fracture controlled carbonate. Trace
			fine fracture controlled limonite
60.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1613

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	6.0	LAQM	2% Lim, 3% Py, Co, So, B2-3, P3
6.0	17.0	ARGG	tr Lim, Co, S2
17.0	19.0	~~SST~~	tr Lim, 6% Py, C1, So/S2, P1
		(SST?)	
19.0	27.5	ARG	tr Lim, Co, S2
27.5	30.0	SST	tr Lim, 6% Py, C2, S1, P2
		~~SST~~	
30.0	38.0	ARGG	tr Lim, Co, S2
38.0	41.0	LQM	2% Lim, C2, So, B1
41.0	43.5	ARG	tr Lim, C1, S2
43.5	48.5	LAQM	2% Lim, 4% Py, C1, So, B2-3, P2
48.5	52.5	LQM	2% Lim, 1% Py, C2, So, B3, P3
52.5	60.5	LAQM	3% Lim, 6% Py, C1, So, B3, P1
60.5	64.0	ARGG	tr Lim, Co, S3 SK
64.0	66.5	ARGG	Argg: tr Lim, Co, S3 SK 50:50 LAQM
			LAQM: 2% Lim, 7% Py, C1, So, B3, P1
66.5	72.0	LAQM	2% Lim, 7% Py, C1, S3, B3, P1 SK
72.0	76.0	LAQM:	LAQM: 2% Lim, 5% Py, Co, S3, B3, P1 60:40 ARGG
			ARGG: tr Lim, Co, S2
76.0	84.0	ARGG	tr Lim, Co-C3, S2 SK
84.0		EOH	END OF HOLE

* 3 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1613

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	6.0	LAQM	2% Lim, 3% Py, Co, So, Bz-3, P3
			Weak, pervasive limonite alteration in strong -
			moderately altered quartz-biotite monzonite.
			~~Py st~~ Biotite strongly altered, not totally destroyed.
			3-4% fine grained, disseminated, mod-strongly
			oxidized pyrite
6.0	17.0	ARG	tr Lim, Co, S2
			Mod - weakly graphitic argillite, decreasing
			content to 17m, moderate brittle fracture
			controlled quartz stockwork, Trace limonite
			along fine fracture system
17.0	19.0	SLT	tr Lim, 6% Py, C1, So/S2, P1
		(CSST?)	Tan-buff, fine grained weakly laminated
			siltstone (Steele formation?). 6% banded to
			disseminated fine grained pyrite, weakly -
			moderately oxidized. Fine silica stringers
			& weak silicification from 18 - 19m.
19.0	27.5	ARG	tr Lim, Co, S2
			Argillite, moderate quartz stockwork, trace
			limonite along fine, separate fracture
			system.
27.5	30.0	SLT	tr Lim, 6% Py, C2, S1, P2
		(CSST?)	Fine grained, weakly laminated siltstone
			(Steele formation?). 6% fine grained
			weakly banded to disseminated pyrite, trace
			limonite. Minor fracture controlled pyrite
			(+ arsenopyrite?), Moderate carbonate alteration,

* 3m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1613

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weak fracture controlled quartz
			veining
30.0	38.0	ARGR	tr Lim, Co, S_2 SK
			weakly graphitic argillite, increasing quartz
			stockworks with depth, weak fracture cont-
			rolled limonite. Weakly bleached, grey
			argillite from 36-38m
38.0	41.0	LQM	2% Lim, C_2, So, B_1
			Weak, pervasive, variable limonite in quartz-
			monzonite biotite monzonite, moderate carbonate
			alteration, 15-20% biotite, weakly oxidized
41.0	43.5	ARG	tr Lim, C_1, S_2 SK
			Argillite, weak limonite alteration along
			fine fracture system; decreasing quartz
			stockwork with depth, weak carbonate
			alteration
43.5	48.5	LAQM	2% Lim, 4% Py, C_1, So, B_2-3, P_2
			weak, pervasive limonite within strongly mod.
			altered qz-biot-monzonite. 3-4% fine grained
			to f. grained aggregates along fractures, weaker
			disseminated pyrite also. Weak-mod oxidized
			along fractures, discon. pyrite strongly altered,
			weak carbonate alteration. Localized
			unaltered biotite
48.5	52.5	LQM	2% Lim, 1% Py, C_2, So, B_1, P_3
			Weak pervasive limonite in qz-biotite-monzonite
			1% fine grained strongly oxidized Pyrite along
			fractures where mod-strong biotite alt. has occurred

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1613

Logged by: Carl Schulz

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Moderate carbonate alteration
			25% grey argillite from 48-50m.
52.5	60.5	LAQM	3% Lim, 6% Py, C1, So, Bz, P1
			Moderate-weak, pervasive limonite in strongly
			altered qz-biotite-monzonite. 6-10% fine
			grained fracture controlled (particularly
			from 52-54m) + disseminated pyrite, weakly
			to moderately oxidized, locally unoxidized.
			Weak carbonate alteration
60.5	64.0	ARGG	tr Lim, Co, Sz SK
			Strongly fractured-brecciated weakly
			graphitic argillite, strong quartz stockwork,
			weak fracture controlled limonite
64.0	66.5	ARGG:	ARGG: tr Lim, Co, Sz SK 50:50 LAQM
			LAQM: 2% Lim, 7% Py, C1, So, Bz, P1
			50:50 mixture of ARGG, similar to 60.5-64.0m,
			and weakly pervasively limonitic strongly
			altered quartz monzonite. 7% fracture controlled
			+ disseminated weakly oxidized pyrite, fine
			grained. Weak carbonate alteration
66.5	72.0	LAQM	2% Lim, 7% Py, C1, Sz, Bz, P1 SK
			Weak pervasive limonite in strongly altered
			qz-biotite-monzonite. 6-9% fine grained
			disseminated, weakly oxidized pyrite. Strong
			quartz stockwork
72.0	76.0	LAQM1	LAQM: 2% Lim, 5% Py, Co, Sz, Bz, P1 SK 60:40 ARGG
			ARGG: tr Lim, Co, Sz SK
			LAQM: ARGG 60:40 LAQM

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 1613

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			ARGG - weakly graphitic, moderate quartz stockwork,
			LAQM: Similar to 66.5-72.0m interval. 5% fine grained disseminated weakly oxidized pyrite, weak, pervasive limonite, 30% mod. limonitic, weakly pyritic LAQM from 74-76m strong quartz stockwork.
76.0	84.0	ARGG	tr Lim, Co-C3, S_2 SK weakly graphitic argillite, moderate, variable quartz stockwork, ± carbonate, also variable carbonate stockwork, strongest development from 80-82m
84.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96-1614

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	6	ARGC	Co, S_3 SK
6	16	LAQM	3% Lim, 5% Py, Co, So, B_3, P_3
16	18	ARGC	tr Lim, Co, S_2 SK
18	22	SLT (ARG)	SLT: 1% Lim, 8% Py, C_1, S_1, P_2 SK 60:40 ARG
			ARG: tr Py, Co, S_2 SK
22	38	ARGC	tr Lim, Co, S_2 SK
38	44	LAQM	3% Lim, 4% Py, C_1, So, B_3, P_2
44	47	LQM	2% Lim, Co, So, B_1
47	56.5	LAQM	3% Lim, 8% Py, C_2, So, B_3, P_1
56.5	66.0	ARGC	1% Lim, C_1, S_3
66.0		EOH	End of hole - rods plugged

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96-1614

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	6	ARGC	Co, S_2 SK
			Mod-weakly graphitic argillite, mod-strong fracture controlled quartz stockwork
6	16	LAQM	3% Lim, 5% Py, Co, So, B_2, P_3
			Moderate, pervasive limonite within strongly altered quartz-biotite monzonite-biotite nearly destroyed. 5% fine grained strongly oxidized pyrite, disseminated. Weaker limonite near upper contact (bleached?) ≈ 20% ARGC from 12-14m
16	18	ARGC	tr Lim, Co, S_2 SK
			Weakly graphitic argillite, moderate quartz stockwork, weak limonite along fine fracture system.
18	22	SLT (SST?)	SLT: 1% Lim, 8% Py, Co, S_1, P_2 60:40 ARG
			ARG: tr Py, Co, S_2 SK
			60:40 SLT: Tan-buff, weakly limonitic fine grained siltstone, weakly laminated. 8% very fine grained dissem. to weakly banded, mod. oxidized pyrite. Weakly developed fine silica stockwork with massive pyrite (?). Weak carbonate alteration
			ARG: Grey, weakly bleached argillite, moderate quartz stockwork, weak limonite alteration along fractures.
22	38	ARGC	tr Lim, Co, S_2 SK
			Weakly graphitic argillite moderate quartz stockwork, weak limonite alteration along fine

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1614

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			separate fracture system, Trace Pyrite in
			quartz, minor LAQM from 28-30m.
38	44	LAQM	3% Lim, 4% Py, C_2, Se, B_3, P_3
			Moderate, pervasive limonite within strongly
			altered quartz monzonite. 2-5% fine grained-
			med. grained, mod-strongly oxidized pyrite,
			fracture controlled + disseminated. Weak-
			moderate carbonate alteration. 40% unaltered
			qz-monzonite (LQM) from 38-40m.
44	47	LQM	2% Lim, C_0, So, B_1
			Weak, pervasive limonite in quartz-biotite
			monzonite, 20% biotite, unaltered-weakly
			altered.
47	56.5	LAQM	3% Lim, 8% Py, C_2, So, B_3, P_1
			Moderate, pervasive limonite in strongly
			altered quartz-biotite monzonite biotite
			strongly altered, locally weakly altered, 6-11%
			Fine grained, disseminated weakly oxidized
			Pyrite, minor unoxidized pyrite in AQM.
			Pyrite med grained From 54-56.5m. Mod.
			carbonate alteration
56.5	66.0	ARGC	1% Lim, C_1, S_2 SK
			Mod. graphitic argillite, tr-1% limonite
			along fractures + strongly developed quartz
			stockworks.
			Minor LAQM + 5% Pyrite From 58-62m
66.0		EOH	END OF HOLE - Rods plugged

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96 1615

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	4	ARGG	Co, S_2	SK
4	9	AQM	Co, So_3, B_3	
9	11.5	LQM	2% Lim, Co, So_3 B_1	
11.5	13.0	QM	Co, So_3, B_1	
13.0	15.0	AQM	1% Py, Co, So_3, B_3, P_2	
15.0	17.5	LAQM	2% Lim, 3% P_3, Co, So_3, B_3, P_3	
17.5	32.0	ARGG	Co, S_1	SK
32.0	33.5	LAQM	3% Lim, 6% Py, Co, S_1, B_3, P_3	SK
33.5	41.0	ARGG	tr Lim, tr Py, Co, S_2-S_1, P_1	SK
41.0	44.0	ARGG	ARGG: tr Lim, Co, S_2	SK 70:30 LAQM
			LAQM: 4% Lim, 10% P, Co, S_1, B_3, P_2	SK
44.0	55.5	LAQM	4% Lim, 11% Py, C_1, S_1, B_3, P_1	SK
55.5	58.0	ARGG	Co, S_1	SK
58.0	61.0	LAQM	2% Lim, 6% Py, C_1, S_3, B_3, P_1	SK
61.0	68.0	ARGG	Co, S_2	SK
68.0	71.0	LAQM	3% Lim, 6% Py, C_2, So_3, B_3, P_2	
71.0	79.0	~~EOH~~	~~End of Hole~~	
		ARGG	Co, S_2	SK
79.0		EOH	End of Hole	

0.5 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1615

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4	ARGG	Co, S_2 SK
			weakly graphitic, weakly bleached argillite, moderately - weakly ~~fracture~~ developed quartz
			stockwork
4	9	AQM	Co, So, B_3
			White altered quartz biotite monzonite,
			minor weakly altered biotite, otherwise
			biotite destroyed. Poor recovery - fine
			material
9	11.5	LQM	2% lim, Co, So, B_1
			Moderate - weak, pervasive limonite in ~~qualtered~~
			qz-biotite monzonite
11.5	13.0	QM	Co, So
			Fine - medium grained quartz-biotite -
			monzonite. White
13.0	15.0	AQM	1% P_2, Co, So, B_3
			Strongly altered quartz monzonite, minor
			remnant biotite, 1-2% disseminated, fine grained
			red, oxidized pyrite
15	17.5	LAQM	2% lim, 3% P_2, Co, So, B_3
			Weak - moderate limonite, variable, pervasive,
			stronger along fractures, within strongly
			altered qz-biotite monzonite, 3% fracture
			controlled, mod - strongly oxidized, fine
			grained pyrite, lesser disseminated pyrite
17.5	32.0	ARGG	Co, S_1
			Weak - moderately graphitic, weakly variable
			argillite, Weak quartz stockwork, increasing

0.5 m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1615

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			towards lower contact
32	33.5	LAQM	3% Lim, 6% P_2, Co, S_2, B_2 SK
			Moderate, pervasive limonite in strongly altered quartz monzonite. 6% fine-med grained, fracture controlled (lesser disseminated) pyrite, strong - moderately oxidized. Strongly developed silica stockwork.
33.5	41.0	ARGG	tr Lim, tr P_1, Co, S_3-S_1 SK
			Weakly graphitic argillite, Strong quartz stockwork development to 38 m, weak from 38-41m Minor Pyrite along qz veins, Minor limonite along fine fracture system
41.0	44.0	ARGG; LAQM	70:30 ARGG: ARGG; tr P_2, Co, S_2 SK
		70:30 ARGG	LAQM: 4% Lim, 10% P_2, Co, S_1, B_2
			ARGG - weakly graphitic, moderate quartz stockwork
			LAQM - Strong-moderate limonite, concentrated along fractures, in strongly altered quartz monzonite. 10% disseminated + fracture controlled mod. oxidized fine grained pyrite. Weak quartz stockwork.
44.0	55.5	LAQM	4% Lim, 11% P_1, Co, S_1, B_2 SK
			Moderate limonite, pervasive, stronger along fractures, in strongly altered quartz monzonite. 8-14% disseminate, fine grained, weakly oxidized. Pyrite, minor unoxidized material. Weak quartz stockwork, moderate + fine from 54.0-55.5m (more pervasive), weak carbonate alt.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1615

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			alteration.
			40% ARGG from 52-54m.
55.5	58.0	ARGG	Co, S1 S1S
			Weakly graphitic argillite, weak quartz
			stockwork
58.0	61.0	LAQM	2%Lim, 6%P1, Co, S2, B2 SK
			weakly pervasive limonite, stronger along fractures
			in strongly altered qz-biotite monzonite. 6%
			fine grained disseminated pyrite, weakly
			oxidized. Strong quartz stockwork, weak
			carbonate alteration. Qz usually pyrite-
			free (as it is elsewhere), some pyrite enrichment
			along separate fracturing event.
61.0	68.0	ARGG	Co, S2 SK
			Moderately angi graphitic argillite, mod-
			strong quartz stockwork.
68.0	71.0	LAQM	~~3%Lim, 6%P2, Co, S2, B2~~
			3%Lim, 6% P2, C2, So, B2
			Mod-weak, pervasive limonite within strongly
			altered quartz monzonite, 6% Fine grained-
			med. grained, disseminated + fracture cont-
			rolled, med. oxidized pyrite, Mod-weak
			carbonate alteration.
71.0	79.0	ARGG	Wk Co, S2 SK
			Weak-moderately graphitic argillite,
			weak-moderate fine quartz stockwork,
			wk weak silicification of wallrock
79.0		EOH	End of Hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1616

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1	OVB	Overburden
1	5.5	SH	Co, So-1
5.5	8.3	LAQM	3% Lim, 2% Py, Co, So, B3-2, P3
8.3	14.0	SH	tr Lim, Co, So
14.0	17.5	LAQM	4% Lim, 9% Py, Co, S1, B3, P2 SK
17.5	20.0	SH	Co, So
20.0	23.0	LAQM	LAQM: 4% Lim, 5% Py, C2, So, B3, P3 : 70:30 LQM
			LQM: 3% Lim, tr Py, Co, S1, B1
23.0	27.5	ARGG	Co, S3 SK
27.5	33.5	LAQM	3% Lim, 5% Py, Co, So, B3, P3
33.5	38.5	ARGG	tr Lim, Co, S2 SK
38.5	40.0	LAQM	4% Lim, 4% Py, Co, So, B3
40.0	42.0	ARGG	ARGG tr Lim, Co, S1 60:40 LAQM
			LAQM 5% Lim, 9% Py, C2, So, B3, P2
42.0	45.5	LAQM	4% Lim, 11% Py, C1, S1, B3, P2
45.5	49.0	ARG	tr Lim, tr Py, Co, S1, P3
49.0	52.0	LAQM	5% Lim, 7% Py, Co, S2, B3, P1
52.0	60.0	ARGG	tr Lim, Co, S3 SK
60.0	66.0	ARGG	12% Py, C2, S2, P0 SK
66.0	67.0	SST	tr Lim, 8% Py, C2, So, P1
67.0	84.0	ARGG	tr Lim, C2, S1-2 SK
84.0		EOH	End of hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 - 1616

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1		Overburden
1	5.5	SH	Co, Sl-0
			Grey, finely laminated fine grained shale
			(poss. bleached argillite) weak silica
			stockwork near lower contact.
5.5	8.3	LAQM	3% Lim, 2% Py, Co, So, B3-2, P3
			Moderate pervasive limonite, slightly stronger
			along foliation planes, In strongly altered
			qz-biotite limonite. 20% unaltered -
			displays unaltered to weakly altered biotite.
			2% fracture controlled + disseminated pyrite,
			strongly oxidized.
8.3	14.0	SH	tr lim, Co, So
			Grey, finely laminated shale, weak fracture
			controlled limonite. Possibly bleached
			argillite.
14.0	17.5	LAQM	4% Lim, 9% Py, Co, Sl, B3, P2 SK
			Mod-strongly limonitic, pervasive, within strongly
			altered qz-biotite-monzonite, 7-11% Pyrite,
			decreasing with depth, fine grained, dissem
			inated, moderately oxidized. Weak quartz
			stockwork.
17.5	20.0	SH	Co, So
			Med-dark grey, weakly foliated shale,
			similar to 1-5.5m interval
20.0	23.0	LAQM	LAQM: 4% Lim, 5% Py, Co, So, B3, P3 70:30 LQM
			LQM 3% Lim, tr P3, Co, So, B3, P3
			70:30 LAQM: Moderate, pervasive limonite

0.5 m excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96 1616

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			altered qz-biotite monzonite, 5% med-fine grained, med-strongly oxidized, disseminated pyrite, mod. carbonate alt.
			LQM: similar, unaltered biotite, trace pyrite.
23.0	27.5	ARGG	Co, Sz SK
			Weakly graphitic argillite, strong quartz stockwork
27.5	33.5	LAQM	3% Lim, 5% Py, Co, So, Bz, Pz
			Moderately pervasive limonite in strongly altered quartz-biotite monzonite, 3-8% med-fine grained, disseminated, mod-strongly oxidized pyrite.
33.5	38.5	ARGG	tr Lim, Co, Sz SK
			Weakly graphitic argillite, mod. quartz stockwork from 36-38.5 m. Weak fine fracture controlled limonite
38.5	40.0	LAQM	@ 4% Lim, 4% Py, Co, So, Bz, Pz
			Strong-mod. limonitic, pervasive, strongly altered qz-biotite monzonite, 4% fine grained disseminated strongly oxidized pyrite.
40.0	42.0	ARGG	ARGG: tr Lim, Co, Sz SK 60:40 LAQM
			LAQM: 5% Lim, 9% Py, Cz, So, Bz, Pz
			Weakly graphitic argillite, weak silica stockwork. 40% strongly limonitic strongly altered qz-monzonite. 9% pyrite, fine grained, disseminated, weak-moderately oxidized pyrite. Weak fine silica stockwork, moderate

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1616

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			carbonate alteration.
42.0	45.5	LAQM	4% Lim, 11% Py, C1, S1, B3, P3
			Moderate, pervasive limonite within strongly
			altered qz-monzonite. 9-13% fine grained,
			disseminated mod-weakly oxidized
			pyrite. Moderate quartz stockwork, increasing
			with depth.
45.5	49.0	ARG	tr Lim, tr Py, C0, S1, P3
			Argillite, weakly fractured, limonite+hematite
			+tr strongly oxidized pyrite along fractures.
			Weak quartz stockwork.
49.0	52.0	LAQM	5% Lim, 7% Py, C0, S2, B3, P1 SK
			Strong, pervasive limonite within strongly altered
			quartz monzonite. 3-7% fine grained, dissemin-
			ated + fracture controlled weakly-moderately
			oxidized pyrite. Moderate carbonate alteration
			from 49-50m, strong quartz stockwork.
52.0	60.0	ARGG	tr Lim, C0, S3 SK
			Weakly graphitic ~~graphi~~ argillite, strong
			quartz stockwork, trace limonite along
			fractures. Trace pyrite in veins from 58-60m
60.0	66.0	ARGG	12% Py, C3, S2, P0 SK
			Argillite, weakly graphitic, strong carbonate
			alteration + injection, moderate quartz
			stockwork. 12% fracture controlled + minor
			disseminated, fine grained, oxidized pyrite.
66.0	67.0	SLT	tr Lim, 8% Py, C2, S0, P1
			Tan-buff, fine grained siltstone, 8% fine grained

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1616

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weakly oxidized, disseminated + fracture
			controlled pyrite. Moderate carbonate alt.
67.0	84.0	ANGL	tr Lim, C_3, S1-2 SK
			Weakly graphitic argillite, increasing graphite
			with depth. Strong carbonate alteration
			from 67-74m, variable quartz stockwork,
			highest from 67-70m. Trace fracture controlled
			limonite.
			70-72m : 40% LAQM : 5-6% fine grained
			72-74m : 10% LAQM disseminated, weakly
			74-76m : 35% LAQM oxidized pyrite.
84.0		EOH	END OF HOLE - tight rods -

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1617

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Logged by: Carl Scholz

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	8	LAQM	tr-3% Lim, 3% Py, Co, So, B3, P3
8	14	ARG	tr Lim, Co, So
14	23.5	LAQM	3% Lim, 8% Py, C3, So, B3, P2
23.5	39.5	ARGG	tr Lim, Co, S1 SK
39.5	40.0	LAQM	3% Lim, 3% Py, Co, So, B3, P2
40.0	42.0	LQM	2% Lim, Co, S1, B1
42.0	43.5	ARG	tr Lim, Co, S3
43.5	47.0	LAQM	4% Lim, 11% Py, C1, So, B3, P2
47.0	58.0	ARGG	C3, S1 SK
58.0		EOH	END OF HOLE

1.5 m. excavation

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1617

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	8	LAQM	tr-3% Lim, 3% Py, Co, So, Bz, Pz
			Pervasive, variable limonite, increasing with
			depth from trace to 3%, in strongly altered
			quartz-biotite monzonite (bleached near
			surface) 3% fine grained, disseminated,
			strongly oxidized pyrite.
			30% ARGG to 6m may be overburden.
8	14	ARG	Finely laminated grey-black argillite
			(bleached?), weak fracture controlled
			limonite tr Lim, Co, So
14	23.5	LAQM	3% Lim, 8% Py + C3, So, Bz, Pz
			Strong-moderate, pervasive limonite in strongly
			altered quartz monzonite, 5-10% fine-medium
			grained moderately oxidized, disseminated
			+ fracture controlled pyrite. Strong
			carbonate alteration.
23.5	39.5	ARGG	tr Lim, Co, S1 SK
			Moderately graphitic limonite, weak, variable
			quartz stockwork, trace fracture controlled
			limonite.
39.5	40.0	LAQM	3% Lim, 3% Py, Co, So, Bz, Pz
			Small zone of moderately, pervasively limonitic
			altered qz monzonite 3% disseminate, moderately
			altered pyrite, fine grained
40	42	LQM	2% Lim, Co, S1, B1
			Weak, pervasive limonite within quartz-
			biotite monzonite weak silica stockworks.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1617

Logged by: Carl Schulte

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			20-25 % oxidized pyrite
42	43.5	ARGL	Argillite, strong quartz stockwork,
			trace fracture controlled limonite
			tr Lim, Co, Sy
43.5	47.0	LAQM	4% Lim, 11% Py, C1, So, B3, P2
			Mod-strong, pervasive limonite within strongly
			altered quartz monzonite, 11-12? fine
			grained weak-moderately oxidized pyrite,
			disseminated + minor fracture controlled.
			weak carbonate alteration.
47.0	58.0	ARGL	C3, S1 SK
			Weakly graphitic argillite, weak-moderate
			quartz stockwork, strong carbonate alter-
			tion (stockwork?)
58.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1618

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.5	LAQM	tr Lim, tr Py, 1% Sb(?) Co, S1, B3, P4
2.5	25.0	ARGL	Co, S2, SK
25.0	33.0	LAQM	3% Lim, 7% Py, Co, S1, B3, P2
33.0	70.0	ARGL	33-48m: Co, S1 SK
			48-70m: C3, S1 SK
70.0		EOH	END OF HOLE

0.5 m excluded

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1618

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.5		tr Lim, tr Py, 1% Sb (?), Co, S_1, B_3, P_4
			Bleached buff strongly altered quartz monzonite
			tr strongly altered Pyrite, 1% fracture cont-
			rolled stibnite (?). Weak fracture controlled
			quartz stockworks
			25% LAQM - weakly limonitic.
2.5	25.0	ARGG	Weakly graphitic argillite, increasing graphite
			with depth, weak-moderate quartz stockwork,
			strong from 12-16m, 18-22m.
			Co, S_2, SK
25.0	33.0	LAQM	3% Lim, 7% Py, Co, S_1, B_3, P_2
			Moderate, pervasive limonite within strongly
			altered quartz monzonite. 6-9% fine grained
			disseminated + fracture controlled pyrite, mod-
			strongly oxidized. (locally weakly oxidized).
			Weak fine silica stringers - not a stockwork
33.0	70.0	ARGG	33-48m: Co, S_1 SK
			48-70m: C_3 S_1 SK
			Moderately graphitic weakly foliated grey-black
			argillite, weak silica stockwork, strong
			carbonate alteration (calcite stockwork) from
			48-70m.
70.0		EOH	END OF HOLE

0.5m excavated

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1619

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1	OVB	Overburden
1	4.5	ARGG	ARGG: Co, So, tr Lim, 55:45 SLT (SST?)
			SLT: 1% Lim, 2% Py, Co, S1, P3 SK
4.5	30	ARGG	tr Lim, Co, S1 SK
30	32	LAQM	2% Lim, tr Py, Co, So, B1, P3
32	37	ARGG	tr Lim, Co, S2 SK
37	50	LAQM	2% Lim, 7% Py, C1, S1, B2, P1 partial SK
50	51	ARGG	Co, S1 SK
51.0	56.0	LAQM	2% Lim, 5% Py, Co, So, B2-3, P2
56.0	60	ARGG	ARGG: Co, S2 SK 65:35 LAQM
			LAQM: 2% Lim, 6% Py, C1, So, B2, P1
60		EOH	END OF HOLE

1 m. excavation

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1619

Logged by: Carl Schulz

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1		Overburden
1	4.5	ARVC	ARVC: Co, So, tr Lim 55:45 SLT (SST?)
			SLT: 1% Lim, 2% Py, Co, S1, P3 SK
			Mixed weakly graphitic argillite and fine grained, weakly laminated, moderately foliated siltstone, 1% foliation controlled limonite + 2% weakly foliation controlled, very fine grained pyrite in siltstone (Steele form?)
			Weak quartz stockwork in SLT.
4.5	30	ARVC	tr Lim, Co, S1 SK
			Weakly graphitic argillite, locally weakly foliated, weak quartz stockwork, somewhat stronger from 18-30m. Strong graphite alteration from 20-26m - fine recovery, poor "chip" recovery. Minor LAQM from 16-18m, 25% LAQM + 6% P3 from 26-28m, 15% similar LAQM from 28-30m.
30	32	LQM	2% Lim, tr Py, Co, So, B1, P3
			Weakly limonitic (pervasive) within quartz-biotite monzonite, trace oxidized pyrite, 15% unaltered biotite. Minor LAQM (<15%).
32	37	ARVC	tr Lim, Co, S2 SK
			Weakly graphitic argillite, weakly foliated, moderate quartz stockwork, somet. locally foliation controlled. Weak fracture controlled limonite.
37	50.0	LAQM	2% Lim, 7% Py, C1, S1, B2, P1
			Weak, pervasive limonite within strongly altered quartz-biotite monzonite. Minor LQM from 37-38m, and 46-48m. 5-9% fine grained, - med grained,

1 m elevation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1619

Logged by: Carl Schulz

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weakly oxidized to unoxidised disseminated pyrite, 12% dissem. md. grained pyrite from 48-50m, with moderate limonite. Weak carbonate alteration, silica alteration + local quartz stockwork.
50	51.0	ARGG	Co, S, SK
			Weakly graphitic argillite, weak quartz stockwork.
51.0	56.0	LAQM	2% Lim, 5% Py, Co, So, B2-3, P2
			Weak pervasive limonite within moderately - strongly altered quartz-biotite monzonite.
			LAQM: LQM 85:15 LAQM ± ~~mod~~ minor
			unaltered quartz monzonite, 5-6% fine grained, disseminated, moderately to weakly oxidized pyrite, weak carbonate alteration from 52-54m
56.0	60	ARGG	ARGG: Co, S2 SK 65:35 LAQM
			LAQM: 2% Lim, 6% Py, C1, So, B2, P1
			Mixed weakly graphitic argillite + minor quartz stockwork with strong-moderately altered quartz-biotite stockwork + minor LQM. In LAQM, 5-7% fine grained, weakly oxidized, disseminated pyrite, + weak carbonate alteration
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: BC 96 1620

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	9	LAQM	3% Lim, 8% Py, Co-3, S1, B3, P3 SB partial
9	10	ARGL	tr Lim, Co, So
10	17	LAQM	3% Lim, 6% Py, C1, S1, B3, P1 SK
17	28	ARGL	Co, S1 SK
28		EOH	Rods too tight
			(Summary log indicates EOH at 32m)

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1620

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	9	LAQM	3% Lim, 8% Py, Co-3, Si, Bz, Pz SK - partial weak-moderate, pervasive limonite within strongly altered quartz monzonite. 5-10% (variable) fine grained strongly oxidized disseminated Pyrite. Variable carbonate alteration, strongest From 6-8m, weak-moderate pervasive silica alteration, strong silica alteration from 8-9m.
9	10	ARGG	tr Lim, Co, Se weakly graphitic argillite, mod. fin fractures +trace limonite
10	17.0	LAQM	3% Lim, 6% Py, Cl, Si, Bz, Pl SK Moderate pervasive limonite within strongly altered quartz-monzonite, moderate hematite alteration from 14-16m. 3-10% Pyrite, variable concentration, fine-medium grained (coarser in hematitic zone), disseminated. Weak carbonate alteration, silica stockwork, 30% ARGG from 14-16m, minor ARGG from 12-14m
17	28	ARGG	Co, Si SK Moderately graphitic argillite, strong from 20-24m, with weak carb. alteration, weak to silica stockwork. Minor LAQM + mod. oxidized pyrite From 22-24m, +26-28m
28		EOH	END OF HOLE - rods too tight (Clog indicates EOH at 32m)

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96 1621

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVB	Overburden
2	6	ARGG	ARGG: tr Lim, Co, S1 40:40:20 CH, LAQM
			CH: tr Lim, Co, S2 -contamination ?
			LAQM: 2% Lim, tr Py, Co, So, B3, P3 -contamination ?
6	12	ARGG	Co, S2 SK
12	19	LAQM	4% Lim, 10% P2, C1, So, B2, P2
19	21	ARGG	Co, S2 SK
21	25.5	LAQM	1% Lim, 12% Py, Co, So, B3, P2
25.5	60	ARGG	25.5 - 44m: Co, S1 SK
			44 - 60m - C3, S2 SK
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1621

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	6	ARLG	Argg tr Lim Co, S_1 40:40:20
			Cht : tr Lim, Co, S_2
			LAQM: 2% Lim, tr P_3, Co, So, B_3, P_3
			Mixture of ARLG, CH, LAQM, may indicate overburden contamination of ARLG.
			ARLG, mod-weakly graphitic, moderate quartz stockwork.
6	12	ARLG	Co, S_2 SK
			Weakly graphitic argillite, strong quartz stockwork following brittle fracturing (breccia?)
12	19	LAQM	4% Lim, 10% Py, C_1, So, B_3, P_2
			Strong-moderate limonite alteration, pervasive + fracture controlled, within strongly altered quartz biotite monzonite. 7-12% medium + fine grained disseminated + fracture controlled pyrite, weak-moderately oxidized (coarse grained material weakly altered). Weak carbonate alteration, fracture controlled manganese.
19	21	ARLG	Co, S_2 SK
			Weakly graphitic argillite, moderate quartz stockwork
21	25.5	LAQM	1% Lim, 12% Py, Co, So, B_2, P_2
			Weak pervasive limonite within strongly altered quartz-biotite monzonite. 12% fine grained, disseminated, euhedral, weak-moderately oxidized pyrite, uniform distribution

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1621

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
25.5	60	ARGL	25-44m: C_0, S_1 SIS
			44-60m: C_3, S_2 SK
			Moderately graphitic argillite, increasing slightly with depth, no carbonate alt. to 44m, strong carbonate alt. from 44-60m, with ~~weak~~ somewhat stronger quartz stockwork (calcite stockwork?)
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC96 1622

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	2	OVB	Overburden	
2	9.5	ARGG	tr Lim, Co, S1	
9.5	11.0	LAQM	4% Lim, 4% Py, Co, S1, B3, P3	SK
11.0	25.5	ARGG	Co, S1-3	SK
25.5	28.5	LQM	LQM: 2% Lim, tr P3, Co, So, B1, P3	
			LAQM: 3% Lim, 1% Py, Co, So, B3, P3	70:30 LAQM
28.5	30.0	ARGG	tr Lim, Co, S2	
30.0	32.0	ARGG:	ARGG: tr Lim, Co, S1	SK, 50:50 SLTG
		~~SLTG~~	SLTG: 2% Lim, Co, So	
		~~50:50~~		
32.0	36.0	ARGG	tr Lim, Co, So	
36.0	37.5	LQM	LQM: 3% Lim, Co, So, B1	80:20 LAQM
			LAQM: 3% Lim, 2% Py, So, B3, P0	
37.5	42.0	QM	tr Lim, C2, So, B1	
42.0	46.0	LQM	3% Lim, C3, So, B1	
46.0	54.5	ARGG	Co, So	
54.5	59.0	LAQM	3% Lim, 10% Py, C2, So, B3, P2	
59.0	63.0	ARGG	Co, S2	
63.0	66.0	LAQM	2% Lim, 8% Py, C2, S3, B3, P2	SK
66.0	68.0	ARG	tr Lim, Co, S3	SK
68.0	72.0	ARGG	ARGG: tr Lim, Co, S3	SK 75:25 LAQM
			LAQM: 4% Lim, 5% Py, Co, S1, B3, P3	
72.0	73.0	ARG	Co, S2	SK
73.0	74.0	LAQM	2% Lim, 12% Py, C1, S3, B3, P1	SK
74.0	76.5	ARGG	Co, S2	SK
76.5	79.0	LAQM	3% Lim, 7% Py, Co, S1, B3, P1	SK
79.0	84.0	ARGG	tr Lim, Co, S1	

84.0 EOH - END OF HOLE - RODS TIGHT

0.5 m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1622

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	9,5	ARG	~~Arg~~ tr Lim, Co, S_1
			Argillite, weakly "bleached", minor leucocratic siltstone, minor fracture controlled limonite. Weak silica influx, often parallel to weakly ~~foliation~~ developed foliation.
9,5	11,0	LAQM	4% Lim, 4% Py, Co, S_1, B_2, P_3 SK
			Moderate pervasive, stronger fracture controlled limonite within strongly altered quartz ~~feldsp~~ biotite porphyry. 4% fine grained, fracture controlled + disseminate pyrite, strongly oxidized. Weak quartz stockwork.
11,0	25,5	ARGG	Co, S_1-3
			Weakly graphitic argillite, weakly foliated, variable quartz stockwork
25,5	28.5	LQM	2% Lim, tr Py, Co, So, B_1, P_3 (LQM) 70:30 LAQM
			3% Lim, 1% Py, Co, So, B_3, P_3 (LAQM)
			Mixed altered tonalitized quartz-biotite monzonite, both weakly-moderately limonitic, 1% fine grained strongly oxidized pyrite in LAQM, minor med. grained pyrite boxwork
28,5	30.0	ARGG	tr Lim, Co, S_2 SK
			Weak graphitic argillite, moderate quartz stockwork
30,0	32.0	ARGG	ARGG: tr Lim, Co, S_1 S/S 50:50 SLTG
			SLTG: 2% Lim, Co, So
			Mixed ARGG (weakly graphitic, weak quartz stockwork) and limonitic siltstone, 1-2% pervasive fracture filling, weakly pervasive limonite.

