DIAMOND DRILLING

TOWNSHIP: KILLALA REPORT NO: 18

WORK PERFORMED FOR: Black Cliff Mines Ltd.

RECORDED HOLDER: Same as Above (xx)
: Other ( )

Claim No.	Hole No.	Footage	Date	Note
903709	LL-89-1	136.24m	Feb/89	(1)
	LL-89-2	136.85m	Feb/89	(1)
	LL-89-3	167.3m	Feb-Mar/89	(1)
903711 &				
903712	LL-89-4	154.53m	Mar/89	(1)
903714	LL-89-5	102.7m	Mar/89	(1)
	LL-89-6	175.9m	Mar/89	(1)
903718	LL-89-7	157.6m	Mar/89	(1)
	LL-89-8	99.7m	Mar/89	(1)
	LL-89-9	154.4m	Mar/89	(1)
	LL-89-10	175.9m	Mar/89	(1)
903705 &				
903706	LL-89-11	148.4m	Mar/89	(1)
976964	LL-89-12	142.3m	Mar/89	(1)
	LL-89-13	197.2m	Mar/89	(1)
903703	LL-89-14	194.1m	Mar/89	(1)
	LL-89-15	136.2m	Mar/89	(1)
903718	LL-89-16	246.0m	Apr/89	(1)
	LL-89-18	264.2m	Apr/89	(1)
903706	LL-89-19	178.9m	Apr/89	(1)
	LL-89-20	123.1m	Apr/89	(1)

NOTES: (1) W8902-102, date filed Sept/89

REPORT ON THE 1989 DIAMOND DRILL PROGRAM

LAIRD LAKE PROPERTY

RED LAKE MINING DIVISION, ONTARIO

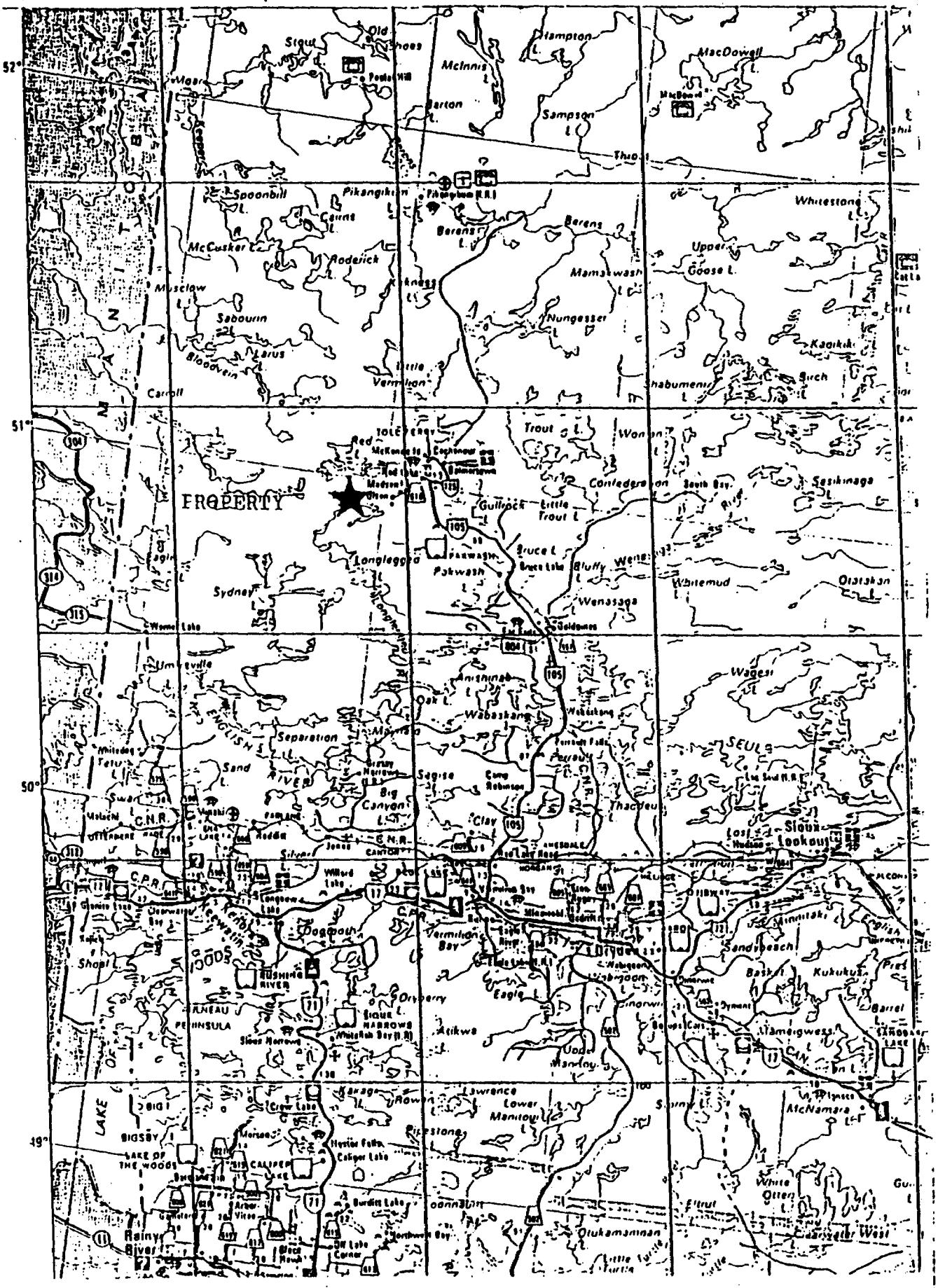
NTS 52 L/16

FOR

CYPRUS GOLD (CANADA) LIMITED

Toronto, Ontario
May 1989

Murray C. Rogers, M.Sc.
Orex International



General location map, property as indicated (1:800,000).

Table of

Page

List of Figures

List of Tables

SUMMARY

The Laird Lake gold property consists of a contiguous block of 80 unpatented claims in Killala Township, which lies about 25 km (16 miles) southwest of the town of Red Lake in northwest Ontario.

The property was recently optioned by Cyprus Gold (Canada) Ltd. from Black Cliff Mines Limited of Toronto.

Cyprus Gold carried out a diamond drill program on the property from February 22 to April 11, 1989. N. Morissette Drilling Inc. was contracted to do the drilling. Technical support was provided by personnel of Orex International Consulting, which included the author and geologist V. Kovac. A total of 19 holes were drilled for a total of 3091.6 meters (10,144 feet). Targets included known gold occurrences and I.P./resistivity anomalies.

The drill program adequately examined and explained the proposed targets with the exception of one geophysical anomaly which was inaccessible to the drill.

Mafic to ultramafic volcanic flows and granodiorite intrusions are the dominant lithologies on the claim group. A large deformation zone of up to 500 meters in width trends generally east-west through the property and probably represents an extension of the Howey Bay - Flat Lake Deformation Zone, which hosts the Madsen and Starrett-Olsen gold mines to the east. The deformation takes the form of the mylonitization and shearing of the rocks.

Silica and biotite alteration and pyrite-pyrrhotite enrichment is commonly developed in the deformed lithologies. Variable talc, carbonate and chlorite alteration can also be found in the mafic-ultramafic volcanic sequences.

Gold mineralization has been found in a number of localities in the southern and eastern portions of the claim block. The gold is generally associated with grey quartz veins, veinlets and stringers in altered and deformed mafic-ultramafic volcanics, exhalites and granodiorite, commonly with sulfide enrichment.

A number of generally east-west trending, low grade, inconsistent, gold-bearing zones were revealed by holes 7, 8, 9, 10, 16 and 18 in the area of lines 37+00W to 40+00W. An intersection of 0.205 oz gold per ton across 1.5 meters (4.9 feet) was encountered in hole LL-89-9. This area has been adequately examined and no further work appears to be warranted. This does not rule out the possibility of better mineralization along strike to the west.

An intersection of 0.245 oz gold per ton across 1.3 meters (4.25 feet) was encountered in hole LL-89-11, hosted by a pyritic, silicified granodiorite mylonite unit with narrow quartz veinlets and stringers in a much wider section of pyritic (up to 15%) mylonite. Holes 19 and 20 were drilled respectively 100 meters to the east and west along strike. Both holes intersected the pyritic

zone but there were no associated gold values. There are indications that the pyritic zone could continue for a significant distance to the east.

A limited program of bulldozer trenching is recommended to expose the pyritic zone at 15 meter (50 foot) intervals along the trend in the L13+00W to L15+00W area and along strike to the west and east if warranted. The trenches would then be washed and the pyritic zones channel sampled.

An interpretation of the ground magnetometer surveys indicate that the favorable lithologic units and probably the deformation zone extend into the 12 new claims to the southwest. It is recommended that these claims be geologically mapped, prospected and sampled. An I.P./resistivity survey would also be warranted.

Favorable mafic-ultramafic volcanic units are interpreted to almost totally underlie Laird Lake. An I.P./resistivity survey on the lake ice during the winter would provide further information to evaluate this area.

No further drilling is recommended until the results of the preliminary work can be evaluated.

A summer program of mapping, prospecting, trenching and rock sampling has a suggested budget of $60,500.

A winter program of an I.P./resistivity survey of 30 line miles has a suggested budget of $63,000.

INTRODUCTION

Cyprus Gold (Canada) Ltd. of Vancouver, B.C., carried out a diamond drill program on the Laird Lake property near Red Lake, Ontario, from mid-February to mid-April 1989.

This report briefly summarizes the background information on the property and the Red Lake area and reports on the results of the diamond drill program. Recommendations are also made for further work on the property.

PROPERTY LOCATION AND ACCESS

The property is located within Killala Township about 25 km (16 miles) southwest of the town of Red Lake in northwest Ontario. Access to the claim group is via Highway 618 and the Flat Lake - Suffel Lake gravel road (Figure 1). The gravel road connects to Highway 618 about 2 km south of the town of Madsen. A recent logging road extends south from the Flat Lake road about 13 km from the highway. The logging road proceeds through the eastern part of the claim block. Drill roads bulldozed for this program extend from the logging road to the eastern shore of Laird Lake and along the southern part of the property.

Aircraft charters, supplies and services are available in Red Lake, a mining town of about 2,000 inhabitants.

PROPERTY LAND STATUS

The Laird Lake property consists of 80 contiguous unpatented mining claims comprising 3200 acres in Killala Township, District of Kenora, Red Lake Mining Division (Figure 2). The property specifics are outlined below:

Claim No.	Acres	Recording Date	Due Date
KRL 903703-720 incl.	40 each	Aug 18/86	Aug 18/89
KRL 976955-999 incl.	40 each	July 6/87	July 6/90
KRL 977000-004 incl.	40 each	July 6/87	July 6/90
KRL 1057167-178 inc.	40 each	Feb 4/89	Feb 4/90

PREVIOUS WORK

The Laird Lake property has been intermittently explored for gold since 1936. The early work is well summarized in N. Willoughby's 1988 company report for Black Cliff Mines and outlined again in A. Farkas' 1988 company report for Black Cliff Mines. The early exploration from 1936 to 1964 comprised trenching, sampling and about 13,000 feet of shallow diamond drilling.

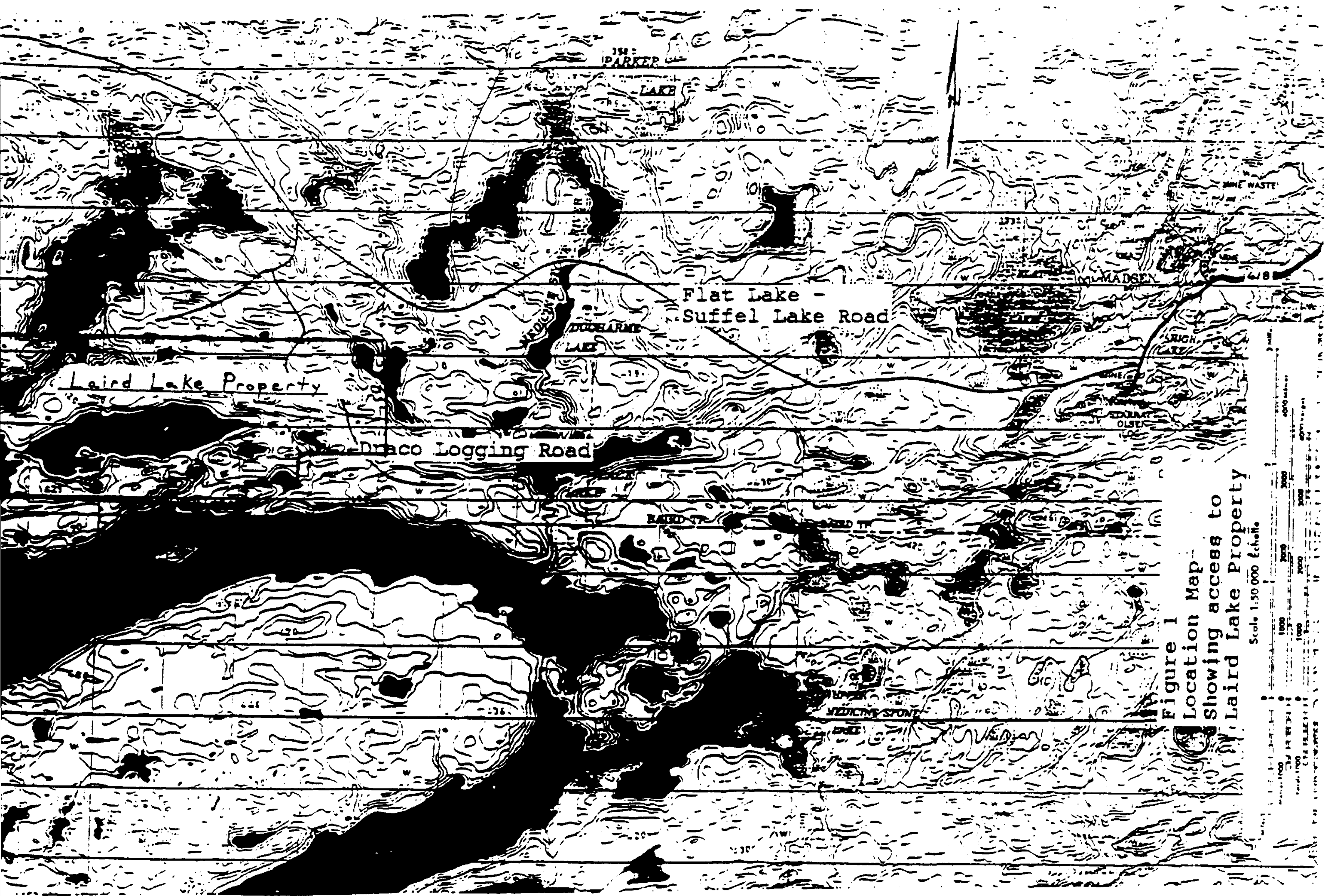
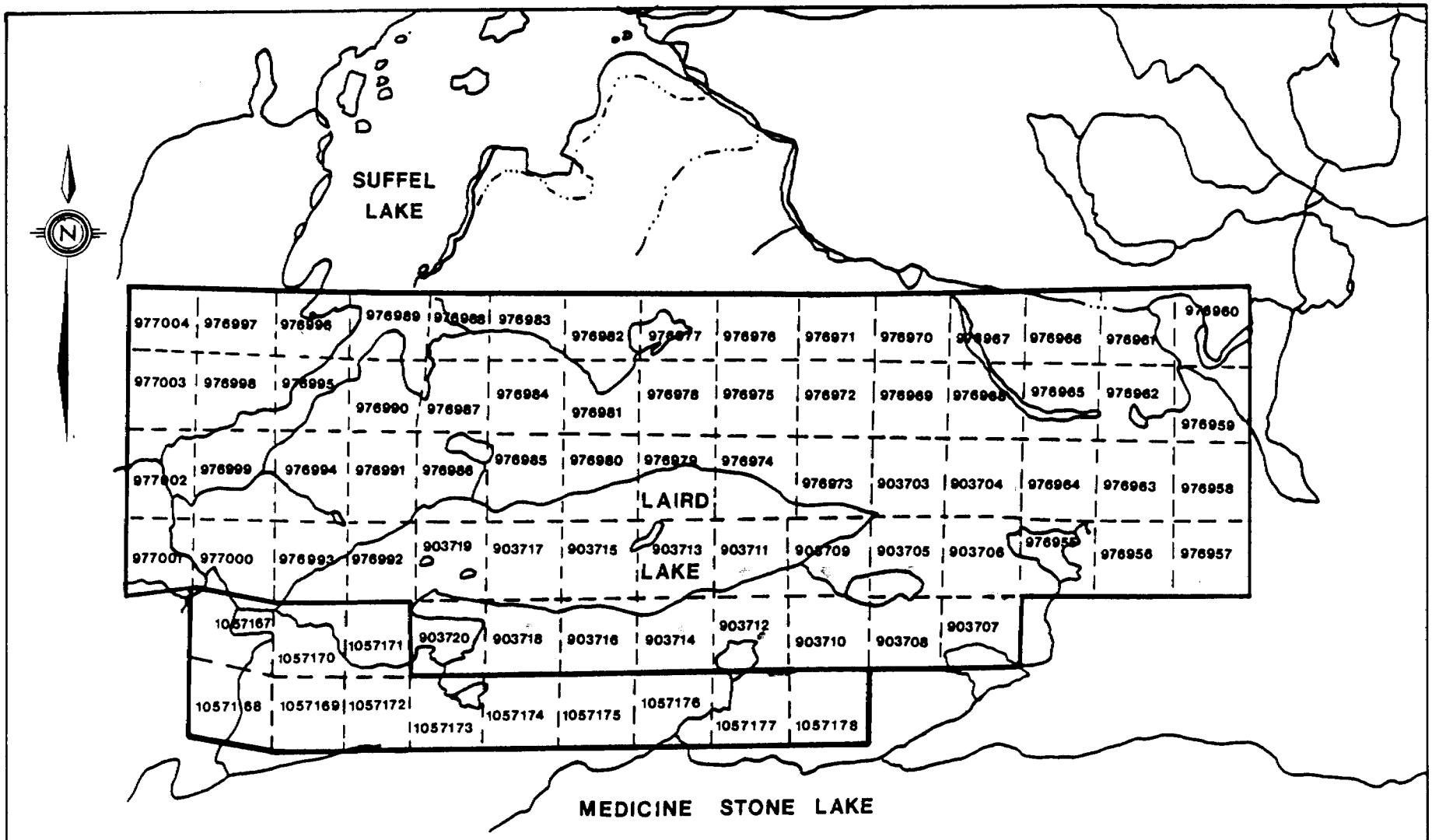


Figure 1
Location Map-
Showing access to
Laird Lake Property
Scale 1:50 000 Échelle



PORTION OF CLAIM MAP OF KILLALA TWP.

scale 1" = 1/2 mile

figure 2

In 1987-88 Black Cliff Mines undertook an extensive program of grid line cutting, geological mapping and sampling and VLF-E.M., magnetometer and selective I.P./resistivity surveys.

The geological mapping outlined a prominent, east-west trending deformation zone, some 500 meters wide, which crosses the central part of the property and is probably an extension of the Flat Lake - Howey Bay Deformation Zone which hosts the past producing Madsen and Starrett-Olsen gold mines.

The sampling of old trenches revealed several gold-bearing zones along the southern portion of the claim group.

A number of linear, generally east-west trending I.P./resistivity anomalies were outlined by the survey. Some of the anomalies coincided with known mineralized zones whereas others were unexplained.

REGIONAL GEOLOGY AND GOLD MINERALIZATION

The Red Lake greenstone belt occurs in the Uchi Subprovince which is part of the Superior Province of Archean age. Both tholeiite-komatiite and calc-alkaline volcanic rocks are present in the district. Narrow exhalite units of ferruginous sedimentary rocks and cherts are interlayered with the mafic and felsic volcanic rocks. Sedimentary rocks overlie the mafic volcanics. Late ultramafic to felsic intrusions are intrusive into the volcanic rocks. With minor exceptions, the gold deposits of the Red Lake District are hosted by rocks associated with the tholeiite-komatiite volcanic sequence.

Several major NW to NE trending zones of ductile deformation have been recognized in the Red Lake area. The present and past producing gold mines are located within these deformation zones.

Production to date for the Red Lake camp totals about 16 million ounces of gold mainly from the presently producing Campbell and Dickenson and past producing Madsen mines.

Mineralization at the Campbell and Dickenson mines takes the form of auriferous, sulfide-bearing quartz-carbonate veins hosted by mafic to ultramafic volcanic rocks.

The past producing Madsen (2,416,000 oz. gold produced) and Starrett Olsen (163,900 oz. gold) mines are located about 8 miles east and on-strike with the Laird Lake property. The mineralization occurred as auriferous quartz veins concentrated within fracture zones of biotite altered, mylonitized mafic and ultramafic volcanics.

Other mineralilzation styles in the Red Lake district include auriferous quartz veins hosted by iron formation (i.e. McFinley deposits), sulfide-rich quartz lenses, veins and stringers in a porphyry dyke (i.e. Hasaga mine) and siliceous shears within granitic stocks (i.e. McKenzie mine).

PROPERTY GEOLOGY

The geology of the Laird Lake property consists mainly of basalt with minor ultramafic flows of tholeiitic and komatiitic affiliation and a variety of granodiorites associated with the Killala Batholith and Medicine Stone Lake Intrusion, which occur respectively along the northern and southern portions of the claim group. Ferruginous sedimentary and chert exhalite horizons exist within the volcanic sequence. Small intrusions ranging from ultrmafic to felsic in composition occur as late dykes and stocks.

A prominent, east-west trending deformation zone of up to 500 meters in width trends through the center of the property. It is probably an extension of the Flat Lake - Howey Bay Deformation Zone which hosts the past producing Madsen and Starret Olsen mines. The deformation is evident as mylonite development in both the volcanic and granodiorite rock units. Variable silica and biotite alteration with local pyrite enrichment are commonly developed within the mylonite units. Foliation is generally developed east-west with sub-vertical to vertical dips.

Gold mineralization has been found on the property associated with quartz veins, veinlets and stringers in the following situations:

(a) with sheared, biotite altered mafic volcanics.
(b) sheared or fractured pyritic mafic volcanics.
(c) sheared and silicified mafic volcanics.
(d) fractured, pyritic exhalitive volcanics.
(e) recrystallized exhalites or silicate iron formation with late hydrothermal pyrite and pyrrhotite.
(f) interflow sediments or tuffs with disseminated pyrite and minor exhalitive carbonate.
(g) pyritized felsic mylonites with or without sericite and arsenopyrite.

A summary of the rock units is represented in Table 1. One is referred to the 1988 report by A. Farkas for a thorough description of the property geology and rock types. A general representation of the major rock units is outlined on the compilation map (pocket).

Table 1 - Summary of Rock Units

6		Felsic mylonites; few or no relict textures; probably derived from granodiorite and quartz porphyry.
5	5a	Quartz porphyry
	5b	Quartz-feldspar porphyry
	5c	Aplite dyke
	M	Denotes protomylonite to mylonite.
4	4a	Biotitic granodiorite
	4b	Leucogranodiorite
	4c	Granodiorite-mafic volcanic hybrid; variable composition; formed from the pervasive granodiorite contamination of the volcanic.
	M	Denotes protomylonite to mylonite.
3	3a	Ultramafic flow
	3b	Hornblendite
	M	Denotes protomylonite to mylonite.
2	2a	Gabbro
	2b	Gabbro or diorite, feldspar porphyritic
	2c	Diorite dykes
	2d	Pyroxene porphyry
	M	Denotes protomylonite to mylonite.
1	1a	Basalt flow
	1b	Mafic volcanic agglomerate or lapilli tuff
	1c	Mafic volcanic tuff
	1d	Hornfelsed mafic volcanic rock
	1e	Exhalites or interflow sedimentary rocks; chert, silicate iron formation and minor carbonate
	M	Denotes protomylonite to mylonite.

* The rock units are not listed according to age relationships.

Table 2 - Summary of the Diamond Drill Program

Drill Hole No.	Claim No.	Location	Azimuth	Dip	Length (meters)	Drilling Dates	Target	Results* (oz.Au/ton/m/)
LL-89-1	903709	21+40 W; 7+75 S	160	-50	136.2	Feb. 22-25	Grab sample assays up to 1761 ppb Au.	0.011/1.1
LL-89-2	903709	22+70 W; 7+70 S	330	-50	136.9	Feb. 25-27	I.P. anomaly; resistivity low; assays up to 1694 ppb Au.	0.011/1.5
LL-89-3	903711	L24+00W; 8+05 S	340	-45	167.3	Feb. 28-Mar. 2	I.P. anomaly; resistivity low; assays up to 1546 ppb Au.	
LL-89-4	903712	L24+00W;11+25 S	180	-50	154.5	Mar. 3-5	I.P. anomaly; resistivity transition low to high.	
LL-89-5	903714	L29+00W;12+00 S	0	-50	102.7	Mar. 5-7	I.P. anomaly	
LL-89-6	903714	29+75 W;10+12.5 S	340	-45	175.9	Mar. 8-10	I.P. anomaly; resistivity low; assays up to 8151 ppb Au.	
LL-89-7	903718	L40+00W;11+60 S	345	-50	157.6	Mar.10-12	I.P. anomaly; resistivity low	.019/1.0,.03/1.7 .027/1.5,.010/1.0
LL-89-8	903718	L40+00W;12+25 S	0	-50	99.7	Mar. 12-13	I.P. anomaly	.012/1.5
LL-89-9	903718	38+80 W;11+60 S	340	-50	154.5	Mar. 13-14	I.P. anomaly; resistivity low; assays up to 24,217 ppb Au.	0.205/1.5
LL-89-10	903718	L37+00W;11+00 S	0	-50	175.9	Mar. 15-17	I.P. anomaly; low-mod. resistivity; assays up to 1641 ppb.	.017/0.6
LL-89-11	903706	L14+00W; 7+50 S	0	-50	148.4	Mar. 18-20	I.P. anomaly; resistivity low - high transition.	0.01/1.0, 0.245/1.3
LL-89-12	976964	L12+00W; 4+40 S	0	-50	142.3	Mar. 20-21	I.P. anomaly; resistivity low.	
LL-89-13	976964	11+75 W; 4+32.5 S	170	-50	197.2	Mar. 22-24	Thick section of unit 6. Assay of 394 ppb Au.	
LL-89-14	903703	L18+00W; 4+35 S	0	-50	194.2	Mar. 27-29	I.P. anomaly; resistivity low.	0.010/1.4
LL-89-15	903705	L19+00W; 4+62.5 S	180	-50	136.2	Mar. 30-31	I.P. anomaly; resistivity low;; assays to 125 ppb Au.	
LL-89-16	903718	38+50 W;12+32.5 S	340	-50	246.0	Apr. 1-4	Deep hole under gold intersection in hole 9.	
LL-89-17		L38+00W;11-70 S	345	-50	-	Not drilled		
LL-89-18	903718	37+87.5W;12+25S	345	-50	264.2	Apr. 5-7	Deep hole along strike fr hole 9 intersection.	.013/0.95, .012/1.5,029/1.2 .011/1.5,.010/1.5
LL-89-19	903706	L13+00W; 7+35S	0	-50	178.9	Apr. 8-10	Along strike from gold intersection in hole 11.	
LL-89-20	903706	L15+00W; 7+25S	0	-50	123.1	Apr. 10-11	Along strike from gold intersection in hole 11.	

* Assay results ≥ 0.01 oz.Au/ton reported. Refer to hole summaries for details.

DIAMOND DRILL PROGRAM SUMMARY

Cyprus Gold carried out a diamond drill program on the Laird Lake property during the Winter-Spring of 1989. N. Morissette Drilling Inc. was contracted to do the drilling. The author and geologist Viera Kovac provided the technical support for the program.

Nineteen BQ-sized holes were drilled for a total of 3091.6 meters (10,144 feet) from February 22 to April 11, 1989.

The drill targets included known gold occurrences and/or geophysical anomalies. Four of the holes were drilled to follow up significant intersections in hole LL-89-9 (0.205 oz Au/ton/ 1.5 meters) and hole LL-89-11 (0.245 oz Au/ton/1.3 meters).

A total of 1366 split core samples were taken for analysis. The samples were assayed by Accurassay Laboratories Ltd. of Red Lake. The fire assay-atomic absorption method was employed with a 0.001 oz gold/ton detection limit. Assay results are included with the drill logs in Appendix A and listed on the assay certificates in Appendix B.

The drill program is summarized in Table 2. Cross-sections for each hole are illustrated in Figures 3 to 21. Complete drill logs with the assay results comprise Appendix A. The drill hole locations with the significant gold intersections are depicted on the compilation map (pocket). A brief description of each hole is given below.

Hole No. LL-89-1

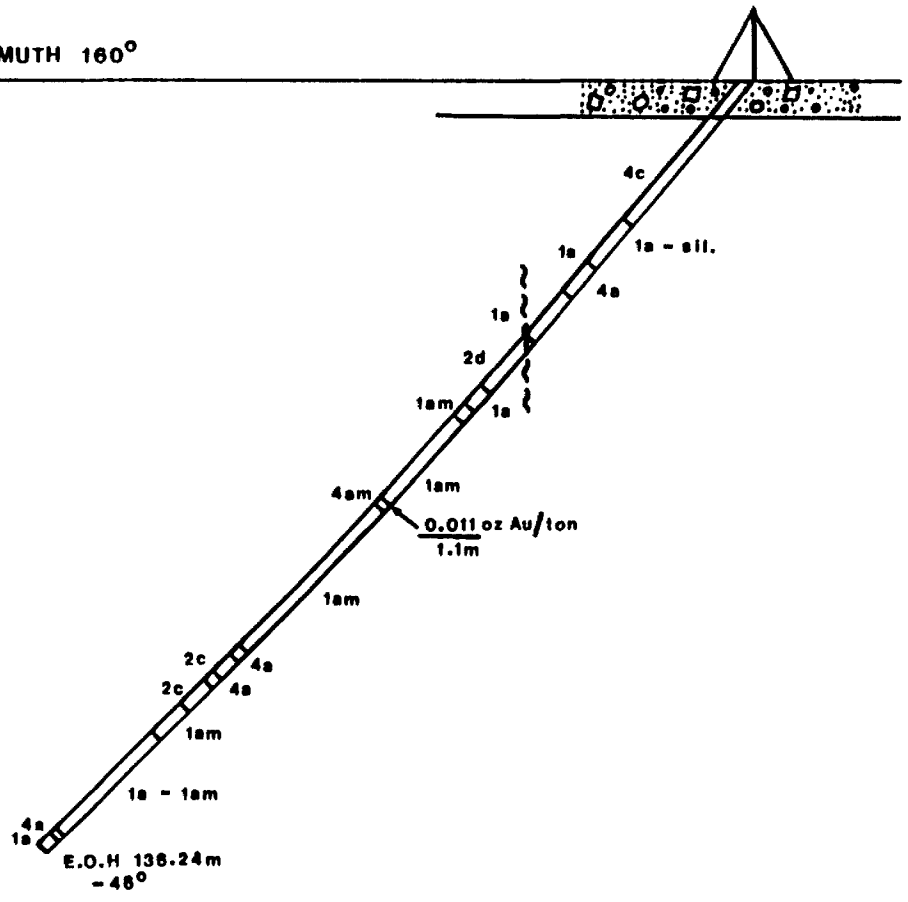
Target: Assays up to 1761 ppb Au from grab samples in felsic mylonite.
Geology: Mafic volcanic flows intruded by granodiorite with extensive sections of protomylonite-mylonite and late mafic-intermediate dykes. Common silicification, local biotite alteration, local pyrite enrichment (up to 5%).
Results: 70.9-72.0 : 0.011 oz Au/ton; 5-30% biotite alteration, 0.5-3.0% pyrite, mafic volcanic mylonite host.

Hole No. LL-89-2

Target: I.P. frequency effect anomaly of 6-7%, resistivity low, magnetic low, grab sample assays up to 1694 ppb Au from a silica flooded, sulfide-bearing chert horizon.
Geology: Granodiorite and mafic volcanic flows with minor tuff and occasional interflow ferruginous sediment, sulfide iron formation and chert exhalite horizons.
Results: 37.0-38.5 : 0.011 oz Au/ton; interflow siliceous sedimentary exhalite horizon with 3-5% pyrite-pyrrhotite.

LINE 21+40W; 7+75S

AZIMUTH 160°



LEGEND

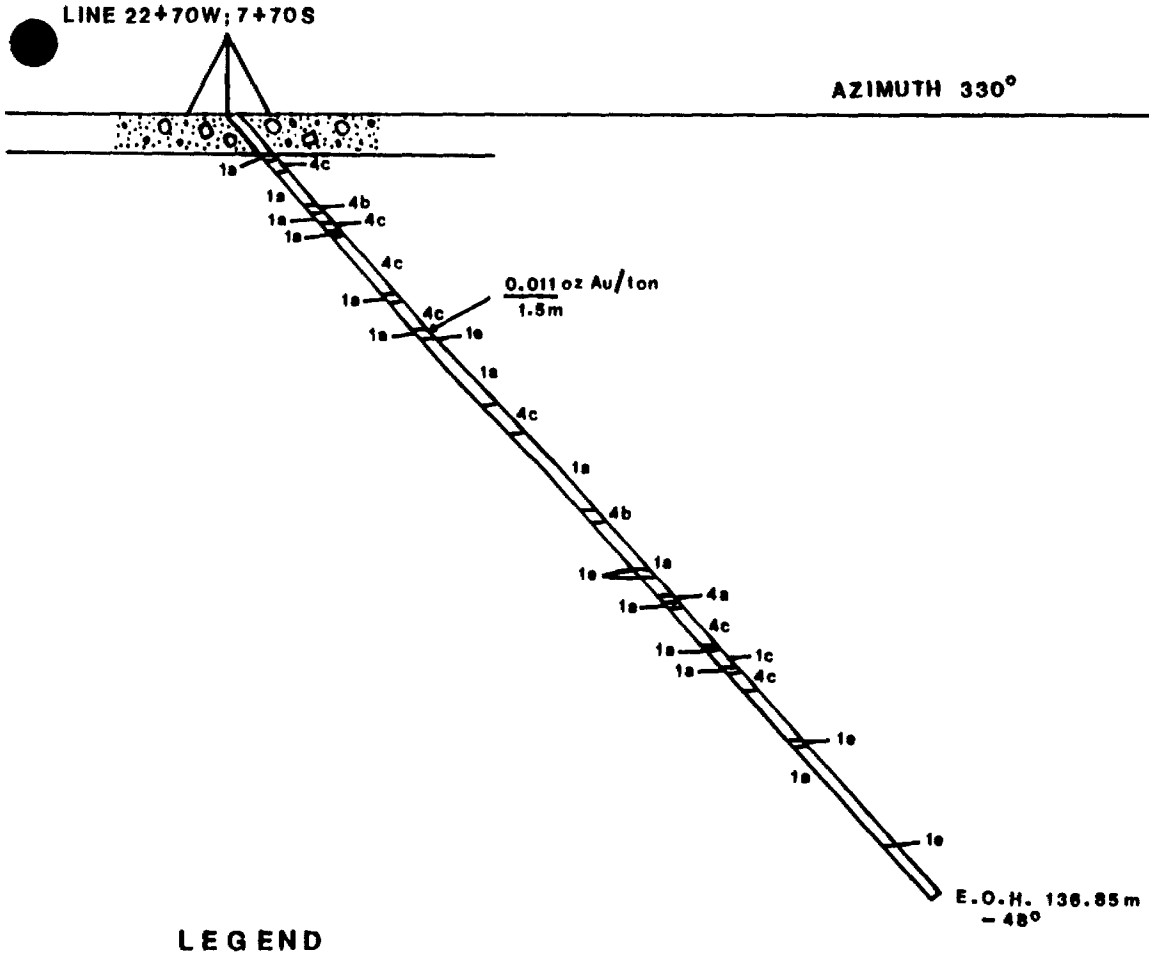
- 4a GRANODIORITE; BIOTITIC
- 4am GRANODIORITE; MYLONITIC
- 4c GRANODIORITE; MIXED HYBRID
- 2c DIORITE
- 2d GABBRO; PYROXENE PORPHYRY
- 1a BASALT; FLOW
- 1am BASALT; MYLONITE

Assay - Ie. $\frac{0.011 \text{ oz Au/ton}}{1.1\text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-1
CROSS-SECTION

scale 1:1,000

Figure 3



LEGEND

- 4a GRANODIORITE; BIOTITIC
- 4b LEUCOGRANODIORITE
- 4c GRANODIORITE; MIXED HYBRID
- 1a MAFIC VOLCANIC; FLOW
- 1c MAFIC VOLCANIC; TUFF
- 1e EXHALITE

Assay – 1e. $\frac{0.011 \text{ oz Au/ton}}{1.5\text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-2
CROSS-SECTION

scale 1:1,000

Figure 4

Hole No. LL-89-3

Target: Frequency effect anomaly of 6-7%, resistivity low, magnetic low near a sharp transition, 50 meters along strike from grab sample assays of up to 1546 ppb Au in po-rich chert horizon. Hole location was changed from the original planned position due to difficult terrain conditions.

Geology: Basalt flows with local mafic tuff intervals and common protomylonite sections. Common silicification, local biotite alteration, common disseminated pyrite-po of 0.5-1% locally to 10%.

Results: No significant assays.

Hole No. LL-89-4

Target: Frequency effect anomaly up to 6.3%, low to high resistivity transition.

Geology: Mafic volcanic flows and granodiorite with late gabbro dykes and common sections of mafic volcanic, granodiorite and felsic mylonites. Common to extensive silicification with local biotite alteration; very common 0.5-1% pyrite -locally to 3%.

Results: No significant assays.

Hole No. LL-89-5

Target: Frequency effect anomaly.

Geology: Mafic volcanic flows with granodiorite and late gabbro dykes and extensive sections of mafic volcanic, granodiorite and felsic mylonites. A fault zone occurs from 50.6 to 55.2. Common to extensive silicification, local biotite alteration and 0.5-1% pyrite - locally to 5%.

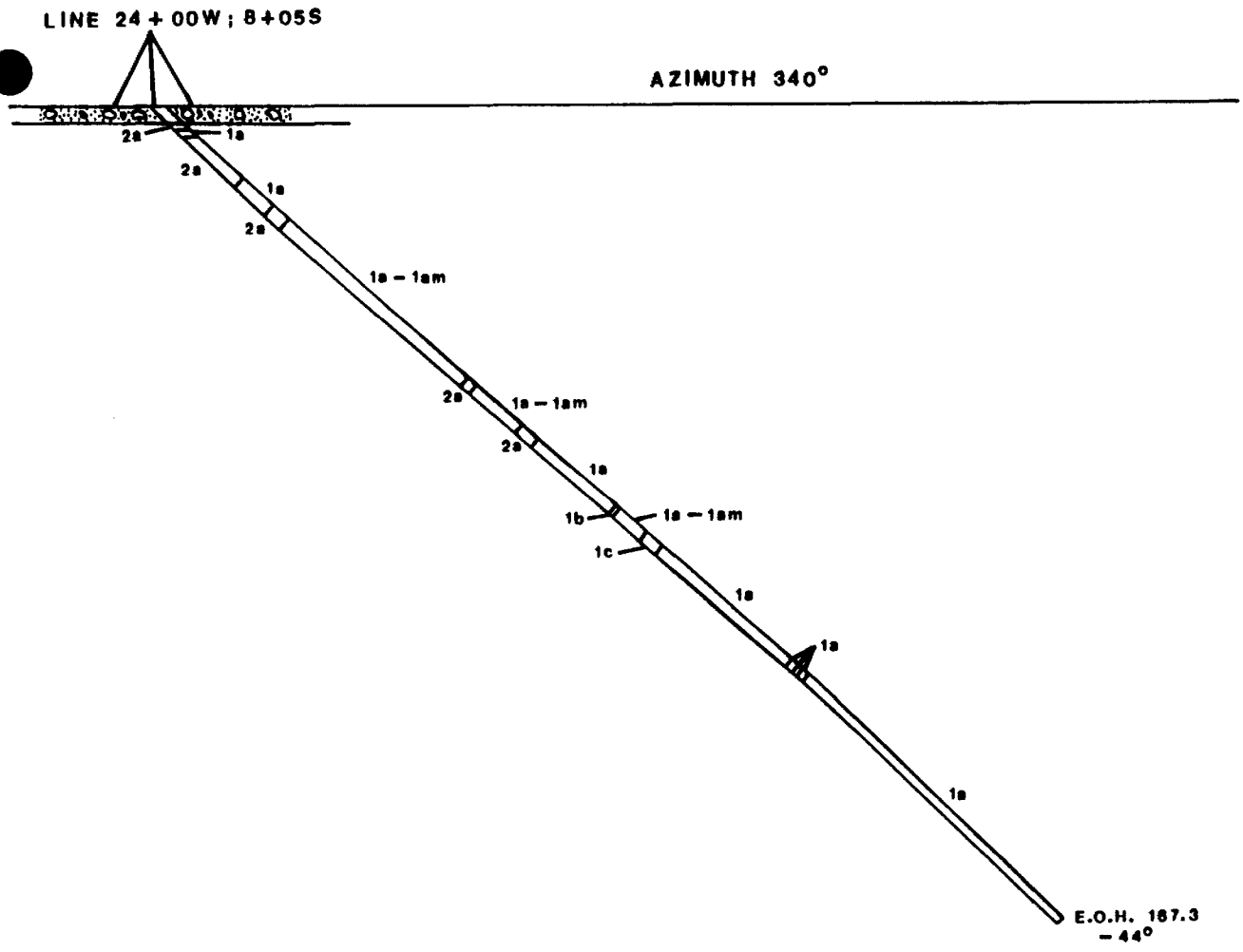
Results: No significant assays.

Hole No. LL-89-6

Target: Frequency effect anomaly up to 10.7%, resistivity low, magnetic high, grab sample assays from trenches up to 8151 ppb Au in sheared mafic volcanics and sulfide-bearing exhalites.

Geology: Tholeiitic and komatiitic basalts with interflow tuff and chert (10-15% pyrite) horizons and a 30 meter section of mafic volcanic mylonite. Common silicification, local biotite alteration and generally 0.5-1% pyrite - locally to 3%.

Results: No significant assays.



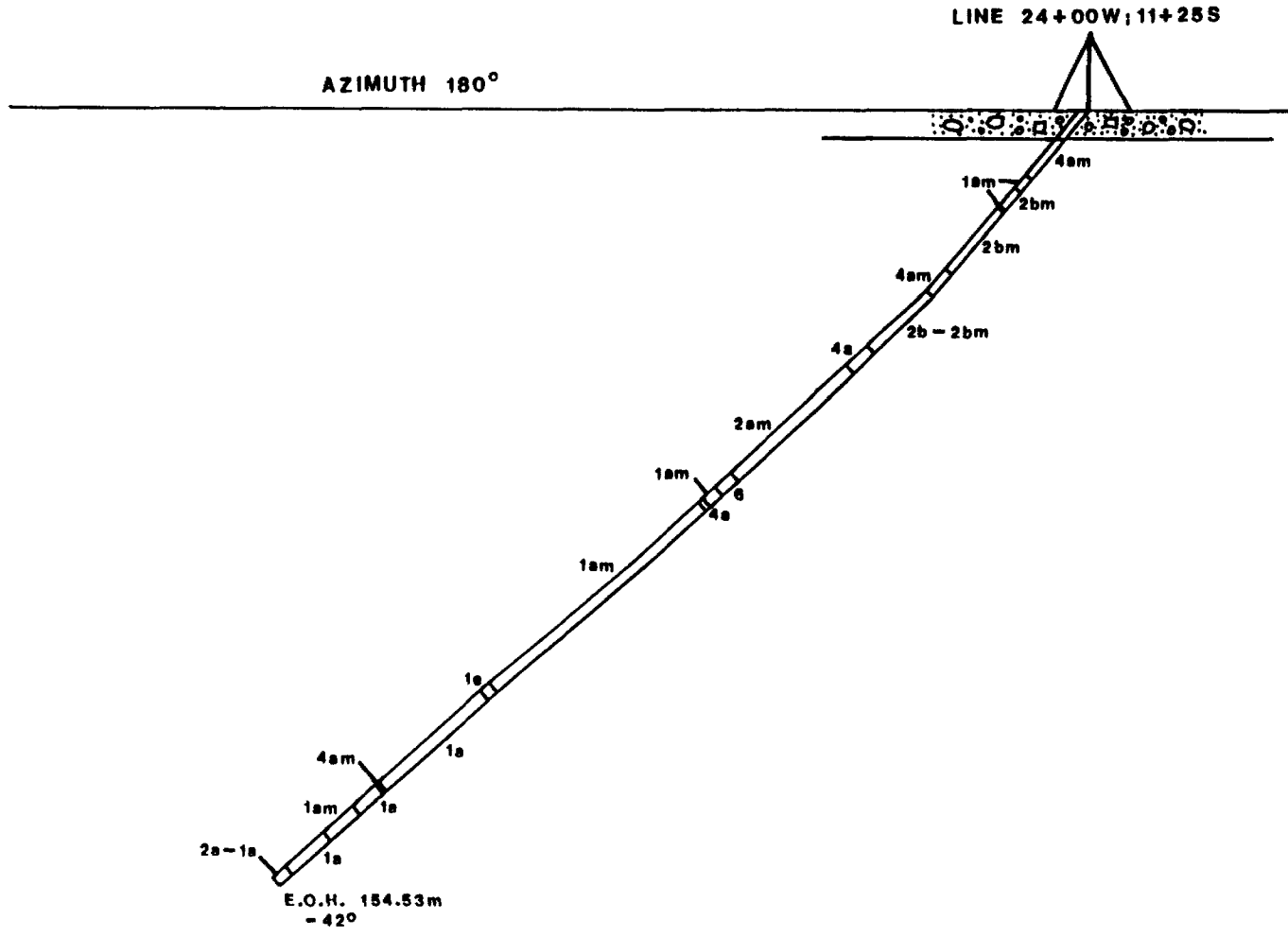
LEGEND

- 2a — GABBO
- 1a — BASALT – MAFIC VOLCANIC FLOW
- 1am — MAFIC VOLCANIC; PROTOMYLONITE
- 1b — MAFIC VOLCANIC LAPILLI TUFF
- 1c — MAFIC VOLCANIC TUFF

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-3
CROSS-SECTION

scale 1:1,000

Figure 5



LEGEND

6	FELSIC MYLONITE
4a	GRANODIORITE; BIOTITIC
4am	GRANODIORITE; PROTOMYLONITE – MYLONITE
2a	GABBRO
2b	GABBRO; FELDSPAR PORPHYRY
2bm	GABBRO; FELDSPAR PORPHYRY – MYLONITE
1a	MAFIC VOLCANIC FLOW
1am	MAFIC VOLCANIC; PROTOMYLONITE – MYLONITE
1e	EXHALITE

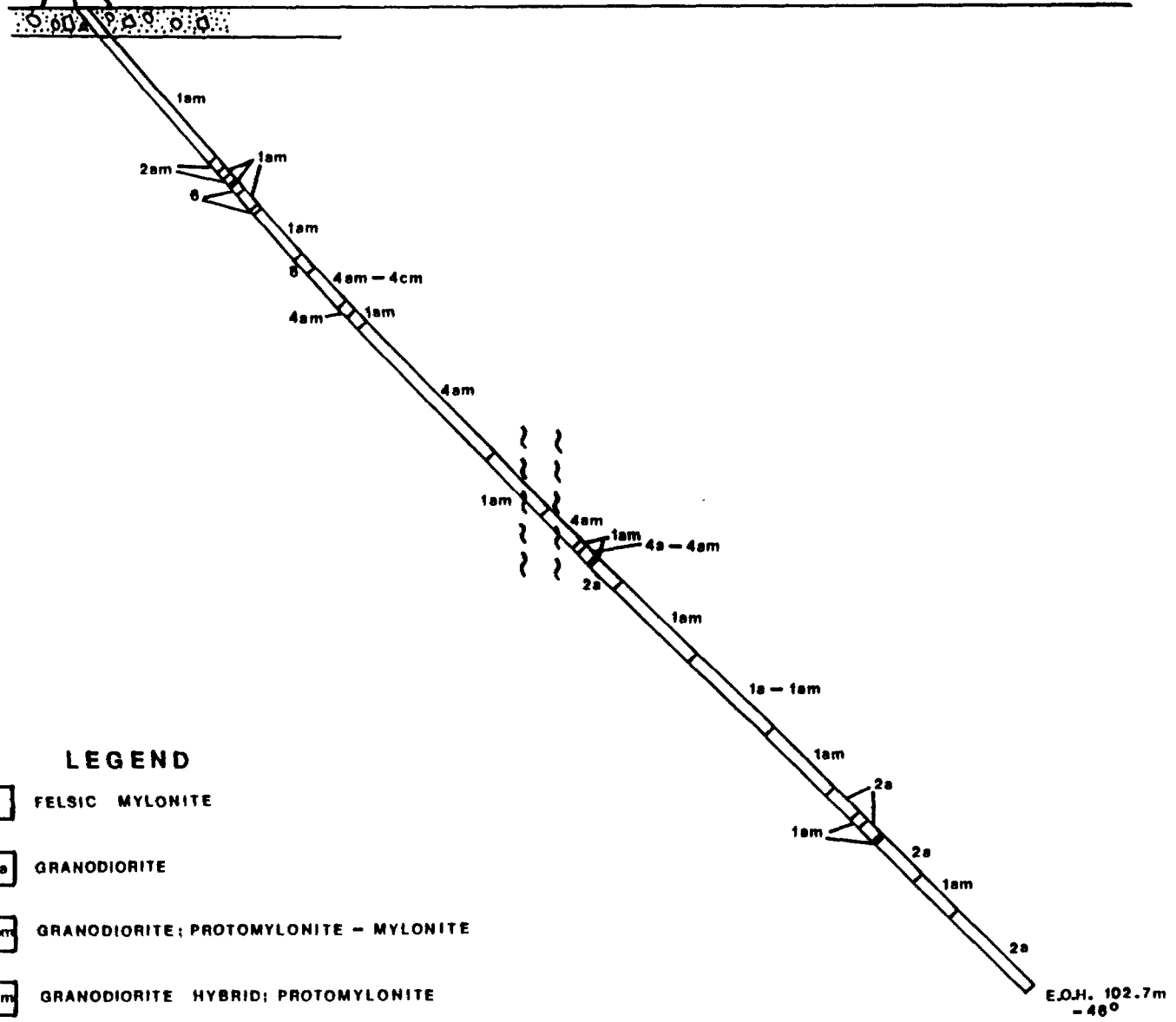
CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-4
CROSS-SECTION

scale 1:1,000

Figure 6

LINE 29+00W; 12+00S

AZIMUTH 0°



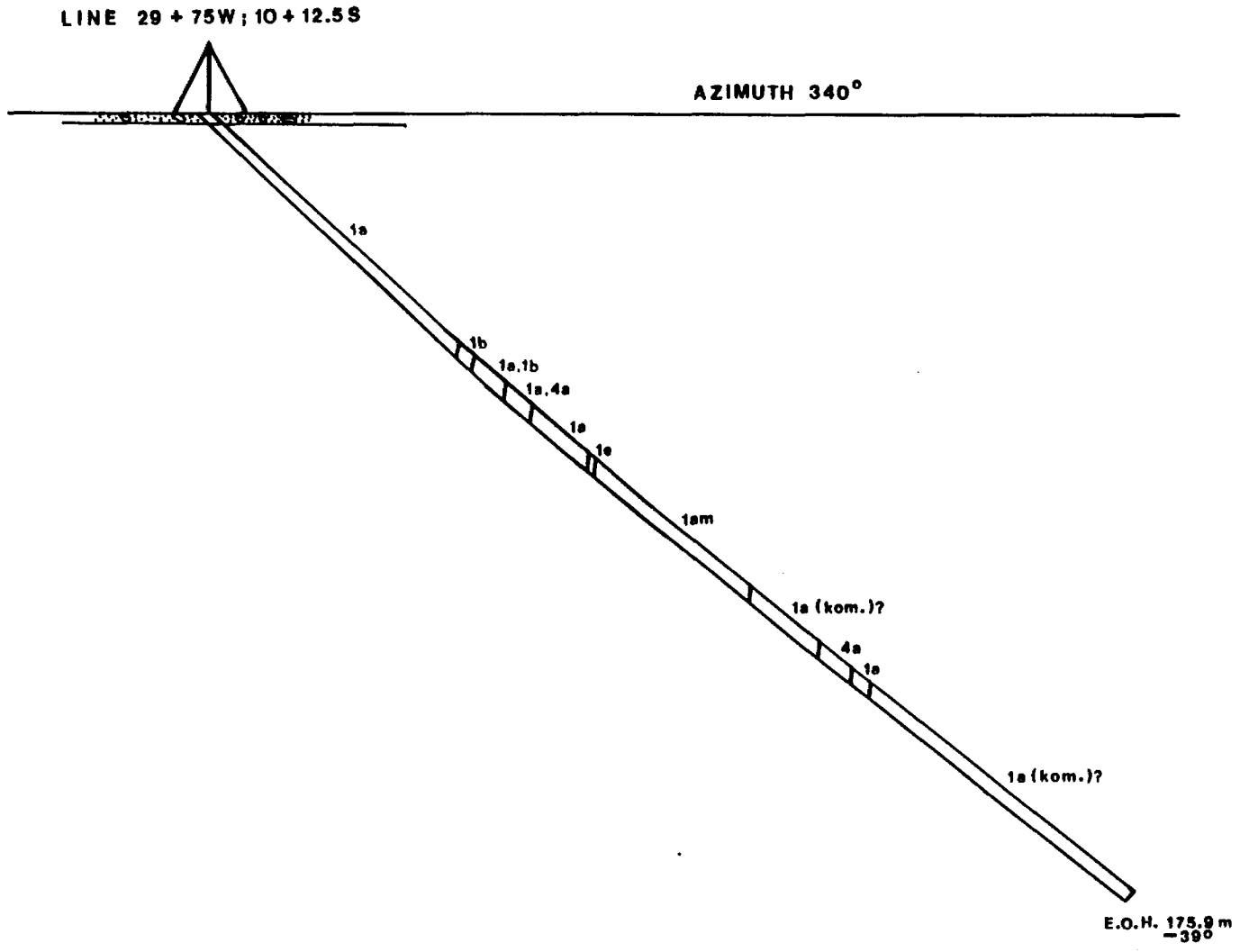
LEGEND

- 6 FELSIC MYLONITE
- 4a GRANODIORITE
- 4am GRANODIORITE; PROTOMYLONITE – MYLONITE
- 4cm GRANODIORITE HYBRID; PROTOMYLONITE
- 2a GABBRO
- 2am GABBRO; PROTOMYLONITE
- 1a MAFIC VOLCANIC FLOW
- 1am MAFIC VOLCANIC; PROTOMYLONITE – MYLONITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-5
CROSS-SECTION

scale 1:500

Figure 7



LEGEND

- 4a — GRANODIORITE
- 1a(kom.)? — BASALT – KOMATIITE ?
- 1a — BASALT
- 1am — BASALT; MYLONITE
- 1b — MAFIC TUFF
- 1e — EXHALITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-6
CROSS-SECTION

scale 1:1,000

Figure 8

Hole No. LL-89-7

Target: Frequency effect anomaly up to 5-6%, resistivity low, magnetic high, approximately 120 meters along strike from "shaft occurrence" (refer to hole 9).

Geology: Komatiite basalt flows with common mylonitic sections and local granodiorite dykes. Very common alternating sections of talc/carbonate and biotite altered mafic volcanic, common 0.5-1% pyrite - locally to 3%, local quartz veining.

Results: 109.8-110.8 : .019 oz Au/ton; 2-3% pyrite, local quartz veinlets.
115.1-116.8 : .030 oz Au/ton; 1-3% pyrite, local quartz veinlets, 10-30% biotite alteration.
141.3-142.3 : .010 oz Au/ton; 1-2% pyrite, local quartz veinlets, 5-20% biotite alteration.
152.0-153.5 : .027 oz Au/ton; 0.5-1% pyrite, local quartz veinlets, 10-30% biotite alteration.

Hole No. LL-89-8

Target: Frequency effect anomaly.

Geology: Basalt flows (tholeiite) with common mafic volcanic mylonite, minor felsic mylonite and local granodiorite dykes. Common talc/carbonate alteration with local silicification, common 0.5-1% pyrite-po - locally to 10%.

Results: 34.9-36.4 : .012 oz Au/ton; section of alternating extensive talc/carbonate and silica alteration, 2-10% pyrite-po.

