DRILL PROGRAM

LINGMAN LAKE PROJECT

NORTHWESTERN ONTARIO

NTS 53 F/15

FOR

ECHO BAY MINES LTD.

July, 1996
Thunder Bay, Ontario

D. Maclean
CLARK-EVELEIGH CONSULTING

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INTRODUCTION

In late February 1996, a camp and drill equipment were moved into Lingman Lake using a fixed wing aircraft from Red Lake and a helicopter from Sachigo Lake. The drill was brought to Sachigo Lake along the winter road from Pickle Lake (see Figure 1). A helicopter-supported 12 man crew completed the drill program.

Camp mobilization commenced February 15, 1996 and drilling started February 23, 1996. Drilling was completed on March 17, 1996 and the camp moved out by March 22, 1996.

LOCATION AND ACCESS

The Lingman Lake Project is located approximately 325 km north of Red Lake, Ontario close to the Manitoba border. The property is bounded by latitudes 53° 45'N and 53° 55'N and by longitudes 92° 40'W and 93° 15'W.

The project area is accessible via float or ski-equipped fixed-wing aircraft from Red Lake or Pickle Lake. Alternative access is provided by a winter road from Red Sucker Lake and Island Lake in northeastern Manitoba (see Figure 1).

See Figure 2 for property land holdings.

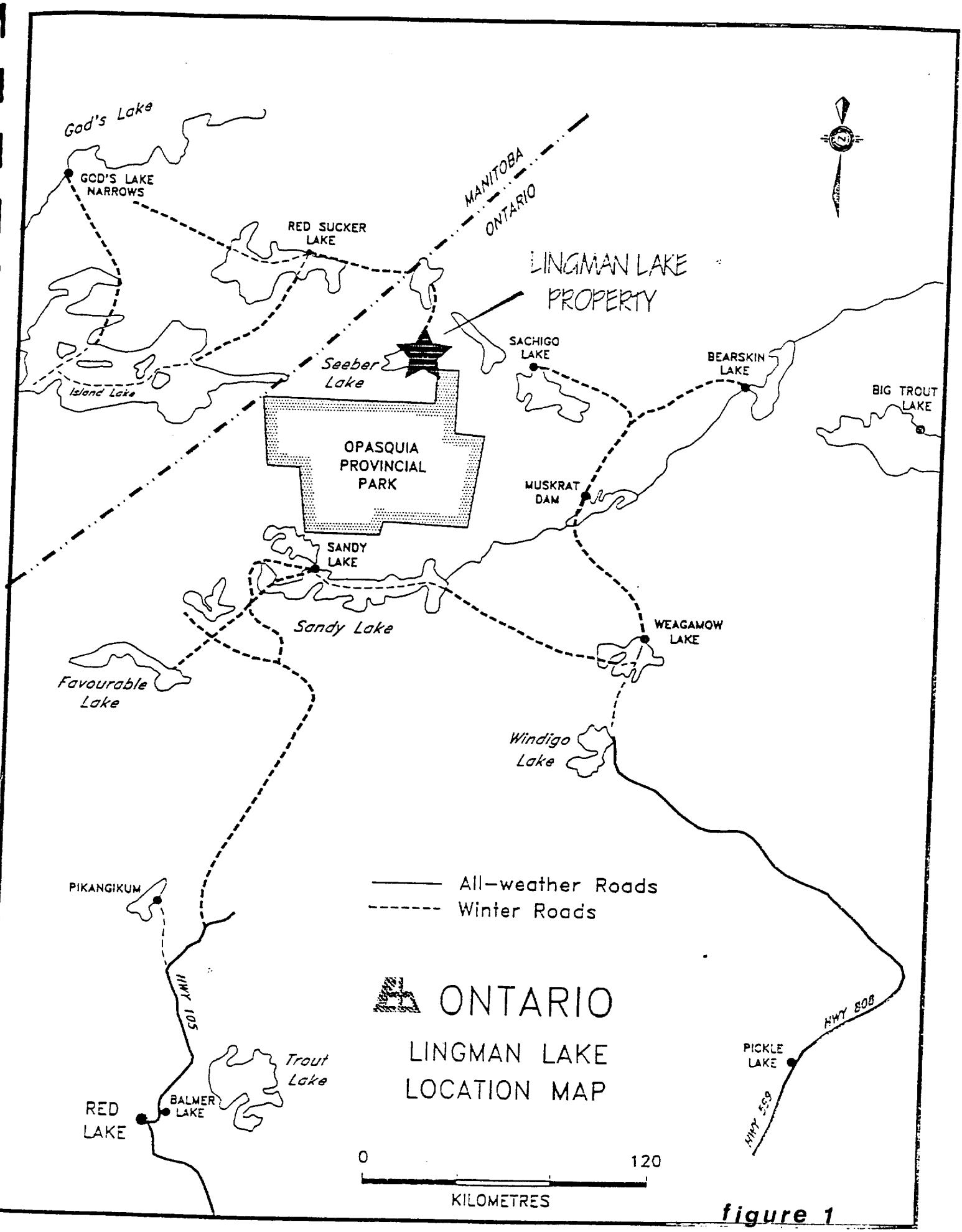
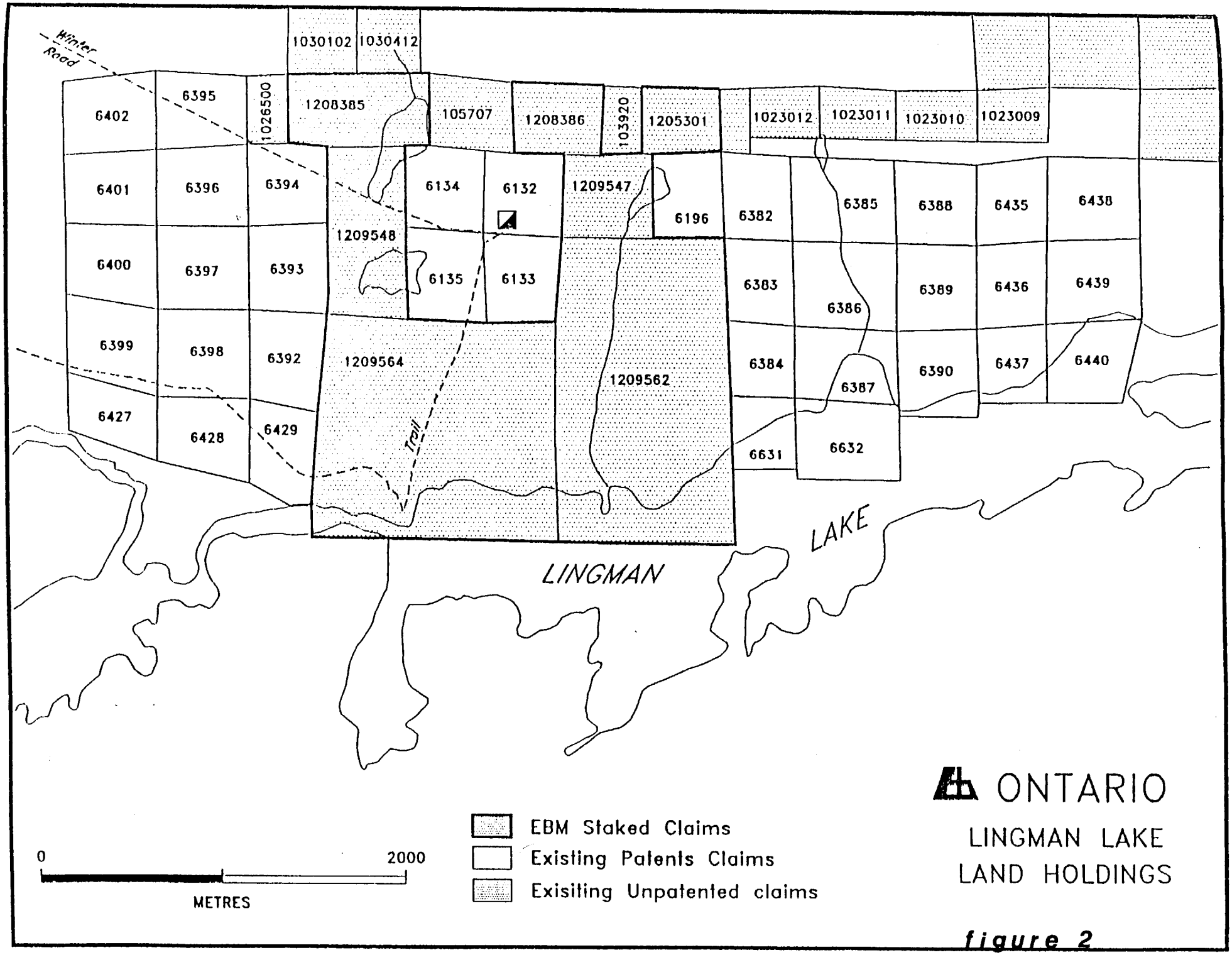

God's Lake
GOD'S LAKE NARROWS
RED SUCKER LAKE
MANITOBA
ONTARIO
LINGMAN LAKE PROPERTY
SACHIGO LAKE
BEARSKIN LAKE
BIG TROUT LAKE
Seeber Lake
Island Lake
OPASQUIA PROVINCIAL PARK
MUSKRAT DAM
SANDY LAKE
Sandy Lake
WEAGAMOW LAKE
Favourable Lake
Windigo Lake
PIKANGIKUM
All-weather Roads
Winter Roads
HWY 105
ONTARIO
LINGMAN LAKE
LOCATION MAP
Trout Lake
BALMER LAKE
RED LAKE
HWY 808
PICKLE LAKE
HWY 599
0
120
KILOMETRES

figure 1


Winter Road
1030102
1030412
6402
6395
1026500
1208385
105707
1208386
103920
1205301
1023012
1023011
1023010
1023009
6401
6396
6394
6134
6132
1209547
6196
6382
6385
6388
6435
6438
1209548
6400
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6393
6135
6133
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6389
6436
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6399
6398
6392
1209564
1209562
6384
6387
6390
6437
6440
6427
6428
6429
Trail
6631
6632
LINGMAN
LAKE
0
2000
METRES
EBM Staked Claims
Existing Patents Claims
Exisiting Unpatented claims
ONTARIO
LINGMAN LAKE
LAND HOLDINGS

figure 2

TABLE 1

Drill Hole Locations and Data

Hole Number	Northing (metres)	Easting (metres)	Dip	Length (metres)	Claim Number	Target
L96-01	3706	3075	-45°	200.0	1209548	West Zone
L96-02	3706	3075	-57°	230.0	1209548	West Zone
L96-03	3706	3075	-66°	299.0	1209548	West Zone
L96-04	3559	3079	-45°	248.0	1209548	West Zone
L96-05	3552	4268	-45°	271.5	1209547	North Zone (east side)
L96-06	3581	2804	-45°	227.0	1209548	West Zone
L96-07	2942	3201	-45°	125.0	1209564	VLF anomaly
L96-08	3292	4024	-45°	104.0	1209562	VLF anomaly and Mag Low
L96-09	3101	4039	-45°	99.0	1209562	VLF anomaly and Mag High
L96-10	3055	4200	-45°	95.0	1209562	VLF anomaly and Mag High
L96-11	2710	3598	-45°	101.0	1209562	VLF anomaly and Mag High

DRILL RESULTS

Holes L96-01,02, 03

These holes were drilled from a single setup to test the extent of gold mineralization and to determine the geometry of the western extension of the West Zone. Fine to medium grained basalts and mafic tuffs predominate. All holes ended in a glomeroporphyric mafic intrusion, previously named "leopard rock." Hole #1 intersected two alteration zones with associated sulphides (py, po, asp, cp, mo). Holes #2 and #3 intersected three alteration zones with the same associated sulphides. The best gold intersections from these holes were: 1.36 g/t Au/3.0m in hole #1, 6.27 g/t Au/1.6m in hole #2 and 6.54 g/t Au/5.6m in hole #3.

Hole L96-04

This hole drilled two units of ultramafic rock down to 50.5 metres. The rest of the hole intersected fine to medium grained mafic volcanic rock locally containing 2 to 20% pyrite plus pyrrhotite and associated minor mo, cpy and asp. Some local silicified sections were observed. The best gold intersection was 2.4 g/t Au/1.0m

Hole L96-05

This hole was drilled to test the eastern extension of the North Zone. The hole intersected predominantly fine to medium fine grained mafic volcanic rocks along with minor ultramafic unit, andesite porphyry, and a 23 metre section of quartz diorite. The hole ended in the glomeroporphyritic mafic intrusive. No significant sulphide rich or silicified sections were encountered. The best gold intersection was 4.37g/t Au/0.8m.

Hole L96-08

Hole #8 was drilled to test a VLF conductor. The hole intersected fine to medium grained mafic volcanic rock with minor graphitic sections which probably account for the VLF conductor. No significant assays were returned.

Hole L96-09

Hole #9 was drilled to test a coincident VLF conductor and magnetic high. This hole intersected fine to medium grained mafic volcanic rock and feldspar porphyritic monzonite. A considerable number of narrow quartz and quartz-carbonate sections were encountered in the lower half of the hole. The VLF conductor may be explained by a fault zone. The source of the magnetic high was not discovered. No significant results were returned.

Hole L96-10

This hole was drilled to test a coincident VLF conductor and magnetic high. Fine to medium grained mafic flows, a thin, magnetic, ultramafic unit and a porphyritic mafic flow were intersected. The magnetic high is caused by the ultramafic unit and VLF conductor may reflect a fault zone.

Hole L96-11

Hole #11 was drilled to test a coincident VLF conductor and magnetic high. Fine to coarse-grained mafic volcanic rocks, quartz diorite and minor amounts of andesite porphyry were intersected. The magnetic high is the result of zones locally containing up to 30% magnetite. The VLF conductor is likely the result of sulphide concentrations, which locally constitute up to 20% of the rock. The best gold assay returned 0.3 g/t Au over 0.9.

CONCLUSIONS

This eleven hole drill program was carried out to find possible extensions of the West and North Zones, both along strike and down dip. It also tested several previously untested coincident VLF conductors and magnetic highs.

[redacted]

[redacted] Although the structure hosting the North Zone was intersected along strike to the east, no significant alteration or gold mineralization was discovered.

A drill program is recommended to further test the strike and dip extensions of the West Zone.

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Bowen, R.P. Ore Reserves, Discounted Cash Flow and Proposed Work Report, Twin Gold Project, Agassiz Resources Inc., February 7, 1988.

McPhee, D.S. The Lingman Lake Deposit, Red Lake Mining Division, Ontario, Canada, for Twin Gold Mines Ltd., March, 1989.

Report on the Property of the Lingman Lake Gold Mines Limited, Lingman Lake District of Patricia, Ontario, February 1, 1946.

Smerchanski, M.G. Report of the property of the Lingman Lake Gold Mines Limited, Lingman Lake District of Patricia, Ontario, February 1, 1946.

Wilson, B.C. Geology of the Lingman Lake Area, District of Kenora (Patricia Portion), O.G.S. Report #244 (1987).

CERTIFICATE OF QUALIFICATIONS

I, Dave Maclean do hereby certify that:

- I reside at 176 Skyline Avenue, Thunder Bay, Ontario P7B 6K6.
- I have been in mineral exploration since 1976.
- I am a graduate of the Haileybury School of Mines (Mining Engineering Technology, 1973)
- I have not received, directly or indirectly, or expect to receive any interest in the company and its properties.

Signature: D. Maclean

Name: Dave Maclean

Date: May 21, 1997

APPENDIX I

DRILL SECTIONS

APPENDIX II

DRILL LOGS - LINGMAN LAKE PROJECT

(To accompany Compilation and Drill Program report by D. Maclean)

DRILL LOG SYMBOLS and abbreviations

CA	core axis
cm	centimeter
mm	millimetres
Qs	quartz stringers
Au	gold
ppb	parts per billion
sil	siliceous
QEP	Quartz eye porphyry
QFP	Quartz-feldspar porphyry
HBL	Hornblende

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Diamond Drill Log (Header)

Hole No.: L96-01

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-45°	Depth:(m)	Dip:	1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
Feb. 23/96	Feb. 25/96	Feb. 25/96	D. Parker	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**			
Lingman Lake	Feb. 25/96		1209548	32.0	-45°	
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core rack	3079.0E, 3706.0N (10100.0'E, 12159.0'N)	200.0	BQ	122.0	-42°	
Location:						
@ camp site @ Lingman L.				170.0	-40°	

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DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: L96-01
Collar Eastings: 3075.00
Collar Northings: 3706.00
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 200.00 metres

Logged by: D.Parker
Date: 01/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
0	4.2	Overburden (Ovb) - 20 cm of mafic flow 'pebbles' recovered					
4.20	17.80	Mafic Tuff (2g) - Dark green, fine grained weak to moderate foliation 55° CA. 5% calcite seams along irregular fractures and foliation. Minor disseminated calcite. Locally weakly magnetic. Chloritic with minor biotite locally. Lower contact gradational over 10 cm. 4.20 - 4.40; quartz vein, gray-white. Minor chlorite partings. Trace pyrite. Lower contact 50° CA 17.70 - 17.80; 80% quartz stringers along foliation 55° CA. 3% medium grained pyrite					
17.80	21.30	Mafic Flow (2k) - Dark green, fine to medium grained. Massive to weakly foliated 50° CA. 40% green 2-3 mm amphibole? crystals altered to chlorite. Contacts gradational over 10 cm. 19.55 - 19.88; 50% quartz stringers, gray-white. 30° CA, 1% fine pyrite along fractures. Trace chalcopyrite.					
21.30	51.30	Mafic Tuff (2g) - As 4.40 - 17.80 Lower contact sharp 60° CA	75000 75001	35.20 35.70	35.70 36.20	0.50 0.50	25 1430

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		25.49 - 25.54; quartz vein, gray, trace chalcopyrite, epidote, 50° CA	75002	36.20	36.70	0.50	20
			75003	40.20	41.00	0.80	215
		35.82 - 36.10; 50% quartz-carbonate-epidote stringers? 50° CA with 10% magnetite, 2-3% pyrrhotite, 1-2% pyrite and 2-3% arsenopyrite concentrated in fine grained bands along foliation.					
		38.46 - 38.72; Blocky core. Minor fault. Irregular.					
		40.35 - 40.85; Cherty interflow sediment? 2-3% fine to medium grained pyrite along fractures. Locally magnetic. Contacts 70° CA.					
		51.12 - 51.30; Siliceous, cherty, gray, massive, contacts sharp 60° CA.					
51.30	67.12	Mafic Flow (2k) - Dark green to gray green, medium to coarse grained. Massive to weakly foliated 55° CA. 50% green amphibole crystals with local size variation from 2 to 10 mm. Locally magnetic.					
		62.95 - 63.32; Cherty interflow sediment. Contacts 50° CA.					
		Lower contact sharp 50° CA.					
67.12	70.00	Mafic Tuff (2g) - As 4.40 to 17.80 Weak foliation 50° CA, 1% pyrite disseminated fine grained,	75004	67.00	68.00	1.00	30
			75005	68.00	69.00	1.00	40

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: L96-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		lower contact sharp 50° CA.	75006	69.00	70.00	1.00	10
		68.4 - 69.2; 30% quartz ankerite veins at 50° CA. Trace pyrite.					
70.00	135.25	Mafic Flow (2k) - Dark green, fine grained. Massive to weakly foliated 50° CA. Typically moderately magnetic with 2-5% fine diseeminated magnetite. Minor disseminated pyrite.	75007	70.00	71.00	1.00	40
			75008	71.00	72.00	1.00	5
			75009	72.00	72.90	0.90	490
			75010	72.90	73.80	0.90	10
		73.86 - 74.4; 90% quartz veins 80° CA. Gray-white. Minor chloritic partings.	75011	73.80	74.80	1.00	25
			75012	74.80	75.80	1.00	15
			75013	84.85	85.85	1.00	10
		75.05 - 75.39; Cherty interflow sediment? Quartz vein? 80° CA. Gray.	75014	85.85	86.85	1.00	90
			75015	86.85	87.85	1.00	10
			75016	93.70	94.70	1.00	65
		79.0 - 95.3; Local zones of rod like blue-gray mineral 1-3 mm diameter in 10% biotite matrix strongest from 87.0 to 87.80. (Note: Alteration 79.0-95.3 probably associated with QS 85.85-86.85)	75017	94.70	95.70	1.00	55
			75018	95.70	96.70	1.00	135
			75019	104.70	105.20	0.50	5
		85.85 - 86.85; Quartz stringer 1-3 cm, 0-5° CA, gray-white 1-2% pyrrhotite and 1-2% chalcopyrite along contacts and fractures.					
		94.75; 10 cm quartz vein, gray-white, minor chlorite partings. Contacts 10 and 60° CA.					
		95.20 - 96.60; 1-2% disseminated pyrrhotite and pyrite, minor chalcopyrite.					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: L96-01

FROM	TO	LITHOLOGICAL DESCRIPTION
		104.89 - 105.02; 80% quartz stringers, 50° CA, gray-white, chloritic partings minor pyrite and trace chalcopyrite. 117.5 - 135.2; 2-3% 2mm-10 cm felsic feldspar porphyritic veins and dykes at various core angles. Units are orange, massive with 10% 1-3 mm cream coloured feldspar grains. Lower contact at 135.25 Sharp 70° CA.
135.25	156.00	Mafic Tuff (2g) - Dark green. Fine grained.Weak to moderate foliation 65° CA. Very poorly compositionally layered subparallel to foliation. Chloritic with local minor biotite. Locally weakly magnetic. 137.0 - 139.55; Ultramafic flow? Talcose. Magnetic. Gray green. Fine grained. 139.55 - 139.95; Chloritic shear 70° CA. 146.70 - 147.35; Silicified with 3-5% pyrrhotite as blebs and bands along foliation, 1% arsenopyrite crystals tabular <1-4 mm, trace fine grained chalcopyrite. Local pale green mineral fuchsite? actinolite? weak fabric and contacts 75° CA. 148.25 - 151.05 - 20% discrete silicified zones 1-10 cm. 60-70° CA with minor disseminated fine pyrite and pyrrhotite.