0.5 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1622

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
32.0	36.0	ARGG	tr Lim, Co, So
			weakly graphitic limonite, trace limonite
			along fine fractures.
36.0	37.5	LQM:	3% Lim, Co, So, B1 - LQM 80:20 LAQM
		LAQM 80:20	3% Lim, 2% Py, So, B2, Po - LAQM
			Moderate, pervasive limonite within quartz-
			biotite monzonite, weakly altered pyrite (LQM)
			LAQM: strongly altered quartz-mc-biotite
			monzonite, 2% med-coarse grained oxidized
			pyrite, similar limonite content.
37.5	42.0	QM	tr Lim, C2, So, B1
			Weak fracture controlled limonite in buff
			colored quartz-biotite monzonite - moderate
			carbonate alteration
42.0	46.0	LQM	3% Lim, C3, So, B1
			Similar to QM from 37.5-42.0m: moderate
			pervasive limonite, increasing carbonate alter-
			ation with depth. Minor QM from 44-46m.
46.0	54.5	ARGG	Co, So
			Weakly-moderately graphitic argillite,
			minor quartz stockwork from 50-52m
54.5	59.0	LAQM	2% Lim, 10% Py, C2, So, B2, P2
			Weak-moderate pervasive limonite within
			strongly altered quartz biotite monzonite. 10-12%
			med. grained fracture controlled + disseminated
			weakly-moderately altered pyrite - oxidation
			decreases with depth, more disseminated pyrite.
			Moderate pervasive carbonate alteration.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1622

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
59.0	63.0	ARgG	$Co_2 S_2$
			Weakly graphitic argillite, moderate - weak quartz stockwork
63.0	66.0	LAQM	2% Lim, 8% P, C_2, S_3, B_3, P_2 SK
			Weak pervasive limonite within strongly altered qz-monzonite. 8% medium grained (lesser fine grained) weakly to moderately oxidized pyrite, disseminated. Weak to moderate carbonate alteration, strong quartz stockwork particularly near lower contact.
66.0	68.0	ARg.	A tr Lim, Co, S_3 SK
			Argillite, strong quartz stockwork, weak pervasive silica alteration.
68.0	72.0	ARgG	ARgG: tr Lim, C_0, S_3 SK 75:25 LAQM
			LAQM: 4% Lim, 5% P, $Co_2 S_1, B_2, P_3$
			75:25 mixture of ARgG (weakly graphitic, strong quartz stockwork) and LAQM: 4% pervasive limonite, 5% fine, locally medium grained pyrite, disseminated + fracture controlled, moderately oxidized. Weak quartz stockwork.
72.0	73.0	ARG	$Co_2 S_2$ SK
			Argillite, moderate quartz stockwork
73.0	74.0	LAQM	2% Lim, 12% Py, C_1, S_1, B_2, P_1 SK
			Weak, pervasive limonite within strongly altered qz-biotite monzonite. 12% fracture controlled - disseminated pyrite, very weakly altered oxidized, medium - fine grained

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1622

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Strong quartz stockworks, weak carbonate alteration.
74.0	76.5	ARGG	Cg, Sz, SIS Weakly graphitic argillite, weakly laminated, strong quartz stockwork.
76.5	79.0	LAQM	3% Lim, 7% Py, Cg, Sl, Bz, P, Moderate pervasive limonite, locally stronger along fractures, in strongly altered qz biotite monzonite. 6-8% fine grained disseminated + fracture controlled weakly oxidized pyrite. Locally hematitic, Weak quartz stockwork, weak carbonate alteration.
79.0	84.0	ARGG	Cg, Sl, SIS Moderately graphitic argillite, weak quartz stockwork, trace fracture controlled limonite from 80-82m. Strong calcite stockwork from 79-80m, along upper contact.
84.0		EOH	END OF HOLE - RODS TIGHT

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1623

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SLT	tr Lim, Co, S_0-S_2 SK
10	17	SM	Co, S_0
17	20	LQM	3% Lim, C_2, S_0, B_1
20	23.0	ARG	tr Lim, tr P, C_1, S_1, P_2 SK
23.0	26.0	LQM	LQM: 3% Lim Co, S_1, B_1 70:30 LAQM
		LAQM	LAQM: 3% Lim, 2% P, S_0, Co, B_3, P_2
26.0	36.5	ARG	Co, S_3-S_1 SK
36.5	40.0	LQM	2% Lim, C_1-3, S_0, B_1
40.0	42.0	LQM	LQM: 2% Lim, C_1, S_0, B_1 55:45 LAQM
		LAQM	LAQM: 2% Lim, 2% P_{ff}, S_1, C_2, B_2-3, P_1
42.0	44.0	LQM	2% Lim, tr P_{ff}, C_3, S_0, B_1-2, P_1
44.0	49.0	LAQM	2% Lim, tr P_{ff}, C_3, S_0, B_1-2, P_1
49.0	51.0	LQM	2% Lim, C_3, S_0
51.0	64	ARG	tr Lim, Co, S_1
64		EOH	END OF HOLE

5m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1623

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	10	SLT	tr-1% Lim, Co, So-S2 SK
			Siltstone, weakly foliated - massive, Approx.
			30% weakly - moderately limonitic. Moderate
			quartz stockwork from 4-8m. Minor LAQM?
			- Particles rounded - semi-rounded - overburden?
10	17.0	SH	Co, So
			Med. grey, weakly foliated shale, weakly
			laminated (Bleached argillite?)
17	20.0	LQM	3% Lim, C2, So, B1
			Moderate limonite, pervasive, within quartz
			biotite monzonite, moderate carbonate
			alteration
20.0	23.0	ARG	tr Lim, tr Py, C1, S1, P2 SK.
			Argillite, weak carbonate, ~~silic~~ alteration, silica
			stockwork. 20% grey siltstone from 20-22m,
			minor siltstone from 22-23m. 3% very fine
			grained pyrite (?) in siltstone, difficult
			to distinguish.
23.0	26.0	LQM	LQM: 3% Lim, Co, S1, B1 70:30 LAQM
			LAQM: 3% Lim, 2% Py, So, Co, B3, P2
			70:30 mixture of ~~LAQM + LQM~~ LQM:LAQM.
			Both (undergone) moderately pervasive limonite alteration,
			LAQM has 2% fracture controlled medium grained,
			moderately oxidized pyrite. LAQM more
			abundant from 23-24m. Weak quartz stockwork
			in LQM.
26.0	36.5	ARG	Co, S3-S1 SK
			Weakly graphitic argillite, increasing graphite

5 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1623

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			alteration with depth. ∅ Strong quartz stockwork along upper contact, decreasing with depth.
36.5	40.0	LQM	2% Lim, C1-3, So, B1
			Weakly limonitic (pervasive) qz-biotite-monzonite strong carbonate alteration, weak quartz stockwork from 36.5-39.0m. Minor LAQM + fracture controlled hematite from 36.5-38.0 m
40	42	LQM	LQM: 2% Lim, C1, So, B1 55:45 LAQM
			LAQM: 2% Lim, 2% Py, S1, C2, B2-3, P1
			LQM: Weak, pervasive limonite altered, weakly altered quartz-biotite monzonite, weak carbonate alteration.
			LAQM: Similar limonite, strongly altered quartz-biotite monzonite, weak qz-quartz stockwork + 2% disseminated, weakly oxidized, ~~mod~~ weak fine grained pyrite, moderate carbonate alteration.
42	44	LQM	2% Lim, tr Py, C2, So, B1-2, P1
			Weak, pervasive limonite in strong carbonate altered qz-biotite monzonite, biotite weakly ~~ox~~ altered. Minor LAQM, trace weakly oxidized pyrite.
44	49.0	LAQM	2% Lim, 6% Py, C2, So, B2, P1
			Weak, pervasive limonite in strongly altered qz-biotite monzonite, 6% disseminated + lesser fracture controlled weakly oxidized-unoxidized, ~~mod~~ grained pyrite. Moderate

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1623

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			carbonate alteration
49.0	51.0	LQM	2% Lim, C3, Sc
			weak pervasive limonite in quartz-biotite
			monzonite, strong carbonate alteration.
			(Unaltered equivalent of LAQM from 44-49m?)
51.0	64	ARW	tr Lim, Co, Sc SK
			weakly graphitic argillite, trace limonite
			along fine fractures from 51-56m, moderate
			quartz stockwork from 56-62m.
64		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1624

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Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVBN	Overburden
2	13.5	ARGG	tr Lim, Co, S_2 SK
13.5	16.0	LAQM	LAQM: 3% Lim, 5% P, Co, S_1, B_3, P_3 SK 50:50 LQM
			LQM: 3% Lim, C_2, So, B_1
16.0	21.1	ARG	tr Py, Co, So
21.0	23.0	LAQM	4% Lim, 2-6% P, Co, So, B_3, P_3
23.0	30.0	ARGG	tr Lim, Co, S_1 SK
30.0	46.5	LAQM	3% Lim, 6% Py, C_2, So, B_3, P_1
46.5	63.0	ARGG	Co, S_1 SK
63.0	68.0	LAQM	LAQM: 3% Lim, 3-15% Py, C_2, So, B_3, P_1 55:45 ARGG
			ARGG: Co, S_2 SK
68.0	75.0	LAQM	4% Lim, 11% Py, C_1, S_2, B_3, P_1 SK
75.0	76.0	ARGG	tr lim, Co, S_3 partial SK
76.0	78.5	LAQM	1% Lim, 6% Py, Co, S_4, B_3, P_1 SK
78.5	85.5	ARGG	Co, S_2 SK
85.5	91.0	LAQM	4% Lim, 10% Py, C_2, S_1, B_3, P_1 SK
91.0	96.0	ARGG	Co, S_2 SK
96.0		EOH	End of hole - rods plugged

0.5 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1624

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	OVBN	Overburden
2	13.5	ARGG	tr Lim, Co, S_2 SK
			weakly graphitic argillite, weak - moderate quartz stockwork, locally fracture filling, Minor LAQM from 2-6m, fracture controlled limonite from 4-10m, zeolite (?) from 10-14m
13.5	16.0	LAQM	LAQM: 3% Lim, 5% Py, Co, S_1, B_3, P_3 50:50 LQM
			LQM: 3% Lim, C_2, So, B_1
			Even mixture of strongly altered qz-biotite monzonite (LAQM) + unaltered qz-biotite monzonite (LQM) 5% strongly oxidized, disseminated, fine grained pyrite in LAQM, with weakly developed quartz stockwork. Mod. carbonate alteration in LQM; both have undergone moderate pervasive limonite alteration
16.0	21.0	ARG	tr Py, Co, So
			Grey-black argillite, weak limonite alteration along fine fractures, light fraction may be siltstone. Weakly laminated
21.0	23.0	LAQM	4% Lim, 2-6% Py + Co, So, B_3, P_3
			Strong pervasive limonite within strongly altered qz-biotite-monzonite. 2-6% Py (variable); fine grained, disseminated + fracture controlled, strongly oxidized. Possible tr. stibnite
23.0	30.0	ARGG	tr Py, Co, S_1 SK
			Weakly graphitic argillite, weak quartz stockwork stronger near upper contact. Weak limonite along fine fracture system, separate from stockwork

0.5m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1624

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
30.0	46.5	LAQM	3% Lim, 6% Py$_{fg}$, C$_2$, So, B$_3$, P$_1$
			Moderate, pervasive limonite, decreasing from 42-46m,
			within strongly altered qz-biotite monzonite.
			40% LQM (unaltered biotite) from ~~24-26m~~ 30-32m,
			minor LQM from 38-42m, trace amounts
			throughout. Variable pyrite concentration,
			from 5-12%, greatest concentration from 34-38m.
			Pyrite is disseminated, weakly oxidized, fine-med.
			grained, locally coarse grained. Pervasive moderate
			carbonate alteration, minor quartz stockwork
			along contacts.
46.5	63.0	ARGG	Co, S$_1$ SK
			Weakly graphitic argillite, ~~sto~~ increasing
			with depth, trace fracture controlled limonite
			from 46-52m, weak local quartz stockwork.
63.0	68.0	LAQM	LAQM: 3% Lim, 3-15% Py$_{fg}$, C$_2$, So, B$_3$ 55:45 ARGG
			ARGG: Co, S$_2$ SK
			55:45 mixture of moderate pervasively
			limonite altered strongly altered qz-biotite
			monzonite (LAQM) & weakly graphitic
			argillite (ARGG) with weak quartz stock-
			work. Interlayered ?. 3-15%, strongly variable
			pyrite concentration, fine-medium grained, euhedral,
			disseminated, weakly unoxidized. Moderate
			carbonate alteration in LAQM.
68.0	75.0	LAQM	4% Lim, 11% Py$_{fg}$, C$_1$, S$_2$, B$_3$, P$_1$ SK
			Strong, pervasive limonite within strongly altered
			qz-biotite monzonite, 11% fine grained, dissemin.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1624

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			weakly oxidized pyrite. Increasing quartz stockwork, decreasing carbonate alteration with depth. Approx 20% ARGG, weakly graphitic, evenly distributed across interval.
75.0	76.0	ARGG	tr Lim, Co, S_2 partial SK weakly graphitic argillite, strong silica stockworks, weak pervasive silica influx
76.0	78.5	LAQM	1% Lim, 6% Py, Co, S_4, B_2, P_1 SK weak limonite, pervasive, in strongly altered quartz-biotite monzonite. 60% quartz-vein? 6% fine grained disseminated weakly oxidized to unoxidized pyrite - locally "massive" along fractures.
78.5	85.5	ARGG	Co, S_2 SK Moderately graphitic argillite, moderate quartz stockworks, strongly fractured to locally brecciated
85.5	91.0	LAQM	4%, 10% Py, C_2, S_1, B_2, P_1 SK Strong pervasive limonite within strongly altered qz-monzonite; stronger limonite along fractures. 10% fine grained, disseminated, weakly oxidized pyrite, locally very fine grained. Moderate to weak quartz stockworks along contacts, moderate carbonate alteration.
91.0	96.0	ARGG	Co, S_2 SK Moderately graphitic argillite, moderate-strong fine quartz stockwork
96.0		EOH	END OF HOLE: Rods plugged

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1658

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	OVBN	Overburden
1.5	9.5	LAQM	2% Lim, 3% Py, 1% Sb(?), Co, So, P3 SIS
9.5	14.0	AQM	AQM: tr Lim, Co, So, B3, tr Sb? 70:30 LAQM
			LAQM: 2% Lim, 1% Py, C2, So, B3, P3 tr Sb?
14.0	16.5	LAQM	2% Lim, 2% Py, Co, So, B3, P3 tr Sb?
16.5	18.5	AQM	tr Lim, tr Py, 2% Sb, Co, So, B3, Po
18.5	36.0	LAQM	3% Lim, 2% Py, 1% Sb(?), P3, Co, So, B3 (18.5–26.0m)
			8% Lim, 6% Py, P2, 1% Sb, C1, So, B3 (26.0 - 36.0m)
36.0	44.0	LAQM	LAQM: 3% Lim, 3% Py, 4% Aspy, C1, So, B3, P2 55:45 AQM
			AQM: tr Lim, 5% Aspy, Co, So, B3
44.0	52.5	AQM	tr lim, 2% Aspy, C1, So, B3
52.5	58.0	ARGL	Co, S1 SIS
58.0	61.0	AQM	tr Lim, 7% Py, 3% Aspy, C1, So, B3, Po
61.0	67.5	ARGL	Co, So
67.0	75.0	AQM	tr Lim, 11% Py, tr Aspy, C2, So, B3, Po
75.0	82.0	ARGL	2% Po, Co, S1 SK
82.0		EOH	END OF HOLE: Bit plugged

1.0 m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1658

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	OVBN	Overburden
1.5	9.5	LAQM	2% Lim, 3% Py, 1% Sb(?), Co, Si, P3 SK weak, pervasive limonite (strong from 1.5-4.0m) in strongly altered qz-biotite monzonite 3% fine grained, fracture controlled + disseminated pyrite, strongly oxidized, + 1% fracture controlled blue-black mineral (stibnite? - no "ochre"). Weak quartz stockworks.
9.5	14.0	AQM	AQM: tr Lim, Co, So, B3, tr-Sb 70:30 LAQM LAQM: 2% Lim, 1% Py, C2, So, B3, tr Sb, P3 AQM: LAQM 70:30, Mixture of buff coloured strongly altered quartz biotite monzonite, ~~and similar~~ (AQM), and similarly altered weakly, pervasively mineralized quartz-biotite monzonite (LAQM). 1% fine grained disseminated strongly oxidized pyrite in LAQM, trace stibnite in both.
14.0	16.5	LAQM	2% Lim, 2% Py, Co, So, B3, P3 tr Sb? Weak, pervasive limonite in strongly oxidized quartz-biotite monzonite, 2% fine grained strongly oxidized disseminated pyrite, weak fracture controlled manganese, trace stibnite?
16.5	18.5	AQM	tr-Lim, tr Py, 2% Sb, Co, So, B3, P0 Buff coloured strongly altered qz-biotite monzonite, 2% disseminated, locally concentrated stibnite, trace disseminated unoxidized disseminated

1.0m. excavated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1658

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
18.5	36.0	LAQM	3% Lim, 2% Py, Pf, 1% Sb?, Co, So, Bz (18.5 – 26.0m)
			3% Lim, 6% Py, Pf3, 1% Sb, Cf, So, Bz (26.0 – 36.0m)
			Moderate, pervasive limonite, strong fracture
			controlled limonite from 30-34m, + minor
			hematite, in strongly altered quartz-
			biotite monzonite. 3% disseminated,
			fine grained disseminated pyrite, strongly
			oxidized, From 18.5-26.0m; 4-8% dissem-
			inated + fracture controlled, mod-strongly
			oxidized, fine-medium grained pyrite
			from 26.0-36.0m. Weak carbonate
			alteration from 26.0-36.0m, ≈ 1% fracture
			controlled stibnite (?).
			26-28m - Minor non-limonitic qz-monzonite (AQM)
36.0	44.0	LAQM	LAQM: 3% Lim, 3% Py, 4% Aspy, Cf, So, Bz, fb 55:45 AQM
			AQM: tr Lim, 5% Aspy, Co, So, Bz
			LAQM: AQM 55:45 Mixture of moderately
			pervasively limonitic strongly altered quartz-
			biotite monzonite (LAQM) and unoxidized,
			similarly altered qz-biotite monzonite (AQM)
			3% disseminated moderately-strongly
			oxidized Fine grained pyrite in LAQM;
			5% disseminated, fine grained arsenopyrite
			in AQM, 4% in LAQM. Weak carbonate
			alteration of LAQM.
44.0	52.5	AQM	tr Lim, 2% Aspy, Cf, So, Bz
			Strongly altered quartz-biotite monzonite,
			2-3% disseminated fine grained arsenopyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1650

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			decreasing with depth. Minor
			fracture controlled, partially pervasive
			limonite, decreasing with depth. (Same
			unit as 36-44m, less limonitic). Weak
			carbonate alteration.
52.5	58.0	ARGV	Co, S, SiS
			Weakly graphitic argillite, weak quartz
			stockwork
58.0	61.0	AQM	tr Lim, 7% Py, 3% Aspy, C1, So, B3, Po
			Buff coloured strongly altered quartz mon-
			zonite, minor fracture controlled limonite,
			6-9% disseminated, fine grained, unoxidized
			pyrite, 2-4% fine grained disseminated
			arsenopyrite, trace scorodite. Weak
			carbonate alteration.
61.0	67.5	ARGV	Co, So
			Moderately graphitic argillite, minor quartz
			stockwork with fine grained unoxidized
			pyrite from 64-66m
67.5	75.0	AQM	tr Lim, 11% Py, tr Aspy, C2, So, B3, Po
			Strongly altered quartz-biotite monzonite,
			trace spotty limonite, 8-15% fine grained
			disseminated unoxidized pyrite, increasing
			with depth, tr-1% disseminated arseno-
			pyrite, decreasing with depth. Moderate
			carbonate alteration.
75.0	82.0	ARGV	2% Py, Co, S, Po SS
			Weakly-moderately graphitic argillite, 1-3%

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1658

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			fine grained fracture + foliation controlled pyrite (diagenetic?), weak quartz stockwork from 78-82m
82.0		EOH	End of hole : bit plugged

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-1659

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4.5	OVBN	Overburden
4.5	8.0	LQM	3% Lim, tr Py, C2, S1, B1-2, P3
8.0	10.0	LAQM	LAQM: 3% Lim, 2% Py, tr aspy, C3, S1, SK, 70/30 LQM
			LQM: 3% Lim, C3, S1
10.0	12.0	LQM	1% Lim, C1, So, B1
12.0	13.5	LAQM	LAQM: 3% Lim, 3% Py, C3, So, B2-3, P1, 55:45 LQM
			LQM: 1% Lim, C2, So, B3
13.5	26.0	ARGG	tr Lim, Co, S1 SK
26.0	36.5	SH	Co, S1 SK
36.5	40.0	AQM	6% Py, Co, So, B3, Po
40.0	51.0	ARG(SH?)	tr Py, Co, S2, Po
51.0	58.5	AQM	8% Py, C1, So, B3, Po
58.5	61.0	ARG(SH?)	3% Py, Co, S3, Po SK
61.0	67.0	AQM	3% Py, C1, So, B3, Po
67.0	70.5	QM	1% Py, C1, So, B1, Po
70.5	74.0	AQM	8% Py, C1, So, B3, Po
74.0	94.0	SH(ARG?)	Co, S1 SK
94.0		EOH	END OF HOLE

3.0 m. ex counted

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-1659

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4,5	OVBN	Overburden.
4,5	8.0	LQM	3% Lim, tr Py, C_2, S_1, B_{1-2}, P_3. SK
			Moderate, pervasive limonite in weakly altered quartz-biotite monzonite, weak-moderate biotite alteration. Minor altered qz-biotite monzonite (LAQM), location of minor oxidized pyrite. Weak quartz stockwork
8.0	10,0	LAQM	LAQM: 3% Lim, 2% Py, tr Aspy, C_3, S_1, SK, P_2 - 70:30 LQM
			LQM: 3% Lim, C_3, S_1 SK
			LAQM:LQM 70:30: Mixture of strongly altered, moderately pervasively limonitic quartz-biotite monzonite (LAQM) and similarly limonitic weakly altered qz-biotite monzonite (LQM). 2% fine grained strongly-moderately oxidized disseminated pyrite. Strong carbonate alteration throughout, although difficult to distinguish. Weak ~~silica~~ quartz stockwork.
10.0	12.0	LQM	1% Lim, C_1, So, B_1
			Weak, spotty + fracture controlled limonite, in quartz-biotite monzonite, weak carbonate alteration.
12.0	13,5	LAQM:	LAQM: 3% Lim, 3% Py, C_3, So, B_{2-3}, P_3 55:45 LQM
			LQM: 1% Lim, C_2, So, B_1
			LAQM:LQM 55:45, Mixture of moderate, pervasively limonitic strongly altered qz-biotite monzonite (LAQM), and weakly limonitic

3,0 m. excavated.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 165-9

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			almost unaltered quartz-biotite monzonite
			In LAQM, 3% fine grained, disseminated,
			strongly oxidized pyrite. Strong carbonate
			alteration in LAQM; moderate in LQM.
13.5	26.0	ARGG	tr Lim, Co, S, SK
			weakly graphitic argillite, weak quartz
			stockwork. Moderately fractured, with trace
			fracture controlled limonite, from 13.5-20.0m,
			+minor LAQM, weakly pyritic, and AQM,
			moderately pyritic (Total <10%).
26.0	36.5	SH	Co, S, SK
			Grey, fairly soft, weakly foliated shale.
			Appearance + texture similar to ARGG from
			13.5-26.0m, lighter colour
36.5	40.0	AQM	6% Py, Co, So, Bx, Po
			Strongly altered buff-green qz-biotite mon-
			zonite. 6% disseminated, unoxidized, med-fine
			grained pyrite. 36.5-38.0m. Local coarse
			pyrite, pyritic aggregates. Minor unaltered qz-monzonite
40.0	51.0	ARG	tr Po, Co, Sz, Po SK
		(SH?)	Med-dark grey, weakly foliated argillite
			(possibly shale, texture otherwise resembles
			argillite). Moderate quartz stockwork,
			minor fracture controlled fine grained
			pyrite.
51.0	58.5	AQM	8% Py, C+, So, Bx
			Buff-green, strongly altered quartz-biotite
			monzonite. 8%, fairly uniform, medium grained

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1659

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			unoxidized pyrite, local semi-massive pyrite from 56-58m. Weak carbonate alteration from 54-58m. Minor unaltered qz-biotite monzonite from 56-58.5m
58.5	61.0	ARG (CSH?)	3% Py, Co, Sy, Po SK Med. grey argillite (shale?), strong quartz stockwork + minor unoxidized pyrite. 2-3% foliation controlled unoxidized pyrite, fine grained, in argillite - diagenetic?
61.0	67.0	AQM	3% Py, C1, So, By, Po Green-buff, strongly altered qz-biotite monzonite weak carbonate alteration, minor unaltered qz-biot-monzonite (QM), 2-4% disseminated + fracture controlled (future occuring as semi-massive aggregates) pyrite, except 7% from 64-66m.
67.0	70.5	QM	1% Py, C1, So, By, Po Green-buff, weakly altered qz-biotite monzonite Biotite weakly altered, moderate feldspar alteration. 1-2% fracture controlled fine grained pyrite, weak carbonate alteration.
70.5	74.0	AQM	8% Py, C1, So, By, Po Green-buff strongly altered quartz biotite monzonite, minor unaltered biotite, 8% med-fine grained disseminated unoxidized pyrite, weak carbonate alteration
74.0	94.0	SH (ARG?)	Co, S1 SK Med. grey, weakly laminated + foliated shale

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1659

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			(possible non-graphitic argillite). Weak-moderate quartz stockwork
94.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1665

Page 1 of 1

Logged by: Carl Schulz

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	OVBN	Overburden
1.5	3.0	LAQM	2% Lim, 3% Py, Co, S1, B2-3, P3
3.0	12.5	ARGG	tr Lim, Co, S1, SK
12.5	21.5	SST (SLT?)	1% Lim, 2% Py, C1, So, P2 (C Co from 18-21.5m)
21.5	28.0	ARGG	tr Lim, Co, S1 SK
28.0	35.5	SST (SLT?)	28-32m: 1% Lim, 4% Py, C2, So, P2
			32-35.5m: tr Lim, 2% Py, Co, So, P2
35.5	38.5	ARGG	ARGG: tr Lim, Co, So 60:40 SST
			SST: 1% Lim, 3% Py, C1, So, P3
38.5	40.0	SST	1% Lim, 3% Py, C1, So, P2
40.0	42.0	ARGG	ARGG: tr Lim, C1, So 75:25 SST
			SST: 2% Lim, 3% Py, Co, So, P2
42.0	46.0	SST	ARGG: tr Lim, Co, So 60:40 ARGG
			SST: 1% Lim, 2% Py, C1, So, P2
46.0	48.0	ARGG	tr Lim, C1, So
48.0	50.0	SST	1% Lim, 1% Py, C2, So, P2
50.0	54.0	ARGG	tr Lim, C1, So
54.0	62.0	ARGG	ARGG: tr Lim, Co, So 55:45 SST
			SST: 1% Lim, 4% Py C1, So, Po -2
62.0	65.0	ARGG	tr Lim, C1, S2 SK
65.0	67.5	LAQM	2% Lim, 5% Py, C1, S2, B3, P1
67.5	70.5	ARGG	C1, S1 SK
70.5	89.0	SST (SLT?)	tr Lim, 2% Py, C1, S1, Po SK
89.0	91.0	ARGG	tr Py, Co, S2, Po
91.0	104.0	SST (SLT?)	4% Py, C1, S1, Po SK - partial
104.0	111.0	ARGG	tr Lim, Co, S1 SK
111.0	115.0	CH	Co, So
115.0		EOH	END OF HOLE: rods getting stuck - sloughing

2.0 Lim, extra tool

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 # 1665

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	OVBN	Overburden
1.5	3.0	LMQM	2% Lim, 3% Py, Co, Si, B2-3, P3
			weak, pervasive limonite in strong-moderately
			altered qz-biotite monzonite, 3% disseminated
			+ fracture controlled pyrite, fine grained +
			strongly oxidized. Weak silica stockwork,
			minor weakly oxidized biotite, suggesting minor
			LQM
3.0	12.5	ARGL	tr Lim, Co, S1, SK
			Weakly graphitic grey-black argillite, tr-1%
			limonite along foliation + fine fracture
			system. Weak quartz stockwork. Minor
			(<10%) tan-grey siltstone + disseminated
			pyrite
12.5	21.5	SST (SLTST)	1% Lim, 2% Py, C1, So, P2 (Co from 18-21.5m)
			Tan-light grey, moderately laminated, weakly
			foliated siltstone (Steele Formation?). Tr-
			1% foliation + fracture controlled limonite,
			2-3% similarly located fine grained
			moderately oxidized pyrite. Weak carbon-
			ate alteration from 12.5-18m. Minor grey-
			black argillite throughout.
21.5	28.0	ARGL	tr Lim, Co, S1, SK
			Weakly graphitic argillite, weak quartz stock-
			work. Trace fracture controlled limonite. Minor
			grey siltstone (not SST), strongest from
			22-24m.

2.0 m. oriented

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1665

Page 2 of 5

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
28.0	35.5	SST (SLT)	1% Lim, 4% Py, C_2, So_0, P_2 (28-32.0m)
			tr Lim, 2% Py, Co, So_0, P_2 (32-36m)
			Variably limonitic foliated, fine grained siltstone (Steele Formation?), 1% foliation, probably laminae controlled limonite, 4% foliation + fracture controlled pyrite, fine grained, weak-moderately oxidized, from 28-32.0m, 2% similar pyrite from 32-36m. Moderate carbonate alteration from 28-32m, weak fine silica stockwork in selective limonitic fragments from 34-35.5m.
35.5	38.5	ARGG	ARGG: tr Lim, Co, So 60:40 SST
			SST: 1% Lim, 3% Py, C_1, So_0, P_3
			ARGG:SST 60:40, Mixture of grey-black weakly graphitic argillite (ARGG), weakly limonitic and tan weathered sandstone (SST - Steele formation?) 3% fine grained, foliation + fracture controlled fine grained pyrite in SST, with weak carbonate alteration
38.5	40.0	SST	1% Lim, 3% Py, C_1, So_0, P_2
			Weakly limonitic siltstone, tan to grey colour, 3% fine grained, foliation + fracture controlled pyrite, not oxidized. Weak carbonate alteration
40.0	42.0	ARGG	ARGG: tr Lim, C_1, So_0 75:25 SST
			SST: 2% Lim, 3% Py, Co, So_0, P_2
			Mixture, 75:25 ARGG:SST, of weakly

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1665

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			graphitic argillite (ARGG), trace fracture controlled limonite; and tan weathered weakly foliated siltstone (SST). 3% fracture + foliation controlled, fine grained, moderately oxidized pyrite in SST; weak carbonate alteration of ARGG.
42.0	46.0	SST:	SST: 1% Lim, 2% Py, C1, So, P2 60:40 ARGG
			ARGG: tr Lim, Co, So
			SST: ARGG 60:40. Mixture of tan-light grey siltstone (SST - Steele Formation?) and weakly graphitic argillite (ARGG) with trace fracture controlled limonite. 1% fracture + foliation controlled limonite in SST, associated with 2% fine grained, weakly-moderately oxidized pyrite (locally unoxidized). Weak-moderate carbonate alteration of SST.
46.0	48.0	ARGG	tr Lim, C1, So.
			weakly graphitic argillite, weak carbonate alteration, fracture controlled limonite.
48.0	50.0	SST	1% Lim, 1% Py, C2, So, P2
			Grey, locally tan siltstone (Steele Form), 1% foliation + fracture controlled limonite assoc. with 1% fine grained, moderately oxidized pyrite. Moderate carbonate alteration. Minor graphitic argillite.
50.0	54.0	ARGG	tr Lim, C1, So
			Weakly graphitic argillite, trace fracture controlled limonite. Moderate carbonate alteration from 50-52m.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 16685

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Minor light grey siltstone
54.0	62.0	ARGG	ARGG: tr Lim, Cc, So 55:45 SST
			SST: 1% Lim, 4% Py, Pe/P2 C (depends on oxidation), C1, Se
			ARGG: SST 55:45: Mixture of weakly graphitic argillite (ARGG) with trace fracture controlled limonite; and grey-tan siltstone (Stuche Formation?). SST either moderately oxidized (tan) or unoxidized (grey) - roughly equal portions. 4-5% pyrite, respectively moderately oxidized or unoxidized; fine grained, disseminated - foliation controlled. Weak carbonate alteration in SST.
			Decreasing SST:ARGG ratio with depth
62.0	65.0	ARGG	tr Lim, C1, S2 SK
			Moderately graphitic argillite, increasing ductile quartz stockwork to 65.0m, weak carbonate alteration, trace fracture controlled limonite.
65.0	67.5	LAQM	2% Lim, 5% Py, C1, Se, P2, P1
			Weak, pervasive limonite in strongly altered qz-biotite monzonite, 4-5% med-fine grained weakly oxidized disseminated pyrite; weak carbonate alteration.
67.5	70.5	ARGG	C1, S1 SK
			moderately graphitic argillite, weak ductile fracture controlled quartz stockwork, minor carbonate alteration.
70.5	89.0	SST(SILT)	tr Lim, 2% Py, C1, S1, Po SK

LOKI GOLD CORPORATION

LITHOLOGY LOG

1665

HOLE-ID: RC 96 ~~1666~~

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Light grey, weakly foliated siltstone (Steele Formation?) Variable pyrite concentration, from tr-3%; fine grained, fracture controlled foliation controlled, weakly oxidized from 70-72m, then unoxidized. Weak carbonate alteration, intermittent weak quartz stockwork. Limonite, weak, fracture controlled.
89.0	91.0	ARGF	tr Py, Co, Sz Po
			Weakly graphitic argillite, weak quartz stockwork + trace pyrite.
91.0	104.0	SST(cgl?)	4% Py, Cy, Sz, Po SK (partial)
			Light grey weakly laminated siltstone, 3-5% fracture controlled, laminae controlled and disseminated pyrite, fine grained and unoxidized. Weak-moderate fine silica stockwork - blurred appearance suggests weak pervasive silicification. Weak quartz stockwork also. Weak carbonate alteration. Minor ARGF from 94-96m. Local brecciated SST from 100-102m.
104.0	111.0	ARGF	tr Lim, Co, Sz SK
			Weakly graphitic argillite, trace fracture controlled limonite, weak quartz stockwork, 106-108m; ≈20% grey siltstone, 3% Py, very fine grained.
			104-106m; Local Qz-pyrite veins.
111.0	115.0	CH	Co, Sz.
			Black chert, resembles argillite, conchoidal fracture.