Hole No. LL-89-9

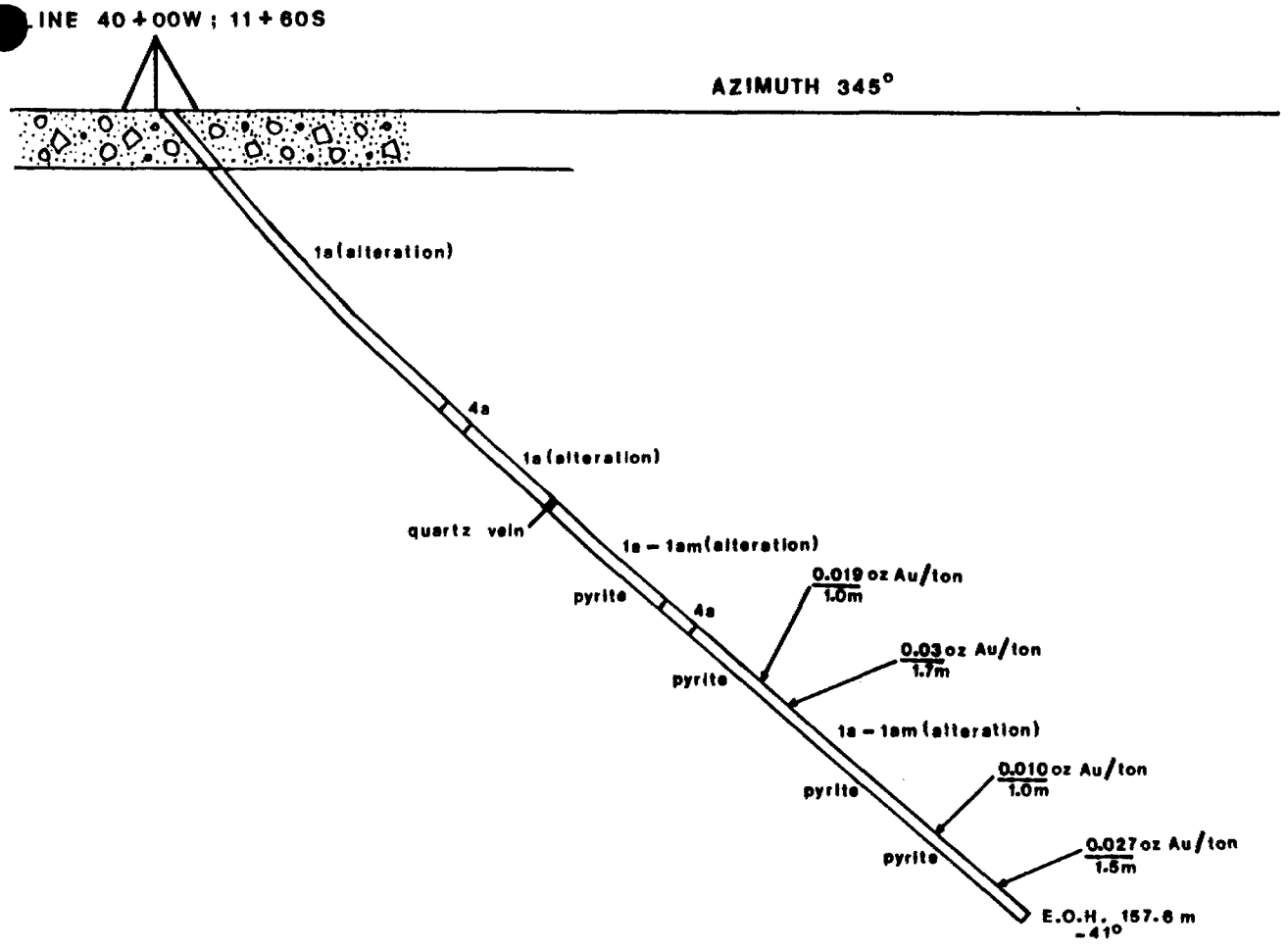
Target: Frequency effect anomaly up to 5-6%, low resistivity, magnetic high, rock sample assays up to 24,217 ppb Au from a sheared quartz vein-alteration zone in an old shaft and trenches.

Geology: Upper half of the hole consists of tholeiitic basalts with local mafic volcanic mylonites and granodiorite and diorite dykes; bottom half comprises komatiite basalt and ultramafic flows. Common talc/carbonate and biotite alteration throughout hole, local silicification, common, local sections of quartz veinlets, generally $\leq$ 0.5% pyrite - rarely to 2-3%..

Results: 35.2-36.7 : 0.205 oz Au/ton; local silicification, minor grey quartz veinlets, patches of reddish-brown biotite alteration, 0.5% pyrite, basalt flow host.

Hole No. LL-89-10

Target: Frequency effect anomaly up to 5-6%, low - moderate resistivity, weak magnetic high, grab sample assays up to 1641 ppb Au.



LEGEND

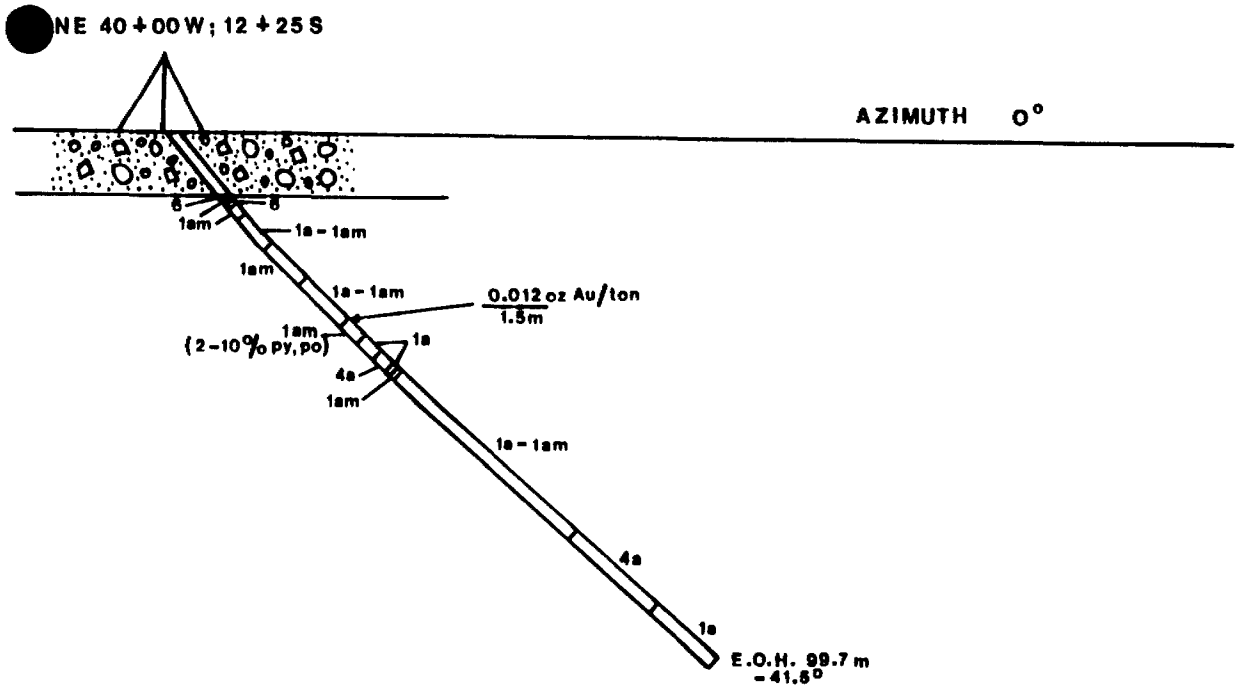
- 4a — GRANODIORITE ; BIOTITIC
- 1a — BASALT FLOW
- 1am — BASALT; PROTOMYLONITE – MYLONITE

Assay – ie. $\frac{0.019\text{oz Au/ton}}{1.1\text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-7
CROSS-SECTION

scale 1:1,000

Figure 9



LEGEND

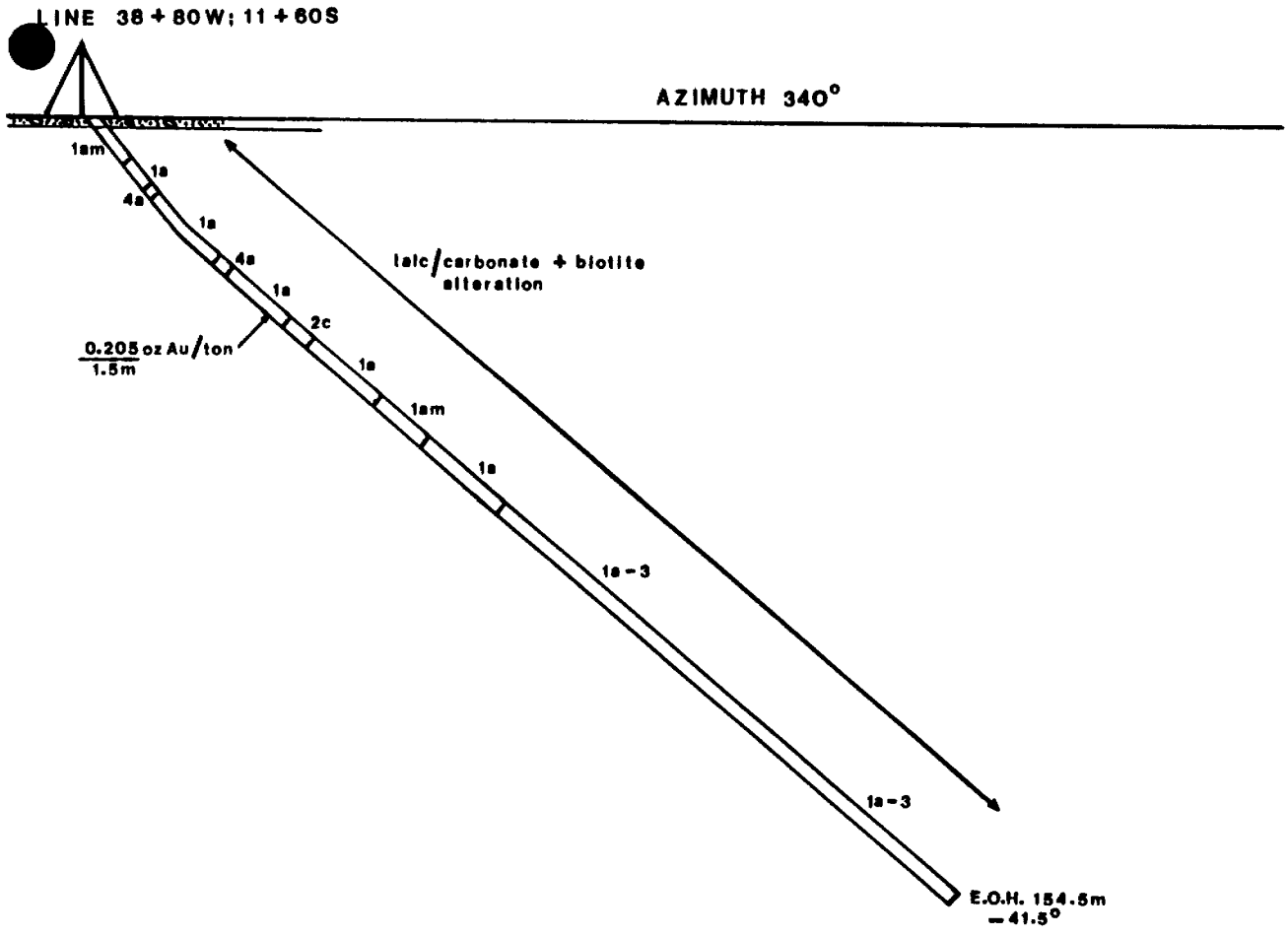
- 6 — FELSIC MYLONITE
- 4a — GRANODIORITE
- 1a — BASALT FLOW
- 1am — MAFIC VOLCANIC PROTOMYLONITE - MYLONITE

Assay - Ie. $\frac{0.012 \text{ oz Au/ton}}{1.5 \text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-8
CROSS-SECTION

scale 1:1,000

Figure 10



LEGEND

- 4a GRANODIORITE
- 3 BASALT - ULTRAMAFIC FLOW
- 2c DIORITE
- 1a BASALT FLOW
- 1am MAFIC VOLCANIC MYLONITE

Assay - ie. $\frac{0.205 \text{oz Au/ton}}{1.5 \text{m}}$

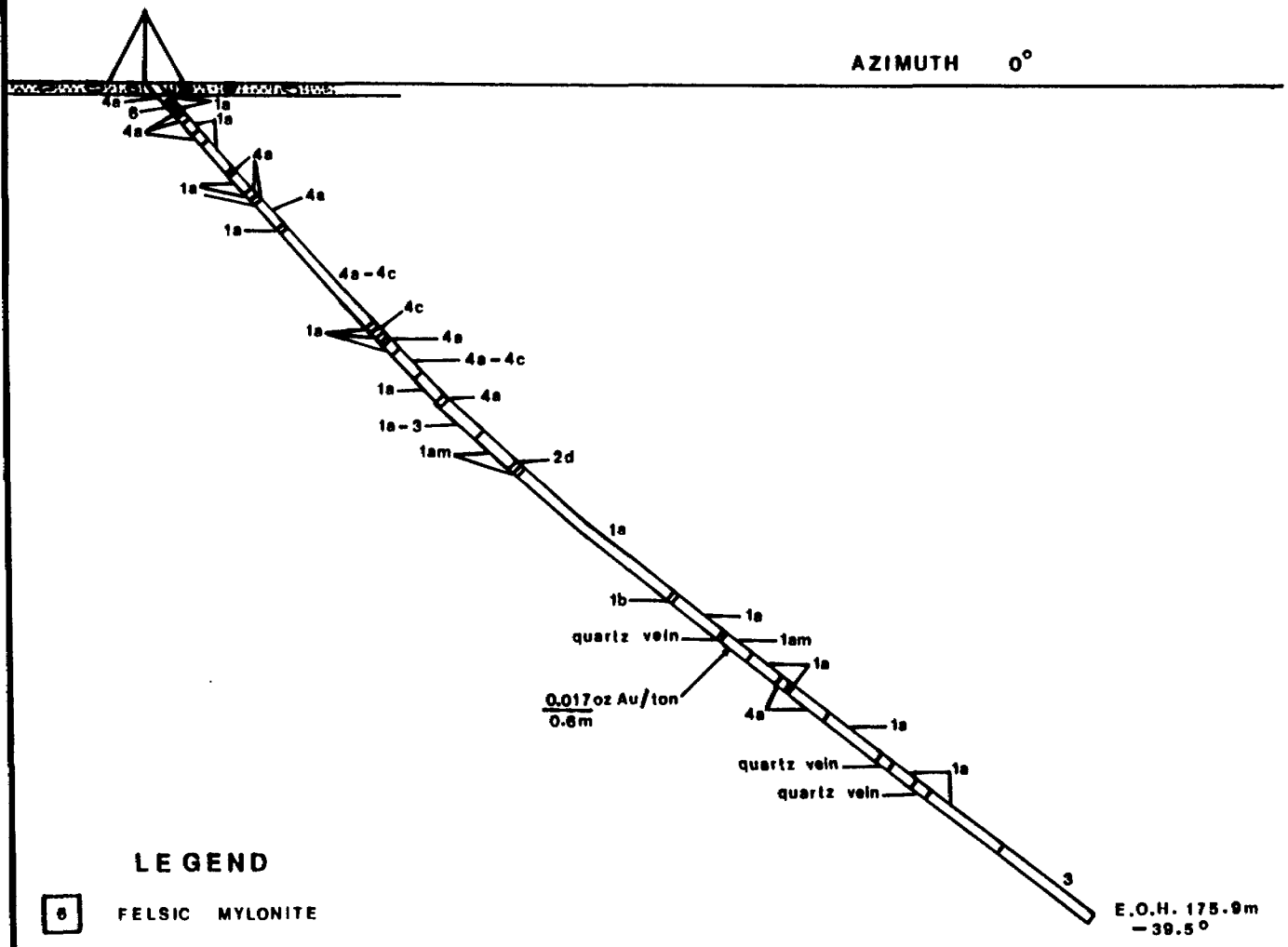
CYPRUS GOLD LTD
LAIRD LAKE PROPERTY
D.D.H. LL-89-9
CROSS-SECTION

scale 1:1,000

Figure 11

LINE 37+00W; 11+00S

AZIMUTH 0°



LEGEND

- 6 — FELSIC MYLONITE
- 4a — GRANODIORITE; BIOTITIC
- 4c — GRANODIORITE; BASALT HYBRID
- 3 — ULTRAMAFIC FLOW
- 2d — GABBRO; PYROXENE PORPHYRY
- 1a — BASALT FLOW
- 1am — MAFIC VOLCANIC; PROTOMYLONITE – MYLONITE
- 1b — BASALT; LAPILLI TUFF

Assay – ie. $\frac{0.017\text{oz Au/ton}}{0.6\text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-10
CROSS-SECTION

scale 1:1,000

Figure 12

Geology: Mixed succession of tholeiitic basalt flows with minor tuff, komatiitic basalt-ultramafic flows, granodiorite, late gabbro dykes and local units of mafic volcanic and felsic mylonite. Common talc/carbonate alteration, local biotite alteration, local silicification, local grey quartz veining, occasional exhalite horizons with 2-10% pyrite-po, generally $\leq$ 0.5-1% pyrite-po.

Results: 112.9-113.5 : .017 oz Au/ton; 50-100% silicification, 5-10% pyrite-po as disseminations and stringers, possible chert exhalite.

Hole No. LL-89-11

Target: Frequency effect anomaly up to 8-9%, high to low resistivity transition.

Geology: Mafic volcanic mylonite and granodiorite mylonite with minor felsic mylonite. Generally 0.5-1% pyrite - locally to 15%. Interval 38.2-54.0 generally 1-15% pyrite as disseminations, stringers and bands parallel to foliation. Very common silicification, local biotite alteration, local quartz veinlets-stringers.

Results: 42.5-43.5 : .010 oz Au/ton; 10-15% banded pyrite in granodiorite mylonite unit.
43.5-44.8 : .245 oz Au/ton; granodiorite mylonite with 1-2% pyrite, quartz stringers, pyrite and quartz stringers coexist along foliation planes, extensive silicification.

Hole No. LL-89-12

Target: Frequency effect anomaly up to 13%, resistivity low, weak magnetic high.

Geology: Tholeiite and komatiite basalts, granodiorite, gabbro and hornblendite. Extensive faulting through middle part of hole. Local silicification, common talc alteration in komatiite sections, generally 0.5% pyrite but locally up to 10%.

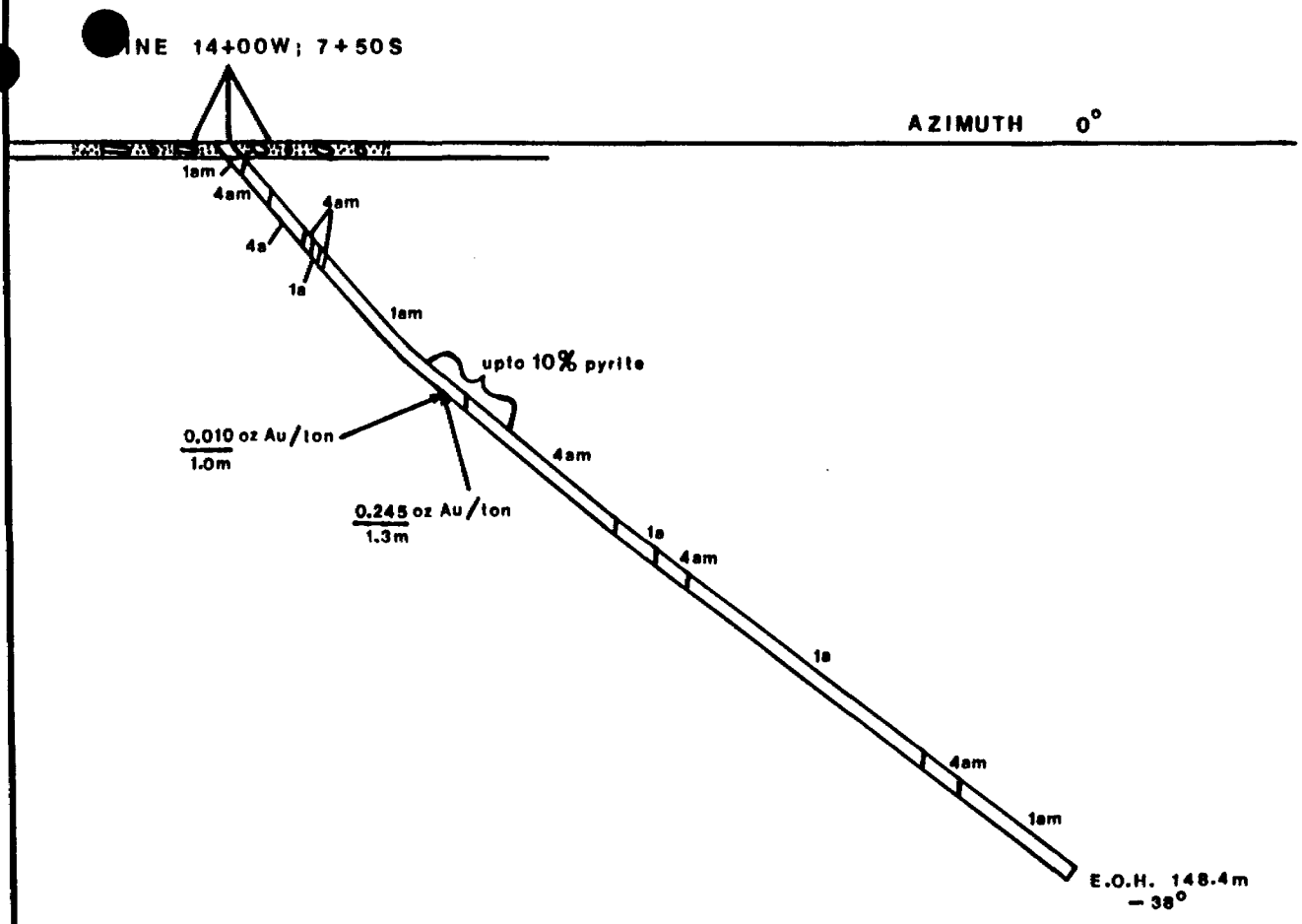
Results: No significant assays.

Hole No. LL-89-13

Target: Thick felsic mylonite section with a grab sample assay of 394 ppb Au.

Geology: Relatively undeformed basalt flows, granodiorite and gabbro through the upper one third and mafic volcanic mylonite and felsic mylonite over the bottom section of the hole. Mylonites are generally silicified with 0.5-1% pyrite - rarely to 5% and common sections of minor quartz veinlets and stringers.

Results: No significant assays.



LEGEND

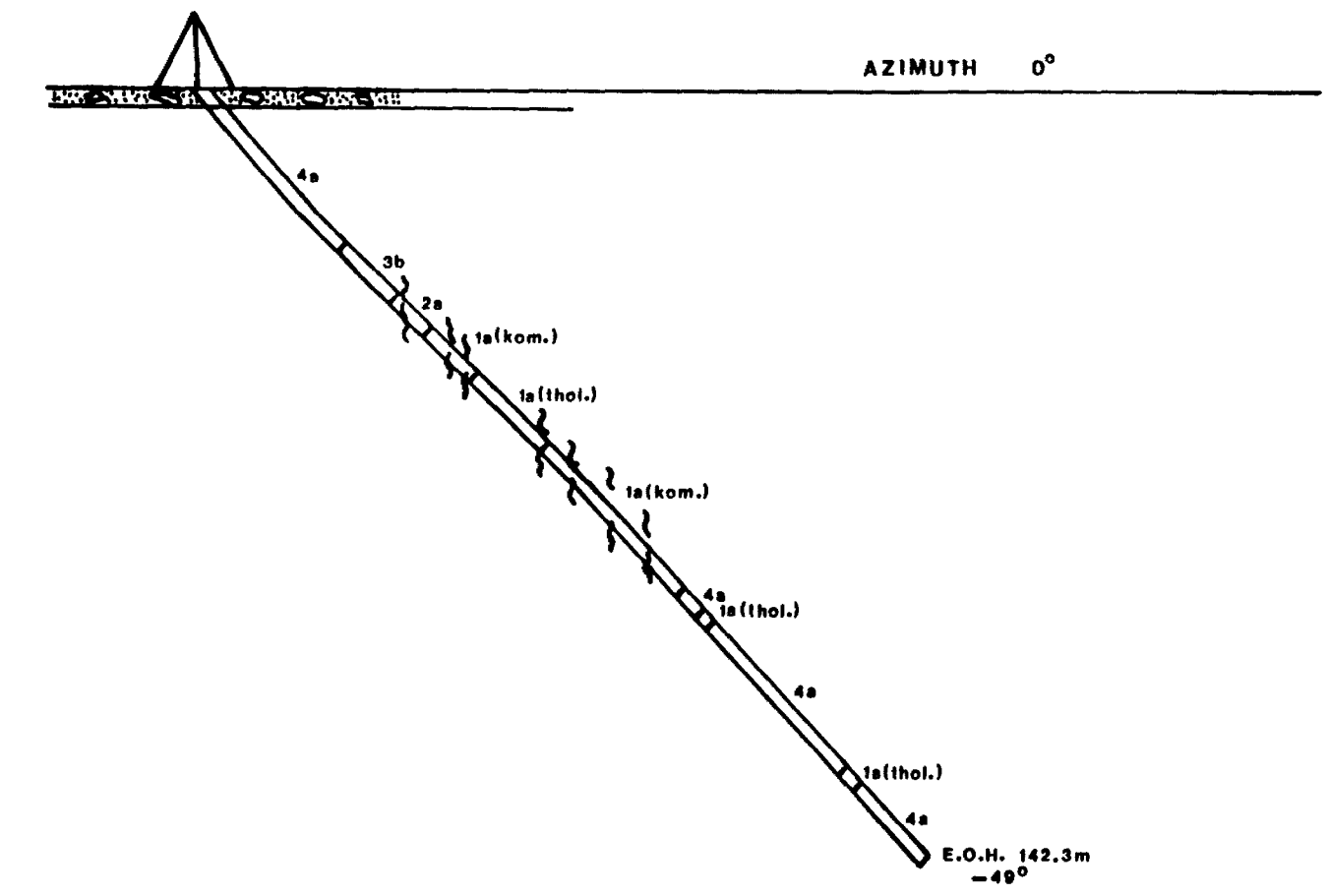
- 4a — GRANODIORITE
- 4am — GRANODIORITE; MYLONITE
- 1a — BASALT FLOW
- 1am — BASALT; MYLONITE

Assay - ie. 0.010oz Au/ton / 0.6m

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-11
CROSS-SECTION

scale 1:1,000

Figure 13



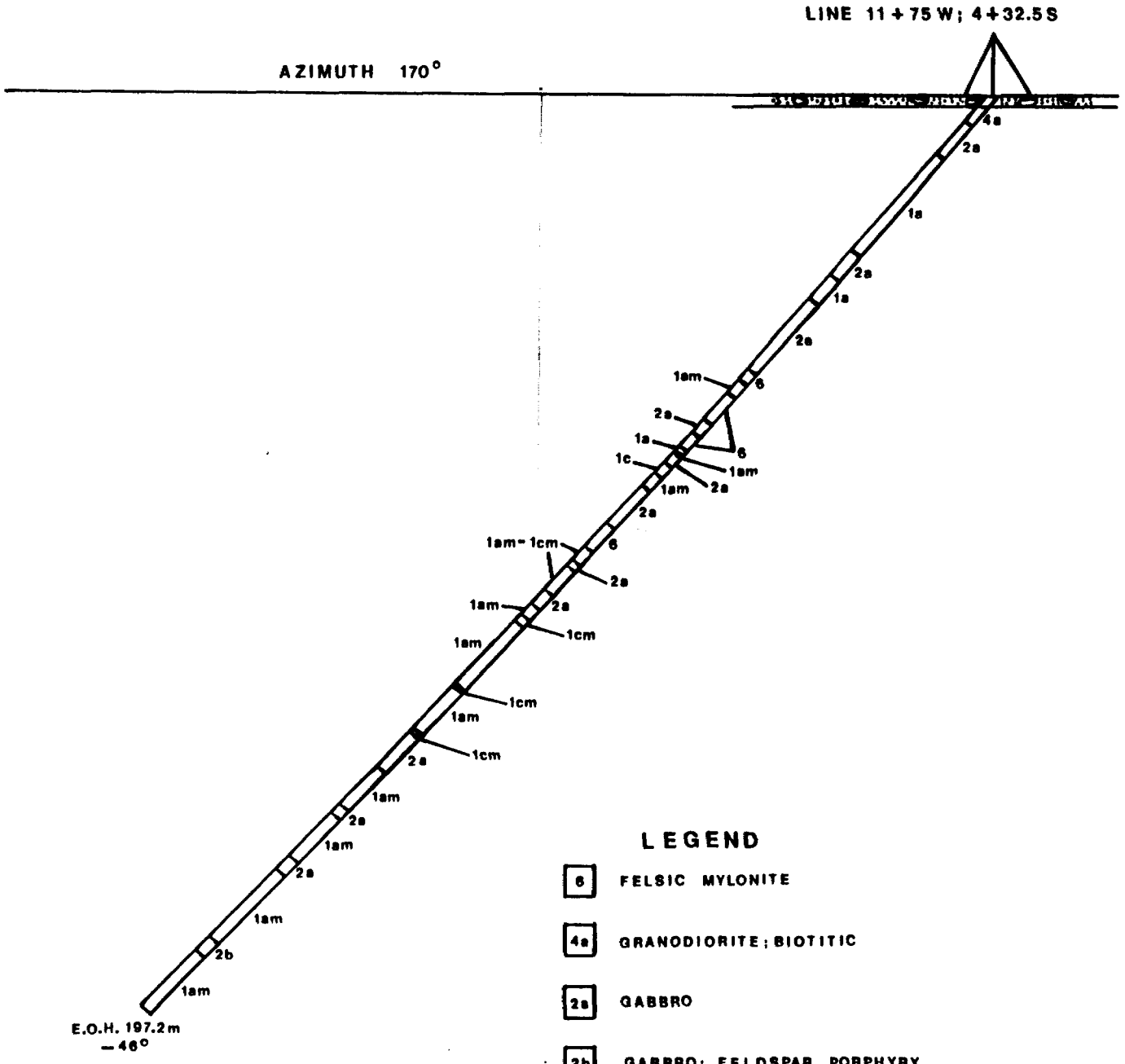
LEGEND

- 4a — GRANODIORITE; BIOTITIC
- 3b — HORNBLENDITE
- 2a — GABBRO
- 1a(kom.) — BASALT FLOW; KOMATIITE(?)
- 1a(thol.) — BASALT FLOW; THOLEIITE(?)

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-12
CROSS-SECTION

scale 1:1,000

Figure 14



LEGEND

6	FELSIC MYLONITE
4a	GRANODIORITE; BIOTITIC
2a	GABBRO
2b	GABBRO; FELDSPAR PORPHYRY
1a	BASALT FLOW
1am	MAFIC VOLCANIC PROTOMYLONITE – MYLONITE
1c	BASALT TUFF
1cm	MAFIC VOLCANIC TUFF PROTOMYLONITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-13
CROSS-SECTION

scale 1:1,000

Figure 15

Hole No. LL-89-14

Target: Frequency effect anomaly up to 13%, resistivity low, magnetic high.
Geology: Komatiite basalt-ultramafic flows and tholeiite basalt flows with granodiorite, diorite and hornblendite dykes. Local biotite or talc alteration in volcanic units, generally $\leq$ 0.5% pyrite - locally to 3%, common fault zones in central portion of hole.
Results: 28.5-29.9 : .010 oz Au/ton; 15% quartz stringers, biotite alteration.

Hole No. LL-89-15

Target: Frequency effect up to 7%, resistivity low, weak magnetic high, rock grab samples from trenches up to 125 ppb Au.
Geology: Tholeiitic basalt with minor komatiite basalt and common mafic volcanic mylonite. Common silicification, local biotite alteration, generally 0.5% pyrite, locally to 3%, common silica veinlets and local grey quartz veins-veinlets.
Results: No significant assays.

Hole No. LL-89-16

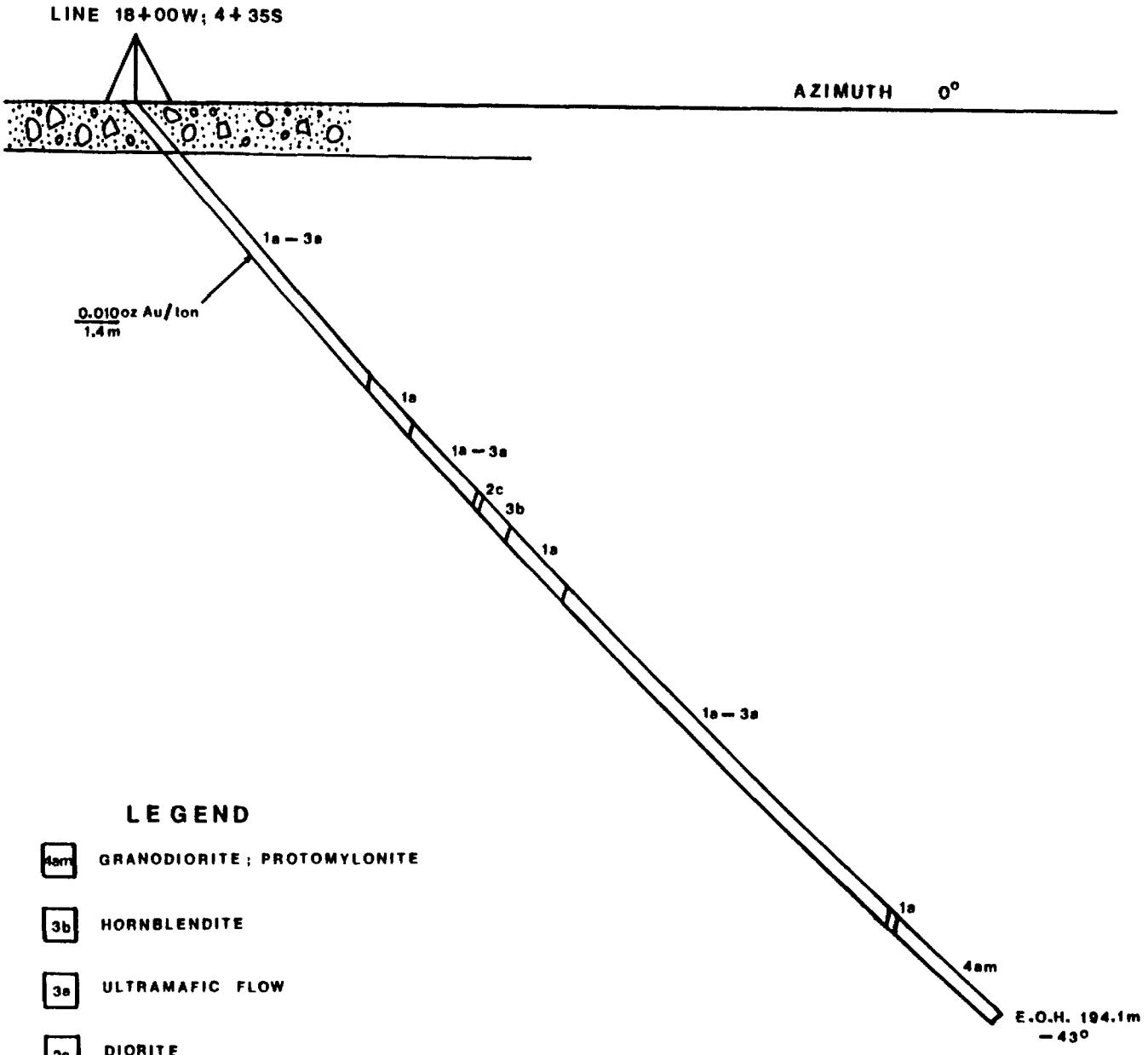
Target: Deep hole under gold intersection (0.205 oz Au/ton across 1.5 meters) in hole 9.
Geology: Basalt flows and mafic volcanic mylonite with minor felsic mylonite and common intrusions of granodiorite, diorite and gabbro. Very common silica and biotite alteration, minor chlorite and local carbonate alteration, generally $\leq$ 0.5% pyrite - locally to 2%.
Results: No significant assays.

Hole No. LL-89-17

Not drilled.

Hole No. LL-89-18

Target: Deep hole approximately 100 meters along strike to the east from hole 9.
Geology: Mafic volcanic mylonite with minor basalt flows and dykes of granodiorite and gabbro. Common silica and local carbonate alteration, local biotite and minor chlorite alteration, generally $\leq$ 0.5% pyrite - up to 3%, common silica or quartz veinlets.
Results: 58.45-59.4 : .013 oz Au/ton; 50-100% silicification, up to 3% pyrite.
66.9-68.4 : .012 oz Au/ton; 50-100% silicification, up to 3% pyrite, local grey quartz veinlets.
137.5-138.7 : .029 oz Au/ton; 20-40% silicification,



LEGEND

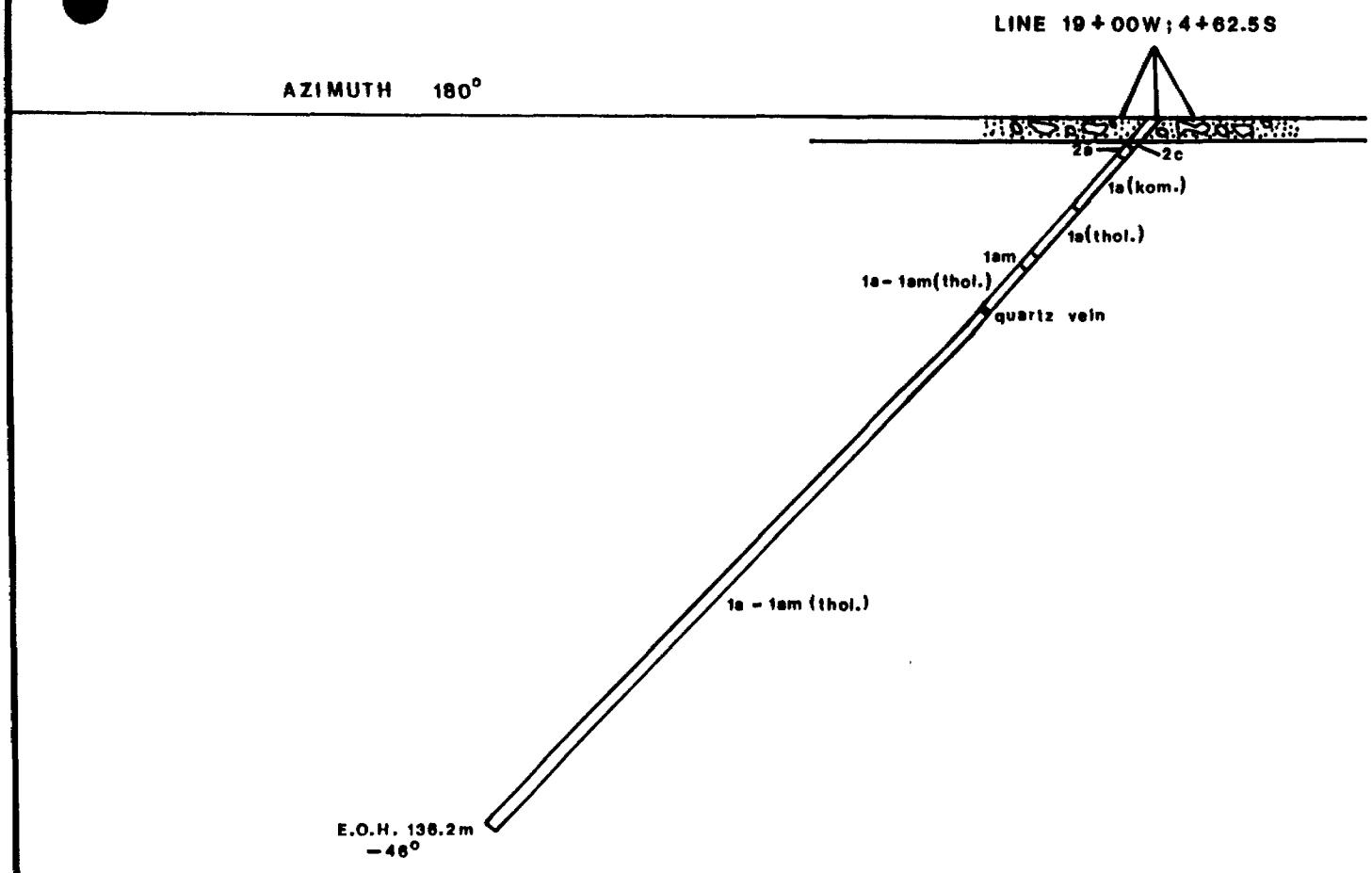
- 4am — GRANODIORITE ; PROTOMYLONITE
- 3b — HORNBLENDITE
- 3a — ULTRAMAFIC FLOW
- 2c — DIORITE
- 1a — BASALT

Assay - ie. $\frac{0.010\text{oz Au/ton}}{1.4\text{m}}$

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-14
CROSS-SECTION

scale 1:1,000

Figure 16



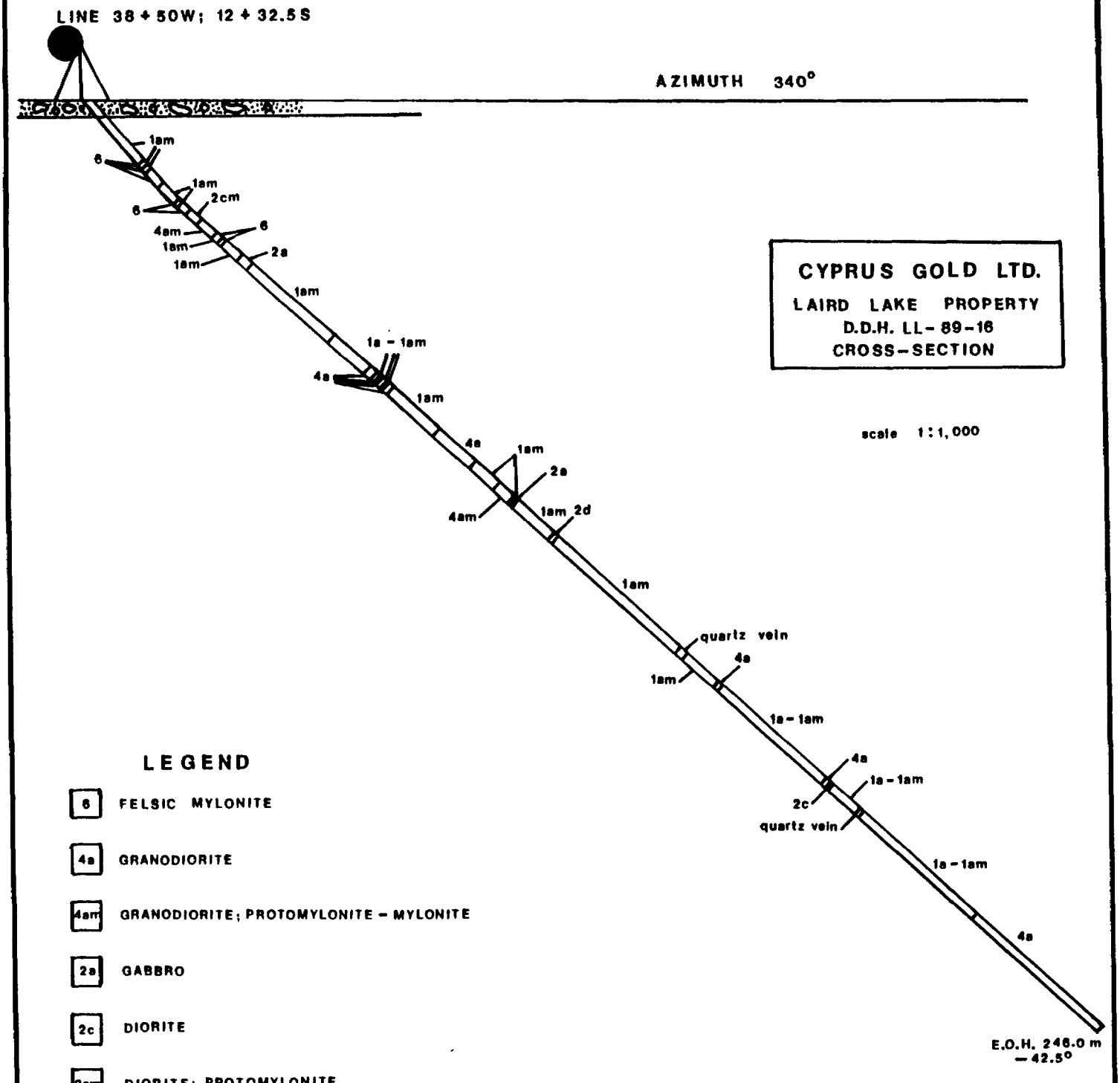
LEGEND

- 2a GABBRO
- 2c DIORITE
- 1a(kom.) BASALT FLOW; KOMATIITE (?)
- 1a(thol.) BASALT FLOW; THOLEIITE (?)
- 1am MAFIC VOLCANIC PROTOMYLONITE – MYLONITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-15
CROSS-SECTION

scale 1:1,000

Figure 17



CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-16
CROSS-SECTION

scale 1:1,000

LEGEND

- 6 FELSIC MYLONITE
- 4a GRANODIORITE
- 4am GRANODIORITE; PROTOMYLONITE - MYLONITE
- 2a GABBRO
- 2c DIORITE
- 2cm DIORITE; PROTOMYLONITE
- 2d GABBRO; PYROXENE PORPHYRY
- 1a BASALT FLOW
- 1am MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE

"GRANITIC" QUARTZ VEIN

Figure 18

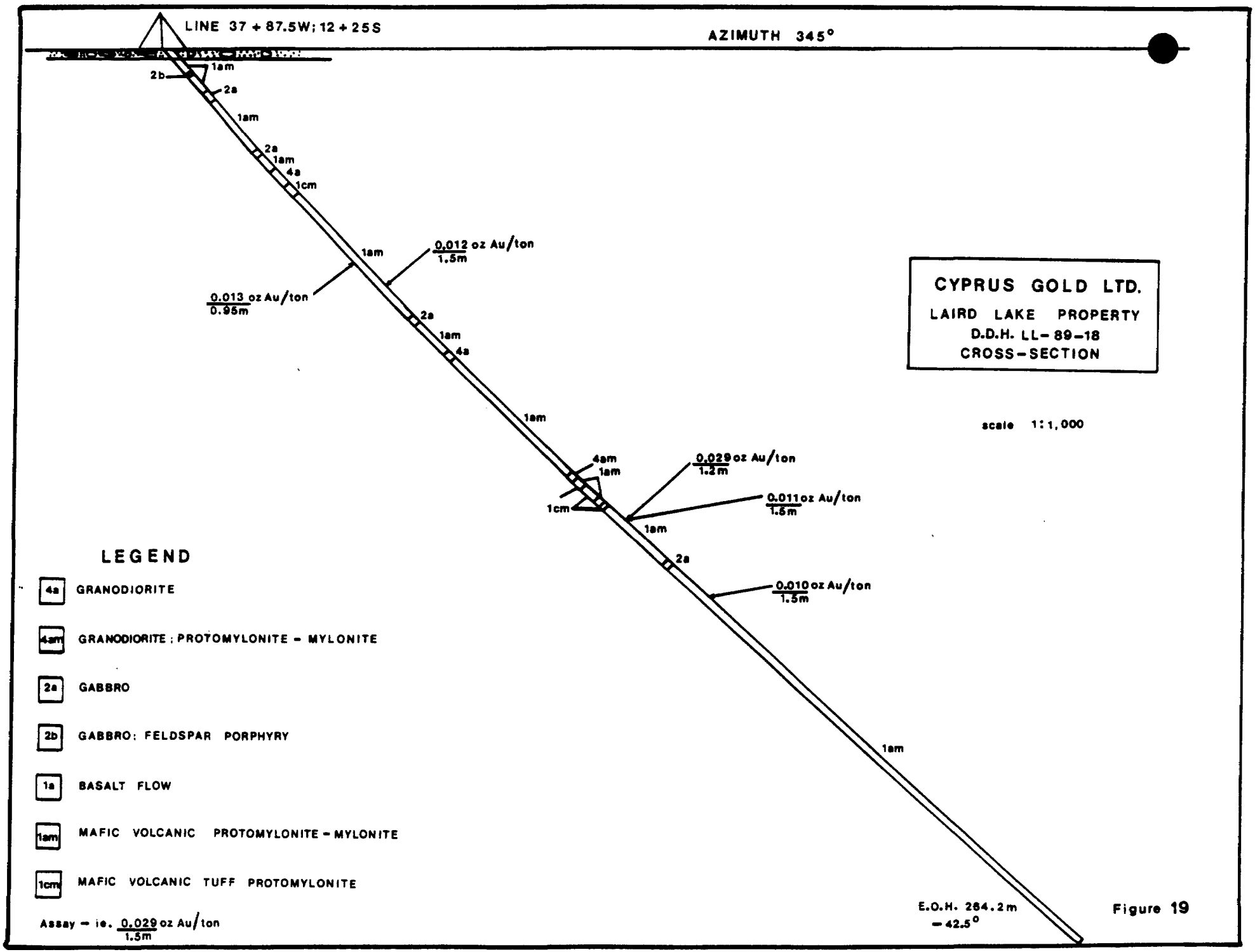
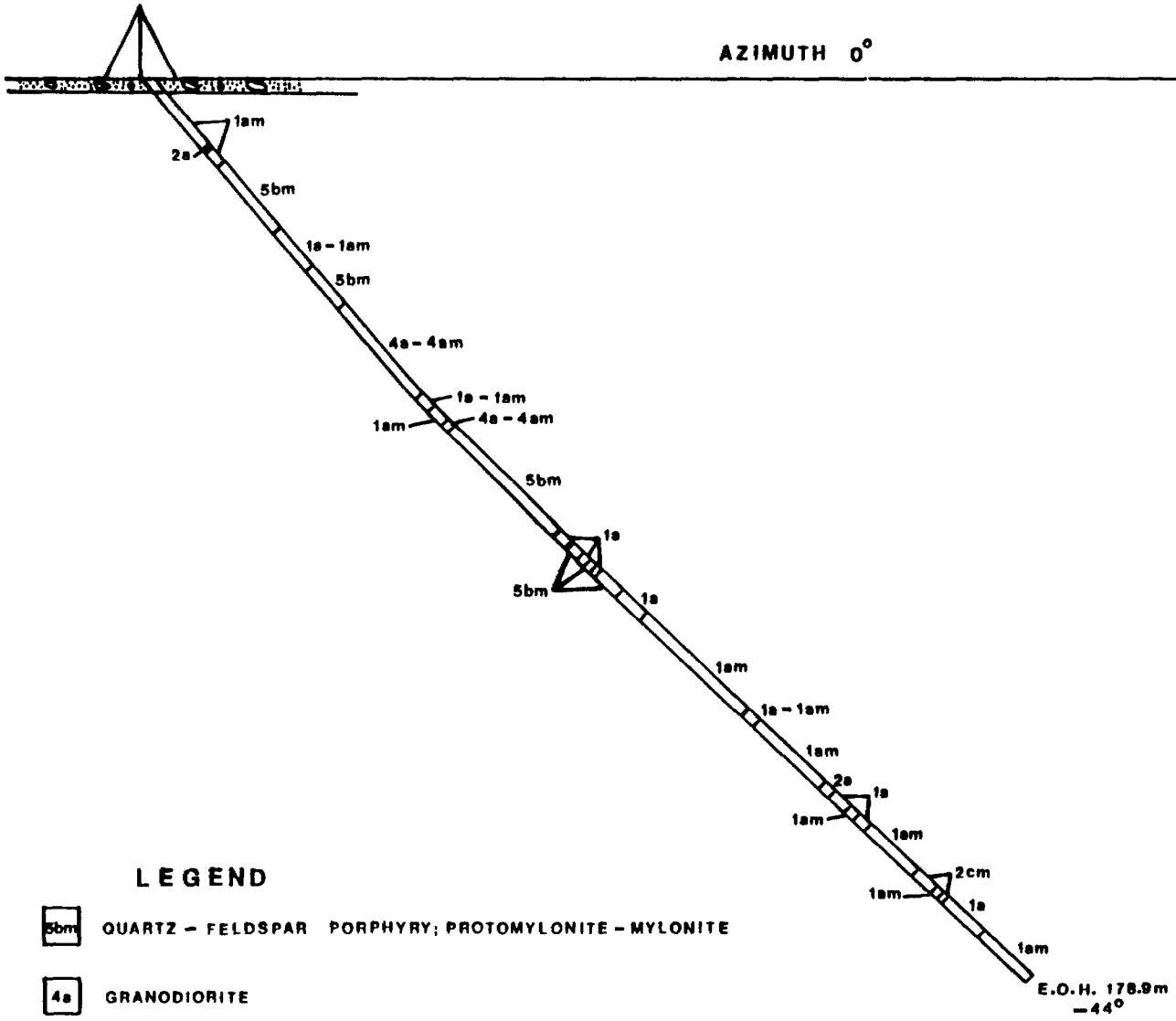

LINE 37 + 87.5W; 12 + 25S
AZIMUTH 345°
1am
2b
2a
1am
2a
1am
4a
1cm
1am
0.012 oz Au/ton
1.5m
0.013 oz Au/ton
0.95m
2a
1am
4a
1am
4am
1am
1cm
0.029 oz Au/ton
1.2m
0.011 oz Au/ton
1.5m
1am
2a
0.010 oz Au/ton
1.5m
1am
CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-18
CROSS-SECTION
scale 1:1,000
LEGEND
4a GRANODIORITE
4am GRANODIORITE ; PROTOMYLONITE - MYLONITE
2a GABBRO
2b GABBRO; FELDSPAR PORPHYRY
1a BASALT FLOW
1am MAFIC VOLCANIC PROTOMYLONITE - MYLONITE
1cm MAFIC VOLCANIC TUFF PROTOMYLONITE
Assay - ie. 0.029 oz Au/ton
1.5m
E.O.H. 284.2 m
- 42.5°

Figure 19

LINE 13+00W; 7+35S

AZIMUTH 0°



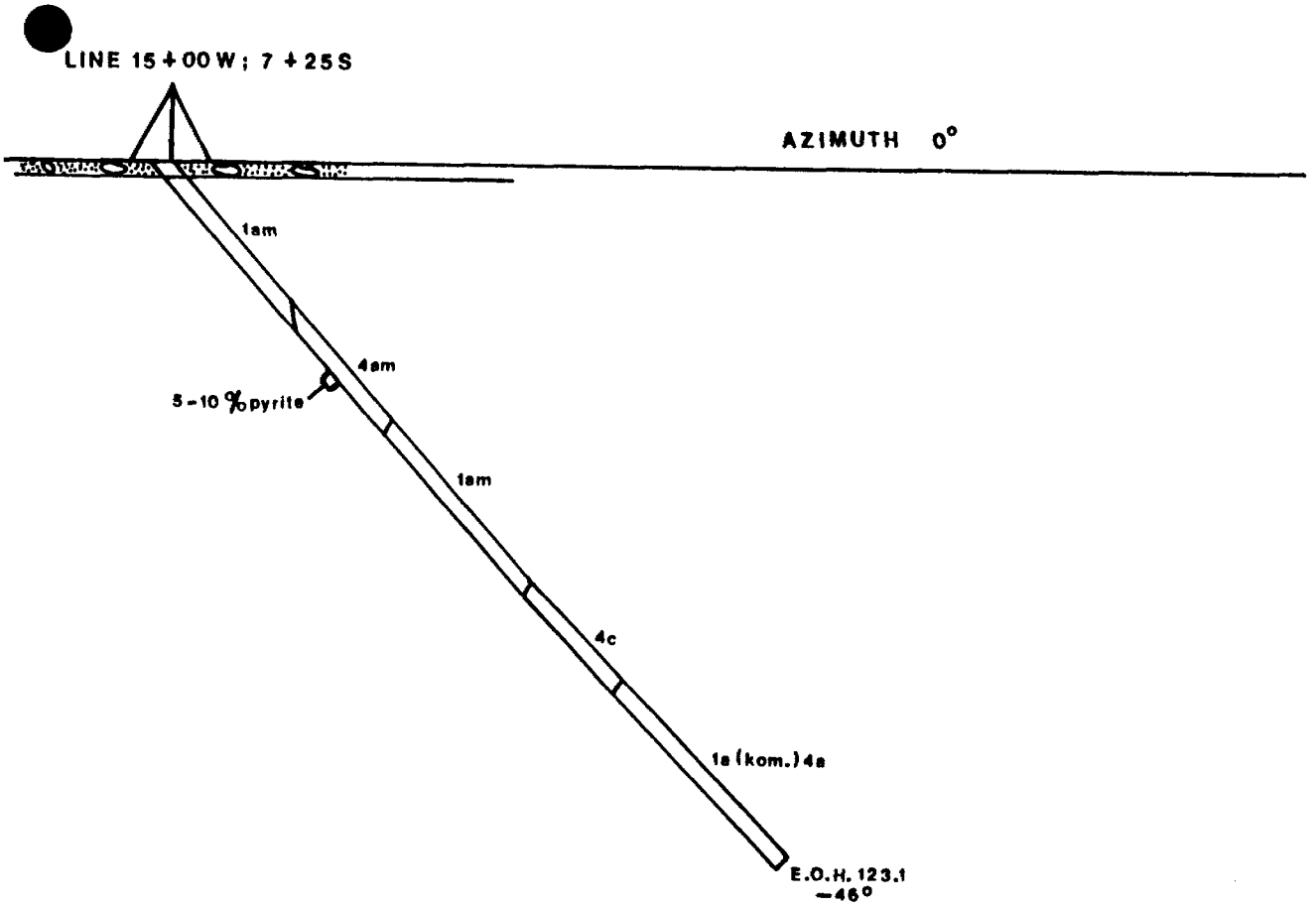
LEGEND

- 5bm — QUARTZ – FELDSPAR PORPHYRY; PROTOMYLONITE – MYLONITE
- 4a — GRANODIORITE
- 4am — GRANODIORITE; PROTOMYLONITE
- 2a — GABBRO
- 2cm — DIORITE; PROTOMYLONITE
- 1a — BASALT FLOW
- 1am — MAFIC VOLCANIC; PROTOMYLONITE – MYLONITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-19
CROSS-SECTION

scale 1:1,000

Figure 20



LEGEND

1a(kom.) 4a	HYBRID: BASALT (KOMATIITE ?) WITH GRANODIORITE CONTAMINATION
4c	HYBRID: BASALT WITH GRANODIORITE CONTAMINATION
4am	GRANODIORITE; MYLONITE
1am	BASALT; MYLONITE

CYPRUS GOLD LTD.
LAIRD LAKE PROPERTY
D.D.H. LL-89-20
CROSS-SECTION

scale 1:1,000

Figure 21

10-50% biotite alteration, 1% silica veinlets.
138.7-140.2 : .011 oz Au/ton; banded chlorite, biotite, carbonate alteration, < 1% silica veinlets, 0.5-3% pyrite-po.
158.4-159.9 : .010 oz Au/ton; biotite, carbonate, chlorite banded alteration.