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
75021	139.50	140.00	0.50	15
75022	144.65	145.65	1.00	2660
75023	145.65	146.65	1.00	15
75024	146.65	147.65	1.00	1410
75026	147.65	148.20	0.55	50
75027	148.20	148.80	0.60	15
75028	148.80	149.80	1.00	45
75029	149.80	150.80	1.00	50
75030	150.80	151.80	1.00	235
75031	151.80	152.40	0.60	2910
75032	152.40	153.40	1.00	5
75033	153.40	154.25	0.85	35
75034	154.25	155.25	1.00	20
75036	155.25	156.00	0.75	10

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: L96-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		151.85 - 152.30; Silicified with 2-3% pyrrhotite as blebs and stringers at 70° CA.					
		154.35 - 155.15; 90% quartz vein. Gray-white. Minor chloritic partings. 2-3% molybdenite seams 70-85° CA and disseminated. Minor fine grained pyrite and arsenopyrite disseminated. Contacts 80° CA.					
156.00	171.40	Mafic Flow (2k) - Dark green. Massive. Medium grained 2-4 mm tabular amphiboles in chloritic matrix. Very weak foliation 50° CA. Non magnetic. Minor very fine grained disseminated pyrite. Trace disseminated molybdenite. Lower contact. Gradational over 20 cm.	75037	156.00	157.00	1.00	130
			75038	157.00	158.00	1.00	15
			75039	165.50	166.50	1.00	65
			75040	166.50	167.50	1.00	280
			75041	167.50	168.50	1.00	375
			75042	168.50	169.50	1.00	215
		165.6 - 169.4; Occasional 1 mm to 1 cm quartz stringers with minor fine pyrite and molybdenite. Orange-brown ferromolybdate? stain on fractures	75043	169.50	170.50	1.00	485
171.40	176.50	Mafic Tuff (2g) - Dark green to gray green. Fine grained chloritic with local minor biotite and minor disseminated calcite. Weak to moderate foliation 60° CA. Locally moderately magnetic. Typically minor pyrite. Lower contact at vein 55° CA.	75044	170.50	171.50	1.00	15
			75045	171.50	172.00	0.50	100
			75046	172.00	172.50	0.50	210
			75047	172.50	173.00	0.50	415
			75048	173.00	173.70	0.70	30
		171.60 - 171.95; Silicified, 5-7% fine disseminated pyrite, minor very fine disseminated arsenopyrite.	75049	173.70	174.70	1.00	75
			75050	174.70	175.60	0.90	15
			75051	175.60	176.50	0.90	35
		172.5 - 173.0; Minor silicification 1-2% pyrite, 10 cm fault breccia with minor gouge at 75° CA.					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		173.75 - 174.65; 1% disseminated pyrite.					
		175.2 - 176.4; Local chloritic shears 50° CA, local minor silicification, 1% disseminated pyrite.					
		176.4 - 176.5; Quartz vein. Gray-white. Minor chloritic partings. Minor pyrite. 65° CA.					
176.50	200.00	Mafic Feldspar Porphyry (2i) - Dark green. Coarse grained. Massive to very weakly foliated 70° CA. 10% fine feldspar matrix, 75% 1-2 mm amphibole grains, 15% 2 mm to 2 cm glomeroporhyritic feldspar clusters. Non-magnetic.	75052	176.50	177.25	0.75	265
			75053	177.25	178.15	0.90	115
			75054	178.15	178.75	0.60	5
			75055	178.75	179.75	1.00	10
			75057	179.75	180.75	1.00	25
		177.35; 2 cm gray quartz stringer with minor molybdenite. 65° CA.					
		178.20 - 178.60; 90% gray quartz vein wtih 1-2% molybdenite. Minor pyrite. 60° CA					
		End of Hole (EOH)					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
32.00	-45.00	0.00

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: L96-01

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)

DEPTH	INCLINATION	BEARING
77.00	-43.50	0.00
122.00	-42.00	0.00
170.00	-40.00	0.00
200.00	-40.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-02

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-57°	Depth:	Dip	1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
Feb. 25/96	Feb. 27/96	Feb. 28/96	D. Parker	0.0	-57°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	75.0	-57°	
Lingman Lake	Feb. 28/96		1209548			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**	150.0	-56°	
in core racks	3079.0E, 3706.0N (10100.0'E, 12159.0'N)	230.0	BQ			
Location:				230.0	-53°	
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-02
Collar Eastings: 3075.00
Collar Northings: 3706.00
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -57.00
Grid Bearing: 0.00
Final Depth: 230.00 metres

Logged by: D.Parker
Date: 02/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
0	3.0	Overburden (Ovb)					
3.0	4.75	Mafic Flow (2k) - Dark green. Fine to medium grained 1-3 mm amphibole grains in a chloritic matrix. Massive to weakly foliated 40° CA. Lower contact sharp 40° CA. Minor disseminated calcite.					
4.75	73.69	Mafic Tuff (2g, a) - Dark green to gray green, fine grained chloritic with minor local biotite. Weak to moderate foliation 40° CA average but local flexures rotate foliation to 5° CA. Locally weakly magnetic. Very poor compositional layering appears to be subparallel to foliation.	75058	31.10	32.10	1.00	5
			75089	32.10	32.60	0.50	5
			75060	32.60	33.30	0.70	TRACE
			75061	33.30	34.10	0.80	TRACE
			75062	34.10	35.10	1.00	TRACE
			75063	35.10	36.10	1.00	5
			75064	36.10	37.10	1.00	5
			75065	37.10	37.60	0.50	TRACE
			75066	37.60	38.25	0.65	TRACE
			75067	38.25	39.25	1.00	110
			75068	39.25	40.25	1.00	10
			75069	58.00	59.00	1.00	185
			75070	59.00	60.00	1.00	185
			75071	70.70	71.70	1.00	TRACE
			75072	71.70	72.70	1.00	10
		4.75 - 4.90; 50% quartz stringers. Gray-white 40° CA. Trace pyrite.					
		6.30 - 6.70; 80% quartz carbonate stringers 40° CA.					
		20.00 - 29.00; Broad folds in foliation axial trace 30-40° CA possibly coplanar with average foliation. 5% calcite stringers along foliation and irregular fractures.					
		32.25 - 34.00; patchy weak silicification with 1% pyrite and pyrrhotite and trace chalcopyrite and arsenopyrite along foliation					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		30° CA. 37.15 - 37.65; weak silicification. Minor fine disseminated pyrite. 37.65 - 38.20; 90% quartz vein. Gray-white with chlorite. 1-2% pyrite and pyrrhotite. Minor fine tabular arsenopyrite. 50.00 - 70.72; Typically homogenous and poorly foliated. May be predominantly fine-grained mafic flows. 58.10 - 59.95; Minor pyrite and arsenopyrite with trace chalcopyrite and pyrrhotite disseminated and along 2-5 mm quartz seams 45° CA. 70.72 - 73.69; Moderately foliated 40° CA. Weakly silicified. 3-5% quartz stringers and blebs. Minor disseminated pyrite. Contact at 73.69 40° CA.					
73.69	133.50	Mafic Flow (2k, c) - Dark green. Massive to very weakly foliated 40° CA. Medium grained. 40% 1-3 mm amphibole grains in a fine chlorite-feldspar matrix. Typically moderately magnetic. Locally non magnetic. 102.5 - 102.7; 40% quartz stringers. Moderate foliation 40° CA. Contact at 133.5 Sharp 35° CA.	75073	72.70	73.70	1.00	10

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au(ppb)
133.50	137.95	Mafic Tuff (2g) - Dark green. Weak to moderate foliation 35° CA. Fine grained chloritic, minor biotite. Moderately magnetic. 135.45 - 136.20; 50% narrow silicified zones 40° CA with trace pyrite. Lower contact sharp 45° CA.	75074	135.50	136.20	0.70	5
137.95	155.25	Mafic Flow (2k, c) - As 73.69 - 133.50. 146.5 - 149.0; Several narrow felsic feldspar porphyritic dykes. Orange-pink. Moderate core angles. 1-10 cm. 3% overall. Lower contact at 155.25 gradational over 10 cm.					
155.25	167.05	Ultramafic Flow (1a) - Dark gray to green-gray. Weak to well foliated 30-50° CA, locally chaotic. Fine-grained. Talcose. Strongly magnetic. 5% ankerite stringers along foliation. Lower contact sharp 45° CA.					
167.05	185.75	Mafic Tuff (2g, a) - Dark green to gray-green. Weak to moderate foliation 55° CA. Fine grained chloritic with local minor biotite. Locally weakly magnetic. 172.2 - 172.75; Several narrow 1-15 cm orange felsic feldspar porphyries at moderate angles.	75075	174.50	175.50	1.00	95
			75076	175.50	176.50	1.00	25
			75077	176.50	177.50	1.00	265
			75079	177.50	178.50	1.00	70
			75080	178.50	179.50	1.00	90
			75081	179.50	180.50	1.00	335

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
			75082	180.50	181.50	1.00	190
		174.65 - 175.10; Weakly siliciifed.	75083	181.50	182.20	0.70	50
			75084	182.20	183.20	1.00	9660
		176.60 - 177.60; Moderately silicified. 1% disseminated fine pyrite and pyrrhotite. Minor fine tabular arsenopyrite and chalcopyrite. Local very fine grained pale green silicate fuchsite? actinolite? Moderate foliation 50° CA.	75085	183.20	183.80	0.60	620
			75086	183.80	184.50	0.70	45
			75087	184.50	185.50	1.00	110
		180.70 - 181.50; 1% medium grained 2-3 mm disseminated pyrite.					
		182.20 - 183.20; Silicified with 3-5% pyrite and pyrrhotite fine disseminated and along foliation 55° CA.					
		184.55 - 185.40; Fault zone. Breccia with shearing 55° CA. Siliceous fragments. 3-5% pyrite blebs. 1% molybdenite along shears. Lower contact at 185.75. Gradational over 10 cm.					
185.75	210.7	Mafic Flow (2k, c) - As 73.69 - 133.50.	75089	185.50	186.50	1.00	TRACE
			75090	186.50	187.50	1.00	10
		185.75 - 195.0; Weakly foliated 45-55° CA.	75091	187.50	188.50	1.00	70
			75092	188.50	189.50	1.00	5
		191.60 - 192.10; Silicified with 3-5% fine disseminated pyrite and minor arsenopyrite. Weak foliation 65° CA.	75093	189.50	190.50	1.00	TRACE
			75094	190.50	191.50	1.00	TRACE
			75095	191.50	192.20	0.70	2480
		192.10 - 192.75; Weakly silicified with minor fine disseminated pyrite and arsenopyrite.	75097	192.20	192.80	0.60	145
			75098	192.80	193.80	1.00	TRACE
			75099	193.80	194.80	1.00	50

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		196.5 - 208.0; 1% gray quartz stringers 0.5 - 2 cm with trace molybdenite. Various angles. Minor ferromolybdate stain on fractures.	75100	206.70	207.70	1.00	15
			75101	207.70	208.70	1.00	45
			75102	208.70	209.60	0.90	50
			75103	209.60	210.00	0.40	2830
		207.0 - 210.05; Weakly foliated 40° CA. Minor fine pyrite along foliation.					
		210.05 - 211.-; Fault-shear zone. Brecciated. Sheared 40° CA. 40% felsic feldspar porphyry. 60% chlorite schist. 2-3% fine disseminated pyrite. 10% gray quartz stringers. Minor ferro-molybdate stain.					
210.7	230.0	Mafic Feldspar Porphyry (2i) - ("Leopard Rock") Dark green. Massive to very weakly foliated 45° CA. Coarse grained 0.5-3.0 cm glomeroporphyritic feldspar clusters in a fine to medium grained amphibole-feldspar matrix.	75104	210.00	211.00	1.00	565
			75106	211.00	212.00	1.00	55
			75107	212.00	213.00	1.00	60
			75108	213.00	214.00	1.00	10
			75109	214.00	214.75	0.75	5
		214.80 - 216.1; 50% gray quartz veins and stringers 60° CA with minor molybdenite and pyrite.	75110	214.75	215.60	0.85	TRACE
			75111	215.60	216.20	0.60	TRACE
			75112	216.20	217.20	1.00	5
		217.30 - 217.80; Moderate foliation 40-60° CA. Silicified 3-5% fine disseminated pyrite.	75113	217.20	217.90	0.70	6590
			75114	217.90	218.90	1.00	45
			75115	218.90	219.90	1.00	10
		End of Hole (EOH)					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-02

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-57.00	0.00
150.00	-56.00	0.00
190.00	-54.50	0.00
230.00	-53.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-03

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-66°	Depth (m)	Dip	1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
Feb. 27/96	March 1/96	March 2/96	D. Parker	0.0	-66°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**			
Lingman Lake	March 2/96		1209548	75.0	-64°	
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core racks	3079.0E, 3706.0N (10100.0'E, 12159.0'N)	299.0	BQ	150.0	-65°	
Location:				225.0	-64°	
@ camp site @ Lingman L.						
				229.0	-63°	

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-03
Collar Eastings: 3075.00
Collar Northings: 3706.00
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -66.00
Grid Bearing: 0.00
Final Depth: 299.00 metres

Logged by: D.Parker
Date: 02/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
0	4.00	Casing (Ovb)					
4.00	10.40	Mafic Flow (2k) - Dark green. Weakly foliated 30° CA. Fine to medium grained 1-3 mm tabular amphibole grains in a chloritic matrix. Locally weakly magnetic. 6.0-7.45; 50% wispy carbonate-quartz stringers. White. Variable core angles	75116	5.90	6.80	0.90	TRACE
			75117	6.80	7.50	0.70	TRACE
10.40	76.30	Mafic Tuff (2g) - Dark green. Weak to moderate foliation 35° CA. Fine-grained chloritic locally minor biotite. 5-10% quartz and quartz-calcite stringers 1mm-2 cm along foliation and fractures at various core angles. Upper contact sharp 30° CA. Lower contact gradational over 10 cm. 15.85-16.25; 5% irregular gray quartz stringer ptygmatically folded with 2-3% fine to medium grained pyrite 35.40-37.50; medium-grained mafic flow as 4.0-10.4. Contacts gradational over 10 cm. 53.20-55.00; 1-2% pyrite and pyrrhotite with minor arsenopyrite disseminated and along foliation and fractures	75118	15.80	16.30	0.50	TRACE
			75119	53.10	54.10	1.00	30
			75120	54.10	55.10	1.00	180
			75121	64.00	64.60	0.60	175
			75122	64.60	65.60	1.00	480
			75123	65.60	66.10	0.50	25

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		64.00-64.70; minor pyrrhotite along fractures and foliation 30° CA					
		64.70-65.60; 1-2% tabular arsenopyrite and 1-2% pyrite and pyrrhotite along fractures and foliation					
		65.60-66.10; trace disseminated pyrite and pyrrhotite					
		67.20-76.30; section is more homogenous. May be predominantly fine grained mafic flow, lower contact gradational over 10 cm					
76.30	80.50	Mafic Flow (2k, c) - Dark green. Massive to weakly foliated 35-50° CA. Medium grained 1-3 mm tabular amphibole grains locally acicular amphibole grains up to 1 cm. Contacts gradational over 5 cm.					
80.50	83.15	Mafic Tuff (2g) - As 10.40-76.30. Weak to moderate foliation 40° CA lower contact sharp 45° CA					
83.15	197.15	Mafic Flow (2k) - Dark green. Massive to weakly foliated 45° CA. Medium-grained 1-3 mm tabular amphibole grains in chloritic-feldspar matrix. Locally weakly magnetic.					
		131.55-132.25. Silicified. Moderate foliation 40° CA. Trace pyrite					
		181.9-193.1; 1-2% 1-15 cm orange flesic feldspar porphyries					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		at various core angles					
		197.15; minor slip at lower contact 75° CA					
197.15	203.45	Ultramafic Flow (1a) - Dark grey to gray-green. Moderately foliated 55° CA. Fine-grained talcose. 5-10% ankerite disseminated and along foliation. Strongly magnetic. Lower contact sharp 40° CA.					
		200.00-200.40; blocky and ground core 80% recovery					
203.45	225.60	Mafic Tuff (2g) - Dark green. Weak to moderate foliation 35° CA. Fine-grained chloritic with minor biotite. Locally weakly magnetic. 5% calcite seams along foliation and irregular fractures. Lower contact sharp 20° CA.	75124	218.50	219.00	0.50	780
			75125	221.60	222.60	1.00	25
			75126	222.60	223.60	1.00	100
			75127	223.60	224.60	1.00	215
			75129	224.60	225.60	1.00	80
		215.30-218.4; homogeneous, more massive, may be fine to medium grained intermediate flow					
		218.4-225.60; increase in biotite, locally up to 3-5%. Minor pyrite and pyrrhotite blebs along fractures					
		218.50-219.00; 20% quartz stringers 40° CA					
		222.65-225.00; 30% silicified zones					
		223.0; 1 cm quartz stringer, 1% arsenopyrite					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
225.60	237.20	Intermediate Feldspar-Porphyry (3b) - Dark gray. Massive to very weakly foliated 40° CA. 30% 2-3 mm white to opaque tabular feldspar grains in fine-grained siliceous matrix with minor chlorite 226.15-226.55; mafic tuff as 222.65-225.00. 2-3% pyrite and pyrrhotite. Minor chalcopyrite, upper contact 70° CA. Lower contact 20° CA 236.9-237.20; minor fault with shearing at 30° CA. 25% quartz stringers along foliation	75130	225.60	226.10	0.50	5
			75131	226.10	226.60	0.50	190
			75132	226.60	227.60	1.00	5
			75133	235.90	236.90	1.00	TRACE
237.20	241.45	Mafic Flow (2k) - as 83.15-197.15, minor pyrite and pyrrhotite blebs along foliation and fractures	75134	236.90	237.40	0.50	80
			75135	237.40	238.40	1.00	520
			75136	238.40	239.40	1.00	130
			75137	239.40	240.40	1.00	185
			75138	240.40	241.40	1.00	925
241.45	246.50	Mafic Tuff (2g) - Gray-green to gray-brown. Moderately foliated 30° CA. Fine-grained chloritic; local biotite; local silicification minor pyrite and pyrrhotite blebs along fractures and foliation 243.45-244.15; silicified. 3-5% fine disseminated pyrite. Trace arsenopyrite 244.4-244.60; silicified. 3-5% pyrite and pyrrhotite fine disseminated with trace chalcopyrite	75139	241.40	242.40	1.00	7240
			75140	242.40	243.40	1.00	2830
			75141	243.40	244.20	0.80	7110
			75142	244.20	245.00	0.80	9500
			75143	245.00	246.00	1.00	12340