115.0 EOH END OF HOLE - sloughing, rods getting stuck.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4	OVBN	Overburden
4	10	ARGG	A GG: tr Lim, C2, So 65:35 SST
			SST 2% Lim, 3% Py, C2, So, P2
10	18	SST	SST: 1% Lim, 5% Py, C2, So, P2 70:30 ARGG
			ARGG: tr Lim, Co, So
18	22	ARGG:	ARGG: tr Lim, C2, So 70:30 SST
			SST: 1% Lim, 6% Py, C2, So, P2
22	38.5	ARGG	tr Lim, C1, S1 SK
38.5	44.0	SST	2% Lim, 6% Py, C1, S1, P1 SK
44.0	54.0	ARGG	tr Lim, Co, S2 SK
54.0	58.5	SST	SST: 2% Lim, 5% Py, C1, So, P2 70:30 ARGG
			ARGG: tr Lim, Co, So
58.5	64.0	ARGG	tr Lim, Co, So
64.0	65.0	LAQM	4% Lim, 10% Py/Po, C2, So, P1
65.0	82.0	ARGG	C2, So
82.0	84.5	AQM	tr Lim, 3% Py, C2, So, B3, Po
84.5	100.0	ARGG	84.5-94.0m: Co, So
			94-100m: C1, S1, SK
100.0	105.0	AQM:	AQM: tr Lim, 5% Py, C2, So, B2, Po 70:30 ARGG
			ARGG: Co, S2 partial SK
105.0	114.0	SLT	105-108m: 2% Py, C1, S2, Po SK
			108-114m: C3, S1
114.0	116.0	SLT:	SLT: 1% Py, C1, S1, Po SK 65:35 MT
			MT: tr Py, C3, S1, Po SK
116.0	118.0	ARGG	ARGG: tr Py, Co, S1, Po SK 65:35 MT
		65:35	MT: C2, So
118.0	120.0	SLT	tr Py, C3, S1, Po

4 m. FILL

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
120.0	122.0	MTuff	MTuff: 3% Py, C3, S1, Po 60:40 MT
			SLT: tr Py, C1, So, Po
122.0	130.0	MTuff	MTuff: tr Py, C2, S1, Po 55:45 MT
			ARGG: tr Py, C1, So, Po
130.0	132.0	MTuff	tr Lim, 1% Py, C3, S1, Po SK
132.0	142.0	MTuff	MTuff tr Py, C3, S1, Po SK 55:45 MT
			SLT: Co, S1 SK
142.0		EOH	END OF HOLE - excessive water

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 9E 1666

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4	OVBN	Overburden
4	10	ARGG	ARGG: tr Lim, C2, So 65:35 SST
			SST: 2% Lim, 2% Py, C2, So, P2
			65:35 ARGG:SST: Mixture of argillite, weakly graphitic (ARGG) + trace fracture controlled limonite; and tan-grey fine grained weakly foliated siltstone (Steele Formation?) 1-4% fine grained weak-moderately oxidized disseminated + fracture controlled pyrite in SST. Limonite content varies, suggesting SST is laminated, variably permeable.
10	18	SST	SST: 1% Lim, 5% Py, C2, So, P2 70:30 ARGG
			ARGG tr Lim, Co, So
			SST:ARGG 70:30 Mixture of weakly graphitic argillite (ARGG), trace fracture controlled limonite, strong fracture controlled carbonate from 12-14m; and beige-grey fine grained Steele Formation siltstone (SST), weakly foliated, moderately laminated. 2-8% Fine grained, laminae controlled moderately oxidized pyrite & in SST, increasing with depth. Moderate variable carbonate alteration in SST.
18	22	ARGG	ARGG: tr Lim, C2, So 60:40 SST
			SST: 1% Lim, 6% Py, C2, So, P2
			ARGG:SST 60:40. Mixture of similar siltstone (Steele Formation) + argillite to interval from 10-18m: different proportions. In SST, 6% fine grained, laminae controlled

4m. fill

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			moderately oxidized pyrite. Moderate carbonate alteration in both rock types
22	38.5	ARG-C	tr Lim, C_1, S_1 SK
			Grey-black, weakly graphitic argillite, weak pervasive limonite. Weak quartz stockwork, carbonate alteration.
38.5	44.0	SST	2% Lim, 6% Py, C_1, S_1, P_1 SK
			Tan-grey Steele Formation C?) siltstone, selectively oxidized limonitic, ±fracture controlled limonite, Laminated, selectively mineralized, also selectively oxidized. 6% fine grained weakly oxidized or unoxidized to pyrite, foliation controlled to disseminated. Weak carbonate alteration, weak quartz stockwork.
			Minor argillite from 40-42m.
44.0	54.0	ARG-C	tr Lim, Co, S_2 SK
			Weakly graphitic argillite, strong quartz stockwork (brecciated?) from 44-50m, weaker from 50-54m. Tr-1% fracture controlled limonite. Minor weakly pyritic siltstone from 50-52m
54.0	58.5	SST	SST: 2% Lim, 5% Py, C_1, So, P_2 70:30 ARG-C
			ARG-C: tr Lim, Co, So
			SST: ARG-C 70:30. Mixture of weakly graphitic argillite (ARG-C) and tan-grey siltstone (Steele Formation - SST). In SST, 2% fracture + laminae controlled limonite, with

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

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Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			5-6% fine grained, weakly-moderately oxidized pyrite. weak carbonate alteration from 54-56m
58.5	64.0	ARGG	tr Lim, C0, So Moderately graphitic argillite, weak silica stockwork + limonite from 58.5-64.0m, weak carbonate from 62-64m
64.0	65.0	LAQM	4% Lim, 10% Py, C2, So, Pl Mixed strongly altered qz-biotite monzonite +similarly, strongly pervasively limonitic AQM. 10% unoxidized + weakly oxidized pyrite, depending on limonite content; pyrite is Fine-medium grained, disseminated. Moderate carbonate alteration.
65.0	82.0	ARGF	C2, So Moderately graphitic argillite, moderate-strong carbonate alteration.
82.0	84.5	AQM	tr Lim, 3% Py, C2, So, Bz, Po Strongly altered quartz monzonite, trace fracture controlled limonite, 3% disseminated, unoxidized, Fine grained pyrite, moderate carbonate alteration
84.5	100.0	ARGG	C2, So (84-94m) C1, S, SS (94-100m) Moderately graphitic argillite, weak quartz stockwork from 94-100m. Moderate carbonate alteration from 84.5-94m; weak from 94-100m

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
100.0	105.0	AQM:	AQM: tr Lim, 5% Py, C2, So, B3, Po 70:30 ARGG
			ARGG: Co, S3 – partial SK
			70:30 AQM:ARGG: Buff coloured strongly
			altered qz-monzonite (AQM) and
			brecciated, strongly pervasively silicified
			argillite (ARGG), also with moderate
			quartz stockwork. In AQM, 5% unoxidized,
			fine grained, disseminated pyrite. Strongly
			brecciated argillite contains mafic tuff siliceous matrix,
			included as AQM. Moderate
			carbonate alteration in AQM.
105.0	114.0	SLT	105-108m: 2% Py, C1, S3, Po SK
			108 - 114m: C3, S1 SK
			Medium grey weakly laminated, foliated
			siltstone, Strong quartz stockwork
			with minor (up to 2%) unoxidized pyrite from
			105-108m, with weak carbonate alteration.
			Locally brecciated. Very strong carbonate
			alteration from 108-114m - calcareous siltstone,
			fairly pervasive carbonate, associated with weak
			quartz stockwork.
114.0	116.0	SLT:	SLT: 1% Py, C1, S1, Po SK 65:35 MT
			MT: tr Py, C2, S1, Po SK
			SLT: MT 65:35 Mixture of med-dark grey
			siltstone (SLT), weakly calcareous, weak fine
			quartz stockwork + 1% fine grained unoxidized
			foliation controlled pyrite, and course,
			~~poorly sorted greywacke GWT possible~~
			mafic tuff, variable clast size

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			~~chert pebble conglomerate~~). Trace disseminated pyrite, unoxidized, strong carbonate alteration, weak sericite development in GW.
116.0	118.0	ARGG	ARGG: tr P, Co, S, Po SK 65:35 MT
			MT: C2, So SK
			ARGG: 65:35, Mixture of weakly graphitic argillite, mixed with minor SLT, trace Po, weakly laminated (ARGG); ~~and coarse, poorly sorted greywacke (GW)~~ - matrix tuff same rock type as GW from 114-116m - possible CPC. Moderate carbonate alteration of GW.
118.0	120.0	SLT	tr P, C3, S, Po
			Grey, weakly foliated + laminated siltstone, strong carbonate alteration, weak fine silica stockwork. Trace foliation controlled fine grained unoxidized pyrite.
120.0	122.0	MTuff	MTuff 3% P, C2, S, Po 60:40 SLT
			SLT: tr P, C, So, Po
			MTuff SLT 60:40: Mixture of poorly sorted ~~coarse grained greywacke (Chert Pebble Conglomerate?)~~ matrix tuff, and dark grey siltstone (SLT) 3% fine grained, unoxidized, replacement style(?) pyrite in GW, with strong carbonate alteration + fine silica stockwork. Trace unoxidized pyrite + weak carbonate alteration in SLT
122.0	130.0	MTuff	MTuff tr Py, C2, S, Po 55:45 ARGG
			ARGG: tr Py, C, So, Po

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1666

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			~~GW~~ ; ARGK SS;45 ; Mixture of ~~poorly~~ matrix tuff variable clast size ~~sorted~~ greywacke (GW - same unit as 120-122m and grey-black, weakly laminated argillite (ARGK), weakly graphitic. Tr-1% finely grained, disseminated unoxidized pyrite, med. carbonate alteration of MT; tr-1% fine grained, laminae controlled, unoxidized pyrite (diagenetic?) in ARGK, weak carbonate alteration. Weak pervasive silicification, moderate biotite alteration (?) in greywacke, becomes weakly foliated with depth.
130.0	132.0	MTuff	tr Lim, 1% Py, C_3, S_1, Po SK Same mafic tuff as from 120-130 m; 1% very fine grained disseminated unoxidized pyrite, strong carbonate alteration, weak quartz stockwork.
132.0	142.0	MTuff	MTuff tr Py, C_3, S_1 Po SS;45 SLT SLT: Co, S_1 SK MTuff SLT SS;45 : Mixture of same tuff unit from 120-132m (MT) and somewhat coarser grained siltstone (SLT) than overlying SLT. Tr-1% fine grained, replacement style, unoxidized pyrite, strong carbonate alteration and local quartz stockwork in mafic tuff. Weak quartz stockwork in siltstone. Minor tan colored weakly pyritic siltstone from 140-142m (Steele Formation)
142.0	EOH		END OF HOLE - too much water

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1667

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2	CV	Overburden
2	9.5	LAQM	2% Lim, 5% Py, C_3, So_3, B_3, P_3
9.5	14.0	ARGL	tr Lim, Co_3, S_3 SK
14.0	18.5	LAQM	2% Lim, 10% Py, C_1, S_3, B_3, P_1
18.5	49	ARGL	Co_3, S_1 SK
49		EOH	End of hole

2 m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1667

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Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2		Overburden
2	9.5	LAQM	2% Lim, 5% Py, C_3, Se_3, Bz_3, P_3
			Weak, pervasive limonite, moderate from 8-10m,
			within strongly altered quartz-biotite monzonite.
			Variable Pyrite concentration, from 1-8%, dissem-
			inated + weakly fracture controlled, med. grained.
			Strongly ~~altered~~ oxidized from 2-6m, med-weakly oxidized
			pyrite from 6-10m. Strong carbonate alteration
9.5	14.0	ARGG	tr Lim, Co_3, S_3
			Weakly graphitic ~~fine~~ argillite, strong quartz
			stockwork. Trace fine fracture controlled
			limonite
14.0	18.5	LAQM	2% Lim, 10% Py, C_1, S_2, Bz_3, P_1
			Weak, pervasive limonite within quartz
			monzonite, 10% disseminated, fine grained,
			weakly oxidized to unoxidized Pyrite.
			Strong quartz stockwork, weak carbonate
			alteration
18.5	49	ARGG	Co_3 S_1 SK
			Weak-moderately graphitic argillite, weak
			quartz stockwork, locally fine.
			Minor LAQM from 34-36m
49		EOH	END OF HOLE

2m excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1668

Logged by: Curl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	2.5m	CV	Overburden	
2.5	8.0m	LAQM	2% Lim, 5% P_3, C_1, So_0, B_{2-3}, P_3	
8.0	10.0m	LQM	3% Lim, C_1, So_0, B_{1-2}	
10.0	29.0	LAQM	3% Lim, 7% P_{yy}, C_1, So_0, B_{3-4}, P_1	
29.0	35.0	ARGL	tr P_y, Co, S_2	SK
35.0	39.5	LAQM	2% Lim, 9% P_{yy}, C_1, S_3, B_{3-4}, P_1	SK
39.5	60.0	ARGL	tr Lim, Co, S_2	SK
60.0		EOH	END OF HOLE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1668

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.5		Overburden
2.5	8.0	LAQM	2% Lim, 5% Py, C_1, So_2, B_2, P_3
			Weak, pervasive limonite in slightly bleached
			strongly altered qz-biotite monzonite.
			5% disseminated + fracture controlled strongly
			oxidized fine grained pyrite to 6.0m: pyrite is
			unoxidized from 6-8m. Weak fracture
			controlled manganese, weak carbonate alteration.
8.0	10.0	LQM	3% Lim, C_1, So_2, B_{1-2}
			Moderate pervasive limonite in weakly altered
			qz-biotite fine monzonite, weak carbonate
			alteration.
10.0	29.0	LAQM	3% Lim, 7% Py, C_1, So_2, B_2, P_1
			Mod-weak pervasive limonite, enriched along
			fractures, in strongly altered qz-biotite mon-
			zonite. 3-9% pyrite, variable concentration,
			highest from 12-18m; disseminated, fine grained
			(locally medium grained), weakly oxidized to
			unoxidized. Weak carbonate alteration, moderate
			from 18-24m. Weak quartz stockworks from
			24-28m
29.0	35.0	ARGG-	tr Lim, Cp, S_2 SK
			Weak-moderately graphitic argillite, increasing
			quartz stockwork with depth. Trace limonite
			along fractures. Minor LAQM from 32-34m
35.0	39.5	LAQM	2% Lim, 9% Py, C_1, S_3, B_2, P_1 SK
			Weak pervasive limonite within strongly altered
			quartz biotite monzonite, 9% fine grained,

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1668

Logged by: Carl Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			disseminated Clocally fracture controlled),
			weakly oxidized - moxidized pyrite. Weak
			carbonate alteration, strong quartz stockwork
			particularly to lower contact.
39.5	60	ARGG	tr lim, Cc, Sz SK
			Weak - moderately graphitic argillite, moderate,
			variable quartz stockwork, best developed from
			54 - 58m. Weak carbonate alteration from
			44 - 48m. Trace fine fracture controlled limonite
60		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1669

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4.9m	OVBN	Overburden
4.9	20m	LAQM	4.9-12m: 4% Lim, 4% P_3, Co, S_1, P_3 SK
			12-20m: 3% Lim, 6% P_{fg}, C_1, S_2, P_1 SK
20	23.0	AQM	AQM: tr Lim, tr Py, C_1, S_1, B_3, P_3 SK 60:40 ARLG
			ARLG: tr Lim, Co, S_3 SK
23.0	26.0	LAQM	3% Lim, 11% P_{fg}, C_1, S_2, B_3, P_1 SK
26.0	27.0	ARLG	Co, S_3 SK
27.0	32.5	LAQM	2% Lim, 7% P_{fg}, C_1, So, B_3, P_1
32.5	49.	ARLG	32.5-44m: Co, S_1 SK
			44-49m: C_3, S_2 SK
49		EOL	END OF HOLE

0.5 m. excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-1669

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	4.9	OVBN	Overburden
4.9	20	LAQM	4% Lim, 4% Py, Co, S_1, P_3 SIS (4.9-12m)
			3% Lim, 6% Py, C_1, S_2, P_1 SK (12-20m)
			Mod - strong pervasive limonite within strongly
			altered qz-biotite monzonite. Strongest limonite
			near surface. From 5-12m, 4% strongly altered
			disseminated + fracture controlled fine grained
			pyrite; 12-20m, 6% weakly oxidized pyrite,
			disseminated, fine grained. Weak carbonate alter-
			ation, strong ~~sil~~ quartz stockwork towards lower
			contact.
20	23.0	AQM	AQM: tr Lim, tr Py, C_1 S_2, B_2, P_3 SK 60:40 ARGG
			ARGG: tr Lim, Co, S_2 SK
			60:40 mixture of AQM: ARGG.
			AQM: weak pervasive limonite (outside of
			quartz veins) in strongly ~~alt~~ altered
			quartz-biotite monzonite. Trace fracture
			controlled strongly oxidized Pyrite. Weak
			carbonate alteration, strong quartz stockwork.
			ARGG: weakly graphitic, strong quartz stockwork,
			locally brecciated.
23.0	26.0	LAQM	3% Lim, 11% Py, C_1, S_2, B_2, P_1 SK
			Moderate, pervasive limonite, locally fracture
			controlled, in strongly ~~oxi~~ altered qz-biotite
			monzonite. 11% disseminated, fine grained pyrite,
			weakly oxidized. Weak carbonate alteration,
			moderate silica stockwork.
26.0	27.0	ARGG	Co, S_2 SK

0.5 m, excavation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1669

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Weakly graphitic argillite, brecciated, with strong quartz stockwork
27.0	32.5	LAQM	2% Lim, 7% Py, C_1, So, B_2, P_1
			Weak-moderate, pervasive limonite within strongly altered quartz-biotite monzonite
			7% fine grained, (& minor med. grained from 30-32m) weakly oxidized, disseminated pyrite.
			Weak carbonate alteration.
32.5	49.0	ARQM	32.5-44m: C_0, S_1 SIS
			44-49m: C_3, S_2 SK
			Moderately graphitic argillite, weak quartz stockwork, moderate from 44-49m, mixed with carbonate stockwork from 44-49m.
49		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1670

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)	
0	5	LAQM	4% Lim, 6% Py, C2, So, B3, P2	
5	17	ARGG	tr Lim, Co, S2	SK
17	18,5	LAQM	3% Lim, 4% Py, C1, S1, B3, P1	
18,5	19,5	ARGG	Co, S1	SK
19,5	25	LAQM	3% Lim, 5% Py, C1, So, B3, P1	
25	30	ARGG	C1, S2	SK
30	34	SST	SST: tr Lim, 6% Py, C1, S2, P1	SK So; So ARGG
			ARGG: tr Lim, Co, S1	SK
34	35	ARGG	tr Lim, Co, So.	
35	40	LAQM	2% Lim, 9% Py, C2, S2, B3, P1	SK
40		EOH	END OF HOLE	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1670

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	5	LAQM	4% Lim, 6% Py → C_2, So, B_3, P_2
			Mod-strong pervasive limonite within strongly
			altered quartz-biotite monzonite, 6% fine
			grained, mod. oxidized, disseminated pyrite,
			lesser amounts from 0-2m may represent
			surface weathering. Mod-strong carbonate alt-
			eration.
5	17	ARGG	tr Lim, Co, S_2 SK
			Weakly graphitic argillite, weak-moderate
			quartz stockwork, variable. Trace fracture
			controlled limonite.
17	18.5	LAQM	3% Lim, 4% Py, C_1, S_1, B_3, P_1
			Moderate limonite alteration within strongly
			altered qz-biotite monzonite, 4% med-grained
			weakly oxidized disseminated pyrite,
			weak carbonate alteration, silica stockwork
18.5	19.5	ARGG	Co, S_1 SK
			Weakly graphitic argillite, weak quartz
			stockwork
19.5	25	LAQM	3% Lim, 5% Py, C_1, So, B_3, P_1
			Moderate, pervasive limonite, weakening with depth,
			4-7% fine grained, disseminated, weakly oxidized
			to unoxidized pyrite. Weak carbonate alt-
			eration.
25	30	ARGG	C_1, S_2, SK
			Weak-moderately graphitic argillite, weak
			quartz stockwork - moderate from 28-30m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC 96 1670

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
30	34	SST	SST: tr Lim, 6% P_{fg}, C_1, S_2, P_1 50:50 ARGG
			ARGG: tr lim, C_0, S_1
			Even mixture of fine grained, weakly laminated siltstone (SST?), 6% fine grained disseminated + slightly banded, weakly oxidized Pyrite + weakly graphitic argillite (ARGG)
			Limonitic stockworks in siltstone.
			30-32m: ≈ 25% LAQM; 5% P_2, C_2, S_0, B_3 — probably thin unit within sed's.
34	35	ARGG	tr Lim, C_0, S_0
			Weakly graphitic argillite, trace fracture controlled pyrite
35	40	LAQM	2% Lim, 9% P_{fg}, C_2, S_2, B_3, P_1 SK
			Weak-moderate limonite, pervasive, within strongly altered quartz-biotite monzonite.
			9% fine grained, disseminated, almost unoxidized pyrite. Moderate carbonate alteration, strong quartz stockwork along upper contact, decreasing with depth
			Hole shut down in LAQM
40		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC - 96 - 167

Page 1 of 1

Logged by: Carl Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.3	OVB	Overburden
2.3	4.0	LAQM	LAQM: 4% Lim, 5% Py, C_2, So, B_3, P_3 70:30 ARGG
			ARGG: Co, S_2 SK
4.0	6.0	ARGG	tr Lim, Co, S_3 SK
6.0	12.0	LAQM	LAQM: 3% Lim, 4% Py, C_2, So, B_3, P_3 50:50 ARGG
			ARGG: Co, S_3 SK
12.0	16.5	ARGG	tr Lim, C_1, S_1 SK
16.5	19.5	LAQM	3% Lim, 5% Py, C_1, So, B_3, P_1
19.5	22.0	LQM	LQM: 2% Lim, C_2, So, B_1 70:30 AQM
			AQM: 1% Lim, 6% Py, C_1, So, B_3, Po
22.0	24.5	ARGG	Co, S_2 SK
24.5	30.0	LAQM	2% Lim, 5% Py, C_2, So, B_3, Po
30.0	36.0	ARGG	ARGG: tr Lim, Co, S_3 SK 55:45 LAQM
			LAQM: 2% Lim, 7% Py, C_1, So, B_3, P_1
36.0	41.5	LAQM	2% Lim, 5% Py, C_2, So, B_3, P_1
41.5	45.0	ARGG	Co, S_3 SK
45.0	49.0	LAQM	2% Lim, 9% Py, C_2, S_1, B_3, Po
49.0	52.0	ARGG	tr Lim, C_1, S_3 SK
52.0	54.0	LAQM	1% Lim, 2% Py, C_1, S_4, B_3, Po SK partial
54.0	56.0	LAQM	LAQM: 3% Lim, 8% Py, C_2, So, B_3, P_1 75:25 AQM
			AQM: tr Lim, 10% Py, C_2, So, B_3, Po
56.0		EOH	END OF HOLE - shut down in mineralized zone

In excavation

File: d:\rc_forms\rc0896_3.doc

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-86.

Logged by: R. Dimnal (0-70m) F. Anderson (70-E.O.H.)

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.7	CASING	
2.7	18.6	SST	1% LM, sk, C
18.6	20.6	SST	60:40 CH, 2% LM, S3
20.6	24.6	SST	Tr LM, Tr Py, sk, S1,
24.6	31.3	SST	1% LM, Tr Py, sk, S1, C
31.3	38.1	SST	1% LM, 2% Py, sk, S1, C
38.1	43.5	SST	60:40 CH, Tr LM, C
43.5	47.6	SST	1% LM, 2% Py, sk S1, C
47.6	49.6	SST	60:40 CH, 1% LM, CC
49.6	57.1	SST	70:30 CH Tr LM, Tr Py, C
57.1	61.1	SST	Tr LM, Tr Py, Po, C
61.1	63.7	SST	Tr LM, C
63.7	69.9	SST	Tr LM, S1, C
69.9	71.8	ARG	65:35 SST, 1% LM, sk S1, C
71.8	74.5	FT	80 SST: 20 SH, Tr LM C1
74.5	80	SST	Tr LM, Tr Py, Sk, S2, C1
80	82.4	SST	60:40 ARGG 3% Py, sk, S2
82.4	98.6	ARGG	3% Py, S1
98.6	100	SST	Tr Py, sk, S1, C
100	100.8	ARG	sk,
100.8	107.7	SST	sk, S1, C
107.7	111.1	SST	sk, S2
111.1	115.8	ARGG	2% Py,
115.8	116.1	FT	SST
116.1	122	SST	70:30 ARG, 2% Py,
122	124.1	ARG	S1, C
124.1	129.9	SST	3% Py, Tr As* C1
129.9	130.3	FT	70:30 SST/ARGG

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-86

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
130.3	132.2	SST	1% Py, Sz, C
132.2	134.5	SST	70:30 ARG, 1% Py, C
134.5	137	SST	80:20 ARG, S1
137	140.5	SST	SK, S1, C
140.5	143	ARGG	sk, S1
143	146.9	SST	1% Py C
146.9	147.7	ARGG	sk, Sz, Bx
147.7	151.5	GW	70:30 SST, C
151.5	152.0	SHG	2% Py, sk, Sz
152.0	153.8	AGM	1% Py, Tr As,
153.8	154.9	SHG	2% Py, sk, Sz
154.9	157.4	AGM	Tr LM, Tr Py,
157.4	160.0	GM	Tr LM, C
160	164	AGM	Tr LM, 2% Py,
164	165.2	GM	Tr Py, slk, S1
165.2	166.2	AGM	Tr Py
166.2	166.8	cPC*	C
166.8	167.8	ARGG	70:30 SST, 5% Py, C
167.8	174.6	ARGG	2% Py, C
174.6	185.6	SST	70:30 ARGG, 3% Py, C
185.6	187.4	SST	60:40 ARG, 2% Py, S4
187.4	189.3	SST	1% Py, C
189.3	198.9	ARGG	7% Py, S1 C
198.9	200.7	ARGG	1% Py, slk, S4, Bx
200.7	233.5	ARGG	2% Py, sk, Sz, C
			E.O.H.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-86

Logged by: R. Diment

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	2.74	CASING	
2.74	18.59	SST	1% LM, TR SK, So, C_1-C_2,
			TAN WEATHERING, SOFT WISPY LAMINATED
			BIOTURBATED SILTSTONE. TAN TO BEIGE
			BEDS INTERCALATED WITH DARK GREY
			TO BLACK WISPY BEDS. BEDDING IS
			OFTEN DISRUPTED, CAUSED BY BURROWING
			ORGANISMS. MATRIX IS WEAK TO
			MODERATELY CALCAREOUS AND SOFT.
			TRACES OF LIMONITE LINE HAIRLINE
			FRACTURES. FRACTURES MAY ALSO CONTAIN
			FINE SILICA. DARK GREY TO BLACK
			BEDS APPEAR TO BE HARDER AND
			NON-CALCAREOUS.
18.59	20.59	SST	60:40 CH, S_3, SK, 2% LM, Co
			INTERBEDDED SEQUENCE OF TAN WEATHERING
			SILTSTONE AND BLACK CHERT. INTENSE
			FINE HAIRLINE QZ STOCKWORK LINED WITH
			LIMONITE. LIMONITE APPEARS CONFINED TO
			SILTSTONE BEDS, NON CALCAREOUS.
			NO VISIBLE SULPHIDE.
20.59	24.59	SST	Si, SK, Co, TR PY
			LIGHT GREY TO TAN WEATHERING SILTSTONE
			INTERBEDDED WITH FINE (LESS THAN 1CM WIDE)
			BLACK DISRUPTED ARGILLITE BEDS. STRONG
			QUARTZ STOCKWORK VEINING UP TO 1CM
			WIDE LINED WITH LIMONITE. STOCKWORK
			ZONES FORM LOCALIZED BRECCIA ZONES

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DF96-66

Logged by: _____

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			UP TO 6-7 CM WIDE. NO VISIBLE
			SULPHIDE WITHIN SECONDARY QUARTZ.
			QUARTZ IS PRIMARILY WHITE TO LIGHT
			GREY IN COLOUR. NON CALCAREOUS
			HAIRLINE QZ VEINLETS ARE LINED WITH
			FINE BLACK MINERAL POSSIBLY GRAPHITE
			OR FINE GRAINED SULPHIDE - TOO
			FINE GRAINED TO DISTINGUISH
24.59	31.28	SST	TR SK, C1, S1, TR PY, TR ASPY?, 1% LM
			DISRUPTED FINELY INTERBEDDED TAN
			SILTSTONE & BLACK ARGILLITE. SOFT
			WEAKLY CALCAREOUS CARBONATE APPEARS
			TO BE CONFINED TO FRACTURE SURFACES
			NOTE! 28.85 - 29.00 M A 15 CM
			WIDE LIGHT GREY SILICIFIED BED
			CONTAINS HAIRLINE SULPHIDE RICH QUARTZ
			STOCKWORK. BED APPEARS TO BE
			REPLACED WITH FINE SILICA. BLACK COLOUR
			MAY BE DUE TO FINE PYRITE & ASPY?
			TRACES OF PYRITE OCCUR THROUGHOUT
			SILICIOUS MATRIX. NON-CALCAREOUS.
31.28	38.06	SST	S_0-S_2, C2, SK, 1% LM, 2% PY
			LIGHT GREY MASSIVE SILICIOUS SILTSTONE
			TAN TO LIGHT ORANGE WEATHERING IS
			COMMON EXIBITING A MOTTLED COLOURING
			THROUGHOUT THE INTERVAL. THE NON-
			WEATHERED LIGHT GREY SILICIOUS CORE
			APPEARS HARDER AND MORE SILICIOUS.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DM6-96

Logged by: _____

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			BLACK HAIRLINE QZ STOCKWORK IS
			ALSO COMMON WITHIN THE MORE
			SILICIOUS, NON-WEATHERED SILTSTONE,
			FORMING VERY HARD SILICA REPLACED
			ZONES WITHIN THE SILTSTONE. FINE
			DISSEMINATED PYRITE IS COMMON THROUGHOUT.
			A GRADATIONAL HARDENING OR SILICA
			REPLACEMENT IS APPARENT MOVING FROM
			THE WEATHERED (CALCAREOUS) SOFT SILTSTONE INTO THE
			HARDER LIGHT GREY SILICIOUS & PYRITIC
			MATRIX, AND THEN FINALLY INTO AN
			APHANITIC LIGHT GREY GLASSY SILICIOUS
			MATRIX WITH HAIRLINE BLACK STOCKWORK.
			PYRITE CONTENT INCREASES WITH HARDNESS
			OR SILICIFICATION
38.06	43.52	SST	60:40 RH, TR SK, TR LM, CI
			INTERBEDDED SEQUENCE OF BLACK CHERT
			AND GREENISH GREY SILTSTONE. SILTSTONE
			COMMONLY FORMS DISCONTINUOUS PODS
			WITHIN CHERT; SOFT SEDIMENT DEFORMATION
			FINE HAIRLINE WHITE QZ STOCKWORK
			COMMON WITHIN BOTH CHERT & SILTSTONE
			NO VISIBLE SULPHIDE. HAIRLINE VEINLETS
			APPEAR TO CONTAIN MINOR CARBONATE &
			LIMONITE. A 10CM PIECE OF CORE
			AT 42.25 CONTAINS 3-5% LIMONITE (PERVASIVE)
			AND IS MODERATELY CALCAREOUS. SILICIFICATION
			IS VERY CONFINED TO RARE HAIRLINE QZ VEINLETS.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH96-86

Logged by: _____

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
43.52	47.55	SST	[redacted] SI, C2, SK, 1% VN, 2% PY
			SAME DESCRIPTION AS INTERVAL
			31.28 TO 38.06 M EXCEPT SLIGHTLY
			LESS SILICIOUS. NON-WEATHERED SILICIOUS
			GREY PARTS OF SILTSTONE APPEAR MORE
			PYRITIC & SILICIOUS. CALCITE VEINLETS COMMON
47.55	49.55	SST	60:40 CH, C2, SK, 1% VN
			INTENSELY STOCKWORKED INTERCALATED
			SEQUENCE OF BLACK CHERT AND TAN
			WEATHERING SILTSTONE. STOCKWORK
			CONSISTS OF HAIRLINE WHITE CALCITE VEINLETS.
			SILTSTONE IS TAN IN COLOUR, SOFT AND
			NON-SILICIOUS, CALCITE VEINLETS ARE
			LINED WITH LIMONITE. NO VISIBLE SULPHIDE
49.55	57.09	SST	70:30 CH, C1, TR SK, TR VN, TR PY, So
			INTERBEDDED SEQUENCE OF BLACK CHERT
			AND TAN SILTSTONE. SILTSTONE IS WEAKLY
			CALCAREOUS CONTAINING MINOR CALCITE
			STOCKWORK VEINLETS. NO EVIDENCE OF
			SILICA REPLACEMENT. BLACK HAIRLINE
			STOCKWORK IS ALSO COMMON LOCALLY
			AND ALSO APPEARS TO BE CALCAREOUS.
57.09	61.06	SST	SST, C2, SK, TR VN, So, Tr Py
			FINELY INTERBEDDED TAN SILTSTONE AND
			BLACK ARGILLITE WITH COARSE .1 TO .5 CM WIDE.
			QUARTZ CARBONATE VEIN STOCKWORK.
			MINOR 5-10 CM WIDE BLUEISH
			GREY SILICIOUS/PYRITIC SECTIONS WITH

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-86

Logged by: R-Dmell / F. Andersen.

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			HAIRLINE BLACK STOCKWORK. FRESH
			PYRITE IS VISIBLE LINING BLACK
			STOCKWORKS. LIMONITE IS CONFINED TO
			FRACTURE SURFACES AND QUARTZ CARBONATE
			VEINLETS.
61.06	63.69	SST	TR LM, So, C1, TR LM
			TAN TO DARK GREEN, WISPY LAMINATED
			SILTSTONE. BIOTURBATED. TRACES OF
			CARBONATE IN SILTSTONE MATRIX, MINOR
			DISCONTINUOUS QUARTZ VEINLETS .5 to 1 CM
			WIDE. NO VISIBLE SULPHIDE.
63.69	69.91	SST	TR LM SK BX, C1, S1
			grey sst with abundant white MM/hairline white
			carbonate/Fe-ox stockwork at start & end for 1 M.
			- matrix supported (qz+cb+fs?) brecciated grey
			sst to hairline black layers at 65.2M - Intrusive
			dykelet? hard, siliceous; HW & FW for 50cm either s
			- hairline black sk starts after this &
			continues to 69.91m; LM content increases
			after healed breccia zone, up to 2%
			within the sst matrix;
			- <1CM clay filled fracture, 40°->CA, cutting bedding
			* prominent fracture orientation;
			- bedding indistinct, ~30°-> C.A.
			Note: Sample intervals marked out
			before logging.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LD96-86

Aug 27 1996

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
69.91	71.79	ARG	[illegible] SH 65:35 SST, 1% LM, sk, S1, C1
			Convoluted, laminated argillite (black mud &
			dk grey sst [illegible] spaced).
			- quartz + pale yellow (clay) mm stockwork veinlets
			swelling to 1-3cm.
			- limonite coat. / pervasive alteration along
			fractures, generally 45°->CA cutting any
			resemblance of bedding.
			- core broken 40°->CA.
71.79	[illegible]	FAULT	80 SST : 20 SH, Tr LM, C1
			- brecciated, rubble fractured interval with
			quartz fragments + LM + part infilled
			- Many broken 50°->CA
			- [illegible] though interval but is pre-sampling
			[illegible] fractures at 70.5m
			- broken core ends at 72cm grey sst
			[illegible] 70°CA.
74.45	[illegible]	SST	[illegible], S2, C1
			- 5% thin quartz stockwork veinlets to 1cm
			[illegible] bleached halo associated with fracture
			stockwork [illegible]
			- [illegible] 1% - 72.5m to 73.79 to 80.1
			[illegible]

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

Logged by: E ANDERSON

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
80.01	~~82.35~~	~~A966~~	SST	60:40	A966 ~~SST~~, sk, 3% py, S2					
				- thin sst laminated beds; faint grey sk through argillite. black sk? qz+Cs? (note b) sk common.						
				- 30%-50% diagenetic py dissem. thru matrix and concentrated as pods to 2cm size;						
				- gritty lenses incorporated into packages at 81.2m.						
~~82.35~~				- broad silicified? sst intervals 81.31 - 82.3, associated with brecciated sst + clay ~~alt~~ graphitic argillite, 20 cm width at 81.55m						
82.35	98.6	A966			3% py, S1-S2					
				black, v. fine grained, soft, weakly graphitic platy argillite; 3% diagenetic py, varies up to 5% within matrix as thin, swirling beds & laminae; crackle fractured & hairline qz veined intervals mark the silicification of argillite; strongest from 90.4 to 94.m						
98.6	100	SST			Cl, TF py, sk S1					
				- grey, fine grained, weakly calcareous (cold weathered), radial, white stockwork (Hardness 4) increases near bottom of interval; trace py in matrix.						
				- bedding inferred ~65° TCA; fractures vary ~ shallow to CA						

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96 86

Logged by: E. Anderson August 22/96

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
100.0	100.8	ARG	SK							
			black, graphitic argillite, ptmx cavity fracture, clay altering pervasive hairline white stockwork; becomes							
			white SK matrix filled breccia at 100.2 m (upper							
			contact with 25cm SST bed)							
100.8	107.7	SST	SK, C_1, S_1							
			- light grey v. fine grained to grey fine grained km. rolled							
			thinly bedded siltstone, non-calcareous (cold weather)							
			- mm scale white, wk clay altering (fs?) veinlets							
			shallow (<30°) to C.A; off white 7mm to 1.5cm							
			swelling white scratchable veinlets 35° or more							
			to C.A; matrix axis pale yellow; small vug at							
			103.8 shows bladed pseudomorphic crystals (cb).							
			- bedding 65°-> C.A							
			- blocky core from 103.7m, v. broken after 107m.							
107.7	111.05	SST	SK, SK							
			- same unit, short intervals of hard massive							
			- extremely broken, fragmented core, thin							
			graphitic clayey beds; coincides with presence							
			of white/grey quartz stockworking							

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: 96-86

Logged by: F. Anderson

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
111.05	115.78	ARG	G	2% py						
			- bedding 45° → C.A.							
			- laminated & v. thinly bedded black graphitic ARG							
			& dk grey v.f. grained sst.							
			- py present in matrix as disseminated grains							
			& blebs to 7mm.							
			- bedding steepens to C.A (~70°) down hole.							
115.78	116.05	FT	SST*							
			- grey clay gouge							
116.05	122	SST	70:30 ARG, 2% py							
			- interlaminated & interbedded grey siltstone with w-spy							
			mud layers and silty laminated black argillite shale							
			- rare hairline white veinlets, shallow to C.A.							
			- py present as disseminated grains & blebs.							
			- becomes darker, more clay with depth							
122	124.05	ARG	S_1 C_1							
			- w-spy laminated muddy siltstone? overall black color.							
			- off white quartz-kb swelling veinlets ~~in [illegible]~~							
124.05	129.89	SST	ck							
			- occasional blocky w-spy laminations; dk grey							
			muddy beds in upper metre, stepped contacts caused							
			by fracture blebs stockwork; pervasive thin intervals							

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: 96-86

Logged by: F. Anderson. August 22 1996

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
124.05	129.89	SST	3% Py, Cl, Tr Aspy?							
			- off white to yellow, wk clay altering carbonate matrix							
			~~swelling~~ veinlets, 10° to 40° → C.A. - not							
			strong enough to call 126.2m (clast supported							
			breccia) SST from 126.5 to 129.0m,							
			- up to 3% py, f-g needles + discs within matrix.							
129.89	130.3	FT	70:30 SST : Argg							
			grey							
			intrusive clay supported, sub rounded angular black							
			argillite + grey siltstone fragments, lower contact							
			~45° → C.A.							
130.3	132.8	SST	1% Py, Cl, Sz							
			- grey, crackle fractured siltstone with hairline black							
			stockwork and am white / off white qz-cb							
			veinlets; harder matrix than previous SST.							
			- yellow tan clay altering mineral on fracture surfaces							
			- 1% f-g py associated w/ black stockwork							
			+ disseminated in matrix							
			- pastel pea green coating on some fracture surfaces.							
			~~Py: pods, replacing~~							

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: 2096-86

Arg mit 72/96

Logged by: F. Anderson

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
132.2	134.5	SST	70:30 ARG, C1, 1% py							
			interlaminated tan grey sst + dk grey/black argillite,							
			distinct bedding 70°-75° C.A., beds are 10cm to 50cm							
			thick							
			- 2% py as disseminated pods + lenses (60-80% py) in upper 15cm,							
			in contact with hard siltstone.							
			- pastel green coating seen on fracture surfaces.							
134.5	136.95	SST	80:20 ARG, S1-							
			- V. broken core, platy to angular shaly argillite +							
			blocky grey siltstone; bedding unclear with dk py laminae							
			through sst fragments.							
136.95	140.5	SST	C1, S1,							
			- grey siltstone, bedding unclear with dk offset by tan/yellow stockwork							
			- sections with black argy laminations							
			- becomes crumbly broken at 139.5; semi polished							
			surfaces along graphitic laminae, matrix supported (cb-fg)							
			brittle and clay altered matrix at 139.5m.							
			- swelling with veinlets, cause brecciation near lower contact w/							
			clay altering brittle/crumbly stockworked argillite							
			- contact ~ 85° to C.A.							

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

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Logged by: E. Addison

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
140.5	142.95	ARGG	sk	Si						
			crumbly/clay altered graphitic argillite, 10% (fs)							
			white fragments, chips represent white stockwork;							
			- very broken core 0% RQD							
			- Competent							
142.95	146.85	SSS	C1	1% fr.						
			- crackle fractured, clay altered matrix along fractures							
			causes crumbly/friable silkstone; pervasive pale							
			yellow (cb) bedline stockwork;							
			1% disseminated pyrite in matrix, pods/patches							
			of irregular shaped massive py within silkstone							
			(recessed) at 145.5m.							
			- short intervals of more competent core, still broken							
			but not clay altered.							
			- trace black stockwork within clay altered zones.							
146.75	147.65									

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

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Logged by: [illegible]

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
146.85	147.62	ARGL	lt, SZ, SK
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
147.62	151.5	SHL	[illegible], C1
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
151.5	152.04	SHG	[illegible], SZ, SK
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
152.04	152.81	AGM	[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]26

August 24 1996.