Hole No. LL-89-19

Target: Frequency effect anomaly about 100 meters along strike to the east of the hole 11 gold intersection (0.245 oz gold/ton across 1.3 meters).
Geology: Mylonitic mafic volcanic, granodiorite and quartz-feldspar porphyry. Generally silicified with -.5-1% pyrite - locally to 10%. Interval 16.6-17.45 - 3 to 10% pyrite as stringers and bands parallel to the foliation. Local biotite alteration, local quartz or silica veinlets.
Results: No significant assays.

Hole No. LL-89-20

Target: Frequency effect anomaly about 100 meters along strike to the west from the hole 11 intersection.
Geology: Upper half of the hole consists of mylonitized mafic volcanic and granodiorite with the lower half comprising relatively undeformed komatiitic basalt and granodiorite. Mylonitized section generally silicified with local biotite alteration and local quartz veinlets and stringers; generally 0.5-1% pyrite locally up to 10%. Intervals 23.4-28.4 : 1-3% pyrite; 35.1-37.3 : 5-10% pyrite.
Results: No significant assays.

CONCLUSIONS AND RECOMMENDATIONS

The drill program adequately examined the known gold occurrences and the selected geophysical anomalies on the property with one exception. A well-defined I.P./resistivity anomaly with coincident high magnetics on the northwest corner of Laird Lake was not drilled due to inaccessibility because of the poor lake ice conditions.

Two "economic" gold intersections were encountered in the drilling: 0.205 oz gold per ton across 1.5 meters in hole LL-89-9 and 0.245 oz gold per ton across 1.3 meters in hole LL-89-11.

A number of generally low grade and inconsistent gold-bearing zones were revealed by holes 7, 8, 9, 10, 16 and 18 in the area of lines 37+00W to 40+00W. Holes 16 and 18 were deep holes that were

drilled respectively under hole 9 and about 100 meters to the east along strike. The mineralization in the zones generally comprises quartz veinlets and stringers in altered and sheared mafic volcanics. The 0.205 oz gold per ton intersection in hole 9 generally correlates to a zone of .010 oz Au/ton/1.5 meters, .011 oz Au/ton/1.5 meters and .029 oz Au/ton/1.2 meters in Hole 18. Hole 16 did not intersect the zone. The "shaft occurrence" was not encountered in holes 9 or 16 but a zone of .030 oz Au/ton/1.7 meters and .019 oz Au/ton/1.0 meter in hole 7 may correlate with it.

The mineralization in the area of lines 37+00W to 40+00W has been adequately examined and appears to be too inconsistent to warrant further work. This does not rule out the possibility of better mineralization to the west along strike.

The 0.245 oz gold per ton intersection in hole 11 occurs in a pyritic, silicified granodiorite mylonite unit with narrow quartz veinlets and stringers in a much wider section of pyritic (up to 15%) mylonite. Holes 19 and 20, which were drilled respectively 100 meters along strike to the east and west, both intersected the pyritic zone but there were no associated gold values. The I.P. survey was not carried out to the east of this area due to the presence of Arrowhead Lake. The pyritic zone could continue to at least L8+00W where a weak I.P. anomaly was found to the east of the lake, approximately on strike with the known pyritic zone (L13W-15W).

A limited program of bulldozer trenching is recommended to expose the pyritic zone at 15 meter (50 foot) intervals along the trend in the L13+00W to L15+00W area and to the east and west if warranted. Access to the area is excellent and the overburden thickness in the three drill holes ranged from 1.6 to 2.8 meters (5 to 9 feet). The narrow trenches would be washed with a pump and the pyritic zones channel sampled with a portable diamond rock saw and a jackhammer. This should provide a good indication as to the persistence and extent of the gold mineralization.

An interpretation of a recent ground magnetometer survey over the 12 new claims (1057167-1057178) indicates that the favorable lithologic units and probably the deformation zone extend into this area. These new claims should be geologically mapped, prospected and rock sampled. An I.P./resistivity survey over the area would also be warranted.

An interpretation of the magnetometer survey over Laird Lake indicates that it is almost totally underlain by favorable mafic and ultramafic volcanic units. Linear magnetic highs probably represent magnetite or pyrrhotite-bearing iron formation horizons and/or magnetite-bearing komatiite flows. An I.P./resistivity survey on the lake ice during the winter would provide further information to evaluate this portion of the claim group.

No further drilling is recommended until the results of the preliminary work are evaluated.

A budget for the recommended exploration programs is outlined.

Summer Program

Mapping, prospecting, trenching, sampling and report writing.

Geological supervision:	
Geologist: 90 days @ $250/day	$ 22,500
Geological Assistant: 75 days @ $150/day	11,250
	33,750
Food: 150 man days @ $25/day	3,750
Field equipment	2,500
Vehicle rental: 2.5 months @ $1,250/month	3,125
Vehicle operation and maintenance: 75 days @ $25/day	1,875
Bulldozer rental: 70 hours @ $80/hr	5,600
Equipment rental: pump and hose, rock saw, blades, jack hammer, generator	2,000
Rock sample assays: 200 samples @ $12/sample	2,400
Miscellaneous: 10%	5,500
TOTAL	$ 60,500

Winter Program

I.P./resistivity survey over Laird Lake, over Arrowhead Lake south to the claim boundary and over a portion of the new claims.

I.P./Resistivity Survey: 30 line miles @ $2,000/mile	$ 60,000
Temporary picket grid on lakes: 15 line miles @ $200/mile	3,000
TOTAL	$ 63,000

Certificate of Qualification

I, Murray C. Rogers, of the City of Toronto, in the Province of Ontario, Canada, hereby certify:

1. That I am a geologist and have been engaged in my profession for approximately ten years.

2. That I am currently employed by Orex International Consulting and hold the position of Chief Geologist with both Orex and Black Cliff Mines Ltd. of Toronto.

3. That I am a graduate of the University of Calgary with a B.Sc. degree in Geology (1977) and of Queens University with a M. Sc. degree in Geology (1982).

4. That I have no interest in Cyprus Gold (Canada) Ltd., either direct or indirect, nor do I expect to receive any interest, in the properties or securities of Cyprus.

5. That I hereby consent to the use of this report by Cyprus Gold (Canada) Ltd. for its corporate purposes.

Dated at Toronto, Ontario, this 28th day of April, 1989.

Murray C. Rogers

Murray C. Rogers, M. Sc.

R E F E R E N C E S

Farkas, A., 1988, Report on Geological Mapping and the Sampling of Gold Occurrences, Laird Lake Property of Black Cliff Mines Limited, Internal Company Report, Black Cliff Mines Limited.

Willoughby, N.O., 1988, Report on the Geology and Mineralization of the Laird Lake Property of Tasu Resources Ltd., Internal Company Report, Black Cliff Mines Limited.

Appendix A

Diamond Drill Logs for Holes LL-89-1
to LL-89-20 (excluding LL-89-17).

DIAMOND DRILL RECORD

LAIRD LAKE PROPERTY

HOLE NO.: LL-89-1 LENGTH: 136.24 metres SYSTEM: Metric

LOCATION : Line 21+40W; 7+75S LOGGED BY: Murray C. Rogers

AZIMUTH: 160 degrees DIP: -50 degrees

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 6.71m

STARTED: February 22, 1989 FINISHED: February 25, 1989

ACID TEST: 60.96m -50 degrees
136.24m -46 degrees

FOOTAGE From	To	DESCRIPTION
0.0	5.85	OVERBURDEN
5.85	25.8	GRANODIORITE - MAFIC VOLCANIC HYBRID; 4c Mixture of granodiorite intruding into mafic volcanic; dark grey-green to medium grey to pink to red; fine - medium grained (1-3mm), massive, hardness of 4-5, generally equigranular, variable composition: 5-20% quartz, 20-40% hornblende, 40-75% feldspar: K-spar/plag : 1/3 to 1/10; 0.5% disseminated pyrite but locally to 5%; local fracture fillings to pervasive development of hematite; local, irregular, silica- filled fractures. Type 4c unit. 10.1 - 10.9 Pervasive hematite development (likely secondary). 13.6 - 13.9 Pervasive hematite development; local silica - filled, irregular fractures to 1 cm widths. 16.8 - 19.5 Weak, pervasive hematite development. 19.5 - 25.8 Extensive fault - fracture zone: broken and fractured core; pervasive, strong hematite development; local, irregular, random, narrow (1-5 mm), silica - filled fractures. Sharp contact

25.8	30.3	MAFIC VOLCANIC ROCK

Extensively fractured and silicified; medium grey, fine - grained (≤1 mm), massive, pervasive silicification, extensive fracturing - generally irregular, random, 1-5 mm widths, silica - filled; gradational decrease in fracturing and alteration downhole.

Sharp contact

30.3	33.0	MAFIC VOLCANIC FLOW; 1a

Dark grey, fine - grained (≤1 mm), massive, common silica - filled fractures, local patches of silicification.

Sharp contact

33.0	37.9	GRANODIORITE; BIOTITIC; 4a

Medium pinkish - grey, medium - grained (2-3 mm), massive, equigranular, 15 - 20% quartz, 10% biotite, 1-5% hornblende, 65-75% feldspar: plag > Kspar, 0.5% disseminated pyrite. Type 4a.

Sharp contact

37.9	45.6	MAFIC VOLCANIC FLOW; 1a

Medium grey, fine-grained (≤ 1mm), massive, H=3-4, composed of plagioclase and mafic constituents, local minor fracturing. Type 1a.

43.7 - 46.4 Fault zone - extensive fracturing and breaking of core; local hematite development.

Sharp contact

45.6	53.95	GABBRO PORPHYRY

Dark green, pyroxene phenocrysts (2-5mm) in a finer-grained (1-2mm) groundmass, massive, H=4, porphyritic; 20-40% pyroxene phenocrysts, groundmass about 50/50: plagioclase/pyroxene, 0.5% disseminated pyrite but locally to 3%, rare molybdenite; local random, irregular, narrow (1-2mm), silica-filled fractures. Type 2d.

Sharp contact

53.95 56.95 MAFIC VOLCANIC; 1a

Same as Type; local silicification 56.4 - 56.7

Sharp contact

56.95 58.95 GRANODIORITE; PROTOMYLONITE; 4a

Relict texture present locally, relict quartz eyes, weak foliation locally at 35 - 40 degrees to the core axis, 0.5-1% disseminated pyrite. Type.

Sharp contact

58.95 73.25 MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Local foliation at 40 - 45 degrees to the core axis, narrow (1-3mm), local alteration - silica, biotite, pyrite; minor, silica-filled fractures. Type 1am.

59.85 - 60.3 Local intense silicification
60.3 - 62.4 Biotite (5-30%) and pyrite (1-3%) alteration, weak foliation at 45 degrees to the core axis.
62.4 - 68.7 Moderate to strong, pervasive silicification, average 0.5-1% disseminated pyrite-locally to 3%, foliation developed a 40-45 degrees to the core axis.
68.7 - 69.2 Weak biotite (5%) and pyrite (0.5-1%)
69.2 - 69.35 Intense buff silicification; possible granodiorite ultramylonite.
69.35 - 70.2 Biotite alteration (5-25%); 0.5-1% pyrite.
70.2 - 70.7 Pervasive buff silicificaion; 0.5% pyrite; possible granodiorite ultramylonite.
70.7 - 72.0 Biotite (5-30%) and pyrite (0.5-3%) alteration; foliation at 40-45 degrees to the core axis.
72.0 - 72.2 Moderate to strong silica alteration.
72.2 - 73.25 Biotite (5-20%) alteration with pyrite (0.5-2%)

Sharp contact

Assay *** SAMPLE NUMBER: 1026 // 70.9 - 72.0m // 0.011 oz Au/ton

73.25 74.25 GRANODIORITE; PROTOMYLONITE; 4am

Similar to Type.

Sharp contact

74.25 100.0 MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Similar to Type; foliation at 40-45 degrees to the core axis.

74.25 - 74.7 Moderate-strong silica alteration.
74.7 - 76.5 Biotite (5-25%) alteration with pyrite (0.5-2%).
76.5 - 76.95 Moderate-strong silica alteration with 0.5-3% pyrite.
76.95 - 78.0 Biotite (5-15%) alteration with 0.5-2% pyrite.
78.0 - 91.4 Moderate-strong, pervasive silica alteration, 0.5-1% pyrite, trace chalcopyrite locally, silica-filled fractures, local narrow sections of biotite alteration.
78.95 - 79.0 Grey quartz vein parallel to foliation.
91.4 - 91.9 30% biotite alteration; 0.5-1% pyrite
91.9 - 100.0 Moderate-strong, pervasive silica alteration; 0.5-1% pyrite, local silica-filled fractures and narrow biotite alteration sections; decrease in alteration and deformation towards downhole contact.

Sharp contact

100.0 101.7 GRANODIORITE; BIOTITIC; 4a

Very similar to Type (33.0 - 37.9); weak alignment of grains.

Sharp contact

101.7 104.45 DIORITE; 2c

Dark grey, medium-grained (2-3mm), massive, equigranular, 5-15% quartz, 40-50% plagioclase, 20-25% biotite, 20-25% pyroxene, trace-0.5% disseminated pyrite. Type.

Sharp contact

104.45 106.2 GRANODIORITE; BIOTITIC; 4a

Similar to Type, locally contaminated by diorite.

105.5 - 105.7 Strong, pervasive buff silicification; 2% pyrite.

Sharp contact

106.2 110.55 DIORITE; 2c

Same as Type; locally contaminated by granodiorite.

Sharp contact

110.55 115.8 MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Similar to type, tight foliation at 45-50 degrees to the core axis, minor silica-filled fractures.

110.55 - 115.8 Weak to strong, pervasive, silica alteration; 0.5-5% disseminated pyrite.
113.3 - 113.6 Totally silicified, 3-5% disseminated pyrite.

Gradational contact

115.8 133.3 MAFIC VOLCANIC; 1a-1am

Relatively undeformed to protomylonite, weak foliation locally at 45-50 degrees to the core axis, common biotite alteration (5-25%), 0.5-2% disseminated pyrite, minor silica-filled fractures, local silicification.

125.2 - 126.3 Moderate - intense silica alteration, 0.5-2% pyrite.
127.0 - 127.3 Moderate silicification, 1-3% pyrite.
128.2 - 128.3 Strong silica alteration; tight foliation at 45 degrees to the core axis.
128.8 - 128.95 5% pyrite
128.95 - 129.05 5% pyrite
131.45 - 131.75 Chert-exhalite; banded at 45 degrees to the core axis, 0.5-1% disseminated pyrite.

Sharp contact

133.3 134.2 GRANODIORITE; BIOTITIC; 4a

Similar to Type; weak grain alignment

Sharp contact

134.2 136.24 MAFIC VOLCANIC; 1a

Relatively undeformed; similar to Type; local minor fracturing-irregular, random, narrow (≤2mm), silica-filled, weak to moderate silicification locally, 0.5% disseminated pyrite, local granodiorite contamination.

136.24 136.24 END OF HOLE

LAIRD LAKE DIAMOND DRILL PROGRAM 1989

DIAMOND DRILL HOLE LL-89-1

Location: Line 21+40 West; 7+75 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1001	10.1	11.1	1.0	<0.001	
1002	12.5	14.0	1.5	<0.001	
1003	19.0	20.5	1.5	0.001	
1004	20.5	22.0	1.5	<0.001	
1005	22.0	23.5	1.5	<0.001	
1006	23.5	25.0	1.5	<0.001	
1007	25.0	25.8	0.8	<0.001	
1008	25.8	26.5	0.7	<0.001	
1009	26.5	28.0	1.5	<0.001	
1010	28.0	29.5	1.5	<0.001	check
1011	29.5	31.0	1.5	<0.001	
1012	31.0	32.5	1.5	<0.001	
1013	43.7	45.2	1.5	<0.001	
1014	45.2	46.5	1.3	0.001	
1015	52.0	53.5	1.5	0.001	
1016	56.9	58.9	2.0	0.002	
1017	58.9	59.9	1.0	<0.001	
1018	59.9	61.4	1.5	<0.001	
1019	61.4	62.9	1.5	<0.001	check
1020	62.9	64.4	1.5	<0.001	
1021	64.4	65.9	1.5	<0.001	
1022	65.9	67.4	1.5	<0.001	
1023	67.4	68.9	1.5	0.001	
1024	68.9	70.2	1.3	<0.001	
1025	70.2	70.9	0.7	0.001	
1026	70.9	72.0	1.1	0.011	
1027	72.0	73.25	1.25	0.001	
1028	73.25	74.25	1.0	<0.001	check
1029	74.25	75.3	1.05	0.005	
1030	75.3	76.8	1.5	0.001	
1031	76.8	78.3	1.5	<0.001	
1032	78.3	79.8	1.5	<0.001	
1033	79.8	81.3	1.5	<0.001	
1034	81.3	82.8	1.5	0.001	
1035	82.8	84.3	1.5	0.001	
1036	84.3	85.8	1.5	<0.001	
1037	85.8	87.3	1.5	0.001	check
1038	87.3	88.8	1.5	0.001	
1039	88.8	90.3	1.5	0.001	
1040	90.3	91.8	1.5	0.001	
1041	91.8	93.3	1.5	<0.001	

1042	93.3	94.8	1.5	<0.001	
1043	94.8	96.3	1.5	0.001	
1044	96.3	97.8	1.5	0.001	
1045	97.8	99.3	1.5	<0.001	
1046	99.3	100.0	0.7	<0.001	check
1047	105.3	105.8	0.5	<0.001	
1048	110.55	112.05	1.5	0.001	
1049	112.05	113.55	1.5	0.001	
1050	113.55	115.0	1.45	0.001	
1051	115.0	116.5	1.5	0.001	
1052	116.5	118.0	1.5	0.001	
1053	118.0	119.5	1.5	<0.001	
1054	119.5	121.0	1.5	0.001	
1055	121.0	122.5	1.5	0.002	
1055	121.0	122.5	1.5	0.001	check
1056	122.5	124.0	1.5	<0.001	
1057	124.0	125.2	1.2	<0.001	
1058	125.2	126.3	1.1	<0.001	
1059	126.3	127.8	1.5	<0.001	
1060	127.8	129.3	1.5	<0.001	
1061	129.3	130.8	1.5	<0.001	
1062	130.8	132.3	1.5	<0.001	
1063	132.3	133.25	0.95	<0.001	
1064	134.8	135.4	0.6	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-2 LOCATION: Line 22+70W; 7+70S

AZIMUTH: 330 degrees DIP: -50 degrees LENGTH: 136.85m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 6.7m

STARTED: February 25, 1989 FINISHED: February 27, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -48 degrees
136.85m -48 degrees

FOOTAGE From	To	DESCRIPTION
0.0	6.70	OVERBURDEN
6.70	7.70	MAFIC VOLCANIC FLOW; 1a Dark grey, fine-grained (<1mm), massive, H=3-4, featureless, constituents, plagioclase and mafics, ≤0.5% pyrite, locally chloritic, common calcite-filled fractures-irregular, random, narrow (<1-3mm). Type 1a. Relatively sharp contact (over a few cm).
7.70	9.85	GRANODIORITE - DIORITE; 4c Granodiorite - mafic volcanic mixed hybrid; dark pinkish-grey, fine-medium grained (1-3), massive, generally equigranular, variable composition: 5-15% quartz, 25-50% hornblende, 35-70% feldspar: plagioclase > K-feldspar, minor fracturing. Type 4c Relatively sharp contact (over a few cm).
9.85	15.1	MAFIC VOLCANIC FLOW; 1a Same as Type; small (cm), irregular areas of silicification associated with fractures, minor epidote locally.

		14.8 - 15.1 Foliation developed at 40 degrees to the core axis near the downhole contact, biotite alteration (5-15%).
		Sharp contact
15.1	15.85	LEUCOGRANODIORITE; 4b
		Light pink, fine-medium grained (1-2mm), massive, equigranular, H=5, 15% quartz, 2-5% hornblende and biotite, 80% feldspar: plagioclase > Kspar, 1% disseminated pyrite, local quartz-filled fractures-irregular, random, 1-10mm widths. Type 4b.
		Sharp contact
15.85	17.6	MAFIC VOLCANIC FLOW; 1a
		Similar to Type; local sections with granodiorite material.
		Sharp contact
17.6	18.3	GRANODIORITE - DIORITE; 4c; HYBRID
		Similar to Type except finer grained (1-2mm).
		Relatively sharp contact
18.3	18.85	MAFIC VOLCANIC FLOW; 1a
		Similar to Type; 25% biotite alteration.
		Sharp contact
18.85	28.9	GRANODIORITE - DIORITE; 4c; HYBRID
		Same as Type except finer-grained (1-2mm); highly variable between granodiorite and mafic volcanic end members, common silica-filled fractures in more mafic portions-irregular, random and narow (1-5mm).
		24.1 - 26.0 High mafic volcanic content with abundant fracturing.
		Gradational contact
28.9	31.55	MAFIC VOLCANIC FLOW; 1a
		Similar to Type; local granodiorite contamination, local biotite alteration (5-15%).

Gradational contact

31.55	36.0	GRANODIORITE - DIORITE; 4c; GRANODIORITE-MAFIC VOLCANIC HYBRID Similar to 18.85 - 28.9, abundant biotite locally. 31.8 - 31.95 Clay bleached; 1% disseminated pyrite. Gradational contact
36.0	37.3	MAFIC VOLCANIC FLOW; 1a Similar to Type; local silica or calcite-filled fractures - irregular, random, narrow (1-5mm), 0.5% pyrite. Relatively sharp contact
37.3	38.4	INTERFLOW SILICEOUS SEDIMENT - EXHALITE; 1e Medium-dark grey, aphanitic-fine gained ($\leq$1mm), banding (1-5mm) at 60-65 degrees to the core axis, clay to silica content, 3-5% pyrite - pyrrhotite as disseminations, blebs and stringers. Relatively sharp contact

ASSAY *** SAMPLE NUMBER: 1073 // 37.0 - 38.5m // 0.011 oz Au/ton

38.4	50.1	MAFIC VOLCANIC FLOW; 1a Same as 36.0 -37.3, biotite alteration near downhole intrusive contact. 44.4 - 44.7 Moderate-strong silicification. Relatively sharp contact.
50.1	55.25	GRANODIORITE - DIORITE; 4c; GRANODIORITE - MAFIC HYBRID Same as 31.55 - 36.0; minor silica-filled fractures; local talc-filled fractures sub-parallel to the core axis. Relatively sharp contact

55.25	68.70	MAFIC VOLCANIC FLOW; 1a

Similar to Type; local areas of granodiorite contamination, local areas of silicification.

57.55 - 57.8 Pervasive, fracture-controlled silicification, weak orientation at 50 degrees to the core axis, 2-5% pyrite as disseminated, blebs and stringers parallel to fracture orientation.
58.3 - 58.9 Local, narrow (1-5cm) sections of weak-moderate silicification with 1-3% pyrite.
59.1 - 59.4 Extensive, moderate silica alteration, local almandine garnet development to 5%.
61.4 - 62.7 Minor granodiorite contamination, biotite alteration up to 25%.
62.7 - 65.8 Common, fracture-controlled silica alteration at about 50 degrees to the core axis, 1-2%, pyrite-pyrrhotite as disseminations, blebs and stringers.
65.5 - 65.7 Banded white and green quartz at 50 degrees to the core axis.

Sharp contact

68.7	70.0	LEUCOGRANODIORITE; 4b

Similar to Type; mafic volcanic inclusions.

Sharp contact

70.0	83.2	MAFIC VOLCANIC FLOW; 1a

Same as Type; local granodiorite contamination, local biotite alteration 5-25%, local narrow zones of silicification.

72.9 - 74.8 Biotite alteration 10-25%, weak banding at 50 degrees to the core axis.
74.8 - 75.15 4c hybrid, granodiorite-mafic volcanic unit.
77.1 - 77.3 Extensive silica alteration
79.8 - 79.9 Extensive silicification, 10% pyrrhotite as blebs.
79.95 - 80.6 1e; Local fracture-controlled silicification, 3-10% pyrrhotite as disseminations and blebs, high magnetite content; weak exhalitive iron formation.
81.25 - 81.4 1e; Garnetiferous, magnetite-rich unit banded at 45 degrees to the core axis; Fe-rich interflow sediment.
81.4 - 83.2 Weakly banded at 60 degrees to

		the core axis, 1-2% disseminated pyrite, increase in biotite content up to 20% near downhole contact.
		Sharp contact
83.2	84.2	GRANODIORITE; BIOTITIC; 4a
		Medium pinkish-grey, fine-grained (1-2mm) weak grain alignment, H=5, 10-15% quartz, 20% mafics: biotite > hornblende, 65-70% feldspar : plagioclase > Kspar, 0.5-1% disseminated pyrite. Type 4a
		Relatively sharp contact
84.2	84.8	MAFIC VOLCANIC FLOW; 1a
		Similar to 70.0 - 83.2, 1-2% pyrite, pyrrhotite, disseminated, up to 20% biotite near intrusive contacts.
		Relatively sharp contact
84.8	91.9	GRANODIORITE - DIORITE; 4c; GRANODIORITE - MAFIC VOLCANIC HYBRID
		Similar to Type; highly variable grain size (1-3mm) and composition between end members, weak grain alignment locally. 86.3 - 87.35 Variable pinkish colouration; potassic (Kspar) alteration(?). 89.0 - 90.2 Narrow intervals of mafic volcanic; biotitic (10-30%), 1% disseminated pyrite, significant magnetite content.
		Sharp contact
91.9	92.4	MAFIC VOLCANIC FLOW; 1a
		Similar to Type; local granodiorite contamination, biotite alteration (5-15%)
		Sharp contact
92.4	95.5	MAFIC VOLCANIC TUFF; 1c
		Medium grey, fine-grained ($\leq$1mm), massive, about 50/50 plagioclase / mafics, 10-20% biotite, 0.5-1% disseminated pyrite.
		94.5 - 94.7 Gabbro, pyroxene porphyry dyke, sharp contacts.

		Sharp contact
95.5	96.1	BASALT FLOW; 1a
		Similar to Type; dark grey, fine grained (<1mm), massive, greater mafic content, significant magnetite, 0.5-1% pyrite. Type basalt flow 1a.
		Sharp contact
96.1	99.3	GRANODIORITE - DIORITE; 4c; HYBRID
		Similar to Type
		Sharp contact
99.3	136.85	BASALT FLOW; 1a
		Similar to Type; common silica-filled fractures-irregular, random, narrow (1-5mm), local magnetite, sulfide content - 1-2% pyrite-pyrrhotite locally to 10%, local granodiorite contamination, local enrichment in biotite. 100.9 - 101.3 5-10% pyrite-pyrrhotite 103.7 - 104.3 2-5% pyrite-pyrrhotite 108.1 - 108.3 10% pyrite-pyrrhotite 110.8 - 112.0 1e, Exhalitive pyrrhotite-pyrite banded at 60 degrees to the core axis, 5-15% as disseminations, blebs and stringers. 114.3 - 116.4 Common, extensive silica-filled fractures. 128.35 - 128.8 Banded siliceous sediment - exhalite, 1e; 10-15% pyrrhotite, garnetiferous, narrow banding (1-5mm) at 60-65 degrees to the core axis. 128.9 - 130.2 Common, irregular, silica-filled fractures. 132.0 - 132.9 Massive, grey to buff-orange quartz, extensive silica-filled fracturing.
136.85	136.85	END OF HOLE

DIAMOND DRILL HOLE LL-89-2

Location: Line 22+70 West; 7+70 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1065	9.85	11.35	1.5	<0.001	
1066	14.0	15.1	1.1	<0.001	
1067	15.1	15.85	0.75	<0.001	
1068	18.3	18.85	0.55	<0.001	
1069	18.85	20.35	1.5	<0.001	
1070	24.1	25.6	1.5	<0.001	
1071	28.9	30.4	1.5	<0.001	
1072	30.4	31.9	1.5	<0.001	
1073	37.0	38.5	1.5	0.008	
1073	37.0	38.5	1.5	0.011	check
1074	43.6	45.1	1.5	<0.001	
1075	48.6	50.1	1.5	<0.001	
1075	48.6	50.1	1.5	0.001	check
1076	57.5	59.0	1.5	0.001	
1077	59.0	60.5	1.5	<0.001	
1078	61.4	62.9	1.5	0.009	
1079	62.9	64.4	1.5	0.001	
1080	64.4	65.9	1.5	<0.001	
1081	73.3	74.8	1.5	<0.001	
1082	77.1	77.6	0.5	0.001	
1083	79.0	80.0	1.0	<0.001	
1084	80.0	81.5	1.5	0.003	
1085	81.5	82.5	1.0	<0.001	check
1086	82.5	83.2	0.7	<0.001	
1087	84.1	85.6	1.5	<0.001	
1088	85.85	87.35	1.5	0.001	
1089	89.0	90.5	1.5	<0.001	
1090	99.3	100.8	1.5	0.001	
1091	100.8	102.3	1.5	0.003	
1092	103.6	104.6	1.0	0.001	
1093	107.6	108.6	1.0	0.002	
1094	110.6	112.1	1.5	0.007	
1094	110.6	112.1	1.5	0.009	check
1095	114.3	115.8	1.5	0.001	
1096	115.8	117.3	1.5	0.001	
1097	121.0	122.5	1.5	<0.001	
1098	128.3	129.8	1.5	0.002	
1099	129.8	131.3	1.5	<0.001	
1100	131.3	132.0	0.7	0.001	
1101	132.0	132.9	0.9	0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-3 LOCATION: Line 24+00W; 8+05S

AZIMUTH: 340 degrees DIP: -45 degrees LENGTH: 167.3m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 3.2m

STARTED: February 28, 1989 FINISHED: March 2, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -42.5 degrees
121.91m -41.5 degrees
167.33m -44.0 degrees

FOOTAGE From	To	DESCRIPTION
0.0	3.2	OVERBURDEN
3.2	4.05	GABBRO; 2a Dark grey-black, medium-grained (2-3mm), massive, equigranular, 30-40% plagioclase, 60-70% pyroxene, 1% disseminated pyrite, locally to 2-3%, minor magnetite, rare silica-filled frctures-irregular to straight, random, narrow (1-3mm). Type 2a Sharp contact
4.05	5.5	BASALT FLOW; 1a Dark grey-black, fine grained (<1mm), massive, featureless, constituents: plagioclase and pyroxene, pyroxene > plagioclase, 0.5% disseminated pyrite, common silica-filled fractures-irregular, random and narrow (1-3mm). Type 1a Sharp contact

5.5	15.2	GABBRO; 2a Similar to Type; fine-medium grained (1-3mm); 40-50% plagioclase, 50-60% pyroxene, 0.5-1% disseminated pyrite. 7.6 - 8.5 Local hematite stained sections. Sharp contact
15.2	20.75	BASALT FLOW; 1a Same as Type; local silica ± calcite alteration sections. 16.2 - 16.6 Extensive silicification plus minor calcite developed at 45 degrees to the core axis, 1-2% disseminated pyrite. 18.6 - 18.8 Same as 16.2 - 16.6; 1% pyrite 18.8 - 19.1 Common (50%) silicification developed at 45 degrees to the core axis, 1% pyrite. 19.1 - 20.75 Common silica-filled fractures random to 45 degrees to the core axis, 1% pyrite. 20.6 - 20.75 50% silica developed at 45 degrees to the core axis, 1% disseminated pyrite. Sharp contact
20.75	23.6	GABBRO; 2a Similar to 5.5-15.2; 0.5-1% pyrite. Sharp contact
23.6	56.5	BASALT FLOW; 1a-1am Relatively undeformed-protomylonite; local areas of fracture-foliation controlled silicification (± calcite); 0.5-1% pyrite; rare amygdules; zones of biotite alteration. 24.0 - 24.6 Common (20-50%) fracture-foliation controlled silicification developed at 45 degrees to the core axis, 0.5-1% pyrite; 1am. 24.8 - 25.1 Massive silicification (sil.) with minor calcite. 25.1 - 25.8 Weak - moderate pervasive fracture-controlled silica.

25.8 - 32.6 Biotite alteration (5-30%) developed as <1-5mm foliation bands at 40-60% to the core axis, common silica filled fractures. 1am
33.4 - 33.7 Biotite alteration (25%)
35.7 - 36.0 50% fracture-controlled silica.
36.0 - 36.9 Weak, pervasive silica.
38.1 - 38.7 Biotite alteration (5-40%) developed as foliation bands at about 50 degrees to the core axis, 1am.
38.7 - 40.2 Common (10-40%) fracture-controlled silica.
44.1 - 48.6 Banded (<1-5mm) biotite alteration (5-30%), at 50 degrees to the core axis; common fracture-foliation controlled silica. 1am
53.7 - 56.5 Extensive fracture-controlled, generally random silica; local banded biotite alteration at 50 degrees to the core axis, 1am

Sharp contact

56.5	57.9	GABBRO; 2a

Similar to Type; 0.5% pyrite

Sharp contact

57.9	66.4	BASALT FLOW; 1a

Undeformed to protomylonite; 1a-1am; similar to 23.6 - 56.5; 0.5-1% pyrite.

57.9 - 59.5 Extensive fracture-foliation controlled silica; local biotite alteration (5-40%) as bands (<1-5mm) at 50 degrees to the core axis. 1am.
60.1 - 66.0 Biotite alteration (5-30%) as bands at 50 degrees to the core axis; common silica-filled fractures. 1am.
64.6 - 66.0 Extensive silica-filled fractures, 5-50% random. 1am

Sharp contact

66.4	68.85	GABBRO; 2a

Similar to Type; 50-60% pyroxene 40-50% plagioclase

Sharp contact

68.85	83.15	MAFIC VOLCANIC FLOW; 1a
		Similar to Type; common silica-filled fratures-generally irregular, random and narrow (1-10mm), local granodiorite lenses, local minor biotite (to 10%), 0.5% disseminated pyrite; local cream-light green carbonate along fractures.
		68.85 - 83.15 Common to extensive silica-filled fractures with local in situ breccia. 79.25 - 79.3 Pink-orange quartz vein at 45 degrees to the core axis. 83.0 - 83.15 Cream-pale green carbonate vein
		Sharp contact
83.15	83.7	BASALT LAPILLI TUFF; 1b
		Dark grey-black, medium grained (1-4mm), relatively massive, angular tuff fragments in a finer-grained matrix; plagioclase and pyroxene; pyroxene > plagioclase.
		Sharp contact
83.7	88.6	BASALT FLOW; 1a-1am
		Relatively undeformed-protomylonite; similar to 23.6 - 56.5; common silica-filled fractures - irregular, random to foliation parallel and narrow (1-10mm), local biotite alteration (5-25%) as bands at 50 degrees to the core axis; 0.5-1% pyrite.
		85.2 - 88.6 Protomylonite; well defined foliation (<1-2 widths) at 50 degrees to the core axis; biotite alteration (5-25%) as bands parallel to foliation, common local foliation parallel silica.
		Sharp contact
88.6	91.7	MAFIC VOLCANIC TUFF; 1c
		Medium-dark grey, fine grained (1-2mm), massive, plagioclase and pyroxene about 50/50%; minor silica-filled fractures, 0.5% pyrite.
		Gradational contact

91.7	115.8	MAFIC VOLCANIC FLOW; 1a Similar to Type; common, minor silica-filled fractures occasional, narrow, foliated talcose sections, occasional, narrow gabbroic dykes. 97.2 - 98.3 Recrystallized hornblende-rich section - weak foliation at 50-60 degrees to the core axis. 102.1 - 104.5 Pervasive, fracture-controlled calcite alteration; dominant fracture pattern at 60-65 degrees to the core axis. 105.85 - 106.6 Moderate-strong, pervasive silica, 1% pyrite. 107.3 - 109.8 Moderate, pervasive silica, 1% pyrite. 110.2 - 112.0 Moderate-strong, pervsive silica, 1% pyrite. 112.0 - 113.1 Pervasive calcite-(talc) alteration. 113.1 - 114.1 Gabbroic dyke or coarse mafic flow. 114.1 - 114.95 Pervasive calcite-(talc) alteration. 114.95 - 115.4 Gabbroic dyke or coarse flow. 115.4 - 115.8 Pervasive calcite-(talc) alteration. Sharp contact
115.8	117.1	MAFIC VOLCANIC FLOW; 1a Coarser grained (1mm), 1% disseminated pyrite Sharp contact
117.1	117.7	MAFIC VOLCANIC FLOW; 1a Similar to 91.7 - 115.8; Pervasive calcite-(talc) alteration. Gradational contact
117.7	118.8	COARSE MAFIC VOLCANIC FLOW; 1a Fine-grained (1mm), 0.5-1% pyrite Sharp contact

118.8	167.3	BASALT FLOW; 1a

Similar to Type; common sections of talc-(calcite) alteration, 0.5-1% disseminated pyrite - pyrrhotite, lineation developed on some fracture surfaces; local silica alteration, pyrrhotite smeared out along some fracture surfaces, extensive chloritization in some sections.

122.35 - 123.3 Moderate-strong, pervasive silica alteration.
131.85 - 132.0 5-10% pyrrhotite as blebs and stringers, extensive fracture-controlled silica.
138.7 - 139.5 2-3% pyrrhotite as disseminated and stringer.
141.95 - 142.0 Quartz vein at 45 degrees to the core axis.
148.6 - 151.5 2-5% pyrrhotite as disseminated, blebs and sringers; weak biotite alteration (5%).
153.0 - 154.1 Pervasive chlorite-talc alteration.
155.2 - 155.8 Weak biotite alteration (5-10%) as poorly defined bands at 60 degrees to the core axis.

167.3	167.3	END OF HOLE

DIAMOND DRILL HOLE LL-89-3

Location: Line 24 West; 8+05 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1102	5.5	7.0	1.5	<0.001	
1103	11.3	12.8	1.5	<0.001	check
1104	16.0	17.5	1.5	<0.001	
1105	17.5	19.0	1.5	<0.001	
1106	19.0	20.0	1.0	<0.001	
1107	20.0	20.8	0.8	<0.001	
1108	23.9	25.4	1.5	0.001	
1109	25.4	26.5	1.1	0.003	
1110	26.5	28.0	1.5	0.001	
1111	28.0	29.5	1.5	0.001	
1112	29.5	31.0	1.5	0.001	check
1113	31.0	32.5	1.5	<0.001	
1114	32.5	34.0	1.5	<0.001	
1115	34.0	35.5	1.5	<0.001	
1116	35.5	37.0	1.5	<0.001	
1117	37.0	38.5	1.5	<0.001	
1118	38.5	40.0	1.5	0.001	
1119	40.0	41.5	1.5	<0.001	
1120	41.5	43.0	1.5	<0.001	
1121	43.0	44.3	1.3	<0.001	check
1122	44.3	45.8	1.5	<0.001	
1123	45.8	47.3	1.5	<0.001	
1124	47.3	48.8	1.5	0.001	
1125	53.7	55.2	1.5	<0.001	
1126	55.2	56.5	1.3	<0.001	
1127	57.7	59.4	1.7	0.001	
1128	59.4	60.9	1.5	<0.001	
1129	60.9	62.4	1.5	0.001	
1130	62.4	63.9	1.5	0.001	check
1131	63.9	65.4	1.5	0.001	
1132	65.4	66.4	1.0	0.003	
1133	69.3	70.8	1.5	<0.001	
1134	77.4	78.9	1.5	<0.001	
1135	78.9	80.4	1.5	<0.001	
1136	80.4	81.9	1.5	<0.001	
1137	81.9	83.15	1.25	<0.001	
1138	85.1	86.5	1.4	0.001	
1139	86.5	88.0	1.5	0.001	check
1140	88.0	89.0	1.0	<0.001	
1141	97.3	98.8	1.5	<0.001	
1142	101.8	103.3	1.5	<0.001	
1143	103.3	104.8	1.5	<0.001	
1144	105.95	107.3	1.35	<0.001	
1145	107.3	108.8	1.5	<0.001	
1146	108.8	110.3	1.5	<0.001	
1147	110.3	112.0	1.7	<0.001	
1148	112.0	112.6	0.6	<0.001	check

1149	112.6	113.1	0.5	0.001	
1150	114.1	115.1	1.0	<0.001	
1151	117.05	118.1	1.05	<0.001	
1152	118.8	120.3	1.5	<0.001	
1153	122.35	123.35	1.0	0.001	
1154	124.0	125.5	1.5	0.002	
1155	129.5	130.5	1.0	<0.001	
1156	131.0	131.7	0.7	<0.001	
1157	131.7	132.7	1.0	<0.001	
1157	131.7	132.7	1.0	0.001	check
1158	138.5	139.8	1.3	0.001	
1159	141.3	142.3	1.0	<0.001	
1160	148.2	149.7	1.5	0.003	
1161	149.7	151.2	1.5	0.001	
1162	151.2	152.2	1.0	<0.001	
1163	153.0	154.5	1.5	<0.001	
1164	155.0	155.8	0.8	0.001	
1165	162.2	163.7	1.5	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-4 LOCATION: Line 24+00W; 11+25S

AZIMUTH: 180 degrees DIP: -50 degrees LENGTH: 154.53m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 4.9m

STARTED: March 3, 1989 FINISHED: March 5, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -47 degrees
121.91m -41 degrees
154.53m -42 degrees

FOOTAGE From	To	DESCRIPTION
0.0	4.9	OVERBURDEN
4.9	12.0	GRANODIORITE; PROTOMYLONITE; 4a Medium pinkish-grey, medium-grained (2-4mm) well developed, tight (<1-2mm) foliation at 45 degrees to the core axis, strongly aligned grains, 10-20% quartz, 5-25% hornblende and biotite, 55-85% feldspar: plagioclase > K-feldspar, 0.5% disseminated pyrite and locally to 2% as stringers parallel to the foliation, relatively intact quartz grains, local pervasive silicification and silica-filled fractures-irregular, random and narrow (<1-3mm). Type 4am. 10.5 - 12.0 Strong (60-100%) pervasive silicification. Relatively sharp contact
12.0	14.3	MAFIC VOLCANIC FLOW (?); MYLONITE; 1am Dark grey, fine grained (<1mm), strongly developed, tight (≤ 1mm) foliation at 45 degrees to the core axis; original texture totally destroyed, feldspar/mafics: 35/65, occasional foliation controlled silicification, local biotite alteration (5-

		15%) developed as foliation bands, local contamination from gabbro feldspar porphyry. Type 1am.
		Gradational contact over several centimetres.
14.3	17.4	GABBRO; FELDSPAR PORPHYRY; PROTOMYLONITE; 2bm
		Dark grey, coarse grained (2-5mm) anhedral-subhedral plagioclase phenocrysts in a fine grained (≤1mm) groundmass, tight (≤1mm) foliation developed at 45 degrees to the core axis, plagioclase phenocrysts (2-10%) in a groundmass of plagioclase and pyroxene, plagioclase/pyroxene: 40/60, ≤0.5% disseminated pyrite, occasional, minor silica -filled fractures, local biotite alteration to 10%. Type 2bm.
		Sharp contact
17.4	18.0	MAFIC VOLCANIC FLOW; PROTOMYLONITE; 1am
		Similar to Type; weakly developed foliation.
		Sharp contact
18.0	28.8	GABBRO; FELDSPAR PORPHYRY; PROTOMYLONITE; 2bm
		Same as Type; foliation less well developed, common biotite alteration (to 15%) along foliation planes.
		Sharp contact
28.8	32.65	GRANODIORITE; PROTOMYLONITE; 4am
		Same as Type; foliation at 45 degrees to the core axis, original texture still apparent, common, dark grey, relict quartz eyes, 0.5-1% pyrite as disseminated and stringers.
		Sharp contact
32.65	43.9	GABBRO; FELDSPAR PORPHYRY; UNDEFORMED - PROTOMYLONITE; 2b - 2bm
		Similar to 18.0 - 28.8, weakly developed foliation, local biotite alteration to 15%, ≤0.5% pyrite.
		Sharp contact

43.9	47.7	GRANODIORITE; BIOTITIC; 4a Medium pinkish-grey, massive, fine-medium grained (1-2mm), equigranular, 15-20% quartz, 10% biotite, 70-75% feldspar: plagioclase > K-feldspar, ≤0.5% pyrite. Sharp contact
47.7	69.1	GABBRO; FELDSPAR PORPHYRY; WEAKLY DEFORMED - PROTOMYLONITE; 2bm Similar to Type; weak but distinct, tight (≤1-2mm) foliation at 45 degrees to the core axis, biotite alteration (5-50%) developed parallel to foliation, ≤0.5% pyrite. Late intrusive. 47.7 - 50.4 20-50% biotite alteration 50.4 - 69.1 5-30% biotite alteration Sharp contact
69.1	72.4	FELSIC MYLONITE; 6 Medium pink-tan, aphanitic, well developed banding-foliation at 45-60 degrees to the core axis, consisting of alternating light and dark bands, no relict texture, probable original granodiorite, consists almost totally of silica, 0.5% very fine disseminated pyrite. 69.4 - 69.65 Late, fine grained (≤1mm) mafic dyke 69.75 - 69.9 Late, fine grained mafic dyke, 1-2% pyrite. 72.4 - 72.7 Late, fine grained mafic dyke. Sharp contact
72.7	74.8	MAFIC VOLCANIC MYLONITE; 1am Medium grey, aphanitic-fine grained (<1mm). well developed, tight (≤1mm) foliation at 45 degrees to the core axis, consisting of alternating light and dark bands of feldspar and mafics, well silicified, 0.5%

disseminated pyrite, locally to 1% as disseminated and stringers, common, minor silica-filled fractures and foliation planes.

Sharp contact

74.8 75.1 GRANODIORITE; WEAKLY DEFORMED; 4a

Late dyke, 1% disseminated pyrite.

Sharp contact

75.1 134.5 MAFIC VOLCANIC MYLONITE; 1am

Same as 72.7 - 74.8; variably silicified (10-100%), local biotite alteration (to 20%) along foliation planes, local sericite, <0.5-1% pyrite - locally to 2%.

75.25 - 75.7 100% silica, aphanitic, banded at 45-50 degrees, 1-2% pyrite as disseminated and stringers along foliation surfaces.
79.1 - 80.2 100% aphanitic siliceous, ≤0.5% pyrite.
84.0 - 93.5 25-75% silica, 5-20% biotite
98.2 - 100.8 25-75% silica, 5-20% biotite
0.5-1% pyrite - locally to 2%.
100.8 - 101.4 Granodiorite dyke, protomylonite, 4am.
101.4 - 104.6 25-75% silica; 5-20% biotite; 0.5-1% pyrite.
105.2 - 105.6 100% silica
106.8 - 107.1 75-100% silica, minor (2-3%) almandine garnet.
108.0 - 108.5 50-75% silica
109.1 - 114.5 25-75% silica; 5-15% biotite; <0.5-1% pyrite - locally to 3%.
113.9 - 115.6 1e; Probable original Fe-rich exhalite; 5-15% almandine garnet, weakly magnetic, high % aphanitic silica.
116.0 - 119.8 20-80% silica, 5-15% biotite, 0.5-1% pyrite - locally to 2%.
125.9 - 127.5 Protomylonite, weaker foliation, some original texture discernible.
128.1 - 128.4 50-100% silica.
129.2 - 129.6 50-100% silica.
129.9 - 134.5 Weakly deformed to protomylonite; weakly developed foliation, original texture apparent, silica and biotite alteration, 0.5-1% pyrite.
133.45 - 133.9 75-100% silica; 0.5-1% pyrite.

Sharp contact

134.5	135.55	GRANODIORITE; PROTOMYLONITE; 4am

Similar to Type.

Sharp contact

135.55	139.75	MAFIC VOLCANIC FLOW; 1a

Relatively undeformed; dark grey, fine grained ($\leq$1mm), massive to weak foliation developed at 45-50 degrees to the core axis, constituents plagioclase and pyroxene, pyroxene > plagioclase, 0.5% disseminated pyrite, common, minor, silica-filled fractures - foliation surfaces, local silica, common biotite development (5-15%).

Gradational contact

139.75	145.1	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak to strong foliation at 45-50 degrees to the core axis, common silica, 0.5-1% pyrite.

139.75 - 140.25 25-75% silica.
142.8 - 145.1 50-100% silica, 0.5-1% pyrite.

Relatively sharp contact

145.1	152.3	MAFIC VOLCANIC FLOW (?); 1a

Primary description similar to 135.55-139.75; apparent fracture zone, extensive in situ fracturing and brecciation, common to pervasive silica $\pm$ (calcite) filled fractures - generally irregular, random and narrow (<1-3mm), common local alteration includes hematite, talc, clays, silica and chlorite.

Relatively sharp contact.

152.3	154.53	GABBRO OR COARSE MAFIC VOLCANIC FLOW; 2a or 1a

Grain size increases downhole from contact (1mm to 2-3mm), same types but to a lesser degree fracturing and alteration to 145.1-152.3.

154.53	154.53	END OF HOLE

DIAMOND DRILL HOLE LL-89-4

Location: Line 24 West; 11+25 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1166	4.9	6.4	1.5	<0.001	
1167	6.4	7.9	1.5	<0.001	
1168	7.9	8.9	1.0	<0.001	
1169	8.9	10.0	1.5	<0.001	
1170	10.4	12.0	1.6	<0.001	
1171	12.0	13.5	1.5	0.001	
1172	13.5	15.0	1.5	<0.001	
1173	15.0	16.5	1.5	<0.001	
1174	16.6	18.0	1.5	<0.001	
1175	18.0	19.5	1.5	<0.001	check
1176	19.5	20.9	1.4	0.001	
1177	20.9	22.4	1.5	<0.001	
1178	22.4	23.9	1.5	0.001	
1179	27.3	28.8	1.5	<0.001	
1180	28.8	30.3	1.5	<0.001	
1181	30.3	31.8	1.5	<0.001	
1182	31.8	32.7	0.9	0.001	
1183	32.7	34.2	1.5	<0.001	
1184	35.2	36.7	1.5	<0.001	check
1185	42.4	43.9	1.5	0.001	
1186	47.7	49.2	1.5	<0.001	
1187	49.2	50.7	1.5	0.001	
1188	50.7	52.2	1.5	<0.001	
1189	52.2	53.7	1.5	<0.001	
1190	53.7	55.2	1.5	<0.001	
1191	55.2	56.7	1.5	<0.001	
1192	56.7	58.2	1.5	<0.001	
1193	58.2	59.7	1.5	<0.001	check
1194	59.7	61.2	1.5	<0.001	
1195	61.2	62.7	1.5	<0.001	
1196	67.6	69.1	1.5	<0.001	
1197	69.1	70.6	1.5	0.001	
1198	70.6	72.1	1.5	0.003	
1199	72.1	73.6	1.5	<0.001	
1200	73.6	75.1	1.5	<0.001	
1201	75.1	75.8	0.7	<0.001	
1202	75.8	77.3	1.5	<0.001	check
1203	77.3	78.5	1.2	<0.001	
1204	78.5	80.4	1.9	<0.001	
1205	80.4	81.9	1.5	<0.001	
1206	81.9	83.4	1.5	<0.001	
1207	83.4	84.9	1.5	<0.001	
1208	84.9	86.4	1.5	<0.001	
1209	86.4	87.9	1.5	0.001	
1210	87.9	89.4	1.5	0.001	
1211	89.4	90.9	1.5	<0.001	check
1212	90.9	92.4	1.5	<0.001	

1213	92.4	93.9	1.5	<0.001	
1214	93.9	95.4	1.5	0.001	
1215	95.4	96.9	1.5	0.001	
1216	96.9	98.4	1.5	0.002	
1217	98.4	99.9	1.5	<0.001	
1218	99.9	101.4	1.5	0.001	
1219	101.4	102.9	1.5	<0.001	
1220	102.9	104.4	1.5	0.001	
1220	102.9	104.4	1.5	<0.001	check
1221	104.4	105.9	1.5	<0.001	
1222	105.9	107.4	1.5	<0.001	
1223	107.4	108.9	1.5	<0.001	
1224	108.9	110.4	1.5	<0.001	
1225	110.4	111.9	1.5	<0.001	
1226	111.9	113.4	1.5	<0.001	
1227	113.4	114.9	1.5	<0.001	
1228	114.9	116.4	1.5	<0.001	
1229	116.4	117.9	1.5	<0.001	check
1230	177.9	119.4	1.5	<0.001	
1231	119.4	120.9	1.5	0.001	
1232	120.9	122.4	1.5	0.001	
1233	122.4	123.9	1.5	0.001	
1234	123.9	125.4	1.5	<0.001	
1235	125.4	126.9	1.5	0.001	
1236	126.9	128.4	1.5	<0.001	
1237	128.4	129.9	1.5	<0.001	
1238	129.9	131.4	1.5	<0.001	check
1239	131.4	132.9	1.5	<0.001	
1240	132.9	134.4	1.5	<0.001	
1241	134.4	135.6	1.5	0.001	
1242	135.6	137.1	1.5	<0.001	
1243	137.1	138.6	1.5	0.001	
1244	138.6	140.1	1.5	0.001	
1244	138.6	140.1	1.5	<0.001	check
1245	140.1	141.6	1.5	<0.001	
1246	141.6	143.1	1.5	<0.001	
1247	143.1	144.1	1.0	<0.001	
1248	144.1	145.1	1.0	<0.001	
1249	145.1	146.6	1.5	<0.001	
1250	148.4	149.9	1.5	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-5 LOCATION: Line 29+00W; 12+00S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 102.7m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 2.3m

STARTED: March 5, 1989 FINISHED: March 7, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -46 degrees
102.7m -46 degrees

FOOTAGE From	To	DESCRIPTION
0.0	2.3	OVERBURDEN
2.3	15.15	MAFIC VOLCANIC MYLONITE; 1am Dark grey, fine grained (<1mm), well developed, tight (<1-2mm) foliation at 45 degrees to the core axis, original texture totally destroyed, alternating light/dark foliation bands comprised of feldspar and mafics, 0.5-1% disseminated pyrite - locally to 2% along foliation planes, variably silicified (10-100%), common biotite alteration as foliation bands (5-25%), common to extensive silica ±(calcite) filled fractures and foliation-regular to irregular, random to aligned, narrow (<1-3mm). Type 1am. 5.3 - 6.7 Weakly developed foliation; biotite alteration (10-25%), 1-2% disseminated pyrite. 6.7 - 7.15 75-100% silica. 8.3 - 10.0 50-80% silica, 0.5-1% disseminated pyrite. 11.1 - 12.9 25-75% silica, 0.5-1% pyrite 14.45 - 14.8 75-100% silica Sharp contact
15.15	16.0	GABBRO; PROTOMYLONITE; 2am

Dark grey, fine-medium grained (1-2mm), weak foliation developed at 45-50 degrees to the core axis, constituents: plagioclase and pyroxene - plagioclase/pyroxene: 40/60, 1% disseminated pyrite, original texture apparent with pronounced grain alignment, minor silica-filled fractures, late intrusive. Type 2am.