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		245.1-245.25; 50% gray quartz stringers 25° CA, 2% pyrite					
		245.25-245.60; silicified. 5-7% fine pyrite with minor chalcopyrite					
		245.60-245.70; fault gouge, chlorite schist					
		245.70-245.80; quartz vein. Gray-white. 35° CA. 2% fine pyrite. 1% molybdenite					
		245.80-246.00; 1% fine pyrite, lower contact sharp 40° CA					
246.50	260.0	Mafic Flow (2k) - Dark green. Massive to weakly foliated 30° CA. Fine to medium-grained with local concentrations of 2-3 mm amphibole grains. Typically moderately magnetic	75145	246.00	247.00	1.00	30
			75146	247.00	248.00	1.00	15
			75147	248.00	248.70	0.70	45
			75148	248.70	249.70	1.00	15
			75149	249.70	250.70	1.00	10
		248.70-250.65; 10% gray quartz stringers with 15% molybdenite and minor pyrite at 0-40° CA. Minor ferromolybdate staining on fractures.	75150	250.70	251.70	1.00	TRACE
			75151	251.70	252.50	0.80	TRACE
			75152	252.50	252.90	0.40	20
			75153	252.90	253.60	0.70	130
		252.95-253.50; silicified 5% pyrite finely disseminated and along moderate foliation 35° CA.	75154	253.60	254.30	0.70	10
			75155	254.30	255.30	1.00	50
			75156	255.30	256.00	0.70	45
		253.50-254.3; 1% finely disseminated pyrite	75157	256.00	257.00	1.00	40
			75158	257.00	258.00	1.00	25
		257.0-260.0; minor disseminated pyrite	75159	258.00	259.00	1.00	10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au(ppb)
			75160	259.00	260.00	1.00	10
		260.0; sharp contact 60° CA					
260.0	267.60	Mafic Feldspar Porphyry - "Leopard Rock" (2i) - Dark gray to gray-green. Massive to very weakly foliated. Coarse grained. Glomeroporphyritic feldspar crystals 0.5-2.0 cm in a feldspar-amphibole matrix. Lower contact gradational over 10 cm.	75161	260.00	260.50	0.50	TRACE
			75162	260.50	261.00	0.50	10
			75163	261.00	262.00	1.00	TRACE
		260.70; 8 cm gray quartz stringer with 2% molybdenite and minor pyrite. Minor epidote. Irregular contacts.					
267.60	285.95	Mafic Tuff (2g) - Dark green to gray. Weak to moderate foliation 25-40° CA. Fine-grained chloritic with local minor biotite. Locally weakly magnetic. Local silicified zones. Typically trace pyrite.	75164	274.50	275.50	1.00	20
			75165	275.50	276.50	1.00	125
			75166	276.50	277.50	1.00	755
			75167	277.50	278.10	0.60	2800
			75168	278.10	278.70	0.60	90
			75169	278.70	279.70	1.00	10660
			75170	279.70	280.70	1.00	70
			75171	280.70	281.70	1.00	10730
			75172	281.70	282.70	1.00	440
			75173	282.70	283.70	1.00	7280
			75174	283.70	284.40	0.70	520
			75175	284.40	285.10	0.70	265
		276.75-276.85; silicified zone with 5% pyrite 45° CA					
		277.55-278.0; weakly silicified with 2-3% pyrite 25° CA					
		278.72-278.90; weakly silicified with 2-3% pyrite 15° CA					
		279.15-279.35; silicified with 2-3% pyrite 30° CA					
		279.45-279.65; silicified with 2-3% pyrite 35° CA					
		280.85-285.95; silicified 2-3% fine pyrite, minor pyrrhotite,					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		trace chalcopyrite and arsenopyrite					
		281.40-282.5; abundant fine grained brown mineral biotite?					
		283.80-284.30; 90% quartz-carbonate vein, white, 25% chloritic partings. 1-2% pyrite. 35-50° CA					
		284.65-284.95; 65% quartz-carbonate vein, white, 40% chloritic partings, 5% biotitic partings, 1% pyrite					
		285.95; contact along foliation 55° CA					
285.95	299.0	Mafic Feldspar Porphyry - "Leopard Rock" (2i) - Dark gray, massive to very weakly foliated 45-55° CA. 5% 0.5-1.5 cm glomeroporphyritic feldspars in a feldspar-amphibole matrix.	75176	285.10	286.00	0.90	2780
			75178	286.00	287.00	1.00	25
			75179	287.00	288.00	1.00	40
		294.50-299.0; blocky core, local minor fault gouge and ground core. 90% + recovery. Minor iron stain on fractures.					
		End of Hole (EOH)					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-64.00	0.00
150.00	-65.00	0.00

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-03

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	WIDTH	Au(ppb)

DEPTH	INCLINATION	BEARING
225.00	-64.00	0.00
299.00	-63.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-04

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 3/96	March 4/96	March 5/96	D. Parker E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	75.0	-43°	
Lingman Lake	March 5/96		1209548			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**	150.0	-39°	
in core racks	3079.0E, 3559.0N (10100.0'E, 11676.0'N)	248.0	BQ			
Location:				248.0	-37°	
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04
Collar Eastings: 3079.00
Collar Northings: 3559.00
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 248.00 metres

Logged by: d.parker/e.frey
Date: 02/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
0	0.2	Overburden (Ovb)					
0.2	11.60	Ultramafic Flow (1a) - Dark gray. Well foliated 60° CA. Fine grained; talcose. Minor disseminated calcite. 10% quartz-ankerite (magnesite?) Stringers along foliation and fractures moderately magnetic. Trace disseminated pyrite. Core is highly fissile and blocky with numerous narrow zones of fault gouge. Sharp contact 60° CA.	75180	8.00	9.00	1.00	TRACE
11.60	27.8	Mafic Flow (2a) - Dark green, very fine grained. Massive to weakly foliated 55° CA. Chloritic with 5% calcite and pyrite seams along foliation and irregular fractures locally magnetic. Minor pyrite seams and clots to 5 mm.					
27.8	50.5	Ultramafic Flow (1a) - As previous. Talcose-chlorite gouge.					
		47.1 - 47.15 and 48.1 - 48.7.					
50.5	95.5	Mafic Flow (2a, 2c) - 60.3-60.4; quartz vein 1-2% ASP, 1-2% pyrite	75181	60.80	61.10	0.30	550
			75182	61.40	62.40	1.00	15
		70.6-71.1; Silicified, 3-5% pyrite	75183	64.30	64.60	0.30	TRACE
		75.5-76.0; 2-3% pyrite blebs	75184	69.00	69.40	0.40	25
		799.7-79.8; Silicified, 5-7% pyrite	75185	69.40	70.00	0.60	35
		Sil; 1% very fine-grained disseminated pyrite	75186	70.70	71.20	0.50	10

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		Sil; 2-3% pyrite seams & disseminated very fine-grained	75187	71.20	72.20	1.00	TRACE
		Sil; 5-7%, pyrite very fine grained lattice, some dissemination	75188	75.50	76.50	1.00	10
		86.82-86.95; Calcite alteration, upper and lower contacts CA 60°,	75189	79.70	80.20	0.50	15
		pyrite at upper contact	75190	87.50	88.50	1.00	25
		89.75; Red-brown sphalerite seam 3 mm	75191	88.50	89.50	1.00	55
		87.8-94.4; 1-2% disseminated very fine-grained pyrite, zone to	75192	89.50	90.50	1.00	70
		5-10% clots, lattice pyrite þ calcite alteration	75193	90.50	91.50	1.00	15
			75194	93.50	94.50	1.00	TRACE
95.5	99.6	Medium-grained Basalt (2c)					
99.6	108.3	Massive fine-grained Basalt (2a)					
		103.85 - 104.0; Silicified, 3-5% pyrite					
		103.0; chalcopyrite bleb					
108.3	109.3	Medium-grained Basalt (2c) - weak chlorite alteration					
109.3	125.1	Massive fine-grained Basalt (2a) - 109.5 6 cm silicified (+ 1 cm	75195	109.30	110.30	1.00	75
		fine-grained pyrite seam), CA 70°.	75196	110.80	111.80	1.00	5
			75197	118.00	119.00	1.00	TRACE
		109.9-110.0; silicified + pyrite stringers and weak biotite	75198	120.20	121.20	1.00	TRACE
		alteration.					
		110.0-113.6; silicified and wispy quartz vein þ pyrite 5%					
		113.8, 115.05, 115.5, 115.95-116.12, 116.75-116.9,					
		117.75-117.95; grey altered clots, deformed ovals to 1x2 cm					
		118.18-118.8; fine-grained white silicified, upper contact CA 50,					
		speck arsenopyrite (< 1%), sharp fault @ 118.4, CA 80°					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION
		119.95-121.2; 50% white, fine-grained silicified alteration as wispy patches pyrite <1%.
125.1	125.7	Mafic Tuff (2g) - Grey, brown, weak biotite alteration, very fine-grained. Lower contact CA 30°
125.7	226.3	Massive fine-grained Basalt (2a) - Weakly magnetic, quartz vein seams, veinlets, gashes, variable angles, 5%, rare pyrite, foliation 30-60°. 129.4-130.7; medium-grained basalt, silicified and pyrite stringers at lower contact, CA 50°. 130.7; Several silicified and sulphide stringers zones: 131.2-131.3; 2-3% pyrite 131.3-131.9; swirled foliation 131.5-131.8; very fine-grained brown biotite, molybdenite, pyrite and minor chalcopyrite, sulphides, 5-10% disseminated & seams 133.45-133.85; white-grey cherty quartz, pyrite very fine-grained clots and stringers ~ 3-5% 134.0-134.2; quartz as above; pyrite, very fine-grained disseminated and large clots, ~ 5% pyrite 134.2-135.2; ~ 2% disseminated and stringer pyrite 135.5-135.7; white fine-grained quartz stringers, specks pyrite 139.7; brown biotite alteration and disseminated pyrite 3 cm zone 145; isoclinal folding within folia, CA 60° 148.3; pyrite seams on folia, CA 60° 149.2; 4 cm pyrite stringers, blebs ~ 5% 149.5-149.8; thin pyrite stringers in folia

SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
75199	130.00	131.00	1.00	130
75200	131.00	132.00	1.00	1460
75202	132.00	133.00	1.00	10
75203	133.00	134.00	1.00	15
75204	134.00	135.00	1.00	15
75205	135.00	136.00	1.00	15
75206	139.00	140.00	1.00	10
75207	148.00	149.00	1.00	5
75208	149.00	150.00	1.00	5
75209	150.00	151.00	1.00	5
75210	151.00	152.00	1.00	35
75211	152.00	153.00	1.00	10
75212	153.00	154.00	1.00	10
75213	154.00	155.00	1.00	10
75214	160.00	161.00	1.00	10
75215	171.50	172.50	1.00	10
75216	186.00	187.00	1.00	15
75217	191.00	192.00	1.00	15
75218	194.50	195.50	1.00	TRACE
75219	211.00	212.00	1.00	20
75220	212.00	213.00	1.00	2490
75222	213.00	214.00	1.00	310

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		150.1-150.4; pyrite on numerous slips CA 40°	75223	214.00	215.00	1.00	55
		152.9; very fine-grained pyrite disseminated in white silicifed alteration	75224	215.00	216.00	1.00	10
			75225	216.00	217.00	1.00	15
		153.3-153.4; fine-grained pyrite clots 2 x 4 cm	75226	217.00	218.00	1.00	45
		158.0-158.4 & 158.95-159.2; large white silicified clots/stringers, variable	75227	218.00	219.00	1.00	10
			75228	219.00	220.00	1.00	10
			75229	220.00	221.00	1.00	30
		160.4-160.9; pyrite seams and stringers in white silicified alteration, minor pyrrhotite	75230	221.00	222.00	1.00	45
		171.8-172.0; strong, fine-grained white silicified and 3% wispy pyrite at lower contact, 50° CA					
		186.3-186.6; white silicified and 2% pyrite in 170-180° CA slips (+ gouge)					
		191.5-191.6; white-gray (2-3 cm wide) silicified, fine-grained, sharp upper and lower contacts, 25° CA, pyrite blebs to 5 mm (2%)					
		194.7; 1 cm wide white silicified zone, CA 160°, cuts foliation quartz seams (CA 50°)					
		194.72-194.92; very fine-grained white silicified and massive fine-grained basalt folia, 1% pyrite disseminated, CA 50°					
		208.3-208.6; xenolith(?) coarse-grained feldspar porphyry, 2 cm clot, fine-grained magnetite (after pyrite) reaction aim ~ 2% pyrite, rare chalcopyrite bleb on rim, CA 180°					
		212.1-212.9; gray, cherty quartz silicified total 50% of massive fine-grained basalt, pyrite, rare arsenopyrite and chalcopyrite and pyrrhotite(?) as very fine-grained disseminated and numerous 1 mm stringers/seams, total sulphides ~ 20% of zone, minor very fine-grained brown biotite ~ 3%, CA 60°					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		214.13-214.22; gray cherty quartz, sharp upper and lower contacts, CA 50°, 3% fine grained euhedral-subhedral arsenopyrite, pyrite, rare chalcopyrite 214.2-214.3; 3% magnetite, 2 mm grains in folia 214.7-215.3; very strong silicified, minor pyrite on folia 215.7; folia fault 2 cm sinistral, CA 40° 218.6-218.9; weak sericite þ biotite alteration 219-221.5; ~ 1% pyrite very fine-grained in folia, ~ 3-5% disseminated magnetite (some after pyrite?), CA 30° 221.0-222.0; silicified and <1% disseminated pyrite					
226.3	227.5	Medium-grained basalt (2c) - CA 70°, weakly magnetic, less silicified than massive fine-grained pyrite ~ 2% disseminated and few folia seams to 2 mm. 227.1-227.5; gray quartz flooded ~ 3% pyrite as lattice and disseminated, 80% quartz vein, <20% massuve fine-grained basalt and medium-grained basalt, very fine-grained molybdenite? (grey clouding) lower section pyrite, pyrrhotite clots to 1 cm x 3 mm, CA 20°	75231	226.00	227.00	1.00	50
227.5	229.85	Massive fine-grained basalt (2a) 228.0, 228.3, 229.1; coarse-grained wisps pyrite, pyrrhotite and disseminated pyrite, totals ~ 2% in silicified massive fine-grained basalt 230.35-230.6; pyrrhotite, pyrite lattice and folia 20% in upper part, 5% downhole, 50° CA	75232 75233	227.00 228.00	228.00 229.00	1.00 1.00	20 40

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	WIDTH	Au (ppb)
		~ 231; strongly magnetic (magnetite in flows and or high very fine-grained pyrrhotite context, very fine-grained pyrite (pyrrhotite?) ~ 5% throughout ~ 235; CA 40° 236.3-236.9; pyrrhotite and minor pyrite, chalcopyrite in clots and folia to 20% sulphide, 10% in section, CA 40°, 1% disseminated pyrite, 1 mm and very fine-grained pyrite					
238.45	241.2	Andesite porphyry (3b) - Mafic? intermediate? feldspar porphyry (andesite porphyry?) flow (or intrusive?) dark gray-black, very fine-grained, fine-grained groundmass, light gray-white feldspar phenocrysts: 2-5 mm, subhedral-anhedral, ~ equant, 40-50% non-magnetic, massive, cut by minor silicified zones @ 80° CA, upper contact of porphyry diffuse @ 25° CA.	75234	229.00	230.00	1.00	20
			75235	230.00	231.00	1.00	20
			75236	231.00	232.00	1.00	60
			75237	236.00	237.00	1.00	TRACE
			75238	237.00	238.00	1.00	TRACE
		241.2; lower contact patchy with minor wispy fine-grained pyrite					
241.2	243.5	Massive fine-grained basalt (2a)					
243.5	248.0	Medium-grained basalt (2c) - Gradational contact massive fine-grained basalt into medium-grained basalt lower section CA 40°.					
		End of Hole (EOH)					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-04

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-43.00	0.00
112.50	-41.00	0.00
150.00	-39.00	0.00
248.00	-37.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-05

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 5/96	March 7/96	March 8/96	B. McGrath	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	75.0	-45°	
Lingman Lake	March 8/96		1209547			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**	150.0	-44°	
in core racks	4268.0E, 3552.0N (14000.0'E, 11653.0'N)	271.5	BQ			
Location:				225.0	-40°	
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-05
Collar Eastings: 4268.00
Collar Northings: 3552.00
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 271.50 metres
to test east extension of zones

Logged by: B.McGrath
Date: 03/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
0	15.00	Overburden (Ovb)					
15.00	30.80	Massive fine-grained basalt (2a) - Dark green, fine grained, weak 70° to CA, at 27.07 m at 50° to core axis, 63 cm of blocky core & 5 cm @ 27.95 m, at 16.3 m at, fine-grained pyroxenite, non magnetic, at 20.9 m at, 15 cm with 1-2% pyrite pyrrhotite, trace chalcopyrite, magnetite and calcite, at 23.65 m at 70° to core axis, 12 cm with 1-2% pyrite pyrrhotite, trace chalcopyrite flow top?, gradational over 20 cm, trace chalcopyrite as blebs, associated with veining, trace fine-grained, disseminated arsenpyrite as blebs, often associated with quartz-carbonate veins and in fractures, trace pyrrhotite, as seams along foliation and fractures. Unit is predominantly massive with several quartz-carbonate tension gashes near the upper portion 28.20 m buff-tan sphalerite with quartz-carbonate veins.	75239	20.62	21.30	0.68	TRACE
			75240	23.40	24.40	1.00	TRACE
			75241	28.00	28.75	0.75	TRACE
30.80	32.10	Medium-grained basalt (2c) - Sharp lower contact 30° to CA. Minor biotite alteration and pervasive quartz veining. Veins may contain traces of patchy pyrite and pyrrhotite. 31.60 m pyro-clastic fragmental?, 4 cm diameter.	75243	31.10	32.10	1.00	5
32.10	59.35	Massive fine-grained basalt (2a) - Dark green to light grey, fine-grained, strongly silicified, 32.10-33.30 m zone. Weak foliation 30-40° to CA, to moderate. Quartz and quartz-carbonate veins	75244	32.10	32.60	0.50	TRACE
			75245	32.60	33.10	0.50	TRACE
			75246	33.10	34.10	1.00	20

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au (ppb)
		85.95 m at 0° to CA, orange-pink quartz-carbonate with 1-2% patchy pyrrhotite and pyrite, moderate lower contact 50-60° to CA					
87.30	99.60	Coarse-grained basalt/Massive fine-grained bassalt (2h, a) - (90%/10%) Gradational upper contact, sharp lower contact 40-50° to CA, mostly barren quartz-carbonate veins 60-70° to CA.	75253	87.30	88.00	0.70	135
			75254	88.00	88.70	0.70	50
		Coarse-grained basalt: dark green, coarse-grained, weakly epidotized, light lime green zones up to 8 cm @ 89.1, 94.7, 95.85m. Massive 70° to CA, barren quartz-carbonate þ minor chlorite moderate 40-60° to CA.					
		Massive fine-grained basalt: as above @ 84.8-87.3 m, trace fine to medium-grained, pyrite in veins and as blebs, associated often with quartz-carbonate veins, slightly magnetic.					
99.60	114.20	Massive fine-grained basalt (2a) - As above @ 84.8-87.3. Gradational lower contact 50° to CA, defined by increased foliation and biotite alteration, vein at 112.45 m at 50-70° to CA, or gashes of quartz-carbonate with 5-10% pyrite and pyrrhotite. Trace fine-grained, arsenopyrite, 20% fine-grained pyrite in veins, 100.72-100.73 (1 cm), trace fine-grained, pyrrhotite in veins, diffuse through the interval, usually associated with quartz-carbonate veins.	75255	100.50	101.00	0.50	10
114.20	127.5	Medium-grained basalt (2c) - As above @ 59.35-84.80.					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		Crenulations @ 115.1 m (30 cm) & 115.8 m (10 cm), weak foliation 50-70° to CA, to massive. Local weak magnetism, diffuse disseminated and patchy pyrrhotite and pyrite along foliation and fractures.					
127.50	146.20	Massive fine-grained basalt (2a) - Fine-grained basalt as @ 99.60-114.2 m with a significant decrease in quartz-carbonate veining and tending to be more massive than previously. Veins are more so veinlets with trace pyrrhotite and pyrite. Moderate coarsening of matrix with depth. Foliation of 70° to CA. Upper contact is sharp, lower contact is sharp. 140.22-140.50; chaotic foliation defined by quartz-carbonate veining/veinlets with 10-15% pyrrhotite and minor chalcopyrite, pyrite and biotite 143.0-146.0; traces of wispy pyrite and pyrrhotite seams. Sharp lower contact 40° to CA.	75256	140.00	140.70	0.70	80
146.20	148.50	Medium-grained basalt (2c) - with barren quartz-carbonate veins and veinlets. Sharp lower contact 50° to CA.					
148.50	149.40	Talc-carbonate schist-komatitic flow (1a) - Blue grey, medium-grained well foliated @ 50-60° to CA. Talcose, well magnetized, having coarse grained rounded subhedral-anhedral carbonate fragments (up to 5 mm diameter), traces of pyrrhotite, minor crenulations and a sharp lower contact @ 50° to CA.					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-05