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
152.21	157.9	SHG	2% py=v. Sz - fg dissem + specks pervasive but mod stockwork white qtz + slate - often qtz vein + parallel bedding - mod oxidized fair fractures
157.9	157.4	FGM	tr py tr lm - fg brown dissem. groundmass, generally weak bleaching with fg weak fracture stockwork - white to milky qtz veins (rare to modal grain size best preserved) - mod oxidized with minor loss of original groundmass + preserved FGM texture here. - trace fg py disseminated in groundmass.
157.4	160.02	GM	Tr LM, C1 grey to grey-green groundmass, rare strong clay altered to brown; fair fracture density - pervasive white stockwork weakly developed, occasional 1-2 cm sized white qtz veinlets. - upper 1/2 m trending to more groundmass with 30 cm of clay altered GM.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LP 96-86

Property: Pipestone

Logged by: F. Archangel

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
160.72	164.02	AGM	Fine grained, TR-LM
			- buff to light grey altered groundmass with 15% grey quartz eyes (1-2 mm)
			- equigranular quartz eyes and feldspar (Kfs) phenocrysts (2-3 mm) with minor biotite content
			- mafics rarely appear, with are replaced by Py.
164.02	165.15	GM	TR Py, Sil, Sl
			- greenish grey to buff groundmass, increased relics to 5% porphyritic texture to about; decreased clay alteration
			- zone of [illegible] to light [illegible] of quartz veins
			- stacked [illegible] zone of AGM-GM relics to about AGM
165.15	166.21	AGM	TR Py
			- transitional towards the dominant ~~light~~ groundmass; buff, pale brown, relict porphyritic texture is from a ~~buff~~ light brown grey AGM-GM with ~10% relics
			- trace fine grained Py pockets
166.21	166.71	CPC	C1
			- polygonal conglomerate with clasts of AGM, GM, Py felsic, clasts cemented with fine sand & pebbles
			- trace of chloritized fractures

LOKI GOLD CORPORATION

LITHOLOGY LOG

August 21 1996 HOLE-ID: 96-26

Logged by: F. Arnoldi

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
166.21	167.79	ARGG	70:30 SST, ~~70:30~~, 5% py, C1
			- fg disseminated py concentrated along beds in ARGG
			- pervasive hairline to cm swelling cb veinlets.
167.79	174.55	ARGG	2% py, C1
			- black, semi platy breaking, strongly graphitic texture
			- 5% total SST, grey, sediment beds is wispy, black laminae
			- 2% py, disseminated in matrix & thin layers
			~~selvages~~ between ARGG & SST bed contacts
			- strong white cb stockwork to 168.9m
174.55	185.64	SST	C1, 2% py, 70:30 ARGG
			- grey to dk grey, black muddy siltstone with wispy discontinuous black laminae, 2% py replacing wispy black laminae and disseminated specks in matrix
			- pervasive hairline to mm, clay altered, dk grey calcareous quartz healed crackle fracture.
			Bedding 50° C.A
			- lower three metres predominately ARGG with thin (up to 10cm) SST beds
185.64	187.36	SST	60:40 ARG, S4, 2% py,
			- V. hard SST/ARGG/SST interbedded sequence, py as above, intense black "networking" hairline fractures in SST.
			- V. hard matrix
			- lower contact 78° T.C.A cuts bedding.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-20.

August 24 1996

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
187.36	189.25	SST	Cl, 1% Tr py
			- same unit as 185.64, not silicified.
189.26	198.92	ARGG	7% py, Cl, Ser
			- pervasive cb + minor qz stockwork as shated veinlets (some vugs) and hairline networking; angular py blebs within ARG matrix, isolated; strongest in upper 3m; patchy elsewhere
			- partially healed fractures by dk (lead) grey clay + py blebs. grey clay is decomposed pyrite/sulfide?
			- start getting increase to rounded 5mm blebs and wavy thin (2-3mm) beds; also replacing truncated white veinlets? <60°-70° r.a.
			~~- 3cm qz + cb vein bxd ~60°-70°, replacing siltstone~~
			~~- dark brown-blue argillite angular fragments~~
			- soft argillite a la planar breaking - indurated shale?
198.92	200.73	ARGG	bx, sk, Ser Tr-1% py
			- silicified graphitic shale argillite brecciated by qz+cb replaced by qz veinlets + hairline stockwork (disrupts veinlets)
			- py disseminated + fracture + matrix.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-26

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Logged by: F. [illegible]

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
200.93	203.48	ARGA	C1, S2, 2-3% Py sk
			[illegible] con [illegible] across [illegible]
			[illegible]
			[illegible] sardon [illegible]
			[illegible] 97 veined
			[illegible] at 206.6? and 203.? [illegible]
			[illegible] of pyrite disseminated [illegible]
			[illegible] small [illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible] parallel bedding
			↑ 20?.?? to 209m.
			[illegible] disseminated [illegible]
			END OF HOLE

JC August 24/96

Entered into DD96x3

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

Logged by F. ANDERSEN / B. Bark.

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
0	2.7	0	[redacted]	1	0	/	/	/	C_1	/
2.7	4.7	1.18	0.11	1	0				C_1	
4.7	6.7	1.65	0.12	1	0				C_1	
6.7	8.7	0.67	0.16	1	0				C_1	
8.7	10.7	1.20	0.0	1	0				C_1	
10.7	12.7	1.42	0.48	1	0				C_1	
12.7	14.7	1.64	0.15	1	0				C_1	
14.7	16.7	1.9	0.57	1	0				C_1	
16.7	18.6	1.46	0.50	1	0				C_1	
18.6	20.6	1.4	0.26	2	0				/	S_3
20.6	22.6	1.05	0.31	Tr	Tr	P_3			/	S_1
22.6	24.6	1.05	0.10	Tr	Tr	P_3	/		/	S_1
24.6	26.6	1.70	0.22	1	Tr	P_3	Tr		C_1	S_1
26.6	28.6	1.72	0.41	1	Tr	P_3	Tr		C_1	S_1
28.6	29.6	1.03	0.29	1	Tr	P_3	Tr		C_1	S_1
29.6	31.3	1.51	0.61	1	Tr	P_3	Tr		C_1	S_1
31.3	33.3	1.73	1.20	1	2	P_1	/		C_2	S_1
33.3	35.3	1.84	0.64	1	2	P_1			C_2	S_1
35.3	37.3	1.76	1.17	1	2	P_1			C_2	S_1
37.3	38.1	0.76	0.76	1	2	P_1			C_2	S_1
38.1	40.1	1.78	0.36	Tr	0	/			C_1	/
40.1	42.1	1.25	0.38	Tr	0	/			C_1	/
42.1	43.5	1.19	0.29	Tr	0	/			C_1	/
43.5	45.5	1.43	1.04	1	2	P_0			C_2	S_1
45.5	47.6	1.98	1.67	1	2	P_0			C_2	S_1
47.6	49.6	1.56	0.64	1	0	/	T	—	[redacted]	/

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96 86

Logged by B. Bark

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Vapy (%)	Sb (%)	$CaCO_3$	Silica Influx
49.6	50.6	1.25	0.8	Tr	Tr	P_1	/	/	C_1	/
50.6	52.1	0.34	0	Tr	Tr	P_1			C_1	
52.1	54.1	1.62	0.48	Tr	Tr	P_1			C_1	
54.1	56.1	1.86	1.26	Tr	Tr	P_1			C_1	
56.1	57.1	0.9	0.57	Tr	Tr	P_1			C_1	
57.1	59.1	1.42	0.91	Tr	Tr	P_0			C_2	
59.1	61.1	1.92	1.04	Tr	Tr	P_0			C_2	
61.1	62.8	1.79	1.02	Tr	0	/			C_1	
62.8	63.7	0.99	0.64	Tr	0				C_1	/
63.7	66.7	1.83	1.63	Tr	0				C_1	S_1
66.7	67.9	1.66	1.36	Tr	0				C_1	S_1
67.9	69.9	2.39?	1.97	Tr	0				C_1	S_1
69.9	70.5	0.56	0.31	1	0				C_1	S_1
70.5	71.8	1.09	0.25	1	0				C_1	S_1
71.8	73.8	1.69	0.8	Tr	0	/			C_1	/
73.8	75.8	1.56	1.05	Tr	Tr	P_0			C_1	/
75.8	77.8	1.79	1.50	Tr	Tr	P_0			C_1	S_2
77.8	79	1.13	0.87	Tr	Tr	P_0			C_1	S_2
79.0	80.0	1.00	0.38	Tr	Tr	P_0			C_1	S_2
80.0	81.3	1.28	0.64	/	3	P_0			/	S_2
81.3	82.4	1.02	0.54		3	P_0			/	S_2
82.4	84.4	1.71	0.53		3	P_0				S_1
84.4	85.4	0.97	0		3	P_0				S_1
85.4	86.5	1.07	0.65		3	P_0				S_1
86.5	87.5	0.93	0.38		3	P_0				S_1
87.5	89.5	1.50	0.26	/	3	P_0	/	/	/	S_1

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

Logged by B. Beck

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
89.5	91.5	1.96	0.64	/	3	Po	/	/	/	S1
91.5	93.5	1.97	0		3	Po				S1
93.5	95.4	1.78	0.42		3	Po				S1
95.4	97.4	1.89	0.26		3	Po				S1
97.4	98.6	1.04	0.11		3	Po			/	S1
98.6	100	1.44	0.48		Tr	Po			Cr	S1
100	100.8	0.64	0.34		0	/			/	/
100.8	102.8	2.0	1.14		0				C1	S1
102.8	104.9	1.8	0.66		0				C1	S1
104.9	106	1.06	0.20		0				C1	S1
106	107	0.9	0.17		0				C1	S1
107	108.5	1.05	0.19		0				C1	S1
108.5	110.4	1.2	0.32		0	/			/	S2
110.4	111.1	0.7	0.13		0	/			/	S2
111.1	113.1	2.00	1.04		2	Po			/	/
113.1	114.6	1.29	0.22		2	Po			/	/
114.6	115.8	0.91	0		2	Po			/	/
115.8	116.1	0.3	0.2		/	/			/	/
116.1	118.1	2.1	0.98		2	Po			/	/
118.1	120.1	2.0	0.92		2	Po			/	/
120.1	122.1	2.0	1.44		2	Po			/	/
122.1	124.1	2.09	0.48		0	/			C1	S1
124.1	125.3	1.47	0.21		3	Po	Tr*		C1	/
125.3	127.3	2.17	0.56		3	Po	Tr*		C1	/
127.3	129.3	1.77	0.67		3	Po	Tr*		C1	/
129.3	131.3	1.74	0.38	/	1	Po	/		C1	S2

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

Logged by: B. Vaillancourt

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
131.3	132.6	1.77	0.33	/	1	P_0			C_1	S_2
132.6	133.8	1.11	0.19		1	P_0			C_1	/
133.8	135.8	2.18	0		Tr	P_0			/	S_1
135.8	137	1.16	0		0	/			/	S_1
137	139	1.47	0.10		0				C_1	S_1
139	140.5	1.34	0.23		0				C_1	S_1
140.5	141.5	0.63	0		0				/	S_1
141.5	143	1.53	0		0				/	S_1
143	145	1.90	0.11		1	P_0			C_1	/
145	146.9	2.08	0.11		1	P_0			C_1	/
146.9	147.7	0.74	0		0	/			/	S_2
147.7	149.7	2.01	1.01		0	/			C_1	/
149.7	150.7	0.98	0.63		0	/			C_1	/
150.7	152	1.36	0.31		1	P_0	/		/	S_2
152.	153.8	1.63	0.21		1	P_0	Tr*		/	/
153.8	154.2	0.54	0	/	2	P_0	/		/	S_2
154.2	155.2	0.97	0.13	Tr	Tr	P_1			/	/
155.2	157.4	1.90	0.98	Tr	Tr	P_1			/	/
157.4	159	1.8	1.44	Tr	0	/			C_1	/
159	160	1.03	0.93	Tr	0	/			C_1	/
160	162	2.13	1.40	Tr	2	P_2			/	/
162	164	2.0	1.48	Tr	2	P_2			/	/
164	165	1.06	0.86	0	Tr	P_1			/	S_1
165	166.2	1.19	1.03	/	Tr	P_1			/	/
166.2	166.8	0.55	0.27	/	0				C_1	/
166.8	167.8	0.84	0.41	/	5	P_0	/	/	C_1	/

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-86

Logged by D. VALLIANCOURT

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
167.8	168.9	1.10	0.13	/	2	Po	/	/	C1	/
168.9	170.2	1.33	0.28		2	Po			C1	
170.2	172.2	1.93	1.12		2	Po			C1	
172.2	174.2	2.03	0.57		2	Po			C1	
174.2	174.6	0.32	0.13		2	Po			C1	
174.6	176.6	2.0	0.71		3	Po			C1	
176.6	178.6	2.06	0.68		3	Po			C1	
178.6	180.6	2.03	0.9		3	Po			C1	
180.6	182.6	1.85	1.06		3	Po			C1	
182.6	184.6	1.97	0.86		3	Po			C1	
184.6	185.6	1.05	0.47		3	Po			C1	/
185.6	187.6	2.00	1.47		2	Po			/	S4
187.6	189.6	2.17	1.28		1	Po			C1	/
189.6	191.6	1.97	0		7	Po			C1	S1
191.6	192.2	0.74	0.41		7	Po			C1	S1
192.2	194.2	1.95	0.28		7	Po			C1	S1
194.2	195.2	1.01	0.11		7	Po			C1	S1
195.2	196.9	1.57	0.20		7	Po			C1	S1
196.9	198.9	2.08	0.11		7	Po			C1	S1
198.9	200.7	1.72	0.24		1	Po			/	S4
200.7	202.7	2.0	0.33		2	Po			C1	S2
202.7	204.7	1.90	0.28		2	Po			C1	S2
204.7	206.7	2.16	1.54		2	Po			C1	S2
206.7	208.7	1.98	1.83		2	Po			C1	S2
208.7	210.7	1.98	1.61		2	Po			C1	S2
210.7	212.7	1.86	1.65	/	2	Po	/	/	C1	S2

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DDH6-86

Logged by T. Tribe

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
212.7	214.7	1.91	1.73	/	2	Po	/	/	C_1	S_2
214.7	216.7	2.01	1.82		2	Po			C_1	S_2
216.7	218.7	2.02	1.68		2	Po			C_1	S_2
218.7	220.7	2.02	1.25		2	Po			C_1	S_2
220.7	222.7	1.97	1.84		2	Po			C_1	S_2
222.7	224.7	1.98	1.05		2	Po			C_1	S_2
224.7	226.7	1.84	1.44		2	Po			C_1	S_2
226.7	228.7	1.90	0.93		2	Po			C_1	S_2
228.7	230.7	1.88	1.19		2	Po			C_1	S_2
230.7	232.7	1.97	1.62		2	Po			C_1	S_2
232.7	233.5	0.8	0.26	/	2	Po	/	/	C_1	S_2
E.O.H										

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD 96-87

SUMMARY LOG

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.4	CASING	
3.4	6.1	SHG	Tr LM
6.1	10.8	LAGM	7% LM 2% Py
10.8	13.0	SH	2% LM, Bx
13	23.5	BM	1% LM, Tr Py
23.5	31.6	ARG	Tr LM, 1% Py
31.6	43.4	QM	
43.4	45.8	SHG	
45.8	47.2	SH	sk, S4
47.2	51.2	SHG	Tr LM, sk, S2
51.2	60.7	ARG	Gr, sk, S2, Tr Py
60.7	62.1	AQM	2% Py
62.1	64.6	ARGG	sk, S2, Bx
64.6	65	AQM	Tr py
65	65.6	ARG	sk, S2, Bx
65.6	71.7	ARGG	sk, S2
71.7	78.8	CPC	2% Py
78.8	83.8	ARGG	5% Py, 1% As
83.8	88.5	ARGG	3% Py, C
88.5	105.3	ARG	2% Py, sk, S1
105.3	108	ARG	6% Py, C
108	111.5	ARGG	3% Py, C
111.5	129.7	ARG	5% Py, C,
129.7	137.4	ARGG	3% Py
137.4	141.8	ARG	5% Py, C
141.8	145.8	ARGG	Tr Py, Gr
145.8	149.5	AQM	2% Py,

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

SUMMARY LOG

Logged by: F ANDERSEN → November 1 1996

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
149.5	156.7	ARGG	* Crumbled, broken core, ½ sampled
156.7	164.6	ARG	
164.6	168.3	ARG	3% Py, S1
168.3	171.6	ARGG	2% Py
171.6	172.7	ARGG	
172.7	172.9	FT	→ Powdery clay
172.9	173.2	SHG	7% Py, S4 sk
173.2	174.2	AQM	5% Py, 2% Sb, S2
174.2	180.2	AQM	3% Py, 0% Sb, S1
180.2	180.8	AQM	5% Py, 2% Sb, S3
180.8	184.8	QM	2% Py
184.8	185.9	AQM	4% Py, 1% Sb, S2
185.9	189.5	AQM	2% Py, tr Sb, * same as 294.5M
189.5	193.9	QM	1% Py
193.9	197.1	BM	3% Py, tr As
197.1	207.1	AQM	7% Py, S1
207.1	213.9	ARGG	C
213.9	233.5	ARG	CC, S1
233.5	247	ARGG	C, Gr
247	249	AQM	2% Py, Qe
249	263.9	AQM	Tr Py (Tr Fe+Cox) ← Ignore; +/- Sh @ 262.5M Ph
263.9	266.8	ARGG	
266.8	270.7	AQM	1% Py, Qe
270.7	282.9	ARG	CC
282.9	293.5	AQM	
293.5	294.5	ARG	Sk, S1, Bx
294.5	295.5	AQM	Tr Py

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96 87

Logged by: F. ANDERSEN Nov-1 1996

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
295.5	297.2	FT	AGM, Tr HM, Tr Fe-CO$_x$
297.2	309.9	AGM	Tr PY
309.9	315.8	ARGG	Sk, Si, C
315.8	318.7	ARG	CC
318.7	319.4	ARGG	CC
			End of Hole

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD86-87

Logged by: E. BARKASEN

August 27/86 5:00pm

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.35	—	No core recovery
3.35	6.10	SHG	Gouge [illegible]
			[illegible]
			[illegible]
6.10	10.8	LAM	P_2 [illegible], 5% LM, 2% P_1, P_2
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
10.8	13.0	SH	Bx, [illegible] 20% LM [illegible]
			- subangular to sub rd. [illegible] clasts supported
			brecciated [illegible] Fe clay alteration [illegible]
			[illegible]
13.0	16.02	BM	[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

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Logged by: [illegible]

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
[illegible]	23.47	BM	TR LM
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
23.[illegible]	31.64	ARG	TR LM, 1% PY
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
31.[illegible]	43.4	BM	[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

Logged by: F. Anderson Aug. 27 Dump outdoor Logging

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]
			[illegible]
45.8	111.20'	SH	SH, ck
			[illegible] qz [illegible] [illegible]
			[illegible] fractures [illegible]. V. hard [illegible]
			[illegible] qz [illegible]
			[illegible] filled [illegible]
111.20'	[illegible]	SHC	ck, SZ
			[illegible]
			[illegible]
			[illegible] qz [illegible]
			[illegible]
			[illegible]
SZ	[illegible]	[illegible]	ck, SZ
			[illegible]
			[illegible]
			[illegible]
			[illegible]
			[illegible]

DOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: 96-87

August 27 1996

Logged by: F. Anderson. RAIN

Page 24 of 28

60.1-60.66 ARGG - cm py bds/lenses

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
60.66	62.1	ABM	2% py, Po							
			- pale pink/tan bleached with ~~strong~~ clay altered groundmass; perphyritic texture indistinct							
			- 2% py as grains replacing matrix							
			- zones of complete clay alteration associated with cm to cm graphitic sediment beds.							
62.1	64.57	ARGG	Gr, Sz							
			- upper contact 60° to c.a							
			- tan/pink clay altering gash fillings							
			- occasional white qz veinlets + gash filling							
			- last 60 cm is a ARGG matrix supported white quartz clast breccia.							
64.57	65	ABM	Tr py							
			- clay altering groundmass, rare porphyritic sill							
			- upper + lower contact 60°-70° A							
65	65.58	ARG	Sz							
			- continuation of breccia zone seen from 64-64.57 m;							
			- thin sills? of dioritic material. ~40°-20° A, 65.28-65.58 m							
65.58	71.7	ARGG	Sk, Sz							
			- interlaminated ARG/Sh and blocky silty ~~dioritic~~? unit							
			- wavy bedding 40°-20° A							
			- pervasive white, swollen + swirled qz veins with tan/yellow clay selvages; stockwork is qz + white muscovite stronger in silty units							

End logging for day.

LOKI GOLD CORPORATION

LITHOLOGY LOG

October 9 1996 HOLE-ID: DD96-87

Note: Core has been sampled - depths are best approximation

Logged by: F. Arsenault

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
71.7	78.8	CPC	2% py, Po
			- matrix supported, subangular to sub rounded white/grey granule to pebble sized clasts; poorly sorted
			- dk grey to black silty matrix, non graded
			- <1% massive pyrite pebbles, ~2% fine grained py in matrix;
			- minor sections of clast supported CPC
			- uneven breaking, hackly surfaces where core split;
			- open space textures at 74.8m, dusty gz + py lobes to 3mm
			- At 76.55m have "Cave" block - rock is broken, blocky fine grained sandy matrix, no clasts limonite (yellow) clay saturation of fg groundmass
			- 77.8 - 78.3m have graphitic platy shaley argillite w/ abundant polished surfaces - minor slip surface - w/ bedding ~90° → C.A
78.8	83.8	ARGG	5% py, 1% as, Po
			- graphitic thinly bedded shaley argillite; breaks along polished graphitic laminae + across fine silty beds; bedding 75° → C.A
			- 5% (or more) v.f.g py in matrix, ~2% silvery needles + microscopic grains → arsenopyrite;
			- rare discontinuous yellow-pastic laminae weakly calcareous where laminae occur;
			- v. little qz (white) veinlets, amount increasing with depth, <1%, coarser pyrite grains around qz veinlets
	step-overs in dk yellow clay between brecciated graphitic layers → movement along		- v. broken, crumbled interval 80.1 to 80.4m, strongly graphitic

* Arrow indicates direction of movement between core that has been split

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

October 9/96

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
83.8	88.5	ARGG	3% Py, Po, Cl
			- strongly graphitic platy argillite, deformed bedding
	graphite content ↓ w/depth	→	in upper meter, thinly bedded down hole, 70°→C.A.
			- 1 to 3cm dk greyish black fine silty beds with 1cm black clay beds; beds offset by hairline anastomosing to planar weakly calcareous clay filled fractures at shallow angles → C.A.
			- pyrite content rises to ~3%, no arsenopyrite needles seen; rare py rich dk grey fine silty beds
88.5	101.5	ARG	- 1% py, Po
			- open folded thinly bedded argillite; axial trace ~25°→C.A.; few sulfides seen; non graphitic
			bedding varies from 60° to 70°→C.A.
			- short (30-40cm) platy broken graphitic intervals with up to 7% pyrite in matrix
			- axial trace 75°→C.A. at 96.4m, bedding 85°→C.A.
			- graphitic polished surfaces throughout interval
			- white opaque quartz veinlets, deformed through folding broken into lens, a late episode infilling fractures.
101.5	105.3	ARG	2% Py, Po sk, Sl
			- dk greyish black v. fine silty to clay matrix
			- graphitic polished laminae;
			- thinly bedded core breaks along + across beds as well as along graphitic laminae.
			- bright white ribboned, contorted qz veinlets.
			- pyrite within matrix + as thin wispy laminae ~

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

October 9/96

Logged by: F. Archibald

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
105.3	108	ARG	C2 6% py Po
			dk grey/black and black v fine silty to clay matrix; thin bedded mm to 2cm size; 50°→C.A
			- 5% - 7% pyrite as blebs, py rich beds 1-3mm in size and as nodules to 2cm size;
			- greyer beds are moderately reactive to HCL;
			- mm sized white lensy veinlets following bedding;
			- later stage white qz veinlets mm sized deformed by slip along bedding; very few;
108	111.5	ARGG	3% Py, Po, C2
			- v. broken platy graphitic argillite, thinly bedded laminated 55°→C.A;
			- pyrite as v. thin laminae ribboned;
			- 5cm sections of clayey graphite rich argillite, very calcareous; more competent core non-reactive to HCL;
			<2% pale yellow to white wispy mm laminae - dolomitic mineral?
111.5	123.8	ARG	5% Py, C2, Po
			- identical unit to 105.3 - 108 m argillite
			- no blebby pyrite in this interval no nodules
			- bedding 70°→C.A @ 116.8m
			- occasional mm open fractures // C.A, cause core to split

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

October 21/96

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Hole already split & sampled;
123.8	179.7	ARG	5% Py, Po, Sl
			same unit; py massive beds to 1mm thick
			- bands to 1mm qtz+cb (white) + py ash fillings
			& stockwork, disrupt bedding
			- very minor graphitic laminae concentrated
			through 5 cm intervals
179.7	137.4	ARGG	3% Py, Po,
			- very black bedding, 60° to C.A defined by graphitic
			rich laminae;
			- soft graphitic argillite with zones of
			v. broken graphite dominant chips (rags) to 60cm length.
			- unit breaks more planar, fewer circular discs
			- splay breaking 131.1 to 132.8 m
			- smooth, polished surfaces of discs indicate
			slip along bedding.
137.4	148.8	ARG	5% Py, Po, Sl
			same unit, same description as 123.8 - 179.7 m;
			- qz-cb veinlets parallel & swell around bedding, plus
			hairline stockworking & sheeted veinlets
			- py content ↑ downhole, over 1cm graphitic
			zone; 8mm massive bed at 144.7m; also get
			py blebs
			- core splay breaking across inferred bedding.
			- v. broken zones associated with ↑ graphite
			laminae.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

Oct. 21/96

Logged by: F. Anstead

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
144.8	145.8	ARGM	Tr py, Po
			- black, broken moderately to strongly graphitic,
			- graphite ↑ dark/sic
			- semi polished chip surfaces from 144m onwards;
			- highly crumbled/crushed shear zone ~144.6-145.1m-
			- lower contact is AGM broken appears intrusive
			at shallow ∠ to C.A.
145.8	149.5	AGM	2% Py, Po, Sl
			pale brownish green fine grained aggregates; non-
			porphyritic; relict ~ brown clays as replaced by
			Py;
			- downhole get bleaching, cubic py ~ 1% - not
			replacement of matrix;
			- minor ~~stringers~~ veinlets of pale minerals, chlorite +qz
149.5	156.7	ARGG	
	149.3	152.85	Box 38 composed of broken graphitic
			argillite; larger chips show polished surfaces
	152.85	156.7	Box 39 open folded graphitic argillite, polished
			surfaces along beds; one limb ~20°->C.A other
			limb 10° ->C.A, opposing dips; most of box v.
			platy broken, shows evidence of strong brittle
			ductile deformation

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

October 21/96

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
166.7	164.6	ARG	
			greyish black thinly planar laminated argillite;
			- platy breaking, large lengths of broken core;
			- occasional 5 cm lengths of rubbly, graphitic core;
			- no visible sulfides.
			- white powdery lenses common, not pervasive,
			- bedding ~ 40° → C.A; core has broken planar at 30° → C.A across bedding;
164.6	168.25	ARG	3% Py, Po, Sl
			broken, weakly graphitic argillite pervasive hairline lensy white stockwork (cb+ clay + qz)
			- noticeable difference is introduction of pyrite;
			- f.g. disseminated py in matrix plus fracture fillings / veinlets and as massive 3cm bed cut by 20% qz-cb stockwork at 167.1m
			- py bed indicates broad folding with shallow limb angles → C.A

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

-Jump into SH/ARGG to Sb Interval for Assays

Logged by: Farrell Anderson August 28 1996. 6:00 pm

F.J.A.

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Note: Other than DD Holes 85+88, sample intervals were broken at by techins with geologic contacts + zones of interest marked by geo; Hole 86 sample intervals broken out by R. Dment.
~~168.25~~	~~170.2~~	~~ARGG~~ SHG	10% py
168.25	170.2	ARGG	- graphitic clay + pebble sized arg fragments enclosing 3 to 12cm competent ARGG clasts - fairly regular pattern, ~ 30°→C.A suggests graphitic shear at shallow angles to C.A.
			- py disseminated thin beds + as laminae.
			- polished surfaces 30°→C.A seen clay-arg shears.
170.22	171.6	SHG	2-3% py
			- platy graphitic shale, not fissile. mm sized white→yellowish clay veinlets, various angles, associated with fractures.
			- py disseminated thin beds and as mm sized laminae;
171.6	172.7	SHG	
			- graphitic clay laminae rich, platy shale with fracturing + silic pervaded argillite + pervasive stockwork of argillite fragments
~~172.7~~ ~~172.9~~	172.9	FT	- Massive, ~~dark~~ clay, breaks into powder 172.7-172.9
172.9	173.14	SHG	7% py Sy
			- silicified pyrite forms disconnected network through matrix.
			- upper contact graphitic, 60°→C.A
			- lower contact planar, 70°→C.A

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

Logged by: E. Bridgeport

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
173.14	174.2	AGM	5% py, 2% Sb, S_2
			porphyritic, pale grey ~~and greenish tan~~ weak clay
			altering matrix
			- stibnite present as patchy veinlets, hairline to 1.5cm
			brecciating AGM thicks; 5% py as disseminated grs
			- abss & specks at 173.68 m.
			- groundmass turns greenish tan, clay alteration of
			fs stronger, porphyritic texture distinct; yellow clay
			alteration of mafics, py replacement of bi.
174.2	180.2	AGM	3% → 2% py, S_1
			porphyritic greenish tan hued AGM
			- 6cm vuggy qz veinlet 30°-TC-A at 175.18 m.
			- py fine grained & disseminated thru groundmass, &
			replacing biotite.
180.2	180.8	AGM	5% py, 2% Sb, S_3
			- vuggy quartz veined with pale brown clay selvages,
			stibnite present as interconnected grains in one veinlet
			massively replacing arsenopyrite;
			- grey groundmass as 173.14-174.2 & pyrite occurrence
			- upper contact 2mm clay filled fracture/veinlet
			35°-TC-A; lower contact same, 45°-TC-A.

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DDH-87

Logged by: F. ANDERSON

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
180.8	183.3	~~GM~~ AGM	3% py, Pq							
			-greyish green groundmass, pink and green alteration of phenocrysts;							
			-minor qz veinlets with clay rims; one vein at base having stibnite							
			-biotite shredded looking, pale brown.							
			-3% of biotite in AGM (tan) groundmass, chilled margin 45°-TC-A.							
			-pyrite replacing biotite in groundmass.							
183.3	184.75	~~GM~~ AGM	2% py, Pq							
			-pale brownish tan groundmass, biotite gone to pale brown clay; Bleached GM.							
			-core continues to break along hairline fractures, 45°-TC-A							
			-<1% remnant biotite							
			- 2% at most, py replacement of biotite.							
184.75	185.87	AGM	40% py, ~~Sp~~ Sz, <1% Sb.							
			green, quartz veined + stibnite veined AGM, 3-5% py disseminated in groundmass;							
			-Quartz veins up to 2cm, oriented ~40°-TC-A, parallel & unevenly spaced.							
185.87	187.5	AGM	1-2% py, trace sx (Sb)							
			-pinkish tan groundmass, bi → brown clay & replaced by pyrite; trace interstitial f.g. py; silvery, blebby sulfide looks bladed (Sb)							
			- ½ core patchy, pale green clay altered groundmass 187.3-187.76m.							

-10cm AGM lens, planar contacts 50°→ C.A at 189.25

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-87

Logged by: F. ANDERSEN August 28/96.

From (m)	To (m)	Rec. (m)	Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
185	193.85	~~AOM~~ BM	~~1%~~ 1% py							
			- increased clay alteration of groundmass due to increased fracturing, forms clay filled stockwork in places -							
			- porphyritic; <10% relict biotite, which is being replaced by ~~biotite~~ pyrite							
193.85	197.1	BM	3% py, tr aspy							
			non porphyritic, fine grained; yellow-tan groundmass.							
			- ~~biotite~~ hb → pale brown clays, biotite being replaced by pyrite; possibly aspy replacing biotite?							
			- bleached/altered so very little remnant biotite							
			- occasional grey qz + minor clay healed fractures							
			- black stained, semi polished surface at lower contact 40° → C.A.; 2cm clay white clay band at lower contact, crackle fracturing of core -							
197.1	207.1	AOM	7% py, Sl							
			porphyritic, weak phyllic altered (tan brown clay altered groundmass) AOM, white clay veining phenos, crackle fractured core, healed by qz + sulfide							
			- occasional white qz ~~filled~~ veinlets with clay selvages							
			- 5% py disseminated in groundmass as cubes							
			- 20% py total from sulfide veinlets							
			- closer spaced fractures, wider, healed by clay further down hole							

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD 96-87

November 1 1996

Logged by: F. Andersen

Hole already cut + 1/2 sampled.

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Continuation of log from 207.1m last logged August 28/96 by FA; 168.2-207.1m logged out of sequence to obtain assay data.
207.1	213.9	ARGX	C_1
			- black very broken, strongly graphitic chips, angular chips to rounded edges.
			- trace powdery clay, weakly calcareous as hairline fracture fillings - fractures across bedding.
			- powdery chips from 208.3 to 211m.
			- matrix lighter shade, less graphitic, more competent pieces, thicker clay + qz + minor ab. fracture fillings
213.9	233.5	ARG	C_2, S_1
			- ~~more~~ solid core to through-going fractures revealed by qz + white mineral forms stockwork in places; calcareous matrix
			- weakly to non graphitic mainly with short intervals of graphite rich / clay altering argillic lenses;
			- soft sediment deformation and sandy inclusions as trough fillings; calcareous lenses of silt.
			- At 223m starts to become more graphitic, core bits are smaller, broken sometimes reduced to rubble.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

November 1/96

Logged by: F. Andersen

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
233.5	247	ARGG	C_1
			· 40cm interval of benign broken graphitic argillite pieces showing polished surfaces along graphite laminae; core becomes graphitic rubble with 1% white powdery clay coating fr pale grey hue to core on fracture surfaces
247	249	AGM	P_{θ} 2% P_y, Qe
			· tan/greenish brown to grey groundmass;
			- porphyritic, phenos altered to white clay & irregular xtal boundaries
			- ~1% sub rounded quartz eyes. irregular shape- replacement texture.
			· 2% py present as aggregate blebs (<1%- replacement of mafics), and as discrete cubes disseminated thru core; content ↓ downhole - $P_{\theta} \rightarrow P_2$ (not limonite but biotite- B_2 of old)
			- sericite micro coating along fracture surfaces partially revealed.
249	263.9	AGM	P_y (biotite remnant), tr py ·
			· as above, no quartz eyes after 249m, very little to no pyrite, trace biotite? specks replaced by pyrite. (note specks very fine black reflective mineral - biotite? secondary - mafics destroyed).
			· fracturing increases downhole, clay alteration of groundmass ↑ · trace brown/yellow clay along fracture 60°→C.A (shear) at 262.5m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH96-87

NOV 1/96

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
263.9	266.8	ARGG	
			dark grey to black blocky sub rounded clay coated argillite pieces + clay agglomerated rubble.
			- upper + lower contacts destroyed
			* Reduced to N6 at 264.8m
266.8	270.7	AGM	1% Py, Po, Qz
			sill identical to 247-263.9, pyrite dominant in first 50cm, and up to 3% in last 30cm. Groundmass has increased sericite alteration plus random hairline grey quartz veinlets; only minor fracturing partially rehealed.
270.7	282.9	ARG	C_3
			platy dark greyish black argillite, limey - bedding 20° to 0° -> C.A; platy breaking thinly laminated, occasional graphitic laminae.
			- lower 30cm strongly graphitic rubble.
282.9	293.5	AGM	
			- white phenocrysts have very angular boundaries, possible fragmented coarse crystals.
			- thin v clay altered intervals at <45° -> C.A. complete
			- mm sized white massive veinlets/fracture fillings, some yellow coloured (Fe-dolomitic?)
			- later stage fractures (partially healed by sericite) truncate + displace veinlets.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96 87

Logged by: F. Andersen Nov. 1/96.

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
293.5	294.5	ARG	sk, S, Bx
			· brecciated stockworked argillite, matrix filled by
			weakly graphitic shale matrix.
			-upper + lower contacts destroyed.
294.5	295.5	AGM	Tr py, Po
			pinkish tan groundmass, smaller porphyritic texture
			harder groundmass occasional ~~broken~~ grey qz +
			pyrite veins
			-weak potassic alteration? ← No
295.5	297.2	FT	AGM,
			-fault zone - slickensides 30° → C.A, healed fractures
			sub parallel C.A causes broken core; groundmass
			moderate to complete clay altered; Itmatite
			brown staining / streaking along fracture
			sub parallel C.A - causes overlying units pink
			tinge?
297.2	309.9	AGM	tr py, Po
			greenish / tan - pink hued patchy groundmass, phenos
			being replaced by pale green sericite with
			pale off white rims; pink hue ends at 302m
			- 302 corresponds to increased fracturing, ↑ clay
			alteration, polished surfaces shallow → C.A & 30°
			→ C.A; also more green groundmass;
			-pink hued patches return at 307m;
			-py blebs + 2% disseminated fine grains in
			last 30cm before lower contact; also get
			black shiny specks being replaced by pyrite.

possibly weird alteration of pyrite?

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-87

Logged by: F. ANDERSEN Nov. 1/96

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
309.9	315.8	ARGG	sk, S1, C2
			pervasive hairline fracture filling, mm to cm white veinlets as disrupted stockwork; platy, graphitic, many polished graphitic surfaces on chips;
			-note white veinlets highly reactive to HCL + composed of qz + cb
			-graphitic rubble from 314.3 to 315.5 m.
315.8	318.7	ARG	C3
			-weakly calcareous silty matrix, pervasive deformed & convoluted hairline wispy stockwork & fracture filling; wavy (sub parallel bedding) to truncated & displaced (shallow angle -> C.A. cutting bedding) mm to cm sized very calcareous composed of carbonate minerals;
			-displacement caused by bedding slip. fracture fillings are related to slip along beds (extension/ fracture cleavage).
318.7	319.4	ARGG	C3
			- black blocky/platy breaking calcareous argill. to
		EOH	-polished surfaces marked by graphite laminae
			-bedding 60-70° -> C.A. [illegible]
			End of hole.