Sharp contact

16.0	16.8	MAFIC VOLCANIC MYLONITE; 1am

Same as Type.

Sharp contact

16.8	17.3	GABBRO; PROTOMYLONITE; 2am

Same as Type.

Sharp contact

17.3	17.5	MAFIC VOLCANIC MYLONITE; 1am

Same as Type.

Sharp contact

17.5	18.15	FELSIC MYLONITE; 6

Medium orangish-pink aphanitic, well foliated at 45 degrees to the core axis with alternating light/dark bands ($\leq$1mm), essentially 100% silica, 1% very fine, disseminated pyrite, no oringinal texture, probable original granodiorite, common, minor silica-filled fractures-irregular to straight, random to foliation parallel, narrow ($\leq$1-2mm). Type 6.

Sharp contact

18.15	19.7	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; foliation at 45-55 degrees, extensive (50-100%) silica, 0.5% disseminated pyrite.

Sharp contact

19.7	20.2	FELSIC MYLONITE; 6

Same as Type.

Sharp contact

20.2	20.7	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; 25-75% silica.

Gradational contact

20.7	24.85	MAFIC VOLCANIC PROTOMYLONITE; 1am

Dark grey, fine grained ($\leq$1mm), weak foliation-grain alignment at 60 degrees to the core axis, constituents, plagioclase and pyroxene, 0.5% disseminated pyrite, local silica. (10-50%), common biotite alteration (5-20%), common, minor silica-filled fractures, local, minor granodiorite contamination.

Sharp contact

24.85	26.0	FELSIC MYLONITE; 6

Similar to Type, foliation at 45-60 degrees to the core axis, 1% disseminated pyrite-locally to 3% as disseminated and stringers parallel to the foliation.

Sharp contact

26.0	29.6	GRANODIORITE TO GRANODIORITE - MAFIC VOLCANIC HYBRID; PROTOMYLONITE; 4am - 4cm

Variable colour from dark pinkish-grey to medium pink, fine-medium grained ($\leq$1-3mm), weak-well developed foliation at 45-60 degrees to the core axis, variable composition between end-members, pronounced grain alignment, original textures generally apparent, local, relict quartz grains, 0.5-1% disseminated and stringer pyrite - locally to 3%, common silica, common, minor silica-filled fractures. Type 4am - 4cm.

27.5 - 27.9 2-5% pyrite as stringers and disseminated.

Gradational contact

29.6	31.1	GRANODIORITE; MYLONITE; 4am

		Medium orangish-pink, aphanitic with relict aligned quartz grains (to 4mm), well developed, tight (≤1mm) foliation at 45 degrees to the core axis, consisting of alternating light/dark bands, pure (100%) silica, 2-5% pyrite as disseminated and stringers parallel to foliation. Type 4am mylonite.
		Sharp contact
31.1	32.2	MAFIC VOLCANIC PROTOMYLONITE; 1am
		Same as 20.7 - 24.85
		Sharp contact
32.2	33.8	GRANODIORITE; MYLONITE; 4am
		Same as Type; 1% disseminated pyrite - locally to 5% as disseminated and stringers parallel to foliation.
		Gradational contact
33.8	37.0	GRANODIORITE; PROTOMYLONITE; 4am
		Similar to mylonite except weaker foliated, original textures still apparent, variable grain sizes 1-4mm, 0.5-1% disseminated pyrite - locally to 3% as disseminated and stringers parallel to the foliation. Type 4am proto-mylonite.
		34.8 - 35.2 2-3% pyrite
		Gradational contact
37.0	39.6	GRANODIORITE; MYLONITE; 4am
		Similar to Type; well developed foliation at 20-30 degrees to the core axis, common, stretched, aligned quartz and lesser feldspar grains, 1% disseminated pyrite locally to 3%.
		Gradational contact
39.6	42.7	GRANODIORITE; PROTOMYLONITE; 4am
		Same as Type.

Gradational contact

42.7	46.3	GRANODIORITE; MYLONITE; 4am

Similar to 37.0 - 39.6.

43.4 - 43.6 3-5% pyrite as stringers along fractures
44.3 - 44.8 Local 1am unit.

Sharp contact

46.3	51.8	MAFIC VOLCANIC FLOW; 1a

Dark grey, fine grained (<1mm), massive, constituents plagioclase and mafics, $\leq$0.5% pyrite, hosts part of a fault-fracture zone - common to extensive silica $\pm$ calcite and talc - filled fractures - generally irregular random, narrow (1-5mm), common alteration generally fracture controlled includes talc, chlorite, silica and calcite.

Sharp lithologic contact

50.6 - 55.2 Common to extensive broken core with local fault gouge; fault zone.

51.8	55.3	GRANODIORITE; PROTOMYLONITE; 4am

Similar to Type; 1-2% disseminated pyrite

Sharp contact

55.3	55.7	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; foliation at 30 degrees to the core axis.

Sharp contact

55.7	56.8	GRANODIORITE; WEAKLY DEFORMED-PROTOMYLONITE; 4a - 4am

Weak grain alignment and foliation locally at 30 degrees to the core axis, original texture generally apparent, but extensive silica through-out, 1% pyrite - locally to 2% as disseminated.

Sharp contact

56.8	57.0	MAFIC VOLCANIC MYLONITE; 1am
		Sharp contact
57.0	59.3	GABBRO; 2a
		Dark grey, fine-medium grained (1-2mm), massive, equigranular, constituents plagioclase and pyroxene, plagioclase/pyroxene: 50/50; 0.5% disseminated pyrite, occasional silica-filled fractures, late intrusive dyke. Type 2a.
		Sharp contact
59.3	67.2	MAFIC VOLCANIC MYLONITE; 1am
		Similar to Type; foliation at 40-45 degrees to the core axis, extensive (25%-100%) silica, 0.5-1% pyrite - locally to 2%, local dykes of granodiorite and gabbro.
		60.5 - 60.9 Granodiorite protomylonite; 4am; dyke, sharp contacts. 66.35 - 66.9 Gabbro dyke; 2a
		Gradational contact
67.2	75.35	MAFIC VOLCANIC; STRONGLY ALTERED 1a TO PROTOMYLONITE 1am
		Weak to no foliation, 25-100% silica, 0.5-1% pyrite.
		Gradational contact
75.35	79.2	MAFIC VOLCANIC MYLONITE; 1am
		Similar to Type; foliated - banding at 35-40 degrees to the core axis, 50-100% silica, 0.5-1% disseminated pyrite.
		Gradational contact
79.2	81.65	MAFIC VOLCANIC PROTOMYLONITE; 1am
		Similar to 67.2 - 75.35; weak to no foliation, 25-100% silica, 0.5% pyrite.
		Sharp contact
81.65	84.0	GABBRO DYKE; 2a

		Similar to Type; common talc developed along fractures.
		Sharp contact
84.0	84.9	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Same as 79.2 - 81.65.
		Sharp contact
84.9	86.5	GABBRO DYKE; 2a
		Same as 81.65 - 84.0
		Sharp contact
86.5	86.8	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Same as 79.2 - 81.65.
		Sharp contact
86.8	90.6	GABBRO DYKE; 2a
		Same as 81.65 - 84.0; common silica $\pm$ calcite or calcite-filled fratures.
		Sharp contact
90.6	94.8	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Same as 79.2 - 82.65; 0.5% pyrite - locally to 1-2%.
		Sharp contact
94.8	102.7	GABBRO; 2a
		Similar to Type; fine grained (1-2mm), local intervals of totally (100%) silica, 1am (mafic volcanic mylonite).
		98.0 - 98.25 1am; 100% silica; 1-2% disseminated pyrite. 98.6 - 99.1 1am; 100% silica, 1-2% pyrite 99.45 - 99.6 1am; 100% silica, 1-2% pyrite
102.7	102.7	END OF HOLE

DIAMOND DRILL HOLE LL-89-5

Location: Line 29+00 West; 12+00 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1251	2.3	3.8	1.5	<0.001	
1252	3.8	5.3	1.5	<0.001	
1253	5.3	6.8	1.5	<0.001	
1254	6.8	8.3	1.5	<0.001	check
1255	8.3	9.8	1.5	<0.001	
1256	9.8	11.3	1.5	<0.001	
1257	11.3	12.8	1.5	<0.001	
1258	12.8	14.3	1.5	<0.001	
1259	14.3	15.8	1.5	<0.001	
1260	15.8	17.5	1.7	<0.001	
1261	17.5	18.3	0.8	<0.001	
1262	18.3	19.7	1.4	<0.001	
1263	19.7	21.2	1.5	<0.001	check
1264	21.2	22.7	1.5	<0.001	
1265	22.7	24.2	1.5	<0.001	
1266	24.2	24.9	0.7	<0.001	
1267	24.9	26.4	1.5	0.001	
1268	26.4	27.9	1.5	<0.001	
1269	27.9	29.4	1.5	<0.001	
1270	29.4	30.5	1.1	0.002	
1271	30.5	31.3	0.8	<0.001	
1272	31.3	32.2	0.9	<0.001	check
1273	32.2	33.8	1.6	<0.001	
1274	33.8	35.3	1.5	<0.001	
1275	35.3	36.8	1.5	<0.001	
1276	36.8	38.3	1.5	0.001	
1277	38.3	39.8	1.5	<0.001	
1278	39.8	41.3	1.5	<0.001	
1279	41.3	42.8	1.5	<0.001	
1280	42.8	44.3	1.5	<0.001	
1281	44.3	45.8	1.5	<0.001	check
1282	45.8	47.0	1.2	<0.001	
1283	47.0	48.5	1.5	<0.001	
1284	48.5	50.0	1.5	<0.001	
1285	50.0	51.8	1.8	<0.001	
1286	51.8	53.3	1.5	<0.001	
1287	53.3	54.8	1.5	0.001	
1288	54.8	56.0	1.2	0.001	
1289	56.0	57.0	1.0	<0.001	
1290	59.5	60.8	1.3	<0.001	check
1291	60.8	62.3	1.5	<0.001	
1292	62.3	63.8	1.5	0.001	
1293	63.8	65.3	1.5	0.002	
1294	65.3	66.8	1.5	0.001	
1295	66.8	68.3	1.5	<0.001	
1296	68.3	69.8	1.5	<0.001	
1297	69.8	71.3	1.5	0.001	
1298	71.3	72.8	1.5	<0.001	

1299	72.8	74.3	1.5	<0.001	check
1300	74.3	75.8	1.5	<0.001	
1301	75.8	77.3	1.5	0.001	
1302	77.3	78.8	1.5	<0.001	
1303	78.8	80.3	1.5	0.001	
1304	80.3	81.6	1.3	<0.001	
1305	84.0	84.9	0.9	0.001	
1306	86.5	86.8	0.3	<0.001	
1307	90.6	92.1	1.5	<0.001	
1308	92.1	93.6	1.5	0.001	
1308	92.1	93.6	1.5	<0.001	check
1309	93.6	94.8	1.2	0.001	
1310	98.0	99.0	1.0	0.001	
1311	99.0	99.8	0.8	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-6 LOCATION: Line 29+75W; 10+12.5S

AZIMUTH: 340 degrees DIP: -45 degrees LENGTH: 175.9m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 2.65m

STARTED: March 8, 1989 FINISHED: March 10, 1989

LOGGED BY: Viera Kovac SYSTEM: Metric

ACID TESTS: 60.96m -43 degrees
121.91m -39 degrees
175.90m -39 degrees

FOOTAGE From	To	DESCRIPTION
0.0	2.65	OVERBURDEN
2.65	48.8	BASALT FLOW; 1a Dark greenish-grey, fine grained (≤1mm), massive generally featureless, composition-original plagioclase and mafics - pyroxene; plagioclase/mafics: 35/65, extensive fine grained chloritization of pyroxene, common minor silica ± calcite filled fractures, generally irregular, random, narrow (1-3mm) occassionally to 2-3cm, <0.5% disseminated pyrite - locally to 2%. Sharp downhole contact 30 degrees to the core axis. 6.8 - 7.2 Local silica, quartz veinlets to 3cm, 0.5-1% disseminated pyrite. 9.2 - 10.05 Siliceous orange dyke with 5% mafics (hornblende?), fine-medium grained anhedral mafic crystals, minor weak carbonate. Dyke composition is predominantly K-feldspar and quartz : 60/35, Sharp uphole and downhole contacts, 10 and 70 degrees to the core axis, respectively. 14.6 - 14.75 Quartz-carbonate veinlet with trace pyrite, veinlet is at 10 degrees to the core axis. 16.1 - 16.25 Basalt (komatiite?), weakly magnetic interval.

27.75 - 39.85 Basalt (komatiite?). Fine grained, moderately foliated, medium grey unit. Foliation is 25-55 degrees to the core axis. 15-20% hairline blackish fractures through-out, most predominantly parallel to the core axis, some randomly oriented. Weakly silicified, very trace upto 1% rare disseminated pyrite. Sharp uphole contact 55 degrees to the core axis; gradational downhole contact.
41.6 - 41.7 Quartz-carbonate-chlorite veinlet at 35 degrees to the core axis, upto 0.5% fine grained disseminated pyrite.
47.9 - 48.8 Mafic volcanic with 35-40% wispy quartz-carbonate stringers predominantly at 30 degrees to the core axis. 1-5mm wide, trace to 1% very weakly banded pyrite parallel to the foliation.
48.8 Small scale fault with a displacement of 5mm, somewhat parallel to the core axis.

48.8	51.2	MAFIC TUFF; 1b

Fine grained, massive, medium grey tuff, subrounded, upto 1mm diameter plagioclase grains. Non-carbonated, weakly siliceous homogenous unit with sharp uphole and downhole contacts at 30 and 25 degrees to the core axis, respectively. Weakly foliated near the downhole contact. Rare trace pyrite.

51.2	57.0	INTERMIXED MAFIC FLOW AND TUFF; 1a,1b

Fine grained, weakly foliated, medium grey-green unit with sparse to abundant (5-30%) wispy quartz-carbonate stringers parallel foliation (40 degrees to the core axis), as well as randomly oriented. Minor talc-carbonate as fracture filling. Trace disseminated pyrite, upto 1% local fine grained subhedral pyrite crystals. Well defined downhole contact 25 degrees to the core axis.

57.0	62.5	INTERMIXED MAFIC FLOW AND GRANODIORITE; 1a,4a

Fine - medium grained, very weakly foliated unit. Granodiorite has much of it's original equigranular texture, mafic minerals (biotite) define the foliation 20 degrees to the core axis. 40%, subrounded feldspar grains, generally 1mm diameter. Moderately

siliceous with rare disseminated pyrite, locally upto 2% fine grained hairline pyrite stringers parallel to and associated with quartz-carbonate stringers.

57.0 - 60.5 Basalt (komatiite?). Weakly magnetic unit, similar to 27.75 - 39.85, but resembles more of a mafic flow.

62.5 73.3 BASALT; 1a

Fine grained, massive to weakly foliated medium greyish-green colour with sparse (5%) wispy quartz-carbonate stringers (1-2mm wide). Minor talc-carbonate alteration as fracture filling. Locally siliceous, 10-15% banded biotite alteration. Biotite defines the foliation. Local, minor chlorite alteration associated with quartz-carbonate stringers. Trace to 0.5% fine grained disseminated pyrite, with upto 1% hairline stringers parallel foliation (30 degrees to the core axis). Gradational uphole and downhole contacts.

71.3 - 71.1 Felsic Protomylonite; Fine grained, weak to moderately foliated, 1% fine grained, disseminated pyrite. Sharp uphole and downhole contacts 20 degrees to the core axis.

73.33 74.5 EXHALITE; 1e

Fine grained, well banded, 10-15% fine grained pyrite stringers parallel to the foliation (25 degrees to the core axis). Locally magnetic, 40% chert, 5-10% biotite, trace chalcopyrite. Somewhat distinct uphole and downhole contacts parallel to the foliation.

74.5 104.0 SHEARED BASALT; 1am

Fine grained, massive to locally very weakly foliated, medium grey coloured locally banded unit. Locally strongly siliceous, non magnetic, minor carbonate-talc filling fractures. Minor biotite alteration bands <3mm wide. Trace - 1% fine grained disseminated pyrite, and along fracture planes.

77.0 - 78.0 Mafic Tuff; 1b
10%, 1mm, subhedral-anhedral white - pinkish feldspar grains, randomly oriented. 1-2% pyrite, disseminated and as somewhat locallized near an area of weak silica flooding.

78.4 - 78.8 Locally abundant medium orange plagioclase grains, trace to 1% fine grained disseminated pyrite.

86.5 - 93.5 Basalt (komatiite?)
Locally magnetic, weakly banded with medium green and grey, 2cm wide bands. Abundant quartz-carbonate stringers near the downhole contact. Stringers are generally 25 degrees to the core axis. 1% disseminated pyrite and as hairline stringers parallel to the foliation. Minor (<5%) biotite alteration, minor carbonate filling fractures. Local well developed foliation, defined by wispy 1mm long white hairline (smeared) plagioclase grains. Gradational contacts.

86.9 - 87.2 weakly magnetic section with a well developed foliation, 0.5-1% pyrite.

87.2 Small scale fault with a displacement of 2mm parallel to the core axis.

93.6 - 94.0 Felsic Mylonite; 6
Strong silica flooding with smeared mafic minerals, which define the foliation at 15 degrees to the core axis. Very minor milky white minor carbonate as fracture filling. Trace pyrite, 1% fine grained pyrite associated with sparse quartz-carbonate veinlets near the downhole contact. Distinct uphole and downhole contacts at 15 degrees to the core axis.

96.0 - 96.40 Basalt (komatiite?)
Massive, very weakly magnetic, locally sparse, milky white carbonate as fracture filling veinlets <1cm wide. as well as 1cm diameter blebs.
98.5 Foliation at 25 degrees to the core axis.

104.0 116.5 BASALT (KOMATIITE ?)

Fine grained, moderately foliated, non-

carbonate, weakly siliceous unit, well foliated at 20-25 degrees to the core axis. Colour varies from medium green-grey with 35% 50cm - 2m wide sections of medium grey with abundant hairline black fractures throughout, randomly oriented, but most are predominantly parallel to the foliation. This unit is pervasively magnetic. Trace to local 1% fine grained disseminated pyrite, loacally as hairline stringers, and as fracture filling. Minor (3-5%) biotite alteration and some talc (<2%) bluish-green colour, occurs as fracture filling and along foliation planes. Gradational uphole contact; sharp downhole contact 35 degrees to the core axis.

108.0 - 108.5 & 109.0 - 110.4 5% red hematitic staining of randomly oriented hairline quartz-carbonate stringers, the alteration varies from 1-3mm wide along the stringers.

114.9 Sparse (<3%) quartz-carbonate stringers parallel to the foliation.

116.5 122.55 GRANODIORITE; 4a

Fine grained to medium, massive-weakly foliated 35% to the core axis. Generally subrounded plagioclase and K-feldspar, equigranular crystals with 10% mafic minerals (biotite) which defined the weak foliation.. Sharp uphole and downhole contacts at 35 and 15 degrees to the core axis respectively. There is a small scale fault running parallel to the core axis near the downhole contact, with a displacement of 3mm. Minor talc-carbonate filled fractures upto 2mm wide. 25%, 50cm-1m wide mafic volcanic non-magnetic intervals cross cut the granodiorite near the uphole contact.

121.5 - 122.0 Minor talc - carbonate along fractures and infilling veinlets, 1% pyrite associated with some of the fractures.

121.9 Local hematitic staining of the wallrock adjacent to fractures of carbonate infilling.

122.55 125.9 BASALT; 1a

Fine grained, medium green, weakly foliated with minor tuffaceous sections of 5-10 cm width. Tuff sections have 10%, 1-2mm lensoidal white plagioclase grains. Local, minor 5-10% fine grained and hairline stringers of pyrite, in some places subhedral crystals developed.

123.0 & 123.55 Bluish-green talc-carbonate as fracture filling of 0.5-2cm wide veinlets.
124.0 10cm wide, 90% siliceous felsic dyklet. Sharp uphole contact at 15 degrees to the core axis, somewhat obscured downhole contact due to broken core.

125.9 175.9 BASALT (KOMATIITE ?)

Weakly magnetic, but generally pervasive unit. A variation in colour from medium grey with blackish hairline fractures, randomly oriented, (but predominantly parallel to the foliation), to an orangish-grey and a medium green (characteristic of mafic flow unit). Local strong silicification. Fine grained, weak to moderately foliated at 35 degrees to the core axis. Non-carbonated, minor bluish-green talc-carbonate veinlets, generally <3mm wide. Trace to 1% fine grained pyrite, locally associated with thin, 3mm wide carbonate veinlets.

132.6 - 132.8 90% siliceous felsic mylonite with 10% biotite which defines the foliation. Trace pyrite.

133.2 - 135.0 & 141.1 - 144.5 Basaltic mylonite, very fine grained, greyish-brown colour, silicified (70%) with 3-5%, 1-2mm smeared plagioclase grains define the weak foliation (25 degrees to the core axis). Sparse hematitic staining around hairline carbonate fractures. Trace pyrite, 25% magnetite grains <1mm diameter.

1360.0 - 136.6 Mixed volcanic and granodiorite (1a,4a); Fine grained-medium, with 20% chlorite alteration.

150.45 - 151.3 Diorite; poorly developed, fine grained, massive 20-25% mafics, talc as fracture fill and on fracture planes locally, trace pyrite, crystalline texture.

153.45 - 156.1 Coarse Grained Mafic Volcanic Flow; Medium gained, massive flow, brownish-green colour, non-carbonated and non-magnetic. Minor bluish-green talc as fracture fill and as <0.1cm veinlets. 1% disseminated pyrite. Distinct, but obscured uphole and downhole contacts.

162.5 - 165.0 Moderately silicified unit, with strong local fractures, upto 20% bluish-green talc alteration as fracture fill and as veinlets upto 1cm wide, predominantly parallel to the core axis. Gradational contacts. Fine grained, massive, non-carbonated, non-magnetic. Trace - 0.5% pyrite, locally asssociated with talc veinlets.

168.7 - 169.9 Weak-moderately silicified, massive, fine grained, medium grey colour, weakly magnetic, trace pyrite along fracture planes. Gradational contacts.

171.6 3mm wide magnetic veinlet at 45 degrees to the core axis.

175.9	175.9	END OF HOLE

DIAMOND DRILL HOLE LL-89-6

Location: Line 29+75 West; 10+12.5 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1312	6.6	8.1	1.5	<0.001	
1313	9.1	9.9	0.8	<0.001	
1314	17.4	18.4	1.0	<0.001	
1315	21.25	22.25	1.0	<0.001	
1316	29.6	31.1	1.5	0.001	
1317	32.6	34.4	1.5	<0.001	
1318	37.2	38.7	1.5	0.001	
1319	47.9	48.8	0.9	0.001	
1320	51.2	52.7	1.5	<0.001	
1321	52.7	54.2	1.5	<0.001	check
1322	54.2	56.0	1.8	<0.001	
1323	56.0	57.0	1.0	0.001	
1324	57.0	58.5	1.5	<0.001	
1325	58.5	60.0	1.5	<0.001	
1326	60.0	61.0	1.0	0.001	
1327	63.1	64.1	1.0	<0.001	
1328	72.15	73.5	1.35	<0.001	
1329	73.5	74.5	1.0	0.004	
1330	74.5	76.0	1.5	0.001	check
1331	76.0	77.0	1.0	<0.001	
1332	78.0	78.5	0.5	0.001	
1333	86.65	88.0	1.35	0.001	
1334	88.0	90.1	2.1	<0.001	
1335	90.1	91.5	1.4	<0.001	
1336	91.5	93.5	2.0	<0.001	
1337	93.5	94.9	1.4	<0.001	
1338	94.9	96.4	1.5	<0.001	
1339	101.1	102.6	1.5	0.001	
1339	101.1	102.6	1.5	<0.001	check
1340	102.6	104.1	1.5	<0.001	
1341	108.35	109.8	1.45	0.001	
1342	113.85	115.3	1.45	<0.001	
1343	121.0	122.55	1.55	<0.001	
1344	122.55	124.0	1.45	0.001	
1345	124.0	125.5	1.5	0.002	
1346	125.5	127.7	1.6	<0.001	
1347	128.9	130.25	1.35	<0.001	
1348	133.2	134.7	1.5	<0.001	check
1349	147.15	148.5	1.35	<0.001	
1350	150.5	152.0	1.5	<0.001	
1351	152.0	153.5	1.5	<0.001	
1352	154.65	156.1	1.45	<0.001	
1353	159.1	160.6	1.5	<0.001	
1354	161.7	163.2	1.5	<0.001	
1355	163.2	164.6	1.4	<0.001	
1356	164.6	165.6	1.0	<0.001	
1357	168.4	169.8	1.4	<0.001	check
1358	172.7	174.1	1.4	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-7 LOCATION: Line 40+00W; 11+60S

AZIMUTH: 345 degrees DIP: -50 degrees LENGTH: 157.6m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 9.95m

STARTED: March 10, 1989 FINISHED: March 12, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -44 degrees
121.91m -41.5 degrees
157.6m -41 degrees

FOOTAGE From	To	DESCRIPTION
0.0	9.95	OVERBURDEN
9.95	54.6	BASALT FLOW; 1a

Dark grey, fine grained (≤1mm), massive-weak foliation at 60 degrees to the core axis, rare unaltered composition plagioclase and mafics, plagioclase/mafics: 35/65, very common alteration: fracture controlled or pervasive, magnetite-talc-carbonate, chlorite or pervasive non-magnetic biotite alteration; magnetite as fine disseminations, clots or rare stringers, nil to 0.5% disseminated pyrite, occasional calcite ± silica filled fractures. Type 1a.

9.95 - 12.9 Weak-strong, pervasive magnetite/talc/carbonate alteration; 11.3-11.6 and 12.75 - 12.95 - strong alteration.
12.9 - 13.6 10-20% biotite alteration.
13.6 - 15.05 Weak, pervasive magnetite/talc/carbonate alteration.
15.05 - 16.4 10-20% biotite alteration.
16.4 - 22.2 Weak-moderate magnetite/talc/carbonate alteration.
22.2 - 25.0 Moderate-strong, pervasive magnetite/talc/carbonate alteration.
25.0 - 25.9 Weak magnetite/talc/carbonate

alteration.
25.9 - 26.9 10% biotite alteration.

26.9 - 28.2 Weak-moderate magnetite/talc/carbonate alteration
28.2 - 29.6 10-25% biotite alteration; local talc/carbonate filled fractures.
29.6 - 35.0 Weak-moderate, pervasive magnetite/talc/carbonate alteration.
35.0 - 36.2 Strong magnetite/talc/carbonate alteration.
35.8 - 35.95 Grey quartz vein with silicification.
36.2 - 36.9 25% biotite alteration
36.9 - 54.6 Weak-strong, pervasive magnetite/talc/carbonate alteration.
36.6 - 37.2 Strong magnetite/talc/carbonate alteration.
38.7 - 41.7 0.5% pyrite as local stringers or disseminated along fractures.
38.7 - 39.2 Strong magnetite/talc/carbonate alteration.
50.15 - 51.7 Strong magnetite/talc/carbonate alteration.
50.3 - 50.55 Granodiorite dyke; refer to 54.6-58.7
53.7 - 54.6 Strong magnetite/talc/carbonate alteration.

Sharp contact

54.6 58.7 GRANODIORITE; BIOTITIC; 4a

Medium grey, fine-medium grained (1-2mm), massive, equigranular, 15-20% quartz, 10-20% biotite, 60-75% plagioclase, local pyrite from 0.5 to 3%.

57.3 - 57.7 Strong, pervasive magnetite/talc/carbonate alteration.

Sharp contact

58.7 73.35 BASALT FLOW; 1a

Same as type.

58.7 - 73.35 Weak-strong, pervasive magnetite/talc/carbonate alteration.
58.7 - 60.0 Strong magnetite/talc/carbonate alteration

60.25 - 60.4 Strong magnetite/ talc/ carbonate alteration
61.6 - 62.5 Moderate-strong magnetite/ talc/carbonate chlorite alteration.
66.05 - 67.6 Total magnetite/talc/ carbonate/chlorite alteration, totally broken core.
67.6 - 73.35 Moderate-strong magnetite/ talc/carbonate alteration
68.4 - 68.6 Granodiorite dyke.

Sharp contact

73.35	74.3	QUARTZ VEIN

73.35 - 74.05 Massive, medium red, "granitic" quartz, local, minor grey quartz veinlets.
74.05 - 74.3 Light-medium grey, massive quartz, 0.5-1% pyrite as stringers and disseminated along fractures.

Sharp contact

74.3	94.05	BASALT FLOW; 1a-1am

Relatively undeformed to local mylonite; common alteration throughout, commmon quartz-calcite veinlets developed along fractures, local pyrite 0.5-2%

74.3 - 77.5 Strong to total pervasive magnetite/talc/carbonate ±chlorite alteration local foliation developed at 45 degrees to the core axis, common broken core.
77.5 - 82.1 Weak-moderate magnetite/talc/ carbonate alteration; common calcite ± quartz veinlets - generally irregular, random, narrow (1-10mm), local pyrite in veinlets to 2%
82.1 - 82.5 Strong magnetite/talc/carbonate alteration
82.5 - 83.4 25 - 50% biotite alteration, weak foliation at 60 - 65 degrees to the core axis.
83.4 - 83.8 Total magnetite/talc/carbonate alteration
83.8 - 87.9 Weak-strong magnetite/talc/ carbonate alteration.
83.9 - 84.1 1-2% pyrite associated with talc/carbonate fractures - veinlets.
85.9 - 86.85 Strong magnetite/ talc/ carbonate alteration

94.05 98.5 GRANODIORITE; BIOTITIC; 4a

Dark pinkish-grey, fine grained (1-2mm), generally massive, local grain alignment, equiganular, 10% quartz, 15-20% biotite, 70-75% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite.

Relatively sharp contact

98.5 157.6 BASALT FLOW; 1a - 1am

Similar to 74.3 - 94.05; similar alteration types, local intervals of silicification, local pyrite 0.5-3%

98.9 - 99.0 Strong magnetite/talc/carbonate alteration
99.9 - 100.6 Extensive chlorite alteration, local silica.
100.6 - 101.2 50-75% silicification, 0.5-1% disseminated pyrite
101.2 - 101.7 Strong magnetite/talc/carbonate alteration.
101.7 - 102.0 15-20% biotite alteration, foliation at 65 degrees to the core axis.
102.0 - 102.4 Strong magnetite/talc/carbonate alteration
102.4 - 103.5 10-15% biotite alteration
103.5 - 104.5 50-100% silica, 0.5-1% pyrite
104.5 - 106.1 10-30% silica, 10-20% biotite, 0.5% pyrite, weak foliation at 65 degrees to the core axis.
106.1 - 122.95 10-25% biotite alteration, 0.5% pyrite locally to 3%.
107.0 - 107.4 2-3% pyrite as stringers and disseminated
109.8 - 112.0 2-3% pyrite as stringers and disseminated,magnetite, weak foliation at 65 degrees to the core axis, local quartz veinlets, parallel to the foliation.

ASSAY ** SAMPLE NUMBER: 1405 // 109.8 - 110.8 // 0.019 oz Au/ton

110.6 - 110.75 Grey quartz veining, 2-3% pyrite
113.75 - 114.65 Granodiorite dyke; 4a
114.9 - 115.1 Granodiorite dyke; 4a
115.1 - 118.3 1-3% pyrite as disseminated and stringers, 10-30% biotite, magnetite, local quartz veinlets.

ASSAY ** SAMPLE NUMBER: 1407 // 115.1 - 116.8 // 0.030 oz Au/ton

116.8 - 117.05 Granodiorite dyke, 4a
120.05 - 122.95 1-3% pyrite, 10-30% biotite alteration, local quartz veinlets.
122.95 - 123.4 Pervasive chlorite alteration
123.4 - 126.0 Moderate-strong talc/carbonate/magnetite alteration with local pyrrhotite (0.5-3%) as blebs and stringers, local foliation at 65-70 degrees to the core axis.
126.0 - 126.3 Pervasive chlorite alteration
126.3 - 136.2 1-2% pyrite as disseminated and as stringers locally to 5%, 10-30% biotite alteration, magnetite, local talc/carbonate veinlets, local quartz veinlets.
136.2 - 136.6 Pervasive chlorite alteration
136.6 - 136.8 Pervasive biotite alteration, foliation at 65-70 degrees to the core axis.
136.8 - 137.2 Moderate magnetite/talc/carbonate/chlorite alteration
137.2 - 137.85 10-20% biotite alteration, 0.5% pyrite
137.85 - 139.3 Moderate-strong talc/carbonate/magnetite/chlorite alteration, foliation at 45-70 degrees to the core axis.
139.3 - 146.3 5-20% biotite alteration, 1-2% disseminated pyrite, local quartz veinlets.

ASSAY ** SAMPLE NUMBER: 1424 // 141.3 - 142.3 // 0.010 oz Au/ton

144.2 - 145.4 Common grey quartz veinlets-veins, 5mm - 5cm widths, 1-2% pyrite.
146.3 - 148.2 Granodiorite contamination.
146.3 - 153.5 10-30% biotite atleration $\leq$0.5% pyrite, locally to 1%, local quartz veinlets.
152.3 - 153.5 1-2% disseminated and stringer pyrite.

ASSAY ** SAMPLE NUMBER: 1426 // 152.0 - 153.5 // 0.027 oz Au/ton

153.5 - 153.8 Strong talc/carbonate/magnetite/chlorite atleration
153.8 - 154.2 10-30% biotite alteration
154.2 - 156.15 Weak magnetite/talc/carbonate alteration, local pyrite-pyrrhotite along fractures.
156.15 - 156.8 10-20% biotite alteration, <0.5% pyrite
156.8 - 157.8 Weak magnetite/talc/carbonate alteration.

157.6 157.6 END OF HOLE

DIAMOND DRILL HOLE LL-89-7

Location: Line 40+00 West; 11+60 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1359	11.3	12.8	1.5	<0.001	
1360	15.05	16.55	1.5	<0.001	
1361	18.4	19.9	1.5	<0.001	
1362	22.2	23.7	1.5	0.002	
1363	23.7	25.0	1.3	<0.001	
1364	28.2	29.6	1.4	<0.001	
1365	29.6	31.1	1.5	<0.001	
1366	34.7	36.2	1.5	<0.001	check
1367	36.2	36.95	0.75	<0.001	
1368	38.7	40.2	1.5	<0.001	
1369	40.2	41.7	1.5	<0.001	
1370	43.8	45.3	1.5	<0.001	
1371	46.9	47.9	1.0	<0.001	
1372	50.15	51.7	1.65	<0.001	
1373	53.6	54.8	1.2	<0.001	
1374	57.0	58.7	1.7	<0.001	
1375	58.7	60.0	1.3	<0.001	check
1376	61.5	63.0	1.5	<0.001	
1377	64.4	65.9	1.5	<0.001	
1378	65.9	67.6	1.5	<0.001	
1379	67.6	69.1	1.5	<0.001	
1380	69.1	70.65	1.55	<0.001	
1381	70.65	72.2	1.65	<0.001	
1382	72.2	73.35	1.15	<0.001	
1383	73.35	74.3	0.95	<0.001	
1384	74.3	75.8	1.5	<0.001	check
1385	75.8	76.8	1.0	<0.001	
1386	76.8	77.5	0.7	<0.001	
1387	77.5	79.0	1.5	<0.001	
1388	79.0	80.2	1.2	<0.001	
1389	80.2	81.7	1.5	<0.001	
1390	81.7	82.5	0.8	<0.001	
1391	82.5	83.4	0.9	<0.001	
1392	83.4	84.9	1.5	<0.001	
1393	84.9	86.4	1.5	<0.001	check
1394	86.4	87.9	1.5	<0.001	
1395	87.9	89.4	1.5	0.001	
1396	89.4	90.9	1.5	0.001	
1397	93.1	94.1	1.0	<0.001	
1398	98.7	99.9	1.2	0.001	
1399	99.9	100.6	0.7	0.001	
1400	100.6	102.1	1.5	<0.001	
1401	102.1	103.4	1.3	<0.001	
1402	103.4	104.3	0.9	<0.001	check
1403	104.3	106.1	1.8	<0.001	
1404	106.9	107.9	1.0	0.001	
1405	109.8	110.8	1.0	0.019	
1406	110.8	112.0	1.2	0.005	

1407	115.1	116.8	1.7	0.030	
1408	117.1	118.3	1.2	0.003	
1409	120.9	122.4	1.5	0.002	
1410	122.4	123.0	0.6	0.009	
1411	123.0	124.5	1.5	<0.001	check
1412	124.5	125.7	1.2	<0.001	
1413	125.7	126.3	0.6	<0.001	
1414	126.3	127.8	1.5	0.002	
1415	127.8	129.3	1.5	0.004	
1416	129.3	130.8	1.5	0.002	
1417	130.8	132.3	1.5	0.002	
1418	132.3	133.8	1.5	0.005	
1419	133.8	135.3	1.5	0.003	
1420	135.3	136.2	0.9	0.004	
1420	135.3	136.2	0.9	0.003	check
1421	136.2	137.7	1.5	<0.001	
1422	137.7	139.3	1.6	<0.001	
1423	139.3	140.3	1.0	<0.001	
1424	141.3	142.3	1.0	0.010	
1425	144.0	145.5	1.5	0.006	
1426	152.0	153.5	1.5	0.027	
1427	154.5	155.5	1.0	0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-8 LOCATION: Line 40+00W; 12+25S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 99.7m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 11.6m

STARTED: March 12, 1989 FINISHED: March 13, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -43.5 degrees
99.7m -41.5 degrees

FOOTAGE From	To	DESCRIPTION
0.0	11.6	OVERBURDEN
11.6	11.8	FELSIC MYLONITE; 6 Medium greyish-pink, well developed foliation at 45 degrees to the core axis consisting of alternating light/dark bands (<1-3mm), aphanitic, composed of silica, probable granodiorite originally but no remnant texture. Type 6 Sharp contact
11.8	12.3	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am Dark grey, very fine grained (<1mm), weak to strongly developed, tight (≤1mm) foliation at 45 degrees to the core axis, no original texture to weak remnant, moderate-strong, pervasive talc/carbonate alteration, minor calcite-filled fractures - veinlets, ≤0.5% disseminated pyrite. Type 1am. Sharp contact
12.3	13.05	FELSIC MYLONITE; 6 Same as Type. Sharp contact

13.05	14.8	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am Similar to Type; weak-moderate, pervasive talc/carbonate alteration, common calcite-filled fractures, weak-strong deformation, 0.5-1% disseminated pyrite, local chlorite development along fractures-foliation. Gradational contact.
14.8	20.3	BASALT FLOW; UNDEFORMED - PROTOMYLONITE; 1a-1am Dark grey, fine grained ($\leq$ 1mm), massive to foliation at 45 degrees to the core axis, composition plagioclase and mafics: plagioclase/mafics: 35/65, $\leq$0.5% disseminated pyrite - locally to 3% along fractures, local talc/carbonate alteration, common, minor calcite-filled fractures. Type 1a. 15.45 - 15.55 3% pyrite as disseminated and stringers parallel to the foliation. 15.75 - 16.0 Total, pervasive, talc/carbonate alteration. Gradational contact
20.3	26.9	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am Similar to 13.05 - 14.8; foliation at 45 degrees to the core axis, moderate-strong talc/carbonate alteration, common, minor calcite $\pm$ silica filled fractures-irregular, random, narrow (1-5mm) $\leq$0.5% pyrite. 24.1 1cm wide pyrrhotite lens parallel to the foliation. 24.3 - 25.5 Total pervasive talc/carbonate alteration. 25.5 - 25.85 Medium pink "granitic" vein. Gradational contact
26.9	34.9	BASALT FLOW; UNDEFORMED - WEAK PROTOMYLONITE; 1a - 1am Similar to 14.8 - 20.3, $\leq$0.5% pyrite, local, weak talc/carbonate alteration, common, minor

calcite filled fractures.

30.9 - 31.1 Moderate-strong fracture-controlled talc/carbonate alteration. Gradational contact

34.9 37.7 MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Weak to well developed foliation at 45-50 degrees to the core axis, local moderate-strong talc/carbonate alteration, large intervals of 50-100% silicification, 2-5% pyrite-pyrrhotite as disseminated and stringers - locally to 10% mainly along foliation surfaces, locally magnetic, local quartz veinlets.

34.9 - 35.1 Strong talc/carbonate alteration, 2-5% pyrite.
35.1 - 36.0 75-100% silica, 2-10% pyrite-pyrrhotite

ASSAY ** SAMPLE NUMBER: 1438 // 34.9 - 36.4m // 0.012 oz Au/ton

36.0 - 36.1 Strong talc/carbonate alteration, 2-5% pyrite
36.1 - 37.4 50-100% silica, 2-10% pyrite-pyrrhotite.
37.4 - 37.55 Strong talc/carbonate alteration 2% pyrite
37.55 - 37.7 50% silica, 5-10% pyrite - pyrrhotite

Gradational contact

37.7 40.2 BASALT FLOW; 1a

Similar to Type; massive, variable contamination from granodiorite, local recrystallization, grain size 1-3mm.

Sharp contact

40.2 42.4 GRANODIORITE; BIOTITIC; 4a

Medium greyish-pink, fine-medium grained (1-2mm), massive, equigranular, 10% quartz, 10% biotite, 80% feldspar, plagioclase > K-feldspar, 1-2% disseminated pyrite. Type 4a.

Sharp contact

42.4	43.5	BASALT FLOW; 1a
		Same as 37.7 - 40.2
		Sharp contact
43.5	44.2	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am
		Similar to Type; variably developed, tight foliation at 50 degrees to the core axis, moderate,pervasive talc/carbonate alteration, common calcite ± silica veinlets.
		Gradational contact
44.2	75.05	BASALT FLOW; UNDEFORMED - PROTOMYLONITE; 1a - 1am
		Similar to Type; massive to weak-strong foliation at 45-50 degrees to the core axis, common, local talc/carbonate alteration, generally fracture-foliation controlled of weak to moderate intensity, common calcite ± silica and quartz veinlets - irregular-straight, random to parallel to foliation, narrow (1-10mm); 0.5% disseminated pyrite-locally to 2%.
		50.1 - 50.6 Medium pink "granitic" vein. 56.2 - 57.8 Moderate fracture - controlled to pervasive talc/carbonate alteration. 60.75 - 61.05 Strong talc/carbonate alteration, foliation at 45 degrees to the core axis. 60.75 - 61.45 Common quartz veinlets, 0.5-1% pyrite. 64.0 - 64.4 Medium pink, massive, "granitic" quartz vein. 64.4 - 68.2 Moderate - strong talc/carbonate alteration, variably developed foliation at 45-60 degrees to the core axis, local quartz veinlets. 68.2 - 69.2 Medium greyish-pink, massive, "granitic" vein. 69.2 - 70.4 Moderate-strong talc/carbonate alteration, variable foliation at 45-65 degrees to the core axis, local quartz veinlets; 70.1 - 70.4 greyish-pink "granitic" vein. 70.4 - 73.4 Strong - total, pervasive talc/carbonate alteration, common granodiorite contamination

Sharp contact

75.05	89.2	GRANODIORITE; BIOTITIC; 4a

Same as Type; fine grained (≤1mm) near contacts increasing to 1-2mm towards centre, local basalt inclusions, talc/carbonate development along fractures near contacts, rare grey quartz veinlets, ≤0.5% disseminated pyrite, locally to 1-2%

76.6 - 76.75 Basalt inclusion, strong talc/carbonate alteration.
77.3 - 78.9 Higher quartz content (10-20%), 0.5-1% disseminated pyrite; probably a different intrusive phase.

Sharp contact

89.2	99.7	BASALT FLOW; 1a

Similar to Type, very common talc/carbonate alteration-weak to strong pervasive, local magnetite, ≤0.5% pyrite.

92.9 - 93.3 Very strong, pervasive talc/carbonate alteration.
93.3 - 93.8 Granodiorite contamination
93.8 - 94.7 Strong, pervasive talc/carbonate alteration.

99.7	99.7	END OF HOLE

DIAMOND DRILL HOLE LL-89-8

Location: Line 40+00 West; 12+25 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1428	11.6	13.1	1.5	0.001	
1429	13.1	14.6	1.5	<0.001	check
1430	14.6	16.1	1.5	<0.001	
1431	19.8	21.3.	1.5	<0.001	
1432	21.3	22.8	1.5	0.001	
1433	22.8	24.3	1.5	0.001	
1434	24.3	25.5	1.2	0.001	
1435	25.9	26.9	1.0	<0.001	
1436	30.1	31.1	1.0	0.001	
1437	33.9	34.9	1.0	0.001	
1438	34.9	36.4	1.5	0.012	
1439	36.4	37.7	1.3	0.002	check
1440	40.5	42.0	1.5	<0.001	
1441	43.7	44.6	0.9	<0.001	
1442	46.4	47.4	1.0	<0.001	
1443	50.9	51.9	1.0	0.001	
1444	51.9	52.9	1.0	0.007	
1445	56.2	57.8	1.6	0.001	
1446	60.6	61.6	1.0	<0.001	
1447	64.0	64.4	0.4	0.001	
1448	64.4	65.9	1.5	<0.001	check
1449	65.9	67.4	1.5	0.001	
1450	67.4	68.2	0.8	0.001	
1451	68.2	69.2	1.0	<0.001	
1452	69.2	70.7	1.5	<0.001	
1453	70.7	72.2	1.5	<0.001	
1454	72.2	73.3	1.1	0.001	
1455	73.7	75.05	1.35	<0.001	
1456	75.05	76.05	1.0	<0.001	
1457	77.2	77.9	0.7	<0.001	check
1458	82.6	83.6	1.0	<0.001	
1459	89.2	90.7	1.5	0.001	
1460	92.3	93.3	1.0	0.004	
1461	93.8	94.8	1.0	0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-9 LOCATION: Line 38+80W; 11+60S

AZIMUTH: 340 degrees DIP: -50 degrees LENGTH: 154.4m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 1.9m

STARTED: March 13, 1989 FINISHED: March 14, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -41.5 degrees
121.9m -41 degrees
154.5m -41.5 degrees

FOOTAGE From	To	DESCRIPTION
0.0	1.9	OVERBURDEN
1.9	8.0	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am Dark grey, fine grained (≤1mm), weakly-strongly developed foliation at 50-55 degrees to the core axis, original texture and composition not apparent, ≤0.5% disseminated pyrite, very common talc/carbonate alteration-fracture controlled to pevasive, local biotite alteration, common, minor calcite veinlets. Type 1am 1.9 - 3.05 Weak-moderate, pervasive talc/carbonate alteration 3.05 - 3.7 Weak (5-10%) biotite alteration, talc/carbonate along fractures. 3.7 - 5.2 Weak-moderate talc/carbonate alteration 5.2 - 5.9 Strong, pervasive talc/carbonate alteration. 5.9 - 8.0 Weak-moderate talc/carbonate alteration. Gradational contact
8.0	12.1	BASALT FLOW; 1a Dark grey, fine grained (<1mm), massive to local foliation at 55 degrees to the core axis, composition plagioclase and mafics

(probably pyroxene), plagioclase/mafics: 35/65, ≤0.5% disseminated pyrite common, weak-moderate talc/carbonate alteration, local biotite alteration (5-20%), two alteration types alternate over short intervals, common, minor calcite ± silica veinlets. Type 1a.

8.0 - 8.5 5-15% biotite alteration
8.5 - 8.8 Moderate talc/carbonate alteration
8.8 - 9.9 5-15% biotite alteration
9.9 - 11.5 Weak, pervasive talc/carbonate alteration.
11.5 - 12.1 Moderate-strong talc/carbonate alteration, foliation at 55 degrees to the core axis, local stringers of pyrite.

Sharp contact

12.1	13.5	GRANODIORITE; BIOTITIC; 4a

Medium pinkish grey, medium grained (1-2mm), massive, equigranular to porphyritic, 12.4 - 12.95 - 10% feldspar phenocrysts 3-5 mm; 10-15% quartz, 10-20% biotite, 65-80% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite. Type 4a

Sharp contact

13.5	25.45	BASALT FLOW; 1a

Similar to Type; common, weak fracture-controlled talc/carbonate alteration, local, narrow intervals of biotite alteration (5-15%), generally massive but weak, local foliation at 55 degrees to the core axis, ≤0.5% disseminated pyrite, local calcite ± silica and quartz veinlets.

Sharp contact

25.45	28.0	GRANODIORITE; BIOTITIC; 4a

Same as Type.

Sharp contact

28.0	38.05	BASALT FLOW; 1a

Similar to 13.5 - 25.45, weak-strong talc/carbonate alteration displaying local foliation, local silicification, ≤0.5% disseminated pyrite, local reddish-brown

biotite alteration (to 10%)

34.3 - 34.6 Moderate-strong talc/carbonate alteration, foliation at 50-55 degrees to the core axis, calcite-quartz veinlets.
34.7 - 35.0 Grey quartz veining (10%) and silica alteration

ASSAY ** SAMPLE NUMBER: 1469 // 35.2 - 36.7m // 0.205 oz Au/ton

37.75 - 37.95 Strong, pervasive talc/carbonate alteration.

Sharp contact

38.05 41.75 DIORITE - GRANODIORITE DYKE; 2c

Medium grey, fine-medium grained (1-2mm), massive-weak grain alignment, equigranular, 10% quartz, 10-15% biotite, 75-80% plagioclase, 0.5% disseminated pyrite, Type 2c.

Sharp contact

41.75 53.5 BASALT FLOW; 1a

Similar to 28.0 - 38.05; common weak-strong talc/carbonate alteration, local biotite alteration, local silicification, $\leq$0.5% disseminated pyrite - locally to 3% as stringers.

42.45 - 42.75 10-25% biotite alteration
43.3 - 43.4 Quartz veinlets and talc/carbonate alteration at 50 degrees to the core axis, 2-3% pyrite as stringers.
43.4 - 44.0 10-15% biotite alteration
44.3 - 44.4 Common calcite-quartz veinlets
45.7 - 46.9 10-30% biotite alteration
46.9 - 48.4 Section of extensive clay/talc/carbonate alteration - total alteration, extensive calcite $\pm$ quartz veinlets, local stockwork-breccia.
48.8 - 49.1 Same as 46.9 - 48.4
49.1 - 52.7 Weak, fracture-controlled talc/carbonate alteration, local quartz veinlets.
52.7 - 53.5 Total pervasive silicification, 0.5-1% very fine pyrite.

Gradational contact

53.5	61.5	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak-strong foliation at 55-60 degrees to the core axis, variably altered, weak-strong talc/carbonate alteration, local silicification, 0.5% disseminated pyrite - locally to 3% as disseminated and stringers.

53.5 - 57.4 Weak, pervasive talc/carbonate alteration
57.4 - 58.2 Strong, pervasive talc/carbonate alteration
58.2 - 58.85 75-100% silica alteration, grey, massive quartz veining, local calcite.
58.85 - 61.5 Weak-moderate talc/carbonate alteration
61.2 - 61.4 Quartz veining and silica.

Gradational contact

61.5	75.05	BASALT FLOW; 1a

Similar to 41.75 - 53.5; generally unaltered to weak talc/carbonate alteration, local quartz veins with silicification, $\leq$0.5% pyrite.

67.1 - 67.4 Grey, massive quartz vein
67.75 - 67.9 Pervasive talc/carbonate alteration with quartz veinlets, 1-2% pyrite.
67.9 - 69.7 Grey, "granitic" vein - mixture of dioritic dyke material and aphanitic silica, 0.5% pyrite.
74.7 - 75.05 Strong, pervasive talc/carbonate alteration.

Sharp contact

75.05	154.5	BASALT - ULTRAMAFIC FLOWS; POSSIBLE KOMATIITE; 1a - 3

Dark grey, fine grained ($\leq$1mm), massive to very weak grain alignment at 60 degrees to the core axis, composition plagioclase and pyroxene: plagioclase/ pyroxene: 20-25/75-80, magnetite present as disseminations, clots and stringers in unaltered and talc/carbonate altered sections, not present in biotite altered section, $\leq$0.5% disseminated pyrite, common weak-strong, pervasive talc/carbonate alteration, local intervals of biotite alteration, minor, narrow (1-3mm) calcite $\pm$ silica veinlets. Type 1a-3.

78.9 - 79.05 Moderate-strong talc/carbonate alteration.
82.6 - 85.6 5-15% biotite alteration, 0.5% pyrite locally to 2% along fractures.
90.3 - 95.4 Weak - moderate talc/carbonate alteration
94.9 - 95.2 Intense talc/carbonate alteration.
95.4 - 97.2 10-30% biotite alteration
97.2 - 98.4 Moderate talc/carbonate alteration
101.5 - 102.95 Weak-moderate talc/carbonate alteration
102.95 - 104.2 10-50% biotite alteration
104.2 - 107.3 Weak talc/carbonate alteration
107.3 - 110.1 5-15% biotite alteration
110.1 - 113.6 Weak talc/carbonate alteration
113.6 - 114.6 5-20% biotite alteration
114.6 - 116.9 Weak talc/carbonate alteration
116.9 - 118.5 Moderate-strong talc/carbonate alteration
118.5 - 120.9 Weak talc/carbonate alteration
120.9 - 122.6 Moderate talc/carbonate alteration
122.6 - 124.6 Weak talc/carbonate alteration
124.6 - 127.05 5-25% biotite alteration;
125.5 - 125.7, 1-2cm talc/carbonate veinlet, 5% pyrite.
127.07 - 130.2 Moderate-strong talc/carbonate alteration
130.2 - 132.9 Weak talc/carbonate alteration
132.9 - 138.0 Weak-moderate talc/carbonate alteration
132.9 Local pyrite stringers along fractures
138.0 - 143.15 Weak talc/carbonate alteration
143.15 - 146.1 Moderate talc/carbonate alteration
146.1 - 146.7 Weak talc/carbonate alteration
146.7 - 151.8 Moderate-strong talc/carbonate alteration
151.8 - 152.2 30% biotite alteration
152.2 - 154.5 Weak-moderate talc/carbonate alteration.

154.5 154.5 END OF HOLE

NOTE: The magnetite content of the 75.05 - 154.5 unit is believed to be a primary constituent. The lack of magnetite in the biotite altered sections may be due to destruction during the alteration process. An alternate interpretation is that the magnetite is secondary and accompanied the talc/carbonate alteration.