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
149.4	152.0	Massive fine-grained basalt (2a) - Dark green-grey, moderate to well foliated with strong chloritic - partly siliceous - and minor quartz-carbonte matrix having 5-10% fine-grained wispy, veined pyrrhotite along foliation fractures. Sharp lower contact 50-55° to CA.	75257	149.45	150.35	0.90	10
			75258	150.35	151.25	0.90	95
152.0	152.5	Talc-carbonate schist (1a) - As above @ 148.50-149.40. Sharp lower contact 50° to CA.	75259	151.25	152.15	0.90	90
152.5	165.0	Massive fine-grained basalt (2a) - As above with minor to 1% pyrrhotite, pyrite associated along foliations and fractures. Unit is moderately foliated @ 50° to CA. Quartz-carbonate occurs as veins and veinlets with chlorite partings, epidote alteration and pyrrhotite and pyrite mineralization principally as blebs, patches, veins and vein disseminations.	75260	152.50	153.50	1.00	40
			75262	153.50	154.50	1.00	15
			75263	154.50	155.50	1.00	NIL
			75264	155.50	156.50	1.00	50
			75265	156.50	157.50	1.00	70
			75266	164.00	165.00	1.00	65
		156.05-156.30; chaotic quartz-carbonate vein/brecciation with mafic fragments up to 2 cm in length and 1-3% pyrrhotite and pyrite.					
		156.80-159.05; quartz-carbonate veining concentration with sharp upper and lower contacts @ 40-60° to CA. Sulphides of minor pyrrhotite and pyrite occur as veins, cubes, blebs and patches up to 1 cm in size. Interval has high chloritic alteration.					
		164.70-165.0; gradational silicified and minor quartz-carbonate lower contact with 2-3% pyrrhotite and pyrite as fine-grained					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		veins and patchy blebs.					
165.0	170.10	Medium-grained basalt (2c) - Massive, dark green, chloritic with abundant very fine-grained leucoxene and ~ 1 mm average pyroxene crystals being generally subhedral and equi-granular. Minor occurrences of thin 1 mm - 2 cm quartz-carbonate veins. Moderately sharp lower contact (flow top?) @ 50° to CA.					
170.10	184.15	Fine-grained basalt (2a) - As above @ 152.5 - 165.0 m	75270	179.90	180.35	0.45	105
			75267	181.15	182.15	1.00	15
			75268	182.15	183.15	1.00	NIL
			75269	183.15	184.15	1.00	5
		170.40-170.44; quartz-feldspar vein 70° to CA 170.52-170.58; quartz-feldspar vein 65-70° to CA. Quartz appears recrystallized with minor thin chloritic partings or seams and fine-grained orange-pink subhedral feldspar (carbonate ??). Feldspar grains appear concentrated at margins of veins for ~ 1 mm halo. May reflect intrusive portions of lower massif.					
		171.90-fault; minor gouge and 10 cm zone with veining 175.80-176.40; orange (fleshy)-white quartz feldspar vein/ breccia for 10 cm with fractured fissile core pieces. 176.20-176.40; composite quartz-feldspar (chlorite and epidote altered) zone 170.90-180.35; ptygmatically folded (2 folds) 1 cm width quartz veins. Quartz carbonate veins with fine-grained anastomosing pyrrhotite ~ 1-2% 184.15-184.15; well foliated with numerous quartz-carbonate					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
		veins @ 181.15-181.38 and again @ 181.66-182 m. Minor fine-grained pyrrhotite along foliations and fractures. 181.40-181.60; silicified þ feldspar vein at ~ 0° to CA.					
184.15	190.45	Felsic Hypabyssal Rocks (7) - Massive, moderately foliated grey, highly silicified-sericitic and epidote altered predominantly barren zones (with trace veins of fine-grained pyrrhotite). Foliations 40-50° to CA interdigitating with Massive fine-grained basalt (2a) - Fine grained, dark green quartz-carbonate vein injected basalt. Traces of wispy/seams of fine-grained pyrrhotite. Foliations 35-50° to CA. 184.15-184.95; felsic hypabyssal rock 184.95-195.35; massive fine-grained basalt 185.35-186.55; felsic hypabyssal rock 186.55-186.87; massive fine-grained basalt 186.87-187.07; felsic hypabyssal rock 187.07-188.75; massive fine-grained basalt 188.75-189.30; felsic hypabyssal rock 189.30-190.45; massive fine-grained basalt Sharp lower contact @ 40-50° to CA.	75271 75272 75273 75274 75275 75276 75277 75278 75279	184.15 184.95 185.35 186.55 186.90 187.15 188.10 188.75 189.25	184.95 185.35 186.55 186.90 187.15 188.10 188.75 189.25 190.45	0.80 0.40 1.20 0.35 0.25 0.95 0.65 0.50 1.20	70 40 30 30 35 NIL NIL NIL NIL
190.45	213.85	Quartz diorite (7e) - Variably textured unit having: (a) massive equigranular 1-2 mm blue-smoky quartz, white to buff colored feldspar, minor biotite and pervasive chlorite epidote and sericite alteration, (b) massive silicified sections with opaque flecks << 1 mm, chlorite partions and smeared or altered quartz with tan to buff sericite veinlets, (c) highly foliated 45° to Ca	75280 75282 75283 75284 75285 75286	190.45 200.50 201.50 206.00 207.00 208.00	190.95 201.50 202.00 207.00 208.00 209.00	0.50 1.00 0.50 1.00 1.00 1.00	40 40 20 15 5 NIL

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
		with closely spaced folia defined by generally alternating quartz angen planes to sericitic seams and veinlets. Minor fine-grained pyrrhotite, pyrite, chalcopyrite and red-brown sphalerite mineraltization (a) 201.30-201.50m, 194-197 m (b) massive silicification zone 201.20-213.85 (c) well foliated and sericitic. Gradational lower contact of ~ 50 cm.	75287	209.00	210.00	1.00	10
			75288	210.00	211.00	1.00	NIL
			75289	211.00	212.00	1.00	5
			75290	212.00	213.00	1.00	50
			75291	213.00	213.85	0.85	100
213.85	218.00	Massive fine-grained basalt (2a) - Fine grained basalt as above @ 170.1-184.15, weak foliations at various angles. Grey with pervasive quartz-carbonate veining approaching 20%. Veins are often chaotic with breccia fragments of 1-2 mm, veins are often offset and are significantly reduced in sulphide content. Trace pyrrhotite and pyrite. Unit is non magnetic with pervasive chloritic alteration.	75292	213.85	215.00	1.15	60
218.00	218.40	Fault - Blocky core and fault gouge 80° to CA.					
218.40	226.85	Massive fine-grained basalt (2a) - Fine grained basalt as above @ 213.85-218.00, weak to moderate foliation 60° to CA. Quartz-carbonate veins are random and chaotic in the upper sequence. The vein concentration decreases from 220.0-227.85 and veins are more uniform @ 55-60° to CA. 226.65 crenulations 308 to CA, 223.70 m 2 angular fractured anhedral feldspar fragments (poikiloblasts?). Sharp lower contact @ 70° to CA.					
226.85	227.85	Andesite porphyry (3b) - Grey massive to weakly foliated 60-70° to CA. Approximately 5-10% 1-2 mm subhedral, white to buff colored feldspar xenoliths in a fine-	75293	226.85	227.85	1.00	NIL

PROPERTY: LINGMAN LAKE
HOLE No.: 96-05

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		grained siliceous matrix with varied chloritic alteration partings/ seams. Sharp contact 60° to CA.					
227.85	228.85	Massive fine-grained basalt (2a) - Fine-grained basalt, as above 218.40-227.85 with a heightened concentration of quartz-carbonate veins and moderate to strong foliation @ 60-70° to CA. Minor quartz augen up to 3 cm in length with trace to minor pyrrhotite along foliations and fractures.	75294	227.85	228.85	1.00	310
228.85	229.20	Andesite porphyry (3b) - As above @ 226.85-227.85 m. Sharp lower contact @ 60° to CA.	75295	228.85	229.20	0.35	70
229.20	230.0	Massive fine-grained basalt (2a) - Fine-grained basalt, as above @ 227.85-228.85. Gradational contact over 5 cm.	75296	229.20	230.00	0.80	4370
230.00	241.85	Medium-grained basalt (2c) - As above @ 165.0-170.10 m. Trace disseminated/blebs of pyrrhotite and pyrite. Sharp lower contact 55° to CA.					
241.85	245.35	Andesite porphyry (3b) - As above @ 228.85-229.20 m with increase in feldspar and xenolith. Size up to 3-4 mm, increase in feldspar concentration 15-25% and alteration in both chlorite and epidote. Sharp lower contact 50° to CA.					
245.35	248.7	Medium-grained basalt (2c) - As above @ 230.00-241.85 m. Moderate lower contact @ 70° to CA.					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
248.7	252.4	Massive fine-grained basalt (2a) - As above with distinct inter-calations inter-fingering of quartz-feldspar @ 249.15-249.50, 249.95-250.20, 251.20-251.30, 251.50-251.70 and quartz-carbonate 252.05-252.10; patchy pyrite blebs up to 2 cm long along quartz-chlorite contact faces.					
252.4	261.60	Andesite Porphyry (3b) - As above @ 241.85-245.35. Moderate lower contact.	75297	261.10	261.60	0.50	10
261.60	263.20	Medium-grained basalt (2c) - Quartz veins/medium-grained basalt 50%/50% barren quartz veins with minor orange-pink feldspar veins and fragments. Sharp lower contact @	75298	261.60	262.40	0.80	NIL
			75299	262.40	263.20	0.80	NIL
263.20	271.50	Mafic feldspar porphyry (2i) - (Leopard Rock) Dark green, coarse-grained massive to weakly foliated 60-70° to CA. ~ 20% fine-grained 1 mm white feldspar grains, ~ 10-20% very coarse epidote altered tan-light lime green glomeroporphyritic feldspars in 60-70% 1-2 mm amphibole grain matrix altered to chlorite(?). Trace disseminations of pyrite.	75300	263.20	263.70	0.50	NIL
		End of Hole (EOH)					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-45.00	0.00

PROPERTY: LINGMAN LAKE
HOLE No.: 96-05

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)

DEPTH	INCLINATION	BEARING
150.00	-44.00	0.00
187.50	-42.00	0.00
225.00	-40.00	0.00
271.50	-40.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-06

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3036.0 (9960.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 8/96	March 10/96	March 12/96	E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	75.0	-44°	
Lingman Lake	March 12/96		1209548			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**	150.0	-43°	
in core racks	2804.0E, 3581.0N (9200.0'E, 11748.0')	227.0	BQ			
Location:				225.0	-41°	
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06
Collar Eastings: 2804.16
Collar Northings: 3581.40
Collar Elevation: 3036.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 227.00 metres

Logged by: E.Frey
Date: 03/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
0	2.0	Overburden (Ovb)					
2.0	13.0	Medium-grained basalt (2c) - Mafic Flow(s), medium-grained, massive, dark green-black, 1% carbonate seams ~ 30-50 , 1-2 cm wide, coarse-grained quartz shear 20° CA @ 4.7; weak chlorite alteration, non-magnetic and sulphides rare (pyrite blebs). 6.5-7.2; quartz-chlorite ± talc shear 30° CA, <1% pyrite blebs to 3 mm, with silicified medium-grained basalt ~ 12.0-13.0; folia 30-180° CA, <1% pyrite, weak silicified zone	75302	6.40	7.40	1.00	TRACE
13.0	23.9	Massive fine-grained basalt/medium-grained basalt (2a,c) - Mafic flow(s), fine-grained, minor medium-grained basalt zones, massive, as above; 16.6-18.3; 70% white fine-grained, silicified, CA 40° to crenulated/swirled 1-2% sulphides: pyrite blebs to 1 cm, disseminated pyrite in folia, rare very fine-grained pyrite in 2 mm cubes, very fine-grained brown-red sphalerite(?), disseminated and in folia 21.4-21.5; hematite (altered), 1% disseminated to 2 mm and	75303 75304 75305	16.00 17.00 18.00	17.00 18.00 19.00	1.00 1.00 1.00	TRACE TRACE TRACE

CLARK-EVELEIGH CONSULTING

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		fractures, red-orange-brown					
23.9	43.8	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, massive, dark green-black, non-magnetic, rare sulphides.	75306	39.20	40.20	1.00	TRACE
		27.2; silicified (white) shear 2 cm wide, 60° CA, weak hematite on slips 25.5, 29.8, 31.1, 32.5, 36.0: clots/swirls, silicified, white, fine-grained, rare pyrite specks 35m + CA 30-40° (carbonate scattered seams) 37.3-37.4; silicified, fine-grained white and clots massive fine-grained basalt, rare pyrite, upper contact CA 25°, lower contact CA 80°, minor silicifed above and below section 39.3-40.1; strong schistosity, CA 50-60°, very fine-grained white silicified þ carbonate, pervasive and folia rare pyrite blebs to 2 mm					
43.8	47.0	Medium-grained basalt/Coarse-grained basalt (2c, h) - Mafic flow(s), medium-grained, minor coarse-grained, upper contact feathered 50° CA. As massive fine-grained basalt coarser, massive text. Rare pyrite disseminated þ blebs.					
		43.8-46.1; coarse-grained section					
47.0	61.45	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as other massive fine-grained basalt/medium-grained basalt, 1-2 mm	75307	58.50	59.50	1.00	TRACE

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		carbonate ± white quartz, various angles, rare pyrite specks, weak folia 35° CA					
		49.0-49.2; silicified and white quartz clots in folia (49.1-49.2) <1% pyrite specks 40° CA, fine-grained white quartz carbonate seams and patches: 50.3, 52.55 (20° CA, 2 cm); 58.5-59.1, strong folia, 35° CA; 58.85-59.9 white silicified folia, minor hematite on some folia 60.0-61.45; folia stronger, 40° CA 60.3; magnetic					
61.45	63.5	Talc-carbonate schist-komatitic flow (1a) - Ultramafic flow(s) (Komatite?), talc-carbonate/chlotite schist, magnetic, soft, black-blue-black, 30-40% carbonate folia, crenulated and ptygmatic carbonate seams, veinlets, upper contact 45° CA folia, rare pyrite	75308	61.00	62.00	1.00	TRACE
			75309	62.00	63.00	1.00	TRACE
		61.95-62.0; white quartz vein					
63.5	227.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained as others, strong folia 40° CA: 63.5-64.9, magnetic to 63.9; 5-10% fine-grained pyrite disseminated/clots over few cm: 64.2, 64.35, 64.45, 64.65-64.75, 65.5	75310	63.00	64.00	1.00	TRACE
			75311	64.00	65.00	1.00	TRACE
			75312	65.00	66.00	1.00	30
			75313	66.00	67.00	1.00	40
			75314	67.00	68.00	1.00	20
		67.5-~71.0; moderate silicified	75315	68.00	69.00	1.00	10
		67.9-68.2; strong fine-grained white silicified	75316	83.00	84.00	1.00	115
		68.2-68.6; 3-5% pyrite folia and disseminated	75317	84.00	85.00	1.00	15
		71.5; magnetic in part	75318	85.00	86.00	1.00	90

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		83.65-84.1; fine-grained white silicified and pyrite, disseminated	75319	92.00	93.00	1.00	25
		to 3% 50° CA	75320	95.00	96.00	1.00	10
		85.2-85.4; very fine-grained white silicified + 5% fine-grained	75322	127.50	128.50	1.00	25
		pyrite folia, disseminated +	75323	132.00	133.00	1.00	30
		87.7-87.9; silicified + 2% fine-grained pyrite	75324	133.00	134.00	1.00	70
		92.5-92.7; very fine-grained grey silicified + 10% pyrite seams,	75325	134.00	135.00	1.00	20
		disseminated	75326	135.00	136.00	1.00	15
		94.95-95.8; silicified + very fine-grained pyrite (to 1%)	75327	136.00	137.00	1.00	10
		disseminated and seams, 20% quartz-carbonate seams, rare	75328	137.00	138.00	1.00	5
		molybdenite and biotite seams, white quartz-feldspar coarse-	75329	138.00	139.00	1.00	10
		grained (to 2 cm) 35° CA, upper and lower contacts, strong	75330	139.00	140.00	1.00	5
		folia, quartz-carbonate seams, rare pyrite: 98.3, 99.2, 99.5,	75331	140.00	141.00	1.00	20
		100.0	75332	141.00	142.00	1.00	5
		100.0- ~ 5-10% carbonate quartz various angles seams/	75333	142.00	143.00	1.00	TRACE
		fractures moderate silicified alteration	75334	143.00	144.00	1.00	TRACE
		107.55; 5 mm very fine-grained brown biotite in folia, 50° CA	75335	144.00	145.20	1.20	5
		107.6-109.0; very fine-grained massive fine-grained basalt,	75336	145.20	146.40	1.20	200
		silicified, sparse quartz vein fractures	75337	146.40	147.00	0.60	10
		110.05-110.1; 1% pyrite, chalocpyrite, pyrrhotite seams,	75338	147.00	148.10	1.10	90
		disseminated	75339	148.10	149.10	1.00	20
		110.1-110.5; 40% white fine-grained silicified	75340	149.10	150.10	1.00	35
		112.6; crenulated open folded folia	75342	150.10	150.90	0.80	10
		118.3-118.5; fault-chlorite seams, blocky core, upper contact	75343	150.90	151.85	0.95	60
		30° CA	75344	151.85	152.30	0.45	70
		127.85-128.95; 10% pyrite seams, pyrrhotite seams	75345	152.30	152.85	0.55	175
		130.4; 5-fold, 4 cm amphibole, axial plane 70° CA, white,	75346	152.85	153.55	0.70	25
		fine-grained, carbonate þ silicified	75347	153.55	154.60	1.05	15
		130; - carbonate ± silicified veinlets to 10%, moderate-strong	75348	154.60	155.00	0.40	30

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		foliation 50-60 CA, <1% scattered fine-grained pyrite	75349	155.00	155.95	0.95	5
		131.75-132.6; patchy medium-grained basalt/massive fine-	75350	155.95	156.65	0.70	TRACE
		grained basalt	75351	156.65	157.20	0.55	20
		132.6-132.85; strong silicified, fine-grained white to very fine-	75352	157.20	158.20	1.00	10
		grained grey pyrite blebs, disseminated to 5% locally	75353	158.20	159.20	1.00	70
		132.95-133.4 & 133.6-133.9; strong silicified massive fine-	75354	159.20	160.15	0.95	30
		grained basalt and very fine grained white silicified pyrite	75355	160.15	160.85	0.70	20
		þ chalcopyrite, pyrrhotite > 10% section, disseminated to	75356	160.85	161.65	0.80	15
		large (2 cm) clots	75357	161.65	162.65	1.00	110
		133.9- ~ 135.7; strong silicified and folia, 50-60° CA	75358	162.65	163.50	0.85	15
		135.7-136.0; as 133.4 + disseminated pyrite and blebs to 1%	75359	163.50	164.50	1.00	15
		136.0-136.28; quartz-feldspar vein(?), upper contact 30° CA,	75360	164.50	165.20	0.70	20
		lower contact 70° CA	75362	165.20	165.80	0.60	15
		136.7-136.9; downhole increase pyrite 1% - 10% fine-grained	75363	165.80	166.75	0.95	10
		folia lattice, disseminated, silicified, weak folia	75364	166.75	167.55	0.80	280
		137.0- ~ 139.4; ± strong silicified zones, strong folia, 60° CA,	75365	167.55	168.50	0.95	TRACE
		rare pyrite, local pyrite folia, blebs to 1%, carbonate fractures	75366	168.50	169.20	0.70	TRACE
		~ 5% of section	75367	169.20	170.10	0.90	TRACE
		139.05-139.1; white quartz vein, <1% pyrite at lower contact	75368	170.10	171.05	0.95	15
		~ 139.4-141.7; strong silicified in foliated to very fine-grained	75369	171.05	171.65	0.60	60
		grey, massive fine-grained basalt	75370	171.65	172.30	0.65	TRACE
		141.7; crenulated folia and strong silicified increase downhole,	75371	172.30	173.10	0.80	10
		very fine-grained brown biotite ~ 30+%, 142.6-143.0, pyrite	75372	173.10	173.35	0.25	5
		<1% in folia, some local to 2%	75373	176.00	177.00	1.00	195
		145.3-145.35; white-clear, coarse-grained quartz vein upper	75374	177.00	177.40	0.40	50
		contact 60 , lower contact 50° CA	75375	177.40	177.90	0.50	135
		~ 145.2; very strong silicified, folia, pyrite, pyrrhotite, folia	75376	177.90	179.00	1.10	525
		and disseminated 5% section, locally 20%	75377	179.90	180.40	0.50	160

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

FROM	TO	LITHOLOGICAL DESCRIPTION
		146.4-147.0; as previous but moderate silicified, pyrite, pyrrhotite, trace <2%
		147.0-150.4; intense calcite alteration, 40 - 60% massive, swirlex, pseudo breccia, folia, few knots very fine-grained grey silicified (e.g. 149.15), pyrite, pyrrhotite in carbonate 2-5% blebs, disseminated folia
		150.4-150.8; fine-grained carbonate and very fine-grained brown ankerite (carbonate) ~ 10% in grey-green massive fine-grained basalt, fine folia, 60° CA
		150.8-151.85; strong and moderate silicified + 30% carbonate alteration (as 147.0), brown and grey-green folia (ankerite/ biotite) <2% pyrite, rare chalcopyrite
		151.85-152.3; very fine-grained grey-green (as 150.4), ankerite and pyrite, pyrrhotite, very fine-grained disseminated ~ 3+%
		152.3-152.85; strong silicified, minor carbonate alteration patches, very fine-grained white-grey massive, folia and patchy silicified pyrite, pyrrhotite 10% in section, very fine-grained folia and blebs
		152.85; gradual variations in silicifed alteration, intensity reflected in sampling
		152.85-153.55; moderate silicified, <10% carbonate veinlets, ~ 1% pyrite
		153.55-154.6; strong silicified, very fine-grained massive fine-grained basalt ~ 1% pyrite
		153.7-153.8; white very fine-grained and massive fine-grained basalt, strong folia 65° CA ~1% pyrite throughout, ± very fine-grained biotite/sericite(?)
		154.6; shear 10° CA