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 87 HOLE-ID: DD96-87

Logged by: LIZZY & JOY

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
0	3.05	NO CORE	-							
3.05	4.88	.92	-	1	0	/				
4.88	6.1	.5	-	1	0	/				
6.1	8.1	1.5	-	5	2	P_2				
8.1	10.1	1.8	-	5	2	P_2				
10.1	10.8	.62	-		2	P_3				
10.8	13	1.02	-		2	P_3				
13	15.02	1.9	-	1	Tr	P_o				
15.02	16.02	.74	0.11	1	Tr	P_o				
16.02	18.02	1.37	-	Tr	0	/				
18.02	21.02	1.75	0.22	Tr	0	/				
21.02	21.41	1.38	-	Tr	0	/				
21.41	23.47	1.83	-	Tr	0	/				
23.47	25	1.01	-	Tr	1	P_o				
25	26.8	1.24	-	Tr	1	P_o				
26.8	28.3	1.44	-	Tr	1	P_o				
28.3	29.8	1.45	-	Tr	1	P_o				
29.8	31.64	1.46	0.58	Tr	1	P_o				
31.64	33.3	1.3	1.18	/	0	/				
33.3	35.3	2.1	-		0					
35.3	37.3	1.98	1.37		0					
37.3	39.3	1.78	1.11		0					
39.3	41.3	1.87	0.40		0					
41.3	43.4	2.1	1.38		0					
43.4	45.3	1.46	0.49		0					
45.3	47.24	1.16	0.20		0					S4

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 87 HOLE-ID: DD96 - 87

Logged by LIZZY & JOY

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
47.24	49.26	1.17	—		0	/				Sz
49.26	51.2	1.26	0.15		0					Sz
51.2	53.1	1.35	0.3		0					Sz
53.1	55.2	1.83	0.31		0					Sz
55.2	57.19	1.97	0.49		0					Sz
57.19	59.19	2.00	.62		0					Sz
59.19	60.66	1.14	-		0	/				Sz
60.66	62.7	2.12	.56		2	Po				/
62.7	64.57	1.46	.90		0	/				Sz
64.57	65.58	.98	.28		Tr	Po				/
65.58	67.6	2.01	1.30		0	/				Sz
67.6	69.6	2.09	1.18		0	/				Sz
69.6	71.7	1.93	.84		0	/				Sz
71.7	73.7	2.08	.94		2	Po				/
73.7	75.7	1.56	.66		2	Po				/
75.7	77.8	2.16	.59		2	Po	/			/
77.8	79.8	1.88	.59		3	Po	Tr			/
79.8	81.8	1.89	Q		5	Po	1			/
81.8	83.8	1.41	.11		5	Po	1		/	
83.8	85.8	1.70	.44		3	Po	0		C_1	
85.8	87.8	1.93	.61		3	Po	/		C_1	
87.8	89.8	1.81	.22		2	Po			C_1	
89.8	91.8	2.01	1.05		1	Po			/	
91.8	93.8	2.00	.19		1	Po				
93.8	95.8	1.82	0.21		1	Po				
95.8	97.8	1.96	0.51		1	Po	1			

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 81 — HOLE-ID: DD96-87

Logged by: LIZZY & JOY

From (m)	To (m)	Rec (m)	RQD [redacted]	Lin (%)	Py (%)	Py Oxidation	Vspy (%)	Sb (%)	$CaCO_3$	Silica Influx
97.8	99.8	1.67	0.4		1	Po				—
99.8	101.54	1.77	0.66		1	Po				—
101.54	103.3	1.81	0.48		2	Po				S1
103.3	105.3	1.92	.72		2	Po			—	S1
105.3	107.3	1.85	1.00		6	Po			C2	—
107.3	109.3	.96	.20		5	Po			C2	
109.3	111.3	.96	.0		3	Po			—	
111.3	113.3	2.04	.29		5	Po			C2	
113.3	115.3	2.02	.51		5	Po			C2	
115.3	117.3	.92	.80		5	↓			↓	
117.3	119.3	1.99	1.05		5					
119.3	121.3	2.02	1.13		5	↓			↓	
121.3	123.3	1.89	.24		5	Po			C2	—
123.3	125.3	1.96	.21		5	Po			—	S1
125.3	127.3	2.09	.11		5	Po				—
127.3	129.3	1.75	.0		5	Po				
129.3	131.3	2.09	.31		3	Po				
131.3	133.3	1.83	.12		3	Po				
133.3	135.3	1.80	.35		3	Po				
135.3	137.3	1.92	0		3	Po				
137.3	137.9	-			5	↓				
137.9	139.9	-			5					
139.99	141.8	1.48	.11		5	↓				
141.76	143.7	1.44	—		Tr	Po				
143.1	144.8	1.06	—		Tr	Po				
144.8	145.9	1.17	—		Tr	Po				

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 87 HOLE-ID DD96-87

Logged by LARRY GOY Page 26 of 29

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
145.87	147.8	1.75	0.66		2	Po				S_1
147.8	149.5	1.5	0.71		2	Po				S_1
149.5	151.5	1.93	-		—	—				—
151.5	153.5	1.49	—							
153.5	155.45	1.29	-							
155.45	157.28	1.63	19							
157.28	159.2	1.86								
159.2	161.2	1.9	-							
161.2	163.2	1.87	10							
163.2	164.57	1.27	-		—	—				—
164.57	166.3	1.64	-		3	Po				S_1
166.3	166.9	.6	-		3	Po				S_1
166.9	168.62	1.9	-		1	Po				//
168.62	170	1.38	-		1	Po				
170	171.6	1.88	0.65		2	Po				
171.6	172.9	1.19			0	—				—
172.9	173.14	0.21	0.15		7	Po				S_4
173.14	174.21	1.08	0.67		5	Po		2		S_2
174.21	176.21	.99	1.85		3	Po		0		S_1
176.21	178.6	2.35	1.45		3	Poo		0		S_1
178.6	180.2	1.63	0.89		3	Po		0		S_1
180.2	180.8	0.44	0.36		5	Po		2		S_3
180.8	182.6	1.83	-		3	Py		—		—
182.6	184.6	1.94	-		2	Py		—		
184.6	185.86	0.98	-		4	Po		1		S_2
185.86	187.86	2	1.18		2	Po		Tr		S_2

[redacted]

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 87 HOLE-ID: DDH-87

Logged by: LIZZY E. JOY

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
187.86	189.83	1.9	-		2	Po		Tr		
189.83	191.8	1.94	-		1	Po		/		
191.8	193.85	1.72	.85		1	Po	/			
193.85	195.5	1.87	.21		3	Po	Tr			
195.5	197.1	1.88	.		3	Po	Tr			/
197.1	199.1	1.99	.21		7	↓	/			S_1
199.1	201	2.1	.50		7	↓	↓	↓	↓	↓
201	203	2	.3		7	↓	↓	↓	↓	↓
203	205.05	2	.6		7	↓	↓	↓	↓	↓
205.05	206.64	1.01	-		7	↓	↓	↓	↓	↓
206.64	207.1	.97	-		7	Po	↓	↓	↓	↓
207.1	208.3	1.26	-		/	/	↓	↓	/	S_1
208.3	209.9	1.42	-		↓	↓	↓	↓	C_1	/
209.9	211	1.32	-		↓	↓	↓	↓	↓	↓
211	212.95	1.95	-		↓	↓	↓	↓	↓	/
212.95	214.9	1.97	.3		↓	↓	↓	↓	C_1	S_1
214.9	216.9	1.46	.3		↓	↓	↓	↓	C_2	↓
216.9	218.24	1.94	.2		↓	↓	↓	↓	↓	↓
218.24	220.4	1.91	.1		↓	↓	↓	↓	↓	↓
220.4	221.78	1.45	.3		↓	↓	↓	↓	↓	↓
221.78	223.7	1.98	.1		↓	↓	↓	↓	↓	↓
223.7	225.7	1.95	.2		↓	↓	↓	↓	↓	↓
225.7	227.6	2	1.2		↓	↓	↓	↓	↓	↓
227.6	229.6	1.96	.78		↓	↓	↓	↓	↓	↓
229.6	231.6	1.8	.2		↓	↓	↓	↓	↓	↓
231.6	233.6	2	-		/	/	↓	↓	C_2	S_1

[redacted]

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE # 87 HOLE-ID: DD96-87

Logged by: Lizzy C. Joy

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Vspy (%)	Sb (%)	$CaCO_3$	Silica Influx
233.6	234.1	.5	.2						C_1	
234.1	236.1	1.8	-						↓	
236.1	238.1	1.84	-							
238.1	240.1	1.92	-							
240.1	242.1	1.85	-							
242.1	244.1	1.7	.2							
244.1	245.6	1.74	.2						↓	
245.6	246.9	1.87	-		/	/			C_1	
246.9	247.9	1.09	.23		2	P_0			—	
247.9	249.9	1.86	.17		1	P_0				
249.9	251.76	1.85	.25		Tr	P_1				
251.76	253.7	1.72	.74		↓	↓				
253.7	255.7									
255.7	257.7	2.1	-							
257.7	259.9	2	.87							
259.9	261	1.34	.38							
261	262.8	1.87	.29		↓	↓				
262.8	263.9	1.06	.29		Tr	P_1				
263.9	265.48	.75	-		—	—				
265.48	266.8	1.39	-		—	—				
266.8	268.8	2	.91		1	P_0				
268.8	270.7	2.83	1.21		1	P_0			/	
270.7	272.64	1.5	-		/	/			C_3	
272.64	274.32	1.67	-						C_3	
274.32	275.72	1.59	-						C_3	
275.72	277.06	0.84	-						C_3	

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE 87 HOLE-ID: [redacted]-87

Logged by LIZZY & JOY

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
277.06	279.2	.94	-						C3	
279.2	281.2	2	-						C3	
281.2	284.93	1.99	-						C4	
284.93	286.93	1.25	-						✓	
286.93	288.84	1.96	.43						—	
288.84	290.5	1.85	.59						—	
290.5	292.45	1.71	1.13						—	
292.45	293.51	1.03	.66						—	—
293.51	294.5	.96	.11		✓	✓			✓	S1
294.5	295.9	1.21	-		Tr	Po				—
295.9	297.18	1.25	-		—	—				
297.18	299	2	.24		Tr	Po				
299.	301	2	13		↓	↓				
301	303	2	-							
303	305	1.99	-							
305	307	1.77	.45							
307	308	1.0	.42		↓	↓				
308	309.95	1.98	.78		Tr	Po			—	—
309.95	310.85	.49	-		—	—			C2	S1
310.85	312.5	1.3	.1						C2	S1
312.5	314.5	1.78	-						C2	S1
314.5	316.5	2	-						C3	—
316.5	318.21	1.71	1.88						C3	
318.21	319.43	1.37	.73						C3	
E.O.H									—	

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-88

SUMMARY LOG

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.8	CASING	
1.8	9.5	LAGM	5% LM
9.5	19.2	SH	3% LM
19.2	24.2	ARG	1% LM
24.2	38.4	ARGG	Tr LM
38.4	42.3	BAR	
42.3	45.1	SHG	Tr LM
45.1	56.1	SHG	3% LM,
56.1	63.1	SH	Tr LM
63.1	73.4	SH	Tr LM, Tr Py, C
73.4	81.0	SHG	C
81.0	82.4	ARGG	Tr Py, sk, S4, Bx
82.4	85.8	SHG	S2, C
85.8	89.9	SST	65:35 ARGG, Tr LM, sk, S3, C
89.9	97.2	SHG	S1, C
97.2	105.7	ARG	60:40 SST, sk, S2 C
105.7	107.8	SST	60.40 ARG, sk, S2, C, Bx
107.8	119.4	SHG	C
E.O.H			

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: AP96-88

August 23 1996

Page 2 of 9

Logged by: F. Andersen

Quick log

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
1.83	9.15	LAEM	5% LM, So
			pervasive yellow brown stain to strongly clay altered intensive. faint porphyritic texture
			- dk red brown boxwork indicates 5% LM after Py.
9.45	19.15	SH/ARH	3% LM
			- pervasive brecciation stockwork, broken by clay veining, crackle fracturing; LM clay coating fractures / infilling fractures ~ 60°-70° CA
			- orange brown stain along fractures shallows to CA
			- brecciated dk grey argillite clasts in a pale grey shaley matrix, Bdd ~ wavy, not planar (convoluted) pervasive LM altered clasts at 19.5-19.15m
19.15	24.2	ARH	1% LM
			weak stockwork, less laminite than overlying interval.
24.2	29.6	ARGG	Gr, TR LM
			clayey black graphitic; pale yellow and white clay altered stockwork - discontinuous
			- trace LM along bedding planes / fractures; 15% black/ grey shale clasts in graphitic matrix;
29.6	34.8	ARGG	TR LM
			- very little silty shaley sub angular clasts
			- only few fractures have clay (white/yellow) + limonite stain.
			- bedding is 60°-70° CA core breaks across graphitic/silty bedding.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-88

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
34.8	38.35	ARGG	TR LM
			- V. broken fractured clay development in last metre.
			- Iron Inconite along fractures
			- semi polished graphitic surfaces - areas of slip (thrust compression?)
			- core brecciated with a grey/tan pale grey matrix - intrusive? (beds plant supported Adult algae & fossil)
38.35	42.27	BXR	
			- bedded limestone with graphitic shale laminae.
			- bedding 45° to CA
42.27	45.10	SHG	TR LM
			- very platy cohesive graphitic shale ~~with~~ containing 5% grey clastic (coarse silt) fragments of various sizes
			- becomes oxidized (brown hued shale material) at 45.10m.
45.10	56.1	SHG	30% LM TR-1% HM
			- broken crumbled core from 48.10m to 50.75m
			- LM as thin angular fracture coating & staining of matrix
			- LM content decreases with depth

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: LDSG-88

August 22, 96

Logged by: F Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
56.1	63.05	SH	TR LM, Tr HM
			- LM, HM staining fractures
			- very little graphite; platy to blocky breaking
63.05	73.4	SH	Tr LM, sk, CA, Tr-1% HM, tr py
			- minor graphitic zones
			- LM + yellow clay coating fractures
			- pervasive wispy white clay stockwork (hairline - mm)
			- weakly calcareous groundmass
			- white clay altering stockwork associated with trace disseminated py.
			- sections of core are pitted (vuggy shale?) & filled by fe stained material, 68.6 to 72m.
			- non-calcareous, increased clay stockwork at 70.8m.
73.4	81.02	SHG	CA, sk
			- bedding 55° -> C.A, graphite content + clay content increases with depth
			- white stockwork is a powdery clay, strongly calcareous when powdered.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: 96-88

August 23

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
81.02	82.35	AAGG	Sil Gr, sk, bx, tr PY -dfd'ed, pervasive qz stockworked, matrix filling; pervasive hairline, clay stockwork, strongly graphitic fabric. - v. hard matrix
82.35	85.85	SHG	S_2, C_1 platey, graphitic, wk white clay alt; -harder matrix than usual
85.85	89.85	SST	Sg, Tr LM 65:35 AAGG, $C_1 \wedge C_2$ -Interbedded black stockworked grey Steel Fm & black graphitic cherty argillite; Bedding 65°-X-A -Steel Fm hard, tan grey weathering on fractures; -crackle fracturing healed by LM altering pale yellow mineral. -random white qz veins with wallrock clasts at shallow angles to C-A
89.85	972	SHG	S_1, C_1 Bedding 45°->C-A, planar, well developed Indurated graphitic shale. -minor white stockwork in upper ½ metre, patchy through rest of interval.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD 96-88

August 24 1996

Logged by: E Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
97.2	105.65	ARG	60:40SST, SK, S2, C1
			black, crackle fractured wavy bedded ARG & wispy black laminated, grey siltstone.
			- SST convoluted beds, encompass ARG fgm clasts/lenses & have pervasive hairline grey stockwork - hard matrix
			- ARG has silty, wavy interbeds
			- hairline white stockworking pervasive & semi-pervasive after 102.41m.
105.65	107.75	SST	60:40 ARG, bx, SK, C2, S2
			- large rounded clasts of arg in convoluted, qtz & chl stockworked SST hard matrix & large rounded clasts of sst in wavy laminated stockworked argillite; stockworking causes brecciation of clasts, disturbs/disrupts bedding
107.75	119.4	SHG	C1
			- black argillaceous shale graphite laminae
			- becomes more platy, shaley deeper down;
			- bedding changes steepens to C.A at depth;
			70°->CA at 118.7m; 60°->CA at 109m.
			- crumbly, graphitic 11.4 to 11.65m.
			- two or three large, sub-rounded sst clasts and 3-5cm beds;
			E.O.H. 119.4 m.

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

August 24/96

HOLE-ID: DDG 88

Logged by: Liz r Joy

From (m)	To (m)	Rec. (m)	ROD Major Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
1.83	3.9	0.61	0.9		5	P4				
3.9	5.9	1.45	0	"	5	P4				
5.9	7.9	2.15	0.26		5	P4				
7.9	9.45	.25	0	/	5	P4				
9.45	11.45	.84	0.23	3	0	/				
11.45	13.45	.79	0	3	0					
13.45	15.45	1.37	0.25	3	0					
15.45	17.45	1.67	0.88	3	0					
17.45	19.15	1.11	1.02	3	0					
19.15	21.15	1.60	0.62	1	0					
21.15	23.15	1.99	0.40	1	0					
23.15	24.2	.93	0.34	1	0					
24.2	26.2	1.85	0.35	Tr	0					
26.2	28.2	1.60	.20	Tr	0					
28.2	29.6	1.05	0.41	Tr	0					
29.6	31.6	2.00	0.71	Tr	0					
31.6	32.88	1.28	0.51	Tr	0					
32.8	34.8	1.51	0.13	Tr	0					
34.8	36.8	1.45	0.25	Tr	0					
36.8	38.35	0.30	.16	Tr	0					
38.35	40.35	1.73	.39	/	0					
40.35	42.27	1.64	.25	/	0					
42.27	44.27	1.44	.43	Tr	0					
44.27	46.27	1.41	.26	1	0					
46.27	48.27	1.44	.23	3	0					
48.27	50.27	1.05	.12	3	0					

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-88

Logged by: Liz + Joy

From (m)	To (m)	Rec. (m)	~~Major~~ Rev Limit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
~~50.27~~	~~52.27~~	1.73	0.73	3	0					
52.27	54.27	1.47	0.64	3	0					
54.27	56.1	1.54	0.45	3	0					
56.1	58.1	1.47	0.44	Tr	0					
58.1	60.1	1.95	0.10	Tr	0					
60.1	62.1	1.25	0.16	Tr	0					
62.1	63.05	70	-	Tr	0	/			/	
63.05	65.05	1.92	0.20	Tr	Tr	P_2			C_2	
65.05	67.05	1.66	0.10	Tr	Tr	P_2			C_2	
67.05	69.05	2.12	-	Tr	Tr	P_2			C_2	
69.05	71.05	1.37	0.34	Tr	Tr	P_2			C_1	
71.05	73.4	1.97	0.46	Tr	Tr	P_2			C_1	
73.4	75.4	1.71	-	/	0	/			C_2	
75.4	76.92	1.42	.38	/	0				C_2	
76.92	78.02	2.69	-	/	0				C_2	
78.02	80.02	87	0.45	/	0				C_2	
80.02	81.02	1.13	-	/	0	/			C_2	/
81.02	82.35	1.09	-	/	Tr	P_0			C_1	S_4
82.35	84.35	1.83	0.64	/	0	/			C_1	S_2
84.35	85.75	1.07	-	/	0				C_1	S_2
85.75	87.55	1.60	0.11	Tr	0				C_1	S_3
87.65	89.85	2.05	.95	Tr	0				C_1	S_3
89.85	91.85	1.43	.10	0	0				C_1	S_1
91.85	93.85	2.90		0	0				C_1	S_1
93.85	95.85	1.90	.43	0	0				C_1	S_1
95.85	97.85	-	-	0	0				C_1	S_1

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-88

Logged by: Liz + Joy

From (m)	To (m)	Rec. (m)	~~Major~~ Unit	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
97.25	99.2	2.12	0.49	✓	0				C1	Sz
99.2	101.2	1.89	.5	✓	0				C1	Sz
101.2	103.2	1.79	.64							
103.2	104.2	1.01	.33	✓	0				C1	Sz
104.2	105.65	1.37	.28	✓	0				C1	Sz
105.65	107.75	1.97	.72	✓	0				C2	Sz
107.75	109.75	1.66	0.30	✓	0				C1	✓
109.75	111.25	1.64	-	✓	0				C1	✓
111.25	113.75	1.96	0.52	✓	0				C1	✓
113.75	115.75	1.77	0.34	✓	0				C1	✓
115.75	117.5	1.9	.45	✓	0				C1	✓
117.5	119.32	1.12	0.14	✓	0				C1	✓
EOH										

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Lavoie field - adapted by C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.8	Casing	Casing
1.8	17.0	SST	<1% P_y, P_2/P_1, S_2, SK
			Light - medium grained siliceous unit (chert?)
			locally strongly fractured; moderate fracture
			controlled to pervasive silicification + mod -
			strong (5-20%) silica veinlets (stockwork?)
			Silicified version of dolomitized SST of
			DDH 96-91. Fractured throughout
			1.8 - 9.4m: 10% discontinuous buff colored
			beds with 10-20% matrix supported
			round quartz grains, silicified matrix
			9.5 - 9.8m - Boxwork (brecciated?)
			10.5m - Boxwork (brecciated?)
			11.5 - 12.6m - Silicified fine grains with argillically
			altered
			12.6m - ? - oxidized, fracture controlled pyrite
			14.5 - 15.8m - Qz grains in argillically altered matrix
			16.5 - 17.0m - 50:50 SH: Fault contact of
			SST + SH - fractured
			3.8m: ~~50~~ Bedding at 80° to core axis
			4.0m: Cleavage (with displacement?) at 45° to
			core axis
17.0	21.0	ARG	3% P_y, P_{2-3}
			Black shale dominant, fractured - brecciated
			from 20.0 - 21.0m, faulted with brittle, angular
			fragments. 3% very fine grained, mod - strongly
			oxidized, fracture controlled pyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 97-59

Logged by: I Lindefelt

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
21.0	28.2	SST	P_4, S_2, partial SK, 1% Lim,
			21.0 - 22.4m: Fault zone; Grey silicified rock,
			black from 22.0-22.4m. Brecciated,
			limonitic, clay altered, indurated from 22.0m
			22.4 - 28.2m: light - medium grey, bedded, partly
			silicified, fractured to brecciated -
			dolomitized? from 24.8-28.2m
			24.8-28.2m: 5% Qz veinlets, 2% fracture controlled
			+ disseminated pyrite
			22.4m: Bedding at 30° to core axis, offset by
			fault cleavage at 60°
28.2	30.0	ARG	
			Light grey, bleached argillite, extensively
			fractured
30.0	39.1	CH	S_1, SK, 1% Lim; P_1
			Black chert (silicified and formerly
			calcareous unit?) Strongly fractured, not
			brecciated
			36.8 37.5m: Intact
			37.5 - 39.1m: Fractured
			37.5m weakly oxidized pyrite
3			
39.1	42.3	SST?	S_{2-3}
			Light-medium grey, some clay altered brecciated
			matrix, angular - rounded fragments

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
42.3	43.0	CH	S_1
			Black chert or silicified unit, same as unit
			from 30.0-39.1m
43.0	45.7	SS	
			Light to dark grey, siliceous sandstone, very
			fine to medium grained, disrupted bedding
			44.0m: bedding at 45° to core axis
			45.0m: Boudinaged bedding at 40° to core axis
			45.1-45.7m: Brecciated zone
45.7	60.9	SST	60:40 ARC, P_4/P_{0+}, 3% Lim
			Primarily sedimentary, variably bleached, 80-100%
			bleached from 45.7-47.8m; 20-30% fracture controlled
			bleaching from 47.8-52.5m. Strongly-completely
			oxidized pyrite along fractures, + fracture stock-
			work, unoxidized to weakly oxidized pyrite
			disseminated throughout rock
			52.5-53.6m "Freshest" interval. Unoxidized to
			weakly oxidized fracture controlled
			+ disseminated pyrite in argillite and siltstone.
			55.0m: bleached along limonitic + pyritic fractures
			55.2m: 5% weakly oxidized pyrite, very fine
			grained, fractures sheeted? at 50° to
			core axis.
			60.3-60.9m: Fault zone, dark red-brown limonite,
			argillic alteration in gouge. 7-10% strongly
			oxidized pyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
60.9	63.9	SST	50:50 ARG, P_4
			Dark grey, locally bleached + weathered, no obvious bedding. Strongly bleached + clay rich (argillic alt?) from 60.9-62.0m, moderately oxidized + bleached from 62.0-63.9m
			63.4-63.6m: thinly bedded barite with clay + chert beds
			63.6-63.9m: black chert, fault breccia.
63.9	66.5	SST	60:20:20 ARG, SS:, P_2
			Dark grey, bedding almost obscured, bleached organic matter, partially oxidized pyrite
			- Dominant fracture direction = 60° to core axis.
66.5	68.5	SST?	3% Lim
			Fault zone: Ochre colored, crumbly rock - fault gouge with sandstone, Stede Formation siltstone (listed as SST) fragments - Limonitic
68.5	76.7	SST	60:30 ARG, P_3, 3% Lim
			Mixed SST + ARG, + 10% sandstone, crumbly, oxidized. Strongly oxidized pyrite from 71.2-72.9m. Limonitic, clay altered fault zone from 71.9-72.3m. Ochre from 72.3-72.9 m.
			74.4-75.7 m: less oxidized zone
			75.7-76.7m: Bleached, argillic, limonitic altered zone
76.7	84.4	SS	70:30 SST, S_1, 3% Lim
			Medium-very fine grained sandstone, crumbly near contact

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			77.4 - 78.0m - partly silicified
			78.6 - 79.0m - limonitic, clay rich fault zone, silicified rounded fragments.
			80.6 m - brittle faults, little oxidation
			81.1 - 83.6m - broken, fractured, strong limonite along fractures. Some sulphate development below 79.5m.
			83.6 - 84.3 - Partly bleached fine-very fine grained sandstone
84.4	86.2	SS	4% Lim
			Brittle, intact to friable gouge in sandstone, clay, limonitic, ochre colored.
			84.4 : Fault at 20° to core axis
			8°
86.2	98.2	SS	S1-S2, SK, 3% Lim
			Brecciated sandstone, broken rock (fault zone?)
			with limonitic + argillic alteration from 86.6-87.6m. Fractures re-cemented with quartz, moderately silicified with quartz stockwork
			From 90.4-98.2 - argillic alteration from,
			96.5-98.2m. Fracture controlled limonite below 96.0m
			90.4 : Bedding at 70° to core axis
			93.3 : " " 50° " " "
			96.8 " " 60° " " "
98.2	98.9	SST	
			Black - dark grey siltstone, fractured, brecciated

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
98.9	99.5	SS	S_1
			Light-dark grey, partly silicified sandstone
			Fractured above lower contact
99.5	104.9	LAQM	P_{1-2}, 4% Py, 3% Lim, S_2 SK
			Limonitic altered quartz monzonite; feldspar
			altered to white clay, & stockwork of fine
			quartz veinlets, limonitic. Contact limonite,
			probably intrusive rather than fault controlled.
			3-5% weakly-moderately oxidized pyrite,
			fracture controlled? Local clerty xenolith.
104.9	105.9	AQM	5% Py, Po-1, S_1 SK
			Phyllic alteration of feldspar, qz veinlets to
			3 mm at 75°-60° to core axis + thin clay
			seams. 3-7% fine grained unoxidized to weakly
			oxidized pyrite, ~~oxidati~~ in "matrix", minor
			pyrite in qz veins. - strongest pyrite oxida-
			tion fracture to vein controlled.
			105.0-105.9m - 2-5 cm wide siderite veins
105.9	113.0	LAQM	5% Py, P_1, 2% Lim,
			Variable intensity of alteration, local 3-10cm
			unaltered zones.
			105.9-107.5m - Siderite veins parallel to
			core axis, slickensides normal to core axis.
			5% Pyrite, weakly oxidized (unclear if across
			entire interval).

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
113.0	120.0	CH	80:20 SS, P_{1-2}, S_1, S_K
			Light-med grey chert, upper contact faulted, fractured, healed with limonitic clay. 10% strongly altered pyrite "clots", ~~toilly~~ 3m Brecciated, sheared argillite at 113.5, 113.7m. 20° light grey silty beds
			113.0m: Bedding at 55° to core axis.
			115.8m: Grey siliceous unit: chert?
			114.3 - 118.0m: 1-2% very fine grained disseminated Py
			119 - 120m: very fine crackle stockwork of qz stringers + clay alteration, weak very fine vein associated pyrite + disseminated pyrite.
			117.0: Bedding at 85° to core axis - Bedding dismembered (throughout?) - very fine grained disseminated pyrite more abundant in SS.
120.0	127.5	CH	60:40 SS, S_2, SK, 3% Limonite, P_4
			Mixed chert + sandstone. Consistantly fractured + brecciated, interstitial clay alteration + chert fragments, frequently limonitic. Moderate to strongly limonitic, particularly from 122.2-125m. Bedding commonly disrupted.
			122.4 - 124.4m: Breccia, limonitic clay matrix
			124.4 - 124.8m: Limonitic rich clay, broken rock.
			125.3 - 127.5m: Fractured chert, quartz veinlets with black (C-rich?) specks + pyrite
			Quartz stockwork, <1% unoxidized

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-89

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			pyrite
			127.1m: bedding at 60° to core axis
127.5	134.3	SLT	50:40 SS, S_1, S_K, P_1-$_2$ to P_g, 1% limonite
			Mixture of siltstone + sandstone and 10% argillite.
			Black to dark grey, bedding disrupted, transported,
			deformed. Irregular quartz stockwork below
			130.6 m, ~~is~~ fracture controlled. Trace unoxidized
			pyrite, trace limonite along fractures.
134.3		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld, adapted by C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.8	Casing	
1.8	4.2	QM	C_2, S_0, tr P_3, P_1, 3% Lim, B_1
			Fresh, medium grained, 15% altered plagioclase,
			10% euhedral biotite, moderate carbonate alteration
			Flow alignment of plagioclase + biotite. Trace
			weakly oxidized pyrite
4.2	10.4	LQM	C_2, S_1, 2% P_3, P_2, 5% Lim, B_{1-2}
			Limonitic qz-monzonite, weak quartz stockwork,
			moderate carbonate alteration, ~~trace~~ 2% strongly
			altered pyrite, ~~strongly~~
			5.5 - 6.4 m: Brittle Fault zone with clay gouge
			6.4 - 6.8 m: LAQM : AQM 60:40
			6.8 - 10.4 m: broken LQM; small intervals of
			transitional AQM, moderately altered
			biotite along + between fractures.
			2-3% disseminated pyrite, up to 4% along
			fractures, strongly oxidized
10.4	13.3	LAQM	90:10 AQM : C_2, S_1, 1% P_3, P_2, 2% Lim, B_3
			Mixture of weakly limonitic altered quartz
			monzonite and similar, nonlimonitic qz monzonite
			Strong phyllic alteration, biotite strongly altered
			Moderate carbonate alteration, weak fine quartz
			stockwork with minor pyrite. 1% strongly
			oxidized, euhedral, fine grained pyrite, weakly
			oxidized in AQM.
			12.3 - 12.5 m: Minor sedimentary (SLT, ARG) gouge
			unit.
13.3	13.7	ARG	C_0, S_1, SK, 2% Lim, 1% P_3, P_2

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: MM 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Faulted, deformed argillite, weak folded quartz stockwork, 1% strongly oxidized pyrite.
13.7	15.6	LAQM	C_2, S_1, 1% P_y, P_s, 5% Limonite, Sk, B_z- Strongly limonitic LAQM, moderate carbonate, strong biotite alteration, weak fracture controlled quartz stockwork. <1% disseminated pyrite, strongly oxidized, ~~disse~~ concentrated along fractures.
15.6	16.1	SS	C_0, S_1, 2% P_y, P_s, 2% limonite Sandstone - siltstone, fault breccia, 3% quartz veinlets. Weak stockwork, weakly limonitic, 2% strongly oxidized pyrite
16.1	19.8	LQM	C_2, S_0, 0.5% P_y, P_y, 5% Lim, B_{1-2} argillic + Moderately limonitic qz-monzonite & sericitic alteration of feldspar, minor alteration along rims of biotite, weak quartz stockwork, local limonitic ~~veinlets~~, 0.5% disseminated + fracture controlled nearly totally oxidized pyrite
19.8	22.0	QM	C_2, S_0, 0.5% P_y, P_2, 1% Lim Weakly limonitic quartz monzonite, moderate carbonate content, trace quartz stringers. 0.5% med. oxidized disseminated + fracture controlled pyrite. Limonite fracture controlled

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
22.0	23.2	LAQM	50:30:20, AQM, QM; C_2, So, tr P_y, P_2, 2% Lim
			Mixed weakly limonitic altered qz-monzonite, non-limonitic AQM, and unaltered QM.
			10% 3mm oval clear chert blebs. Trace pyrite after biotite, possible stibnite (0.5%), difficult
			to distinguish. Moderate carbonate alteration.
23.2	26.2	QM	C_2, So, tr P_y, P_2, 1% Lim
			Dark grey qz monzonite, 40% weathered (limonitic?). Trace moderately oxidized pyrite
26.2	30.1	LQM	70:30 LAQM: C_2, So, 0.5% P_y, P_4, 2% Lim
			Mixed LAQM + LQM: moderately-strongly
			fractured, broken core, 2% qz stockwork
			0.5% disseminated + fractured controlled pyrite,
			almost totally oxidized. Weak but pervasive
			limonite. Moderate carbonate presence
30.1	31.8	QM	C_2, So, tr P_y, P_2, 2% limonite, B_1
			Similar QM to unit from 23.2-26.2m, 40% limonite
			stained. Moderate carbonate presence; 10% white
			chert blebs, sericite (phyllitic) alteration of
			feldspar, biotite fresh. Trace moderately
			oxidized pyrite
31.8	32.6	LQM	C_2, So, tr P_3, P_2, 2% Lim
			Broken, fractured weakly, pervasively limonitic
			qz-monzonite, lower contact faulted, Moderate

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			carbonate presence, trace strongly oxidized pyrite. Minor quartz veinlets (?)
32.6	36.8	QM	C_2, So, tr-P_3, P_2, 1% Lim, B_1
			Similar qz-monzonite to unit from 23.2-26.2m, weak limonite staining, moderate carbonate presence. Trace moderately oxidized pyrite
			34.8m: stronger alteration, 3mm blebs of pyrite + limonite along "chert veinlets".
36.8	38.2	LQM	C_2, S_1, tr P_3, P_2, 2% Lim
			Weakly limonitic qz-monzonite, weak quartz stockwork, trace nearly totally oxidized pyrite, moderate carbonate
			36.8-37.4m: Faulted zone - broken core
			37.5m: Qz-chert unit at 85° to core axis
38.2	47.0	QM	C_2, So, tr-1% P_3, P_2, 1% Lim, B_1
			Quartz monzonite, weakly, variably limonitic. Moderate carbonate presence, trace - 1% moderately oxidized pyrite, increasing slightly with depth.
			Biotite usually fresh, moderately altered from 39-40m; feldspar moderately phyllitically altered
			43.0-44.0m: Thin chert units, ~5% across interval, at 50°, 10° to core axis, minor alteration in country rock.
			42.5-42.7m: fault.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
47.0	48.1	LQM	Co, So, tr P_2, P_4, 2% Lim
			Weakly limonitic qz-monzonite, faulted, with gouge. Tr-1% almost totally oxidized pyrite
48.1	55.5	QM	C_2, So, tr P_2, P_3, 1% Lim
			Similar qz-monzonite to unit from 23.2-46.2m, moderate carbonate presence, trace strongly oxidized pyrite, weakly limonitic
			52.7-52.9m: Small AQM unit, 3% P_2.
55.5	57.8	LQM	C_2, So, tr P_2, P_3, 2% Lim
			Similar LQM to unit from 47.0-48.1m; trace strongly oxidized pyrite, weakly limonitic, moderate carbonate presence.
			56.4-56.9m: Qz-monzonite, similar to 48.1-55.5 int.
57.8	64.4	LAQM	80:20 AQM C_1, So, 2% P_2, P_3, 2% Lim
			Mixed weakly limonitic altered qz-monzonite and unaltered qz-monzonite. Colour caused by pyrite oxidation. 2% fracture controlled strongly oxidized pyrite. Weak carbonate presence.
64.4	66.6	ARLC	Co, S_1, 2% P_2, P_3, 3% Lim
			Argillite, fractured, deformed, no visible bedding, 2% fracture controlled pyrite, strongly oxidized unit moderately limonitic. Faulted upper contact, irregular deformed milky quartz stockwork decreasing intensity with depth.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			1-2% disseminated pyrite away from fractures
			64.4 - 64.6 - Very strongly fractured fault zone, strong quartz stockwork; 80° to core axis
66.6	67.2	AQM	C_2, So, 7% P_y, P_1, 1% Lim
			Altered qz-monzonite, weakly limonitic, mod. carbonate presence, weakly fspar porphyritic.
			7% fracture controlled + disseminated pyrite, weakly oxidized along fractures, concentrated along fractures.
67.2	68.7	ARGC	Co, So, 4% P_y, P_1, 2% Lim
			Argillite, similar to unit from 64.4 - 66.6m, but less deformed, more fractu strongly fractured.
			3-5% weakly oxidized fracture controlled pyrite, weakly limonitic
68.7	69.3	LQM	C_1, So, 2% P_y, P_4, 1% Lim
			Weakly limonitic qz-monzonite, 2% strongly oxidized pyrite, weak carbonate presence
69.3	69.8	AQM	C_2, So, 5% P_y, P_6, 1% Lim, B_2
			Weakly limonitic altered qz-monzonite, moderate phyllitic + biotite alteration, moderate carbonate alteration. 5% fracture controlled, strongly oxidized pyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
69.8	71.6	LQM	80:20 QM : C_2, So, 1% P_y, P_3, 2% Lim, B_{1-2}
			Mixed limonitic + non-limonitic qz-monzonite,
			mixed unaltered + partially altered monzonite,
			1% strongly oxidized pyrite
71.6	76.7	QM	C_2, So, tr P_y, P_2, 2% Lim, B_{1-2}
			Locally limonitic qz-monzonite, moderate
			carbonate presence. Trace moderately oxidized
			pyrite
			@ 75.3-76.1m : AQM + mixed AQM+QM, moder.
			carbonate alteration, 1-2% strongly
			oxidized pyrite.
76.7	84.6	LAQM	80:20 AQM : C_2, So, 1% P_y, P_3, 2% Lim
			Mixed LAQM + AQM, weakly limonitic LAQM.
			Moderate carbonate presence, 1-2% strongly oxid-
			ized pyrite. Minor qz-monzonite. Beige-green
			to grey-green.
84.6	88.2	AQM	70:30 LAQM, C_1, So, 1% P_y, P_2, 1% Lim
			Mixed AQM + LAQM, latter weakly limonitic,
			weak carbonate alteration. 1-2% moderately
			oxidized pyrite, limonite fracture controlled -
			bottom of oxidized zone.
88.2	90.2	QM	C_2, So, tr P_y, P_2, 1-2% limonite, B_1
			Weakly limonitic qz-monzonite, little fspar
			biotite alteration. Trace strongly oxidized

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Pyrite.
90.2	96.9	ARGG	C$_{2-3}$, S$_1$, 5% Py, tr Lim, Po-1, SK
			Black graphitic argillite. Upper contact faulted at 50° to core axis. Moderate carbonate
			alteration to 92.1m, quartz cemented microbreccia,
			brecciated zones 1-3 cm wide(?) 5-7% fine
			grained disseminated euhedral unoxidized to
			weakly oxidized, latter fracture controlled
			with minor limonite. Siliceous, likely an
			alteration.
96.9	120.6	LST	C$_{2-3}$, So, 4-5% Py, Po
			Variably fractured, fissile + intact black
			limestone, 30-40% fine chert, in stockwork +
			disseminated (silicification??). Carbonate
			primary, fairly constant 5% pyrite, unoxidized
			and fine grained, from 96.9-99.8m: 3% med fgr.
			from 99.8 - 108.3m - disseminated; and 5% laminae
			controlled + disseminated to 120.6m. Pyritic
			oval nodules from 108.3 - 110.5m. Likely diagenetic
			across interval.
			96.9-98.8 - broken, fissile, fractured
			98.8 - 100.1 - weakly fractured
			100.1 - 100.5 - fractured, fissile
			100.5 - 101.8 - weakly fractured
			102.4 - 102.9 - solid, stockwork (10% chert)
			102.9 - 106.2 - fractured, fissile

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			106.2 - 108.6 ; fewer fracture zones
			108.6 – 110.5 : Fractured, at 60° to core axis
			110.5 – 111.3 : Pyritic beds : 65° to C.Axis at 110.8m
			111.3 – 113.5 : Chert "ribbons", bedding ?
			(Silicification ?), at 60°+80° to C.Ax.
			120.5 – Cleavage at 55° to core axis
118.6	121.2	AQM	C_3, So, 5% P_3, Po, tr Sb
			Altered quartz monzonite, strong carbonate
			presence (alteration ?) sericitic alteration of Fspar, biotite
			5% very fine grained Pyrite, fracture controlled (?)
			+ disseminated, trace stibnite, arsenopyrite ?
			Minor late argillic alteration
121.2	124.3	ARGC	C_3, So, 2% P_3, Po
			Argillite, brecciated fault contacts, weak
			clay stockwork (?) along lower contact, at 20° to
			core axis. Locally brecciated, chert (silica ?) matrix
			2% very fine grained, euhedral pyrite
124.3	125.8	AQM	C_3, $S_{1/2}$ 4% P_3, Po, tr-1% Sb, B_3, Sk
			Altered qz-monzonite, brecciated, beige.
			15% stockwork of quartz - sulphide +
			baelinite. 4% very fine grained unoxidized
			euhedral to anhedral pyrite, disseminated
			+ fracture controlled with clay. Up to 1%
			stibnite, & veinlet controlled, possible arseno-
			pyrite. Strong carbonate alteration

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
125.8	128.1	SST	C1, S2, 3% Py, Po, SK
			Black-grey Stele Formation siltstone, brecciated, angular to rounded fragments, silicified (strongly? moderately?), moderate quartz stockwork. Upper fault contact at 50° to core axis, 3-4% very fine grained unoxidized pyrite, some along fine fracture controlled quartz veins. Silicification after bedding? at 50° to core axis.
128.1	140.0	SST	Co, S1, 2-4% Py, Po
			Sandstone (argillite?): black, siliceous, compact, not cherty. Weak pervasive silicification, very minor white quartz stockwork. 4%-5% disseminated + laminae controlled pyrite from 128.1-132.0m, 2% very fine grained pyrite from 132.0-140.0m; all pyrite unoxidized.
			128.1 - 130.0m: Fractured
			130.0 - 132.3m: Fissile
			132.3 - 139.1m: graphitic along cleavage; bedding parallel to cleavage(?) at 65-70° to core axis at 132.7°.
			139.1 - 140.0m: Fault, gouged in black matrix, siliceous fragments
140.0	149.8	ARGF	Co, S1, 2% Py, Po
			Dark grey to black, siliceous (silicified?)