DIAMOND DRILL HOLE LL-89-9

Location: Line 38+80W; 11+60S

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1462	5.1	6.1	1.0	0.004	
1463	6.1	7.1	1.0	0.001	
1464	11.1	12.1	1.0	<0.001	
1465	16.2	17.2	1.0	<0.001	
1466	19.1	20.1	1.0	0.001	check
1467	23.4	24.9	1.5	<0.001	
1468	33.7	35.2	1.5	0.003	
1469	35.2	36.7	1.5	0.205	
1671	36.7	38.0	1.3	0.001	
1470	42.6	43.6	1.0	<0.001	
1471	45.6	46.9	1.3	<0.001	
1472	46.9	48.5	1.6	<0.001	
1473	48.5	49.5	1.0	<0.001	
1477	52.9	53.5	0.6	<0.001	
1478	55.0	56.0	1.0	<0.001	
1479	57.2	58.2	1.0	<0.001	
1480	58.2	58.85	0.65	<0.001	
1481	58.85	60.0	1.15	<0.004	
1482	60.0	61.5	1.5	0.002	
1474	67.0	67.5	0.5	<0.001	
1475	67.5	67.9	0.4	<0.001	check
1476	67.9	69.7	1.8	<0.001	
1483	78.3	79.3	1.0	<0.001	
1484	81.6	82.6	1.0	<0.001	check
1485	84.1	85.1	1.0	<0.001	
1486	90.3	91.9	1.6	<0.001	
1487	94.5	95.5	1.0	<0.001	
1488	95.9	97.2	1.3	<0.001	
1489	97.2	98.4	1.2	<0.001	
1490	101.5	102.95	1.45	<0.001	
1491	102.95	104.2	1.25	0.002	
1492	104.2	105.2	1.0	<0.001	
1493	107.3	108.0	0.7	<0.001	check
1494	109.1	110.1	1.0	<0.001	
1495	110.1	111.1	1.0	<0.001	
1496	113.6	114.6	1.0	<0.001	
1497	116.9	118.4	1.5	<0.001	
1498	120.9	121.9	1.0	<0.001	
1499	121.9	122.6	0.7	<0.001	
1500	125.4	126.0	0.6	<0.001	
1501	126.0	127.05	1.05	<0.001	
1502	127.05	128.05	1.0	<0.001	check
1503	132.7	134.2	1.5	<0.001	
1504	134.2	135.7	1.5	<0.001	
1505	135.7	137.2	1.5	<0.001	
1506	137.2	138.1	0.9	<0.001	
1507	143.1	144.6	1.5	<0.001	

1508	144.6	146.1	1.5	<0.001	
1509	146.7	148.2	1.5	<0.001	
1510	150.8	151.8	1.0	<0.001	
1511	151.8	152.3	0.5	<0.001	check
1512	152.3	153.3	1.0	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-10 LOCATION: Line 37+00W; 11+00S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 175.9m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 1.8m

STARTED: March 15, 1989 FINISHED: March 17,1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACIS TESTS: 60.96m -47 degrees
121.9m -39 degrees
175.9m -39.5 degrees

FOOTAGE From	To	DESCRIPTION
0.0	1.8	OVERBURDEN
1.8	3.0	GRANODIORITE; BIOTITIC; 4a Medium pinkish-grey, medium grained (2mm), massive, equigranular, 15-20% quartz, 10% biotite, 70-75% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite. Type 4a Sharp contact
3.0	3.4	MAFIC VOLCANIC (?) MYLONITE; 1am Total, pervasive talc/carbonate alteration, tight (<1mm), foliation at 65 degrees to the core axis. Sharp contact
3.4	4.0	FELSIC MYLONITE; 6 Light greyish-pink, aphanitic, well developed, tight ($\leq$ 1-2mm), foliation at 65 degrees to the core axis consisting of alternating light/dark bands; composed totally of silica. Type 6. Sharp contact

4.0	4.4	MAFIC VOLCANIC (?) MYLONITE; 1am
		Same as 3.0 - 3.4
		Sharp contact
4.4	5.35	GRANODIORITE, BIOTITIC; 4a
		Same as Type
		Sharp contact
5.35	5.75	MAFIC VOLCANIC MYLONITE; 1am
		Strong, pervasive talc/carbonate alteration, foliation at 65 degrees to the core axis.
		Sharp contact
5.75	6.3	GRANODIORITE; BIOTITIC; 4a
		Same as Type
		Sharp contact
6.3	8.2	BASALT FLOW; 1a
		Dark grey, fine grained (1mm), massive, composition: plagiocalse and pyroxene, plagioclase/pyroxene: 35/65, common contamination from granodiorite, $\leq$0.5% disseminated pyrite, local recrystallization, minor silica-filled fractures. Type 1a.
		Sharp contact
8.2	9.95	GRANODIORITE, BIOTITIC; 4a
		Same as Type
		Sharp contact
9.95	15.2	BASALT FLOW; 1a
		Same as Type
		Sharp contact

15.2	16.1	GRANODIORITE; BIOTITIC; 4a
		Same as type
		Sharp contact
16.1	18.8	BASALT FLOW; 1a
		Same as Type
		Sharp contact
18.8	19.25	GRANODIORITE; BIOTITIC; 4a
		Same as Type
		Sharp contact
19.25	20.05	GRANODIORITE; BIOTITIC; 4a
		Same as Type
		Sharp contact
20.05	20.50	BASALT FLOW; 1a
		Same as Type
		Gradational contact over a few centimetres
20.50	24.45	GRANODIORITE; BIOTITIC; 4a
		Same as Type; local basalt inclusions
		Sharp contact
24.45	25.35	BASALT FLOW; 1a
		Same as Type
		Sharp contact
25.35	43.5	GRANODIORITE; BIOTITIC; 4a - 4c
		Similar to Type; local basalt inclusions and contamination.
		Gradational contact over a few centimetres.

43.5	44.6	BASALT FLOW; 1a Similar to Type; extensive granodiorite contamination. Gradational contact over several centimetres
44.6	46.1	GRANODIORITE - MAFIC VOLCANIC; HYBRID; 4c Biotitic garnodiorite with significant basalt contamination, common silica-filled fractures-irregular to straight, generally random, narrow (1-3mm); 0.5%-1% disseminated pyrite. Gradational contact over several centimetres.
46.1	47.1	BASALT FLOW; 1a Similar to Type; common granodiorite contamination. 46.3 - 46.4 Grey, massive quartz veining Sharp contact
47.1	48.2	GRANODIORITE; BIOTITIC; 4a Same as Type; common silica-filled fractures. Gradational contact over a few centimetres.
48.2	49.8	BASALT FLOW; 1a Similar to Type; common granodiorite contamination, 0.5-1% disseminated pyrite. Gradational contact over a few centimetres.
49.8	54.1	GRANODIORITE; 4a - 4c Similar to Type; common basalt contamination. 53.05 - 53.25 Talc/carbonate altered basalt inclusion. Gradational contact over several centimetres
54.1	58.4	BASALT FLOW; (KOMATIITE ?); 1a Similar to Type; local granodiorite contamination, common weak-strong talc/carbonate alt-

eration, high magnetite content with talc/carbonate altered sections:

54.1 - 54.85 Granodiorite contaminated section
54.85 - 55.1 Moderate, pervasive talc/carbonate alteration
55.1 - 55.4 Granodiorite contamination
55.4 - 56.15 Moderate talc/carbonate alteration
56.15 - 56.6 Granodiorite contamination
56.6 - 57.9 Moderate - strong, pervasive talc /carbonate alteration, 0.5% disseminated pyrite.
57.9 - 58.4 Unaltered section

Sharp contact

58.4 59.8 GRANODIORITE; BIOTITIC; 4a

Same as Type

Sharp contact

59.8 66.6 BASALT (POSSIBLE KOMATIITE ?); 1a - 3

Dark grey-black, fine grained (<1mm), massive, composition: plagioclase = 25%, pyroxene = 75%, local, weak magnetite, $\leq$0.5% disseminated pyrite, common, weak-moderate, talc/carbonate alteration, local chlorite alteration. Type 1a - 3.

59.8 - 63.1 Weak to locally moderate talc/ carbonate alteration, common, local chlorite alteration, occasional calcite veinlet.
63.1 - 65.7 Unaltered section, 1% disseminated pyrite.
65.7 - 66.6 Weak talc/carbonate alteration, local silica alteration, local, weak (5-10%) biotite alteration, 0.5-1% pyrite.

Gradational contact

66.6 72.7 BASALT FLOW; PROTOMYLONITE - MYLONITE; 1am

Less altered sections-similar description to Type 1a - 3, weak to well developed tight ($\leq$ 1-2mm) foliation at 45 degrees to the core axis, unaltered to altered, common talc/carb -onate, local biotite alteration $\leq$0.5% dissem-inated pyrite - locally to 3%, minor

calcite ± silica veinlets. Type 1am.

66.6 - 67.1 Strong, pervasive talc/carbonate alteration
67.1 - 67.5 Weak talc/carbonate alteration
67.5 - 68.2 Strong talc/carbonate alteration
68.2 - 69.4 Weak (5-10%) biotite alteration, talc/carbonate along fractures.
69.4 - 70.2 Weak talc/carbonate alteration
70.2 - 70.8 Relatively unaltered
70.8 - 72.7 Weak talc/carbonate alteration

Sharp contact

72.7	73.6	GABBRO; PYROXENE PORPHYRY DYKE; 2d

Dark grey, pyroxene phenocrysts (2-4mm) in a fine grained (≤1mm) groundmass, massive, porphyritic, 10% pyroxene phenocrysts, groundmass: 35% plagioclase, 65% pyroxene; anhedral phenocrysts.

Sharp contact

73.6	74.5	BASALT; PROTOMYLONITE - MYLONITE; 1am

Same as Type; foliation at 55-60 degrees to the core axis.

73.6 - 74.5 Weak - moderate talc/carbonate alteration

Gradational contact

74.5	101.65	BASALT FLOW; 1a

Similar to Type; ≤0.5% pyrite-pyrrhotite - locally to 2%, common, weak talc/carbonate alteration, fracture-foliation controlled at 60 degrees to the core axis, local quartz veinlets, local, narrow (cm), fracture-controlled silicification, rare, weak (5-10%) biotite alteration.

75.2 - 76.6 Weak, pervasive talc/carbonate alteration
97.9 - 98.6 5-10% biotite alteration
101.4 - 101.65 5-30% biotite alteration

Sharp contact

101.65	102.6	BASALT; LAPILLI TUFF; 1b

Similar composition to 1a; rounded, elongate tuff clasts- chloritic, 2-5mm, elongate, aligned at 60 degrees to the core axis, 5-30% biotite alteration of groundmass, 0.5-1% disseminated pyrite. Type 1b

Sharp contact

102.6	110.9	BASALT FLOW; (POSSIBLE KOMATIITE ?); 1a

Similar to 74.5 - 101.65

104.65 - 104.9 Weak - moderate, talc /carbonate alteration
105.35 - 105.65 Moderate talc/carbonate alteration.
106.6 - 107.1 Moderate talc/carbonate alteration
110.1 - 110.25 Quartz veinlets-random, irregular, narrow (1-5mm), 20% of section.

Sharp contact

110.9	111.9	QUARTZ VEIN

Grey, aphanitic, massive quartz vein, 1-2% pyrite as disseminated, blebs and stringers, weak foliation at 60 degrees to the core axis

Sharp contact

111.9	115.7	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak - well developed foliation at 60 degrees to the core axis, common, pervasive talc/carbonate alteration, local silica, 0.5-1% disseminated pyrite-pyrrhotite, locally to 10% as disseminated and stringers.

112.3 - 112.9 Weak talc/carbonate alteration
112.9 - 113.5 50-100% silica, 5-10% pyrite-pyrrhotite as disseminated and stringers, possible exhalite (1e?)

ASSAY ** SAMPLE NUMBER: 1550 // 112.9 - 113.5m // 0.017 oz Au/ton

113.5 - 113.9 Moderate talc/carbonate alteration
113.9 - 114.2 Granodiorite dyke.

		114.2 - 115.7 Weak - moderate, pervasive talc/carbonate alteration Gradational contact
115.7	120.6	BASALT FLOW; (POSSIBLE KOMATIITE ?); 1a Similar to 74.5 - 101.65 116.1 - 116.75 75-100% massive grey silica, 2-10% pyrite - pyrrhotite as disseminated and stringers; possible exhalite (1e?) 116.75 - 119.5 Weak talc/carbonate alteration 119.5 - 120.15 Moderate talc/carbonate alteration 120.15 - 120.6 50-100% silica; 1-2% disseminated pyrite Sharp contact
120.6	122.1	GRANODIORITE; BIOTITIC; 4a Similar to Type Sharp contact
122.1	122.7	BASALT FLOW; 1a Similar to Type; significant granodiorite contamination Sharp contact
122.7	128.25	GRANODIORITE; BIOTITIC; 4a Similar to Type; 0.5-1% disseminated pyrite local biotite (10-20%) alteration, rare talc /carbonate developed along fractures, local basalt inclusions. 122.7 - 123.3 Medium pink, massive, "granitic" vein. 126.3 - 126.9 Granodiorite - basalt hybrid;4c 127.8 - 128.25 Medium pink, massive, "granitic" vein Sharp contact

128.25	137.85	BASALT FLOW; 1a Similar to Type; grain size (1mm), common and locally extensive granodiorite contamination. 129.2 - 129.4 Medium pink, "granitic" vein 129.65 - 132.0 10-30% chlorite alteration 132.0 - 137.85 5-10% biotite alteration 136.2 - 136.5 50% medium pink, "granitic" veining. Sharp contact
137.85	140.0	"GRANITIC" QUARTZ VEIN - DYKE Medium pink, fine grained (1mm), massive, 100% quartz. Sharp contact
140.0	143.9	BASALT FLOW; 1a Similar to Type; common granodiorite contamination. 140.3 - 140.45 Pink, "granitic" vein 143.6 - 143.9 Total, pervasive talc/carbonate alteration Sharp contact
143.9	146.5	"GRANITIC" QUARTZ VEIN Medium pink, fine grained ($\leq$1mm), massive Sharp contact
146.5	159.7	BASALT FLOW; 1a Similar to Type; common granodiorite contamination. 146.5 - 147.1 10-30% biotite alteration 147.1 - 148.4 50-75% "granitic" veining, milky white - light pink, aphanitic to fine grained ($\leq$1mm). 148.4 - 148.95 10-20% biotite alteration 148.95 - 149.15 "Granitic" vein 149.4 - 149.9 "Granitic" vein 149.9 - 153.4 5-15% biotite alteration 153.4 - 155.0 Weak-moderate, fracture controlled talc/carbonate alteration

155.0 - 155.2 20% quartz veinlets - irregular random, narrow (1-10mm)
155.2 - 158.75 5-15% biotite alteration
158.75 - 159.35 Medium pink, massive, "granitic" vein
158.9- 159.2 Granodiorite dyke
159.45 - 159.7 "Granitic" vein, talc/carbonate alteration, along fractures, local molybdenite to 5%

Gradational contact

159.7	175.9	BASALT - ULTRAMAFIC FLOW; (KOMATIITE?); 3

Dark grey-black, fine grained (<1mm), massive 15-20% plagioclase, 75-80% pyroxene, high magnetite content, $\leq$ 0.5% disseminated pyrite -pyrrhotite, common talc/carbonate alteration.

159.7 - 161.6 Common-extensive, fracture controlled talc/carbonate alteration with veinlets to 1cm
161.6 - 162.3 Weak - moderate, pervasive talc /carbonate alteration
167.9 - 169.8 Weak, pervasive talc/carbonate alteration, locally to 2% pyrrhotite along fractures
174.6 - 175.9 Weak pervasive talc/carbonate alteration

175.9	175.9	END OF HOLE

DIAMOND DRILL HOLE LL-89-10

Location: Line 37+00W; 11+00S

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1513	3.0	4.3	1.3	0.002	
1514	5.35	5.75	0.4	0.008	
1515	8.2	9.2	1.0	0.001	
1516	11.2	12.3	1.1	0.002	
1517	17.2	18.75	1.55	<0.001	
1518	22.5	23.5	1.0	0.003	
1519	26.5	28.0	1.5	<0.001	
1520	32.9	34.4	1.5	0.001	
1521	37.65	38.65	1.0	<0.001	
1522	43.5	44.6	1.1	0.001	check
1523	44.6	46.1	1.5	<0.001	
1524	46.1	47.1	1.0	0.001	
1525	47.1	48.2	1.1	0.001	
1526	48.2	49.9	1.7	<0.001	
1527	54.85	56.15	1.3	0.001	
1528	56.4	57.9	1.5	<0.001	
1529	59.8	61.3	1.5	<0.001	
1530	63.1	64.6	1.5	0.001	
1531	66.0	68.1	2.1	0.001	check
1532	68.1	69.4	1.3	0.003	
1533	69.4	70.9	1.5	0.001	
1534	70.9	72.1	1.2	0.001	
1535	72.1	73.6	1.5	<0.001	
1536	73.6	74.7	1.1	<0.001	
1537	75.2	76.6	1.4	<0.001	
1538	76.6	78.1	1.5	<0.001	
1539	83.4	84.4	1.0	<0.001	
1540	89.0	90.4	1.4	<0.001	
1540	89.0	90.4	1.4	0.001	check
1541	91.9	92.9	1.0	0.001	
1542	96.9	98.4	1.5	0.002	
1543	101.4	102.7	1.3	0.001	
1544	104.65	105.65	1.0	0.001	
1545	105.65	106.3	0.65	0.001	
1546	106.3	107.3	1.0	0.001	
1547	110.0	110.9	0.9	0.001	
1548	110.9	111.9	1.0	0.001	
1549	111.9	112.9	1.0	0.001	check
1550	112.9	113.5	0.6	0.017	
1551	113.5	115.0	1.5	0.003	
1557	115.0	116.1	1.1	0.003	
1552	116.1	116.75	0.65	0.006	
1553	116.75	118.0	1.25	0.009	
1554	118.0	119.0	1.0	0.001	
1555	119.0	120.25	1.25	0.001	
1556	120.25	120.7	0.45	<0.001	
1558	121.3	122.8	1.5	0.003	
1558	121.3	122.8	1.5	0.001	check

1559	122.8	123.7	0.9	0.001	
1560	127.8	128.4	0.6	0.001	
1561	129.2	130.7	1.5	0.001	
1562	130.7	132.0	1.3	<0.001	
1563	133.2	134.2	1.0	<0.001	
1564	136.35	137.85	1.5	<0.001	
1565	137.85	138.9	1.05	<0.001	
1566	138.9	140.0	1.1	<0.001	
1567	142.4	143.9	1.5	<0.001	check
1568	143.9	145.4	1.5	0.001	
1569	145.4	146.5	1.1	0.002	
1570	146.5	147.1	0.6	0.001	
1571	147.1	148.4	1.3	<0.001	
1572	148.4	149.9	1.5	<0.001	
1573	152.4	153.4	1.0	<0.001	
1574	153.4	154.5	1.1	0.008	
1575	154.5	155.5	1.0	<0.001	
1576	158.75	159.2	0.45	<0.001	check
1577	159.2	160.7	1.5	<0.001	
1578	160.7	162.2	1.5	<0.001	
1579	167.9	168.9	1.0	0.003	
1580	168.9	169.9	1.0	0.002	
1581	173.1	174.4	1.3	0.001	
1582	174.4	175.9	1.5	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-11 LOCATION: Line 14+00W; 7+50S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 148.4m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 3.65m

STARTED: March 18, 1989 FINISHED: March 20, 1989

LOGGED BY: Viera Kovac SYSTEM: Metric

ACID TESTS: 60.9m -44 degrees
121.9m -38 degrees
148.4m -38 degrees

FOOTAGE From	To	DESCRIPTION
0.0	3.0	OVERBURDEN
3.0	4.2	MAFIC MYLONITE; 1am Very fine grained, moderately foliated, strongly silicified, pale to medium green volcanic. Non-carbonated, non-magnetic upto 50% silica; foliation at 40 degrees to the core axis. Abundant (10%) quartz-carbonate filled microfractures (ladder type veining), predominantly parallel to the foliation. No visible sulphides. Distinct downhole contact at 35 degrees to the core axis.
4.2	9.3	GRANODIORITE; PROTOMYLONITE; 4am Very fine grained, moderately foliated, strongly silicified (upto 100% locally). The foliation is at 40 degrees to the core axis. Sparse to locally abundant 3-5% quartz filled microfractures. Almost no original texturs, locally 5-10% fine grained dark mafic minerals appear as frature fill near the downhole contact. Overall a medium grey colour with minor, local pinkish zones. Trace to 2% disseminated and banded stringers, pyrite, predominantly parallel to the foliation. Sharp downhole contact at 40 degrees to the core axis.

8.0 - 9.3 1-2% pyrite, pinkish-grey coloured unit.

9.3	15.9	GRANODIORITE; 4a

Fine to medium grained, massive to weakly foliated at 35 degrees to the core axis, overall a medium grey colour. Generally a well preserved original crystalline texture of equigranular 1-2mm diameter feldspar crystals. Abundant quartz filled micro-fractures (stockwork type). Moderate to strong (60-70%) local silicification, locally protomylonitic with an obliterated original texture. Trace disseminated pyrite. Sharp downhole contact 30 degrees to the core axis.

10.3 - 10.6 & 10.9 - 12.55 Strongly mylonitized, well developed foliation 40 degrees to the core axis. Original texture is almost completely destroyed. Trace - 1% disseminated pyrite, non-carbonated, non-magnetic, sharp contacts parallel to the foliation.

10.2 - 10.9 Somewhat of a brecciated texture where there is strong quartz veining (stockwork type). Trace pyrite associated with 1% bluish-grey quartz blebs.

15.9	17.4	GRANODIORITE; MYLONITE; 4am

Aphanitic to very fine grained, weak to moderately well foliated at 30 degrees to the core axis, medium grey overall colour. Sparse quartz-carbonate veining 3-5%, parallel to foliation, microfractures infilling predominantly near the uphole contact. Strong silicification 80%, trace disseminated pyrite. Sharp downhole contact 20 degrees to the core axis.

16.2 - 19.15 orangish-grey weak banding to the foliation.

17.4	19.15	BASALT; 1a

Fine grained, massive, overall a medium grey colour with 3%, 2-3mm diameter, subangular white plagioclase crystals through-out. Very

sparse <3%, thin 1-2mm wide quartz-carbonate stringers randomly oriented. Non-magnetic, non-carbonated, trace disseminated pyrite. Sharp downhole contact 35 degrees to the core axis.

19.15 20.1 GRANODIORITE; MYLONITE; 4am

Fine grained, weak-moderately foliated, medium grey dyke, with local 2-3cm wide areas of original crystalline texture, with equigranular plagiocalase crystals, orangish-grey in colour. Moderately silicified, abundant creamy coloured, randomly oriented quartz veinlets, 1-2mm wide.

20.1 38.2 SHEARED BASALT; 1am

Fine grained, moderately foliated, medium grey unit, strong local silicification, non-magnetic, minor micro-faults. Trace - 1% pyrite.

20.1 - 21.2 Minor, local microfaults with a displacement of 5mm along the core axis. Locally abundant (10%), thin (1-2mm) infilled microfractures. Trace to 1% subhedral pyrite parallel foliation.
21.2 - 22.0 Basalt; 1a
Fine grained, massive, weakly pervasively carbonated, non to very weakly silicified. Trace pyrite, gradational contacts.
22.0 - 23.5 Sheared Basalt; 1am
Similar to 20.1 - 21.2, except not as many quartz stringers and 15% stretched feldspathic grains (3-5mm long X 1-2mm wide). Trace disseminated pyrite.
23.5 - 24.9 Felsic Mylonite; 6
aphanitic to fine grained, well developed foliation 30 degrees to the core axis. Strongly (90-100%) silicified, non-carbonated, overall a medium grey unit, locally pinkish grey. 1%, fine grained disseminated pyrite. Poorly defined, gradational contacts.
24.9 -26.5 Sheared Basalt; 1am
Fine grained, moderately well foliated, medium grey unit, foliation at 30 degrees to the core axis. Minor, local microfaults with a displacement of 1-2mm, generally parallel to the core axis. Trace pyrite.

26.5 - 29.0 Sheared Basalt; 1am
Aphanitic to fine grained, massive to weakly foliated, medium grey to pinkish-grey colour. Strongly silicified (80-90%). Trace pyrite. Foliation is 30 degrees to the core axis.
29.0 - 38.2 Sheared Basalt; 1am
Similar to 24.9 - 26.5, with local stronger silicified sections at 31.9-32.5, foliation is 25 degrees to the core axis. Gradational downhole contact.
36.8 - 37.6 Moderately silicified with 1-2% fine grained disseminated pyrite.

38.2 46.1 SHEARED BASALT; 1am

Fine grained, well foliated, medium greenish-grey, locally magnetic, non-carbonated volcanic, with 15-20% granodioritic intervals of various thicknesses (1.3m-10cm). Locally abundant pyrite, upto 10% over 20cm. Pyrite appears as thin (1-2mm wide) stringers and bands parallel to the foliation. Foliation is 40 degrees to the core axis. The sulphides are predominantly associated with the granodioritic intervals and near the granodiorite/volcanic contacts.

38.2 - 38.4 5% pyrite; pyrite is associated with quartz veining in a basaltic unit
38.8 - 39.0 10% pyrite in a very weakly porphyritic granodioritic unit; with 20%, 1-2mm diameter quartz grains (eyes) parallel to the foliation. 4am
39.7 - 40.1 10% pyrite in a weakly magnetic granodiorite, contacts are parallel to the foliation at 25 degrees to the core axis. Pyrite occurs disseminated and as stringers in a 4am.

ASSAY ** SAMPLE NUMBER: 1612 // 42.5 - 43.5m // 0.010 oz Au/ton

43.6 - 44.2 Poorly developed granodiorite; 4am; Only a weak remnant crystalline texture with sparse 3-5%, 1-2mm diameter quartz grains (eyes). Well foliated at 30 degrees to the core axis. Trace to 1% local pyrite stringers parallel to the foliation.

ASSAY ** SAMPLE NUMBER: 1613 // 43.5 - 44.8m // 0.245 oz Au/ton

46.1 71.4 GRANODIORITE; PROTOMYLONITE; 4am

Strong local mylonitic sections range from 50cm to 1m. Fine to medium grained, well foliated granodiorite, overall a medium grey colour with local pinkish-orange-grey zones (30-50 cm wide) near the downhole contact. Strong, local pyrite banding parallel to the foliation at 30 degrees to the core axis. Generally a well preserved crystalline texture with 2-3mm diameter quartz eyes oriented somewhat parallel to the foliation. Sharp downhole contact at 30 degrees to the core axis.

46.3 - 46.75 10-15%, 2-3mm wide pyrite bands parallel foliation, wealky magnetic.
48.3 Magnetic section with minor biotite alteration.
47.2 - 47.6; 48.7 - 49.0; 50.5 - 50.9; 51.4-51.75; 5-10%, 2-3mm wide pyrite bands parallel foliation, with weak magnetic zones.
53.4 - 54.0 2-3% pyrite, as disseminated and as hairline stringers.
56.35 - 56.5 Basaltic interval, sharp contacts
58.8 - 59.1 & 59.7 - 59.85 Basaltic interval, weakly foliated, non-siliceous, sharp contacts parallel foliation 25 degrees to the core axis, rare pyrite on foliation planes.
63.1 - 63.8 & 64.15 - 65.4 Granodiorite, quartz-feldspar porphyry with 40%, 2-3mm diameter, subhedral crystals.
61.5 - 62.5; 63.8 - 64.15; 65.2 - 62.9 Strong Mylonite Sections. Fine grained, somewhat porphyritic 20%, 1-2mm diameter quartz grains in a siliceous aphanitic felsic, flesh coloured matrix. 10-15% brown biotite defines the foliation, 20 degrees to the core axis. Trace to 1% local hairline pyrite stringers parallel foliation.

71.4 78.25 BASALT; 1a

Fine grained, weakly foliated, medium green basalt. 30%, biotite defines the foliation; 20 degrees to the core axis. Non-magnetic, non-carbonated, non-siliceous, relatively homogenous unit. Rare, 1-2% hairline quartz-carbonate stringers, trace pyrite. Sharp downhole contact 20 degrees to the core axis.

73.95 - 76.8 Granodiorite; 4am
Similar to granodiorite unit above, with sharp uphhole and downhole contacts at 35 and 45 degrees to the core axis, respectively. Trace pyrite.
76.2 - 76.3 Basalt interval
77.35 - 77.8 Granodiorite; 4am
Similar to granodiorite unit above, sharp uphole and downhole contacts at 20 and 75 degrees to the core axis, respectively.

78.25 84.8 GRANODIORITE; PROTOMYLONITE; 4am

Similar to granodiorite unit above, sharp downhole contact at 90 degrees to the core axis.

79.0 - 82.8 Strongly silicified Mylonitized granodiorite. Fine to medium grained, moderately foliated, light grey unit, non-carbonated with upto 80% silica. 10-15% fine grained biotite defines the foliation at 20 degrees to the core axis. 1% disseminated pyrite. Gradational contacts.

84.8 123.8 BASALT; 1a

Very fine to medium grained, weak to moderate foliation, medium green-grey in colour. 30-35% biotite defines the foliation. Non-magnetic, non-carbonated, locally coarser grained, but predominantly a fine gained unaltered flow, with local protomylonitic sections (range from 20-70cm wide).Trace to 1% local pyrite. This unit is very fine grained near the uphole contact.

84.8 - 86.75 Very fine grained, medium dark grey flow. Minor, local microfault at 85.1 with a displacement of 2mm.
86.75 - 87.2 Similar to 71.4 - 78.25; Distinct uphole and downhole contacts at 15 and 45 degrees to the core axis respectively.
87.2 - 87.3 Granodiorite dyklet, similar to the granodiorite unit between 78.25 - 84.8
87.3 - 87.6 Similar to 84.8 -. 86.75 Basalt; 1% pyrite associated with a thin 3mm wide quartz-carbonate stringer.
87.6 - 109.2 Fine to medium grained basalt; massive to very weakly foliated, greenish-grey coloured volcanic flow. 5-20%, 2-5mm diameter anhedral to subhedral, white

plagioclase crystals.
92.2 3cm wide milky white quartz vein at 65 degrees to the core axis.
109.2 - 111.2 Granodiorite dyke; silicified, fine to medium grained, mafic minerals define the foliation, 30 degrees to the core axis 20-25% mafics (biotite and hornblende?) Trace pyrite, non-carbonated, light grey coloured unit.
113.5 - 114.5 Protomylonitic basalt; 1%, hairline pyrite stringers parallel to the foliation at 35 degrees to the core axis.
114.3 chlorite-quartz-carbonate stringer, 2-3 cm wide with a trace pyrite.
114.55 2cm wide quartz-carbonate stringer
115.4 - 116.0 10% quartz-carbonate stringers with biotite alteration and trace pyrite.
116.9 - 117.25 Chlorite alteration associated with quartz-carbonate stringers, 1% hairline pyrite stringers parallel foliation.
119.5 - 120.1 Protomylonitic basalt; 50% chlorite alteration associated with quartz-carbonate stringers, 1% pyrite stringers parallel foliation.
121.0 - 121.9 & 123.1 - 123.8 Chlorite alteration associated with wispy quartz-carbonate stringers. Trace to 1% pyrite, hairline stringers parallel foliation. Sharp downhole contact 20 degrees to the core axis.

123.8 128.7 GRANODIORITE; PROTOMYLONITE; 4am

Medium to coarse grained, weakly foliated, medium grey overall colour. Trace to 1% local hairline pyrite stringers. Obstructed, broken downhole contact. Locally siliceous, this granodiorite unit is similar to 46.1-71.4

124.1 - 124.15 & 127.95 - 128.3 Basalt; 1% pyrite, 10% chlorite - quartz - carbonate stringers, obstructed, broken contacts.

128.7 148.4 BASALT; PROTOMYLONITE; 1am

Fine grained, weak to moderately foliated, greenish - grey overall colour. Minor, somewhat undeformed, intervals. Local, weak to moderately silicified sections (upto 50% silica), locally magnetic and minor chlorite

associated with quartz stringers. Trace pyrite, pyrrhotite.

133.45 - 134.15 Strong chlorite alteration associated with thin (1-2cm wide) quartz stringers.
133.9 5% pyrrhotite over 10cm
134.5 - 135.9 80% silica, weakly magnetic (1-2% pyrrhotite). Minor, microfault at 135.4 with a displacement of 3mm.
139.4 - 140.6 Locally upto 80% silica, with local magnetic sections, non-carbonated.
143.45 - 144.05 Unsilicified basalt, 20% biotite alteration, non-carbonated with weak magnetic sections (pyrrhotite?)

148.4	148.4	END OF HOLE

DIAMOND DRILL HOLE LL-89-11

Location: Line 14+00W; 7+50S

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1583	3.0	3.6	0.6	0.001	
1584	3.6	5.0	1.4	<0.001	
1585	5.0	6.5	1.5	0.002	
1585	5.0	6.5	1.5	0.001	check
1586	6.5	8.0	1.5	0.001	
1587	8.0	9.3	1.3	<0.001	
1588	9.3	10.9	1.6	<0.001	
1589	10.9	12.55	1.65	0.008	
1590	12.55	13.55	1.0	<0.001	
1591	13.55	15.0	1.45	<0.001	
1592	15.0	15.9	0.9	<0.001	
1593	15.9	17.4	1.5	<0.001	
1594	17.4	19.15	1.75	<0.001	check
1595	19.15	20.1	0.95	<0.001	
1596	20.1	21.2	1.1	<0.001	
1597	21.2	22.0	0.8	<0.001	
1598	22.0	23.5	1.5	<0.001	
1599	23.5	24.9	1.4	<0.001	
1600	24.9	26.5	1.6	<0.001	
1601	26.5	27.5	1.0	0.001	
1602	27.5	29.1	1.6	<0.001	
1603	29.1	30.5	1.4	<0.001	
1604	30.5	31.9	1.4	0.001	
1605	31.9	33.35	1.45	0.001	
1606	33.35	34.9	1.55	0.001	
1607	34.9	36.3	1.4	<0.001	
1608	36.3	38.2	1.9	<0.001	
1609	38.2	40.1	1.9	0.003	
1610	40.1	41.6	1.5	0.001	
1611	41.6	42.5	0.9	0.002	
1612	42.5	43.5	1.0	0.010	
1612	42.5	43.5	1.0	0.011	check
1613	43.5	44.8	1.3	0.245	
1614	44.8	46.4	1.3	0.001	
1615	46.1	47.6	1.5	0.003	
1616	47.6	49.0	1.6	0.002	
1617	49.0	50.5	1.5	0.002	
1618	50.5	52.0	1.5	0.003	
1619	52.0	53.5	1.5	0.001	
1620	53.5	55.0	1.5	<0.001	
1621	55.0	56.5	1.5	<0.001	
1621	55.0	56.5	1.5	0.001	check
1622	56.5	57.9	1.4	0.001	
1623	57.9	58.75	0.85	0.001	
1624	58.75	60.15	1.4	0.001	
1625	60.15	61.6	1.45	0.001	
1626	61.6	63.1	1.5	0.002	

1627	63.1	64.6	1.5	0.001	
1628	64.6	65.9	1.3	0.001	
1629	67.2	68.7	1.5	0.001	
1630	68.7	70.15	1.45	<0.001	check
1631	70.15	71.4	1.25	<0.001	
1632	71.4	72.9	1.5	0.001	
1633	75.3	76.8	1.5	<0.001	
1634	76.8	78.25	1.45	<0.001	
1635	78.25	79.0	0.75	<0.001	
1636	79.0	80.5	1.5	<0.001	
1637	80.5	82.0	1.5	0.001	
1638	82.0	82.8	0.8	0.002	
1639	82.8	84.4	1.6	<0.001	check
1640	84.8	86.75	1.95	<0.001	
1641	86.75	88.0	1.25	<0.001	
1642	90.5	91.8	1.3	0.003	
1643	91.8	93.3	1.5	0.001	
1644	94.7	96.3	1.6	<0.001	
1645	98.7	99.7	1.0	0.006	
1646	102.7	103.7	1.0	0.001	
1647	105.3	106.3	1.0	0.001	
1648	107.9	109.2	1.3	0.003	
1648	107.9	109.2	1.3	0.002	check
1649	109.2	110.2	1.0	0.001	
1650	110.2	112.05	1.85	0.001	
1651	112.05	113.5	1.45	0.003	
1652	113.5	114.9	1.4	0.004	
1653	115.2	116.2	1.0	0.001	
1654	116.45	117.45	1.0	0.002	
1655	118.0	119.5	1.5	0.001	
1656	119.5	120.5	1.0	0.001	
1657	122.3	123.8	1.5	0.002	
1657	122.3	123.8	1.5	0.005	check
1658	123.8	124.8	1.0	0.001	
1659	125.0	126.0	1.0	0.001	
1660	127.8	128.7	0.9	<0.001	
1661	129.1	130.6	1.5	0.001	
1662	132.8	134.15	1.35	<0.001	
1663	134.15	135.9	1.75	<0.001	
1664	139.4	140.6	1.2	<0.001	
1665	140.8	142.3	1.5	<0.001	
1666	142.3	143.5	1.2	<0.001	check
1667	143.5	144.05	0.55	<0.001	
1668	144.05	145.1	1.05	<0.001	
1669	145.1	146.55	1.45	<0.001	
1670	146.55	147.95	1.4	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-12 LOCATION: Line 12+00W; 4+40S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 142.3m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 2.55m

STARTED: March 20, 1989 FINISHED: March 21, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.96m -44 degrees
121.9m -48 degrees
142.3m -49 degrees

FOOTAGE From	To	DESCRIPTION
0.0	2.55	OVERBURDEN
2.55	31.4	GRANODIORITE; BIOTITIC; 4a Medium pinkish-grey, medium grained (2-3mm), massive, equigranular , 10-15% quartz, 10-15% biotite, 70-80% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite, local basalt inclusions, locally common, light green, silica-filled fractures-veinlets-irregular, random, narrow (1-10mm), local stockwork. Type 4a. 4.8 - 5.2 Extensive contamination from basalt 4.1 - 5.6 Common-extensive, light green silica veinlets - local stockwork 18.8 - 19.1 Common silica veinlets 25.0 - 25.3 Extensive silica veinlets to stockwork development 26.5 - 26.65 Extensive silica veinlets to stockwork 28.1 - 28.5 Common to extensive silica veinlets; local stockwork 29.4 - 31.4 Common silica veinlets; local stockwork. Sharp contact

31.4	41.5	HORNBLENDITE; 3b	2

Dark grey-black medium grained (2-3mm), massive, equigranular, >90% hornblende, low-high magnetite content, variable pyrite-nil to 5% as disseminated blebs and stringers, common granodiorite contamination, local, minor silica veinlets-irregular, random, narrow (1-5mm). Type 3b

31.4 - 37.6 Common granodiorite contamination
33.7 - 33.85 2% disseminated pyrite
34.4 - 38.35 2-5% pyrite, disseminated, blebs and stringers
38.7 - 39.0 2-5% pyrite

Sharp contact

41.5	47.85	GABBRO; 2a

Dark grey, medium grained (2mm), massive, equiganular, 35-45% plagioclase, 55-65% pyroxene, $\leq$0.5% pyrite, common to locally extensive silica veinlets-irregular, random, narrow (1-5mm), local stockwork, local talc development along fractures. Type 2a

41.5 - 42.0 Extensive silica veinlets; local silicification to 50%
42.0 - 42.9 Extensive talc development along fractures-broken core; fault (?).

Gradational contact

47.85	55.5	BASALT FLOW; (POSSIBLE KOMATIITE ?); 1a

Dark grey, fine grained (<1mm), massive, 25-35% plagioclase, 65-75% pyroxene, low-high magnetite content, $\leq$0.5% disseminated pyrite, common gabbro contamination near contact, common talc development along fractures-locally extensive; common, locally developed silica veinlets. Type 1a (kom.?).

47.85 - 53.8 Weak talc alteration along fractures
48.15 - 48.35 Extensive fracturing; fault(?)
50.65 - 51.3 Extensive fracturing; fault(?)
51.7 - 52.5 Extensive fracturing; fault(?)
53.8 - 55.5 Moderate-strong, pervasive talc alteration; local extensive fracturing from 54.5 - 55.0; fault (?)

Gradational contact

55.5 67.9 BASALT FLOW; (THOLEIITE ?); 1a

Similar to Type; less mafic, 45-50% plagioclase, 50-55% pyroxene, no magnetite, common (5%) to locally extensive silica veinlets - irregular, random, narrow (1-5mm), local stockwork, local silicification, little or no talc alteration, $\leq$0.5% disseminated pyrite - locally to 1%, weak foliation at 55 degrees to the core axis. Type 1a (thol.).

55.55 - 55.95 25-50% silica, stockwork of silica veinlets.
55.95 - 65.2 Common (5%) silica veinlets; local stockwork; local silica.
66.9 - 67.9 Moderate pervasive talc alteration, extensively fractured-broken; fault (?)

Sharp contact

67.9 94.4 BASALT FLOW; KOMATIITE ?; 1a

Same as Type 1a (kom.); magnetite content; weak - strong, fracture - controlled talc alteration.

70.7 - 71.9 Extensively fractured; fault zone; strong talc alteration
74.1 - 76.6 Moderate - strong talc alteration, extensive fracturing; local faults 74.5 - 75.0 & 76.4 - 76.6
80.6 - 83.3 Strong talc alteration, extensive fracturing; fault zone
83.5 - 84.4 Strong talc alteration, extensive fracturing; fault zone.
84.9 - 87.5 Strong talc alteration, extensive fracturing; fault zone.
90.3 - 91.2 Strong talc alteration, extensive fracturing; fault zone.
92.2 - 92.5 Strong talc alteration, extensive fracturing; fault zone.
92.9 - 93.2 Strong talc alteration, extensive fracturing; fault.

Sharp contact

94.4	98.65	GRANODIORITE; BIOTITIC; 4a

Similar to Type; 0.5% disseminated pyrite-locally to 2-3%, common to locally extensive silica veinlets - light green to grey, irregular, generally random, narrow (,1-5mm), local stockwork.

94.4 - 95.3 Extensive silica veinlets, local stockwork, 1-3% disseminated pyrite.
96.3 - 96.45 Pink, massive, aphanitic quartz vein.
97.0 - 97.3 Stockwork of silica veinlets.
97.6 - 98.4 70% pink, massive, aphanitic quartz veining.

Sharp contact

98.65	100.55	BASALT FLOW; 1a

Similar to Type 1a (thol.); 0.5% disseminated pyrite.

98.65 - 98.9 30% silicification.

Sharp contact

100.55	126.9	GRANODIORITE; 4a

Same as 94.4 - 98.65; common to locally extensive silica veinlets, local stockwork.

101.2 - 102.2 Very common (5-10%) to local stockwork silica veinlets
102.1 - 102.2; 2cm wide quartz vein.
103.8 - 105.4 Very common (5-10%) to local stockwork of silica veinlets.
108.8 - 110.0 Very common (5-10%) to local stockwork of silica veinlets.
123.7 - 126.9 Extensive ($\geq$10%) to stockwork of silica veinlets.

Sharp contact

126.9	129.3	BASALT FLOW; 1a

Similar to Type 1a (thol.); weak - moderate, pervasive talc alteration.

Sharp contact

129.3	142.3	GRANODIORITE; 4a

Same as 100.55 - 126.9; common to extensive silica veinlets, local stockwork and pervasive silicification, 0.5% pyrite.

129.3 - 131.6 Common to extensive (5-15%) silica veinlets, local stockwork.
131.6 - 132.65 Extensive (15-25%) silica veinlets, common stockwork, local pervasive silica.
132.65 - 137.8 Pervasive silica veinlets-stockwork grading to 100% silica; local quartz veinlets to 2cm widths, local foliation at 65 degrees to the core axis.
137.8 - 142.3 Common to (5%) silica veinlets; local quartz veinlets upto 1cm width; concentration of veinlets decreases downhole to 1-2% at 142.3.

142.3	142.3	END OF HOLE

DIAMOND DRILL HOLE LL-89-12

Location: Line 12+00W; 4+40S

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1672	2.55	4.1	1.55	0.001	
1673	4.1	5.6	1.5	0.001	
1674	8.2	9.2	1.0	<0.001	
1675	12.9	14.4	1.5	<0.001	
1676	18.1	19.6	1.5	<0.001	
1677	24.2	25.3	1.1	0.001	
1678	26.4	27.4	1.0	<0.001	
1679	28.1	29.6	1.5	<0.001	
1680	29.6	30.6	1.0	0.001	
1681	30.6	31.4	0.8	0.001	check
1682	33.1	35.2	2.1	0.001	
1683	35.2	36.7	1.5	0.001	
1684	36.7	38.2	1.5	0.001	
1685	38.2	39.0	0.8	0.002	
1686	41.0	42.0	1.0	0.001	
1687	43.5	44.5	1.0	<0.001	
1688	50.5	52.0	1.5	<0.001	
1689	52.0	52.6	0.6	0.001	
1690	54.2	55.5	1.3	0.001	
1690	54.2	55.5	1.3	<0.001	check
1691	55.5	57.0	1.5	<0.001	
1692	57.0	58.5	1.5	0.001	
1693	58.5	60.0	1.5	<0.001	
1694	60.0	61.5	1.5	0.001	
1695	61.5	63.0	1.5	<0.001	
1696	63.0	64.5	1.5	<0.001	
1697	64.5	65.2	0.7	<0.001	
1698	66.9	67.9	1.0	0.002	
1699	70.4	71.6	1.2	0.001	
1699	70.4	71.6	1.2	<0.001	check
1700	73.1	74.1	1.0	<0.001	
1701	74.1	75.6	1.5	0.001	
1702	75.6	77.1	1.5	0.002	
1703	80.6	82.1	1.5	<0.001	
1704	82.1	83.0	0.9	0.001	
1705	83.0	83.9	0.9	<0.001	
1706	83.9	85.4	1.5	<0.001	
1707	85.4	86.8	1.4	0.001	
1708	86.8	87.8	1.0	<0.001	check
1709	90.2	91.2	1.0	<0.001	
1710	91.9	92.5	0.6	<0.001	
1711	92.5	93.6	1.1	<0.001	
1712	94.4	95.6	1.2	0.001	
1713	95.6	97.1	1.5	<0.001	
1714	97.1	98.4	1.3	<0.001	
1715	98.4	99.4	1.0	<0.001	
1716	101.2	102.3	1.1	<0.001	

1717	103.8	105.4	1.6	<0.001	
1717	103.8	105.4	1.6	0.001	check
1718	107.0	108.0	1.0	0.001	
1719	108.8	110.3	1.5	0.001	
1720	113.4	114.9	1.5	<0.001	
1721	117.6	119.1	1.5	<0.001	
1722	119.1	120.5	1.4	<0.001	
1723	120.5	122.0	1.5	0.001	
1724	122.0	123.4	1.4	0.001	
1725	123.4	124.9	1.5	<0.001	
1726	124.9	125.9	1.0	<0.001	
1726	124.9	125.9	1.0	0.001	check
1727	125.9	126.9	1.0	0.001	
1728	129.2	130.7	1.5	<0.001	
1729	130.7	132.2	1.5	<0.001	
1730	132.2	133.7	1.5	<0.001	
1731	133.7	134.85	1.15	<0.001	
1732	134.85	136.35	1.5	<0.001	
1733	136.35	137.8	1.45	<0.001	
1734	137.8	139.3	1.5	<0.001	
1735	140.9	141.9	1.0	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-13 LOCATION: Line 11+75W; 4+32.5S

AZIMUTH: 170 degrees DIP: -50 degrees LENGTH: 197.2m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 1.75m

STARTED: March 22, 1989 FINISHED: March 24, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS:

63.1m	-48.5 degrees
124.05m	-47 degrees
197.2m	-46 degrees

FOOTAGE From	To	DESCRIPTION
0.0	1.75	OVERBURDEN
1.75	6.4	GRANODIORITE; BIOTITIC; 4a Medium pinkish-grey, fine-medium grained (1-2mm), massive, equigranular, 10-15% quartz, 10% biotite, 75-80% feldspar, plagioclase > K-feldspar, ≤0.5% disseminated pyrite, common silica veinlets - locally extensive to stockwork-light green, irregular, random and narrow (1-5mm), local silicification. Type 4a. 3.8 - 4.5 Extensive (10%) silica veinlets; 3.9 - 4.1 80-100% silicification 5.1 - 5.35 Extensive (30%) silica veinlets; 6.1 - 6.4 10-15% silica veinlets. Sharp contact
6.4	12.85	GABBRO; 2a Dark grey, medium grained (2mm), massive, equigranular, 25-35% plagioclase, 65-75% pyroxene, occasional calcite or silica veinlets - irregular - straight, random, narrow (<1-2mm). Type 2a.

12.25 - 12.85 5% silica veinlets; local silica

Sharp contact

12.85	33.8	BASALT FLOW; 1a

Dark grey, fine grained (<1mm), massive, composition: 30-40% plagioclase, 60-70% pyroxene, <0.5% disseminated pyrite, common silica and calcite veinlets-irregular to straight, random, narrow (1-10mm), common gabbro contamination, local, minor talc development along fractures. Type 1a.

16.3 - 17.4 Common to locally extensive stockwork (5-40%) of silica veinlets.
21.2 - 21.6 5% quartz veinlets up to 1.5cm width.
22.4 - 23.95 50-100% gabbro contamination
24.6 - 25.7 Common (2-5%) quartz veinlets
25.8 2cm wide quartz vein
25.9 - 26.3 Extensive gabbro contamination
26.9 - 27.3 Extensive gabbro contamination
27.2 - 28.1 Common (5%) quartz veinlets; 10-40% silica.

Gradational contact over 30 cm.

33.8	38.9	GABBRO; 2a

Dark grey, medium grained (2-3mm), massive, equigranular, 50% plagioclase, 50% pyroxene, 0.5% disseminated pyrite-locally to 1%, local basalt inclusions and contamination, common, pink, aphanitic quartz veins sub-parallel to core axis.

Gradational contact over 50 cm.

38.9	44.05	BASALT FLOW; 1a

Same as Type

39.4 - 39.8 Common silica veinlets (5-10%); local silica to 100%
40.5 - 41.1 Common (5%) silica veinlets; common silica (50-100%).
41.75 - 42.4 50% silica alteration

Gradational contact over 20cm

44.05	59.1	GABBRO; DIORITE; 2a

Similar to 33.8 - 38.9; common basalt inclusions and contamination, minor silica veinlets.

48.9 - 53.1 Mixed section - gabbro with very common basalt inclusions, contamination and narrow intervals.
52.5 - 52.75 Pervasive (50%) stockwork of light green silica veinlets.
54.2 - 55.05 Interval of mainly basalt
55.8 - 56.8 Interval of mainly basalt; talc alteration along fractures, extensive broken core.
** 52.7 - 56.4 Mixed up core by drillers.

Sharp contact

59.1	61.4	FELSIC MYLONITE; 6

Light buff-grey, aphanitic, massive, 100% silicification, 1% fine, disseminated pyrite, 5% light green-grey silica veinlets - irregular to straight, random, narrow (1-5mm). Type 6.

Sharp contact

61.4	64.25	MAFIC VOLCANIC; PROTOMYLONITE - MYLONITE; 1am

Medium grey, aphanitic - very fine grained (<1mm), weak, tight (<1mm) foliation at 25-30 degrees to the core axis consisting of alternating light/dark bands, variably silicified from 50-100%, 0.5-1% disseminated pyrite, 1-2% silica veinlets - irregular to straight, random, narrow (1-5mm). Type 1am.

Gradational contact

64.25	70.15	FELSIC MYLONITE; 6

Similar to Type; massive to weak foliation at 30-40 degrees to the core axis, 70-100% silica, 0.5-1% disseminated pyrite, common to extensive (5-20%) silica veinlets - local stockwork.

67.4 - 67.6 Talc alteration along fractures; no silica

		68.1 - 68.3 Talc alteration along fractures; no silica Sharp contact
70.15	72.8	GABBRO; 2a Similar to Type; 0.5-1% disseminated pyrite, 1-2% silica veinlets Sharp contact
72.8	75.55	FELSIC MYLONITE; 6 Same as Type; weak foliation at 25-30 degrees to the core axis, consisting of alternating light/dark bands, 100% aphanitic silica, 0.5-1% disseminated pyrite. Sharp contact
75.55	76.25	BASALT FLOW; (KOMATIITE ?); 1a Dark grey, fine grained (<1mm), massive, 20-30% plagioclase, 70-80% pyroxene, significant magnetite content, ≤0.5% disseminated pyrite, local silica, local common silica veinlets. Gradational contact
76.25	76.95	MAFIC VOLCANIC MYLONITE; 1am Similar to type; weak foliation at 25-30 degrees to the core axis, variably silicified from 10-100%, common to extensive stockwork (10-50%) of silica veinlets, 0.5-1% disseminated pyrite. Sharp contact
76.95	78.45	GABBRO; 2a Same as Type Sharp contact
78.45	80.6	BASALT ASH FALL TUFF; 1c Dark grey, fine grained (<1mm), massive, plagioclase 50%; pyroxene 50%, 0.5% disseminated pyrite. Type 1c.

79.05 - 79.3 Basalt flow

Sharp contact

80.6	83.7	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak to well developed foliation at 25-30 degrees to the core axis, variably silicified (10-100%), local silica veinlets generally parallel to the foliation, 0.5-1% disseminated pyrite.
80.6 - 81.9 50-75% silica
81.9 - 83.7 75-100% silica

Sharp contact

83.7	91.9	GABBRO; 2a

Same as Type; 1-2% silica veinlets, <0.5% disseminated pyrite

86.1 - 86.3 1-2cm light grey-pink quartz vein sub-parallel to the core axis.

Sharp contact

91.9	96.15	FELSIC MYLONITE; 6

Same as Type; 100% silicification, massive to foliated at 25-30 degrees to the core axis, 0.5% disseminated pyrite.

Sharp contact

96.15	98.6	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; foliation at 25-30 degrees to the core axis, 100% silica, 0.5% pyrite.

97.1 - 97.6 50-75% silicified basalt ash fall tuff, 1% pyrite. 1cm

Sharp contact

98.6	99.4	GABBRO; 2a

Same as Type.

99.4	104.6	MAFIC VOLCANIC PROTOMYLONITE -MYLONITE; 1am

Similar to Type; foliation at 25-30 degrees to the core axis, 100% silica, 0.5%

disseminated pyrite, local quartz veinlets.

100.1 - 100.5 Fine grained (1mm) gabbro dyke.
101.9 - 102.8 Remnant tuff (1-2mm) texture, 1cm.
102.8 - 103.1 Massive flow (1am)
103.1 - 104.6 Remnant tuff (1-2mm) texture; 1cm.

Sharp contact

104.6	107.8	GABBRO; 2a

Same as Type.

Sharp contact

107.8	136.4	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; foliation at 25-30 degrees to the core axis, 50-100% silica, 0.5-1% disseminated pyrite, 1-2% silica, veinlets, occasional quartz veinlet up to 1cm width.

110.0 - 111.6 Remnant tuff (<1-2mm) texture; 1cm.
113.7 - 113.9 Fine grained (1mm) gabbro dyke; 2a
116.9 - 117.35 Fine grained (1mm) gabbro dyke; 2a
120.0 - 121.1 1-2% pyrite as disseminations and stringers.
122.3 - 124.2 2-5% pyrite as disseminations and as stringers.
125.1 - 125.6 Remnant tuff (1-2mm) texture; 1cm
126.2 - 126.35 Grey quartz vein; 1-2% pyrite
135.6 - 136.1 Remnant tuff (<1mm) texture; 1cm
136.1 - 136.4 1-2% disseminated pyrite

Sharp contact

136.4	143.2	GABBRO; 2a

Same as Type; 0.5-1% disseminated pyrite.