ASSAYS				
SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
75378	181.70	182.20	0.50	410
75379	183.50	183.95	0.45	160
75380	183.95	184.40	0.45	15
75382	184.40	185.00	0.60	395
75383	186.40	186.90	0.50	190
75384	186.90	187.40	0.50	750
75385	187.40	187.70	0.30	30
75386	187.70	188.35	0.65	10
75387	188.35	188.85	0.50	10
75388	188.85	189.10	0.25	25
75389	189.10	189.75	0.65	95
75390	189.75	190.30	0.55	35
75391	192.20	192.70	0.50	5
75392	192.70	193.10	0.40	225
75393	196.30	196.80	0.50	15
75394	196.80	197.30	0.50	130
75395	197.30	197.90	0.60	35
75396	197.90	198.40	0.50	45
75397	198.40	199.05	0.65	105
75398	204.50	205.30	0.80	775
75399	205.30	205.80	0.50	35
75400	207.60	208.10	0.50	25
75402	208.10	208.50	0.40	60
75403	208.50	209.00	0.50	10
75404	209.00	209.50	0.50	20
75405	209.50	210.20	0.70	75
75406	210.20	210.70	0.50	95
75407	210.70	211.70	1.00	55

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-06

FROM	TO	LITHOLOGICAL DESCRIPTION
		154.5-155.95; moderate silicified, pyrite <1%
		155.8; quartz carbonate vein 55° CA
		155.95-156.65; strong silicified, moderate folia 60° CA
		156.65-158.2; moderate silicified ~3% carbonate veinlets <1% pyrite
		158.2-159.0; strong silicified, 10-20% calcite, folia 55° CA pyrite, pyrrhotite, 5-10% rare chalcopyrite
		159.0-159.95; strong silicified grey-green pyrite, pyrrhotite to 5% magnetic (>very fine-grained pyrrhotite?) disseminated and clots
		160.15-161.5; moderate silicified, strong folia, very fine-grained biotite-chlorite, <1% pyrite
		160.8-160.9; silicate carbonate > 70%
		161.5-162.65; strong silicate + ~ 20% carbonate zones and stringers, folia; 50-60° CA, white-grey silicified 161.8, 162.05-162.2 with pyrite, pyrrhotite to 20%, coarse-grained white quartz vein clot and pyrite, pyrrhotite blebs and rare chalcopyrite speck @ 162.0, total sulphides in section ~ 10%+.
		162.65-165.8; moderate silicified, pyrite, pyrrhotite, minor chalcopyrite to 1% disseminated and blebs, folia 60-40° CA, silicified altered blebs to 5 mm, 163.7-163.9 & 64.5-164.9, ~ 5% carbonate
		165.8-166.75; strong silicified, 5-10% carbonate folia, fractures, 1-2% very fine-grained pyrite disseminated and minor folia, weak folia 40° CA
		166.75-167.55; very strong silicified, upper contact 50° CA, lower contact 45° CA, some carbonate flattening to ~ 20 , 20% + pyrite, pyrrhotite, chalcopyrite in wavy folia and very

ASSAYS				
SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
75408	212.00	212.45	0.45	15
75409	212.45	212.90	0.45	90
75410	212.90	213.40	0.50	15
75411	214.20	214.60	0.40	15
75412	216.60	217.40	0.80	50
75413	217.40	218.20	0.80	10
75414	218.20	218.85	0.65	35
75415	218.85	219.30	0.45	15
75416	219.30	220.20	0.90	15
75417	220.20	221.00	0.80	25
75418	221.00	221.50	0.50	100
75419	221.50	222.50	1.00	30
75420	222.50	223.10	0.60	20
75422	223.10	223.50	0.40	150
75423	223.50	224.50	1.00	35

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		fine-grained disseminated and minor clots, very fine-grained brown biotite ± sphalerite? (Rare), very fine-grained white quartz-carbonate clots/veins @ 166.95 & 167.4.					
		167.55-171.05; strong silicified, very fine-grained black-grey, rare pyrite blebs, 35° CA in foliated upper part, massive in lower section, to 1% pyrite in upper part					
		171.05-171.65; strong silicified, magnetic, moderate folia, 50° CA, rare fine-grained pyrite					
		171.65-172.3; moderate silicified to 1% disseminated pyrite					
		172.3-173.35; strong silicified, very fine-grained disseminated pyrite (<1%)					
		173.1-173.35; 30 pyrite, pyrrhotite, in folia, large blebs, 30 carbonate, sharp wavy upper and lower contacts					
		173.35-174.0; moderate-strong silicified, carbonate ~ 10%, very fine-grained, pyrite <1%, slightly magnetic in part					
		174.0-176.0; carbonate ~ 30% numerous zones foliz + >40% carbonate in very fine-grained biotite (± ankerite?) 50° CA					
		176.0-177.4; as 174, carbonate and biotite ~ 50-60% folia,					
		176.35-176.45; 50° CA, very fine-grained white strong silicified					
		177.4-177.9; strong silicified (2 zones) carbonate between, total silicified ~ 0.3, pyrite, pyrrhotite ~ 30%					
		177.9-179.05; as above, silicified + 1% pyrite					
		178.05-178.3; silicified + 1% pyrite					
		178.65-178.85; silicified + 20% pyrite, pyrrhotite folia and patches					
		179.05-182.8; very fine-grained dark grey-green, carbonate folia 5%-20% strong silicified, disseminated pyrite blebs on folia ~ 1%					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		180.0-180.2; very fine-grained clots 20% pyrite, pyrrhotite, white very fine-grained silicified folia 181.8-182.0; very strong silicified, white folia, 20-30% pyrite, pyrrhotite folia 60° CA 182.4-182.8; minor medium-grained basalt ± massive fine-grained basalt, 5% carbonate alteration 182.8-183.95; grey-grey, very fine-grained, moderate silicifed 55° CA, very fine-grained biotite + carbonate, >10%, very fine-grained pyrite 1% disseminated 183.65-183.8; strong silicified, 10% pyrite, blebs and biotite 183.95-185.0; very strong silicified, very fine-grained white-grey, low angle and swirled, wavy folia, very fine-grained disseminated and clots pyrite, pyrrhotite, 5-20%, very fine-grained brown biotite 185.0-186.2; moderate silicified, very fine-grained, massive to foliated 60° CA ~ 3% carbonate fractured/folia, very fine-grained biotite and 1% disseminated pyrite 186.2-186.9; as above, 15-20% carbonate 186.9-187.4; very strong silicified, white 30% pyrite, pyrrhotite in folia and very fine-grained disseminated 60° CA. 187.7; broken contact - uphole: 60° CA folia, downhole: wavy very fine-grained white-grey silicified to 5 mm wide, CA ~ 170 -180° contact apparent CA = 90° 187.7-188.35; very strong silicified, wavy lenses as noted above, very fine-grained disseminated pyrite, minor pyrrhotite, to 5% locally 188.35-192.45; very fine-grained, 1% pyrite disseminated and folia, few blebs, ~ 5° CA					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		188.85-189.1; very strong silicified, white, very fine-grained, silicified, disseminated and blebs pyrite, pyrrhotite to 5%					
		189.35-189.75; as above, 50° CA, pyrite, pyrrhotite 5-10%					
		190.5-191.0; carbonate 30% white folia					
		191.15, 191.5 & 192.05; pyrite, pyrrhotite blebs in thin section vein					
		192.45-192.7; very fine-grained/fine-grained carbonate and biotite disseminated, brown < 1% pyrite disseminated, 60° CA					
		192.7-193.1; very strong silicified, very fine-grained, white, 1-3% very fine-grained pyrite, pyrrhotite disseminated in folia					
		193.1-200.0; very fine-grained, strong carbonate/biotite altered 30-40% carbonate folia white-grey-brown to 1% pyrite disseminated and small blebs 50° CA					
		196.8-197.3; very small silicified, very fine-grained white, very fine-grained pyrite, pyrrhotite, chalcopyrite disseminated blebs 10-15%					
		198.4-199.05; as above, 5-10% pyrite, minor pyrrhotite, disseminated, thin folia					
		200.0; very fine-grained black-greenish-black, massive-weakly foliated, pyrite <1% in section, fine-grained disseminated and blebs, non-magnetic					
		203-205.0; numerous1 mm carbonate seams ~ 1 cm spacing, quartz vein fine-grained + 1% pyrite x 2 cm wide: 202.2, 202.3 & 203.7					
		200.5-201.0; 180° CA and broken core, slip surfaces fault (<1 m core length)					
		204.5-209.9; Spilled Core (Box 36)					
		204.5-205.3; strong silicified, 1-3% pyrite, pyrrhotite,					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		disseminated and folia, very fine-grained white silicified folia ~ 10% section 205.3; as 200.0, carbonate <5% in thin folia and fractures 208.1-208.5; very strong silicified, massive very fine-grained white in folia, 10-20% pyrite, pyrrhotite clots 2 cm patch green altered massive fine-grained basalt (not silicified) 209.5-210.2; very strong silicified, 10-20% pyrite, pyrrhotite, chalcopyrite, folia, clots, very fine-grained white 210.2-210.7; very strong silicified and very fine-grained biotite, 10-20% pyrite pyrrhotite as blebs, clots and very fine-grained dissémianted 210.7-215.0; very fine-grained, fine-grained black-greenish/ black to 1% pyrite, disseminated, rare blebs, to moderate silicified 213.7 fault? 5 cm broken core, chlorite slips 212.0-212.5; thin calcite seams 70° CA 212.45-212.9; very strong silicified; 10-20% pyrite, pyrrhotite, very fine-grained + clots + blebs 214.2-214.6; strong silicified, 1-2% fine-grained pyrite, pyrrhotite 215.0-216.75; very fine-grained magnetic (very fine-grained pyrrhotite?) 1-2% pyrite, pyrrhotite, rare chalcopyrite, moderate-strong silicified, calcite <5% 216.75-217.4; very strong silicified to 5% pyrite, pyrrhotite, very fine-grained disseminated weak folia 50° CA 218.2-218.85; very strong silicified, very fine-grained grey-white 10-20% pyrite, pyrrhotite, minor chalcopyrite clots, folia, and very fine-grained disseminated					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)

219.0-227.0; strong-very strong silicified very fine-grained grey-white - black-green pyrite, pyrrhotite þ chalcopyrite folia blebs, clots and very fine-grained disseminated ~ 2-5% total sectoin
221.0-212.2; ~ 20% total pyrite, pyrrhotite, chalcopyrite in folia
222.1-222.75; + calcite altered, thin folia, > 20%
223.1-223.5; pyrite, molybdenite ~ 2-10% total sectionn + ~ 3%, very fine-grained dissemianted, blebs (pyrite) and seams (molybdenite)
224.5-225.0; white quartz, pyrite, pyrrhotite seams, blebs, lattice to 10%, wavy folia to 160° CA

End of Hole (EOH)

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
75.00	-44.00	0.00
150.00	-43.00	0.00
225.00	-41.00	0.00
227.00	-41.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-07

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3030.0 (9941.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 11/96	March 12/96	March 14/96	E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**			
Lingman Lake	March 14/96		1209564	101.0	-45°	
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core racks	3200.0E, 2942.0N (10500.0'E, 9652.0'N)	125.0	BQ			
Location:						
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-07
Collar Eastings: 3201.20
Collar Northings: 2942.07
Collar Elevation: 3030.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 125.00 metres

Logged by: E.Frey
Date: 04/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
0	26.3	Overburden (Ovb)					
26.3	39.03	Talc-carbonate schist-komatitic flow (1a) - Ultramafic flow(s), black to dark grey-blue-black, soft (3-4), chlorite-talc-(alteration) Schist. Calcite > 30% - numerous closely spaced seams; minor pyrite on 45° CA folia. Non-magnetic. 33.8-34.2; fault, broken core 34.2-35.6; magnetic, 50° CA 35.85; fault? Intense folia slips 37.4-38.35; harder, less chlorite, talc alteration, pyrite blebs and on folia ~ 3% 36.65, 36.75, 38.4, 38.6, 38.85; sub-rounded, lenses to 4 cm x 1 cm of quartz-feldspar tonalite therefore ultramafic unit is younger probably a flow(s)	75426	38.00	39.03	1.03	5
39.03	46.85	Tonalite quartz-feldspar porphyry (7a) - Intermediate-felsic intrusive: tonalite quartz-feldspar porphyry, silicified. 39.03; 70° CA, upper (sheared) contact, pyrite folia, tonalite - medium grey, equigranular quartz-feldspar, 2mm-5mm (some quartz), very fine-grained biotite(?), chlorite specks, <1% pyrite specks disseminated, rare pyrite blebs to 3 mm, massive texture, rare ~ 60° CA slips	75427 75428	39.03 46.02	39.50 46.85	0.47 0.83	5 10

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-07

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		40.9-41.05; massive fine-grained basalt (mafic flow) xenolith(?), lower contact ~ 40° CA					
		40.05-46.02; light grey - increasingly quartz phyric downhole, grey-clear quartz 3-7 mm, >15% disseminated, quartz eyes, equant 60° CA					
		43.7- ~44.2; pale white-grey bleached, some broken core, fault(?), rare pyrite on seams					
		46.02-46.85; bleached and strongly foliated 50° CA, grey quartz eyes, rounded-ovoid, > 30% "QEP", upper contact 50° CA, lower contact white 70° CA, rare pyrite blebs, 3 mm grey quartz in folia, < 1%					
46.85	48.0	Quartz vein (qv) - Amorphous dark grey, quartz vein? Upper contact, white, 70° CA, lower contact sharp, 60° CA.	75429	46.85	48.00	1.15	TRACE
48.0	54.8	Tonalite quartz-feldspar porphyry (7a) - tonalite - QEP ± QFP as previous.	75430	48.00	49.00	1.00	TRACE
			75431	51.65	52.65	1.00	10
		48.0-48.05; bleached contact zone, 30° CA lower contact (Crosses 40° CA weak folia)	75432	52.65	53.00	0.35	145
			75433	53.00	53.50	0.50	200
		48.05-49.25; medium grey, foliated pyrite blebs to 1%	75434	53.50	53.90	0.40	30
			75435	53.90	54.80	0.90	75
		49.25-52.5; patchy pale-grey-white bleaching, pyrite blebs <1%					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-07

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH Au (ppb)
		weak folia 60° CA				
		52.5-52.65; intense bleaching, strong folia, quartz eyes 3 mm, 2-3 mm wide folia quartz veins and pyrite, molybdenite(?) Disseminated <1%, sharp upper contact veinlet 50° CA				
		52.65-55.5; silicified shear zone, strong silicification pervasive, sheared textures preserved				
		52.65-52.8; upper contact 65° CA, lower contact 60° CA, coarse-grained matrix, carbonate, irregular seams, grain boundaries, pyrite 5% blebs and lattice, chlorite slips				
		52.8-53.0; weakly folia, pseudo breccia, slivers/lenses quartz silicified tonalite quartz-feldspar porphyry, to 5% pyrite very fine-grained disseminated, folia, blebs, minor chlorite slips				
		53.0-53.5; more intensely sheared than above. 20% green mica (fuchsite ±) as slivers/lenses/folia/specks, 1-2% molybdenite(?) As slivers/folia. 3-5% pyrite very fine-grained disseminated + stringers/blebs				
		53.5-53.7; sillicified/brecciated tonalite quartz-feldspar porphyry, grey-green-white quartz flooded into weak folia 60° CA, + carbonate alteration to 10%, wavy, irregular chlorite(?) veinlets along core axis, 1% pyrite disseminated				
		53.7-53.9; upper contact 40° CA, strong folia 50° CA, 40-50%				

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		thin carbonate (calcite) folia seams bounded by dark green-black chlorite seams, 1-2% pyrite disseminated					
		53.9-54.15; grey, pale grey quartz vein, partly brecciated, angular/sub-angular fragments to 2 cm, calcite 20-40%, 1% pyrite disseminated to 3 mm					
		54.15-54.8; dark grey, foliated, pseudo-breccia, quartz vein, lenses, slivers, pyrite also as very fine-grained disseminated, pyrite ~ 2% and 5% (locally), molybdenite(?) seams, disseminated <1%, 50° CA, weak calcite alteration, 1-2 mm wispy sericite(?) - ~ 2%					
54.8	66.4	Massive fine-grained basalt (2a) - Mafic flow(s)	75436	54.80	55.30	0.50	95
			75437	55.30	56.00	0.70	30
		54.8-55.5; sheared massive fine-grained basalt, tapered augens 5x2 cm, strong folia 65° CA, flattened chloritoid in massive/ sheared/ massive fine-grained basalt, pyrite disseminated, folia lenses 5% total, thin molybdenite(?) seams <1%, chlorite seams ~ 10% carbonate alteration, 1-2 mm long, wisp sericite(?) ~ 2%	75438	56.00	56.50	0.50	TRACE
			75439	61.50	62.30	0.80	10
		55.5-56.0; strong silicified, dark grey-black, strong folia ~10% pyrite very fine-grained, disseminated, folia and thin stringers irregularly across folia, 70° CA, strong calcite (folia)					
		56.0-61.5; strong calcite, moderate silicified > 30-40%, strong folia, 60° CA, chlorite seams, black, black-green, very fine-					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
		grained pyrite 1% disseminated, rare blebs to 1 cm faults(?) gouge zones 3 mm-1cm wide, talc-chlorite 56.55, 56.59, 56.9, 57.02					
		61.5-62.3; as above, moderate silicified, weakly magnetic, pyrite folia, blebs, fine-grained disseminated + ~1%					
		62.3-66.3; strong silicified, folia dark grey, weakly bleached (± sericite) zones to 0.3 & 64.25-64.9; pyrite ~ 1% disseminated blebs, minor very fine-grained disseminated					
66.4	68.8	Tonalite quartz-feldspar porphyry (7a) - Strong silicified and sheared, quartz eye schist, mainly sericitic (pale yellow-brown), quartz eyes to 5x7 mm, equant to sub-rounded, and tapered grey quartz and quartz-carbonate veinlets and lenses 30% ± along folia (60° CA), thin dark grey-brown folia ± molybdenite(?), pyrite to 1%, disseminated to 2 mm.	75440	66.40	67.40	1.00	30
			75442	67.40	68.40	1.00	15
			75443	68.40	68.80	0.40	TRACE
		66.4-66.6; very fine-grained quartz eyes, sericite, strongly sheared, 10% quartz lenses					
68.8	117.1	Massive fine-grained basalt (2a) - Mafic flow(s) - fine-grained, upper contact 60° CA.	75444	68.80	69.80	1.00	60
			75445	69.80	70.90	1.10	50
			75446	70.90	71.70	0.80	20
		68.8-71.85; moderate silicified, strong calcite alteration, (>50% carbonate), pale green-grey to black, sheared into very fine-grained, lenses þ chlorite slips, pseudo fragmental in part 69.0-70.0; 13 very fine-grained white quartz veinlets ~ 6-10 cm	75447	71.70	72.50	0.80	20
			75448	74.55	75.70	1.15	TRACE
			75449	85.50	86.00	0.50	TRACE
			75450	87.50	88.15	0.65	TRACE

FROM	TO	LITHOLOGICAL DESCRIPTION
		spacing x 2-5mm wide, 70° CA (cutting 60° CA folia)
		70.8-70.9; crenulated folia
		70.9-71.7; fault- broken/sheared core, talc-chlorite slips on fragments
		71.7-73.1; as 69.0, quartz veinlets rare, rare pyrite lenses, 3 mm x 2 cm in folia, calcite alteration very weak - absent, strong silicified dark green-black
		73.1-74.55; green-black, moderate-strong silicified, fine-grained folia 60° CA, rare 3 mm high CA quartz veins
		74.55-75.7; silicified moderate-strong, shear zone, folia strong, calcite strong, quartz vein: 74.9-75.0, 75.2-75.3, pyrite rare specks, rare hematite in lower quartz vein
		75.7; dark green-black, black-grey-green, fine-grained, very fine-grained, massive, fine pitting - (chlorite alteration), minor chlorite folia strong-moderate, silicified, rare carbonate, weak (overall) folia 50° CA
		85.7-85.75; silicified, calcite (shear?), pyrite, pyrrhotite blebs to 10%
		87.5-88.15; as above, upper contact 30° CA, 40° CA lower contact, pyrite (minor pyrrhotite) 1% blebs

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au (ppb)
75451	97.50	98.00	0.50	TRACE
75452	114.00	114.50	0.50	TRACE
75453	114.50	115.00	0.50	25
75454	115.00	116.00	1.00	40
75455	116.00	116.70	0.70	10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)

97.1-98.6; moderate-strong calcite alteration, disseminated and folia, moderate-strong silica

97.75-97.85; silicfied, calcite + pyrite, chalcopyrite (to 10%) shear

97.95-98.0; pyrite, pyrrhotite to 10% blebs

103.8-104.0; patchy pale green-grey, very fine-grained -"cherty" lenses in very fine-grained very strong silicified, green-black massive fine-grained basalt (Fe ++ in silica?)