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			argillite, minor sandstone, weak irregular quartz stockwork, moderately fractured from 140.0-142.0m, with 3% fine grained fracture controlled pyrite, 2% very fine grained pyrite elsewhere, unoxidized. Moderate carbonate presence from 148.0-149.8m, none noted elsewhere.
			142.6m: bedding at 25° to core axis
			146.1-149.8m: Black, siliceous, quartz stockwork, strongest from 147-149.8m.
149.8	157.9	LST	C3, So, 2% Py, Po-P1
			Limestone, minor SST(?), upto 40% disseminated calcareous chert(??) in matrix
			2-3% nodular unoxidized pyrite, from 2-10mm.
			Graphite along foliation (or bedding)
			151.5m: Bedding at 60° to C.A; fractures at 25°
			157.3m: Pyritic graphitic slickenslides at 50° to core axis
157.9	160.6	LST	C3, So, 3% Py, P1/P2, 1% Limonitic
			Mixed limestone + sandstone (no ratios given) in fault breccia, healed with chert + clay (silicified, argillically altered matrix). Partially weakly limonitic
			2-3% disseminated, anhedral weakly oxidized pyrite, strongly oxidized from 158.6-160.6m
			158.6-160.0: More limonitic-oxidized + crumbly

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Carbonate along fine fractures below 160.0m
160.6	163.1	SST	$C_2, S_1, 1\% Py, Po, 0.5\% Lim$
			Steele formation siltstone - dark - light
			grey bedding at 35° to core axis at 161.1m;
			Faulted, brecciated locally. Orange chert
			matrix + grey clay matrix. 1% very fine grained
			unoxidized pyrite.
163.1	164.8	LQM	$C_3, Sa/S_2, 0.5\% Lim, B_{1-2}$
			Strongly argillically altered - 80% clay + (chert?)
			biotite recognizable, strong carbonate alteration
			weak limonite staining.
164.8	165.3	AQM	$C_3, S_2, tr Py, Po, 1\% Lim$
			Strong carbonate alteration in strongly altered
			qz-monzonite - "weathered", silicified,
			with very fine quartz stockwork. Trace
			unoxidized pyrite, weakly limonitic.
165.3	171.7	SST	$C_3, S_1, 0.5\% Py, P_3/P_1, tr Lim.$
			Light - dark grey, locally greenish (chlorite alt)
			beds, at 60° to core axis at 165.3m.
			Quartz stockwork crosscut by chert
			(silica?) stockwork, weak - moderate.
			165.5 - 166.4m: Chlorite + disseminated chert,
			trace unoxidized pyrite - strong silicific.
			166.4 - 170.2m: Mixed carbonate + silica alt;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			0.5% euhedral strongly oxidized beds in
			altered cherty beds, locally unoxidized silicified
			beds
			170.2-170.5 m: Carbonate postdates silica alt.
			167.3 m: Bedding at 45° to core axis
171.7	173.6	QM	C_1, S_0, tr P_y, P_2, 1% Lim, B_1
			Q_2 - mozaic, 15% biotite, sericitic alteration
			of feldspar. Weak carbonate alteration along
			carbonate veinlets. "Pyrite" may be weathered
			feldspar
173.6	175.2	SST	C_1, S_4, tr P_y, P_4, 0.5% Lim, SK
			Grey to beige-grey beds, very weakly limonitic
			173.6-174.3: >80% silicified 5% chert+quartz
			veinlets. Upper contact (intrusive)
			at 70° to core axis.
			174.3 - 175.2 m: 40% silicified, similar stockwork.
			Trace strongly oxidized Py throughout.
175.2	177.7	SS	60:20:20: SH, SLT: C_4, S_2, tr P_y, P_2, 0.5% Lim
			Mixed sandstone, siltstone, shale. Sandy beds
			preferentially silicified + more carbonate
			cement. Bedding at 35° to core axis at 177.0m.
			Greenish colour due to chlorite, altered to
			beige - cream colour near fine quartz veinlets.
			Trace strongly oxidized pyrite, altered
			rock weakly limonitic.
			176.5-177.7m. 75-80% silicified.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
177.7	182.6	QM	C_1, SO, tr P_3, P_2, 0.5% Lim, B_{1-2}
			Qz monzonite, weakly carbonate altered,
			biotite partly altered. Upper contact faulted,
			at 15° to core axis. Fine carbonate veinlets.
			Trace strongly oxidized pyrite, weak
			fracture controlled limonite, slightly
			stronger below 181.6m
182.6	196.1	SST	C_2, S_2 tr P_3, P_{3-4}, 1% Lim, SS
			SST (Steele formation?), green-beige, minor
			carbonate rich beds, variably limonitic (tr-2%),
			Weak chert stockwork, trace strongly-comp-
			letely oxidized pyrite. Bedding subparallel to core axis, strongly variable
			186.6-187.0 }
			189.2-190.6 } Fracture zones, broken rock
			191.7-192.8 }
			- Weak pervasive silicification, except:
			186.6-189.2m }
			190.6-191.7 } strongly silicified
			195.2-196.1 }
			191.7-193.5 - Moderately silicified
196.1	199.7	LAQM	C_3, SO, 1% P_3, P_4, 3% Lim, SK
			Mixed LAQM + LQM (no ~~percentages~~ ratios given),
			some SST xenoliths, altered intrusive
			red-orange - mod-strongly limonitic, strong
			carbonate alteration. Local QVCC + SST
			clots from 198.2-198.6m. 1% almost completely

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			oxidized.
			198.7-199.6m: Limonite rich fault gouge
199.67	203.2	SST	C_3, S_2, 0.5% P_y, P_3, tr Lim., SK
			Steele formation, strong carbonate presence,
			moderate-strong pervasive silicification,
			weak chert stockwork, Trace-1% strongly
			oxidized pyrite
			200.5m: Bedding at 10° to core axis
			203.2m: Fault gouge at 20° to core axis
			199.6-201.1m: 40% silicification, 50% carbonate
			cement
			201.1-203.2m: >80% silicification - grey beds
			chloritic beds strongly calcareous
203.2	204.6	LAQM	C_3, S_2, 0.5% P_y, P_4, 3% Lim, SK
			Strongly carbonate altered, fractured, med-fine
			grained. 10% chert veinlets. Moderate
			pervasive limonite, 0.5-1% nearly completely
			oxidized pyrite.
204.6	209.0	SST	C_3, S_2, tr P_3, P_3, 1% Lim, SK
			Weakly pervasively limonitic Steele formation?,
			grey with greenish chloritic beds, thin
			bedded, 40-50% chert (silica) matrix. Moderate
			fracture controlled silica alteration, strong
			similar carbonate (possible dolomitization).
			Chert healed fine stockwork. Trace strongly

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-90

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			Oxidized pyrite.
			205.5-206.5 : Brecciated, clay gouge
			207.2 m : Fracturing at 35° to core axis
209.0		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-91

Logged by: L. Landefeld - adapted by C. Schulze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	3.7	Casing	
3.7	4.9	Rubble	Rubble - poor recovery
4.9	12.5	SHG	Co, So, 1% Py, Py, 1% Lim
			Graphitic black shale, local grey weathering,
			fissile, crumbly, largely fractured
			7.1 - 8.5 m. Localized qz veinlets, cleavage
			(parallel to bedding?) at 75° to
			core axis at 8.0m.
			- 1-2% fracture controlled strongly oxidized
			pyrite, assoc. with weak limonitic staining
12.5	20.5	ARG	Co, So, 1% Py, Py, 1% Lim
			Argillite, gradational upper contact, fissile
			+ fractured to 16.6m, more competent from
			16.6 - 20.1m. Weak fracture + cleavage plane
			controlled limonite after fracture controlled
			almost completely oxidized pyrite
			14.5m: Cleavage (parallel to bedding? at 45° to
			core axis
			20.1 - 20.5: Silicified, brecciated, silica stockwork
20.5	22.6	LAQM	C, S, 2% Py, Py, 2% Lim, SK
			Mixed limonitic + non-limonitic altered
			quartz monzonite + minor unaltered qz-monzonite
			Argillically altered matrix. Brecciated, fine
			quartz-chert stockwork (post-mineralization?)
			50-80% undergone limonite alteration, variable
			amounts (0-3%) of strongly oxidized very

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			finely grained pyrite.
22.6	24.0	ABCC	Co, S1, 1% Py, P2, 2% Lim, Sk
			Brecciated, faulted argillite, silicified
			argillite + sandstone fragments. At 23.2 m,
			fault cleavage at 65° to core axis. 1% fine
			grained strongly oxidized pyrite.
24.0	27.1	LAQM	C1, S2, 4% Py, P1, 1% Lim, B3, 1% Asp, 1% Sb.
			Weakly limonitic, orange LAQM, minor sed-
			imentary xenoliths. Moderate fine quartz
			stockwork, weak carbonate alteration of
			groundmass. 2-7% pyrite C (increasing concen-
			tration with depth), disseminated + fracture
			controlled, weakly oxidized, fine grained.
			1% arsenopyrite (?), 1% stibnite, vein controlled.
			26.3-26.6m: Brecciated argillite.
27.1	51.8	AQM	C1, S2, 3% Py, P1, 1-5% Sb, 1% Lim, B3, Sk
			Altered quartz monzonite, localized fracture
			controlled limonite, often with plagioclase
			megacrysts, localized quartz eyes (?). Phyllic
			alteration of feldspar (to sericite), biotite
			strongly altered to rutile + carbonate.
			Moderate, variable quartz ± qz-carbonate
			stockwork, 1-7% Py, variable concentration,
			weakly oxidized, fracture controlled, lesser
			amounts disseminated. Variable vein controlled

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			stibnite, from 0.5 - 10% (27.1m - 48.7m, 10% from 37.5 - 38.6m in increased stockwork zone overlying clay altered zone), then 5% to 51.8m. Increased pyrite concentration with depth, stibnite associated with clay (argillic alteration).
51.8	52.0	ARGG	C1, Sz
			Fault controlled, brecciated argillite, moderate quartz stockwork, weak carbonate alter
52.0	61.1	AQM	C1, S1, 2-6% Py, Pl, 1% Aspy, 4% Sb, 1% Lim, SK
			Beige - green AQM C sand unit as 27.1-51.8m), locally fractured, introduced argillic alteration. Moderate variable qz - stibnite stockwork with clay alteration, 1-7% stibnite, strongest from 57.6 - 59.4m. 2-6% Pyrite, variable concentration, unoxidized when disseminated, strongly oxidized along fractures. 0.5-2.0% arsenopyrite assoc. with strongest stibnite concentration, from 56.3 - 61.1m.
61.1	62.0	ARGG	C1, S1, 4% Py, Po, ~~0.5% Aspy~~, 0.5% Lim, SK
			Fractured argillite, silicified with quartz veinlets. Fault contact at 65° to core axis at 60.8m. 4% unoxidized fracture + cleavage controlled pyrite, weak limonite staining

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
62.0	62.4	AQM	C1, S1, 2-3% Py
			- Fault contact at 70° to core axis at
			62.4m, weak carbonate alteration, quartz
			stockwork, 2-3% pyrite.
62.4	63.4	ARGF	C1, S1, 2% Py, Po, Sh
			Fractured graphitic argillite, with silici-
			fication + deformed quartz veinlets, 2% very
			fine grained disseminated unoxidized
			pyrite.
63.4	101.5	LST	C3, So, 2% Py, Po
			Limestone, black, carbonaceous, thin bedded,
			very weakly fissile, bedding usually not
			visible. 2-4% unoxidized pyrite to 67.7m,
			then consistantly 2% very fine grained pyrite
			to 101.5m.
			64.0m: 1 cm thick beds with 10% Pyrite
			+ bedding, cleavage (?) at 50° to core axis.
			63.4-66.0m: Variably fractured, irregular
			qz veinlets from 65.5-67.7m
			68.4-69.0m: 1cm wide chert "veins" 55°
			to core axis.
			78.0m: Bedding, cleavage at 75° to core axis
			83.0m: Bedding at 50° to core axis
			84.1-85.5m: Marcasite "dollars"
			97.6-7m Fault zone, black gouge
			101.5m: Lower intrusive contact at 70° to C.A.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
101.5	104.7	QM	C2, So, 1% Py, Po, B1-2
			Qz monzonite, minor altered qz-monzonite,
			argillic + phyllic alteration of feldspar, 15%
			biotite, weakly altered, feldspar porphyritic
			1% very fine grained unoxidized feldspar.
			Dark green, moderate carbonate alteration
104.7	105.6	AQM	C2, So, 3% Py, Po, 2% Asp, 1% Sb?
			Beige-medium green altered quartz monzo-
			nite, strong feldspar, biotite alteration.
			2-3% unoxidized disseminated fine grained
			pyrite, also fracture controlled, with 2-3%
			arsenopyrite + stibnite, also minor dis-
			seminated arsenopyrite. Moderate carbonate
			alteration.
105.6	107.7	QM	C2, So, 2% Py, Po, B1-2, tr Asp.
			80% partially altered qz-monzonite, 20%
			with unaltered biotite. Minor chert, fspar
			altered to dark grey-white (clay minerals).
			105.6-106.0m: Trace vein associated arsenopyrite,
			0.5-1.0% pyrite, moderate carbonate alteration.
107.7	108.9	AQM	C2, So, 2% Py, Po, B2-3
			Partly altered quartz monzonite, dark green,
			feldspar megacrysts. Moderate carbonate
			alteration, 1-2% disseminated + fracture controlled
			unoxidized pyrite, chlorite along fractures.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
108.9	110.0	QM	C_2, So, 1% Py, Pl, tr Asp? , B_2
			Dark green moderately altered qz-monzonite.
			Moderate carbonate alteration, 1% disseminated
			+ fracture controlled weakly oxidized pyrite,
			clay + chlorite along fractures.
110.0	116.8	AQM	C_2, So, 3% Py, Po, B_2, tr Asp
			Partly altered quartz monzonite, medium
			green, beige specks, moderate carbonate alter-
			ation, 2-3% fracture controlled + disseminated
			pyrite, unoxidized, locally pyrite +
			arsenopyrite, crosscut carbonate veinlets,
			Upper fault contact at 35° to core axis,
			114.6-115.6m: Fracture zone, clay along fractures
116.8	119.6	QM	C_2, So, 0.5% Py, Po, B_1
			Weakly, partially altered qz-monzonite, fresh
			biotite, Horizontal(?) slickenslides along fractures,
			0.5% unoxidized fracture controlled pyrite,
			Argillic alteration of feldspar in fractured
			QM to 118.6m, massive, few fractures
			from 118.6-119.6m.
119.6	123.5	AQM	C_1, So, 1% Py, Po, tr Sb, B_2, SK
			Mixed AQM + QM (no ratios given), Phyllic
			feldspar alteration, argillic near veins, Weak
			quart stockwork + sheeted chert veins. 1-2%
			vein controlled unoxidized pyrite, trace pyrite

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: -96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			along chert, trace stibnite
123.5	127.0	AQM	90:10 Q.M.; C_2, So, 1% Py, Po, B_{2-3}
			Mixed AQM + QM, feldspar, biotite altered
			to sericite + chert respectively. Moderate carb-
			onate alteration, 0.5-1% unoxidized pyrite.
127.0	128.9	QM	C_2, S_1, 1% Py, Po, B_{1-2}, SK
			Moderately altered quartz monzonite near
			veinlets (clay alteration), 1% disseminated
			pyrite, some from altered pyroxene biotite.
			Moderate carbonate alteration.
128.9	139.4	QM	80:20 AQM: C_1, So, 0.5% Py, Po, B_1
			Mixed QM + AQM, dark grey, locally pale
			green. Thin chert veinlets, 0.5% very fine
			grained disseminated unoxidized pyrite.
139.4	144.1	AQM	C_2, So, 1% Py, Po, B_{2-3}, tr Aspy
			"Transitional" zone 30-80% of biotite altered,
			10% disseminated chert(?), 1% very fine grained
			disseminated pyrite, trace arsenopyrite.
			Moderate carbonate alteration.
			142.5-144.1: Propylitic alteration overprinted
			by carbonate, phyllic alteration.
144.1	145.7	ARGG	Co, S_1, 5% Py, Po, SK
			Upper contact intrusive at 55° to core axis.
			(Thrust?). Fractured, hard (siliceous?).

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			5%, variable concentrations, of unoxidized fracture controlled pyrite
145.7	159.9	AQM	C2, S1, 1-2% Aspy, 6% Py, Po, B3
			Altered qz-monzonite, moderate carbonate alteration, 10% quartz eyes, cm-scale feldspar phenocrysts, Moderate clay alteration of feldspar, clay along faults + fractures, biotite strongly altered. 6% mostly vein controlled pyrite, unoxidized; 1-2% arsenopyrite, also vein controlled, 10% from 148.0-148.6m. Weak carbonate veining, silicification (?).
			148.5m: Faults at 65°+75° to core axis.
159.9	162.1	ARGC	C0, S1, 2% Py, Po
			Argillite, decalcified, tectonized (healed fractures along fault breccia), graphitic, siliceous (silicified?). Faults along upper contact oppose each other at 75°+70° to core axis. 2 thin AQM units (0.5m, 0.3m) included in this interval.
162.1	164.9	LST	C3, S1, 2% Py, Po
			Black, minor dark grey limestone, fractured to broken core. 1-2% very fine grained disseminated pyrite. Becoming dolomitic from 163.7-164.9m. 163.7m: Bedding at 70° to core axis. variable "S1" listed, no description of silicification

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-91

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
164.9	176.7	LST	C1, So, 3% Py, Po
			Grey-black limestone, locally dolomitized
			3-5% pyrite (diagenetic?), laminae controlled,
			Bedding disrupted.
			164.9-165.8: Grey, dolomitic beds, at 60° to
			core axis at 165.2m, and 65° to
			Core axis at 165.7m
			171.0m: Worm burrows, dolomitic, in black
			dolomite.
			173.5-176.7m: Black, brecciated limestone,
			bedding at 70° to core axis at 174.5m
176.7		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Logged by: F. Andwyn

Page 3 of 22

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			DD 92 hole was surveyed to 76.24m; Geology interpreted from Quicklog & remaining core
0	1.83	CASING	
1.8	12.5	SH	1% LM
			strong clay weathering of fine grained slate;
			fair moderate weathering; LM on fractures & bedding planes
12.5	14.1	SHG	Gr
			- dk brown to black sticky clay gouge zone
			through interval remaining core strongly clay weathered
			- interval already sampled - taken from quicklog by FOA
14.1	20.7	SH	Tr LM
			fair weathering clay alteration less intense; trace
			limonite along fractures & bedding planes
20.7	23.3	SHG	Gr
			very broken clay weathered core, dark grey to dk grey tan overall coloring
23.3	29.2	SH	Tr LM
			very broken clay weathered core; trace LM on
			fractures at 30° to CA.
29.2	50	SHG	Gr
			black to dk grey to brown clay weathered
			bedding 30°-35° CA
50	63.11	SHG	Tr Qv fg
			strong clay altered quartz feldspar porphyry with platy
			breaks of clay weathered core, trace fg disseminated
			black ore.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Sept 4/96

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
63.4	64.7	AGM	Pb. 1% py
			s.f. - pale grey; groundmass sericite clay altered
			biotite ⇒ pale beige clay; py replacing clay
			- 1 cm wide graphitic clay/shale with ~2%
			diagenetic py.
64.7	65.5	AAGM	
			graphitic clay altered shale? breaks across
			bedding, hackly surfaces; Upper contact 50°-TCA
			Lower contact 40°-TCA
65.5	75.2	AGM	7% 5% py, Po
			top 10cm clay + gritty minerals
			- porphyritic; pale grey/green groundmass
			- 3-5% py, replaced biotite; pervasive
			- sl/very clay / 5x?? mineral - remnant biotite
			- 5x brecciated, less grained decreases with depth.
75.2	77.7	AGM	~5x 30% py Po, St
			py remnant hairline black irregular veinlets; clay
			healed fractures; pervasive.
			pervasive brown [illegible]
			[illegible] clay groundmass [illegible]
			[illegible] pervasive
			- basalt completely pervasive/bleached clay
			with py replacing
			groundmass than grey groundmass - decrease in py.
			- silicified intervals (quartz) - mid out of grey/green
			groundmass - related to black stockwork

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DH 96-92

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
87.2	88.5	AGM	1% py, Pl
			fine grained, ~1% py; porphyritic texture
			subdued; pale brown clay after bio+Hb;
			py as grains in groundmass; softer groundmass
			enriched green sericite replacement of 1mm fs minerals.
88.5	92.0	AGM	2% py, Pl
			porphyritic, white clay altered phenos to 1cm size
			2-3% py replaces brown clay (biotite)
			core is fractured & partially healed, clast supported
			gouge, clay matrix filled breccia zone 90.7-90.6
			fractured 70°→C.A.; pervasive carbonate yellow clay veinlets
			- Note after 90.6 groundmass is paler, 5x
			decreased.
			py as fine grains in groundmass, blackening
			Hbls
92.0	98.00	AGM	Bx
			contact 40°-70°C.A.; clay filled matrix hosting
			rounded to angular fractured fragments;
			92.5-90.8 clay matrix with fragments to
			1cm size; shear zone;
93	96.8	AGM	4% py, Pl
			sericite alteration of groundmass, pale grey
			>>> pale green sections; partially clay
			healed fractures pervasive; open spaces/cavities
			in dk grey/fine grey quartz veins brecciated
			by pervasive white clay stockwork ← 93.6 — 95m
			4% py disseminated through groundmass; trace py/cpy?
			no indications of biotite visible present;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Sept 4/96

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
96.8	98.2	ARGG	· FAULT, C1
			graphitic platy breaky argillite,
			brecciated by graphitic clay and pervasive
			brown white clay stockwork ± carbonate present
			- upper contact 55° C.A, wavy, sharp, ABM clasts
			- lower contact 50° → C.A marked by grooved
			clay surface ± LINEATION 30° → C.A (GROOVE ORIENTATION)
			core ~~SO SHOWS SHEAR~~ ± THRUST SURFACE??
98.2	103.7	AQM	10% py → Tr Apy, P, C1, S1
			top 30cm clay matrix supported breccia, lower
			rock porphyritic ± phyllic alteration
			bleached groundmass (fsp); py pseudomorphing
			biotite.
		CHILLED ZONE →	- porphyritic texture less distinct, pale
			green alteration of phenose 98.7-100.6m
			- pale brown yellow clay mixed fracture white clay
			broken stockwork,
			- angular white/grey brecciated fg tan cb fragments
			up to 3cm in size.
			- trace stage removal of clay, angular light
			black stringy clots altered, mineral, 1% secondary bi
			- porphyritic ABM units with strong clay alteration
			along crackle fracturing & shallow angle - TC.A. starting
			at 101.8m

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Sept. 4/96 7:00pm

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
103.7	106.8	AGM	8% py, 1% aspy. Potassic altered, sk, Sz
			-fine grained as at 98.7-100m; clay altered
			biotite replaced by blebby py + ~1% aspy.
			-pale pink hue to groundmass - weak potassic
			alteration; pervasive 3cm halo along
			mm quartz veinlets 10°->C.A.
			-qz veinlets rimmed by mm pale yellow
			clay
			- fine grained texture disappears at 106.75m,
			becomes porphyritic with dk grey (sx)
			wispy stockwork zones; grey chalcedonic
			veinlets at 106.2m.
106.8	112.5	AGM	5% py, 3% as, Pl, Sz, sk
			-white altered phenos, tan groundmass;
			-grey qz replacing 2% phenos (chalcedonic)
			-1% py disseminated through groundmass,
			4% py associated with qz/sx wispy veinlets
			-3% aspy as 1-6mm massive bands ~90°->C.A.
			-pale grey, clay rimmed qz veinlets & clay
			healed fractures, horsetail at shallow angles ->C.A.
			-clay altered, crackle fractured 109-110m, 10°->C.A.
			-py content proportional to amount of
			fracturing, as is clay alteration of
			groundmass
112.5	End of Mineralized Zone 112.1	AHFG	
			-broken upper contact 50°->C.A; white qz-cb
			stockwork continues from AGM into the
			argillite.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: [illegible]

Nov. 9 96

Page 8 of 22

Logged by: E. Arseneau Continuation of Sept. 05

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
112.5	115	AAGG	5% Py, Po, sk
			- upper contact 50° to C.A;
			- qz + cb white stockwork [illegible]
			black, greyish-black [illegible]
			breaking; semi polished graphitic [illegible]
			- 5% disseminated py in matrix;
115	116.8	ARG	15% py, Po, sk, Sl
			- black & heavy; x cutting [illegible]
			qz + clay veinlets form stockwork
			- 15% py or more [illegible]
			aggregates - occasional [illegible] no alteration
			- bedding correlated ~ 55° to C.A;
			↑ intervals looked at after splitting
			& receiving assays;

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LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Nov. 9 1996

Logged by: F. ANDERSEN

Continuation of hole from Sept. 4/96.

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
116.8	120.4	AGM	10% Qz, 1% As, Po
			pale yellowish grey groundmass with clay altered phenos;
			7% py replacement of matrix
			1% py + arsenopyrite as discrete specks
			-grey mottling of core from sulfide (py) content;
			-pervasive crackle fracturing, pale yellow infilling clay
			replaced by grey Qz + py down interval; ~15% sulfide
			at lower contact
120.4	121.9	ARG	2% Py, Po, Sk, S4
			dk greyish black; minor cm-scale pervasive white Qz
			fracture/gash filling + brecciated stockwork;
			2% py within matrix, feel ABS associated w the Sk.
121.9	124	ARGG	C2
			broken, dark greyish black, platy laminated, aguba
			breaking argillite; bedding wavy, ~70°-TC.A.
			-minor white gash filling; strongly graphitic laminae;
			-calcareous matrix, gradual reaction to HCl
124	126.65	ARG	C3 S2, 1% Py, Po
			pervasive <1 to >2 mm sized stockwork;
			-contact with overlying ARGG is ~90°-TC.A;
			greyish black highly calcareous (limey?) matrix;
			-trace py disseminated in matrix;
126.65	130.1	ARGG	SK, C1, Qz
			broken, platy laminated graphitic argillite; becomes
			rubbly down hole;
			-minor white stockwork + fragments; carbonate clay + minor Qz
			occasional silty/limey interbed / clast;
			-lower contact broken core, looks shallow (<30°) TC.A;

a broken core piece by Agat drill crew

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Nov. 9/96.

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
130.1	132	AGM	10% Py, Po
			tan green colour; groundmass fine grained; indistinguishable
			xtal boundaries. ~5% pale brown/tan clay replacement of
			1mm lath shaped mineral; silvery sericite alteration of biot.ta;
			micro-porphyritic texture caused by 10% fine grained pyrite
			cubic + irregular shaped blebs;
			-upper 40cm is broken, highly fractured; remainder
			interval is partially clay healed fractures common but
			not pervasive;
132	135	ARGG	Tr Py, Po
			dk greyish black argillite with graphitic laminae; cb+qz
			stockwork pervasive in top 20cm, common afterwards;
			trace pyrite blebs in stockwork poor argillite; no sulfide
			in stockworked core;
			- 133.0-133.45 core has textures identical to
			following interval;
135	137.2	ARG	70:30 AGM, Sil, ±k, 7% py, Po, Cz
			plagioclase-qz intrusive (AGM) clasts encompassed by
			quartz/cb stockworked weakly qz flooded graphitic
			argillite, in places AGM hosts arg clasts;
			· 7% pyrite as massive grey clay altering lenses;
			· where AGM content high is pervasive clay+cb filled
			fracture and breccia matrix filling;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD86-92

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
137.2	143.7	AQM	2% Py, Pi
			greyish green/tan colour, porphyritic, alternating zones of pale greenish yellow + dull dark green phenocrysts, in places green sericite forms mm rims with pale yellow cores;
			- groundmass distinct brown/tan replacement of laths, cf very sericite alteration of micas
			- 3% blebby, tarnished pyrite replacing mafics in top 40cm + lower 2m;
			- intervals of core broken into, partially pale yellow clay healed mm size fractures;
143.7	146.9	ARGG	1% Py, Sz, Pa
			black, competent graphitic argillite; white qz/minor cb stockwork orig pervasive in top 20cm, occasional through rest of interval; bedding 25°-70° C.A;
			1% Py as wispy to blebby, massive veinlets;
146.9	149	ARG	3% Py, Sz, 30% qz, Po, Cl
			angular fragmented silicified black graphitic argillite and greyish black silty argillite;
			- pervasive hairline carbonate fracture fillings; pervasive mm-cm white qz with cb core veinlets causing heavy stockworking;
		other 146.9m	argillite fragments floating in a pale greyish white matrix. wispy + hard to i.d.
			- 3% py as blebby cubes disseminated through core, more common in blurbier fragments;
		altered 149m	quartz flooded from 149 to 150.5 m; fuzzy bodied texture 10°-70° C.A texture. like chert with hazelless;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Logged by: F. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
149	154.5	AQG	50:50 Q2, 2% Py Po sh Su, C2
			- greyish black stockworked argillite, pervasive grey chalcedonic flooding of argillite matrix; lengths of core are angular silica replaced argillite clasts in a cherty looking matrix supported breccia; core is calcareous except for chert brecciated intervals
			- pyrite present as wavy stringers in brecciated intervals blebs & specks in argillite.
154.5	159.9	QM	C2
			· grey indistinct, plag rich looking groundmass 10%-15% mm sized sericite (flakes → silvery in color), biotite laths → biotite ⇌ going to silvery sericite;
			· porphyritic texture distinct where core is broken along clay altered fractures - phenos are strongly clay altered;
			· strongly calcareous - mineral replacement by sericite & carbonate;
159.9	164.5	AQM	10% Py, Pi, C1
			beige, tan, pale greenish colour, porphyritic; phenos → green sericite, matrix depleted - crystal shape remnant now tan clays;
			· 1% black tarnished py blebs - replacement of minerals in groundmass;
			· tan/pale yellow clay lined fractures pervasive;
			· weakly calcareous groundmass;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96 92

Nov. 9/96.

Logged by: E. Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
164.5	168.6	GM	C_1
			- dk green to black alteration of phenos; biotite ragged,
			replaced by sericite (silvery) and pale brown clay;
			- calcareous groundmass; hairline carbonate fractures;
168.6	172.4	AGM	3% py, P_1, 1% As, C_1
			- porphyritic, greyish green groundmass; hard;
			- 3% pyrite, possibly up to 1% arsenopyrite; pyrite
			often tarnished black
			- pale mm clay veinlets ravaging 1cm bleached
			envelope; veinlets ~ 10° → C.A.;
			- finer, less distinct groundmass, 5% py nearing contact
			with ARGG;
			- calcareous groundmass; pale pink quartz + calcite
			1cm veinlet 50° → C.A.;
172.4	175.7	ARGG	3% py, Po, Sz, Cz, sk
			black graphitic argillite; calcareous matrix,
			pervasive hairline stockworking + mm to 1cm broken white
			qz veinlets; hard, massive;
			- 3% py as disseminated blebs + cubes; also seen as
			gash fillings + minor veining in hairline stockwork;
			- bedding curved + wavy, possibly broad warping;
			- 175.3m mm clast; intense qz brecciation of ARGG HW;
			- lower contact 40° → C.A.;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Logged by: F. Andersen Nov-19/96

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
175.7	183.6	AGM	3% P_y, P_l
			light green colour, non porphyritic; fs grains pale cream coloured, give a false porphyritic appearance;
			- groundmass strongly altered to sericite, easy to scratch
			- 3% pyrite, tarnished, irregular blebs; trace pyrite as thin black dendritic fractures - not throughgoing.
			- occasional hairline to min pale cream clay healed fractures, occur at ~ 90° and ~ 15° to C.A;
			- thin lengths of crackle fractured, re-healed AGM;
183.6	185.5	ARG	sk, S4, C1, 30% Qz, 1% P_y, P_o
			- upper contact 65°->C.A; lower contact broken + sampled.
			- pervasive mm wide quartz stockwork, qz-fe-carb gash filling, hairline carbonate veinlets;
			- 1% pyrite, disseminated cubes, with n stockworking + argillite matrix
			- AGM green clasts common to 184.2 m;
185.5	193.2	AGM.	5% P_y, P_o,
			light green colour, becomes yellowish green downhole;
			- porphyritic phases altered to green sericite as pale yellow clay;
			- 5% blebby pyrite, discrete grains + irregular blebs
			- throughgoing fractures, ~ 70°-75°C.A cause a grey discoloration. hairline sulfidic veinlets;
			- pale yellow healed fracturing common, pervasive zone, causes broken core from 189.6 to 190.6 and 192 to 193.2 m.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Nov. 10/96.

Logged by: F. Anglesea

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
193.2	195.9	ARGG	sk, Sh, 90:10 AGM, 8% Py, Po, Cl
			-rock type was a clayey black argillite; adding disturbed by pervasive (30%) carbonate + quartz stockwork, hairline to cm scales, stockwork predominantly 60°->C.A with various splays off main veinlets;
			-start getting non porphyritic pale green AGM fragments at 196.1m; after 196.1m core is an argillite clast supported qz cb matrix filled breccia;
			- 2% pyrite as discrete grains in matrix, dominantly as aggregate lenses/blebs associated w/ stockwork.
195.9	201.1	ARGG	sk, Sz, Cl, Tr Py, Po
			- broken, graphitic argillite,
			-pervasive crackle fractured, non healed, calcareous surfaces;
			- moderate to pervasive clot qz hairline veinlets
			- broken rounded qz 1-5 mm sized fragments.
			- v. fine grained py within matrix,
			- 30cm AGM at 195.9, upper contact intrusive, steep to C.A,
			Note: 201.1 - 230.4 EOH is turbiditic interlayered grey silt and black mud, laminary bedding + sedimentary structures 80°->C.A;
			- pyrite present as blebs to 5mm size and as discrete grains in matrix - more prominent in grey siltstone;

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Nov. 10/96

Logged by: F Anderson

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
201.1	202.1	ARGG	2% Py, Po
			- upper margin of turbidite / interlayered silt / mud sequence; convoluted layering; 4 cm pyrite patch at 201.6 m, py disseminated in matrix + as 5mm blebs;
202.1	204.5	SST	3% py, Po, Cl
			- 1 cm to 20 cm interbedded, grey sericitic altered siltstone & black muddy siltstone (wispy laminations); varying contents of mud cause various shades of black;
			- 3% bronzy py as blebs and cubes disseminated through unit, 2cm py rich tense at 204.1 m;
			- hairline carbonate fracturing; 1 cm vuggy qz-cb veinlet at 203.5 m, shallow → C-A;
204.5	206.5	ARGG	Si, sk, 3% Py, Po,
			- graphitic silty argillite, qz stockwork pervasive, core highly broken, in places rubbly, prominent fracture / veinlet direction 50°→ C.A; stockwork brecciates argillite for short distances
			3% py disseminated through matrix
206.5	209.6	SST	3% Py, Po, Cl
			- same unit as 202 - 204.5, very broken from pervasive crackle fracturing;
			- py very fine grained; some blebs seen on rock chips.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DD96-92

Nov 10/96.