Sharp contact

143.2	151.7	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Similar to Type; foliation at 25 degrees to the core axis, 75-100% silica, 1% silica veinlets, 0.5% disseminated pyrite, locally to 2%, occasional grey quartz veinlets up to 1cm widths.
		Sharp contact
151.7	153.2	GABBRO; 2a
		Similar to Type; fine grained (1-2mm)
		Sharp contact
153.2	163.25	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Same as 143.2 - 151.7
		154.7 - 162.2 Common (2-10%) silica veinlets light grey, generally irregular, random, narrow (1-10mm), local stockwork.
		Sharp contact
163.25	166.05	GABBRO; 2a
		Similar to Type; fine grained (1-2mm).
		Sharp contact
166.05	180.95	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am
		Similar to Type; foliation at 25-30 degrees to the core axis, 75-100% silica, 0.5% disseminated pyrite, 1% silica veinlets, occasional quartz veinlets up to 1cm.
		171.7 - 172.2 1-2% disseminated pyrite 172.4 - 172.8 Fine grained (1mm) remnant tuff; 1cm. 173.0 - 173.6 10% silica veinlets 173.55 - 173.9 Fine grained (1mm) remnant tuff; 1cm. 175.35 - 175.55 Fine grained (1mm) gabbro dyke; 2a 179.0 1.5cm wide grey quartz veinlet 180.2 - 180.7 Fine grained (1mm) remnant tuff; 1cm.
		Sharp contact

180.95	184.05	GABBRO; FELDSPAR PORPHYRY; 2b
		Dark grey, feldspar phenocrysts (2-5mm) in a fine grained (<1mm) groundmass, massive, porphyritic, 5-10% subhedral - euhedral plagioclase phenocrysts in a groundmass of about 25% plagioclase and 75% pyroxene, 0.5% pyrite, 1-2% silica veinlets. Type 2b.
		183.45 - 183.7 Fine grained (1mm) gabbro; 2a
		Sharp contact
184.05	197.2	MAFIC VOLCANIC MYLONITE; 1am
		Same as 166.05 - 180.95; foliation at 25 degrees to the core axis, 80-100% silica, <0.5% disseminated pyrite.
		191.5 - 191.65 Gabbro dyke; 2a 193.6 - 194.3 Fine grained (1mm) remnant tuff; 1cm
197.2	197.2	END OF HOLE

DIAMOND DRILL HOLE LL-89-13

Location: Line 11+75W; 4+32.5S

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL	ASSAY (oz/ton)	
1736	3.5	5.0	1.5	<0.001	
1737	5.0	6.4	1.4	<0.001	
1738	12.2	12.85	0.65	<0.001	
1739	14.8	16.3	1.5	<0.001	
1740	16.3	17.8	1.5	<0.001	
1741	20.4	21.9	1.5	0.001	
1742	24.6	25.4	0.8	<0.001	
1743	25.7	26.7	1.0	<0.001	
1744	28.6	29.6	1.0	<0.001	check
1745	31.3	32.4	1.1	0.001	
1746	36.3	37.3	1.0	0.001	
1747	39.3	40.3	1.0	0.001	
1748	40.3	41.3	1.0	<0.001	
1749	41.7	42.7	1.0	<0.001	
1750	49.0	50.3	1.3	<0.001	
1751	52.5	53.1	0.6	<0.001	
1752	55.8	56.8	1.0	<0.001	
1753	59.1	60.2	1.1	<0.001	check
1754	60.2	61.4	1.2	0.002	
1755	61.4	62.7	1.3	<0.001	check
1756	62.7	64.25	1.55	0.001	
1757	64.25	65.5	1.25	0.001	
1758	65.5	67.0	1.5	<0.001	
1759	67.0	68.3	1.3	<0.001	
1760	68.3	69.3	1.0	<0.001	
1761	69.3	70.15	0.85	<0.001	
1762	72.8	74.3	1.5	0.001	
1763	74.3	75.55	1.25	<0.001	
1764	75.55	76.95	1.4	0.008	
1765	80.6	82.1	1.5	<0.001	check
1766	82.1	83.0	0.9	<0.001	
1767	83.0	84.0	1.0	<0.001	
1768	85.9	86.4	0.5	<0.001	
1769	91.9	92.9	1.0	<0.001	
1770	92.9	94.4	1.5	<0.001	
1771	94.4	96.3	1.9	<0.001	
1772	96.3	97.75	1.45	<0.001	
1773	97.75	99.7	2.05	<0.001	
1774	99.7	100.7	1.0	<0.001	
1774	99.7	100.7	1.0	0.001	check
1775	100.7	101.7	1.0	<0.001	
1776	101.7	102.4	0.7	0.001	
1777	102.4	103.85	1.45	<0.001	

1778	103.85	104.6	0.75	<0.001	
1779	107.8	109.3	1.5	<0.001	
1780	109.3	110.9	1.6	<0.001	
1781	110.9	112.4	1.5	<0.001	
1782	112.4	113.9	1.5	0.001	
1783	113.9	115.1	1.2	0.001	check
1784	115.1	116.6	1.5	<0.001	
1785	116.6	118.15	1.55	<0.001	
1786	118.15	119.65	1.5	<0.001	
1787	119.65	121.0	1.35	<0.001	
1788	121.0	122.3	1.3	<0.001	
1789	122.3	123.3	1.0	0.003	
1790	123.3	124.3	1.0	0.002	
1791	124.3	125.8	1.5	0.001	
1792	125.8	127.3	1.5	0.002	check
1793	127.3	128.8	1.5	<0.001	
1794	128.8	130.3	1.5	0.001	
1795	130.3	131.8	1.5	<0.001	
1796	131.8	133.3	1.5	<0.001	
1797	133.3	134.8	1.5	<0.001	
1798	134.8	136.4	1.6	<0.001	
1799	143.2	144.7	1.5	<0.001	
1800	144.7	146.2	1.5	<0.001	
1801	146.2	147.7	1.5	<0.001	check
1802	147.7	149.2	1.5	<0.001	
1803	149.2	150.7	1.5	<0.001	
1804	150.7	151.7	1.0	<0.001	
1805	153.1	154.35	1.25	<0.001	
1806	154.35	155.85	1.5	<0.001	
1807	155.85	157.1	1.25	<0.001	
1808	157.1	158.6	1.5	<0.001	
1809	158.6	159.9	1.3	<0.001	
1810	159.9	161.4	1.5	0.001	check
1811	161.4	162.4	1.0	<0.001	
1812	162.4	163.25	0.85	<0.001	
1813	166.05	167.5	1.45	0.001	
1814	167.5	168.45	0.95	<0.001	
1815	168.45	169.95	1.5	0.002	
1816	169.95	171.45	1.5	<0.001	
1817	171.45	172.9	1.45	0.003	
1818	172.9	174.4	1.5	<0.001	
1819	174.4	175.5	1.1	<0.001	check
1820	175.5	177.0	1.5	<0.001	
1821	177.0	178.4	1.4	<0.001	
1822	178.4	179.9	1.5	<0.001	
1823	179.9	180.95	1.05	<0.001	
1824	184.05	185.35	1.3	<0.001	
1825	185.35	186.85	1.5	<0.001	
1826	186.85	188.3	1.45	<0.001	
1827	188.3	189.5	1.2	0.001	
1828	189.5	191.0	1.5	<0.001	check
1829	191.0	192.5	1.5	<0.001	
1830	192.5	194.0	1.5	<0.001	
1831	194.0	195.5	1.5	<0.001	

1832	195.5	197.2	1.7	<0.001 check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-14 LOCATION: Line 18+00W; 4+35S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 194.1m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 11.4m

STARTED: March 27, 1989 FINISHED: March 29, 1989

LOGGED BY: Viera Kovac SYSTEM: Metric

ACID TESTS: 60.95m -48 degrees
121.9m -46 degrees
194.1m -43 degrees

FOOTAGE From	To	DESCRIPTION
0.0	11.4	OVERBURDEN
11.4	54.9	MAFIC VOLCANIC; KOMATIITE ?; 1a Aphanitic to very fine grained, weak to locally moderately foliated, purplish-grey colour overall, with local light to medium grey sections. Magnetic, locally carbonated, hard and blocky in sections. Pervasive carbonate near the uphole contact associated with quartz stringers parallel to the foliation at 55 degrees to the core axis. Minor reddish, hematitic staining associated with 1% pyrite. Pyrite is generally associated with quartz-carbonate stringers. Minor basaltic intervals ranging from 1-5m. 11.4 - 12.5 10% quartz-carbonate stringers parallel to the foliation, reddish and greenish staining (alteration?) associated with quartz-carbonate stringers. 1% pyrite (pyrrhotite??) parallel to the foliation, local,minor 1mm diameter magnetite crystals. 17.4 - 18.05 Komatiite Aphanitic to very fine grained, well foliated, ligh grey magnetic, moderately well carbonated with local pervasive sections. Very minor reddish staining (hematite?), associated with quartz-carbonate

stringers. Trace pyrite. Gradational uphole contact; broken, obscured downhole contact.
18.05 - 20.25 Basalt
Fine grained, massive, medium green, non-magnetic, non-carbonated unit with very sparse <3%, thin (2-3mm wide) quartz-carbonate blebs. Very minor, local light green talc altered veinlets 2mm wide. 5% biotite alteration, trace pyrite, Sharp downhole contact 40 degrees to the core axis.
20.25 - 20.6 Komatiite
Similar to 17.4 - 18.05, sharp downhole contact, perpendicular to the core axis.
20.6 - 21.35 Pyroxene Porphyry Dyke
40%, 5mm diameter subhedral to euhedral pyroxene crystals in a very fine grained 15-20% brown and black biotite rich matrix. Broken, obscured downhole contact.
21.35 - 25.4 Komatiite
Similar to 17.4 - 18.05, with a 10cm wide quartz-carbonate vein near the downhole contact.
25.4 - 30.7 Basalt
Fine grained, weakly foliated, medium green unit with 30-40% brown biotite alteration. Non-magnetic, non-carbonated. Trace local disseminated pyrite, abundant (15%) hairline quartz stringers randomly oriented. Local, very minor talc alteration associated with quartz-carbonate veinlets. Broken, obscured uphole contact and downhole contact.

ASSAY ** SAMPLE NUMBER: 1842 // 28.5 - 29.9m // 0.010 oz Au/ton

26.1 - 26.7 Komatiite interval; 90% blocky core.
30.7 - 34.4 70% blocky core
35.3 - 35.6 Quartz-carbonate vein
35.7 - 37.1 Minor, 2-3% hematitic staining
40.8 - 41.8 Basalt
20-25% biotite alteration, fine grained, weakly foliated unit at 40 degrees to the core axis. Non-magnetic with sparse 2% thin (1-2mm wide) quartz-carbonate stringers parallel foliation. Minor hematitic stained chlorite. Broken, obscured uphole and downhole contacts.
42.4 - 44.8 1-2% hematitic stained chlorite
49.0 - 63.1 50% blocky core

54.9	64.85	BASALT; 1a

Aphanitic to very fine grained, massive to locally very weakly foliated, greenish-grey unit with 5% biotite alteration. Non-magnetic, minor komatiitic intervals (20-50cm wide). Rare greenish talc altered veinlets, 2-3mm wide. Very minor, local reddish hematitic staining with sparse (<3%) wispy carbonate stringers. Trace pyrite. Locally very blocky core. Sparse <3% wispy carbonate stringers. Gradational downhole contact

64.85	79.1	BASALT; KOMATIITE?; 1a

Very fine grained, massive, magnetic, medium to dark grey, mon-carbonated unit with 3-5% black hairline stringers randomly oriented. Rare, thin (3-4mm wide) carbonate stringers predominantly 55 degrees to the core axis. Rare trace pyrite on fractured surfaces. Very minor (<1%) black biotite associated with quartz-carbonate stringers.

69.7 - 69.8 4cm wide bottle green quartz-carbonate vein.

79.1	79.8	DIORITE DYKE; 2c

Fine grained to medium grained, massive, medium grey, crystalline with a weak salt and pepper texture. 5% mafic minerals (biotite/hornblende); 50% plagioclase; 2% pyrite; 3% pyrrhotite. Sharp uphole and downhole contacts perpendicular to the core axis.

79.8	87.0	HORNBLENDITE; 3b

Medium to coarse grained, massive, medium green, mon-magnetic unit. Rare, thin (1-2mm wide) wispy carbonate stringers. 99%, 5mm-2cm long euhedral hornblende crystals. Crystalline texture, with no visible sulphides. Broken obscured downhole contact.

87.0	100.2	MAFIC VOLCANIC BRECCIA; 1a

Predominantly brecciated flow composed of 45%, 1mm diameter to 3cm X 8cm elongated, lensoidal, light to medium grey lithic clasts in a very fine grained, greenish-grey matrix.

Magnetic, non-carbonated unit, moderately foliated 35 degrees to the core axis. Broken, obscured downhole contact.

89.95 - 90.75 Felsic Dyke
Fine grained, massive, medium grey, magnetic weakly carbonated dyke with 1% biotite alteration and 1% pyrite, 1-2% pyrrhotite. Sharp uphole and downhole contact at 35 degrees to the core axis.

100.2 169.5 BASALT; KOMATIITE?; 1a

Aphanitic to fine grained, massive to locally very weakly foliated, medium grey unit. Magnetic with sparse 5%, black hairline stringers, very rare carbonate and trace rare pyrite.

97.5 - 108.7 25% blocky core
109.4 - 109.8 30% carbonate alteration
116.8 - 117.6 Amphibolite with 2% carbonate alteration with minor reddish hematitic staining associated with carbonate.
117.6 - 118.2 100% blocky core
118.0 - 122.2 Basalt
Fine grained, massive, medium green, non-magnetic with sparse, 2% thin (2mm wide) wispy carbonate stringers. Rare trace pyrite. Obscured, broken uphole and downhole contacts.
121.1 - 128.8 15% blocky core
133.2 - 135.0 3% thin greenish talc-carbonate stringers randomly oriented.
139.7 - 153.0 20% blocky core
156.3 - 164.7 20% blocky core

169.5 170.8 BASALT; 1a

Fine grained, strongly foliated, pale green, talcose unit with a very porous appearance. Foliation is 35 degrees to the core axis. Non-magnetic, non-carbonated, no visible sulphides, Minor, thin quartz-carbonate stringers near the uphole contact. Broken and blocky gradational uphole contact, broken, obscured downhole contact.

169.4 - 169.8 100% blocky core

170.8	194.1	GRANODIORITE; MYLONITE; 4a

Locally siliceous, coarse grained, weak to strongly foliated, tan to pinkish-orange unit. Where the core is coare grained it is equigranular, however, the siliceous strongly mylonitized sections are very fine grained, some mylonitized sections are deformed (microfolded and faulted). Minor microfaults near the uphole contact with a displacement of 1-2mm. No visible sulphides,non-magnetic, non-carbonated with sparse (5%), thin (1-3mm) wide, quartz-carbonate stringers, predominantly at 35 degrees to the core axis.

170.8 - 172.1 Moderate to strongly mylonitized section with a foliation 35 degrees to the core axis.
173.0 - 173.5 Strongly mylonitized section with minor folding, very siliceous.
176.9 - 178.0 Weak to moderately mylonitized section.

194.1	194.1	END OF HOLE

DIAMOND DRILL HOLE LL-89-14

Location: Line 18+00 West; 4+35 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY (oz/ton)	
1833	11.4	12.8	1.4	0.001	
1834	12.8	14.3	1.5	<0.001	
1835	17.4	18.05	1.5	<0.001	
1836	18.05	18.9	0.85	0.001	
1837	18.9	20.25	1.35	0.001	
1838	20.25	20.6	0.35	0.001	
1839	24.0	25.4	1.4	<0.001	
1840	25.4	26.8	1.4	0.001	
1841	26.8	28.5	1.5	0.002	
1842	28.5	29.9	1.4	0.005	
1842	28.5	29.9	1.4	0.010	check
1843	29.9	30.7	0.8	0.001	
1844	30.7	32.0	1.3	<0.001	
1845	34.5	35.7	1.2	0.001	
1846	35.7	37.1	1.4	<0.001	
1847	40.8	41.8	1.0	<0.001	
1848	41.8	42.8	1.0	0.001	
1849	42.4	44.8	2.4	0.001	
1850	47.9	49.0	1.1	<0.001	
1851	52.2	53.7	1.5	<0.001	
1851	52.2	53.7	1.5	0.001	check
1852	53.7	55.0	1.3	0.001	
1853	55.0	56.0	1.0	<0.001	
1854	60.0	61.35	1.35	<0.001	
1855	63.1	64.1	1.0	<0.001	
1856	68.0	69.2	1.2	<0.001	
1857	69.2	70.3	1.1	<0.001	
1858	72.2	73.2	1.0	<0.001	
1859	78.0	79.1	1.1	<0.001	
1860	79.1	79.8	0.7	<0.001	check
1861	79.8	81.25	1.45	<0.001	
1862	84.0	85.0	1.0	<0.001	
1863	89.1	89.95	0.85	0.001	
1864	89.95	90.75	0.8	<0.001	
1865	90.75	92.2	1.45	<0.001	
1866	95.7	96.7	1.0	<0.001	
1867	101.15	102.6	1.45	<0.001	
1868	106.0	107.0	1.0	0.001	
1869	111.0	112.0	1.0	<0.001	check
1870	114.3	115.75	1.45	<0.001	
1871	116.3	117.15	0.85	<0.001	
1872	118.6	119.9	1.3	<0.001	
1873	126.0	127.1	1.1	<0.001	
1874	133.0	134.5	1.5	<0.001	
1875	134.5	136.0	1.5	<0.001	
1876	144.0	145.0	1.0	<0.001	
1877	148.4	149.4	1.0	<0.001	
1878	150.2	151.5	1.3	<0.001	check

1879	159.6	160.6	1.0	<0.001	
1880	165.05	166.05	1.0	<0.001	
1881	168.5	169.5	1.0	<0.001	
1882	169.5	170.8	1.3	<0.001	
1883	170.8	171.7	0.9	<0.001	
1884	171.7	173.0	1.3	<0.001	
1885	173.0	173.6	0.6	<0.001	
1886	173.6	175.0	1.4	<0.001	
1887	175.0	176.5	1.5	0.001	
1887	175.0	176.5	1.5	<0.001	check
1888	176.5	178.0	1.5	<0.001	
1889	178.0	179.0	1.0	<0.001	
1890	185.0	186.0	1.0	<0.001	
1891	191.1	192.6	1.5	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-15 LOCATION: Line 19+00W; 4+62.5S

AZIMUTH: 180 degrees DIP: -50 degrees LENGTH: 136.2m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 3.66m

STARTED: March 30, 1989 FINISHED: March 31, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 60.69m -47 degrees
136.2m -46 degrees

FOOTAGE From	To	DESCRIPTION
0.0	3.66	OVERBURDEN
3.66	6.8	DIORITE; 2c Medium grey, medium grained, (1-2mm), massive,equigranular, 5% quartz, 50-60% plagioclase, 35-45% pyroxene, <0.5% disseminated pyrite, locally to 1%. Type 2c. 6.05-6.8 10% coarse (2-3mm), dark brown biotite. Sharp contact
6.8	8.0	GABBRO; 2a Dark greenish-grey, fine-medium grained (1-2mm), massive, equigranular 55-65% pyroxene, 35-45% plagioclase, <0.5% disseminated pyrite. Type 2a. 6.8 - 7.2 5-20% coarse (2-5mm), dark brown biotite 6.8 - 7.6 Significant magnetite content. 7.6 - 7.75 Pyroxene Porphyry Gabbro Dyke; 2d Sharp contact

8.0	17.4	BASALT FLOW; KOMATIITE?; 1a

Dark grey, very fine grained (<1mm), massive, weak, irregular flow banding locally, estimated composition: 20-30% plagioclase, 70-80% pyroxene, significant magnetite content as disseminations and stringers, <0.5% disseminated pyrite, local minor talc development along fractures. Type 1a(kom.)

14.1 - 15.2 Extensive fractured zone, possible fault, minor talc along some surfaces.

Indistinct gradational contact.

17.4	26.1	BASALT FLOW; THOLEIITE?; 1a

Dark grey, fine grained (<1mm), massive, 30-40% plagioclase, 60-70% pyroxene, 0.5% disseminated pyrite, no magnetite, locally common quartz ±calcite veinlets, upto 2cm widths - irregular to straight, generally random, local silicification, minor, local talc development along fractures. Type 1a (thol.)

18.3 - 21.9 Common (2-10%) quartz±calcite veining, individual veinlets up to 2cm width, local stockwork, local silicification (10-50%)
22.5 - 23.3 25-50% silicification.
23.9 - 24.3 20-30% silicification.

Gradational contact

26.1	28.7	MAFIC VOLCANIC PROTOMLONITE - MYLONITE; 1am

Medium grey, aphanitic - very fine grained (<1mm), weak to well developed, tight (<1mm) foliation at 30-35 degrees to the core axis consisting of light/dark banding, original texture destroyed, 50-100% silicification 2-15% fine brown biotite, <0.5% disseminated pyrite - locally to 1% common to 5% quartz veinlets generally parallel to foliation, local foliation distortion with foliation reversals, small scale folding.

Sharp contact

28.7 136.2 BASALT FLOW; UNDEFORMED - PROTOMYLONITE; 1a - 1am

Similar to Type 1a (thol.); weak foliation at 30-35 degrees to the core axis, local quartz veinlets, 0.5%-1% disseminated pyrite.

29.7 - 30.0 Diorite dyke; 2c, 1% disseminated pyrite
30.6 - 31.2 Protomylonite; 1am; foliation at 30-45 degrees to the core axis, 25-75% silica, 5% quartz veinlets parllel to the foliation <5% medium brown biotite.
31.2 - 31.6 25-50% silica
34.2 - 34.35 3cm wide quartz vein at 30 degrees to the core axis
35.3 - 35.5 10% quartz veinlets random to sub-parallel to the core axis.
35.7 - 36.3 Grey quartz - calcite vein
40.2 - 40.25 20% quartz - calcite veinlet stockwork.
41.1 - 41.7 5% silica veinlets, local silica to 50%
48.2 - 49.35 Protomylonite; 1am; 30-70% silica, 0.5-1% pyrite-pyrrhotite, 5% silica veinlets, weak foliation at 45 degrees to the core axis.
51.7 - 52.6 5-10% silica veinlets - local stockwork
52.9 - 53.3 5-10% silica veinlets
54.5 - 55.0 5-10% silica veinlets, local stockwork
55.4 - 56.3 5% silica veinlets, local stockwork
56.7 - 57.5 5% silica veinlets
58.0 - 58.3 5% silica veinlets
59.7 2cm wide, grey quartz vein at 45 degrees to the core axis, 2-3% pyrite
60.9 -61.15 Pinkish white, "granitic" silica vein
62.85 - 63.05 2-3% pyrite as stringers and blebs
63.3 - 64.1 2-3% pyrite as stringers and as blebs associated with quartz veinlets.
65.1 - 65.7 5% silica veinlets
67.1 - 67.2 1cm wide quartz veinlet at 20 degrees to the core axis, 2% pyrite.
71.25 - 71.65 2-3% pyrite associated with quartz veinlets.
75.3 - 75.8 Diorite dyke; 2c
77.4 - 77.7 Diorite dyke; 2c

77.7 2cm grey quartz vein at 70 degrees to the core axis.
79.1 - 82.5 5% silica veinlets; local silica (10-30%).
84.4 - 85.0 10-50% silica - quartz veinlets generally at high angles to the core axis
85.6 - 86.0 10-15% silica veinlets, local stockwork
88.85 - 89.35 Diorite dyke; 2c
90.8 - 92.4 varialbe silicification (5-25%)
92.5 - 92.7 1-2cm wide quartz vein parallel to the core axis, 2% pyrite as stringers
93.0 - 93.3 50% silica
93.7 - 94.9 5% silica veinlets, local stockwork, local silica
96.0 - 96.7 5-10% silica-quartz veinlets, local stockwork.
97.75 - 98.3 1-2cm wide grey quartz vein sub-parallel to the core axis, 1-2% pyrite
99.2 - 99.3 2-3cm wide white quartz vein at 45 degrees to the core axis
100.2 - 101.2 Extensive (25-50%) grey quartz veining sub-parallel to the core axis
102.7 - 103.3 10% fine grained (<0.5mm), medium brown biotite.
105.5 - 106.2 Diorite dyke; 2c
106.6 - 106.75 25-75% silica
107.1 - 107.4 5-10% silica veinlets
112.8 - 113.5 25-75% silica, 5-10% silica veinlets, local stockwork
114.5 - 115.4 25-75% silica, 5% silica veinlets
115.8 - 116.2 5% silica veinlets
116.5 - 117.0 5% silica veinlets - stockwork
117.7 - 117.85 1-2 cm wide grey quartz veinlets sub-parallel to core axis, 1-2% pyrite
121.25 - 121.55 1-2% pyrite-pyrrhotite
125.8 - 125.95 2-3% pyrite-pyrrhotite as stringers parllel to foliation
126.6 - 126.75 Local grey quartz veinlets; 2-3% pyrite-pyrrhotite
127.0 - 127.1 2-3cm wide grey quartz vein at 45 degrees to the core axis
127.1 - 127.3 1-2% pyrite-pyrrhotite
128.3 - 129.15 1-3% pyrite-pyrrhotite as stringers parallel to the foliation.
130.3 - 130.65 1-3% pyrite-pyrrhotite as stringers parallel to the foliation.

131.2 -131.5 Local silica (25-75%), 5-10% silica veinlets, 1-2% pyrite
131.5 - 135.2 Common, local gabbro contamination
134.4 - 135.2 10-30% silicification

136.2 136.2 END OF HOLE

DIAMOND DRILL HOLE LL-89-15

Location: Line 19+00 West; 4+62.5 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY (oz/ton)	
1892	6.0	7.5	1.5	0.002	
1893	11.3	12.3	1.0	<0.001	
1894	18.3	19.8	1.5	<0.001	
1895	19.8	21.3	1.5	0.001	
1896	21.3	22.5	1.2	0.001	check
1897	22.5	23.3	0.8	0.001	
1898	23.8	24.8	1.0	0.001	
1899	26.0	27.5	1.5	<0.001	
1900	27.5	28.7	1.2	<0.001	
1901	28.7	29.7	1.0	<0.001	
1902	30.0	31.2	1.2	0.001	
1903	31.2	31.6	1.4	0.001	
1904	31.6	32.6	1.0	<0.001	
1905	34.0	35.0	1.0	<0.001	
1905	34.0	35.0	1.0	0.001	check
1906	35.0	35.7	0.7	0.004	
1907	35.7	36.3	0.6	0.002	
1908	39.3	40.3	1.0	0.006	
1909	41.0	42.4	1.4	<0.001	
1910	44.8	46.3	1.5	0.001	
1911	48.1	49.5	1.4	0.001	
1912	50.9	52.2	1.3	<0.001	
1913	52.2	53.3	1.1	0.002	
1914	42.8	44.1	1.3	0.001	check
1915	54.5	56.0	1.5	<0.001	
1916	56.7	57.7	1.0	0.003	
1917	59.6	60.9	1.3	0.001	
1918	62.8	63.3	0.5	<0.001	
1919	63.3	64.3	1.0	0.001	
1920	66.7	67.7	1.0	0.002	
1921	71.0	72.0	1.0	<0.001	
1922	74.3	75.3	1.0	0.001	
1923	79.0	80.5	1.5	0.001	check
1924	80.5	81.5	1.0	0.001	
1925	81.5	82.5	1.0	<0.001	check
1926	84.4	85.1	0.7	<0.001	
1927	85.1	86.1	1.0	<0.001	
1928	89.8	90.8	1.0	<0.001	
1928	89.8	90.8	1.0	0.001	check
1929	90.8	91.8	1.0	<0.001	
1930	92.4	93.4	1.0	<0.001	
1931	95.9	96.9	1.0	<0.001	
1932	97.5	98.35	0.85	<0.001	
1933	99.2	100.2	1.0	0.001	
1934	100.2	101.2	1.0	0.002	
1935	101.2	102.7	1.5	0.002	
1936	102.7	103.7	1.0	0.001	
1937	104.5	105.5	1.0	0.001	check

1938	106.5	108.0	1.5	<0.001	
1939	112.6	114.1	1.5	<0.001	
1940	114.1	115.4	1.3	<0.001	
1941	115.4	116.4	1.0	<0.001	
1942	116.4	117.2	0.8	<0.001	
1943	117.2	118.5	1.3	<0.001	
1944	121.25	122.5	1.25	0.001	
1945	122.5	123.5	1.0	0.001	
1946	125.8	127.1	1.3	<0.001	
1946	125.8	127.1	1.3	0.001	check
1947	127.1	128.6	1.5	0.001	
1948	128.6	130.1	1.5	0.001	
1949	130.1	131.5	1.4	0.001	
1950	134.3	135.3	1.0	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-16 LOCATION: Line 38+50W; 12+32.5S

AZIMUTH: 340 degrees DIP: -50 degrees LENGTH: 246.0m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 3.5m

STARTED: April 1, 1989 FININSHED: April 4, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 63.1m -44.5 degrees
121.9m -42.0 degrees
182.9m -43.5 degrees
246.0 -42.5 degrees

FOOTAGE From	To	DESCRIPTION
0.0	3.5	OVERBURDEN
3.5	14.45	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am Dark grey, fine grained (<1mm), fair to well developed, tight (1-2mm) foliation at 50-60 degrees to the core axis, unaltered to strongly altered, original compositon locally preserved: 30-40% plagioclase, 60-70% pyroxene, common silicification (10-100%), local dark brown-black biotite alteration (5-50%), <0.5% disseminated pyrite-locally to 1%, occasional silica veinlets-irregular-straight, random to parallel to foliation, narrow (<1-2mm). Type 1am. 4.05 - 4.65 100% silicification 4.65 -6.2 10% biotite alteration 6.2 - 6.9 10-50% silicification 6.9 - 7.4 10-20% biotite 7.4 - 7.7 100% silicification 8.2 - 8.6 100% silicification 8.6 - 10.1 10-30% silicification 10.6 - 11.5 30-100% silicification 11.5 - 12.0 10-25% silicification 12.0 - 13.1 80-100% silicification 13.35 - 13.8 100% silicification

Sharp contact

14.45	14.95	FELSIC MYLONITE; 6

Light-medium pink aphanitic - very fine grained (<1mm), well developed, tight (<1-2mm) foliation at 55 degrees to the core axis consisting of light/dark banding essentially 100% silicification, 0.5% disseminated pyrite - locally to 1-2%, occasional silica veinlets - irregular to straight, random to parallel to foliation, narrow (<1-2mm), probable original granodiorite but no original texture remains. Type 6

Sharp contact

14.95	15.25	MAFIC VOLCANIC MYLONITE; 1am

Same as Type; 100% silica

Sharp contact

15.25	15.9	FELSIC MYLONITE; 6

Same as Type

Sharp contact

15.9	16.3	MAFIC VOLCANIC MYLONITE; 1am

Same as Type; 30-50% silica

16.3	19.3	FELSIC MYLONITE; 6

Same as Type

17.9 - 18.55 1-2% disseminated pyrite

Sharp contact

19.3	23.05	MAFIC VOLCANIC MYLONITE; 1am

Same as Type; 10-50% silica, local dark brown biotite alteration (10-50%)

22.2 - 22.85 1-3% pyrite as disseminated and stringers along foliation planes, 5% quartz veinlets parallel to foliation 30-50% silica.
22.85 - 23.05 50% black biotite

Sharp contact

23.05	23.35	FELSIC MYLONITE; 6 Same as Type Sharp contact
23.35	24.0	MAFIC VOLCANIC MYLONITE; 1am Same as Type Sharp contact
24.0	25.5	FELSIC MYLONITE; 6 Same as Type; 1-2% disseminated and stringer pyrite. Sharp contact
25.5	27.7	MAFIC VOLCANIC MYLONITE; 1am Same as Type; local silica (10-50%) Sharp contact
27.7	30.1	DIORITE; PROTOMYLONITE; 2cm Similar to Type 2c; weak foliation - grain alignment at 50-60 degrees to the core axis, original texture apparent. Sharp contact
30.1	33.5	GRANODIORITE; BIOTITIC; PROTOMYLONITE-MYLONITE; 4am Medium greyish-pink, fine grained (1mm), foliation- grain alignment at 50-60 degrees to the core axis, equigranular, 10-15% quartz, 10-15% biotite, 70-80% feldspar, plagioclase > K-feldspar, <0.5% disseminated pyrite, original texture and composition generally apparent. Type 4am. Gradational contact over a few centimetres.
33.5	33.9	FELSIC MYLONITE; 6 Similar to Type; medium tan-grey, 100% silica Gradational contact over a few centimetres.

33.9	35.1	MAFIC VOLCANIC MYLONITE; 1am Similar to Type; foliation at 55-60 degrees to the core axis, 25-50% silica. Gradational contact over a few centimetres.
35.1	35.9	FELSIC MYLONITE; 6 Similar to Type; medium grey-tan, 100% silica Gradational contact over a few centimetres.
35.9	46.0	MAFIC VOLCANIC MYLONITE; 1am Similar to Type; 20-80% silica, <0.5-1% pyrite - locally 2-3%, local black biotite to 10%. 38.25 - 38.4 Grey quartz vein at 60-70 degrees to the core axis 43.1 - 44.0 50-80% silica, 1-2% pyrite Sharp contact
46.0	47.6	GABBRO; 2a Similar to Type Sharp contact
47.6	66.1	MAFIC VOLCANIC MYLONITE; 1am Similar to Type; foliation at 55-60 degrees to the core axis, 10-100% silica - average 10-30%, local black biotite alteration to 50%, occasional quartz veinlets, 0.5-1% pyrite - locally to 2-3%. 50.2 - 50.6 50% fine grained (<1mm) chlorite alteration 50.9 - 51.2 2-3% pyrite as disseminated and as stringers 52.35 - 52.8 Felsic mylonite; 6; 100% silica 55.7 - 55.85 100% silica 56.1 - 56.7 Diorite dyke, protomylonite; 2cm 57.2 - 57.35 Granodiorite dyke; 4a 57.7 - 57.9 50% black biotite 58.4 - 59.4 50-100% silica 60.05 - 60.2 Remnant ash fall tuff (<1mm);

1cm
60.3 - 60.75 50-75% chlorite alteration
62.9 - 63.45 50% silica
63.45 - 63.55 50% dark brown biotite alteration
64.7 - 64.9 80-100% chlorite alteration
65.2 - 65.3 100% silica
65.6 - 65.75 Granodiorite dyke; 4a

Gradational contact over 50 cm.

66.1 74.65 BASALT FLOW; WEAKLY DEFORMED TO PROTOMYLONITE; 1a - 1am

Dark grey, fine grained (<1mm), weak to well defined foliation at 60 degrees to the core axis, 35-45% plagioclase, 55-65% pyroxene, 0.5% disseminated pyrite, local silica, (10-30%), common, local biotite alteration, common (1-2%) silica-quartz veinlets generally parallel to foliation narrow (1-5mm).

67.3 - 71.95 10-25% black biotite alteration
72.5 - 73.0 10-25% black biotite alteration
73.0 - 73.3 50% silica
73.3 - 73.75 10-20% black biotite alteration
73.75 - 74.65 50-100% chlorite alteration

Sharp contact

74.65 76.7 GRANODIORITE; 4a

Medium grey to pink, medium grained (2mm), massive, equigranular, 20-30% quartz, 5-10% biotite, 60-75% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite. Type 4a

Sharp contact

		Sharp contact
76.7	78.0	MAFIC VOLCANIC PROTOMYLONITE; 1a - 1am
		Same as Type
		Sharp contact
78.0	78.6	GRANODIORITE; 4a
		Same as Type
		Sharp contact
78.6	79.5	MAFIC VOLCANIC PROTOMYLONITE; 1a - 1am
		Same as Type; 10-15% black biotite
		Sharp contact
79.5	80.15	GRANODIORITE; 4a
		Same as Type
		Sharp contact
80.15	90.5	MAFIC VOLCANIC PROTOMYLONITE; 1am
		Same as Type; foliation at 55-60 degrees to the core axis, variable (10-100%) silica, (average 10-20%), local biotite alteration.
		81.2 - 81.3 Granodiorite dyke; 4a 81.4 - 81.7 30-70% silica 81.7 - 83.6 10-15% black biotite; 1-2% grey quartz veinlets generally paralle to foliation 83.6 - 83.95 Granodiorite dyke; 4a 83.95 - 87.8 10-20% black biotite; 1-2% grey quartz veinlets parallel to the foliation 87.2 - 87.4 50% silica 87.4 - 87.8 10-20% biotite alteration 87.8 - 88.1 25-75% silica 88.1 - 88.45 Gabbro dyke; 2a 88.45 - 88.7 75% silica 88.7 - 89.3 Common silica (10-50%) common black biotite alteration (5-20%), 1-2% quartz veinlets. 89.3 - 90.0 Granodiorite dyke; 4a 90.0 - 90.5 10% biotite alteration, 10-20%

silica, 1-2% quartz veinlets

Sharp contact

90.5	99.05	GRANODIORITE; BIOTITIC; 4a

Similar to Type; Medium pink, medium grained (1-2mm), massive, equigranular, 10-20% quartz, 5-15% biotite, 65-85% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite, local contamination and inclusions of basalt, bright red-orange stain common throughout - probable hematite alteration, possible potassic alteration, occasional silica - quartz veinlets.

Sharp contact

99.05	99.7	MAFIC VOLCANIC MYLONITE; 1am

Same as Type; well developed foliation at 60 degrees to the core axis, 50-75% silica, 0.5-1% pyrite, 1-2% quartz veinlets parallel to foliation.

Gradational contact

99.7	104.3	BASALT FLOW; PROTOMYLONITE; 1am

Similar to Type; weak foliation at 60 degrees to the core axis.

99.7 - 101.0 50-100% chlorite alteration
101.0 - 101.3 Granodiorite dyke, protomylonite; 4am
101.3 - 102.95 20-75% silica, 0.5-1% pyrite
102.95 - 103.4 Gabbro, pyroxene porphyry dyke, protomylonite; 2dm
103.4 - 103.8 25-50% silica
103.8 - 104.3 Gabbro pyroxene porphyry dyke, protomylonite; 2dm

Sharp contact

104.3	107.15	GRANODIORITE; MYLONITE; 4am

Similar to Type; well developed foliation at 65-70 degrees to the core axis, common basalt (1am) inclusions and contamination , aphanitic to fine grained (<1mm), common silica (10-100%); average 10-20%, local bright red coloration - hematite or potassic

alteration.

106.95 - 107.15 100% silica

Sharp contact

107.15	108.3	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; 50-100% silica, 0.5-1% pyrite

Sharp contact

108.3	109.4	GABBRO; 2a

Similar to Type

Sharp contact

109.4	117.7	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; foliation at 65-70 degrees to the core axis, common silica (10-50%), <0.5-1% pyrite as disseminated and stringers along foliation, occasional quartz-silica veinlets, local, minor talc-calcite along fractures.

115.2 - 117.7 Well foliated, totally altered volcanic consisting of alteration bands of chlorite, dark brown biotite and minor carbonate; <1% quartz veinlets parallel to foliation, 0.5% pyrite

Sharp contact

117.7	118.5	GABBRO; PYROXENE PORPHYRY DYKE; 2d

10-20% chloritized pyroxene phenocrysts (2-5mm) in a fine grained (1mm) mafic matrix.

Sharp contact

118.5	147.5	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to 109.4 - 117.7; generally well developed foliation at 50-75 degrees to the core axis, alteration includes chlorite, dark brown biotite and minor carbonate, common (1-2%) silica veinlets - generally irregular, random and narrow (1-10mm); 0.5% disseminated

pyrite, locally to 1%.

118.5 - 120.25 Weak (10%) biotite alteration
120.25 - 121.0 Pervasive chlorite/biotite/carbonate alteration - banded
121.0 - 121.9 10-20% biotite alteration
121.9 - 122.85 Chlorite/biotite/carbonate alteration - pervasive, banded
122.85 - 124.4 15-30% chlorite alteration
124.4 - 126.8 Chlorite/biotite/carbonate alteration - banded, pervasive, weak magnetite content locally.
126.8 - 131.75 25-50% biotite alteration, weak foliation at 50 degrees to the core axis.
131.75 - 133.6 Banded pervasive chlorite/biotite/carbonate alteration at 50 degrees to the core axis.
133.6 - 135.95 10-35% biotite alteration, 10-25% silica, locally, weak foliation at 60-65 degrees to the core axis.
135.95 - 138.6 Chlorite/biotite/carbonate alteration banded at 75-80 degrees to the core axis, local silica- quartz veinlets parallel to banding, 0.5% pyrite
138.6 - 139.2 10-25% biotite alteration
139.2 - 142.7 Banded chlorite/biotite/carbonate alteration at 60-70 degrees to the core axis, common (1-2%), narrow (1-10mm) silica veinlets.
142.7 - 145.6 10-30% biotite alteration, 0-10% chlorite alteration, 1% silica veinlets, weak magnetite locally.
145.6 - 147.5 Banded chlorite/biotite/carbonate alteration at 65-75 degrees to the core axis. 0.5-1% pyrite - locally to 2%, common (1-2%) silica veinlets subparallel to foliation to random.

Sharp contact

147.5 149.1 "GRANITIC" VEIN - DYKE

Siliceous, aphanitic, orange-red.

Sharp contact

149.1 156.1 MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to 118.5 - 147.5; foliation developed at 60-65 degrees to core axis, generally altered - chlorite, dark brown biotite and

		minor carbonate, common silica veinlets-irregular - straight, random to parallel to foliation, narrow (1-10mm); 0.5-1% disseminated pyrite, locally 2-3%
		149.1 - 149.7 15-25% biotite alteration, 1-2% disseminated pyrite 149.7 - 150.85 Pervasive, banded chlorite/biotite/carbonate alteration at 60-65 degrees to the core axis, 2-5% silica veinlets 150.85 - 151.5 10-30% biotite, 0-10% chlorite, 1-2% pyrite 151.5 - 154.7 Pervasive, banded chlorite/biotite/carbonate alteration, 1-2% silica veinlets, locally to 5%, 1% pyrite 154.7 - 155.9 15-30% dark brown biotite alteration.
		155.9 - 156.1 Gabbro, pyroxene porphyry dyke; 2d
		Sharp contact
156.1	156.75	GRANODIORITE DYKE; 4a
		Same as Type
		Sharp contact
156.75	181.3	BASALT FLOW; RELATIVELY UNDEFORMED-PROTOMYLONITE; 1a - 1am
		Similar to Type; local foliation developed at 60-65 degrees to the core axis, common dark brown - black biotite alteration, local chlorite alteration, common 1-2% silica veinlets - locally to 5%; <0.5% pyrite-locally to 1%
		156.75 - 159.5 10-40% biotite alteration 159.5 - 162.3 5-10% biotite alteration 162.3 - 162.75 Gabbro, pyroxene porphyry dyke; 2d 162.75 - 166.7 Biotite alteration (upto 10%), local silica (5-30%) 166.7 - 170.0 Banded at 65 degrees to the core axis, 10-30% biotite, 5-45% chlorite, minor carbonate, 5-25% silica associated with silica veinlets sub-parallel to the foliation. 170.0 - 172.8 5-15% biotite alteration, 10-25% silica

172.8 - 173.9 Banded biotite/chlorite/carbonate alteration at 65-75 degrees to the core axis, 1% silica veinlets.
173.9 - 178.1 10-40% dark brown biotite alteration
178.1 - 178.25 100% silica
178.25 - 181.3 20-50% biotite alteration, local silica (10-50%), 1-2% silica veinlets, foliation at 65-75 degrees to the core axis.

Sharp contact

181.3	181.9	GRANODIORITE; 4a

Similar to Type; medium orangish-pink

Sharp contact

181.9	182.45	DIORITE DYKE; 2c

Same as Type

Sharp contact

182.45	188.45	BASALT FLOW; RELATIVELY UNDEFORMED - PROTOMYLONITE; 1a - 1am

Similar to 156.75 - 181.3; foliation at 60-70 degrees to the core axis.

182.45 - 183.8 20-50% dark brown biotite alteration, 0.5-1% pyrite
183.8 - 184.75 Pervasive chlorite, epidote, biotite and minor carbonate alteration, 1-2% silica veinlets, 1-2% pyrite.
184.75 - 188.45 20-40% dark brown biotite, 0-10% chlorite, local silica (10-50%), 1-2% silica veinlets - locally to 5%.

Sharp contact

188.45	189.7	QUARTZ VEIN

Light grey, granular, massive, 100% quartz, "granitic" appearance.

Sharp contact

189.7	216.1*	BASALT FLOW; RELATIVELY UNDEFORMED-PROTOMYLONITE; 1a - 1am

Similar to 182.45 - 188.45, foliation at 60-70 degrees to core axis, variably altered-chlorite, dark brown biotite and very minor carbonate, common silica - quartz veinlets.

189.7 - 193.1 Varably banded biotite/chlorite local, minor carbonate alteration, pervasive, common silica - quartz veinlets - locally to 5%, 0.5% pyrite.
193.1 - 200.35 10-25% biotite alteration, 1-2% silica - quartz veinlets, 0.5% pyrite-locally to 1%

200.0 - 200.35 20-30% chlorite alteration
200.35 - 201.7 Extensive (50-100%) granodiorite dyke material
201.7 - 202.7 50-75% chlorite alteration
202.7 - 205.7 10-25% dark brown biotite, 1-2% silica veinlets - locally to 10%
205.7 - 208.6 25-50% silica, common (1-2%) silica - quartz veinlets - generally random, weak foliation at 60-65 degrees to core axis, pink-orange silica, local orangish-red granodiorite lenses, 0.5% pyrite - locally to 1%
208.6 - 209.4 5% light green silica veinlets, 5-25% silica
209.4 - 211.1 20-50% silica
211.1 - 216.1* Box 38 - dropped by drille , totally mixed-up core, consists mainly of 1a - 1am unit with 10-20% dark brown biotite alteration, also local silica (10-30%); also two types of granodiorite dykes - light grey, siliceous wih 1-2% disseminated pyrite and light pink and siliceous.

216.1 246.0* GRANODIORITE; 4a

Light grey, medium grained (2-3mm), massive, equigranular, 25-40% quartz, 5-10% biotite, 50-70% feldspar, plagioclase > K-feldspar, 1% disseminated pyrite - locally to 2%, majority of section fractured and broken-probable fault, common orange-red hematite stain, gradational change from light grey to light pink downhole with a coincident decrease in quartz content (to 10-15%).

219.4 - 230.7 Extensively fractured and broken-probable fault, talc on some fracture surfaces.

230.7 - 246.0 Common fracturing with local talc on surfaces, local extensively broken fault sections.
238.5 - 239.35 Basalt unit, pervasive talc alteration
243.4 - 245.5 Pegmatitic interval, grain size 5-10mm.

246.0	246.0	END OF HOLE

DIAMOND DRILL HOLE LL-89-16

Location: Line 38+50 West; 12+32.5 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY(oz/ton)	
1951	4.0	4.7	0.7	0.001	
1952	6.0	7.0	1.0	<0.001	
1953	7.3	8.8	1.5	0.001	
1954	8.8	10.3	1.5	<0.001	
1955	10.3	11.5	1.2	0.001	check
1956	11.5	12.0	0.5	0.001	
1957	12.0	13.5	1.5	0.001	
1958	13.5	15.0	1.5	0.001	
1959	15.0	16.5	1.5	<0.001	
1960	16.5	17.8	1.3	<0.001	
1961	17.8	18.8	1.0	0.001	
1962	18.8	20.3	1.5	<0.001	
1963	20.3	21.8	1.5	<0.001	
1964	21.8	23.1	1.3	<0.001	check
1965	23.1	24.0	0.9	<0.001	
1966	24.0	25.5	1.5	0.001	
1967	25.5	26.5	1.0	<0.001	
1968	26.5	27.25	0.75	0.001	
1969	29.1	30.1	1.0	<0.001	
1970	30.1	31.1	1.0	<0.001	
1971	32.5	33.5	1.0	<0.001	
1972	33.5	35.0	1.5	<0.001	
1973	35.0	36.5	1.5	<0.001	
1973	35.0	36.5	1.5	0.001	check
1974	36.5	38.0	1.5	<0.001	
1975	38.0	38.5	0.5	0.001	
1976	38.5	39.5	1.0	<0.001	
1977	39.5	41.0	1.5	<0.001	
1978	41.0	42.5	1.5	<0.001	
1979	42.5	44.0	1.5	0.001	
1980	44.0	45.0	1.0	<0.001	
1981	45.0	46.0	1.0	<0.001	
1982	47.6	49.1	1.5	<0.001	check
1983	49.1	50.6	1.5	<0.001	
1984	50.6	52.1	1.5	<0.001	
1985	52.1	53.6	1.5	<0.001	
1986	53.6	55.1	1.5	<0.001	
1987	55.1	56.1	1.0	<0.001	
1988	56.1	56.75	0.65	0.001	
1989	56.75	57.25	0.5	0.001	
1990	57.25	58.4	1.15	0.001	
1991	58.4	59.4	1.0	<0.001	check
1992	59.4	60.9	1.5	<0.001	
1993	60.9	62.3	1.4	<0.001	
1994	62.3	63.7	1.4	<0.001	
1995	63.7	65.0	1.3	<0.001	
1996	65.0	66.5	1.5	0.001	
1997	69.2	70.7	1.5	<0.001	

1998	73.15	74.65	1.5	0.001	
1999	76.7	77.5	0.8	0.001	
2000	80.0	81.4	1.4	<0.001	check
501	81.4	82.9	1.5	0.001	
502	82.9	84.4	1.5	0.001	
503	84.4	85.9	1.5	0.006	
504	85.9	87.4	1.5	0.001	
505	87.4	88.1	0.7	0.002	
506	88.45	89.3	0.85	<0.001	
507	89.3	90.5	1.2	<0.001	
508	90.5	91.5	1.0	<0.001	
509	96.7	98.2	1.5	<0.001	
510	98.8	99.7	0.9	<0.001	check
511	99.7	101.0	1.3	<0.001	
512	101.0	102.0	1.0	<0.001	
513	102.0	102.95	0.95	<0.001	
514	104.3	105.8	1.5	<0.001	
515	105.8	107.15	1.35	<0.001	
516	107.15	108.3	1.15	<0.001	
517	109.4	110.9	1.5	<0.001	
518	110.9	112.2	1.3	0.001	
519	112.2	113.7	1.5	<0.001	check
520	113.7	115.3	1.6	<0.001	
521	115.3	116.8	1.5	0.001	
522	116.8	117.7	0.9	0.001	
523	118.5	120.0	1.5	0.001	
524	120.0	121.5	1.5	0.001	
525	121.5	122.85	1.35	<0.001	
526	122.85	124.4	1.55	0.002	
527	124.4	125.9	1.5	0.001	
528	125.9	127.3	1.4	<0.001	
529	127.3	128.8	1.5	<0.001	
530	128.8	130.3	1.5	<0.001	
531	130.3	131.75	1.45	<0.001	
532	131.75	133.6	1.85	<0.001	
533	133.6	134.85	1.25	<0.001	
534	134.85	135.95	1.1	0.001	
535	135.95	137.5	1.55	0.001	check
536	137.5	138.6	1.1	0.001	
537	138.6	139.3	0.7	0.001	
538	139.3	140.8	1.5	0.001	
539	140.8	141.8	1.0	<0.001	
540	141.8	142.7	0.7	0.002	
541	142.7	144.2	1.5	<0.001	
542	144.2	145.5	1.3	0.001	
543	145.5	146.5	1.0	0.001	
544	146.5	147.5	1.0	<0.001	
544	146.5	147.5	1.0	0.002	check
545	149.1	150.6	1.5	0.001	
546	150.6	152.1	1.5	0.001	
547	152.1	153.6	1.5	0.002	
548	153.6	155.1	1.5	0.001	
549	155.1	155.9	0.8	0.001	
550	156.75	158.25	1.5	<0.001	

551	158.25	159.55	1.3	0.001	
552	159.55	160.75	1.2	0.001	
553	160.75	162.3	1.55	0.001	check
554	166.7	168.15	1.45	0.001	
555	168.15	169.15	1.0	0.003	
556	169.15	170.2	1.05	0.001	
557	172.8	174.0	1.2	0.001	
558	177.8	179.3	1.5	<0.001	
559	182.5	183.8	1.3	<0.001	
560	183.8	184.75	0.95	0.003	
561	184.75	186.25	1.5	0.001	
562	186.25	187.75	1.5	0.001	check
563	187.75	188.45	0.7	0.002	
564	188.45	189.7	1.25	0.001	
565	189.7	191.2	1.5	0.002	
566	191.2	192.7	1.5	0.001	
567	192.7	194.2	1.5	<0.001	
568	198.0	199.5	1.5	0.001	
569	202.9	203.9	1.0	<0.001	
570	203.9	205.2	1.3	<0.001	
571	208.1	209.6	1.5	0.001	
571	208.1	209.6	1.5	<0.001	check
572	216.1	217.6	1.5	<0.001	
573	224.2	225.7	1.5	<0.001	
574	231.7	233.0	1.3	0.003	
575	242.9	244.5	1.6	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-17 **** NOT DRILLED ****

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-18 LOCATION: Line 37+87.5W; 12+25S

AZIMUTH: 345 degrees DIP: -50 degrees LENGTH: 264.2m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 1.55m

STARTED: April 5, 1989 FINISHED: April 7, 1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 61.0m -47 degrees
121.9m -45 degrees
182.9m -42.5 degrees
264.2m -42.5 degrees

FOOTAGE From	To	DESCRIPTION
0.0	1.55	OVERBURDEN
1.55	6.3	BASALT FLOW; RELATIVELY UNDEFORMED-PROTOMYLONITE; 1a - 1am Dark grey, fine grained (1mm), weak foliation developed at 65 degrees to the core axis, 35-45% plagioclase, 55-65% pyroxene, <0.5% disseminated pyrite, common (10-30%), silicification, 1-2% silica veinlets developed parallel to foliation - straight and narrow (1-10mm). Type 1a - 1am. Sharp contact
6.3	7.4	GABBRO; FELDSPAR PORPHYRY; 2b Dark grey, fine grained (1-2mm), weak grain alignment at 65 degrees to the core axis, 40-50% plagioclase, 5% biotite, 45-55% pyroxene, 2-5% plagioclase phenocrysts (2-5mm). Type 2b Sharp contact
7.4	11.6	MAFIC VOLCANIC MYLONITE; 1am Dark grey, aphanitic to fine grained (<1mm), well developed, tight (<1-3mm) foliation at

65 degrees to the core axis consisting of light/dark banding, original texture and composition not apparent, 50-100% silicification, weak carbonate alteration locally to 10%, 1-2% silica veinlets developed parallel to foliation - locally to 5%, <0.5% disseminated pyrite - locally to 1%. Type 1am.

7.75 - 8.1 100% silicification

Sharp contact

11.6	13.45	GABBRO; 2a

Similar to Type 2b except not porphyritic, pyroxene totally chloritized. Type 2a.

Sharp contact

13.45	19.4	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type 1am. 20-50% silicification, common intervals of dolomite alteration-pervasive to veinlets parallel to foliation-cream to buff colour; local chlorite alteration.

13.5 - 13.8 50% dolomite alteration
15.9 - 18.3 10-50% dolomite
18.3 - 18.95 50% chlorite alteration
18.95 - 19.4 Extensive granodiorite contamination.

Gradational contact over tens of centimetres.

19.4	26.5	MAFIC VOLCANIC PROTOMYLONITE; 1am

Similar to Type; weak foliation at 65 degrees to the core axis, variably altered, 10-25% silica throughout, local 5-100% dolomite alteration, <0.5% pyrite, minor (1%) carbonate and silica veinlets.

19.4 - 19.9 10-25% dolomite
19.9 - 20.15 granodiorite dyke; 4a
20.15 - 20.4 25-50% dolomite
22.4 - 23.25 tuff unit (1mm); 1c
24.8 - 25.0 100% dolomite
25.3 - 25.55 50% dolomite

Sharp contact

26.5	28.1	GABBRO; 2a Similar to Type; fine grained (1-2mm). Sharp contact
28.1	31.45	MAFIC VOLCANIC PROTOMYLONITE; 1am Similar to 19.4 -26.5; weak foliation at 65 degrees to the core axis, silica and dolomite alteration locally, minor biotite or talc alteration locally. 28.1 - 28.8 20-50% dolomite 29.4 - 30.95 Remnant tuff unit; 1cm; 10-20% biotite alteration 30.95 - 31.45 25% talc alteration, local silica to 50% near contact. Sharp contact
31.45	35.0	GRANODIORITE; PROTOMYLONITE - MYLONITE; 4am Light pink, very fine grained (<1mm), foliation developed at 55-65 degrees to the core axis, no original texture or mineralogy, essentially 100% silicification , 0.5% disseminated pyrite - locally to 1%, rare quartz veinlets generally parallel to foliation - straight and narrow (1-5mm). Type 4am
35.0	37.4	MAFIC VOLCANIC TUFF; PROTOMYLONITE; 1cm Medium grey, fine grained (1mm), weak foliation at 65 degrees to the core axis, original texture generally apparent, variably silicified 25-100%, local biotite alteration to 10%, 0.5% disseminated pyrite - locally to 1%. Type 1cm. 36.4 - 36.75 100% silica Sharp contact
37.4	72.65	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am Similar to Type; well developed foliation at 65 degrees to the core axis, variably silicified - 10-50% average 10-20%, locally common creamy white dolomite alteration. 5-

20% and locally to 100%, rare, local sericite (5-10%), local biotite alteration, 1-2% silica or carbonate veinlets generally parallel to foliation, <0.5% pyrite.

40.4 - 40.75 chloritized gabbro dyke; 2a
41.3 - 41.7 25-50% dolomite alteration
43.3 - 43.6 100% dolomite
44.2 - 44.8 gabbro, pyroxene porphyry dyke; 2d
46.45 - 48.3 30-50% dolomite
52.8 - 53.4 30-50% dolomite
53.4 - 54.55 25-60% black biotite alteration
54.55 - 56.5 10-40% silica; 10-30% biotite
56.5 - 57.0 50-100% dolomite
57.0 - 58.45 10-25% biotite; 10-30% silica;
57.9 - 57.95 grey quartz vein
58.45 - 60.4 50-100% silica, 0.5-1% pyrite, locally to 3%

ASSAY ** SAMPLE NUMBER: 606 // 58.45 - 59.4m // 0.013 oz Au/ton

60.9 - 61.4 50-100% silica; 0.5-1% pyrite, locally to 3%
61.4 - 64.35 10-25% black biotite alteration
63.8 - 64.0 10% quartz veinlets with 1-2% pyrite
65.4 - 72.65 50-100% silica; 0.5-1% pyrite - locally to 3% as disseminated and stringers parallel to foliation, local grey quartz veinlets parallel to foliation.

ASSAY ** SAMPLE NUMBER: 612 // 66.9 - 68.4m // 0.012 oz Au/ton

Sharp contact

72.65 73.95 GABBRO; 2c

Same as Type; chloritized pyroxene grains, grain size 2-3mm.