112.9-113.5; silicified foliated (weak shear?) 40° CA

114.5-116.7; very strong silicified shear zone

114.5-114.65; white dark grey, very fine-grained quartz vein upper contact 40° CA + 2 cm wide pyrite blebs, quartz fractured, chlorite(?) seams, few, all CA, lower contact = folia = 40° CA

114.65-116.7; strong folia, lenses, seams grey quartz in black, brown-black, very fine-grained silicified massive fine-grained basalt upper 4 cm 20%-30% pyrite, pyrrhotite, chalcopyrite fine-grained disseminated + folia 116.3-116.5 30% equal to pyrite, pyrrhotite, chalcopyrite locally > 50%

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au (ppb)
117.1	125.0	Diabase Dike (10) - Magnetic, medium-grained (to 3 mm), massive	75456	116.70	117.20	0.50	TRACE
		117.1-117.7; gradational upper contact (chilled margin) 1% pyrite blebs to 3 mm in lower part, zone from very fine-grained to medium-grained disbase					
		End of Hole (EOH)					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
101.00	-45.00	0.00
125.00	-45.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-08

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3030.0 (9941.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 13/96	March 13/96	March 15/96	E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**			
Lingman Lake	March 15/96		1209562	104.0	-44°	
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core racks	4024.0E, 3292.0N (13200.0'E, 10800.0'N)	104.0	BQ			
Location:						
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-08
Collar Eastings: 4024.39
Collar Northings: 3292.68
Collar Elevation: 3030.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 104.00 metres

Logged by: E.Frey
Date: 04/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
0	8.9	Overburden (Ovb)					
8.9	32.3	Massive fine-grained basalt (2a) - Mafic flow(s) - Fine-grained black to dark grey-green, massive, non-magnetic (exceptions noted), rare 2 mm carbonate or quartz seams, 10-30° CA. Silicified - strong-moderate mafic preserved, chlorite varies with shades of green-black, calcite mainly in quartz-carbonate shear (?) zones or concentrations of carbonate folia 12.95-13.1; flooding + veinlets, 25° CA 5 cm wide, grey-white quartz 16.4-17.6; fine-grained white quartz as above, 50° CA upper contact, 65° CA lower contact, both contacts sharp, minor carbonate (calcite) 21.5; quartz vein, fine-grained white, CA 40°, 2 cm wide 24.6-28.1; strong calcite alteration, weak silicified 80% foliated, 60° CA 25.1-25.3; quartz-carbonate vein, sharp upper contact 35° CA, fine-grained quartz vein, massive fine-grained basalt					

CLARK-EVELEIGH CONSULTING

PROPERTY: LINGMAN LAKE
HOLE No.: 96-08

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		27.0-27.5; crenulated folia to chaotic CA , axial CA 80°, very fine-grained biotite-carbonate					
		29.8-29.9; quartz vein, grey quartz, white fine-grained calcite 15° CA, 3 cm wide					
		30.4-40.6; quartz vein as above, upper contact 15° CA, 3 cm					
		31.35-31.4, 31.8-31.9; quartz-carbonate vein, shear, 5 mm quartz vein +sheared massive fine-grained basalt, 60° & 50° CA					
32.3	34.75	Medium-grained basalt/massive fine-grained basalt (2a,c) - Mafic flow(s), medium-grained/fine-grained (<10% section) massive					
34.75	50.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained moderate-strong silicified, as 8.9	75457	44.10	44.60	0.50	90
		35.9, 36.1 quartz vein, as 29.8, 2 & 4 cm wide	75458	44.60	45.10	0.50	20
		38.0, 38.2 quartz vein, as 29.8, biotite clot @ 38.3	75459	45.10	45.60	0.50	TRACE
		38.7-39.4; strong carbonate (calcite) & folia, 50° CA, quartz in center	75460	48.40	49.50	1.10	15
		43.6-44.6; strong carbonate, fine-grained + folia	75462	49.50	50.00	0.50	10
		44.6-45.1; strong silicified, black to black-brown, weak folia ~ to 5% pyrite, pyrrhotite(?) folia, and very fine-grained disseminated, 60° CA					
		46.85-47.0; strong silicified, 25 mm white, very fine-grained					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		quartz centre, 65° CA, no(?) sulphides 48.4-48.7; strong silicified, sharp lower contact 70° CA, minor pyrite on chlorite seams 48.7-49.5; moderate-strong calcite, moderate silicified ~ 5% pyrite, pyrrhotite, blebs on chlorite seams in upper part and fine-grained disseminated and folia throughout, >20% very fine-grained brown-black biotite 49.5-50.0; strong silicified, weak folia 40-50° CA, lower 30 cm wispy, open lattice "pseudobreccia" of fine-grained quartz-carbonate, pyrite and minor chalcopyrite 10-15% disseminated and blebs					
50.0	55.6	Massive fine-grained basalt/Graphitic units (2a, 5c) - Mafic flow(s), (95%) + several graphite lenses/zones (5% of section), massive fine-grained basalt dark grey, moderate silicified, very fine-grained quartz-feldspar + >20% very fine-grained brown-black biotite. Texture is massive, without apparent suggestion of sediment. Layering, relict structures, etc., biotite content is significant. Pyrite and minor chalcopyrite on chlorite slips (various CAs) and fine-grained/very fine-grained disseminated, ~ to 5% throughout section (in massive fine-grained basalt), strong. Silicified 50.85-51.25 + 10% pyrite folia blebs Graphite very fine-grained massive form in thin to 10 cm+ units, broken by massive fine-grained basalt slivers/lenses, CA 60-80°, very fine-grained biotite + pyrite ~ 10% disseminated, minor pyrite blebs on folia slips, strongly siliceous	75463	50.00	51.00	1.00	10
			75464	51.00	51.40	0.40	10
			75465	51.40	52.50	1.10	TRACE
			75466	52.50	53.00	0.50	10
			75467	53.00	54.00	1.00	5
			75468	54.00	55.00	1.00	5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		Concentrations: 50.0-50.2, 50.6-50.85, 51.25-51.35, 52.55-52.65, 52.9-53.2, 53.8-54.25, 54.79-54.81, 54.95-55.0, 55.2-55.6					
55.6	70.1	Massive fine-grained basalt (2a) - Mafic flow, fine-grained as earlier	75469	55.00	56.00	1.00	10
		55.6-56.0; calcite alteration strong 56.1-57.2; calcite alteration strong 57.45-57.55; very strong silicified, white fine-grained silicified, 70° CA upper and lower contacts 58.0-59.7; calcite alteration strong, 60° CA 60.2-61.1, calcite alteration strong 63.25; pyrite blebs (local only) 64.4-64.6; white quartz veinlets 69.4-70.1; 20% white fine-grained quartz veinlets veins to 3 cm wide, ~ 5% carbonate alteration. < 1% pyrite, small blebs on folia weak, 50-60° CA					
70.1	71.4	Massive fine-grained basalt/medium-grained basalt (2a,c) - Mafic flow(s), fine-grained (~30%)/medium-grained (70%)					
71.4	74.3	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained as earlier.					
		71.0-71.4; 1% pyrite, pyrrhotite (minor), wispy & folia 72.95-73.15; 30% quartz veinlets 40-60° CA					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	ASSAYS TO	ASSAYS WIDTH	ASSAYS Au(ppb)
74.3	74.85	Massive fine-grained basalt/medium-grained basalt (2a,c) - Mafic flow(s), fine-grained (~30%)/medium-grained (70%) 74.3-74.6; upper contact 90° CA, lower contact 30° CA, grey-white, fine-grained quartz-carb					
74.85	104.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained 76.4-77.0; 20% thin quartz vein 77.3-80.3; moderate-strong calcite alteration, folia, disseminated few veinlets 95.5-~98.5; 20-30% strong calcite alteration, folia and veinlets End of Hole (EOH)					

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
104.00	-44.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-09

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3030.0 (9941.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 13/96	March 14/96	March 15/96	E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	99.0	-43°	
Lingman Lake	March 15/96		1209562			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core racks	4040.0E, 3101.0N (13250.0'E, 10174.0'N)	99.0	BQ			
Location:						
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-09
Collar Eastings: 4039.60
Collar Northings: 3100.90
Collar Elevation: 3030.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 99.00 metres

Logged by: E.Frey
Date: 04/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
0	17.9	Overburden (Ovb)					
17.9	20.45	Massive fine-grained basalt (2a) - Mafic flow(s), very fine-grained black, dark green-black, weak folia 60° CA, non-magnetic, weak-moderately silicified, chlorite slips common, specks pyrite disseminated (<< 1%) Fault 19.2--119.4; numerous chlorite>talc slips, broken core: fault					
20.45	27.95	Monzonite feldspar porphyry (7b) - Felsic intermediate/intrusive, upper contact 55° CA fine-grained, colour index ~ 50, light grey, undeformed parts grey-feldspar phyric, anhedral feldspar clots to 3 mm (~ 20% volume). These are flattened (1+5 mm) into weak folia (70° CA) in deformed upper section: 20.45 - 22.7, moderately-strongly silicified. 22.7-25.3; undeformed central section, fine-grained/very fine-grained, lower contact 15° CA 24.0-24.55; white, coarse-grained quartz vein, rare chlorite specks, lower contact trails into low CA veinlets	75470	24.00	24.55	0.55	TRACE
27.95	52.9	Massive fine-grained basalt (2a) - Mafic flow(s) (as earlier),					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-09

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		upper contact 60° CA, strongly foliated and calcite alteration (disseminated and folia), weak silicification.					
		27.95-28.6; dark green-black, finely folia and strong calcite alteration					
		28.6-32.3; black (90%) to dark green-black, fine-grained calcite folia, lenses ~ 40% section, wavy, crossing carbonate lenses, significant chlorite alteration, very minor talc, zone is non-magnetic					
		32.3; dark green silicified (weak) >carbonate alteration, fine-grained, massive, weak folia, silicified stringers in finer-grained downhole (below ~37.0), rare pyrite blebs					
		37.5-37.75; white quartz ± fine-grained calcite & folia (sheared) Contacts, upper contact 50° CA, lower contact 40° CA					
		41.0-41.6; as above, upper contact 80° CA, lower contact 60° CA					
		41.6-42.4; patchy above					
		44.1-44.7; patchy above + folia ~ 10% section					
		45.1-45.2; quartz vein (2 cm) in centre, 60° CA, quartz folia bounded					
		46.5-46.57; quartz vein, upper contact 70° CA, lower contact					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-09

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		60° CA					
		51.1-51.15; quartz vein					
		52.1-52.9; strong silicified + 30-% calcite, very fine-grained very strong silicified 52.2-52.25					
52.9	53.5	Medium-grained basalt (2c) - Mafic flow(s) - medium-grained strong silicified, very strong silicified fine-grained 53.3-53.4, calcite alteration, weak folia 65° CA					
53.15	56.15	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained as earlier, dark green					
		53.5-54.0; patchy, folia, strong calcite alteration					
		54.0-54.2; very fine-grained, very strong silicified grey, minor pyrite blebs along lower contact (65° CA)					
56.15	56.55	Medium-grained basalt (2c) - Mafic flow(s), medium-grained, strong silicification, strong calcite, weak folia, 80° CA, light grey-green					
56.55	80.4	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as earlier					
		57.0-60.0; core spilled at drill ~ 0.5 m dark green-grey black, very strong silicified - fault? - broken core ~ " section					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-09

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		60.0; very fine-grained silicified, dark grey-black-green, minor fine-grained white quartz, quartz carbonate and very strong silicified zones: 61.3, 61.45, 63.35-62.55, 62.85-62.95, 63.9, 70.0, 71.38, 72.9, 75.8, 77.25 (30° CA), 81.35, 86.0, 87.0, 87.6, 88.1, 88.5, 90.22, 90.52, 94.55-94.65, 95.9-96.05, 97.15-97.13, 97.9, 98.2, 98.7-98.8, 98.9					
		Fault? 65.3; 90° CA, 3 cm chlorite talc					
		Fault? 75.75-75.8; talc-chlorite, lower contact 40° CA Fault? 77.55; 1 cm talc-chlorite					
80.4	80.8	Medium-grained basalt (2c) - Mafic flow(s), medium-grained, as earlier, massive, weak folia 50° CA, strong silicified and carbonate					
80.8	99.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as previous 2a					
		94.1-94.8; very strong, silicified + 5 cm quartz vein, very fine-grained dark green					
		End of Hole (EOH)					

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-09

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
99.00	-43.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-10

Drilling Co.:	Exploration Co. Owner/Optionee:	Collar Elevation:	Bearing:	Dip of Hole:		Page No.:
Morissette	Echo Bay Mines	3030.0 (9941.0')	-45°			1
Date Hole Started:	**Date Hole Completed:**	**Date Log Completed:**	**Logged By:**	**Collar:**		
March 15/96	March 15/96	March 16/96	E. Frey	0.0	-45°	
Property Name:	**Date Submitted:**	**Submitted by (signature):**	**Claim #**	95.0	-44°	
Lingman Lake	March 16/96		1209562			
Storage:	**Drill Hole Location:**	**Total Meterage:**	**Core Size:**			
in core racks	4200.0E, 3055.0N (13776.0'E, 10023.0'N)	95.0	BQ			
Location:						
@ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-10
Collar Eastings: 4200.00
Collar Northings: 3055.00
Collar Elevation: 3030.00
Grid: LINGMAN

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 95.00 metres

Logged by: E.Frey
Date: 04/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION
0	11.7	Overburden (Ovb)
11.7	50.7	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained 11.7-13.2; massive, dark blue-black, weakly silicified, magnetic non-carbonated, few chlorite seams 60° CA, few wavy irregular chlorite seams, no(?) sulphides 13.2-13.7; strong silicified, fine-grained/very fine-grained, becomes dark green-black down section; magnetic, upper contact 50° CA, sharp increase chlorite alteration, no(?) sulphides 13.7-17.6; as above, but non-magnetic, upper contact 80° CA, sharp Fault? - 14.5; broken core, low CA chlorite slips 17.6-31.8; as 11.7, rare pyrite specks, small blebs 19.7; quartz-chlorite veins, 2 cm 60° CA 20.7-21.2; quartz-chlorite ± carbonate, veinlets common in weak CA folia

	ASSAYS		
SAMPLE No.	FROM	TO	WIDTH
24	0.00	0.00	0.00

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH
		21.7; low CA, wavy to chaotic quartz-chlorite ± carbonate folia & 22.6-23.0				
		26.6--31.8; increasing silicified to 26.6 then very strong silicified				
		26.4-27.8; slight chlorite increase (greening)				
		31.8-32.0; quartz-chlorite ± carbonate veinlets				
		31.8-50.7; non-magnetic, weakly magnetic, silicified, strong, some moderate				
		39.55-39.7; very strong silicified				
		Fault(?) 39.9-39.95; broken core, talc-chlorite slips				
		42.0-42.5; quartz-chlorite ± carbonate veinlets in ~ 10% folia 50° CA				
50.7	56.85	Mafic Flow - Porphyritic (2p) - Dark black-green to dark grey-green, massive very fine-grained matrix, 30-40% disseminated phenocrysts of 1-1.5 mm clots of very fine-grained white to green-white chloritic feldspar, anhedral, unit is non-magnetic, moderately-strongly siliceous, few chlorite slips				
		52.1-52.6; strong chlorite alteration, dark green, very fine-grained, chlorite slips, softer than above				

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-10

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH
		53.3-53.5; upper contact 40° CA, very strong silicified, very fine-grained light green-black				
		54.8-55.15; 5% disseminated pyrite, 1 mm specks				
		55.15-55.65; pale green/grey-green moderately chloritic, <1% sulphides on seams, pyrite blebs to 1 mm & millerite as needle clusters and long needles 1 mm long				
56.85	69.9	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as earlier, moderate-strong silicified dark green-grey, non-magnetic, massive fine-grained/very fine-grained				
		58.55-58.85; 5% carbonate fractures (thin ~ 60° CA) < 1% disseminated very fine-grained pyrite				
		59.1; chlorite-quartz ± carbonate veinlets (2 cm) 65° CA				
		Fault(?) 60-95-61.0; talc-chlorite seams, low CA, broken core				
		Fault(?) 61.7; 1 cm talc-chlorite seams/gouge 70° CA				
		62.2-67.7; weakly magnetic , slightly lighter green-black				
		67.7-68.85; non-magnetic, as above				
		68.85; magnetic				

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH
		69.9; swirled contact				
69.9	72.9	Talc-carbonate schist-komatitic flow (1a) - Ultramafic flow(s), dark blue-black, thin quartz-carbonate folia 65° CA, Numerous and clots & thin zones (2-3 cm) multi-carbonate fractures, magnetic, massive where folia weak, soft, strong talc-chlorite carbonate alteration, <1% pyrite blebs total sulphides, 50° CA lower contact Fault: 72.4-72.9; 2 cm gouge upper contact (50° CA), 5 cm gouge 72.75-72.8, rest of section intensely talc-chlorite schist broken on numerous folia slips				
72.9	86.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as earlier, non-magnetic, massive, dark-green, to green-black downhole Faults? - 74.2 & 74.5; 2 cm talc/chlorite slips plus increasing chlorite alteration downhole and colour to dark-green blue-black, chloritic <1% pyrite blebs on slips Fault 75.4-76.7; chlorite-talc shear zone, brecciated fine-grained, white quartz 75.9 & 76.5 (3-4 cm) gouge 76.0-76.0 & 76.65-76.7 Fault? 77.3; 2 cm talc-chlorite seams				

PROPERTY: LINGMAN LAKE
HOLE No.: 96-10

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH
		77.5; downhole, increasing silicification, green-black, non-magnetic				
		Fault? 82.2; 1 cm gouge, talc-chlorite folia 50° CA				
		82.2-83.0; numerous chlorite folia slips				
		85.35-85.55; very strong silicification				
86.0	87.5	Medium-grained basalt (2c) - Mafic flow(s), medium-grained (95%), as earlier 2c				
87.5	95.0	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as earlier				
		88.1; fault? 2 cm talc-chlorite seams, very fine-grained/ fine grained, strong silicification, dark green to dark grey-green, massive				
		91.15; quartz + carbonate + chlorite 1 cm veinlets				
		End of Hole (EOH)				

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
95.00	-44.00	0.00

Clark-Eveleigh Consulting
Diamond Drill Log (Header)

Hole No.: L96-11

Drilling Co.: Morissette	**Exploration Co. Owner/Optionee:** Echo Bay Mines	**Collar Elevation:** 3030.0 (9941.0')	**Bearing:** 0.0	**Dip of Hole:**		**Page No.:** 1
Date Hole Started: March 16/96	**Date Hole Completed:** March 16/96	**Date Log Completed:** March 18/96	**Logged By:** E. Frey	**Collar:** 0.0	-45°	
Property Name: Lingman Lake	**Date Submitted:** March 18/96	**Submitted by (signature):**	**Claim #** 1209562	101.0	-45°	
Storage: in core racks	**Drill Hole Location:** 3597.6E, 2710.4N (11800.0'E, 8892.0'N)	**Total Meterage:** 101.0	**Core Size:** BQ			
Location: @ camp site @ Lingman L.						