Logged by: F. ANDERSEN

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
209.6	213.7	SST	10% py, Po
			dk greyish black, mud rich beds predominate;
			wispy grey silty lenses + thin beds;
			10% py as disseminated pervasive grains in matrix,
			mm-cm sized blebs + lenses;
			-mm white cb-qz vein gash fillings;
213.7	224.6	SST	5% Py, Po, sk, Sr
			thicker sequences of grey siltstone and dk greyish black
			muddy siltstone
			-white qz ± cb vening/gash filling - hairline veinlets,
			gashes to 4mm thickness, white qz patch, broken sheeted
			cm qz veinlets, 20°-70° A; stockworking gradually
			decreases downhole;
			-5% py disseminated through unit as lenses + blebs.
			-slickensides seen at 216m & 224 m.
224.6	228.5	SST	5% py, Po
			-predominantly grey siltstone; short sequences of muddy, dark
			beds;
			-pyrite v.f.g through matrix + as gash fillings + blebs;
			hairline white cb-rich healed fractures not common;
			-start seeing hairline black sulfide veinlets at 227.4 m.;
			4mm veinlet with 2mm qz core at 228 m, 70°-70° A
228.5	230.4	SST	Sk, Cl, 5% Py, Po
			-grey pervasive fractured unhealed siltstone
			-white cb ± qz irregular veinlets to 2cm size, encompassing
			small siltstone fragments.
			5% v.f. grained py disseminated through matrix and as
			lithic + muddy layers.

E.O.H.

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-92

Logged by: B. Bock / F. Andersen Sept 1-2, 1996

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
1.83	3.8	0.57	0							
3.83	5.8	0.96		1						
5.8	7.8	1.72		1						
7.8	9.8	1.10		1						
9.8	11.8	1.42		1						
11.8	13.8	2.0		Tr						
13.8	15.8	2.0		Tr						
15.8	17.8	2.0		Tr						
17.8	19.8	2.0		Tr						
19.8	21.8	2.0		Tr						
21.8	23.8	2.0		Tr						
23.8	25.8	2.0		Tr						
25.8	27.8	1.8		Tr						
27.8	29.8	2.0		Tr						
29.8	31.8	2.0		—						
31.8	33.8	2.0								
33.8	35.8	2.0								
35.8	37.8	2.0								
37.8	39.8	2.0								
39.8	41.8	2.0								
41.8	43.8	2.0								
43.8	45.8	2.0								
45.8	47.8	2.0								
47.8	49.8	2.0	↓							
49.8	51.8	2.0	0.18							
51.8	53.8	2.0	0.43	—	Tr	Pl				

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD86-92

Logged by: B. Bark / E. Andersen Sept 1 & 2 1990

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
53.8	55.8	2.0	0		Tr	P_1				
55.8	57.8	2.0	0		Tr	P_1				
57.8	60	2.2	0		Tr	P_1				
60.	61.8	1.56	0		Tr	P_1				
61.8	62.8	1.05	0		Tr	P_1				
62.8	64.7	1.67	0		1	P_1				
64.7	65.5	0.88	0		/					
65.5	67.5	1.91	0.67		7	P_1	Tr*			
67.5	69.5	2.01	0.75		7	P_1	Tr*			
69.5	71.5	1.98	0.57		7	P_1	Tr*			
71.5	73.5	1.97	0.37		7	P_1	Tr*			
73.5	74.5	1.03	0.69		7	P_1	Tr*			
74.5	75.8	1.29	0.14		7	P_1	Tr*			
75.8	77.8	1.97	0		3	P_0				S_1
77.8	78.8	1.02	0		3	P_0				S_1
78.8	80	1.35	0.29		3	P_0				S_1
80	82	1.94	0.14		3	P_0				S_1
82	83.9	1.98	0.61		3	P_0				S_1
83.9	84.9	1.06	0.65		3	P_0				S_1
84.9	86.9	1.99	0.62		3	P_0				S_1
86.9	88.9	1.96	1.28		2	P_1				S_1
88.9	90.9	1.99	0.46		2	P_1				
90.9	92.7	1.93	0.42		2	P_1				
92.7	94.7	1.96	0.18		4	P_1				
94.9	96.8	1.95	0.22		4	P_1	Tr*			
96.8	98.2	1.44	0		0					S_1

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-92

Logged by

From (m)	To (m)	Rec (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
98.2	100.2	1.94	0.43		1	P_1			C_1	S_1
100.2	102.2	2.01	1.01		1	P_1			C_1	S_1
102.2	104.2	1.96	0.47		6	P_1			C_1	S_1
104.2	106.2	1.97	0.26		8	P_1	1		—	S_1
106.2	108.2	2.0	0.96		5	P_1	3			S_2
108.2	109.2	1.0	Ø		5	P_1	3			S_2
109.2	110.4	1.21	0.29		5	P_1	3			S_2
110.4	112.5	2.0	0.58		5	P_1	3			S_2
112.5	114.5	1.84	Ø		5	P_0	—			—
114.5	115.5	0.94	Ø		5	P_0	—			—
115.5	116.8	1.33	0.54		15	P_0	—			S_1
116.8	118.8	1.91	0.72		7	P_0	Tr			—
118.8	120.4	1.68	1.3		13	P_0	2			—
120.4	121.9	1.47	0.25		2	P_0	—			S_4
121.9	123.4	1.44	Ø		Tr	P_0	—		C_2	—
123.4	125.4	1.95	0.76		Tr	P_0	—		C_3	S_3
125.4	126.6	1.25	0.34		Tr	P_0	—		C_3	S_2
126.6	128.6	1.77	Ø		Tr	P_0	—		C_1	—
128.6	130.1	1.25	0.11		—	—	—		C_1	—
130.1	132	1.73	0.35		10	P_0	—		—	—
132	134	1.97	0.27		Tr	P_0	—		—	—
134	136	2.0	0.93		5	P_0	—		C_2	S_4
136	137.2	1.19	0.12		7	P_0	—		C_2	S_1
137.2	139.2	1.93	0.14		1	P_1	—		—	—
139.2	141.1	2.0	0.45		2	P_1	—		—	—
141.1	142.1	1.02	Ø		3	P_1	—		—	—

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DD96-92

Logged by: B Bark / F. Andersen

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
142.1	143.7	1.77	0.25		3	P_1			–	–
143.7	145.1	1.49	0		1	P_0			–	–
145.1	146.9	1.66	0		1	P_0			–	S_2
146.9	148.5	1.58	0.32		3	P_0			C_1	S_3
148.5	150.5	2.12	0		2	P_0			C_2	S_4
150.5	152.5	2.0	0.42		2	P_0			C_1	S_4
152.5	154.5	2.0	1.62		2	P_0			C_2	S_4
154.5	156.5	2.0	0.22		–	–			C_2	–
156.5	158.5	2.0	1.27		–	–			C_2	–
158.5	159.9	1.4	0.82		–	–			C_2	–
159.9	160.7	0.74	0.42		2	P_1			C_1	–
160.7	162.7	2.0	0.85		2	P_1			C_1	–
162.7	164.7	2.0	0.57		2	P_1			C_1	–
164.7	166.7	2.0	0.11		–	–			C_1	–
166.7	168.7	2.0	0.25		–	–			C_1	–
168.7	170.2	1.48	0.19		2	P_1	Tr		C_1	–
170.2	171.3	1.06	0.19		1	P_1	1%		C_1	–
171.3	172.4	1.23	0.15		2	P_1	Tr		C_1	–
172.4	173.7	1.28	0.47		3	P_0	–		C_2	S_2
173.7	175.7	2.0	0		3	P_0	–		C_2	S_2
175.7	177.7	1.97	0.16		3	P_1	–		–	–
177.7	178.7	2.0	1.11		3	P_1	–		–	–
178.7	181.7	2.0	0.5		3	P_1	–		–	–
181.7	183.6	1.81	0.42		3	P_1	–		–	–
183.6	184.[redacted]	0.97	? [redacted] core [redacted]		1	P_0	–		C_1	S_4
184.[redacted]	189.5	1.30	?		1	P_0	–		C_1	S_4

LOKI GOLD CORPORATION

DIAMOND DRILL SAMPLE LOG

HOLE-ID: DDH6-92

Logged by: F. Andersen

From (m)	To (m)	Rec. (m)	RQD [redacted]	Lm (%)	Py (%)	Py Oxidation	Aspy (%)	Sb (%)	$CaCO_3$	Silica Influx
186.5	187.5	1.91	Ø		5	Po			–	–
187.5	189.6	2.0	0.68		5	Po			–	–
189.5	191.5	2.0	0		5	Po			–	–
191.5	193.2	1.93	0.21		5	Po			–	–
193.2	194.2	0.94	0.11		2	Po			C_1	S_3
194.2	195.9	1.61	0.96		2	Po			C_1	S_4
195.9	197.9	1.96	0		Tr	Po			C_1	S_2
197.9	199.9	1.89	0		Tr	Po			C_1	S_2
199.9	201.1	0.94	0		Tr	Po			C_1	S_2
201.1	202.1	1.0	0		2	Po			–	–
202.1	203.6	1.42	0.73		3	Po			C_1	–
203.6	205.6	2.0	0.2		3	Po			–	S_1
205.6	207.0	1.86	0		3	Po			–	S_1
207.6	209.6	1.95	0		3	Po			C_1	–
209.6	211.2	1.61	0.59		10	Po			–	–
211.2	212.2	1.0	0.8		10	Po			–	–
212.2	213.9	1.71	0.43		10	Po			–	–
213.9	216	1.19	Ø		5	Po			C_1	–
216	217	2.0	0.45		5	Po			C_1	S_2
217	219	2.0	0.27		5	Po			C_1	S_2
219	221	2.0	0.45		5	Po			C_1	S_1
221	223	1.96	0.33		7	Po			–	S_1
223	225	1.94	0.15		7	Po			–	S_1
225	227	1.95	0.58		5	Po			–	–
227	229	1.78	Ø		5	Po			C_1	–
229	230.4	1.45	0.59		6	Po			C	–

PROJECT: Brewery Creek | CO. / PROVINCE: | HOLE NO.: DDH-96-92 | PAGE 2 OF 3

CONTRACTOR: | DATE COMPLETED: | BEARING: | INCLINATION: | TD

DATE STARTED: | SCALE: | COORDINATES: N/S | E/W | UTM

LOGGED BY: | | ELEVATION: | NTS: | UTM

CLAIM NAME, NO.:

CORE RECOVERY	ROCK UNIT	FRACTURE DENSITY	ALTERATION	MINERALIZATION	MINERAL ESTIMATE Py	As	Sb	ASSAYS Oxidation	REMARKS
155									
160	159.9 AQH (check to confirm ... any pink for B2)		159.9 biot altered (sauss.?)						
	QM		164.6 biot not alt.						
170	AQH (= B2 QM?)		168.7 biot altered (sauss.?) 171.3 K-spar unit?						
	172.4 ARGG 173.3–175.7 pieces of AQH contacts mineralized + fault at top		175.3–175.7 bt all → biot AQH 177.7 bt not alt. remain contacts fitted	where's alt. shown back up?					
180	178.8 AQH								
	183.6 advising contact								
190	185 AQH (Py) QM								
	193.2 ARGG 197 ... 30cm of AQH ... ARGG			- stkwk + silic.; little CO_3					
200	201.5 ... simpson ... SST		check to see if this is dolomite (put a piece on the heater, let it get hot then try HCl)	207.6 v.f.g diss Py in SST 203.6					
210									
220	weakly calcareous								
	227.9			- CO_3 in 1-10 mm stkwk					
230									
235									

PROJECT: Brewery Creek
CONTRACTOR:
CORE SIZE:
LOGGED BY: Leslie

CO. / PROVINCE:
DATE COMPLETED:
SCALE: 1:500

HOLE NO.: DDH-96-92
BEARING:
COORDINATES: N/S
ELEVATION:
CLAIM NAME, NO.:
INCLINATION:
E/W
NTS:

PAGE 2 OF 3
TO 230.3
UTM:
UTM:

ROCK UNIT	FRACT. FREQ.	ALTERATION	MINERALIZATION	MINERAL ESTIMATE	ASSAYS	REMARKS

75
80
90
100
110
120
130
140
150

(lt grey + dk grey thin bedded)

lt + dk Tuff thin bedded chert or silicified

☆ Silica - flooded box-es by stkwk (SA)

bdg 10-12° to CA

Qtz-carbonate tuff breccia.

PROJECT: Brewery Creek - Deep Sulphide
CONTRACTOR:
DRILL STARTED:
LOGGED BY:

CO. / PROVINCE: QNC
DATE COMPLETED: Log of 140-230m
SCALE: 1:500

HOLE NO.: DDH-96-92
BEARING:
COORDINATES:
ELEVATION:
CLAIM NAME, NO.:

INCLINATION: -55° N/S E/W
NTS:

TD 230,3m (756')
UTM:
UTM:

CORE RECOVERY	ROCK UNIT	FRACTURE FREQUENCY	ALTERATION	MINERALIZATION	MINERAL ESTIMATE % Py	% As	% Sb	ASSAYS Oxidation	REMARKS
					Py	As	Sb		

0
10
20
30
40
50
60
70
75

56' Casing

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-93

Logged by: L. Lindefeld, adapted by C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
0	1.5	Casing	
1.5	11.9	SHG	C, Si, 0.5% Py, Py, 5% Lim
			Graphitic shale, light-dark grey fissile
			mod. limonitic, pervasive. Minor deformed
			diagenetic ± metamorphic (?) quartz veins
			0.5% strongly to completely oxidized pyrite
			6.2m: Linear feature (?) at 45° to core axis
			9.5-10.6: black-grey clay
			10.6-11.9: Shale, less graphitic
11.9	14.0	IAQM	C, Si, 0.5% Py, Py, 2% Lim
			Weakly limonitic altered quartz monzonite,
			pervasively altered, tan-orange. Weak carbonate
			alteration. 0.5% almost completely oxidized
			pyrite. ~~Weak carbonate alteration~~
14.0	22.8	ARG	C, Si, 0.5% Py, Py, 1% Lim, SK
			Black argillite, weathered, no siltstone
			component. Weak diagenetic and fracture
			controlled chert, quartz and/or dolomite
			veins. Moderately oxidized + limonitic to
			18.6m, fractures locally oxidized below this. Minor
			siliceous beds from 21.0-22.8m. 0.5% fully
			oxidized very fine pyrite, somewhat coarser
			in oxidized beds. Weak carbonate presence
			15.4-16.5m: Strong clay altered, brecciated
			19.5-21.8m: Fracture zone, partially broken.
			18.8m: Cleavage (?) at 45° to core axis

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-93

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
22.8	25.8	ARGG	$C_1, S_1, 1^{\%}Py, P_2?, 1^{\%}Lim.$
			Black graphitic argillite, dark grey-black silty interbeds, locally isoclinally folded Grey layers limonitic to dolomitic, locally 5-10% chert. 1% moderately oxidized pyrite, weakly limonitic, fracture controlled.
25.8	29.6	AOM	$C_1, S_2, 2^{\%}Py, P_1, 1^{\%}Aspy, 2^{\%}Lim, B_3$
			Beige to cream coloured altered quartz monzonite, weak fracture controlled limonite, weak carbonate alteration, biotite strongly altered. 2-3% disseminated pyrite + arsenopyrite, weakly oxidized, fine grained; also in fine fracture system with carbonate - kaolinite veinlets. Lower contact faulted, at 55° to core axis.
29.6	35.7	ARGG	$C_1, S_1, 3^{\%}Py, Po, SK$
			Black, graphitic, fractured, locally gouged, deformed, bedding destroyed. Grey beds dolomitized. Sheeted quartz + dolomite (?) veins - diagenetic + weak chert stockwork of veinlets. Weak carbonate presence, silicification (both stockwork + pervasive?). 1-5% fine grained to nodular unoxidized pyrite.
			32.0m: Slip plane at 55° to core axis
			34.4-35.7m: Intensely deformed, fractured, particularly along lower intrusive contact.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: RC-96-93

Logged by: L. Landtfeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
35.7	47.2	AQM	C1, S1-2, 2-7% Py, Po-t, tr Lim, B3
			Strongly altered quartz monzonite, grey-green. Espar argillically + phyllitically altered, biotite altered to sericite, rutile, carbonate. Weak-moderate carbonate alteration. Fracture controlled carbonate stringers cut by quartz-pyrite veins.
			35.7-37.4m: 7-10% fine grained, disseminated pyrite, unoxidized, + lesser fracture controlled weakly oxidized pyrite. 1% arsenopyrite
			37.4-39.7m: Pyrite-quartz veinlets
			39.7-43.8m 1-2% unoxidized pyrite
			43.8-44.2m Healed fault breccia, 1% pyrite
			44.2-44.9m carbonate veinlets tr arsenopyrite + sphalerite
			44.9-45.6 m: 10% pyrite, kaolinite unit
			45.6-47.2m: 3% pyrite
47.2	47.9m	ARGL	C1, S1, tr Py, Po, tr Lim
			Black graphitic argillite, grey AQM + sand fragments.
47.9	57.2m	AQM	C1, So, 1-4% Py, Po, tr Lim, B3
			Strongly altered quartz monzonite, feldspar, biotite strongly altered. Weak carbonate alteration. Variable concentrations (1-3%) of fracture controlled + lesser disseminated pyrite, unoxidized

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-9

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			51.7-52.7: Broken, fractured, injection of carbonate veinlets
			55.9-57.2: 4% disseminated pyrite, unoxidized, phenocrysts more distinct.
57.2	60.8	ARGL	C, S, 5% Py, Po
			Graphitic argillite, dolomitic layers, "tectonized". Minor AQM fragments, weakly silicified, weak carbonate presence, dolomite veinlets, 5% disseminated + fracture controlled unoxidized pyrite, present in black silty to sandy dolomite. Up to 50% in sedimentary fragments. Upper intrusive contact at 80° to core axis
			58.1m: "Slip" plane at 70° to core axis
60.8	77.6	AQM	60.8-66.8m: C, S, 5% Py, Po, tr Aspy, tr Sb
			66.8-77.6m: C, S, 1.5% Py, Po, 0.5% Aspy, 1% Sb
			Intensely altered quartz monzonite, weak carbonate alteration of feldspar. 3-10%, variable concentrations, of unoxidized fracture controlled + disseminated pyrite, 1% arsenopyrite to 64.5m, trace to 77.6m, except 1% from 71.5-72.8m. Trace stibnite, except 2-3%, veinlet controlled, with clay.
			3 stockwork episodes: 1: Carbonate veins, 2: Pyrite veins (+quartz?), 3: clay-stibnite veins.
			61.6-62.8m: Broken core, clay + sulphide veinlets.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH 96-93

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			71.7-72.8m: Broken, kaolinitic, clay-stibnite veins, 2-3% stibnite, 1% arsenopyrite
77.6	86.8	ARGG	C1, Si1, 5% Py, Po, SK
			Graphitic argillite, locally siliceous (silicified), dolomitic + limey. Upper intrusive contact at 80° to core axis. Weak silica stockworks. 5% fine grained unoxidized pyrite, largely diagenetic or metamorphic disseminated + as replacement of rims of clasts in siltstone to sandstone. Weak carbonate presence (limey layers?).
			77.6-77.9m: Chert pebble conglomerate + ARGG
			77.9-78.6m: AQM dykes
			80.3m bedding at 15° to core axis
			81.8-82.0m: Fracture zone, locally siliceous
			86.0 m: dolomitic + limey siltstone, sandstone clasts
86.8		EOH	END OF HOLE

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-94

Logged by: L. Landefeld, adapted by C. Schulze

From (m)	To (m)	Major Unit	Geological Description (Include modifiers on first line of descriptions)
0	1.8	CASING	
1.8	18.6	ARG	Co, So-1, 3% Py, P4, 3% Lim
			Argillite, black-grey, regular fabric, bedding parallel to foliation. Bedding more compact below 13.0m, grading into graphitic argillite. Bedding offset by fractures - normal movement. Deformation, folding, fracturing more intense from 9.0-11.0m. Metamorphic quartz veins 3-5% almost totally oxidized pyrite, diagenetic, bedding controlled.
			Bedding at 40-45° to core axis at 6.0m
			" " 50° " " " 8.2m
			" " 30° " " " 16.3m
18.6	23.1	ARM	Co, S1, 3% Py, P3, 3% Lim, B3
			Deformed, bedding, foliation parallel to core axis. 3% strongly moderately oxidized pyrite, almost completely oxidized along contact.
23.1	26.6	LARM	C1, S1, 3% Py, P3, 3% Lim, B3
			strongly altered, moderately limonitic quartz monzonite, carbonate + sericitic alteration of feldspar, biotite altered to rutile(?) + sericite. Sedimentary xenoliths common. Clay, fracture controlled veinlets crosscut by q2-pyrite veinlets. 3% disseminated + fracture controlled strongly oxidized pyrite to 24.5m, 1% from 24.5 - 26.6m.

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH-96-94

Logged by: L. Landefeld, adapted by C. Scholze

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
26.6	65.0	AQM	26.6 - 41.4m: C1, S1-2, 4% Py, P1, 1% Aspy, 1% Sb, 1% Lim, SK
			41.4 - 65.0 m: Co, S1-2, 6% Py, Po, 1% Aspy, tr Sb, 0.5% Lim, SK
			Altered qz-monzonite, locally fractured, clay (argillic alteration) along fracture planes, weak - moderate silicification, probably as quartz stockwork, weak carbonate alteration, Variable pyrite concentration to 41.4m, 2-7% averaging 4%, vein controlled with quartz, stibnite, arsenopyrite, + clay minerals. Weakly - mod oxidized pyrite along fractures, unoxidized otherwise. Most pyritic from 29.4-30.9m, 33.7-35.3m, and 37.4-38.2m.
			29.0 - 29.3m: Argillite, Faulted?, at 70° to core axis
			37.3m: Argillite along shear, at 70° to core axis
			- From 41.4 - 65.0m, little carbonate alteration, weak - moderate quartz - carbonate stockwork with pyrite, stibnite (minor) and arsenopyrite. More even, unoxidized - weakly oxidized pyrite concentration, vein controlled with lesser disseminated material, averaging 6%, with 1% arsenopyrite and trace stibnite. Strongest pyrite concentration from 47.7 - 49.0m, 53.0 - 55.0, and 57.6 - 58.9m.
65.0	68.7	LST	C1, S1, 4% Py, Po, SK
			Limestone, black - dark grey, 70% dolomitized, weak quartz, weak - moderate chert (?) stockwork (silica) + 10% dolomite veins, 3-5% very fine grained disseminated + lesser fracture controlled unoxidized

LOKI GOLD CORPORATION

LITHOLOGY LOG

HOLE-ID: DDH - 96 - 94

Logged by: L. Landefeld

From (m)	To (m)	Major Unit	Geological Description (include modifiers on first line of descriptions)
			pyrite. Upper and lower intrusive contacts both at 45°
			65.6-66.7m: Fractured, broken + silicified zone
68.7	71.5	AQM	C, S, 8% Py, Po, SK
			Similar to AQM from 26.6-65.0m. Weak carbonate, silica stockwork, latter pyritic and superimposes, but roughly parallels carbonate veinlets. 5-8% unoxidized fracture + vein controlled pyrite. From 69.2-71.5m, 15% from 68.7-69.2m. Lower intrusive contact at 45° to core axis.
71.5	84.1	CH	Co, S, 1% Py, Po
			Chert, black, massive to deformed, possibly silicified, locally limey, dolomitic, silty. Bedding locally strongly fractured, quartz infilling.
			77.5-79.2m: Broken core - fracture zone
			81.5-81.9m - Fracture zone
			81.9-84.1m - increased deformation
			72.5m Slip planes, graphitic, at 45° to core axis.
			76.1m Bedding at 45° to core axis
			81.0m Silty bedding at 45° to core axis.
84.1		EOH	END OF HOLE

HOLE NO: DD96-102	SECTION:	GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE:
LOCATION : PACIFIC
HOLE TYPE : DD

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 96 Final depth: 96.00
Purpose of hole: EXPLORATION
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: DIP TEST

Depth	Azimuth	Inclination
0.00	0.00	-65.00

*** SUMMARY LOG ***

0.00	1.80	COLLUVIUM
1.80	4.40	SANDSTONE
4.40	8.50	CHERT PEBBLE CONGLOMERATE
8.50	12.10	SANDSTONE
12.10	24.60	CHERT PEBBLE CONGLOMERATE
24.60	27.60	SANDSTONE
27.60	30.60	CHERT PEBBLE CONGLOMERATE
30.60	33.60	SANDSTONE
33.60	37.60	CHERT PEBBLE CONGLOMERATE
37.60	40.60	SANDSTONE
40.60	65.30	SANDSTONE
65.30	71.00	SANDSTONE
71.00	73.60	CHERT PEBBLE CONGLOMERATE
73.60	75.10	GREYWACKE
75.10	76.90	CHERT PEBBLE CONGLOMERATE
76.90	78.10	ALTERED QUARTZ MONZONITE
78.10	79.00	CHERT PEBBLE CONGLOMERATE
79.00	80.10	GREYWACKE
80.10	80.80	FAULT
80.80	83.10	ALTERED QUARTZ MONZONITE
83.10	83.80	GRAPHITIC ARGILLITE

Checked and signed: _____ Date: _____

HOLE NO: DD96-102	SECTION:	GRID:MINE

83.80	89.50	ALTERED QUARTZ MONZONITE
89.50	96.00	GRAPHITIC ARGILLITE
96.00		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.80	Colluvium CASING
1.80	4.40	Sandstone C0,S0,P4,tr. Lm Medium to dark Grey very fine sandstone. 20% black sand grains. 20-50% weathering.~2-3 quartz stockworking veins per 10cm.
4.40	8.50	Chert Pebble Conglomerate C0,S1 Dominantly grey,black and white clast-supported conglomerate. 10% black chert, 10% pale green meta-tuff? and 5-10% rounded white pebbles; rest grey. <5cm pieces. 1mm quartzite unit that cuts clasts.
8.50	12.10	Sandstone C0,S1,P2-P3 Dominantly grey, black, white clast-supported conglomerate. 10% black chert, 10% pale green metatuff?, 5-10% rounded white white pebbles; rest = grey. >80% weathered crumbs, <5cm pieces. 1mm quartzite unit; unit cuts clasts.
12.10	24.60	Chert Pebble Conglomerate C0,S1,P0,tr py CPC:contact looks like a channel cut; variably graded locally reverse (debris flow). Chert Pebble Conglomerate grades downward into Greywacke. No alteration seen, sporadic quartz veinlets.
24.60	27.60	Sandstone C0,S1,P0,0.5%py Dark grey Sandstone, thinly bedded, fines downwards, cross-beds concave upwards 5cm thick. Pyrite in quartz veinlets.
27.60	30.60	Chert Pebble Conglomerate C0,S1,PO,0.5%py Clast supported Chert Pebble Conglomerate that grades downwards to greywacke. 2-10mm clasts.2-4 quartz stockwork veinlets per 10cm.
30.60	33.60	Sandstone C0,S0 Dark-medium. Grey. Very fine Sandstone units that is massive to thinly bedded. Good scours grading tops down.
33.60	37.60	Chert Pebble Conglomerate C0,S1,1%Sb Clast-supported Chert Pebble Conglomerate. 0.5cm clasts. Grades into very coarse Sandstone. Up to 2% Sb 36.3-37.2m.
37.60	40.60	Sandstone Dark grey, massive, coarse Sandstone. Fault tectonite 10cm thick 39.7m. Trace Sb 39-40m.
40.60	65.30	Sandstone 50:30:20SLT;ARG-C1,P0,4%py Very fine grained to fine grained Sandstone. Thinly bedded, mostly 1-5mm wome mssv bedding 1-5cm thick. 20cm very coarse sand at 43.7. Very fine grained pyrite. No weathering to EOH.
65.30	71.00	Sandstone 50:30:20SLT;ARG-C0,S3,P0,4%Py1%Sb Same as 40.6-65.3. Zone of hyrdraulic faulting with rounded to angular frags; some x-cut beds. ~50% grey silica matrix at 68.7-71.0.
71.00	73.60	Chert Pebble Conglomerate C0,S1,P0,tr Py Chert Pebble Conglomerate grades into Greywacke.
73.60	75.10	Greywacke C1,S2,P0,tr Py Greywacke. Some carbonate alteration in matrix (dolomitic?) Local silicification
75.10	76.90	Chert Pebble Conglomerate C0,S2,P0,tr Py Chert Pebble Conglomerate. Slip plane contact at 75.1m. Silicified 10-30%, especially where grey. A little weathering but no limonite.
76.90	78.10	Altered Quartz Monzonite C2,S0,P0,3% Py,tr As Mustard beige color, grey with sulphide and pink with hematite. Feldspar=mustard yellow sericite. Fine grained euhedral,disseminated mineralization.

From	To	Geological Log
78.10	79.00	Chert Pebble Conglomerate C0,S1,P0,0.5%Py Chert Pebble Conglomerate grades in dark grey Greywacke. SS; weak dolomitic alt'n.
79.00	80.10	Greywacke C0,S2,P0,0.5%Py Dark grey GW; silicified weakly and altered weakly.
80.10	80.80	Fault C0,S0,P0,0.5% Py Fault Breccia: Chert Pebble Conglomerate,Greywacke,Sandstone in Graphitic Argillite matrix.
80.80	83.10	Altered Quartz Monzonite C2,S0,P0,4% Py Altered Quartz Monzonite as above. 10cm Graphitic Argillite in fault contact at 82.6m. Locally more pink from hematite. Late dry clay or sericitic veinlets cross-cut all at 15 degrees.
83.10	83.80	Graphitic Argillite C0,S0,P0,3% Py Graphitic Argillite, tectonite (fault breccia)
83.80	89.50	Altered Quartz Monzonite C2,S1,P0,2% Py Altered Quartz Monzonite as above. Cohesive Graphitic Argillite fault tectonite at 88.3-88.5m. Feldspars are yellow ser. Or clay. Localize hematite alteration.
89.50	96.00	Graphitic Argillite C1,S1,P0,0.5% Py Graphitic Argillite tectonite remanents of folds, as defined by folded units (slip planes=60) Micro units within axial plane.

*** END OF HOLE *** 96.00

HOLE NO: DD96-103 SECTION: GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE:
LOCATION : SOUTH CANADIAN
HOLE TYPE : DD

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 30.8 Final depth: 30.80
Purpose of hole: EXPLORATION
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: DIP TEST

Depth	Azimuth	Inclination
0.00	0.00	-60.00

*** SUMMARY LOG ***

0.00	1.80	COLLUVIUM
1.80	30.80	SANDSTONE
30.80		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	1.80	Colluvium CASING
1.80	30.80	Sandstone 50:30:20SLT;SS-C0,S0,P2-4,tr.Py,tr.Lm Mostly dark grey very fine Sandstone interbedded with silt and clay (locally black). Beds are mostly Sandstone-SLT/SH, couplets [SS base, are mostly Siltstone (Earn Group) and/or Shale top]; most couplets are 3-10mm thick; locally there are beds of coarse to very coarse sand, or massive (unlaminated) beds of very fine to fine sand, 5-10cm thick. No folds seen. Tops of beds mostly appear to be uphole, but not much confidence in the way some core laid in the box.

*** END OF HOLE *** 30.80

HOLE NO: DD96-104 SECTION: GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE :
LOCATION : BLUE
HOLE TYPE : DD

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 86.5 Final depth: 86.50
Purpose of hole: EXPLORATION
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: DIP TEST

Depth	Azimuth	Inclination
0.00	0.00	-65.00

*** SUMMARY LOG ***

0.00	1.50	COLLUVIUM
1.50	7.90	CHERT PEBBLE CONGLOMERATE
7.90	18.50	ARGILLITE
18.50	27.60	SILTSTONE (EARN GROUP)
27.60	28.60	SANDSTONE
28.60	39.50	SILTSTONE (EARN GROUP)
39.50	45.70	SANDSTONE
45.70	47.60	SILTSTONE (EARN GROUP)
47.60	55.00	SANDSTONE
55.00	58.00	SILTSTONE (EARN GROUP)
58.00	60.40	GRAPHITIC ARGILLITE
60.40	69.40	ALTERED QUARTZ MONZONITE
69.40	72.90	GRAPHITIC ARGILLITE
72.90	78.10	SILTSTONE (EARN GROUP)
78.10	79.10	ALTERED QUARTZ MONZONITE
79.10	86.50	SILTSTONE (EARN GROUP)
86.50		END OF HOLE

Checked and signed _____ Date: _____

From	To	Geological Log
0.00	1.50	Colluvium Casing
1.50	7.90	Chert Pebble Conglomerate C0,S1,P3-P4 CPC: mottled, mostly medium to light grey; clast supported conglomerate; interbedded with greywacke, coarse SS; 1 clast >7cm. Greywacke matrix 10cm brown clay-filled Fault. About 50% weathering throughout interval.
7.90	18.50	Argillite C1,S0,P4,0.5% Py, 1% Lm ARG: Black and grey in 2-10cm beds; grey may be silty but has no grit. Orange/brown and grey clay after Argillite and local limonite. Weathered black with dark brown clay and rock not intact at 12.5m-17.3m. Can't tell bedding tops 17.3-18.5m. Pyrite in Argillite is mostly in bedding planes and fx's. 100% weathering throughout interval.
18.50	27.60	Siltstone (Earn Group) 50:50 Sandstone, C1,S0,P4, tr. Py, 2% Lm Siltstone (Earn Group) with approx. 50% very fine grained sand, 0.5-5cm beds; fines downhole. Most core broken from 23.2-27.6m, most pieces <1-2cm.
27.60	28.60	Sandstone C1,S0 Grey massive sandstone with no bedding 50-80% weathering throughout interval.
28.60	39.50	Siltstone (Earn Group) 50:30:20ARG;SS-C1,S0,P4,tr. Lm Mostly thinnly bedded Siltstone (Earn Group), Argillite, and very fine grained Sandstone with 10-20cm massive medium to fine Sandstone. Mostly broken from 29.8-39.5m. 50-80% weathering throughout interval.
39.50	45.70	Sandstone 50:30:20SLT;ARG-C1,S0 Sandstone dominated, massive, dark-moderate grey, 5-10cm of cm beds with no apparent fining; interbedded with silt, clay beds (~30%, more thinly bedded). Sandstone becomes more thinnly bedded towards end of interval. More calcite veining & stockwork & hydraulic breccia (up to 10% of the rock) confined to Sandstone beds at 40.2-45.7m. Mostly weathered on fracture controlled. 41.5m bottom of all oxidation.
45.70	47.60	Siltstone (Earn Group) 60:30:10ARG;SS-C1,S0 Dark grey to black Siltstone (Earn Group), Argillite > Sandstone. Calcite and quartz decreases towards end of interval. Calcite is cream-orange colored but no rusty weathering.
47.60	55.00	Sandstone 80:10:10SLT;ARG-C1,S1,P0,0.5% Py Argillite is rich black clay broken but not faulted. 49.1-50.3m redrilled core. Increased deformation at 52m; Graphitic Argillite on 70 degree slip zone. Pyrite is very fine grained and disseminated. Quartz and calcite veinlets increase throughout the interval.
55.00	58.00	Siltstone (Earn Group) 40:30:30SS;ARG-C1,S0,P0,0.5% Py Siltstone (Earn Group) thinnly bedded, black to dark grey; beds=couplets 2-10mm thick; bedding transposed commonly, subparallel to So. Increased deformation 56.9-58m.
58.00	60.40	Graphitic Argillite C1,S1,P0,0.5% Py, tr Sphal. Graphitic Argillite-Qz veining-Calcite tectonite; veins folded, dismembered; sphalerite in quartz vein frags.
60.40	69.40	Altered Quartz Monzonite C2,S1,P0,1% Py AQM: Beige with white feldspar with grey. Very fine grained disseminated pyrite, especially concentrated in halos of quartz microveinlets; very fine grained hematite dusts. Green micas in center of feldspars. Large feldspar gone to sericite and white clay and sericite. Pyrite is after biotite in veinlets. Sed Xenos 0.5-3cm and 3% of rock.
69.40	72.90	Graphitic Argillite C0,S0,P0,tr Py Faulted contact at 69.4 between Altered Quartz Monzonite and Graphitic Argillite. ARGG: matrix tectonite with frags of Sandstone similar to but not as deformed as 58-60.4m; dominant slip=70 and 50 degrees. At 72m 20cm of Chert Pebble Conglomerate with stylolitic cleavage at 55 degrees.

From	To	Geological Log
72.90	78.10	Siltstone (Earn Group) 40:40:20SS;ARG-C1,S1,P0,tr. Py Similar to succession above. Beds 1mm-1cm. Sandstone beds more massive 20-30cm. Faulted contact at 78.1m. Very fine grained pyrite which increases to 1% at end of interval in the tectonite at 77.4-77.7m
78.10	79.10	Altered Quartz Monzonite C2,S0,P0,2% Py Beige to pink as above. Flow orientation of biotite and sed xenos 90-85 degrees. Very fine grained euhedral and anhedral 1mm clots pyrite in halos of micro calcite veinlets.
79.10	86.50	Siltstone (Earn Group) 40:40:20SS;ARG-C1,S0,P0,tr. Py Beds </= 1cm. No mineralization to note. Below 82.3, axial traces are rotated relative to each other. Graphitic Argillite matrix tectonite at 82.8m. Folds are visible in Sandstone dominated beds; smeared out and transposed in Graphitic Argillite, Siltstone (Earn Group).