Sharp contact

73.95 82.5 MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; well developed foliation at 55-65 degrees to the core axis, variably silicified throughout (25-100%), common (1-2%) silica - grey quartz veinlets - generally straight, random to parallel to foliation, narrow (1-20mm), 0.5% disseminated pyrite-

locally to 1%.

74.05 - 74.45 granodiorite mylonite unit; 4am remnant quartz grains
82.25 - 82.4 50-75% chlorite alteration; no silica

Sharp contact

82.5 84.15 GRANODIORITE; 4a

Relatively undeformed; light pink-grey, fine grained (1-2mm), massive, equigranular, 10-15% quartz, 10% biotite, 75-80% feldspar, plagioclase > K-feldspar, 0.5% disseminated pyrite.

Sharp contact

84.15 121.7 MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak to well developed foliation at 55 degrees to the core axis, variably altered, local silica, common biotite (dark brown) alteration, 1% silica-quartz veinlets - irregular to straight, random to parallel to foliation, narrow (1-10mm), local areas of granodiorite dykes, 0.5% disseminated pyrite.

84.15 - 84.9 50% silica
84.9 - 85.8 10-25% biotite alteration
85.8 - 86.1 50-100% silica
86.1 - 89.15 20-50% biotite alteration
89.15 - 89.8 80% light pink, fine grained (<1mm), massive, "granitic" quartz vein, 0.5% pyrite
89.8 - 91.95 protomylonite, 5-15% biotite, 0-20% silica, 0.5% pyrite
91.95 - 92.7 30-50% granodiorite contamination
91.95 - 94.1 5-15% biotite, local chlorite to 25%, common granodiorite contamination and narrow dykes.
94.1 - 95.1 20-50% silica, 0.5-1% disseminated pyrite
95.1 - 97.55 10-50% biotite alteration, local 10-20% silica
95.2 - 95.4 granodiorite dyke
97.55 -98.2 fine grained granodiorite dyke
98.2 - 101.4 20-75% silica, 0-10% biotite, 0.5% pyrite, locally to 2%

101.4 - 103.05 10-25% biotite, 0-10% silica
103.05 - 104.4 20-50% silica, 0-15% biotite
104.4 - 105.5 10-25% biotite
105.5 - 105.9 20-50% silica
105.9 - 108.45 20-50% biotite
108.45 - 108.7 diorite dyke, protomylonite; 2cm; 1% pyrite
108.7 - 114.8 10-70% silica, 0-1-% biotite, <0.5% pyrite, locally to 1%.
114.8 - 115.5 50% biotite alteration
115.5 - 117.4 10-100% silica, average 10-30%, 0.5% disseminated pyrite
117.4 - 117.8 gabbro, protomylonite dyke; 2am 50% biotite alteration
117.8 - 118.6 diorite protomylonite dyke; 2cm; 25-30% biotite alteration
118.6 - 121.7 10-100% silica, average 10-25%. 0-25% biotite, average 10%; 0.5% pyrite.

Sharp contact

121.7	123.2	GRANODIORITE; MYLONITE; 4am

Similar to Type; light - medium grey, foliation at 55 degrees to the core axis, remnant quartz grains stretched parallel to foliation, 50-100% silica, 0.5% disseminated pyrite.

Sharp contact

123.2	125.5	MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; well developed foliation at 55 degrees to the core axis, variably altered, 10-100% silica, average 10-40%, 5-25% dark brown biotite, <0.5% disseminated pyrite, 1-2% silica - grey quartz veinlets parallel to foliation.

Sharp contact

125.5	129.05	MAFIC VOLCANIC TUFF; PROTOMYLONITE; 1cm

Dark grey, fine grained (1-2mm), weak foliation at 55 degrees to the core axis, original texture apparent but original composition extensively altered, approximately 50% plagioclase, pyroxene is generally altered to dark brown biotite, very fine, disseminated pyrite 0.5%, local altered pyroxene grains up to 3mm. Type 1cm.

Sharp contact

129.05 130.45 MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Same as 123.2 - 125.5; 0.5-1% disseminated pyrite

Sharp contact

130.45 131.4 MAFIC VOLCANIC TUFF; PROTOMYLONITE; 1cm

Similar to Type; grain size generally 1mm with sections of plagioclase grains to 2-3mm; 10-40% silica, locally common biotite 10-50%, 0.5% pyrite.

Sharp contact

131.4 148.0 MAFIC VOLCANIC MYLONITE; 1am

Similar to Type; well developed foliation at 55-60 degrees to the core axis, variably altered, 20-80% silica, averaging 20-40% common 10-50% dark brown biotite averaging 10-20% chlorite alteration common in sections 10-75%, carbonate alteration common in sections 10-75%, carbonate alteration, locally 5-25% bluish-grey to cream colour, 0.5% disseminated pyrite - locally to 2-3%, 1% silica - grey quartz veinlets generally parallel to foliation.

131.4 - 133.2 20-40% silica, 10-20% biotite
133.2 - 134.0 25-75% silica, 10% biotite, 1-2% disseminated pyrite - locally to 3%
134.0 - 138.6 20-40% silica, 10-50% biotite

ASSAY ** SAMPLE NUMBER: 653 // 137.5 - 138.7m // 0.029 oz Au/ton

138.6 - 141.75 Strong foliation at 60 degrees to the core axis consisting of alternating bands of chlorite, biotite and cream to grey carbonate, minor (<1%) silica veinlets generally parallel to foliation, 0.5% pyrite-pyrrhotite - locally to 3% as disseminated and stringers.

ASSAY ** SAMPLE NUMBER: 654 // 138.7 - 140.2m // 0.011 oz Au/ton

141.75 - 142.0 80-100% silica

142.0 - 142.3 banded pervasive chlorite/biotite/dolomite alteration
142.3 - 143.0 75-100% silica
143.0 - 145.0 banded, pervasive chlorite/biotite/minor carbonate alteration;
143.15 - 144.2 5-10% anhedral almandine garnets, 1-2mm
145.0 - 145.7 50% silica
145.7 - 148.0 banded, pervasive biotite/chlorite/grey carbonate alteration; 1-2% silica veinlets generally parallel to foliation, 0.5% pyrite
147.7 - 147.95 2-3% anhedral almandine garnets - 2-3mm; local talc along fractures

Sharp contact

148.0 149.2 GABBRO; PYROXENE PORPHYRY; 2d

Dark grey, pyroxene phenocrysts to 3mm in a 1mm groundmass, massive relatively unaltered, 5% anhedral pyroxene phenocrysts, groundmass: 30-35% plagioclase, 65-70% pyroxene.

Sharp contact

149.2 247.5 MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to 131.4 - 148.0; foliation at 60-70 degrees to the core axis, decreasing to 45-50 degrees downhole; variably altered with dark brown biotite, chlorite, light bluish-grey to cream coloured carbonate, silicification, <0.5% disseminated pyrite, generally minor (<1%) silica - quartz veinlets, minor almandine garnet locally.

149.2 - 152.4 Strongly banded, pervasive chlorite/biotite/carbonate alteration
149.2 - 149.7 5% almandine garnet, 2-3mm
152.4 - 153.0 Banded biotite/carbonate alteration
153.0 - 154.5 Chlorite/biotite/carbonate alteration generally weak-strong banding
154.5 - 155.9 Pervasive 20-50%, light grey carbonate alteration.
155.9 - 158.3 Banded, pervasive chlorite/biotite/carbonate alteration
158.3 - 163.0 Irregularly banded biotite/carbonate minor chlorite alteration; carbonate,

light grey-green, local calcite, occasional talc veinlets.

ASSAY ** SAMPLE NUMBER: 667 // 158.4 - 159.9m // 0.010 oz Au/ton

163.0 - 164.1 Biotite and carbonate alteration, weak foliation, but not distinctly banded.
164.1 - 166.0 Irregular, variably banded biotite, carbonate and local chlorite alteration, 1-2% irregular, silica veinlets-random and narrow (1-2mm).
166.0 - 170.05 Weak foliation; 5-25% dark brown biotite, 5-25% carbonate alteration, local weak banding, narrow granodiorite dykes locally;
167.25 - 168.45 5% irregular, random, light grey carbonate veinlets, 1-5mm widths.
170.05 - 170.8 Strongly banded chlorite/biotite/carbonate alteration
170.8 - 210.5 Weak to strong foliation, 10-25% dark brown biotite, 5-25% carbonate alteration, minor,local chlorite, local sections only weakly altered, occasional grey quartz veinlets to 1cm.
174.3 - 175.25 pervasive 100%, light grey carbonate alteration
175.9 - 177.1 50-100% pervasive carbonate alteration
177.95 - 178.6 Irregularly banded biotite/carbonate minor chlorite alteration at 80 degrees to the core axis.
180.8 - 181.8 Irregular banded biotite/carbonate/ minor chlorite at 65 degrees to the core axis.
186.8 - 187.5 Irregular banded biotite/carbonate/minor chlorite alteration
189.6 - 190.1 Gabbro dyke; pyroxene porphyry; 2d
191.5 - 192.5 Banded biotite/carbonate alteration at 55-60 degrees to the core axis, 15-20% biotite, 10% carbonate
195.6 - 195.9 75-100% light grey carbonate alteration
196.5 - 196.7 75-100% carbonate alteration
198.3 - 198.7 75-100% carbonate alteration

202.2 - 202.95 Irregular banded biotite/carbonate/minor chlorite alteration at 45-50 degrees to the core axis.
203.85 - 204.75 Irregular banded biotite /carbonate/minor chlorite alteration at 45-60 degrees to the core axis.
208.3 - 208.7 Irregular banded carbonate /biotite/minor carbonate alteration, local quartz veinlets.
210.0 - 210.5 50% carbonate alteration
210.5 - 214.6 Pervasive carbonate alteration 50-75%;
211.7 - 214.6 extensively fractured and broken core - fault zone, hematite stain along fractures.
214.6 - 238.8 Foliation at 45-55 degrees to the core axis, generally weakly banded biotite/carbonate alteration, 0-25% dark brown biotite, average 10-15%; 10-100% carbonate alteration, average 20-30%, rare quartz veinlets, local magnetite, local talc along fractures.
214.2 - 215.5 Pervasive 50-100% carbonate alteration
229.4 - 231.4 Foliation - banding of biotite/carbonate alteration at 45-50 degrees to the core axis, irregular to regular banding
233.45 - 234.25 Irregular banded carbonate/biotite/minor green talc alteration
236.0 - 236.65 Extensive fractured - broken core-fault, pervasive carbonate alteration
238.1 - 238.8 5% green talc veining-irregular and random
238.8 - 239.4 Pervasive 50-100% carbonate alteration.
239.4 - 240.9 Pervasive 25-100% talc-light grey carbonate alteration, foliation at 45-50 degrees to the core axis.
240.9 - 241.2 Granodiorite dyke; 4a
241.2 - 242.1 Pervasive 100% talc-carbonate alteration.
242.1 - 242.6 25% dark brown biotite alteration
242.6 - 243.4 50-100% pervasive talc-carbonate alteration
243.4 - 243.8 10% biotite alteration; 25% carbonate
243.8 - 244.7 50-75% pervasive talc-carbonate alteration; magnetite present

244.7 - 245.8 10-15% biotite, 25% carbonate alteration
245.8 - 246.55 25-50% pervasive carbonate alteration; 2-3% magnetite as stringers.
246.55 - 247.5 10-20% biotite alteration; 10-25% carbonate alteration

Gradational contact

247.5	248.5	BASALT FLOW; THOLEIITE?; 1a

Similar to Type 1a; Medium - dark grey, fine grained (<1mm), massive, 35-45% plagioclase, 55-65% pyroxene, essentially undeformed and unaltered.

Sharp contact

248.5	264.2	BASALT FLOW; KOMATIITE?; 1a

Dark grey, fine grained (<1mm), massive, 25-30% plagioclase, 65-70% pyroxene, 3-10% magnetite as irregular stringers, local light grey carbonate alteration.

253.1 - 253.2 50% pervasive carbonate alteration
254.3 - 254.7 25-50% pervasive carbonate alteration
257.9 - 258.85 25% pervasive carbonate alteration
259.6 - 259.9 25% pervasive carbonate alteration
260.1 - 260.7 25-50% pervasive carbonate alteration

264.2	264.2	END OF HOLE

DIAMOND DRILL HOLE LL-89-18

Location: Line 37+87.5 West; 12+25 South

SAMPLE MUMBER	FROM(m)	TO(m)	INTEERVAL(m)	ASSAY (oz/ton)	
576	4.8	6.3	1.5	<0.001	
577	7.4	8.9	1.5	0.001	
578	8.9	10.4	1.5	<0.001	
579	10.4	11.6	1.2	<0.001	
580	13.5	15.0	1.5	<0.001	
581	15.0	16.5	1.5	<0.001	
582	16.5	18.3	1.8	<0.001	
583	18.3	18.9	0.6	<0.001	
584	18.9	20.4	1.5	<0.001	
585	24.0	25.3	1.3	0.001	
585	24.0	25.3	1.3	<0.001	check
586	25.3	26.6	1.3	<0.001	
587	28.1	29.4	1.3	<0.001	
588	29.4	30.25	0.85	<0.001	
589	30.25	31.45	1.2	<0.001	
590	31.45	33.0	1.55	<0.001	
591	33.0	34.0	1.0	<0.001	
592	34.0	35.0	1.0	<0.001	
593	35.0	36.5	1.5	0.001	
594	36.5	37.4	0.9	<0.001	check
595	37.4	38.9	1.5	<0.001	
596	38.9	40.4	1.5	<0.001	
597	40.4	40.75	0.35	<0.001	
598	40.75	42.25	1.5	<0.001	
599	42.25	43.75	1.5	0.001	
600	46.4	47.9	1.5	<0.001	
601	47.9	48.9	1.0	0.001	
602	52.25	53.25	1.0	0.001	
603	54.5	56.0	1.5	<0.001	check
604	56.0	57.5	1.5	0.001	
605	57.5	58.45	0.95	0.001	
606	58.45	59.4	0.95	0.013	
607	59.4	60.4	1.0	0.003	
608	60.4	61.4	1.0	0.002	
609	63.35	64.35	1.0	0.001	
610	64.35	65.4	1.05	0.001	
611	65.4	66.9	1.5	0.002	
612	66.9	68.4	1.5	0.009	
612	66.9	68.4	1.5	0.012	check
613	68.4	69.9	1.5	0.002	
614	69.9	71.4	1.5	0.002	
615	71.4	72.65	1.25	<0.001	
616	73.95	75.5	1.55	<0.001	
617	75.5	77.0	1.5	<0.001	
618	77.0	78.5	1.5	<0.001	
619	78.5	80.0	1.5	<0.001	
620	80.0	81.5	1.5	<0.001	
621	81.5	82.5	1.0	<0.001	check

622	84.15	85.6	1.45	<0.001	
623	85.6	87.1	1.5	0.001	
624	87.1	88.1	1.0	0.001	
625	88.1	89.15	1.05	<0.001	
626	89.15	89.85	0.7	<0.001	
627	91.7	92.7	1.0	0.001	
628	94.1	95.1	1.0	<0.001	
629	95.1	96.1	1.0	0.001	
630	97.55	99.0	1.45	<0.001	check
631	99.0	100.4	1.4	<0.001	
632	100.4	101.4	1.4	<0.001	
633	103.05	104.4	1.35	0.001	
634	105.5	106.2	0.7	<0.001	
635	106.2	107.2	1.0	<0.001	
636	108.5	110.0	1.5	<0.001	
637	110.0	111.5	1.5	0.002	
638	111.5	113.0	1.5	<0.001	
639	113.0	114.8	1.8	<0.001	check
640	114.8	115.5	0.7	<0.001	
641	115.5	116.5	1.0	<0.001	
642	116.5	117.4	0.9	<0.001	
643	121.7	123.2	1.5	<0.001	
644	123.2	124.3	1.1	0.001	
645	124.3	125.5	1.2	<0.001	
646	126.5	127.5	1.0	0.001	
647	129.05	130.45	1.4	0.001	
648	130.9	131.9	1.0	<0.001	check
649	131.9	133.45	1.55	0.001	
650	133.45	135.0	1.55	0.001	
651	135.0	136.0	1.0	<0.001	
652	136.0	137.5	1.5	0.001	check
653	137.5	138.7	1.2	0.029	
654	138.7	140.2	1.5	0.011	
655	140.2	141.6	1.4	0.003	
656	141.6	143.0	1.4	0.003	
657	143.0	144.5	1.5	0.007	
658	144.5	145.9	1.4	0.002	
659	145.9	147.4	1.5	<0.001	
660	147.4	148.0	0.6	<0.001	
661	149.2	150.7	1.5	<0.001	
662	150.7	152.4	1.7	0.001	check
663	152.4	153.9	1.5	0.001	
664	153.9	155.1	1.2	0.001	
665	155.1	156.9	1.8	0.001	
666	156.9	158.4	1.5	0.007	
667	158.4	159.9	1.5	0.010	
668	159.9	161.4	1.5	0.001	
669	161.4	162.9	1.5	0.007	
670	162.9	164.3	1.4	0.001	
671	164.3	165.55	1.25	0.001	check
672	165.55	167.1	1.55	0.002	
673	167.1	168.6	1.5	0.003	
674	170.05	171.3	1.25	0.001	
675	172.8	174.3	1.5	0.001	

676	177.95	178.9	0.95	0.001	
677	180.8	182.3	1.5	<0.001	
678	184.5	185.5	1.0	<0.001	
679	186.1	187.5	1.4	<0.001	
680	188.4	189.6	1.5	0.001	check
681	191.4	192.6	1.2	<0.001	
682	192.6	194.1	1.5	0.001	
683	195.5	196.5	1.0	<0.001	
684	197.5	199.0	1.5	<0.001	
685	202.05	203.0	0.95	0.002	
686	203.0	204.0	1.0	0.001	
687	204.0	204.8	0.8	0.001	
688	207.8	208.8	1.0	0.001	
689	209.9	210.8	0.9	<0.001	
689	209.9	210.8	0.9	0.001	check
690	214.0	215.5	1.5	0.001	
691	215.5	217.0	1.5	<0.001	
692	219.6	221.1	1.5	0.001	
693	222.6	223.8	1.2	0.002	
694	229.2	230.3	1.1	0.003	
695	230.3	231.85	1.55	0.001	
696	233.45	234.4	0.95	0.001	
697	234.4	235.3	0.9	0.001	
698	238.3	239.3	1.0	0.002	
698	238.3	239.3	1.0	0.004	check
699	240.6	242.1	1.5	0.001	
700	244.1	244.85	0.75	0.001	
701	244.85	245.8	0.95	<0.001	
702	249.0	250.0	1.0	<0.001	
703	257.9	258.85	0.95	<0.001	

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-19 LOCATION: Line 13+00W; 7+35S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 178.9m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 2.15m

STARTED: April 8,1989 FINISHED: April 10,1989

LOGGED BY: Murray C. Rogers SYSTEM: Metric

ACID TESTS: 61.0m -49.0 degrees
124.0m -44.5 degrees
178.9m -44.0 degrees

FOOTAGE From	To	DESCRIPTION
0.0	2.15	OVERBURDEN
2.15	13.0	MAFIC VOLCANIC MYLONITE; 1am Dark grey, aphanitic-fine grained (<1mm), well developed foliation at 60-65 degrees to the core axis, 75-100% silicification, no original texture or composition remaining, common, minor sericite along foliation surfaces, nil to <0.5% disseminated pyrite, occasional grey quartz veinlets generally parallel to foliation - narrow (1-10mm) Type 1am Sharp contact
13.0	13.9	GABBRO DYKE; 2a Dark grey, fine grained (<1mm), weak foliation at 60-65 degrees to core axis, 40-50% plagioclase, 40-50% pyroxene, 10% dark brown biotite alteration, 1% disseminated pyrite. Type 2a. Sharp contact
13.9	16.1	MAFIC VOLCANIC MYLONITE; 1am Same as Type.

15.4 - 15.55 100% silicification, 1-2% disseminated pyrite. Type 2a.

Sharp contact

16.1 27.45 QUARTZ - FELDSPAR PORPHYRY; PROTOMYLONITE-MYLONITE; 5bm

Medium - dark grey, variably stretched bluish - grey quartz and plagioclase phenocrysts (2-3mm), in an aphanitic to fine grained (<1mm), matrix, weak to strong foliation at 60-65 degrees to the core axis, least altered and deformed rock: 10-15% phenocrysts, 2-3% bluish-grey quartz and 8-12% plagioclase, groundmass, 30-40% plagioclase and 60-70% pyroxene which is locally altered to biotite, variably silicified (10-100%), average 50-75%, minor sericite developed along foliation surfaces, 0.5-1% disseminated pyrite, locally to 10% as blebs and stringers parallel to foliation, minor, local quartz veinlets generally parallel to foliation. Type 5bm.

16.1 - 16.6 75-100% silicification; 0.5-1% pyrite.
16.6 - 17.45 100% silicification, 3-10% pyrite as blebs and stringers parallel to foliation.
17.45 - 18.5 80-100% silica; 1-2% disseminated pyrite
18.5 - 20-15 50-75% silica; 0.5-1% pyrite
20.15 - 21.25 75-100% silica; 0.5% pyrite
21.25 - 22.6 Protomylonite, weakly deformed and altered, 0-50% silica, 0.5-1% pyrite.
22.6 - 23.85 50-100% silica, 0.5% pyrite.
23.85 - 24.1 Fine grained (<1mm) gabbro dyke
24.1 - 26.1 50-75% silica, 0.5-1% disseminated pyrite; foliation at 60 degrees to the core axis.
26.1 - 27.45 80-100% silica, 0.5% pyrite

Sharp contact

27.45 34.8 BASALT FLOW; RELATIVELY UNDEFORMED - PROTOMYLONITE; 1a - 1am

Dark grey, fine grained (<1mm), massive to weak foliation at 60-65 degrees to the core axis, 30-40% plagioclase, 60-70% pyroxene, 0.5% disseminated pyrite - locally to 1%,

unaltered to variably silicified (0-100%), common local dark brown biotite alteration (10-25%), local quartz veinlets - irregular to straight, random to parallel to foliation, narrow (1-10mm). Type 1a - 1am

27.45 - 28.45 25-50% silica, 0.5-1% pyrite
29.0 - 29.2 quartz - feldspar porphyry, protomylonite; 5bm; 50-75% silica
31.05 - 31.2 100% silica
33.4 - 33.9 Tuff unit, protomylonite; 1cm; grain size 1-2mm.
34.25 - 34.8 same as 33.4 - 33.9

Sharp contact

34.8	41.45	QUARTZ - FELDSPAR PORPHYRY MYLONITE; 5bm

Same as Type; well developed foliation at 60-70 degrees to the core axis, 75-100% silica, 0.5-1% disseminated pyrite, locally to 2%, remnant stretched quartz and feldspar phenocrysts.

35.6 - 35.8 Fine grained (1mm) gabbro dyke
38.4 - 38.9 Light grey granodiorite dyke, protomylonite; 4am
40.1 - 40.45 Light grey granodiorite dyke, protomylonite; 4am

Sharp contact

41.45	58.2	GRANODIORITE; RELATIVELY UNDEFORMED TO MINOR PROTOMYLONITE; 4a - 4am

Light grey, medium grained (2-3mm), massive to weakly foliated at 65-70 degrees to the core axis, 10-15% quartz, 15-20% biotite, 65-75% feldspar, plagioclase > K-feldspar, weak magnetite content, <0.5% disseminated pyrite, occasional light green silica veinlets and grey quartz veinlets - generally irregular, random and narrow (1-10mm), decrease in grain size to 1-2 mm near downhole contact. Type 4a - 4am.

47.05 - 47.2 Basalt xenolith

Sharp contact

58.2	60.4	BASALT FLOW; UNDEFORMED TO WEAK PROTOMYLONITE; 1a - 1am Similar to Type; weak foliation at 55 degrees, to core axis, unaltered to weakly altered, local dark brown biotite alteration (to 10%). Sharp contact
60.4	62.4	GRANODIORITE; PROTOMYLONITE; 4a - 4am Same as Type; weakly developed foliation. Sharp contact
62.4	64.1	MAFIC VOLCANIC MYLONITE; 1am Same as Type; well developed foliation at 60 degrees to the core axis, 50-100% silica, 5-15% dark brown biotite, <0.5% disseminated pyrite. Sharp contact
64.1	85.1	QUARTZ - FELDSPAR PORPHYRY; PROTOMYLONITE - MYLONITE; 5bm Same as Type; remnant stretched quartz and feldspar phenocrysts, well developed foliation at 65-70 degrees to the core axis, 25-100% silica, 0.5-1% disseminated pyrite-locally to 2%, local minor quartz veinlets parallel to foliation. 72.55 - 72.85 Light pilnk granodiorite dyke; 4a 72.85 - 74.05 75-100% silica 75.1 - 76.2 50-100% silica 75.7 - 76.8 100% silica 79.35 - 83.9 75-100% silica, 0.5-1% disseminated pyrite, foliation at 65 - 80 degrees to core axis. Sharp contact
85.1	87.4	BASALT FLOW; 1a Undeformed and unaltered; similar to Type; dark grey, fine grained (<1mm), massive, 25-35% plagioclase, 65-75% pyroxene, <0.5% pyrite, common (1-2%) silica veinlets-

irregular to straight, random, narrow (1-3mm).

Sharp contact

87.4	89.5	QUARTZ - FELDSPAR PORPHYRY PROTOMYLONITE; 5bm

Similar to Type; weak foliation at 80 degrees to the core axis, remnant stretched quartz and feldspar phenocrysts, variably silicified (50-100%), 0.5% pyrite locally 1%.

Sharp contact

89.5	90.85	BASALT FLOW; 1a

Similar to 85.1 - 87.4; 20-50% dark brown biotite alteration.

89.9 - 90.05 Quartz-feldspar porphyry dyke; 5b

Sharp contact

90.85	91.65	QUARTZ - FELDSPAR PORPHYRY PROTOMYLONITE; 5bm

Similar to Type; weak foliation at 65-70 degrees to core axis, 25-50% silica.

Sharp contact

91.65	92.25	BASALT FLOW; 1a

Similar to 85.1 - 87.4; 20-50% dark brown biotite alteration

Sharp contact

92.25	96.1	QUARTZ - FELDSPAR PORPHYRY PROTOMYLONITE - MYLONITE; 5bm

Similar to Type; weak to well developed foliation at 65-70 degrees to the core axis, variably altered, 0-100% silica (average 25-50%), 0.-25% biotite locally, 0.5% disseminated pyrite, rarely to 2-3% as blebs and stringers parallel to foliation.

92.25 - 94.3 25-50% silica; local biotite to 25%

94.3 - 94.4 basalt xenolith
94.4 - 94.75 75- 100% silica
94.75 - 94.95 basalt xenolith
95.2 - 95.35 basalt xenolith
95.35 - 96.1 25-75% silica

Sharp contact

96.1 100.7 BASALT FLOW; 1a

Undeformed to weakly foliated; similar to 85.1 - 87.4; weak silica local (5-25%), local, minor (5-15%), dark brown biotite alteration, <0.5% disseminated pyrite, locally to 1-2%

Gradational contact over 50cm.

100.7 123.5 MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak to well developed foliation at 60-65 degrees to core axis, variably altered, 10-100% silica, average 25-75%, local biotite alteration (10-25%), <0.5% disseminated pyrite, locally to 2-3% as blebs and stringers, occasional silica or grey quartz veinlets - irregular to straight, random to parallel to foliation and narrow (1-20mm).

101.4 - 101.7 75-100% silica
102.1 - 107.6 50-100% silica
107.6 - 107.9 10% biotite, 15-30% fine grained sericite
107.9 - 109.2 25% biotite alteration
109.2 - 112.2 75-100% silica, common (1-2%) white silica veinlets - generally irregular, random and narrow (1-5mm, occasionally to 2cm).
112.2 - 112.55 Gabbro dyke; 2a
112.55 - 113.75 80-100% silica, 1% silica veinlets.
113.75 - 114.35 25% biotite alteration, minor carbonate alteration
114.35 - 18.15 100% silica, 1-2% white silica veinlets - locally to 5-10% as a stockwork.
115.2 - 115.55 Remnant intrusive dyke, 2-3mm grain size, 100% silica.
117.15 - 117.8 5-10% white silica veinlets as an irregular stockwork.
118.15 - 119.2 50% silica
119.2 - 121.65 100% silica, 1-2% white silica

and grey quartz veinlets generally parallel to foliation.
121.65 - 123.5 25-75% silica, common biotite (5-20%)

Gradational contact over 1.0 metre.

123.5	126.0	BASALT FLOW; WEAK PROTOMYLONITE; 1a - 1am

Similar to Type; weak foliation at 65 degrees to core axis, unaltered to weakly altered, common silica (10-25%), common dark brown biotite alteration (5-25%), <0.5% pyrite.

Gradational contact over 1.0 metre.

126.0	138.55	MAFIC VOLCANIC PROTOMYLONITE - MYLONITE; 1am

Similar to Type; weak to locally well developed foliation at 65 degrees to core axis, variably altered, 10-50% silica, local narrow sections to 100%, minor (5-15%) biotite locally, occasional narrow (1-5mm) silica veinlets generally parallel to foliation, <0.5% disseminated pyrite.
136.0 - 137.0 15-25% biotite alteration; minor, pervasive carbonate alteration; possible fine grained gabbro dyke.
138.45 - 138.55 Grey quartz vein at about 45 degrees to core axis.

Sharp contact

138.55	140.15	GABBRO; 2a

Similar to Type; fine grained (1-2mm), some pyroxene alteration up to 10% dark brown biotite, 0.5-1% disseminated pyrite, common (1%) white silica and occasional grey quartz veinlets.

Sharp contact

140.15	143.0	BASALT FLOW; 1a

Similar to Type; relatively undeformed and unaltered.

Gradational contact over 50 cm.

143.0	144.7	MAFIC VOLCANIC PROTOMYLONITE; 1am

Similar to Type; weak foliation at 60 degrees to core axis, variably altered, 10-50% silica, local biotite alteration (10-25%), occasional grey quartz veinlets parallel to foliation.

Gradational contact over 50 cm.

144.7	146.75	BASALT FLOW; 1a

Similar to Type; relatively undeformed and unaltered; local minor silica or biotite alteration.

Gradational contact over 20 cm.

146.75	156.2	MAFIC VOLCANIC PROTOMYLONITE; 1am

Similar to Type; weak to good foliation at 70-75 degrees to core axis, variably altered, 0-100% silica, average 20-50%; local dark brown biotite alteration (5-25%), <0.5% disseminated pyrite, locally to 1-2%, occasional silica or grey quartz veinlets parallel to foliation.

146.75 - 147.9 75-100% silica
147.9 - 149.4 25% silica, 15-25% biotite alteration
149.4 - 150.5 5-10% biotite, local 5-10% chlorite, minor (5-20%) silica.
150.5 - 151.35 Unaltered to 50% silica
151.35 - 151.85 Gabbro dyke; 2a; extensive biotite and chlorite alteration
151.85 - 152.65 25-75% silica
152.65 - 156.2 10-50% silica, average 15-25%, common biotite alteration (10-25%).

Sharp contact

156.2	159.7	DIORITE; PROTOMYLONITE; 2cm

Medium grey, fine - medium grained (1-2mm), weak foliation at 55-60 degrees to core axis, 5-10% quartz, 10-15% biotite, 75-85% feldspar, plagioclase > K-feldspar, 0.5-1% disseminated pyrite, common light green silica veinlets. Type 2cm.

157.5 - 157.65 basalt xenolith

Sharp contact

159.7	160.6	BASALT FLOW; PROTOMYLONITE; 1am

Same as Type; weak foliation at 60 degrees to core axis, unaltered.

Sharp contact

160.6	161.7	DIORITE; PROTOMYLONITE; 2cm

Same as Type.

Sharp contact

161.7	168.8	BASALT FLOW; 1a

Similar to Type; relatively undeformed; weak foliation locally at 60 degrees to core axis, unaltered to locally altered, locally silicified, local dark brown biotite alteration (5-15%), 1% white silica veinlets.

163.4 - 164.0 25-50% silica
166.2 - 166.4 50% silica
168.5 - 168.8 50% silica

Gradational contact over 20 cm.

168.8	178.9	MAFIC VOLCANIC PROTOMYLONITE; 1am

Similar to Type; weak to locally well developed foliation at 50-55 degrees to core axis, variably altered, 10-100% silica, local biotite alteration (5-25%), <0.5% pyrite, occasional grey quartz veinlets parallel to foliation.

168.8 - 170.0 50% silica
171.4 - 172.5 50-100% silica
172.5 - 172.7 25% biotite alteration
172.7 - 178.9 50-100% silica

178.9	178.9	END OF HOLE

DIAMOND DRILL HOLE LL-89-19

Location: Line 13+00 West; 7+35 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY (oz/ton)	
704	2.15	3.66	1.51	<0.001	
705	3.66	5.2	1.55	<0.001	
706	5.2	6.7	1.5	<0.001	
707	6.7	7.9	1.2	<0.001	check
708	7.9	9.4	1.5	<0.001	
709	9.4	10.9	1.5	<0.001	
710	10.9	12.4	1.5	<0.001	
711	12.4	13.0	0.6	0.002	
712	13.9	14.9	1.0	<0.001	
713	14.9	16.1	1.2	<0.001	
714	16.1	16.6	0.5	0.001	
715	16.6	17.45	0.85	0.001	
716	17.45	18.5	1.05	<0.001	check
717	18.5	20.0	1.5	<0.001	
718	20.0	21.5	1.5	<0.001	
719	21.5	22.6	1.1	<0.001	
720	22.6	24.1	1.5	<0.001	
721	24.1	25.1	1.0	<0.001	
722	25.1	26.1	1.0	<0.001	
723	26.1	27.45	1.35	<0.001	
724	27.45	28.45	1.0	<0.001	
725	30.6	31.3	0.7	<0.001	check
726	33.8	34.8	1.0	0.001	
727	34.8	36.3	1.5	<0.001	
728	36.3	37.8	1.5	0.001	
729	37.8	39.3	1.5	<0.001	
730	39.3	40.45	1.15	0.001	
731	40.45	41.45	1.0	<0.001	
732	41.45	42.45	1.0	<0.001	
733	47.2	48.2	1.0	0.001	
734	53.2	54.2	1.0	<0.001	
734	53.2	54.2	1.0	0.001	check
735	57.2	58.2	1.0	<0.001	
736	58.2	59.2	1.0	0.001	
737	61.4	62.4	1.0	<0.001	
738	62.4	64.1	1.7	<0.001	
739	64.1	65.45	1.35	0.001	
740	65.45	66.9	1.45	0.001	
741	66.9	68.4	1.5	<0.001	
742	68.4	69.7	1.3	<0.001	
743	69.7	71.2	1.5	<0.001	check
744	71.85	73.35	1.5	<0.001	
745	73.35	75.1	1.75	<0.001	
746	75.10	75.90	0.8	<0.001	
747	75.9	76.8	0.9	<0.001	
748	76.8	78.3	1.5	<0.001	
749	78.3	79.8	1.5	0.001	
750	79.8	81.2	1.4	0.001	

751	81.2	82.8	1.6	<0.001	
752	82.8	84.0	1.2	0.001	
752	82.8	84.0	1.2	0.002	check
753	84.0	85.5	1.5	<0.001	
754	86.85	88.35	1.5	0.001	
755	88.35	89.5	1.15	<0.001	
756	89.5	90.85	1.35	0.003	
757	90.85	92.25	1.4	0.001	
758	92.25	93.75	1.5	0.001	
759	93.75	95.25	1.5	<0.001	
760	95.25	96.1	0.85	<0.001	
761	96.1	97.1	1.0	0.001	
761	96.1	97.1	1.0	<0.001	check
762	97.7	101.2	3.5	0.001	
763	101.2	102.7	1.5	<0.001	
764	102.7	104.2	1.5	0.001	
765	104.2	105.5	1.3	<0.001	
766	105.5	107.0	1.5	<0.001	
767	107.0	107.6	0.6	<0.001	
768	107.6	109.3	1.7	<0.001	
769	109.3	110.8	1.5	<0.001	
770	110.8	112.2	1.4	<0.001	check
771	112.55	113.75	1.2	<0.001	
772	113.75	115.15	1.4	<0.001	
773	115.15	116.65	1.5	<0.001	
774	116.65	118.15	1.5	<0.001	
775	118.15	119.65	1.5	<0.001	
776	119.65	120.65	1.0	0.001	
777	120.65	121.65	1.0	<0.001	
778	121.65	123.0	1.35	<0.001	
779	123.0	124.5	1.5	<0.001	
779	123.0	124.5	1.5	0.001	check
780	124.5	126.0	1.5	<0.001	
781	126.0	127.5	1.5	0.001	
782	127.0	129.0	2.0	<0.001	
783	129.0	130.5	1.5	0.001	
784	130.5	132.0	1.5	<0.001	
785	132.0	133.5	1.5	<0.001	
786	133.5	135.0	1.5	<0.001	
787	135.0	136.0	1.0	<0.001	
788	136.0	137.0	1.0	<0.001	check
789	137.0	138.55	1.55	<0.001	
790	142.7	143.9	1.2	<0.001	
791	143.9	145.4	1.5	<0.001	
792	146.75	147.9	1.15	<0.001	
793	147.9	149.4	1.5	<0.001	
794	149.4	150.5	1.1	<0.001	
795	150.5	151.35	0.85	<0.001	
796	151.85	153.15	1.3	<0.001	
797	153.15	154.65	1.5	<0.001	check
798	154.65	156.2	1.55	<0.001	
799	156.2	157.2	1.0	<0.001	
800	163.2	164.2	1.0	<0.001	
801	165.7	166.7	1.0	<0.001	

802	168.2	169.8	1.6	<0.001	
803	170.8	172.3	1.5	0.001	
804	173.8	175.3	1.5	<0.001	
805	176.65	177.85	1.2	<0.001	check

DIAMOND DRILL RECORD

LAIRD LAKE PROJECT

HOLE NUMBER: LL-89-20 LOCATION: Line 15+00W; 7+25S

AZIMUTH: 0 degrees DIP: -50 degrees LENGTH: 123.1m

DRILLED BY: N. Morissette CORE DIAMETER: BQ CASING: 3.66m

STARTED: April 10, 1989 FINISHED: April 11, 1989

LOGGED BY: Viera Kovac SYSTEM: Metric

ACID TESTS: 60.95m -48 degrees
121.91m -46 degrees

FOOTAGE From	To	DESCRIPTION
0.0	1.9	OVERBURDEN
1.9	23.4	BASALT; MYLONITE; 1am

Fine grained, moderately foliated, medium greenish-grey, non-magnetic, non-carbonated, siliceous volcanic. Strong silicification 80-100%, sparse 5-10%, thin (1-2mm) quartz-carbonate stringers, minor microfaults near the uphole contact. Moderate to local strong foliation is 55-70 degrees to the core axis. Trace to 1% fine, disseminated pyrite generally associated with quartz stringers or with strongly silicified sections. Very minor 1-2% local brown biotite alteration. Sharp downhole contact at a very low angle; 25 degrees to the core axis.

3.35 - 6.2 Strongly silicified 70-100%, with local 1% pyrite, disseminated and as hairline stringers.
3.45 & 8.5 Microfaults parallel to the core axis, with a displacement of 3-4mm.
9.0 - 9.8 Mafic Tuff; 1b
Fine grained, weakly foliated with 3-5% brown biotite. Sharp contacts parallel to foliation.
9.8 - 10.4 80% silica with rare hard, pink mineral (garnet?)
11.5 - 11.7 Strong quartz-carbonate stringers

at a low angle to the core axis.

15.4 - 16.8 70-80% silica, 1% disseminated pyrite and as hairline stringers, minor microfaults.
16.8 - 17.2 Mafic Tuff; 1b
Medium green unit with abundant 15% hairline quartz stringers. Sharp downhole contact at 20 degrees to the core axis, broken and obscured uphole contact.
18.05 - 18.45 Mafic Tuff; 1b
Similar to above, except there are only rare hairline quartz stringers here. Sharp contacts perpendicular to the core axis.
19.5 - 19.9 Mafic Tuff; 1b
10% biotite alteration, 5-10% quartz hairline stringers. Sharp uphole and downhole contacts 55-65 degrees to the core axis respectively.
19.9 - 21.2 90% silica, 1% disseminated and hairline pyrite stringers.
21.55 - 21.9 Mafic Tuff; 1b
Medium to coarse grained, massive, medium grey unit with 45%, 1-3mm diameter, white feldspar crystals in a fine mafic, 15% biotite enriched matrix. Sharp uphole and downhole contacts 55 and 50 degrees to the core axis, respectively.
21.9 - 23.0 60-80% silica, trace to 1% pyrite

23.4 44.8 GRANODIORITE; MYLONITE; 4am

Medium grained, moderately foliated, medium grey with local tan sections. Good crystalline texture with 40%, 1-3mm lensoidal feldspar crystals, oriented in the direction of foliation. Strong (3-5%) pyrite, disseminated, predominantly near the uphole contact. Very rare, local magnetite, sparse 2%, 1mm wide quartz-carbonate stringers near the uphole contacts Foliation is 70 degrees to the core axis.

23.4 3% pyrite (disseminated and as hairline stringers parallel to the foliation).
23.5 - 23.55 broken and blocky core
23.4 - 25.15 3% pyrite (disseminated and as hairline stringers parallel to the foliation).
28.0 - 28.4 1-2% pyrite stringers parallel to the foliation.
28.1 - 28.4 60% blocky core

31.7 - 34.2 Basalt; 1a
Fine grained to coarse grained, massive to very weakly foliated near the uphole contact. Medium green to greyish-green colour, 10% biotite alteration. Sharp uphole and downhole contacts at 60 degrees to the core axis.

31.7 - 32.5 Moderately foliated, 3-5% 3-5mm diameter feldspar grains, 3% biotite alteration. Sparse 1-2% hairline quartz stringers randomly oriented. Trace pyrite.

33.5 - 34.2 coarse grained volcanic flow. massive 2-3mm diameter, green, sub-rounded (subhedral?) hornblende crystals. Weak to moderate crystalline texture. No visible sulphides.

35.1 - 37.3 Granodiorite; mylonite; 4am
5-10% pyrite enrichment (as disseminated and as stringers parallel to the foliation). Minor local microfaults near the uphole contact, but this unit is gradational with the rest of the granodiorite unit. Very rare, local magnetite?. Foliation is 65 degrees to the core axis.

35.35 - 35.4 magnetite associated with minor pyrite.

39.3 - 39.5 3-5% pyrite as disseminatd and as hairline stringers in mylonitized granodiorite.

40.15 - 40.3 Basalt; mylonite; 1am
Fine grained, weakly foliated, medium green with 1mm diameter darker green mafic (hornblende) crystals, somewhat lensoidal. Sharp contacts at 70 degrees to the core axis

41.6 - 41.8 Basalt; mylonite; 1am
30% wispy, pervasive carbonate, minor biotite. Sharp contacts at 55 degrees to the core axis.

44.5 - 44.6 Siliceous, bleached white feldspar interval with 10%, 1mm diameter clear quartz eyes. Non-magnetic, non-carbonated.

44.8 72.5 BASALT; MYLONITE; 1am

Fine to medium grained, massive to very weakly foliated, locally moderately foliated, medium greyish-green in colour. Foliation is 55 degrees to the core axis. Minor tuffaceous intervals, also minor local 10% biotite, predominantly associated with tuffaceous

sections and coarser grained intervals, Non-magnetic, non-carbonated. Trace to 2% local pyrite, Minor microfault with a displacemnet of upto 3mm. Gradational downhole contact.

46.2 - 46.4 Basalt tuff; 1b
Fine grained, massive, brownish - grey with 1-2% fine grained pyrite, minor biotite. Sharp uphole and downhole contacts, at 70 and 75 degrees to the core axis, respectively.
46.4 - 48.0 1-2% very fine grained disseminated subhedral and euhedral pyrite. 70% silica, local minor microfaults.
47.2 - 47.4 Granitic dyke, sharp contacts
47.4 - 47.7 Coarse grained basalt flow.
53.6 - 53.65 Granitic dyke with 1% pyrite along the downhole contact 70 degrees to the core axis.
59.7 - 64.25 Moderately well silicified, 60-80% silica with 1% fine grained disseminated pyrite as well as local pyrite stringers.
70.9 - 72.0 Moderately siliceous orangish-grey unit.

72.5 89.8 BASALT WITH GRANODIORITE CONTAMINATION; 4c

This unit is composed of basalt and granodiorite, forming a hybrid rock, with a varible mineralogical composition. Possibly formed from the granitization of the mafic volcanics. This hybrid rock is non-magnetic with locally abundant quartz-carbonate stringers and 3-5% hairline greenish quartz stringers randomly oriented. Minor, local microfaults with a displacement of 5mm. Weakly silicified, trace pyrite. Gradational uphole contact, distinct, but obscured downhole contact.

BASALT: Fine grained, massive to locally very weakly foliated, medium greenish-grey unit with rare trace pyrite.
GRANODIORITE: Medium grained, massive, pinkish near the uphole contact, equigranular, crystalline texture. Occurs as dykelets and as partially digested stringers and blebs. No visible sulphides. Granodiorite dykes vary from 1cm - 1.5m in width.

72.7 - 74.2 Granodiorite
Medium grained, equigranular, crystalline,

pinkish-grey with 10% hairline quartz stringers at a low angle to the core axis. Local micro-faults, rare trace pyrite. Sharp uphole and downhole contacts at 80 and 55 degrees to the core axis, respectively.

75.65 - 76.1 Granodiorite, similar to the above, obscured uphole contact, sharp downhole contact at 25 degrees to the core axis.
77.35 - 77.5 Granodiorite, fine grained, orangish-pink in colour with a felsic matrix. Very rare trace pyrite.
83.75 - 84.1 Pyroxene Porphyry; 2d. 30%, 3-5mm, subhedral and euhedral pyroxene in a fine grained felsic, pinkish matrix. No visible sulphides, non-carbonated.
85.5 - 86.4 Basalt with 35% carbonate alteration as wispy stringers generally associated with quartz veinlets. Rare trace disseminated pyrite.
88.8 - 89.8 Gabbro; Medium grained, massive, crystalline texture with well developed euhedral 1-2mm hornblende crystals in a fine grained, mafic matrix. No visible sulphides.

89.0 123.1 KOMATIITE WITH GRANODIORITE CONTAMINATION; 1a (kom?)4a

This unit is prdominatntly composed of komatiite cross-cut with 20% granodiorite dykes. These granodiorite dykes contain 10-80% komatiite xenoliths.

Komatiite: Very fine grained, medium grey, magnetic, non-carbonated, non to very weakly, locally silicified. 5% black hairline stringers randomly oriented.
Granodiorite: Coarse grained, crystalline, equigranular with 10-80%, subangular komatiite xenoliths. These xenoliths range from 3mm to 20cm in diameter, they have thick 2-3mm (sericitic??) reaction rims (rind).Trace to 1% local pyrite. Biotite enriched (10-20%) . Feldspar is predominantly plagioclase.

91.0 - 92.0 Granodiorite with 50% xenoliths, 1% local disseminated pyrite.
92.4 - 98.0 Komatiite with 10-15% granodioritic dykes

100.0 - 102.7 10% blocky core
100.8 - 101.0 & 102.7 - 102.8 Coarse grained flow with 2% fine grained disseminated pyrite. Non-magnetic.
103.3 - 113.6 35% granodiorite (with xenoliths)
103.3 - 106.2 xenoliths are large, average is 10cm diameter with very distinct, thick reaction rims.
105.4 - 111.5 10-15% blocky core
117.0 - 118.5 80% granodiorite, weakly silicified. Trace pyrite.
120.6 - 120.8 Mafic volcanic with 10% pyrite occuring as a 2cm wide veinlet.

123.1	123.1	END OF HOLE

DIAMOND DRILL HOLE LL-89-20

Location: Line 15+00 West; 7+75 South

SAMPLE NUMBER	FROM(m)	TO(m)	INTERVAL(m)	ASSAY (oz/ton)	
806	1.9	3.35	1.45	<0.001	
807	3.3	4.9	1.6	<0.001	
808	4.9	6.2	1.3	<0.001	
809	6.2	7.4	1.2	<0.001	
810	7.4	8.85	1.45	<0.001	
811	8.85	10.4	1.55	<0.001	
812	10.4	11.5	1.1	<0.001	
813	11.5	12.9	1.4	<0.001	
814	12.9	14.4	1.5	<0.001	
815	14.4	15.85	1.45	<0.001	check
816	15.85	17.3	1.45	<0.001	
817	17.3	18.75	1.45	<0.001	
818	18.75	20.15	1.4	<0.001	
819	20.15	21.55	1.4	<0.001	
820	21.55	23.0	1.45	<0.001	
821	23.0	23.4	0.4	<0.001	
822	23.4	24.4	1.0	0.001	
823	24.4	25.15	0.75	0.001	
824	25.15	26.5	1.35	<0.001	check
825	26.5	27.25	0.75	<0.001	
826	27.25	28.4	1.15	<0.001	
827	28.4	29.7	1.3	<0.001	
828	29.7	30.7	1.0	<0.001	
829	30.7	31.7	1.0	<0.001	
830	31.7	33.0	1.3	0.001	
831	33.0	34.2	1.2	<0.001	
832	34.2	35.7	1.5	0.002	
833	35.7	37.3	1.6	0.001	check
834	37.3	38.7	1.4	<0.001	
835	38.7	40.3	1.6	<0.001	
836	40.3	41.8	1.5	<0.001	
837	41.8	43.3	1.5	<0.001	
838	43.3	44.8	1.5	<0.001	
839	44.8	46.2	1.4	<0.001	
840	46.2	48.0	1.8	<0.001	
841	48.0	49.5	1.5	<0.001	check
842	49.5	51.0	1.5	<0.001	
843	51.0	52.5	1.5	<0.001	
844	52.5	53.9	1.4	<0.001	
845	55.5	56.55	1.05	0.002	
846	59.7	61.2	1.5	<0.001	
847	62.0	63.8	1.8	0.001	
848	64.8	66.1	1.3	<0.001	
849	66.1	66.75	0.65	<0.001	
850	68.75	69.7	0.95	<0.001	
851	71.6	72.7	1.1	<0.001	check
852	74.3	75.65	1.35	<0.001	
853	77.6	78.3	1.7	<0.001	

854	77.4	78.4	1.0	<0.001	
855	85.5	86.4	0.9	<0.001	
856	90.0	91.0	1.0	<0.001	
857	91.0	92.0	1.0	<0.001	
858	93.6	94.9	1.3	<0.001	
859	96.7	97.4	0.7	<0.001	
860	100.5	102.0	1.5	<0.001	check
861	102.0	104.0	2.0	<0.001	
862	106.0	107.5	1.5	<0.001	
863	111.0	112.5	1.5	<0.001	
864	117.0	118.5	1.5	<0.001	
865	118.5	120.0	1.5	<0.001	
866	120.0	121.5	1.5	0.001	
866	120.0	121.5	1.5	<0.001	check

Appendix B

Rock Assay Certificates

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26053

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 2 19 83

Work Order # : 18111
Project : :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
261276	1001	<0.001	
261277	1002	<0.001	
261278	1003	0.001	
261279	1004	<0.001	
261280	1005	<0.001	
261281	1006	<0.001	
261282	1007	<0.001	
261283	1008	<0.001	
261284	1009	<0.001	
261285	1010	<0.001	
261285	1010	<0.001	Check
261286	1011	<0.001	
261287	1012	<0.001	
261288	1013	<0.001	
261289	1014	0.001	
261290	1015	0.001	
261291	1016	0.002	
261292	1017	<0.001	
261293	1018	<0.001	
261294	1019	<0.001	
261294	1019	<0.001	Check
261295	1020	<0.001	
261296	1021	<0.001	
261297	1022	<0.001	
261298	1023	0.001	
261299	1024	<0.001	
261300	1025	0.001	
261301	1026	0.011	
261302	1027	0.001	
261303	1028	<0.001	
261303	1028	<0.001	Check

Per: Sonja Pavlenko

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Murray Rogers
26054 Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 2 19 89

Work Order # : 18121-2
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
261304	1029	0.005	
261305	1030	0.001	
261306	1031	<0.001	
261307	1032	<0.001	
261308	1033	<0.001	
261309	1034	0.001	
261310	1035	0.001	
261311	1036	<0.001	
261312	1037	0.001	
261312	1037	0.001	Check
261313	1038	0.001	
261314	1039	0.001	
261315	1040	0.001	
261316	1041	<0.001	
261317	1042	<0.001	
261318	1043	0.001	
261319	1044	0.001	
261320	1045	<0.001	
261321	1046	<0.001	
261321	1046	<0.001	Check
261322	1047	<0.001	
261323	1048	0.001	
261324	1049	0.001	
261325	1050	0.001	
261326	1051	0.001	
261327	1052	0.001	
261328	1053	<0.001	
261329	1054	0.001	
261330	1055	0.002	
261330	1055	0.001	Check
261331	1056	<0.001	

Per: Sonja Wemiachek

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Murray Rogers
26055 Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 2 19 89

Work Order # : 18121
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
261332	1057	<0.001	
261333	1058	<0.001	
261334	1059	<0.001	
261335	1060	<0.001	
261336	1061	<0.001	
261337	1062	<0.001	
261338	1063	<0.001	
261339	1064	<0.001	
261339	1064	<0.001	Check
261340	1065	<0.001	
261341	1066	<0.001	
261342	1067	<0.001	
261343	1068	<0.001	
261344	1069	<0.001	
261345	1070	<0.001	
261346	1071	<0.001	
261347	1072	<0.001	
261348	1073	0.008	
261348	1073	0.011	Check
261349	1074	<0.001	
261350	1075	<0.001	
261350	1075	0.001	Check

LF-30

Per: Sonja Pavlachek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Murray Rogers
Black Cliff Mines Ltd.
26109 Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 8 19 89

Work Order # : 181221
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262275	1076	0.001	
262276	1077	<0.001	
262277	1078	0.009	
262278	1079	0.001	
262279	1080	<0.001	
262280	1081	<0.001	
262281	1082	0.001	
262282	1083	<0.001	
262283	1084	0.003	
262284	1085	<0.001	
262284	1085	<0.001	Check
262285	1086	<0.001	
262286	1087	<0.001	
262287	1088	0.001	
262288	1089	<0.001	
262289	1090	0.001	
262290	1091	0.003	
262291	1092	0.001	
262292	1093	0.002	
262293	1094	0.007	
262293	1094	0.009	Check
262294	1095	0.001	
262295	1096	0.001	
262296	1097	<0.001	
262297	1098	0.002	
262298	1099	<0.001	
262299	1100	0.001	
262300	1101	0.001	
262301	1102	<0.001	
262302	1103	<0.001	
262302	1103	<0.001	Check

Per: [signature]

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Murray Rogers
Black Cliff Mines Ltd.
26110 Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 8 19 89

Work Order # : 181221
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262303	1104	<0.001	
262304	1105	<0.001	
262305	1106	<0.001	
262306	1107	<0.001	
262307	1108	0.001	
262308	1109	0.003	
262309	1110	0.001	
262310	1111	0.001	
262311	1112	0.001	
262311	1112	0.001	Check
262312	1113	<0.001	
262313	1114	<0.001	
262314	1115	<0.001	
262315	1116	<0.001	
262316	1117	<0.001	
262317	1118	0.001	
262318	1119	<0.001	
262319	1120	<0.001	
262320	1121	<0.001	
262320	1121	<0.001	Check
262321	1122	<0.001	
262322	1123	<0.001	
262323	1124	0.001	
262324	1125	<0.001	
262325	1126	<0.001	
262326	1127	0.001	
262327	1128	<0.001	
262328	1129	0.001	
262329	1130	0.001	
262329	1130	0.001	Check
262330	1131	0.001	

LF-30

Per: [signature]

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J6
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26111

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 8 19 88

Work Order # : 181221
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262331	1132	0.003	
262332	1133	<0.001	
262333	1134	<0.001	
262334	1135	<0.001	
262335	1136	<0.001	
262336	1137	<0.001	
262337	1138	0.001	
262338	1139	0.001	
262338	1139	0.001	Check
262339	1140	<0.001	
262340	1141	<0.001	
262341	1142	<0.001	
262342	1143	<0.001	
262343	1144	<0.001	
262344	1145	<0.001	
262345	1146	<0.001	
262346	1147	<0.001	
262347	1148	<0.001	
262347	1148	<0.001	Check
262348	1149	0.001	
262349	1150	<0.001	
262350	1151	<0.001	
262351	1152	<0.001	
262352	1153	0.001	
262353	1154	0.002	
262354	1155	<0.001	
262355	1156	<0.001	
262356	1157	<0.001	
262356	1157	0.001	Check
262357	1158	0.001	
262358	1159	<0.001	