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-11
Collar Eastings: 3597.60
Collar Northings: 2710.40
Collar Elevation: 3030.00
Grid: lingman

Collar Inclination: -45.00
Grid Bearing: 0.00
Final Depth: 101.00 metres

Logged by: E.Frey
Date: 08/04/96
Down-hole Survey: acid

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
0	8.8	Overburden (Ovb)					
8.8	13.4	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, (most) to very fine-grained dark green-black, massive to weakly foliated; strong silicification, moderate carbonate alteration, pervasive + thin calcite veinlets all CA, strongly magnetic, 30-50% very fine-grained/fine-grained disseminated magnetic, grains, clots (very fine-grained), fine-grained folia concentrations and in very strong silicificed zones (associated with very fine-grained sooty, cloty to dendritic pyrolusite, pyrite abundant throughout as very fine-grained/fine-grained mostly euhedral, disseminated, disseminated in folia zones (80% over 2-5 cm), & dispensed thin, wispy lattices, pyrite >20%, folia ~ 65° CA, minor zones very strong silicification in folia & all CA 12.0; 10% hematite staining, dispersed over ~ 5 cm	75471	8.80	9.50	0.70	25
			75472	9.50	10.50	1.00	10
			75473	10.50	11.50	1.00	10
			75474	11.50	12.50	1.00	10
			75475	12.50	13.40	0.90	300
13.4	14.0	Pillowed basalt flows (2b) - Mafic flows, coarse-grained, upper contact 60° CA, dark green-black, 30-50% grains and patchy pale green epidote alteration, massive, weakly folia, strong silicification, carbonate alteration absent, magnetite and pyrocusite as forms as above, magnetite ~ 20% fine-grained euhedral pyrite ~ 10% disseminated.	75476	13.40	14.00	0.60	20

CLARK-EVELEIGH CONSULTING

DIAMOND DRILL LOG

PROPERTY: LINGMAN LAKE
HOLE No.: 96-11

FROM	TO	LITHOLOGICAL DESCRIPTION
14.0	34.5	Medium-grained basalt/massive fine-grained basalt (2c,a) - Mafic flow(s), medium-grained and fine-grained (minor gradations from medium-grained) as previous (8.8-13.4), disseminated and thin patchy epidote ~ to 5%, fewer folia zone - pyrite concentrations minor carbonate alteration. 15.0-15.55; very strong silicification ± sulphides 15.0-15.1; > 80% pyrite, very fine-grained disseminated and in folia upper contact 50° CA 15.1-3 cm; wide, very coarse-grained white-grey quartz and patchy to 15.25 - 15.35, massive white quartz, 30% fine-grained pyrite between 15.35-15.55; even zones: 20% + fine-grained pyrite, massive very fine-grained magnetite and dull green chlorite (2 zones), and massive white-grey quartz, lower contact ~ 40° CA. 1-2 cm very fine-grained to aphaniticgrey quartz veinlets, CA 40-90°: 15.8, 15.95, 16.2, 16.4, 16.7, 17.1, 17.8, 18.2, 19.3, 19.9 18.7; porphyry veinlet in folia, 1 cm, 60° CA, epidote alteration surrounding 20.1; patchy quartz-epidote to 5 cm

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
75477	14.00	15.00	1.00	20
75478	15.00	15.55	0.55	25
75479	15.55	16.50	0.95	15
75480	16.50	17.50	1.00	15
75482	17.50	18.50	1.00	15
75483	18.50	19.50	1.00	5
75484	19.50	20.50	1.00	5
75485	20.50	21.50	1.00	5
75486	21.50	22.50	1.00	10
75487	22.50	23.50	1.00	10
75488	23.50	23.90	0.40	25
75489	23.90	24.40	0.50	TRACE
75490	24.40	25.40	1.00	15
75491	25.40	25.95	0.55	25
75492	25.95	26.90	0.95	TRACE
75493	26.90	28.00	1.10	TRACE
75494	28.00	29.00	1.00	25
75495	29.00	29.70	0.70	5
75496	29.70	30.20	0.50	10
75497	30.20	31.20	1.00	20
75498	31.20	31.85	0.65	30
75499	31.85	32.50	0.65	15
75500	32.50	33.00	0.50	20
75502	33.00	33.50	0.50	5
75503	33.50	34.50	1.00	10

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
		20.8; very fine-grained pale epidote ~ 3 cm wide, lower contact 60° CA					
		21.3-21.45; patchy grey and white quartz and visible silicification + >20% pyrite þ pyrrhotite(?), magnetite, fine-grained pyrite folia zones					
		sulphide concentrations (80% + pyrite folia zones; abundant magnetite + pyrrhotite(?) In very fine-grained folia zones and clots: 22.5-22.57, 25.0-25.3					
		very strong silicification, very fine-grained + magnetite þ grey quartz vein: 23.9-24.4, 25.4-25.95					
		strong epidote alteration 23.6-23.8					
		26.9-28.4; very strong silicification, 70% white-grey, coarse-grained quartz and quartz flooding, lower contact 30° CA, others to 0° CA. Very fine-grained patches dull green chlorite, magnetite in clots/seams, pyrite to 5% in medium-grained basalt					
		29.7-30.2; very strong silicification, several grey quartz + pyrite to 3 cm, in folia (70° CA) and other CA, magnetite concentrations to 40% adjacent x to 3 cm					
		31.2-31.85; very strong silicification, white quartz and magnetite folia, + weak, patchy epidote alteration					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		32.85-32.95; very strong silicification, grey and magnetite, pyrite 20% in folia zone					
		33.0-33.5; as above but sparse pyrite					
		33.5-34.5; >60% very strong silicification, folia, small clots, patches, magnetite ± pyroclusite					
34.5	51.5	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, dark green-black, dark grey, grey-black, magnetic, strongly silicified, weak to moderate carbonate, calcite seams, fractures, weak folia ~ 60° CA except well defined by pyrite, magnetite and in silicified massive fine-grained basalt, pyrite 10-15% throughout as very-fine grained disseminated and fine-grained blebs on folia. Some strong disseminated concentration (>50%), pyrite mainly euhedral, magnetite ~ 1 mm aggregates of very fine-grained and very fine-grained disseminated	75504	34.50	35.50	1.00	20
			75505	35.50	36.50	1.00	180
			75506	36.50	37.50	1.00	20
			75507	37.50	38.50	1.00	10
			75508	38.50	38.95	0.45	55
			75509	38.95	39.60	0.65	50
			75510	39.60	40.50	0.90	15
			75511	40.50	40.85	0.35	45
			75512	40.85	41.40	0.55	50
			75513	41.40	42.40	1.00	40
			75514	42.40	43.00	0.60	40
			75515	43.00	43.75	0.75	30
			75516	43.75	44.70	0.95	30
			75517	44.70	45.50	0.80	20
			75518	45.50	46.05	0.55	5
			75519	46.05	46.50	0.45	20
			75520	46.50	47.00	0.50	5
			75522	47.00	48.00	1.00	5
			75523	48.00	48.80	0.80	5
		38.0-38.4; very strong silicification, pyrite ~ 10% in folia					
		Fault(?) 38.7-38.9; 1 cm chlorite þ talc gouge/seam, 40° CA, 1 cm grey quartz veinlet, <5° CA, 2x1 cm grey quartz folia veinlets ~ 50° CA					
		38.95-39.6; >50% fine-grained pyrite disseminated 0.15 wide at each end, 0.05 very strong silicification centre, fine-grained grey and white quartz + >20% pyrite, magnetite absent in centre,					

FROM	TO	LITHOLOGICAL DESCRIPTION
		abundant elsewhere
		39.85-39.95; coarse-grained white-grey quartz, rare
		40.85-41.4; non-magnetic, ~ 50% very fine-grained disseminated pyrite and folia concentration, 60° CA, patches, veinlets very fine-grained white, very strong silicification
		42.4; dark green-black - downhole
		42.85-42.75; 1-3 cm wide very fine-grained magnetite veinlets in folia and wispy, ~ 35% section, pyrite very fine-grained ~ 15% disseminated
		42.85; fine-grained pyrite in 1 cm magnetite folia (60° CA)
		42.95 & 43.15; 1 & 2 cm grey quartz veins (folia)
		43.05-43.75; very strong silicification, very fine-grained grey quartz hosts most of 50-60% very fine-grained disseminated pyrite, magnetic in part
		43.75-44.85; <1% thin grey quartz fractures, folia and scattered
		44.85-45.5; several grey-white quartz veins 2 cm wide, sheared brown chlorite-biotite (44.0-44.1), cut very fine-grained massive fine-grained basalt + >35% very fine-grained disseminated pyrite,

	ASSAYS			
SAMPLE No.	FROM	TO	WIDTH	Au(ppb)
75524	48.80	49.50	0.70	5
75525	49.50	50.00	0.50	15
75526	50.00	50.85	0.85	15

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		magnetic					
		45.5-46.05; grey-green, very fine-grained massive, fine, irregular fractures (chlorite) "pseudobreccia", non-magnetic, ~3% pyrite on chlorite slips, downhole into increasing fracture density					
		46.05-46.5; very strong silicification, very fine-grained grey-white quartz in 5 cm centre and numerous lenses, 1% fine-grained molybdenite flakes disseminated in quartz, molybdenite (?) also in dark grey folia, pyrite 5% disseminated (outside central quartz vein)					
		46.5-50.85; speckled, strong folia, flattened to wispy chlorite (after magnetite?) In carbonate (calcite) alterated massive fine-grained basalt; dark grey + chlorite specks, 1-2% calcite folia, stringers, moderate silicification chlorite speckling ~ 20-30% section					
		48.2-48.8; very strong silicification, obliterates chlorite specks ± to ~ 10%, 5% fine-grained disseminated pyrite					
		48.8-50.85; moderate-strong silicification and very fine-grained white quartz-carbonate vein in folia ~ 70° CA					
		Fault 50-85-51.5; weakly calcite sealed breccia, numerous chlorite slips, minor gouge zones, 0.2 m at lower contact zone, strongly carbonated					

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
51.5	72.7	Quartz diorite ? (7e) - Intermediate intrusive - medium-grained/ coarse-grained, colour index ~ 50, green-black/light green-grey, ~ 2% coarse-grained grey quartz, mafics: HBL=calcite HBL, feldspar pale grey-light green (mostly epidote alteration), non-magnetic, sparse pyrite, <1% very fine-grained disseminated and small blebs, texture >90% massive, weak folia 60° CA quartz-carbonate veinlets, moderate calcite alteration, silicification moderate, stronger silicification in finer grained zones 66.1-66.8; very strong silicification, fine-grained quartz diorite + 1-2 cm white very fine-grained quartz and patchy very fine-grained white quartz, pyrite to 3-5% disseminated and folia blebs, 50° CA 68.75 & 68.85; fine-grained pyrite folia (3 mm width each), 1-2 cm fine-grained white quartz veins: 67.85 (4 cm), 70.8, grey > green downhole 72.7; lower contact intermediate	75527	66.10	66.80	0.70	35
72.7	86.18	Massive fine-grained basalt medium-grained basalt (2a±2c) - Mafic flow(s), fine-grained and minor medium-grained dark green-black, strong folia and upper section, strong calcite-carbonate veinlets (folia) and fractures, moderate silicification, very strong silicification as noted 72.7-80.3; strongly foliated, sheared section very fine-grained	75528	74.40	74.90	0.50	10
			75529	74.90	75.00	0.10	10
			75530	75.00	75.50	0.50	5
			75531	80.50	81.50	1.00	TRACE
			75532	81.50	82.50	1.00	TRACE
			75533	82.50	83.50	1.00	10
			75534	83.50	84.50	1.00	5

FROM	TO	LITHOLOGICAL DESCRIPTION	SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
		quartz vein folia and thin lenses ~ disseminated 5% pyrite to 1% disseminated very fine-grained and small blebs					
		Fault? 74-35-74.4; chlorite-talc broken core/folia					
		74.4-75.5; strong silicification, very strong silicification centre					
		74.9-75.0; fine-grained grey white quartz, folia (massive fine-grained basalt), very fine-grained pyrite < 1% + molybdenite ~ 1-2%, surrounding zones ~ <1% very fine-grained disseminated pyrite					
		80.3-86.18; weaker folia, calcite + chlorite alteration more intense as folia and irregular calcite veinlets, all CA, <1% pyrite disseminated and small blebs on chlorite folia, minor silicification lenses, molybdenite as <1%(?) Slips and fine-grained disseminated in chlorite alteration, e.g., 80.9, 82.05, 83.6					
86.18	88.9	Andesite porphyry ? (3b) - Intermediate flow(s), upper contact 60° CA (strongly folia, chlorite massive fine-grained basalt adjacent) feldspar porphyry, strongly silicified, feldspar phyric, white, subhedral (rare euhedral) to anhedral 1-5 mm feldspar (ortho) > 60%, ~5% chlorite after biotite, < 1% pyrite specks rare talc-carbonate schist, very fine-grained groundmass dull grey-light brown, massive, few minor very fine-grained lenses (shears?) and at lower contact, lower contact 55° CA					

PROPERTY: LINGMAN LAKE
HOLE No.: 96-11

DIAMOND DRILL LOG

FROM	TO	LITHOLOGICAL DESCRIPTION
88.9	91.85	Massive fine-grained basalt (2a) - Mafic flow(s), fine grained- as 72.7-80.3, pyrite rare specks, strong chlorite and calcite (folia, 60° CA), lower contact 55° CA
91.85	95.0	Andesite porphyry ? (3b) - Intermediate flow(s), as 86.18 91.95-92.9; white coarse-grained quartz flood ~ 5% very fine-grained brown-chlorite clots, upper contact 40°, lower contact 25° CA, rare pyrite bleb
95.0	97.05	Massive fine-grained basalt (2a) - Mafic flow(s), fine-grained, as 88.9, silicified zone 95.8-95.9
97.05	101.0	Medium-grained basalt (2c) - Mafic flow(s), medium-grained, as 80.3
		End of Hole (EOH)

SAMPLE No.	ASSAYS FROM	TO	WIDTH	Au(ppb)
75535	91.95	92.90	0.95	15

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
101.00	-45.00	0.00

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9720.00122
Assessment Files Research Imaging

Lands

Personal information collected o Mining Act, the information is a p Questions about this collection 933 Ramsey Lake Road, Sudbu

53F15SW0005 2.17385 LINGMAN LAKE

900

he Mining Act. Under section 8 of the orrespond with the mining land holder. Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

2.17385

1. Recorded holder(s) (Attach a list if necessary)

Name / Address	Client Number / Telephone Number / Fax Number
ECHO BAY ONTARIO LTD. P.O. BOX 551-569 MONETA AVENUE TIMMINS, ONTARIO P4N 7E4	301427 (705) 268-5858 (705) 268-5887
Name / Address	Client Number / Telephone Number / Fax Number
ECHO BAY ONTARIO LTD. (ATTN: JOANNE FORBES) SUITE 350-666 BURRARD ST. VANCOUVER, B.C. V6C 2X8	AS ABOVE (604) 662-4994 (604) 683-6365

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☑ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type: Diamond Drilling

Office Use	
Commodity	
Total $ Value of Work Claimed	$299,925.00
NTS Reference	53F/15SW
Mining Division	Red Lake
Resident Geologist District	Red Lake

Dates Work Performed From: 15 (Day) 02 (Month) 96 (Year) To: 22 (Day) 03 (Month) 96 (Year)

Global Positioning System Data (if available)

Township/Area: LINGMAN LAKE

M or G-Plan Number: G-1808

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are included in assessment work;
- include two copies of your technical report.

RECEIVED
JUN 13 1997
MINING LANDS BRANCH

RECEIVED
JUN 12 1997
MINING LANDS BRANCH

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name / Address	Telephone Number / Fax Number
DAVID MACLEAN - CHARK EVELEIGH CONSULTING 1000 ALLOY DRIVE, THUNDERBAY, ONTARIO P7B6A5	(807) 625-9291 (807) 625-9293
Name / Address	Telephone Number / Fax Number
Name / Address	Telephone Number / Fax Number

RECEIVED
RED LAKE MINING DIV.
JUN 04 1997
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

4. Certification by Recorded Holder or Agent

I, GILLES ARSENEAU. (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: G. Arseneau

Date: MAY 27, 1997

Agent's Address: ECHO BAY MINES LTD. STE 350-666 BURRARD

Telephone Number: (604) 662-4994

Fax Number: (604) 683-6365

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

2.11805

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$28, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 6, 892	$ 4,000	0	$4,892
1	1209547	1	40725	2400	12000	26325
2	1209548	2	180600	4800	450	175350
3	1209562	8	59850	19200	0	40650
4	1209564	9	18750	21600	0	0
5	1205301	1	0	2400	0	0
6	1208385	2	0	4800	0	0
7	1208386	1	0	2400	0	0
8						
9						
10						
11						
12						
13						
14						
15						
	Column Totals		299925	57600	12450	242325

I, [signature] J.G. Clark (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing [signature] Date June 6/1997.

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

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JUN 13 1997
MINING LANDS BRANCH

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

Office Use Only

Received Stamp

Deemed Approved Date Sept 4 / 97 Date Approved

Date Notification Sent

Total Value of

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

2.12385

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
DRILLING	1999.5 METRES	$90.00	179,955
Associated Costs (e.g. supplies, mobilization and demobilization).			
logging, supervision, assays		$20.00	39,990
Transportation Costs		$30.00	59,985
Food and Lodging Costs		$10.00	19,995
Total Value of Assessment Work			299,925

RECEIVED
RED LAKE MINING DIV.
JUN 04 1997
AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

RECEIVED
JUN 13 1997
MINING LANDS BRANCH

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, GILLES ARSENEAU (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as G. Arseneau, Senior Geologist (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
	MAY 27 1997

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)

2.17385

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Signature	Date
	MAY 27 1997

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5863

August 25, 1997

ECHO BAY ONTARIO LTD.
P.O. BOX 551
569 MONETA AVENUE
TIMMINS, ON
P4N 7E7

Dear Sir or Madam:

Submission Number: 2.17385

Subject: Transaction Number(s):		**Status**
	W9720.00122	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 11252
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.17385

Date Correspondence Sent: August 25, 1997 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9720.00122	1209547	LINGMAN LAKE	Deemed Approval	August 22, 1997

Section:
16 Drilling PDRILL

Correspondence to:
Resident Geologist
Red Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
ECHO BAY ONTARIO LTD.
TIMMINS, ON

Correspondence ID: 11252

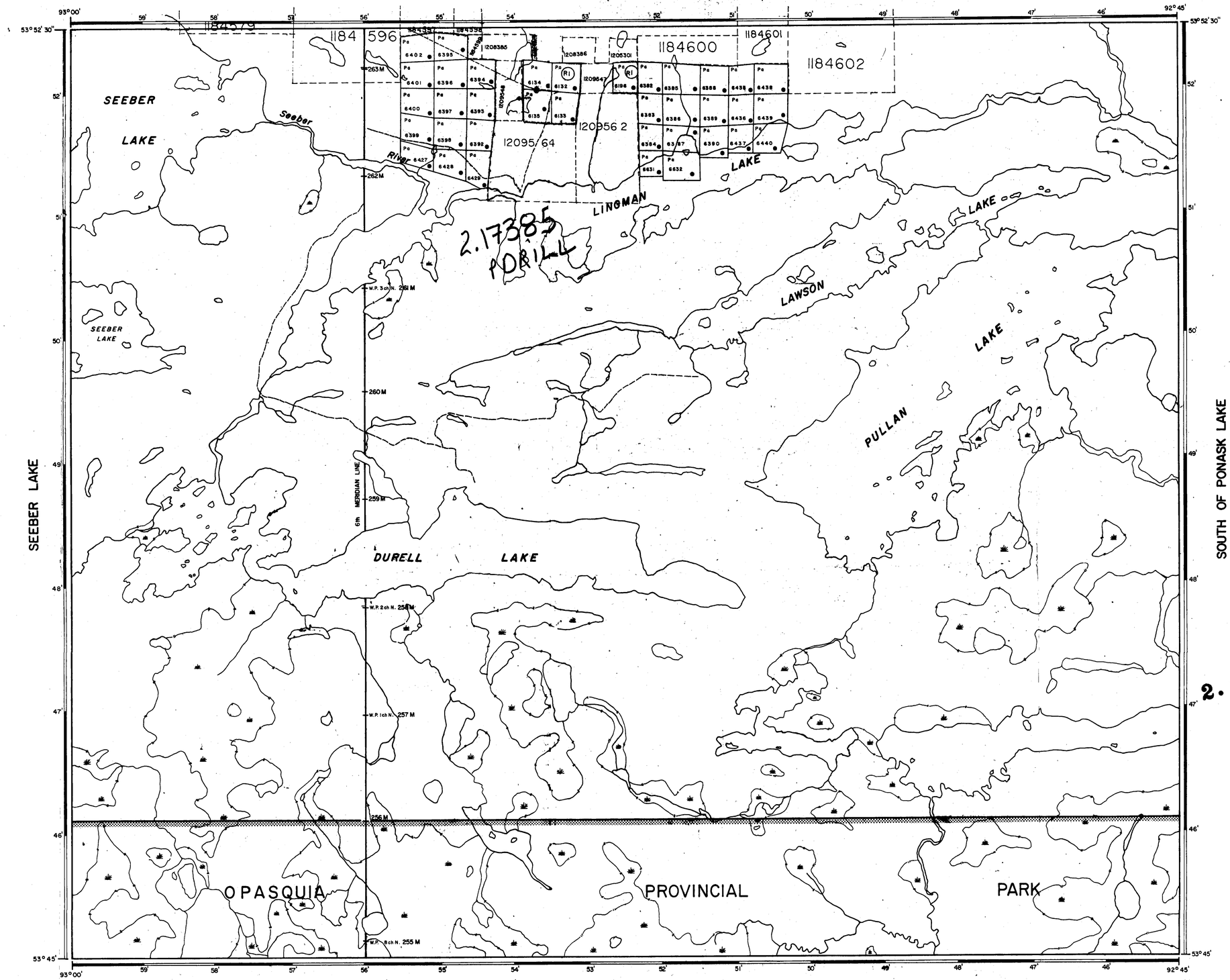
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
(R1) WITHDRAWAL	KRL-81/86	OCT.02/86	S.35,M/A/R.S.O./990	MNR FILE 195150

NORTH OF LINGMAN LAKE



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	OC
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

2.17385

AREA

LINGMAN LAKE

M.N.R. ADMINISTRATIVE DISTRICT
RED LAKE
MINING DIVISION
RED LAKE
LAND TITLES / REGISTRY DIVISION
KENORA (Patricia Portion)

Ontario Ministry of Natural Resources — Land Management Branch

Date NOVEMBER 1984

Number G-1808

1208385

staked

1208386

staked

1205301

Shoe Lake

Pa 6134

Pa 6132

1209547

Granite

200m.

230m. (02)

299m. (03)

227m.

248m.