*** END OF HOLE *** 86.50

HOLE NO: DD96-105 SECTION: GRID:MINE

PROJECT CODE :BREWERY CREEK
TENEMENT :
PROSPECT :
GRID :MINE
MAP REFERENCE:
LOCATION :WEST BIG ROCK
HOLE TYPE :DDH

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 141.1 Final depth: 141.10
Purpose of hole: EXPLORATION
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation:
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method:

Depth	Azimuth	Inclination
0.00	0.00	-60.00

*** SUMMARY LOG ***

0.00	1.50	COLLUVIUM
1.50	3.50	ARGILLITE
3.50	4.70	LIMONITIC ALTERED QUARTZ MONZONITE
4.70	5.40	ARGILLITE
5.40	14.00	LIMONITIC ALTERED QUARTZ MONZONITE
14.00	17.10	ARGILLITE
17.10	20.10	COLLUVIUM
20.10	27.90	ARGILLITE
27.90	28.30	LIMONITIC ALTERED QUARTZ MONZONITE
28.30	28.90	QUARTZ MONZONITE
28.90	29.40	LIMONITIC ALTERED QUARTZ MONZONITE
29.40	33.00	ARGILLITE
33.00	42.40	SILTSTONE (EARN GROUP)
42.40	43.90	LIMONITIC ALTERED QUARTZ MONZONITE
43.90	44.80	LIMONITIC QUARTZ MONZONITE
44.80	48.20	SILTSTONE (EARN GROUP)
48.20	53.40	LIMONITIC QUARTZ MONZONITE
53.40	55.30	SILTSTONE (EARN GROUP)
55.30	57.60	LIMONITIC ALTERED QUARTZ MONZONITE

Checked and signed:_____ Date:_____

HOLE NO: DD96-105 SECTION: GRID:MINE

57.60	64.90	ARGILLITE
64.90	75.50	LIMONITIC ALTERED QUARTZ MONZONITE
75.50	77.00	GRAPHITIC ARGILLITE
77.00	79.00	LIMESTONE
79.00	80.60	GRAPHITIC ARGILLITE
80.60	82.00	LIMONITIC QUARTZ MONZONITE
82.00	83.60	LIMONITIC ALTERED QUARTZ MONZONITE
83.60	85.40	QUARTZ MONZONITE
85.40	96.60	LIMONITIC ALTERED QUARTZ MONZONITE
96.60	100.60	LIMONITIC ALTERED QUARTZ MONZONITE
100.60	103.80	GRAPHITIC ARGILLITE
103.80	105.50	LIMONITIC ALTERED QUARTZ MONZONITE
105.50	113.40	ALTERED QUARTZ MONZONITE
113.40	121.90	ALTERED QUARTZ MONZONITE
121.90	123.70	ALTERED QUARTZ MONZONITE
123.70	128.60	ALTERED QUARTZ MONZONITE
128.60	134.40	ALTERED QUARTZ MONZONITE
134.40	141.10	GRAPHITIC ARGILLITE
141.10		END OF HOLE

Checked and signed:_____ Date:_____

From	To	Geological Log
0.00	1.50	Colluvium
1.50	3.50	Argillite C0,S0,P4,tr. Lm Black and limonite rich clay, regolith after Argillite tectonite; crumbs. Faulted lower contact.
3.50	4.70	Limonitic Altered Quartz Monzonite C2,S0,P4,0.5% Lm Limonitic Altered Quartz Monzonite with frags of Argillite tectonite.
4.70	5.40	Argillite C0,S0,P4,tr. Lm Tectonite at 5.0m. Faulted lower and upper contact. Lower contact has frags of intrusive contact in tectonite.
5.40	14.00	Limonitic Altered Quartz Monzonite C2,S0,P3,0.5% Py,0.5% Lm LAQM: appears to be typical seric.-Carbonate (Fe,Ca,Na) altered Quartz Monzonite. Fault at 10.5m Feldspar completely altered; C03 weathers out of phenocrysts to 10.5m, and after 10.5m more orange-rusty Lx. Most pyrite occurs in 0.5mm veinlets or disseminated.
14.00	17.10	Argillite C0,S0 Light and dark grey clay. Brown and black silty Argillite, mostly crumbly. 15.8-16.3m grey clay saprolite.
17.10	20.10	Colluvium NO SAMPLE TAKEN,STUCK IN ROD.
20.10	27.90	Argillite C0,S1,P4 Brown and black weathered ARG; mixed tectonite and argillite tectonite. Locally grey clay saprolite st 24.2m and 25.8m. Local 10cm siliceous black rock.
27.90	28.30	Limonitic Altered Quartz Monzonite C2,S0,P4,tr. Lm LAQM: upper intrusive contact. Slip plane at lower contact.
28.30	28.90	Quartz Monzonite 60:40ARG, tr. Py, tr. Lm Quartz Monzonite
28.90	29.40	Limonitic Altered Quartz Monzonite C2,S0,P4,tr.Lm LAQM: lower intrusive contact.80% weathered.
29.40	33.00	Argillite C0,S1,P4,tr. Lm ARG: siliceous or hornfelsed. Grey saprolitic at 31.5m. Bed folded within hornfelsed Argillite. 31.5-33m mostly crumbs (Graphitic Argillite tectonite). Metamorphic quartz and dolomite veinlets to 31.5m.
33.00	42.40	Siltstone (Earn Group) 70:30ARG-C1,S0,P4,tr. Lm Black (weathered to dark brown) Siltstone (Earn Group). 10% grey clay beds 3-10mm thick. 35.4 to bottom of interval has more silt; 50:50 grey clay and black silt 35.4-36m. 38.4-40.1m deformed weakly.
42.40	43.90	Limonitic Altered Quartz Monzonite C2,S0,P4,tr. Lm Limonitic Altered Quartz Monzonite as above. Upper contact not intact.
43.90	44.80	Limonitic Quartz Monzonite 70:30LAQM-C1,S0,P4, tr. Lm. Limonitic Quartz Monzonite mixed with Limonitic Altered Quartz Monzonite. Lower contact faulted.

From	To	Geological Log
44.80	48.20	Siltstone (Earn Group) 50:50ARG-C1,S0,P4,tr.Lm Deformed, broken Argillite or grey Shale (clay; precursor of grey saprolite). Mostly broken Mostly broken grey claystone and brown-black claystone, most frags <1cm from 46.0-48.2m.
48.20	53.40	Limonitic Quartz Monzonite C0,S0,P4,tr. Lm LQM: weathers more brown; broken in 10cm pieces from 48.2-49.1m. Sed. Xenos ~5-10cm at 50.5,51 and 51.6m. Biotite and feldspars fresh just weathered.100% weathered throughout interval.
53.40	55.30	Siltstone (Earn Group) 50:50SH-C0,S0,P4,tr. Lm SLT: dark grey to black; fissile to compact. Intrusive upper contact. Top 5cm of interval is hornfelsed.
55.30	57.60	Limonitic Altered Quartz Monzonite C0,S0,P4,0.5% Py,0.5% Lm LAQM: intrusive upper and lower contacts. Appears to be typical but not 100% alteration C)3-seric.; feldspar and biotite altered. Micro-veinlets with normal offset; pyrite is mostly in fx's 0-15 degrees to core axis. 100% weathered.
57.60	64.90	Argillite C0,S0,P4,0.5% Py,0.5% Lm ARG: 57.6-58m Graphitic Argillite. Argillite with some silt; bedding rare; cleavage 75 and 45 degrees to CA. Pyrite mostly on fx's. Weathered quartz and calcite veinlets.
64.90	75.50	Limonitic Altered Quartz Monzonite C1,S0,P3,0.5% Py,0.5% Lm LAQM: Sed xenos (0.5-5cm); flow fabric 64.9-66.0m 100% altered, but calcite rather than (Fe,Ca,Mg) C)3. Feldspar and biotite altered to calcite; and white clay in veinlets, late (offset Fe,Ca,Mg, CARBONATE ALTERATION veinlets). Pyrite mostly fine grained disseminated.73.5-73.7m Graphitic Argillite tectonite.
75.50	77.00	Graphitic Argillite C0,S0,P3,tr. Py., 0.5% Lm ARGG: black, tectonite. Slip planes at 60 degrees.
77.00	79.00	Limestone 60:40ARG-C0,S0,P3,0.5% Py,0.5% Lm Grey limestone with clay and black Argillite. 76.9-77m quartz veins deformed. Argillite has 1-2% disseminated pyrite, also in clots. About 20% weathered.
79.00	80.60	Graphitic Argillite C0,S0,P3,tr. Py, 0.5% Lm Graphitic Argillite tectonite with ~40-50% quartz veins, folded.
80.60	82.00	Limonitic Quartz Monzonite C2,S0,P0,tr. Py Faulted upper contact; looks mylonitic. Feldspar altered to calcite; biotite relatively fresh. 60% weathered. Calcite veinlets at 70 degrees and cut be rare FeCaMgC)3 veinlets.
82.00	83.60	Limonitic Altered Quartz Monzonite C2,S0,P0,1% Py LAQM: 80% altered with pockets of Quartz Monzonite. High sericite; most of biotite altered to calcite and sericite. Calcite veinlets with pyrite halos at 80 degrees. 70% weathered.
83.60	85.40	Quartz Monzonite C2,S0,P0,tr. Py Quartz Monzonite as above. 25-30% calcite including grains in groundmass.
85.40	96.60	Limonitic Altered Quartz Monzonite C2,S1,P2,1% Py, 0.5% Lm Limonitic Altered Quartz Monzonite 100% altered. At 85.6, fault with Graphitic Argillite tectonite. Feldspar and biotite altered to sericite and FeCaMgCo3. 3% quartz eyes 85.6-86.7m. 86.7m: 1 cm megacrysts of zoned euhedral plagioclase. Calcite and pyrite veinlets parallel to CA. Very fine grained disseminated pyrite and in micro-veinlets.

From	To	Geological Log
96.60	100.60	Limonitic Altered Quartz Monzonite 60:40QM-C2,S0,0.5% Py,tr. Lm Limonitic Altered Quartz Monzonite with 30-80% Quartz Monzonite. Alteration as above. 98.5-100.6m has calcite alteration, sparse veinlets of pyrite and 10cm and partially digested sed xenos.
100.60	103.80	Graphitic Argillite C1,S0,P3,tr. Py,tr. Lm Graphitic Argillite tectonite (mylonitic in places). Calcite veinlets and metamorphic quartz veinlets. Veinlets deformed, boudinaged locally.
103.80	105.50	Limonitic Altered Quartz Monzonite C2,S1,P3,0.5% Py,tr. Lm LAQM/AQM: Broken mostly 2-10cm pieces fx's parallel to CA. Carbonate and sericite alteration; 100% altered quartz and pyrite locally.
105.50	113.40	Altered Quartz Monzonite C2,S0,P2,1% Py,tr. Lm AQM: Broken mostly 2-10cm pieces fx's parallel to CA. Carbonate and sericite alteration; 100% altered quartz and pyrite locally.
113.40	121.90	Altered Quartz Monzonite C2,S1,P0,2% Py AQM: start of Altered Quartz Monzonite with plagioclase megacrysts. Sericite-cabonate-pyrite and quartz alteration. Qtz microveinlets with pyrite halos. Mostly very fine grained disseminated pyrite. Faulted at 117.7-117.9m.
121.90	123.70	Altered Quartz Monzonite C2,S3,P0,1% Sb,2% Py Altered Quartz Monzonite . 10cm pockets of less altered Quartz Monzonite. Qtz-C03-sericite and pyrite alteration. Stibnite in quartz and calcite veinlets. Quartz microveinlets with calcite rims and pyrite.
123.70	128.60	Altered Quartz Monzonite 60:40QM-C2,S0,P0,tr. Py. AQM: less altered a 124.5m and some feldspars altered to chlorite; increased calcite after 124.5m. Weathered along fractures only.
128.60	134.40	Altered Quartz Monzonite C2,S1,P0,0.5% Py AQM: brittle fault at 129.3m with 20-35 degree rounded Altered Quartz Monzonite frags and hematite matrix. 0.5% limonite-filled veinlets cut C03 veinlets. Very fine grained disseminated euhedral pyrite.
134.40	141.10	Graphitic Argillite C1,S0,P0,tr. Py Graphitic Argillite tectonite (friable appears to be mylonite not indurated); mostly fractured and friable. Local C3 (black and grey limestone). Metamorphic quartz veinlets, lesser calcite veinlets.

*** END OF HOLE *** 141.10

HOLE NO: DD96-106 SECTION: GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE :
LOCATION :
HOLE TYPE : DDH

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 137.8 Final depth: 137.80
Purpose of hole: EXPLORATION
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: DIP TEST

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	20.00	COLLUVIUM
20.00	35.50	ARGILLITE
35.50	38.20	GRAPHITIC ARGILLITE
38.20	41.40	ARGILLITE
41.40	43.80	GRAPHITIC ARGILLITE
43.80	50.70	GRAPHITIC ARGILLITE
50.70	57.50	GRAPHITIC ARGILLITE
57.50	70.60	ALTERED QUARTZ MONZONITE
70.60	71.70	FAULT
71.70	75.00	GRAPHITIC ARGILLITE
75.00	78.00	ALTERED QUARTZ MONZONITE
78.00	79.00	GRAPHITIC ARGILLITE
79.00	80.90	ALTERED QUARTZ MONZONITE
80.90	82.40	GRAPHITIC ARGILLITE
82.40	91.20	ALTERED QUARTZ MONZONITE
91.20	92.50	ALTERED QUARTZ MONZONITE
92.50	96.20	ALTERED QUARTZ MONZONITE
96.20	98.40	GRAPHITIC ARGILLITE
98.40	104.70	ALTERED QUARTZ MONZONITE
104.70	106.90	ALTERED QUARTZ MONZONITE
106.90	107.30	ALTERED QUARTZ MONZONITE

Checked and signed: _____ Date _____

HOLE NO: DD96-106 SECTION: GRID:MINE

107.30	113.60	ALTERED QUARTZ MONZONITE
113.60	114.90	ALTERED QUARTZ MONZONITE
114.90	116.20	GRAPHITIC ARGILLITE
116.20	117.70	GRAPHITIC ARGILLITE
117.70	120.50	ALTERED QUARTZ MONZONITE
120.50	122.90	ALTERED QUARTZ MONZONITE
122.90	129.30	ALTERED QUARTZ MONZONITE
129.30	131.20	QUARTZ MONZONITE
131.20	135.20	ALTERED QUARTZ MONZONITE
135.20	135.90	ALTERED QUARTZ MONZONITE
135.90	137.50	ALTERED QUARTZ MONZONITE
137.50	137.80	ALTERED QUARTZ MONZONITE
137.80		END OF HOLE

Checked and signed: _____ Date: _____

From	To	Geological Log
0.00	20.00	Colluvium Casing
20.00	35.50	Argillite P2,1% Py, 3% Lm Changes downholes from brown/green brown; limonite stained rubbly clay to dark grey silty/shaly broken rock. ~1% disseminated sulfides - pyrite - in matrix.
35.50	38.20	Graphitic Argillite Black, clayey rubble; rare pieces > 3cm length of whole core; predominantly sticky graphitic clay.
38.20	41.40	Argillite P0, tr. Py Dark grey, fine grained matrix with < 1% disseminated pyrite into layered with black graphitic clay zones 5 to 25 cm in length.
41.40	43.80	Graphitic Argillite Black graphitic clay; short lengths of dark grey argillite; broken core; bedding at 90 degrees to Core Axis.
43.80	50.70	Graphitic Argillite P0, tr. Py Black graphitic competent core, planar bedding/lamination 50-60 degrees to core axis; black graphitic clay zones 5cm to 40cm lengths. Trace hairline to mm white fracture/gash fillings. Short intervals of brecciated argillite frags cemented by graphitic clay. Trace disseminated fine grained pyrite in matrix.
50.70	57.50	Graphitic Argillite S1, P0, tr. Py, tr. Sb Pervasive (5%) white powdery clay and quartz convoluted/disrupted veinlets/laminations/gash fillings. Core textures imply ductile/brittle deformation with later healing of bedding plane fractures by graphitic clay and white stockworking. Lensy black graphitic shale, argillite and silty shale (greyer); argillite has black clay zones throughout. Trace disseminated pyrite in silty beds; occasional blebs to 2mm size; occasssional pyrite rich silty lenses; increase in pyrite nearing lower contact, <1%. Lower contact 15 degrees to core axis, marked by shiny semi-polished graphitic surface; small Altered Quartz Monzonite clasts (<1cm) in Argillite high wall. ~1% Sb associated with Altered Quartz Monzonite sill/pluton, invading lowest 2 cm of Graphitic Argillite.
57.50	70.60	Altered Quartz Monzonite P1, 10% Py, 4% Sb Textures: fine grained non-porphyritic and white clay altered porphyritic, pale grey quartz monzonite; 5-7% pyrite dominantly replacement of biotite in porpy. Zones. 7-10% pyrite, cubes fresh and tarnished, very fine grained in non-porph zones. Mineralization: Massive stibnite veins - stibnite core with quartz margins and occassional off white clay sclvages - through core; sizes from hairline to 1 cm, angles ~ 40 degrees to C.A.; no preferential texture - randomly distibuted, pervasive; veinlets seen filling fractures; and replacing existing white veinlets. No massive Sb past 67.5m.
70.60	71.70	Fault BRECCIA ZONE: 30% Altered Quartz Monzonite clasts, 70% matrix filling or replacement by fine grained leucocratic orthoclase, quartz and sulfide and carbonate.
71.70	75.00	Graphitic Argillite SK,SZ Lensy silty grey argillite and black clay rich graphitic argillite encompasses 5% silty argillite clasts and 5% broken Altered Quartz Monzonite clasts. Altered Quartz Monzonite content causes increased hardness of interval. Silty argillite pervasively QTZ gash-filled/stockworked.
75.00	78.00	Altered Quartz Monzonite 60:40 Graphitic Argillite, P0, 2% Py Grey bleached Altered Quartz Monzonite, porphyritic texture, weak but present. Graphitic Argillite frags and clasts to 15cm and alternate with Altered Quartz Monzonite to form breccia textures associated with a broken brecciated Graphitic Argillite lens at 75.8m. Pyrite disseminated throughout Graphitic Argillite and concentrated along margins with Altered Quartz Monzonite clast rich zones.
78.00	79.00	Graphitic Argillite P0, 1% Py Graphite dominated argillite; clayey, rubble and platy black argillite; bedding 50 degrees to C.A. 1% disseminated pyrite throughout clayey matrix.

From	To	Geological Log
79.00	80.90	Altered Quartz Monzonite P0, 3% Py Fine grained non-porph. Texture top and lower 40cm. 30cm quartz stockworked Graphitic Argillite lens, upper contact 60 degrees to C.A. Slickenside at 80m (70 degree to CA) uphole for slickensides; associted with a grey qtz+ser+py+black specks matrix supported breccia zone - grey mottling. Groundmass has a pale green hue, sericite alteration which highlights the various sized minerals and obscures the porph. Texture. 3% pyrite, replacement of mafics. Powdery white carbonate. Clay filled fractures.
80.90	82.40	Graphitic Argillite S3,P0, 2% Py, Sk Graphitic black laminated argillite disrupted by pervasive quartz fs flodding. Overall orientation of banding (bedding or structure?) is 65 degrees to C.A. Upper and lower contacts broken and destroyed.
82.40	91.20	Altered Quartz Monzonite P0,2% Py Pale greenish grey mega porphyritic Altered Quartz Monzonite. White clay altered phenos varying sizes & shapes, up to 1-5cm in size. Hairline white clay and cb filled fractures, shallow to CA; at least two episodes - forms stockwork where both meet in concentration 2% py disseminated through Altered Quartz Monzonite, 1% fine grained silvery sx in top 70cm associated with sx-sericite patches noted in mineralizated zone 57.5-70.6m Polished surfaces at 88.8 and 89.9m, 14 degrees to CA; slicks; 10 degree lineation to CA. Note polished surfaces cause 5 cm chilled halo on HW side.
91.20	92.50	Altered Quartz Monzonite P1, tr. Py Very fine grained, non-porphyritic Altered Quartz Monzonite - bounded by 14 degree to CA polished surfaces; trace pyrite, tarnished in fine groundmass; and as silvery grey disrupted veinlets near bounding fault surfaces.
92.50	96.20	Altered Quartz Monzonite P0, 2% Py Same unit as 82.4m mega porphyritic. Fracture surfaces have fine grained silvery pyrite.
96.20	98.40	Graphitic Argillite S3,P0,tr. Py, Sk Pervasive stockworked graphitic argillite, same textures as 80.9-82.4, increased quartz content to 40%. Trace pyrite disseminated through clayey graphitic argiliite. Upper and lower contacts planan, 50 degrees to CA.
98.40	104.70	Altered Quartz Monzonite P1, 3% Py, tr. Sb Porphyritic pale brownish grey Altered Quartz Monzonite, upper 60cm darker grey, higher py concentration. Brecciated Graphitic Argillite lens at 98.8m. Hairline clay altered veinlets thoughout core and where concentrated form a crackled fracture texture; Qtz+fs 1cm wide veinlets at 7 degrees to CA at 100m. Overall 3% pyrite dominantly replacement of mafics. Faint hematite staining of groundmass 100-100.8m. Foot-wall alteration of qtz+fs vein. 101.5-104.7m hairline qtz+sx+ser patchy veinlets cause grey banding of core - appear to replace white altered veinlets down hole at 104m. Sulfides are py plus stibnite?.
104.70	106.90	Altered Quartz Monzonite P1,1% Py, tr. Sx Porphyritic, same rock, less fracturing, less white veinlets, rare dark grey sx-quartz-ser veinlets and zones. Pale red hue to groundmass in places due to red staining of certain minerals, most noticeably at 105.3-105.8m.
106.90	107.30	Altered Quartz Monzonite Tr Py Finer graied porphyritic texture. Zone of sericite-sx-quartz patchy leasing; bounded by white clay fractures, opposing dips. Lower boundary semi-polished 14 degrees to CA. HW chilling of fault plane at 107.3m as seen before in hole.
107.30	113.60	Altered Quartz Monzonite P0,2% py Pale greenish grey to tan porphyritic Altered Quartz Monzonite with varying shades of grey associated with sericite-sx-quartz patchy veinlets; patchy grey zones contain 5% fine grained disseminated pyrite. Pink coloring to minerals at 112.5m. Porphyritic texture fainter, core weak bleached from 107.3-108.5m. 108.5-108.7m: 20cm sample isolated hairline to mm black veinlet of py+sericite 5mm bleaching envelope either side. No sulphide in Altered Quartz Monzonite.

From	To	Geological Log
113.60	114.90	Altered Quartz Monzonite C1,P0,1% Py Weak potassic alteration. Brown/salmon pink replacement/alteration of fs rich groundmass to pink-POTASSIUM ALTERATION-spar; strong fracturing through interval core breaks easily along clay altered fractures - surfaces are calcareous. Brown staining patchy until 114.6m then pervasive. Pyrite restricted to grey patchy veinlets.
114.90	116.20	Graphitic Argillite S2,Sk Broken, brecciated graphite rich, moderately quartz stockworked argillite. Upper contact stepped 50 degrees to CA. Start getting pyrite Altered Quartz Monzonite clasts in last 30cm.
116.20	117.70	Graphitic Argillite 70:30AQM-S1,P0,3% Py,Sk Brecciated black graphitic weakly stockworked argillite encompassing Altered Quartz Monzonite clasts - strongly brecciated lower contact from intrusive sill - pulled out for assay. Lowest contact with sill/stock is undulating 37 degrees to CA.
117.70	120.50	Altered Quartz Monzonite P0,7% Py,Sk Tan/brownish coloured groundmass, grey mottling from qz-sericite-sulfide patchy fracture filling. Crackle fractured rehealed texture - healing by minerals above. 5% pyrite in brown Altered Quartz Monzonite, replacement of mafics. 10% pyrite in sx patchy fillings. Dark grey quartz stockworking common with associated sericite-sx envelopes. Heavy stockworking results in grey matrix filled Altered Quartz Monzonite clast supported breccia from 119.25-119.65m
120.50	122.90	Altered Quartz Monzonite P1,2% Py,Sk 5cm graphite clay lens at 35 degrees to CA. Porphyritic-mega porphyritic greenish grey Altered Quartz Monzonite. Grey quartz+sx veinlets with thin clay selvages, FW selvages to 4mm thick, upper always <2mm; resulting grey mottling from sericite envelope. 1% pyrite disseminated through groundmass. 5% within and around sx-quartz-sericite patches.
122.90	129.30	Altered Quartz Monzonite P1, tr. Py Rare grey mottling; related to lack of grey mottling is more distinctive porphyritic texture; groundmass minerals replaced by green sericite; mega-phenos angular, cores being replaced by sericite; fs clay rims. Trace pyrite, replacement of mafics. Weak porpylitization
129.30	131.20	Quartz Monzonite P1, 1% Py Dark greyish green; less distinctive igneous textures with no mega-phenos; phenos replaced by chlorite/sericite with pyrite cores. Hairline white carbonate veinlets, shallow angle to core axis. Remnant ragged biotite and hornblende laths. Grey mottling from veinlets/fracture fillings returns; starts and ends abruptly.
131.20	135.20	Altered Quartz Monzonite C1,P0,1% Py Pale greenish tan groundmass; porphyritic texture distinct; mafics destroyed, remnant shape ghosted by sericite and other clay minerals. Grey quartz-py veinlets and associated sericite patches are regular to 133.1m; 45 degrees to CA. White calcareous powdery veinlets shallow to CA common after 133.1m.
135.20	135.90	Altered Quartz Monzonite P0,2% Py 135.25-135.4m: graphitic argillite lens, 14cm true width 50 degrees to CA causes upper 5cm of sample to have a banded fabric; banding only 1cm width at FW (135.4m) - 12cm of pervasive dark grey qtz/py/ser stockworking at 135.6m. Trace pyrite in Altered Quartz Monzonite groundmass, 10% at stockwork zone, 2% in contact with the Graphitic Argillite lens.
135.90	137.50	Altered Quartz Monzonite C1,P0,1% Py Greenish, buff groundmass. Porphyritic textured, mafics completely gone; trace-1% py in groundmass; at 136.3m start getting sx clay & calcareous clay veinlets, hairline sized; 136.37m sx patch 4mm width, clay altered.
137.50	137.80	Altered Quartz Monzonite P0,5% Py,1% As, Sk Greyer groundmass; pervasive quartz-sx stockworking; 3-5% py, trace As (<1%)?

*** END OF HOLE *** 137.80

HOLE NO: DD96-107 | SECTION: | GRID:MINE

PROJECT CODE : BREWERY CREEK
TENEMENT :
PROSPECT :
GRID : MINE
MAP REFERENCE :
LOCATION :
HOLE TYPE : DDH

*** COLLAR COORDINATES AND RL ***

NOMINAL	0.00mN	0.00mE	0.00RL

Pre-collar depth: 156.6 Final depth: 156.60
Purpose of hole:
Hole status:
Comments:

*** DRILLING SUMMARY ***

Material left in hole:
Base of complete oxidation
Top of fresh rock:
Water first encountered:
Water inflow estimate:

*** SIGNIFICANT ASSAYS ***

From	To	Width

*** SURVEY DATA ***

Survey Method: DIP TEST

Depth	Azimuth	Inclination
0.00	0.00	-90.00

*** SUMMARY LOG ***

0.00	21.00	COLLUVIUM
21.00	53.70	GRAPHITIC ARGILLITE
53.70	55.70	GRAPHITIC ARGILLITE
55.70	63.70	GRAPHITIC ARGILLITE
63.70	67.00	GRAPHITIC ARGILLITE
67.00	67.70	ALTERED QUARTZ MONZONITE
67.70	71.90	GRAPHITIC ARGILLITE
71.90	87.50	GRAPHITIC ARGILLITE
87.50	93.30	GRAPHITIC ARGILLITE
93.30	93.70	FAULT
93.70	99.40	GRAPHITIC ARGILLITE
99.40	108.50	GRAPHITIC ARGILLITE
108.50	111.80	GRAPHITIC ARGILLITE
111.80	113.70	GRAPHITIC ARGILLITE
113.70	115.00	ALTERED QUARTZ MONZONITE
115.00	117.40	ALTERED QUARTZ MONZONITE
117.40	118.30	ALTERED QUARTZ MONZONITE
118.30	121.10	GRAPHITIC ARGILLITE
121.10	122.60	ALTERED QUARTZ MONZONITE
122.60	125.40	GRAPHITIC ARGILLITE
125.40	128.60	GRAPHITIC ARGILLITE
128.60	132.60	GRAPHITIC ARGILLITE
132.60	135.90	GRAPHITIC ARGILLITE
135.90	137.10	GRAPHITIC ARGILLITE
137.10	138.20	GRAPHITIC ARGILLITE
138.20	141.20	GRAPHITIC ARGILLITE

Checked and signed: _____ Date _____

HOLE NO: DD96-107	SECTION:	GRID:MINE

141.20	149.10	SILTSTONE (STEEL FORMATION)
149.10	153.50	ARGILLITE
153.50	154.70	GRAPHITIC ARGILLITE
154.70	155.30	ALTERED QUARTZ MONZONITE
155.30	156.60	GRAPHITIC ARGILLITE
156.60		END OF HOLE

Checked and signed: _____ Date _____

From	To	Geological Log
0.00	21.00	Colluvium CASING
21.00	53.70	G raphitic Argillite Gr Rubbly, blocky, graphitic clay and graphitic platey argillite discs and fragments. Abundant wood fragments to 44.5m; possibly thick colluvium blanket. White quartz frags at 38.7m; becomes harder and competent by 41.5m; still numerous clay zones; 47.5m core breaks aloong graphitic beds 25 degrees to CA. Starts getting quartz frags/lenses regularly after 45m.
53.70	55.70	G raphitic Argillite Greyish black graphitic argillite, less graphitic than 21-53.7m; harder, more solid rock; pale grey colour caused by hairline pale tan clay lamina. Bedding at 55 degrees to CA, dominant breakage direction. Core also breaks across beds along stepped fractures at shallow angles to the CA.
55.70	63.70	G raphitic Argillite Sk Black graphitic soft argillite, breaks when removing pieces from box; moderate clay content in matrix; ccasional white quartz lenses-disrupted veinlets, 1-8mm size;common from 58.5-59.5m
63.70	67.00	Graphitic Argillite S1,P0,1% Py,Sk Pervasive broken quartz stockwork to 64.2m; 3% pyrite blebs/grains. Strong clay graphite component to 66.2m; no stockwork. Alternating soft Graphitic Argillite and siliceous Argillite - siliceous from white quartz frags and broken, disrupted Altered Quartz Monzonite clasts. 1% py associated with Altered Quartz Monzonite component to 67m.
67.00	67.70	Altered Quartz Monzonite P1,1% py Pale greenish-grey faint porphyritic texture; 1% pyrite-replacement of mafics- mafics destroyed; hairline to mm fs clay +minor carbonate veinlets shallow to CA.
67.70	71.90	Graphitic Argillite P0,1% Py 67.7-68.15:comminuted Altered Quartz Monzonite and quartz clasts. Sulfide rich matrix or just graphitic argillite? extreme clay altered. Clayey argillite, brecciated, deforemed, highly graphitic. Bedding/breakage among competent pieces in 45 degrees to CA. Clay/gouge zone 69-69.2m. Core is less clay altered past 69.2m, partially clay healed fracturing is pervasive.
71.90	87.50	Graphitic Argillite S1,P0,1% py,Sk White qtz+fs healing of pervasive fracturing. Less clay altered matrix; bedding/layering distinct 45 degrees to CA. 75.6-76.6m intense fracturing/shear. Stockwork/healing decreases downhole. Clay content increases downhole. White quartz veinlets increased in size downhole, 7cm patch at 79.9m Pyrite present as blebs and with quartz stockwork.
87.50	93.30	Graphitic Argillite 1% Py Increased clay content to matrix, rare fracture healing, occassionaly by white quartz; diagenetic pyrite. Polished graphitic surfaces. Core becomes squeezed clay/argillite chips at 92.2m
93.30	93.70	Fault GOUGE Graphitic Argillite - 1.3m of sand/oozey clay; blocks indicate only 40cm sample length.
93.70	99.40	Graphitic Argillite 1% Py,Sk Same broken/pervasive fractured black argillite with occasional quartz veining, pyrite/qtz lenses, py blebs.
99.40	108.50	Graphitic Argillite 1% Py None to very little stockwork; pervasive fracturing; bedding/prominent fracturing 25 degrees to CA. 20cm stockworked interval 104.3m. NOTE: quartz stockworking seen above is broken, brecciated and displced by later fracturing.
108.50	111.80	Graphitic Argillite Gr,tr. Py Very black very graphitic, strongly fractured argillite. Polished graphitic fault planes ~10 degrees to CA. Trace pyrite as discrete blebs and within minor quartz veining. Zone ends at a 5cm clay shear at 50 degrees to CA.

From	To	Geological Log
111.80	113.70	Graphitic Argillite P0,1% Py, Sk Black graphitic clay healed fractures enclosing dark greyish black hard argillite frags. Fractures prominently 25 degrees to CA. Last 20cm has 15% broken quartz frags. Pyrite is present as blebs and disrupted lenses with qtz; 10% through the last 15cm related to contact with AQM; no silvery/grey sulfide as found in the Altered Quartz Monzonite. Lower contact with Altered Quartz Monzonite is 35 degrees to CA.
113.70	115.00	Altered Quartz Monzonite P0,10% Py,10% Sb, Sz Non-porphyritic, weakly siliceous grey AQM; pervasively soft, metallic dark grey sulfide patches, veinlets and fracture fillings; fractures originally healed by white fs clays; core breaks along polished planes at 40 degrees to CA. 10% dark grey mineral - stibnite as veinlets and fracture fillings; 10% pyrite, disseminated cubes throughout groundmass.
115.00	117.40	Altered Quartz Monzonite P0,7% Py,tr. Sb Lack of massive Sb veinlets, increased clay altered groundmass; broken core from pervasive white clay healed fractures. Those fractures were replaced by sulfide from 113.7-115m. Pyrite disseminated through groundmass, trace blebs of silvery mineral.
117.40	118.30	Altered Quartz Monzonite 5% Py,2% Sb Return of fracture filling replacement by quartz and Sb, veinlets to 4mm width; softer groundmass than 113.7-115m, but still competent core. 5% fine grained disseminated pyrite, 2% stibnite veinlets; stibnite surfaces sometimes have a dull red-brown (hematite like) tarnish; Mirror polished surface (slicks) 30 degrees to CA at 118m; slight increase in pyrite nearing contact with Graphitic Argillite in footwall of slick mentioned above.
118.30	121.10	Graphitic Argillite Gr,1% Py Upper contact 33 degrees to CA. Soft very black, strongly graphitic clay, can be deformed with fingers, breaks very easily. Matrix becomes less graphitic, less clay altered downhole. After 120. 3m core is solid with pervasive pyrite nodules to 2 cm size. Bedding prodominant cleavge 50 degrees to CA. Lower contact 65 degrees to CA.
121.10	122.60	Altered Quartz Monzonite 7% Py,2% Sb,tr. As Very fine grained, grey Altered Quartz Monzonite. Solid to 121.9m, broken pervasive clay healed fractures 121.9-122.6m. Stibnite veinlets, fracture filling replacement throughout core; pyrite disseminated throughout groundmass. Trace white silvery blebs in pervasively fractured, clay altered core.
122.60	125.40	G raphitic Argillite Gr Black, powdery, clayey graphitic argillite, semi polished graphitic surfaces seen; cannot remove core from box without crumbling. Upper contact is 60 degrees to CA, broken, very clay altered.
125.40	128.60	Graphitic Argillite C1,S3,tr. Py,Sk Pervasive white gash/cleavage/fracture-filling qtz+fs+cb stockworking. 126-126.9m: black graphitic clay rubble rich interval. Breaks across/along bedding planes 70 degrees to CA. 127.5-128.9m black graphitic rubble/fragment interval.
128.60	132.60	Graphitic Argillite Sk,Sz Black, solid, graphitic argillite; last 1-2m broken; pervasive fracturing, thin intervals of quartz-cb infilling. Short lengths of qtz/fs stockworking. Polished surfaces, parallel bedding, slickensides at 45 degrees to CA. Black, clay/silt and paler black silty beds 1cm to 10cm thickness 45 degrees to CA.
132.60	135.90	G raphitic Argillite Gr Strongly graphitic argillite - clay and rubbly intervals dominant, whole core pieces are friable.
135.90	137.10	Graphitic Argillite S3,Sk Graphitic, black argillite; pervasive qtz+white feldspar stockwork; stockwork is broken, disrupted and wavy; matrix is graphitic but stockwork has caused hardning of matrix.

From	To	Geological Log
137.10	138.20	G raphitic Argillite S4 Textural change to 30% comminuted qtz/fs frags and broken bands; Strong shear direction along bedding 45 degrees to CA. No visible sulfides. Second shear direction dips opposite to bedding, 25 degrees to CA. Slickensides indicating slip orthogonal to core axis.
138.20	141.20	Graphitic Argillite Graphitic Argillite TECTONIC BRECCIA;S3,5% Py Brecciated, rehealed, pervasive crackle fracture rehealed; pervasive white qtz/fs clots, wisps and gash fillings. Massive bronze py nodules and lenses and patches; 140-140.9m unit is a matrix supported argillite breccia with 3% pyrite dissemnated in matrix. Slickensides 45 degrees to CA. 3cm pyrite bed at 138.9m, 10cm patch at 140.1m. Abrupt contact at 141.2m, 55 degrees to CA.
141.20	149.10	Siltstone (Steel Formation) 70:30ARG, P0,1% Py,Sk Grey clay altering matrix with black wispy laminations and thin argillite beds. Hairline to mm white veinlets common as stockworking; decreases in amount and regularity downhole. Minor brecciated (soft sediment) textures, core is prominently wispy layered (silt & mud) at 45 degrees to CA. Occassional leticular bronze py blebs; disseminated through core, forming clusters from 148.3-148.6m; core breaks across bedding.
149.10	153.50	Argillite 80:20SST-P0,tr. Py Non-graphitic argillite with siltstone beds; thinly laminated at 40 degrees to CA. Rare white veinlets broken. Pyrite as blebs as above.
153.50	154.70	Graphitic Argillite C1,Sk,Sz Black, clayey/rubbly graphitic argillite, pervasive broken white stockwork. Bedding 50 degrees to CA.
154.70	155.30	Altered Quartz Monzonite P1,tr. Py Borderline Altered Quartz Monzonite. Pale, green hued, fine grained groundmass - fs to sericite and other clays; mafic depleted - 2%; no sulfide to trace replacing mafics. 2% tarnished, irregular shaped, shiny black blebs - biotite being replaced by pyrite.
155.30	156.60	Graphitic Argillite C1,S3,Sk Greyish black, hard argillite (stockwork/qtz frags) and black, strongly graphitic clayey argillite; same unit as 153.5-154.7m; increased stockwork. Bedding from 50 to 30 degrees to CA. NOTE:cave at 94m, sand in hole & cannot get down after bit change.

*** END OF HOLE *** 156.60