Per: Blaine Vuk

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

26112

Date: March 8 19[illegible]

Work Order # : 181221
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262359	1160	0.003	
262360	1161	0.001	
262361	1162	<0.001	
262362	1163	<0.001	
262363	1164	0.001	
262364	1165	<0.001	
262364	1165	<0.001	Check

LF-30

Per: [signature]

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26113

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 9 19 89

Work Order # : 101223
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262400	1166	<0.001	
262401	1167	<0.001	
262402	1168	<0.001	
262403	1169	<0.001	
262404	1170	<0.001	
262405	1171	0.001	
262406	1172	<0.001	
262407	1173	<0.001	
262408	1174	<0.001	
262409	1175	<0.001	
262409	1175	<0.001	Check
262410	1176	0.001	
262411	1177	<0.001	
262412	1178	0.001	
262413	1179	<0.001	
262414	1180	<0.001	
262415	1181	<0.001	
262416	1182	0.001	
262417	1183	<0.001	
262418	1184	<0.001	
262418	1184	<0.001	Check
262419	1185	0.001	
262420	1186	<0.001	
262421	1187	0.001	
262422	1188	<0.001	
262423	1189	<0.001	
262424	1190	<0.001	
262425	1191	<0.001	
262426	1192	<0.001	
262427	1193	<0.001	
262427	1193	<0.001	Check

Per: Blaine Nutt

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26114

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 9 19 87

Work Order # : 1R1333
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262428	1194	<0.001	
262429	1195	<0.001	
262430	1196	<0.001	
262431	1197	0.001	
262432	1198	0.003	
262433	1199	<0.001	
262434	1200	<0.001	
262435	1201	<0.001	
262436	1202	<0.001	
262436	1202	<0.001	Check
262437	1203	<0.001	
262438	1204	<0.001	
262439	1205	<0.001	
262440	1206	<0.001	
262441	1207	<0.001	
262442	1208	<0.001	
262443	1209	0.001	
262444	1210	0.001	
262445	1211	<0.001	
262445	1211	<0.001	Check
262446	1212	<0.001	
262447	1213	<0.001	
262448	1214	0.001	
262449	1215	0.001	
262450	1216	0.002	
262451	1217	<0.001	
262452	1218	0.001	
262453	1219	<0.001	
262454	1220	0.001	
262454	1220	<0.001	Check
262455	1221	<0.001	

LF-30

Per: Blaine Kutch

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26115

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 9 19 89

Work Order # : 19123
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262456	1222	<0.001	
262457	1223	<0.001	
262458	1224	<0.001	
262459	1225	<0.001	
262460	1226	<0.001	
262461	1227	<0.001	
262462	1228	<0.001	
262463	1229	<0.001	
262463	1229	<0.001	Check
262464	1230	<0.001	
262465	1231	0.001	
262466	1232	0.001	
262467	1233	0.001	
262468	1234	<0.001	
262469	1235	0.001	
262470	1236	<0.001	
262471	1237	<0.001	
262472	1238	<0.001	
262472	1238	<0.001	Check
262473	1239	<0.001	
262474	1240	<0.001	
262475	1241	0.001	
262476	1242	<0.001	
262477	1243	0.001	
262478	1244	0.001	
262478	1244	<0.001	Check

Per: Blaine Welch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26165

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 13 19 89

Work Order # : 1813-B
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262772	1245	<0.001	
262773	1246	<0.001	
262774	1247	<0.001	
262775	1248	<0.001	
262776	1249	<0.001	
262777	1250	<0.001	
262778	1251	<0.001	
262779	1252	<0.001	
262780	1253	<0.001	
262781	1254	<0.001	
262781	1254	<0.001	Check
262782	1255	<0.001	
262783	1256	<0.001	
262784	1257	<0.001	
262785	1258	<0.001	
262786	1259	<0.001	
262787	1260	<0.001	
262788	1261	<0.001	
262789	1262	<0.001	
262790	1263	<0.001	
262790	1263	<0.001	Check
262791	1264	<0.001	
262792	1265	<0.001	
262793	1266	<0.001	
262794	1267	0.001	
262795	1268	<0.001	
262796	1269	<0.001	
262797	1270	0.002	
262798	1271	<0.001	
262799	1272	<0.001	
262799	1272	<0.001	Check

LF-30

Per: Blaine Verbeek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26166

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 13 19 87

Work Order # : 181230
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262800	1273	<0.001	
262801	1274	<0.001	
262802	1275	<0.001	
262803	1276	0.001	
262804	1277	<0.001	
262805	1278	<0.001	
262806	1279	<0.001	
262807	1280	<0.001	
262808	1281	<0.001	
262808	1281	<0.001	Check
262809	1282	<0.001	
262810	1283	<0.001	
262811	1284	<0.001	
262812	1285	<0.001	
262813	1286	<0.001	
262814	1287	0.001	
262815	1288	0.001	
262816	1289	<0.001	
262817	1290	<0.001	
262817	1290	<0.001	Check
262818	1291	<0.001	
262819	1292	0.001	
262820	1293	0.002	
262821	1294	0.001	
262822	1295	<0.001	
262823	1296	<0.001	
262824	1297	0.001	
262825	1298	<0.001	
262826	1299	<0.001	
262826	1299	<0.001	Check
262827	1300	<0.001	

Per: Blaine Vuitch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26167

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 13 19 89

Work Order # : 1B1228
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
262828	1301	0.001	
262829	1302	<0.001	
262830	1303	0.001	
262831	1304	<0.001	
262832	1305	0.001	
262833	1306	<0.001	
262834	1307	<0.001	
262835	1308	0.001	
262835	1308	<0.001	Check
262836	1309	0.001	
262837	1310	0.001	
262838	1311	<0.001	
262838	1311	<0.001	Check

LF-30

Per: Blaine Welch

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26184

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 14 19 89

Work Order # : 181332
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263149	1312	<0.001	
263150	1313	<0.001	
263151	1314	<0.001	
263152	1315	<0.001	
263153	1316	0.001	
263154	1317	<0.001	
263155	1318	0.001	
263156	1319	0.001	
263157	1320	<0.001	
263158	1321	<0.001	
263158	1321	<0.001	Check
263159	1322	<0.001	
263160	1323	0.001	
263161	1324	<0.001	
263162	1325	<0.001	
263163	1326	0.001	
263164	1327	<0.001	
263165	1328	<0.001	
263166	1329	0.004	
263167	1330	0.001	
263167	1330	0.001	Check
263168	1331	<0.001	
263169	1332	0.001	
263170	1333	0.001	
263171	1334	<0.001	
263172	1335	<0.001	
263173	1336	<0.001	
263174	1337	<0.001	
263175	1338	<0.001	
263176	1339	0.001	
263176	1339	<0.001	Check

LF-30

Per: [signature]

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26185

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 14 19 89

Work Order # : 181222
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263177	1340	<0.001	
263178	1341	0.001	
263179	1342	<0.001	
263180	1343	<0.001	
263181	1344	0.001	
263182	1345	0.002	
263183	1346	<0.001	
263184	1347	<0.001	
263185	1348	<0.001	
263185	1348	<0.001	Check
263186	1349	<0.001	
263187	1350	<0.001	
263188	1351	<0.001	
263189	1352	<0.001	
263190	1353	<0.001	
263191	1354	<0.001	
263192	1355	<0.001	
263193	1356	<0.001	
263194	1357	<0.001	
263194	1357	<0.001	Check
263195	1358	<0.001	
263196	1359	<0.001	
263197	1360	<0.001	
263198	1361	<0.001	
263199	1362	0.002	
263200	1363	<0.001	
263201	1364	<0.001	
263202	1365	<0.001	
263203	1366	<0.001	
263203	1366	<0.001	Check
263204	1367	<0.001	

Per: [signature]

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26186

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 14 19 89

Work Order # : 18123
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263205	1368	<0.001	
263206	1369	<0.001	
263207	1370	<0.001	
263208	1371	<0.001	
263209	1372	<0.001	
263210	1373	<0.001	
263211	1374	<0.001	
263212	1375	<0.001	
263212	1375	<0.001	Check
263213	1376	<0.001	
263214	1377	<0.001	
263215	1378	<0.001	
263216	1379	<0.001	
263217	1380	<0.001	
263218	1381	<0.001	
263219	1382	<0.001	
263220	1383	<0.001	
263221	1384	<0.001	
263221	1384	<0.001	Check
263222	1385	<0.001	
263223	1386	<0.001	
263224	1387	<0.001	
263225	1388	<0.001	
263226	1389	<0.001	
263227	1390	<0.001	
263228	1391	<0.001	
263229	1392	<0.001	
263230	1393	<0.001	
263230	1393	<0.001	Check
263231	1394	<0.001	
263232	1395	0.001	

LF-30

Per: Blaine Vuntch

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26187

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 14 19 89

Work Order # : 181232
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263233	1396	0.001	
263234	1397	<0.001	
263235	1398	0.001	
263236	1399	0.001	
263237	1400	<0.001	
263238	1401	<0.001	
263239	1402	<0.001	
263239	1402	<0.001	Check
263240	1403	<0.001	
263241	1404	0.001	
263242	1405	0.019	
263243	1406	0.005	
263244	1407	0.030	
263245	1408	0.003	
263246	1409	0.002	
263247	1410	0.009	
263248	1411	<0.001	
263248	1411	<0.001	Check
263249	1412	<0.001	
263250	1413	<0.001	
263251	1414	0.002	
263252	1415	0.004	
263253	1416	0.002	
263254	1417	0.002	
263255	1418	0.005	
263256	1419	0.003	
263257	1420	0.004	
263257	1420	0.003	Check
263258	1421	<0.001	
263259	1422	<0.001	
263260	1423	<0.001	

Per: Blanca Kutch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26188

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 14 19 89

Work Order # : 181232
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263261	1424	0.010	
263262	1425	0.006	
263263	1426	0.027	
263264	1427	0.001	
263265	1428	0.001	
263266	1429	<0.001	
263266	1429	<0.001	Check

Per: Blaine Veitch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26225

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 16 19 89

Work Order # : 181736
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263368	1430	<0.001	
263369	1431	<0.001	
263370	1432	0.001	
263371	1433	0.001	
263372	1434	0.001	
263373	1435	<0.001	
263374	1436	0.001	
263375	1437	0.001	
263376	1438	0.012	
263377	1439	0.002	
263377	1439	0.002	Check
263378	1440	<0.001	
263379	1441	<0.001	
263380	1442	<0.001	
263381	1443	0.001	
263382	1444	0.007	
263383	1445	0.001	
263384	1446	<0.001	
263385	1447	0.001	
263386	1448	<0.001	
263386	1448	<0.001	Check
263387	1449	0.001	
263388	1450	0.001	
263389	1451	<0.001	
263390	1452	<0.001	
263391	1453	<0.001	
263392	1454	0.001	
263393	1455	<0.001	
263394	1456	<0.001	
263395	1457	<0.001	
263395	1457	<0.001	Check

LF-30

Per: Sonja Bonnachok

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26226

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 16 19 89

Work Order # : 181236
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263396	1458	<0.001	
263397	1459	0.001	
263398	1460	0.004	
263399	1461	0.001	
263400	1462	0.004	
263401	1463	0.001	
263402	1464	<0.001	
263403	1465	<0.001	
263404	1466	0.001	
263404	1466	0.001	Check
263405	1467	<0.001	
263406	1468	0.003	
263407	1469	Result to be forwarded	
263408	1470	0.001	
263409	1471	<0.001	
263410	1472	<0.001	
263411	1473	<0.001	
263412	1474	<0.001	
263413	1475	<0.001	
263413	1475	<0.001	Check
263414	1476	<0.001	
263415	1477	<0.001	
263416	1478	<0.001	
263417	1479	<0.001	
263418	1480	<0.001	
263419	1481	0.004	
263420	1482	0.002	
263421	1483	<0.001	
263422	1484	<0.001	
263422	1484	<0.001	Check
263423	1485	<0.001	

LF-30

Per: Sonja Cernochek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26227

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 16 19 89

Work Order # : 1B1236
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263424	1486	<0.001	
263425	1487	<0.001	
263426	1488	<0.001	
263427	1489	<0.001	
263428	1490	<0.001	
263429	1491	0.002	
263430	1492	<0.001	
263431	1493	<0.001	
263431	1493	<0.001	Check
263432	1494	<0.001	
263433	1495	<0.001	
263434	1496	<0.001	
263435	1497	<0.001	
263436	1498	<0.001	
263437	1499	<0.001	
263438	1500	<0.001	
263439	1501	<0.001	
263440	1502	<0.001	
263440	1502	<0.001	Check
263441	1503	<0.001	
263442	1504	<0.001	
263443	1505	<0.001	
263444	1506	<0.001	
263445	1507	<0.001	
263446	1508	<0.001	
263447	1509	<0.001	
263448	1510	<0.001	
263449	1511	<0.001	
263449	1511	<0.001	Check
263450	1512	<0.001	
263450	1512	<0.001	Check

LF-30

Per: Sonja Rewiachok

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26287

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 89

Work Order # : 181239
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263590	1513	0.002	
263591	1514	0.008	
263592	1515	0.001	
263593	1516	0.002	
263594	1517	<0.001	
263595	1518	0.003	
263596	1519	<0.001	
263597	1520	0.001	
263598	1521	<0.001	
263599	1522	0.001	
263599	1522	0.001	Check
263600	1523	<0.001	
263601	1524	0.001	
263602	1525	0.001	
263603	1526	<0.001	
263604	1527	0.001	
263605	1528	<0.001	
263606	1529	<0.001	
263607	1530	0.001	
263608	1531	0.001	
263608	1531	0.001	Check
263609	1532	0.003	
263610	1533	0.001	
263611	1534	0.001	
263612	1535	<0.001	
263613	1536	<0.001	
263614	1537	<0.001	
263615	1538	<0.001	
263616	1539	<0.001	
263617	1540	<0.001	
263617	1540	0.001	Check

Per: [signature]

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26288

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 89

Work Order # : IB1239
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263618	1541	0.001	
263619	1542	0.002	
263620	1543	0.001	
263621	1544	0.001	
263622	1545	0.001	
263623	1546	0.001	
263624	1547	0.001	
263625	1548	0.001	
263626	1549	0.001	
263626	1549	0.001	Check
263627	1550	0.017	
263628	1551	0.003	
263629	1552	0.006	
263630	1553	0.009	
263631	1554	0.001	
263632	1555	0.001	
263633	1556	<0.001	
263634	1557	0.003	
263635	1558	0.003	
263635	1558	0.001	Check
263636	1559	0.001	
263637	1560	0.001	
263638	1561	0.001	
263639	1562	<0.001	
263640	1563	<0.001	
263641	1564	<0.001	
263642	1565	<0.001	
263643	1566	<0.001	
263644	1567	<0.001	
263644	1567	<0.001	Check
263645	1568	0.001	

Per: Blaine Vasich

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26289

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 83

Work Order # : 181239
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263646	1569	0.002	
263647	1570	0.001	
263648	1571	<0.001	
263649	1572	<0.001	
263650	1573	<0.001	
263651	1574	0.008	
263652	1575	<0.001	
263653	1576	<0.001	
263653	1576	<0.001	Check
263654	1577	<0.001	
263655	1578	<0.001	
263656	1579	0.003	
263657	1580	0.002	
263658	1581	0.001	
263659	1582	<0.001	
263660	1583	0.001	
263661	1584	<0.001	
263662	1585	0.002	
263662	1585	0.001	Check
263663	1586	0.001	
263664	1587	<0.001	
263665	1588	<0.001	
263666	1589	0.008	
263667	1590	<0.001	
263668	1591	<0.001	
263669	1592	<0.001	
263670	1593	<0.001	
263671	1594	<0.001	
263671	1594	<0.001	Check
263672	1595	<0.001	
263673	1596	<0.001	

Per: Blaine Veitch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26290

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 89

Work Order # : 181[illegible]
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263674	1597	<0.001	
263675	1598	<0.001	
263676	1599	<0.001	
263677	1600	<0.001	
263678	1601	0.001	
263679	1602	<0.001	
263680	1603	Result to be forwarded	
263680	1603	Result to be forwarded	Check
263681	1604	0.001	
263682	1605	0.001	
263683	1606	0.001	
263684	1607	<0.001	
263685	1608	<0.001	
263686	1609	0.003	
263687	1610	0.001	
263688	1611	0.002	
263689	1612	0.010	
263689	1612	0.011	Check
263690	1613	0.245	
263691	1614	0.001	
263692	1615	0.003	
263693	1616	0.002	
263694	1617	0.002	
263695	1618	0.003	
263696	1619	0.001	
263697	1620	<0.001	
263698	1621	<0.001	
263698	1621	0.001	Check
263699	1622	0.001	
263700	1623	0.001	
263701	1624	0.001	

Per: Blaine Welch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26291

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 89

Work Order # : 181239
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263702	1625	0.001	
263703	1626	0.002	
263704	1627	0.001	
263705	1628	0.001	
263706	1629	0.001	
263707	1630	<0.001	
263707	1630	<0.001	Check
263708	1631	<0.001	
263709	1632	0.001	
263710	1633	<0.001	
263711	1634	<0.001	
263712	1635	<0.001	
263713	1636	<0.001	
263714	1637	0.001	
263715	1638	0.002	
263716	1639	<0.001	
263716	1639	<0.001	Check
263717	1640	<0.001	
263718	1641	<0.001	
263719	1642	0.003	
263720	1643	0.001	
263721	1644	<0.001	
263722	1645	0.006	
263723	1646	0.001	
263724	1647	0.001	
263725	1648	0.003	
263725	1648	0.002	Check
263726	1649	0.001	
263727	1650	0.001	
263728	1651	0.003	
263729	1652	0.004	

Per: Blaine Kutch

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26292

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 29 19 89

Work Order # : 181229
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
263730	1653	0.001	
263731	1654	0.002	
263732	1655	0.001	
263733	1656	0.001	
263734	1657	0.002	
263734	1657	0.005	Check
263735	1658	0.001	
263736	1659	0.001	
263737	1660	<0.001	
263738	1661	0.001	
263739	1662	<0.001	
263740	1663	<0.001	
263741	1664	<0.001	
263742	1665	<0.001	
263743	1666	<0.001	
263743	1666	<0.001	Check
263744	1667	<0.001	
263745	1668	<0.001	
263746	1669	<0.001	
263747	1670	<0.001	
263748	1671	<0.001	
263748	1671	<0.001	Check

LF-30

Per: Blaine Veitch

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26305

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 30 19 89

Work Order # : 181243
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264195	1672	0.001	
264196	1673	0.001	
264197	1674	<0.001	
264198	1675	<0.001	
264199	1676	<0.001	
264200	1677	0.001	
264201	1678	<0.001	
264202	1679	<0.001	
264203	1680	0.001	
264204	1681	0.001	
264204	1681	0.001	Check
264205	1682	0.001	
264206	1683	0.001	
264207	1684	0.001	
264208	1685	0.002	
264209	1686	0.001	
264210	1687	<0.001	
264211	1688	<0.001	
264212	1689	0.001	
264213	1690	0.001	
264213	1690	<0.001	Check
264214	1691	<0.001	
264215	1692	0.001	
264216	1693	<0.001	
264217	1694	0.001	
264218	1695	<0.001	
264219	1696	<0.001	
264220	1697	<0.001	
264221	1698	0.002	
264222	1699	0.001	
264222	1699	<0.001	Check

LF-30

Per: Sonja Berrocheke

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26306

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 30 19 89

Work Order # : 181243
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264223	1700	<0.001	
264224	1701	0.001	
264225	1702	0.002	
264226	1703	<0.001	
264227	1704	0.001	
264228	1705	<0.001	
264229	1706	<0.001	
264230	1707	0.001	
264231	1708	<0.001	
264231	1708	<0.001	Check
264232	1709	<0.001	
264233	1710	<0.001	
264234	1711	<0.001	
264235	1712	0.001	
264236	1713	<0.001	
264237	1714	<0.001	
264238	1715	<0.001	
264239	1716	<0.001	
264240	1717	<0.001	
264240	1717	0.001	Check
264241	1718	0.001	
264242	1719	0.001	
264243	1720	<0.001	
264244	1721	<0.001	
264245	1722	<0.001	
264246	1723	0.001	
264247	1724	0.001	
264248	1725	<0.001	
264249	1726	<0.001	
264249	1726	0.001	Check
264250	1727	0.001	

Per: Sonja Bernacchi

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26307

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 30 19 89

Work Order # : 181243
Project :

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264251	1728	<0.001	
264252	1729	<0.001	
264253	1730	<0.001	
264254	1731	<0.001	
264255	1732	<0.001	
264256	1733	<0.001	
264257	1734	<0.001	
264258	1735	<0.001	
264258	1735	<0.001	Check
264259	1736	<0.001	
264260	1737	<0.001	
264261	1738	<0.001	
264262	1739	<0.001	
264263	1740	<0.001	
264264	1741	0.001	
264265	1742	<0.001	
264266	1743	<0.001	
264267	1744	<0.001	
264267	1744	<0.001	Check
264268	1745	0.001	
264269	1746	0.001	
264270	1747	0.001	
264271	1748	<0.001	
264272	1749	<0.001	
264273	1750	<0.001	
264274	1751	<0.001	
264275	1752	<0.001	
264276	1753	<0.001	
264276	1753	<0.001	Check
264277	1754	0.002	
264278	1755	<0.001	

LF-30

Per: Sonja Berlochak

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J6
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26312

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 31 19 89

Work Order # : 181244
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264279	1756	0.001	
264280	1757	0.001	
264281	1758	<0.001	
264282	1759	<0.001	
264283	1760	<0.001	
264284	1761	<0.001	
264285	1762	0.001	
264286	1763	<0.001	
264287	1764	0.008	
264288	1765	<0.001	
264288	1765	<0.001	Check
264289	1766	<0.001	
264290	1767	<0.001	
264291	1768	<0.001	
264292	1769	<0.001	
264293	1770	<0.001	
264294	1771	<0.001	
264295	1772	<0.001	
264296	1773	<0.001	
264297	1774	<0.001	
264297	1774	0.001	Check
264298	1775	<0.001	
264299	1776	0.001	
264300	1777	<0.001	
264301	1778	<0.001	
264302	1779	<0.001	
264303	1780	<0.001	
264304	1781	<0.001	
264305	1782	0.001	
264306	1783	0.001	
264306	1783	0.001	Check

LF-30

Per: Sonja Cerocchi

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J6
TEL.: (705) 567-6343

Président: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26313

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 31 19 89

Work Order # : 181244
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264307	1784	<0.001	
264308	1785	<0.001	
264309	1786	<0.001	
264310	1787	<0.001	
264311	1788	<0.001	
264312	1789	0.003	
264313	1790	0.002	
264314	1791	0.001	
264315	1792	0.002	
264315	1792	0.002	Check
264316	1793	<0.001	
264317	1794	0.001	
264318	1795	<0.001	
264319	1796	<0.001	
264320	1797	<0.001	
264321	1798	<0.001	
264322	1799	<0.001	
264323	1800	<0.001	
264324	1801	<0.001	
264324	1801	<0.001	Check
264325	1802	<0.001	
264326	1803	<0.001	
264327	1804	<0.001	
264328	1805	<0.001	
264329	1806	<0.001	
264330	1807	<0.001	
264331	1808	<0.001	
264332	1809	<0.001	
264333	1810	0.001	
264333	1810	0.001	Check
264334	1811	<0.001	

LF-30

Per: Sonja Bernardelli

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26314

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 31 19 83

Work Order # : 181244
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264335	1812	<0.001	
264336	1813	0.001	
264337	1814	<0.001	
264338	1815	0.002	
264339	1816	<0.001	
264340	1817	0.003	
264341	1818	<0.001	
264342	1819	<0.001	
264342	1819	<0.001	Check
264343	1820	<0.001	
264344	1821	<0.001	
264345	1822	<0.001	
264346	1823	<0.001	
264347	1824	<0.001	
264348	1825	<0.001	
264349	1826	<0.001	
264350	1827	0.001	
264351	1828	<0.001	
264351	1828	<0.001	Check
264352	1829	<0.001	
264353	1830	<0.001	
264354	1831	<0.001	
264355	1832	<0.001	
264355	1832	<0.001	Check

LF-30

Per: Sonja Kaminski

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26326

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 4 19 83

Work Order # : 181247
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264773	1833	0.001	
264774	1834	<0.001	
264775	1835	<0.001	
264776	1836	0.001	
264777	1837	0.001	
264778	1838	0.001	
264779	1839	<0.001	
264780	1840	0.001	
264781	1841	0.002	
264782	1842	0.005	
264782	1842	0.010	Check
264783	1843	0.001	
264784	1844	<0.001	
264785	1845	0.001	
264786	1846	<0.001	
264787	1847	<0.001	
264788	1848	0.001	
264789	1849	0.001	
264790	1850	<0.001	
264791	1851	<0.001	
264791	1851	0.001	Check
264792	1852	0.001	
264793	1853	<0.001	
264794	1854	<0.001	
264795	1855	<0.001	
264796	1856	<0.001	
264797	1857	<0.001	
264798	1858	<0.001	
264799	1859	<0.001	
264800	1860	<0.001	
264800	1860	<0.001	Check

Per:

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26327 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 4 19 89

Work Order # : 181247
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264801	1861	<0.001	
264802	1862	<0.001	
264803	1863	0.001	
264804	1864	<0.001	
264805	1865	<0.001	
264806	1866	<0.001	
264807	1867	<0.001	
264808	1868	0.001	
264809	1869	<0.001	
264809	1869	<0.001	Check
264810	1870	<0.001	
264811	1871	<0.001	
264812	1872	<0.001	
264813	1873	<0.001	
264814	1874	<0.001	
264815	1875	<0.001	
264816	1876	<0.001	
264817	1877	<0.001	
264818	1878	<0.001	
264818	1878	<0.001	Check
264819	1879	<0.001	
264820	1880	<0.001	
264821	1881	<0.001	
264822	1882	<0.001	
264823	1883	<0.001	
264824	1884	<0.001	
264825	1885	<0.001	
264826	1886	<0.001	
264827	1887	0.001	
264827	1887	<0.001	Check
264828	1888	<0.001	

Per:

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26328 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 4 19 89

Work Order # : 181247
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264829	1889	<0.001	
264830	1890	<0.001	
264831	1891	<0.001	
264832	1892	0.002	
264833	1893	<0.001	
264834	1894	<0.001	
264835	1895	0.001	
264836	1896	0.001	
264836	1896	0.001	Check
264837	1897	0.001	
264838	1898	0.001	
264839	1899	<0.001	
264840	1900	<0.001	
264841	1901	<0.001	
264842	1902	0.001	
264843	1903	0.001	
264844	1904	<0.001	
264845	1905	<0.001	
264845	1905	0.001	Check
264846	1906	0.004	
264847	1907	0.002	
264848	1908	0.006	
264849	1909	<0.001	
264850	1910	0.001	
264851	1911	0.001	
264852	1912	<0.001	
264853	1913	0.002	
264854	1914	0.001	
264854	1914	0.001	Check
264855	1915	<0.001	
264856	1916	0.003	

LF-30

Per: Larry Lawrence

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. b., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26329 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E8

Date: April 4 19 89

Work Order # : 181247
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
264857	1917	0.001	
264858	1918	<0.001	
264859	1919	0.001	
264860	1920	0.002	
264861	1921	<0.001	
264862	1922	0.001	
264863	1923	0.001	
264863	1923	0.001	Check
264864	1924	0.001	
264865	1925	<0.001	
264865	1925	<0.001	Check

LF-30

Per:

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26358

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181249
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265088	501	0.001	
265089	502	0.001	
265090	503	0.006	
265091	504	0.001	
265092	505	0.002	
265093	506	<0.001	
265094	507	<0.001	
265095	508	<0.001	
265096	509	<0.001	
265097	510	<0.001	
265097	510	<0.001	Check
265098	511	<0.001	
265099	512	<0.001	
265100	513	<0.001	
265101	514	<0.001	
265102	515	<0.001	
265103	516	<0.001	
265104	517	<0.001	
265105	518	0.001	
265106	519	<0.001	
265106	519	<0.001	Check
265107	520	<0.001	
265108	521	0.001	
265109	522	0.001	
265110	523	0.001	
265111	524	0.001	
265112	525	<0.001	
265113	1926	<0.001	
265114	1927	<0.001	
265115	1928	<0.001	
265115	1928	0.001	Check

Per: Sonja Germaschek

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. b., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26359

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181249
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265116	1929	<0.001	
265117	1930	<0.001	
265118	1931	<0.001	
265119	1932	<0.001	
265120	1933	0.001	
265121	1934	0.002	
265122	1935	0.002	
265123	1936	0.001	
265124	1937	0.001	
265124	1937	0.001	Check
265125	1938	<0.001	
265126	1939	<0.001	
265127	1940	<0.001	
265128	1941	<0.001	
265129	1942	<0.001	
265130	1943	<0.001	
265131	1944	0.001	
265132	1945	0.001	
265133	1946	<0.001	
265133	1946	0.001	Check
265134	1947	0.001	
265135	1948	0.001	
265136	1949	0.001	
265137	1950	<0.001	
265138	1951	0.001	
265139	1952	<0.001	
265140	1953	0.001	
265141	1954	<0.001	
265142	1955	0.001	
265142	1955	0.001	Check
265143	1956	0.001	

LF-30

Per: Sonja Remischek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (706) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26360

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181249
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265144	1957	0.001	
265145	1958	0.001	
265146	1959	<0.001	
265147	1960	<0.001	
265148	1961	0.001	
265149	1962	<0.001	
265150	1963	<0.001	
265151	1964	<0.001	
265151	1964	<0.001	Check
265152	1965	<0.001	
265153	1966	0.001	
265154	1967	<0.001	
265155	1968	0.001	
265156	1969	<0.001	
265157	1970	<0.001	
265158	1971	<0.001	
265159	1972	<0.001	
265160	1973	<0.001	
265160	1973	0.001	Check
265161	1974	<0.001	
265162	1975	0.001	
265163	1976	<0.001	
265164	1977	<0.001	
265165	1978	<0.001	
265166	1979	0.001	
265167	1980	<0.001	
265168	1981	<0.001	
265169	1982	<0.001	
265169	1982	<0.001	Check
265170	1983	<0.001	
265171	1984	<0.001	

Per: Sonja Kovacevic

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26361 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181249
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265172	1985	<0.001	
265173	1986	<0.001	
265174	1987	<0.001	
265175	1988	0.001	
265176	1989	0.001	
265177	1990	0.001	
265178	1991	<0.001	
265178	1991	<0.001	Check
265179	1992	<0.001	
265180	1993	<0.001	
265181	1994	<0.001	
265182	1995	<0.001	
265183	1996	0.001	
265184	1997	<0.001	
265185	1998	0.001	
265186	1999	0.001	
265187	2000	<0.001	
265187	2000	<0.001	Check

F-30

Per: Sonja Biniachek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D.; C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26362 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181250
Project : cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265199	526	0.002	
265200	527	0.001	
265201	528	<0.001	
265202	529	<0.001	
265203	530	<0.001	
265204	531	<0.001	
265205	532	<0.001	
265206	533	<0.001	
265207	534	0.001	
265208	535	0.001	
265208	535	0.001	Check
265209	536	0.001	
265210	537	0.001	
265211	538	0.001	
265212	539	<0.001	
265213	540	0.002	
265214	541	<0.001	
265215	542	0.001	
265216	543	0.001	
265217	544	<0.001	
265217	544	0.002	Check
265218	545	0.001	
265219	546	0.001	
265220	547	0.002	
265221	548	0.001	
265222	549	0.001	
265223	550	<0.001	
265224	551	0.001	
265225	552	0.001	
265226	553	0.001	
265226	553	0.001	Check

Per: Sonia Borsochek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26363

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 7 19 89

Work Order # : 181250
Project : cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265227	554	0.001	
265228	555	0.003	
265229	556	0.001	
265230	557	0.001	
265231	558	<0.001	
265232	559	<0.001	
265233	560	0.003	
265234	561	0.001	
265235	562	0.001	
265235	562	0.001	Check
265236	563	0.002	
265237	564	0.001	
265238	565	0.002	
265239	566	0.001	
265240	567	<0.001	
265241	568	0.001	
265242	569	<0.001	
265243	570	<0.001	
265244	571	0.001	
265244	571	<0.001	Check
265245	572	<0.001	
265246	573	<0.001	
265247	574	0.003	
265248	575	<0.001	
265248	575	<0.001	Check

Per: Sonja Remiorchok

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26368 Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 10 19 89

Work Order # : 181252
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265430	576	<0.001	
265431	577	0.001	
265432	578	<0.001	
265433	579	<0.001	
265434	580	<0.001	
265435	581	<0.001	
265436	582	<0.001	
265437	583	<0.001	
265438	584	<0.001	
265439	585	0.001	
265439	585	<0.001	Check
265440	586	<0.001	
265441	587	<0.001	
265442	588	<0.001	
265443	589	<0.001	
265444	590	<0.001	
265445	591	<0.001	
265446	592	<0.001	
265447	593	0.001	
265448	594	<0.001	
265448	594	<0.001	Check
265449	595	<0.001	
265450	596	<0.001	
265451	597	<0.001	
265452	598	<0.001	
265453	599	0.001	
265454	600	<0.001	
265455	601	0.001	
265456	602	0.001	
265457	603	<0.001	
265457	603	<0.001	Check

LF:30

Per: Sonja Benischek

ORIGINAL

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J6
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26369

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 10 19 89

Work Order # : 181252
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265458	604	0.001	
265459	605	0.001	
265460	606	0.013	
265461	607	0.003	
265462	608	0.002	
265463	609	0.001	
265464	610	0.001	
265465	611	0.002	
265466	612	0.009	
265466	612	0.012	Check
265467	613	0.002	
265468	614	0.002	
265469	615	<0.001	
265470	616	<0.001	
265471	617	<0.001	
265472	618	<0.001	
265473	619	<0.001	
265474	620	<0.001	
265475	621	<0.001	
265475	621	<0.001	Check
265476	622	<0.001	
265477	623	0.001	
265478	624	0.001	
265479	625	<0.001	
265480	626	<0.001	
265481	627	0.001	
265482	628	<0.001	
265483	629	0.001	
265484	630	<0.001	
265484	630	<0.001	Check
265485	631	<0.001	

LF.30

Per: Sonja Bemiachuk

ORIGINAL

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26370

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 10 19 89

Work Order # : 181252
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265486	632	<0.001	
265487	633	0.001	
265488	634	<0.001	
265489	635	<0.001	
265490	636	<0.001	
265491	637	0.002	
265492	638	<0.001	
265493	639	<0.001	
265493	639	<0.001	Check
265494	640	<0.001	
265495	641	<0.001	
265496	642	<0.001	
265497	643	<0.001	
265498	644	0.001	
265499	645	<0.001	
265500	646	0.001	
265501	647	0.001	
265502	648	<0.001	
265502	648	<0.001	Check
265503	649	0.001	
265504	650	0.001	
265505	651	<0.001	
265506	652	0.001	
265506	652	0.001	Check

Per: Sonja Beniuchek

LF-30

ORIGINAL

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26383

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : 181254
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265725	653	0.029	
265726	654	0.011	
265727	655	0.003	
265728	656	0.003	
265729	657	0.007	
265730	658	0.002	
265731	659	<0.001	
265732	660	<0.001	
265733	661	<0.001	
265734	662	0.001	
265734	662	0.001	Check
265735	663	0.001	
265736	664	0.001	
265737	665	0.001	
265738	666	0.007	
265739	667	0.010	
265740	668	0.001	
265741	669	0.007	
265742	670	0.001	
265743	671	0.001	
265743	671	0.001	Check
265744	672	0.002	
265745	673	0.003	
265746	674	0.001	
265747	675	0.001	
265748	676	0.001	
265749	677	<0.001	
265750	678	<0.001	
265751	679	<0.001	
265752	680	0.001	
265752	680	0.001	Check

LF-30

Per: Sonya Denoncheli

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26384

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : 181254
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265753	681	<0.001	
265754	682	0.001	
265755	683	<0.001	
265756	684	<0.001	
265757	685	0.002	
265758	686	0.001	
265759	687	0.001	
265760	688	0.001	
265761	689	<0.001	
265761	689	0.001	Check
265762	690	0.001	
265763	691	<0.001	
265764	692	0.001	
265765	693	0.002	
265766	694	0.003	
265767	695	0.001	
265768	696	0.001	
265769	697	0.001	
265770	698	0.002	
265770	698	0.004	Check
265771	699	0.001	
265772	700	0.001	
265773	701	<0.001	
265774	702	<0.001	
265775	703	<0.001	
265776	704	<0.001	
265777	705	<0.001	
265778	706	<0.001	
265779	707	<0.001	
265779	707	<0.001	Check
265780	708	<0.001	

LF-30

Per: Sonja Kowalski

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. b., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26385

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : 181254
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265781	709	<0.001	
265782	710	<0.001	
265783	711	0.002	
265784	712	<0.001	
265785	713	<0.001	
265786	714	0.001	
265787	715	0.001	
265788	716	<0.001	
265788	716	<0.001	Check
265789	717	<0.001	
265790	718	<0.001	
265791	719	<0.001	
265792	720	<0.001	
265793	721	<0.001	
265794	722	<0.001	
265795	723	<0.001	
265796	724	<0.001	
265797	725	<0.001	
265797	725	<0.001	Check
265798	726	0.001	
265799	727	<0.001	
265800	728	0.001	
265801	729	<0.001	
265802	730	0.001	
265803	731	<0.001	
265804	732	<0.001	
265805	733	0.001	
265806	734	<0.001	
265806	734	0.001	Check
265807	735	<0.001	
265808	736	0.001	

LF-30

Per: Sonja Bernardek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26386

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : LR1254
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265809	737	<0.001	
265810	738	<0.001	
265811	739	0.001	
265812	740	0.001	
265813	741	<0.001	
265814	742	<0.001	
265815	743	<0.001	
265815	743	<0.001	Check
265816	744	<0.001	
265817	745	<0.001	
265818	746	<0.001	
265819	747	<0.001	
265820	748	<0.001	
265821	749	0.001	
265822	750	0.001	
265823	751	<0.001	
265824	752	0.001	
265824	752	0.002	Check
265825	753	<0.001	
265826	754	0.001	
265827	755	<0.001	
265828	756	0.003	
265829	757	0.001	
265830	758	0.001	
265831	759	<0.001	
265832	760	<0.001	
265833	761	0.001	
265833	761	<0.001	Check
265834	762	0.001	
265835	763	<0.001	
265836	764	0.001	

LF-30

Per: Sonja Cernocek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26387

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : 181254
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265837	765	<0.001	
265838	766	<0.001	
265839	767	<0.001	
265840	768	<0.001	
265841	769	<0.001	
265842	770	<0.001	
265842	770	<0.001	Check
265843	771	<0.001	
265844	772	<0.001	
265845	773	<0.001	
265846	774	<0.001	
265847	775	<0.001	
265848	776	0.001	
265849	777	<0.001	
265850	778	<0.001	
265851	779	<0.001	
265851	779	0.001	Check
265852	780	<0.001	
265853	781	0.001	
265854	782	<0.001	
265855	783	0.001	
265856	784	<0.001	
265857	785	<0.001	
265858	786	<0.001	
265859	787	<0.001	
265860	788	<0.001	
265860	788	<0.001	Check
265861	789	<0.001	
265862	790	<0.001	
265863	791	<0.001	
265864	792	<0.001	

LF-30

Per: Sonja Bemrose

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26388

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 13 19 89

Work Order # : 181251
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
265865	793	<0.001	
265866	794	<0.001	
265867	795	<0.001	
265868	796	<0.001	
265869	797	<0.001	
265869	797	<0.001	Check
265870	798	<0.001	
265871	799	<0.001	
265872	800	<0.001	
265873	801	<0.001	
265874	802	<0.001	
265875	803	0.001	
265876	804	<0.001	
265877	805	<0.001	
265877	805	<0.001	Check

LF-30

Per: Sonja Bogacek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-8343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26393

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 14 19 89

Work Order # : 191256
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
266078	806	<0.001	
266079	807	<0.001	
266080	808	<0.001	
266081	809	<0.001	
266082	810	<0.001	
266083	811	<0.001	
266084	812	<0.001	
266085	813	<0.001	
266086	814	<0.001	
266087	815	<0.001	
266087	815	<0.001	Check
266088	816	<0.001	
266089	817	<0.001	
266090	818	<0.001	
266091	819	<0.001	
266092	820	<0.001	
266093	821	<0.001	
266094	822	0.001	
266095	823	0.001	
266096	824	<0.001	
266096	824	<0.001	Check
266097	825	<0.001	
266098	826	<0.001	
266099	827	<0.001	
266100	828	<0.001	
266101	829	<0.001	
266102	830	0.001	
266103	831	<0.001	
266104	832	0.002	
266105	833	0.001	
266105	833	0.001	Check

LF-30

Per: Sonja Bernacki

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chim (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26394

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 14 19 89

Work Order # : 181256
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
266106	834	<0.001	
266107	835	<0.001	
266108	836	<0.001	
266109	837	<0.001	
266110	838	<0.001	
266111	839	<0.001	
266112	840	<0.001	
266113	841	<0.001	
266113	841	<0.001	Check

LF-30

Per: Sonja Bernoski

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26403

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 18 19 89

Work Order # : 181258
Project : Cyprus Gold

SAMPLE NUMBERS Accurassay	Customer	Gold Oz/T	
266412	842	<0.001	
266413	843	<0.001	
266414	844	<0.001	
266415	845	0.002	
266416	846	<0.001	
266417	847	0.001	
266418	848	<0.001	
266419	849	<0.001	
266420	850	<0.001	
266421	851	<0.001	
266421	851	<0.001	Check
266422	852	<0.001	
266423	853	<0.001	
266424	854	<0.001	
266425	855	<0.001	
266426	856	<0.001	
266427	857	<0.001	
266428	858	<0.001	
266429	859	<0.001	
266430	860	<0.001	
266430	860	<0.001	Check
266431	861	<0.001	
266432	862	<0.001	
266433	863	<0.001	
266434	864	<0.001	
266435	865	<0.001	
266436	866	0.001	
266436	866	<0.001	Check

LF-30

Per: Sonja Bonaduk

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 804
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26255

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 21 19 89

REASSAY ON REJECT
Work Order # : 181236
Project : Cyprus Gold

SAMPLE NUMBERS		Original Assay	Reassay Result
Accurassay	Customer	Oz/T	Oz/T
263589	1468	0.003	0.008

LF-30

Per: Blaine Kutch

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26228

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 17 1989

REASSAY ON PULP
Work Order # : 181236
Project : Cyprus Gold

SAMPLE NUMBERS		Original Assay	Reassay Result
Accurassay	Customer	Oz/T	Oz/T
263407	1469	**	0.205

**result to be forwarded

Per: Sonja Pomeroy

LF-30

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26229

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 17 19 89

REASSAY ON REJECT
Work Order # : 181236
Project : Cyprus Gold

SAMPLE NUMBERS		Original Assay Oz/T	Reassay Result Oz/T
Accurassay	Customer		
263484	1469	**	0.179

**result to be forwarded

LF-30

Per: Sonja Cerovsek

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26299

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 30 19 89

REASSAY ON REJECT
Work Order # : 181239
Project : Cyprus Gold

Customer #	Original Assay Oz/T	Reassay Result Oz/T
1613	0.245	0.173

LF-30

Per: Sonja Kowalchuk

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26308

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: March 30 19 89

Work Order # : 181243
Project :

SAMPLE NUMBERS		Gold	
Accurassay	Customer	Oz/T	
264278	1755	<0.001	Check

LF-30

Per: Sonja Burnochuk

CUSTOMER COPY

ACCURASSAY LABORATORIES LTD.

P.O. BOX 604
KIRKLAND LAKE, ONTARIO, CANADA P2N 3J5
TEL.: (705) 567-6343

President: Dr. GEORGE DUNCAN, M.Sc., Ph. D., C. Chem (Ont.), C. Chem (U.K.), M.C.I.C., M.R.S.C., A.R.C.S.T.

Certificate of Analysis

26338

Murray Rogers
Black Cliff Mines Ltd.
Suite 2205, 1 Yonge Street
Toronto, Ontario
M5E 1E5

Date: April 17 19 89

RECEIVED APR 2 5 1989

ASSAY OF SELECT
Work Order # : 131254
Project : Cyprus Gold

SAMPLE NUMBERS		Original Assay	Accurassay Result
Accurassay	Customer	Oz/T	Oz/T
264162	653	0.029	0.026

LF-30

Per: Sonja Cavaccioli

CUSTOMER COPY

Ontario Ministry of Northern Development and Mines

Report of Work

DOCUMENT No. W 8902.102

Mining Act

AFRO

52L16NE0020 18 KILLALA

900

Name and Postal Address of Recorded Holder

Black Cliff Mines Ltd., Suite 1 Yonge Street, Toronto, Ontario. M5E 1E5

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 10,143

for Performance of the following work. (Check one only)

- [ ] Manual Work
- [ ] Shaft Sinking Drifting or other Lateral Work.
- [ ] Compressed Air, other Power driven or mechanical equip.
- [ ] Power Stripping
- [x] Diamond or other Core drilling
- [ ] Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
KRL	903703	163	KRL	903711	198	KRL	903719	203
	903704	183		903712	183		903720	206
	903705	183		903713	196		976955	171
	903706	183		903714	162		976956	161
	903707	188		903715	196		976957	161
	903708	183		903716	182		976958	181
	903709	193		903717	196		976963	181
	903710	163		903718	162		976964	161

All the work was performed on Mining Claim(s): 903703, 903705, 903706, 903709, 903711, 903712, 903714, 903718, 976964, 976955.

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Refer to drill program report for information. Program operator:
Cyprus Gold (Canada) Ltd.
1810 - 1055 West Hastings Street
Vancouver, B.C.
V6E 2E9

approved

RECEIVED
JUL 21 1989
RED LAKE MINING DIV.

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES OFFICE
AUG 0 1 1989
RECEIVED

Drilling dates: February 22 to April 11, 1989
Total footage: 10,143 feet (3091.6 meters)
BQ core (1 7/8 inch)
19 holes ranging from 99.7 m. to 264.2 m. in length (327.1 ft. to 866.8 ft.)
Dips varied from -45° to -50°.

Date of Report	Recorded Holder or Agent (Signature)
July 17, 1989	Murray C. Rogers

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Murray C. Rogers 203, 90 James Street, Etobicoke, Ontario. M8W 1L6

Date Certified	Certified by (Signature)
July 17, 1989	Murray C. Rogers

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Ontario
Ministry of Northern Development and Mines

Report of Work

W 8902.102

Mining Act

type of work to be recorded (see table below).
– For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder	Prospector's Licence No.
Black Cliff Mines Ltd., Suite 2205, 1 Yonge Street, Toronto, Ontario. M5E 1E5	T-4836

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	KRL	976973	195	KRL	976993	215			
☐ Manual Work		976974	205		976994	215			
☐ Shaft Sinking Drifting or other Lateral Work.		976979	205		976999	215			
☐ Compressed Air, other Power driven or mechanical equip.		976980	210		977000	215			
☐ Power Stripping		976985	195		977001	215			
☑ Diamond or other Core drilling		976986	195		977002	215			
☐ Land Survey		976991	195						
		976992	210						

All the work was performed on Mining Claim(s): Refer to first page.

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Refer to first page.

RECEIVED
JUL 21 1989

Date of Report	Recorded Holder or Agent (Signature)
July 17, 1989	Murray C. Rogers

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying	Date Certified	Certified by (Signature)
Murray C. Rogers 203, 90 James Street, Etobicoke, Ontario. M8W 1L6	July 17, 1989	Murray C. Rogers

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Ontario
Ministry of Northern Development and Mines

Report of Work

DOCUMENT NO. W 8902•102

Mining Act

type of work to be recorded (see table below).
– For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

Name and Postal Address of Recorded Holder	Prospector's Licence No.
Black Cliff Mines Ltd., Suite 2205, 1 Yonge Street, Toronto, Ontario. M5E 1E5	T-4836

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
for Performance of the following work. (Check one only)	KRL	1057167	242	KRL	1057175	242			
☐ Manual Work		1057168	242		1057176	242			
☐ Shaft Sinking Drifting or other Lateral Work.		1057169	242		1057177	242			
☐ Compressed Air, other Power driven or mechanical equip.		1057170	242		1057178	242			
☐ Power Stripping		1057171	242						
☑ Diamond or other Core drilling		1057172	242						
☐ Land Survey		1057173	242						
		1057174	242						

All the work was performed on Mining Claim(s): Refer to first page

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Refer to first page.

RECEIVED
JUL 21 1989

Date of Report	Recorded Holder or Agent (Signature)
July 17, 1989	Murray C. Rogers

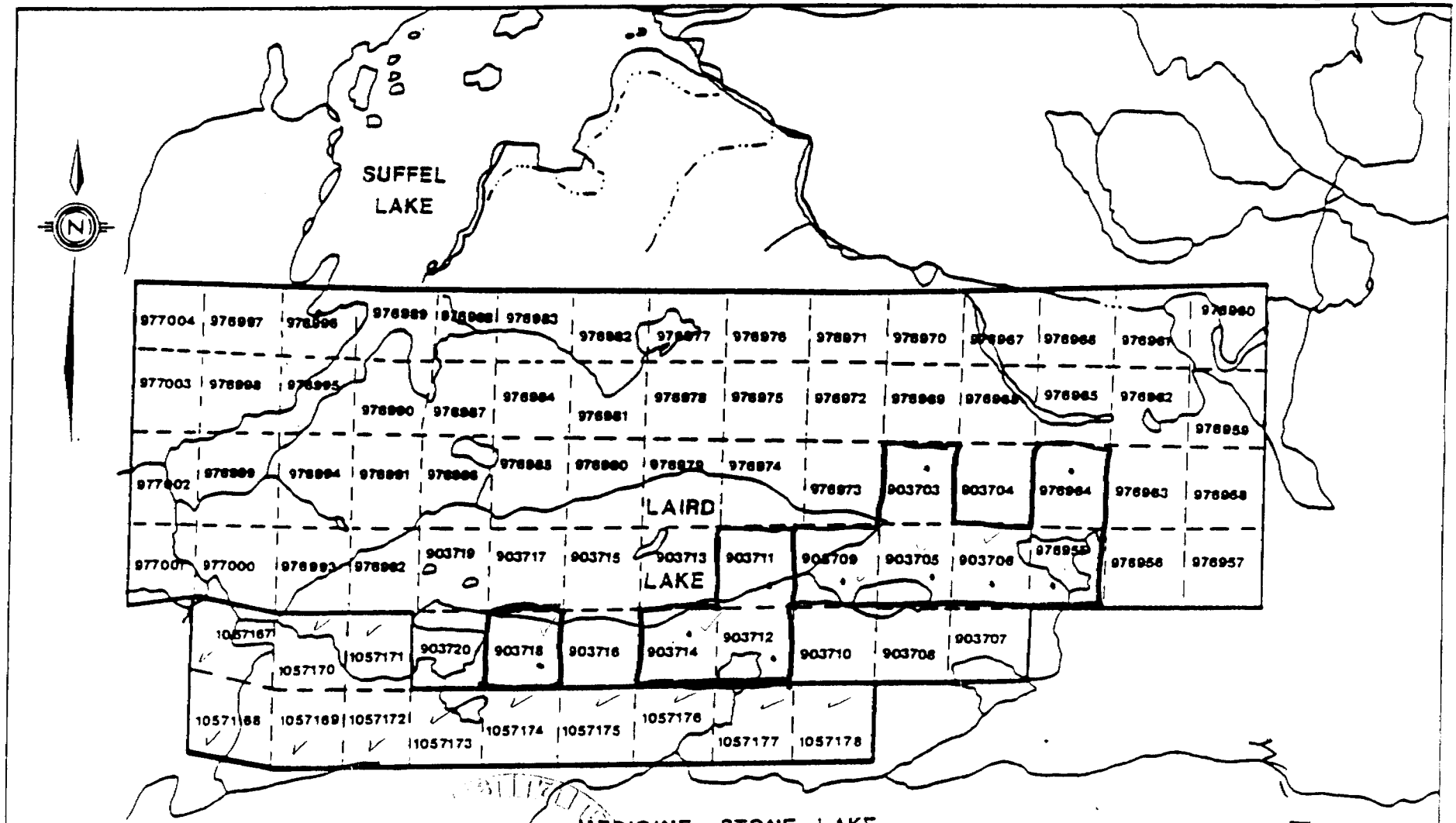
Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying	Date Certified	Certified by (Signature)
Murray C. Rogers 203, 90 James Street, Etobicoke, Ontario. M8W 1L6	July 17, 1989	Murray C. Rogers

Table of Information/Attachments Required by the Mining Recorder

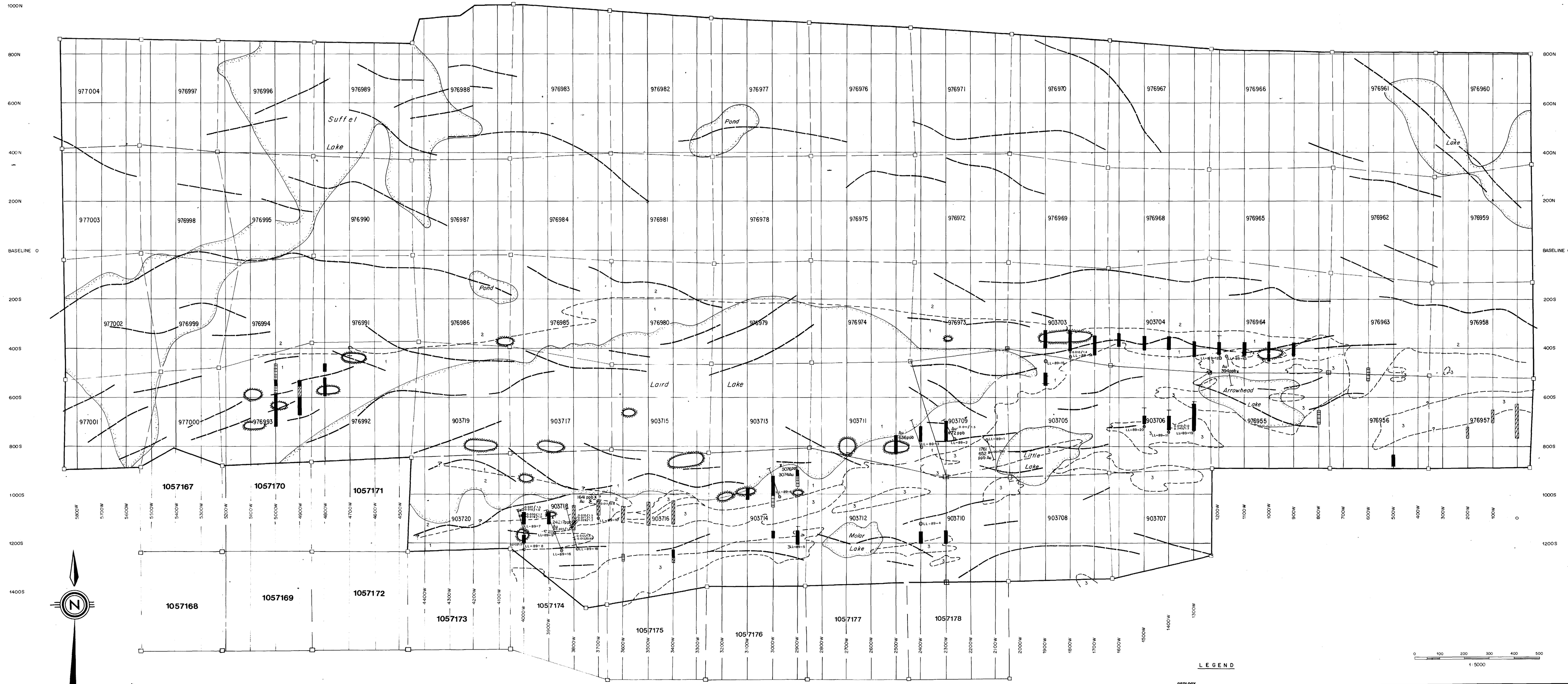
Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil



PORTION OF CLAIM MAP OF KILLALA TWP. M.2176

scale 1" = 1/2 mile

figure 2



BLACK CLIFF MINES LIMITED

LAIRD LAKE PROPERTY
KILLALA TWP., ONTARIO

COMPILATION MAP

MAPPED BY:	CHECKED BY:	DATE: NOVEMBER 1988
DRAFTED BY: m. j. dimitrijevic	SCALE: 1:5000	NTS: 52L/16