L96-03 (-66)

L96-01 (-45)

L96-02 (-57)

1209548

L96-06 (-45)

L96-04 (-45)

Diabase

128 metre 3 compartment shaft

1,381,300 tons 0.33 ounces gold per ton

271.5m.

MUD LAKE

Roman Corp.

L96-05 (-45)

Road

1209562
(ECHO BAY CLAIMS)

Base Lake

Diabase

Road

Pa 6135

Pa 6133

104m.

L96-08 (-45)

99m.

L96-09 (-45)

95m.

L96-10 (-45)

1209564

125m.

L96-07 (-45)

101m.

L96-11 (-45)

Patents

Diabase

Lingman Lake

210

astronomic

Legend

Mineralized Zone

Diamond Drill Hole

0 200 400 600 800 1000

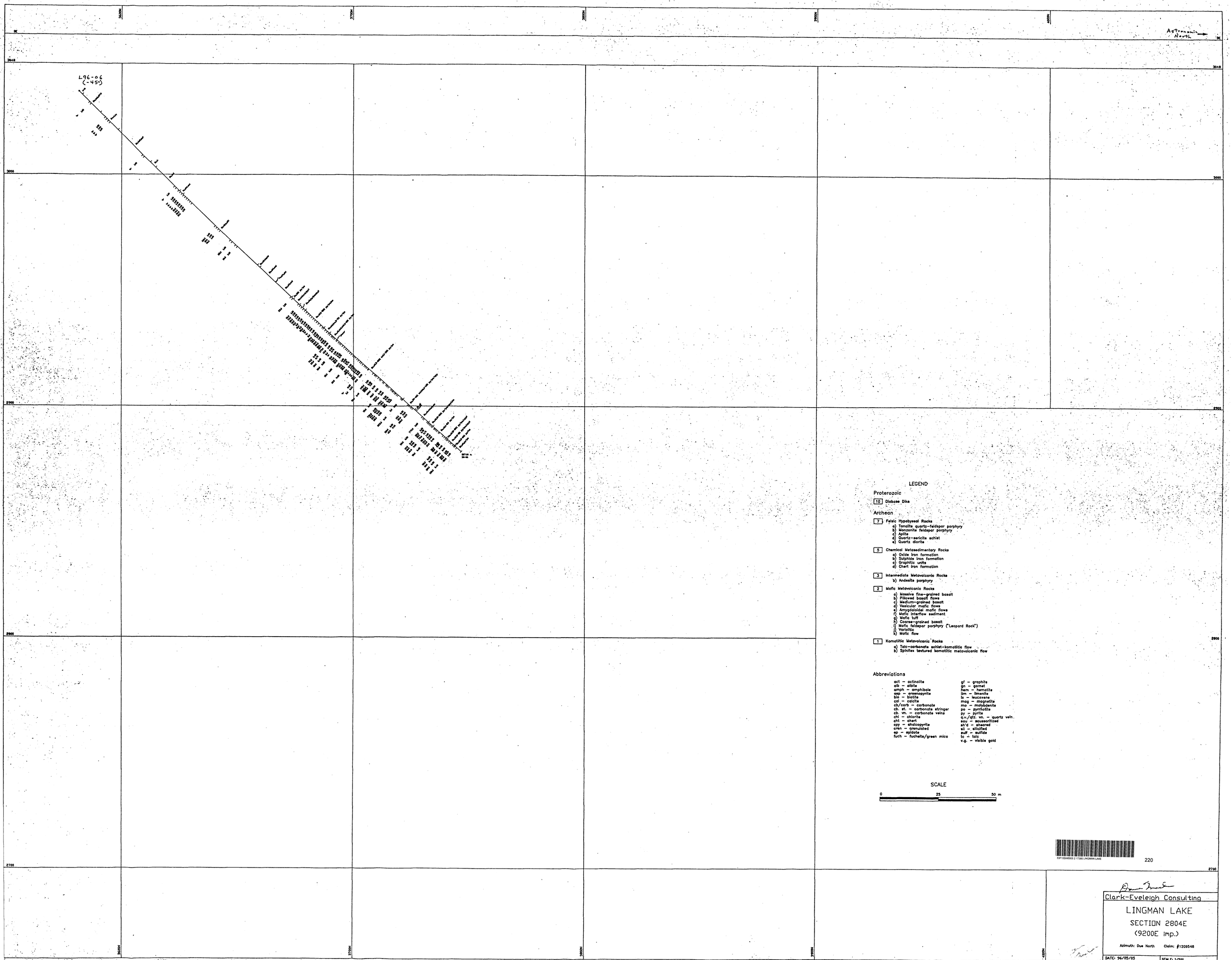
FEET

Figure 3

ECHO BAY MINES LTD.

LINGMAN LAKE PROJECT
1996
Drill Hole Location

GEOLOGY BY:	DATE: July 1996 / REV:
DRAWN BY:	SCALE: 1:3600 / MAP NO. LinDDH



LEGEND

Proterozoic

10 Diabase Dike

Archean

7 Felsic Hypabyssal Rocks
- a) Tonalite quartz-feldspar porphyry
- b) Monzonite feldspar porphyry
- c) Aplite
- d) Quartz-sericite schist
- e) Quartz diorite

5 Chemical Metasedimentary Rocks
- a) Oxide iron formation
- b) Sulphide iron formation
- c) Graphitic units
- d) Chert iron formation

3 Intermediate Metavolcanic Rocks
- b) Andesite porphyry

2 Mafic Metavolcanic Rocks
- a) Massive fine-grained basalt
- b) Pillowed basalt flows
- c) Medium-grained basalt
- d) Vesicular mafic flows
- e) Amygdaloidal mafic flows
- f) Mafic interflow sediment
- g) Mafic tuff
- h) Coarse-grained basalt
- i) Mafic feldspar porphyry ("Leopard Rock")
- j) Variolitic
- k) Mafic flow

1 Komatiitic Metavolcanic Rocks
- a) Talc-carbonate schist-komatiite flow
- b) Spinifex textured komatiitic metavolcanic flow

Abbreviations

act – actinolite
ab – albite
amph – amphibole
asp – arsenopyrite
bio – biotite
cal – calcite
cb/carb – carbonate
cb. st. – carbonate stringer
cb. vn. – carbonate veins
chl – chlorite
cht – chert
epy – chalcopyrite
gran – granulated
ep – epidote
fuch – fuchsite/green mica
gf – graphite
gn – garnet
hem – hematite
ilm – ilmenite
lx – leucoxene
mag – magnetite
mo – molybdenite
po – pyrrhotite
py – pyrite
q.v./qtz. vn. – quartz vein
sau – saussuritized
sh'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold

SCALE

0 25 50 m

53F15SW9005 2 17385 LINGMAN LAKE

220

Clark-Eveleigh Consulting

LINGMAN LAKE

SECTION 2804E

(9200E imp.)

Azimuth: Due North Claim: #1209548

DATE: 96/05/03 SCALE: 1/500

2400N 2700N 2800N 2900N 3000N

Astronomic North

0C 0C

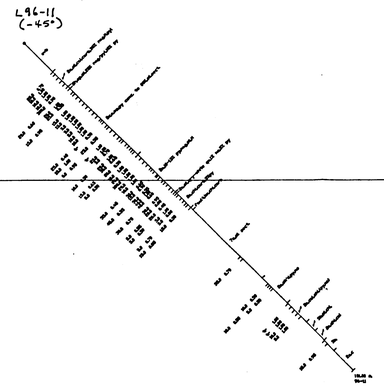
3048 3048

3000 3000

2900 2900

2800 2800

2700 2700



LEGEND

Proterozoic

10 Diabase Dike

Archean

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cpy – chalcopyrite
cren. – crenulated
ep – epidote
fuch – fuchsite/green mica
gf – graphite
gn – garnet
hem – hematite
ilm – ilmenite
lx – leucoxene
mag – magnetite
mo – molybdenite
po – pyrrhotite
py – pyrite
q.v./qtz. vn. – quartz vein
sau – saussuritized
sh'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold

SCALE

0 25 50 m

230

2700 2700

2400N 2700N 2800N 2900N 3000N

Clark-Eveleigh Consulting

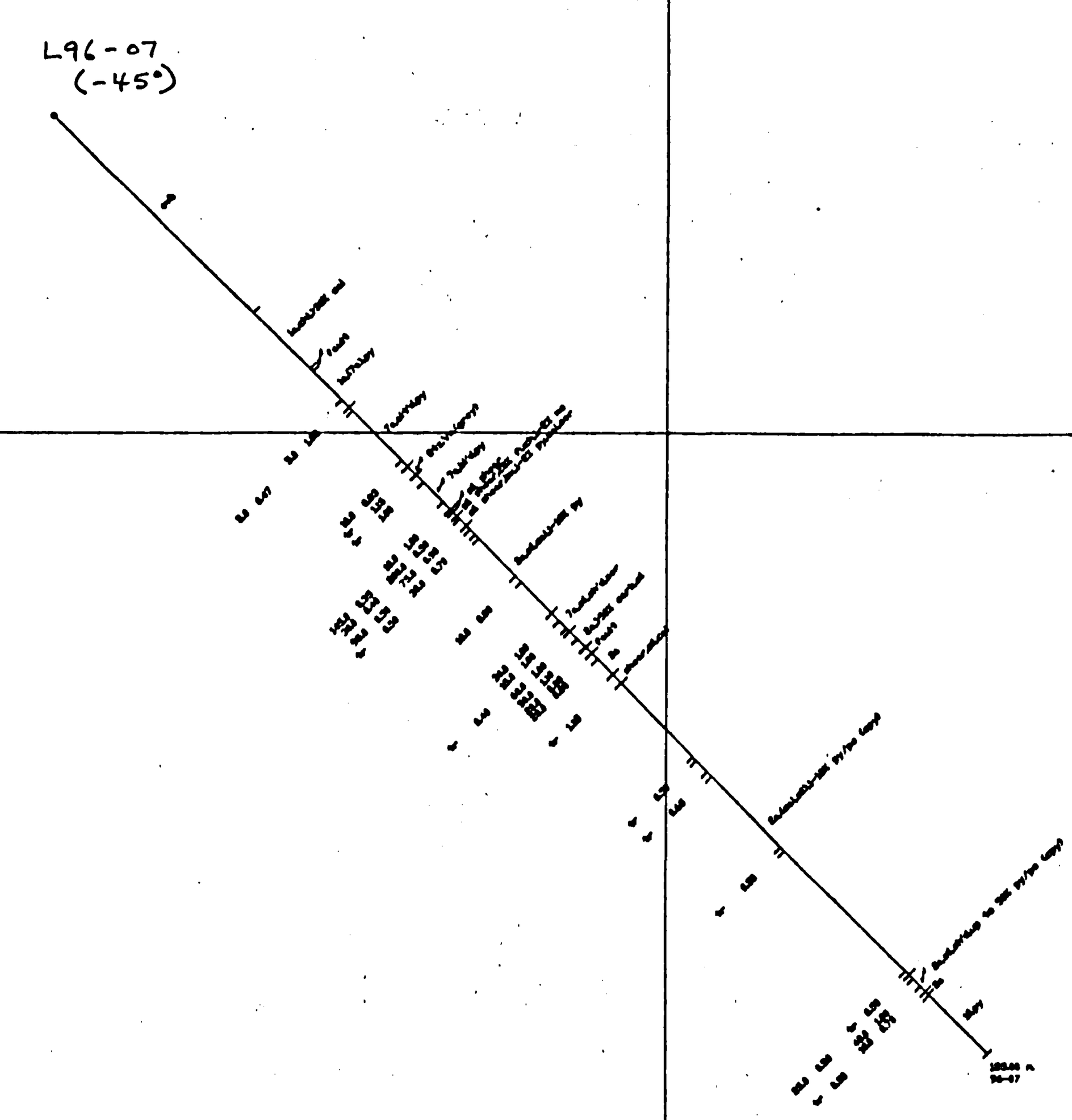
LINGMAN LAKE

SECTION 3600E

(11800E imp.)

Azimuth Due North Claim #1209562

DATE: 96/05/05 SCALE: 1/500



Astronomic North

LEGEND

Proterozoic

[10] Diabase Dike

Archean

[7] Felsic Hypabyssal Rocks
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- c) Graphitic units
- d) Chert iron formation

[3] Intermediate Metavolcanic Rocks
- b) Andesite porphyry

[2] Mafic Metavolcanic Rocks
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- e) Amygdaloidal mafic flows
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mo - molybdenite
po - pyrrhotite
py - pyrite
q.v./qtz. vn. - quartz vein
sau - saussaritized
sh'd - sheared
sil - silicified
sulf - sulfide
tc - talc
v.g. - visible gold

SCALE

0 25 50 m

Clark-Eveleigh Consulting

LINGMAN LAKE

SECTION 3200E
(10500E Imp.)

Azimuth: Due North Claim #1209564

DATE: 96/05/05 | SCALE: 1/500

3150N 3250N 3350N 3450N 3550N 3650N

0E

Astronomic North

3048

3000

2900

2800

2700

L96-08
(-45°)

LEGEND

Proterozoic

10 Diabase Dike

Archean

7 Felsic Hypabyssal Rocks
- a) Tonalite quartz-feldspar porphyry
- b) Monzonite feldspar porphyry
- c) Aplite
- d) Quartz-sericite schist
- e) Quartz diorite

5 Chemical Metasedimentary Rocks
- a) Oxide iron formation
- b) Sulphide iron formation
- c) Graphitic units
- d) Chert iron formation

3 Intermediate Metavolcanic Rocks
- b) Andesite porphyry

2 Mafic Metavolcanic Rocks
- a) Massive fine-grained basalt
- b) Pillowed basalt flows
- c) Medium-grained basalt
- d) Vesicular mafic flows
- e) Amygdaloidal mafic flows
- f) Mafic interflow sediment
- g) Mafic tuff
- h) Coarse-grained basalt
- i) Mafic feldspar porphyry ("Leopard Rock")
- j) Variolitic
- k) Mafic flow

1 Komatiitic Metavolcanic Rocks
- a) Talc-carbonate schist-komatiitic flow
- b) Spinifex textured komatiitic metavolcanic flow

Abbreviations

act – actinolite
alb – albite
amph – amphibole
asp – arsenopyrite
bio – biotite
cal – calcite
cb/carb – carbonate
cb. st. – carbonate stringer
cb. vn. – carbonate veins
chl – chlorite
cht – chert
cpy – chalcopyrite
cren – crenulated
ep – epidote
fuch – fuchsite/green mica
gf – graphite
gn – garnet
hem – hematite
ilm – ilmenite
lx – leucoxene
mag – magnetite
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py – pyrite
q.v./qtz. vn. – quartz vein
sau – saussaritized
sh'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold

SCALE

0 25 50 m

250

Clark-Eveleigh Consulting

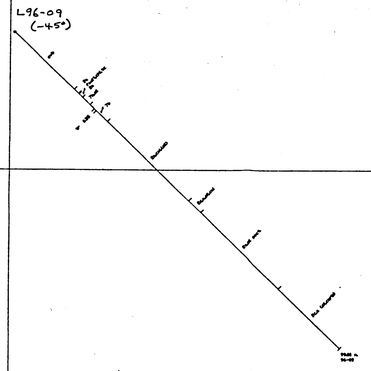
LINGMAN LAKE

SECTION 4025E

(13200E Imp.)

Azimuth: Due North Claim: #1209562

DATE: 96/05/03 SCALE: 1/500



Astronomic North

LEGEND

Proterozoic

10 Diabase Dike

Archean

7 Felsic Hypabyssal Rocks
- a) Tonalite quartz–feldspar porphyry
- b) Monzonite feldspar porphyry
- c) Aplite
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- e) Quartz diorite

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- d) Chert iron formation

3 Intermediate Metavolcanic Rocks
- b) Andesite porphyry

2 Mafic Metavolcanic Rocks
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- e) Amygdaloidal mafic flows
- f) Mafic interflow sediment
- g) Mafic tuff
- h) Coarse–grained basalt
- i) Mafic feldspar porphyry ("Leopard Rock")
- j) Variolitic
- k) Mafic flow

1 Komatiitic Metavolcanic Rocks
- a) Talc–carbonate schist–komatiitic flow
- b) Spinifex textured komatiitic metavolcanic flow

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sh'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold

SCALE

0 25 50 m

260

Clark-Eveleigh Consulting

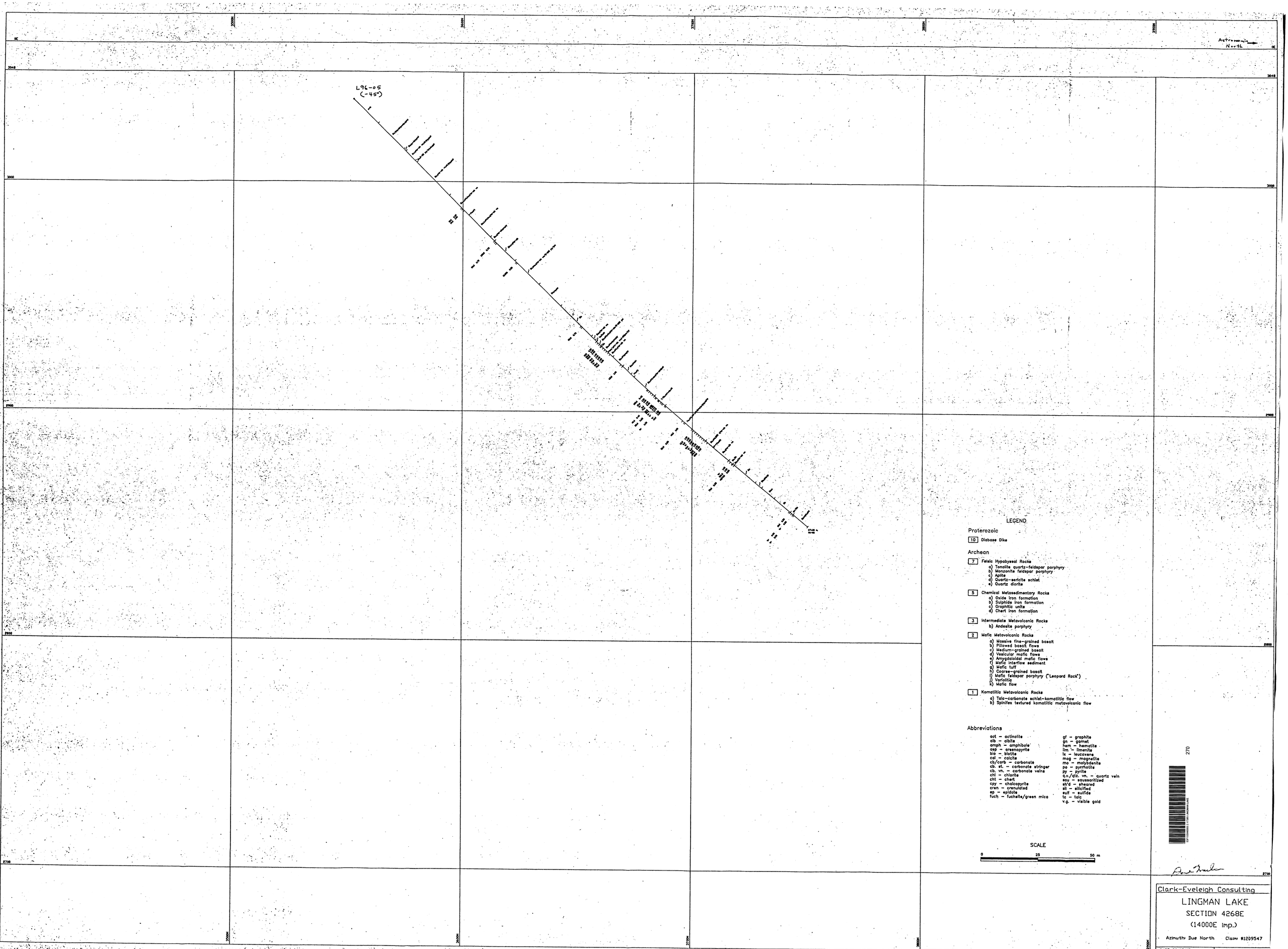
LINGMAN LAKE

SECTION 4040E

(13250E imp.)

Azimuth Due North Claim #1209562

DATE: 96/05/05 SCALE 1/500


25000N
25500N
26000N
26500N
27000N
27500N
28000N
SE
NE
Astronomic North
3048
3000
2950
2900
2850
2800
2750
L96-05
(-45°)
LEGEND
Proterozoic
10 Diabase Dike
Archean
7 Felsic Hypabyssal Rocks
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py – pyrite
q.v./qtz. vn. – quartz vein
sau – saussaritized
shr'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold
SCALE
0
25
50 m
270
Clark-Eveleigh Consulting
LINGMAN LAKE
SECTION 4268E
(14000E Imp.)
Azimuth: Due North
Claim #1209547
DATE: 96/05/05
SCALE: 1/500


Astronomic North
L96-10
(-45°)
LEGEND
Proterozoic
10 Diabase Dike
Archean
7 Felsic Hypabyssal Rocks
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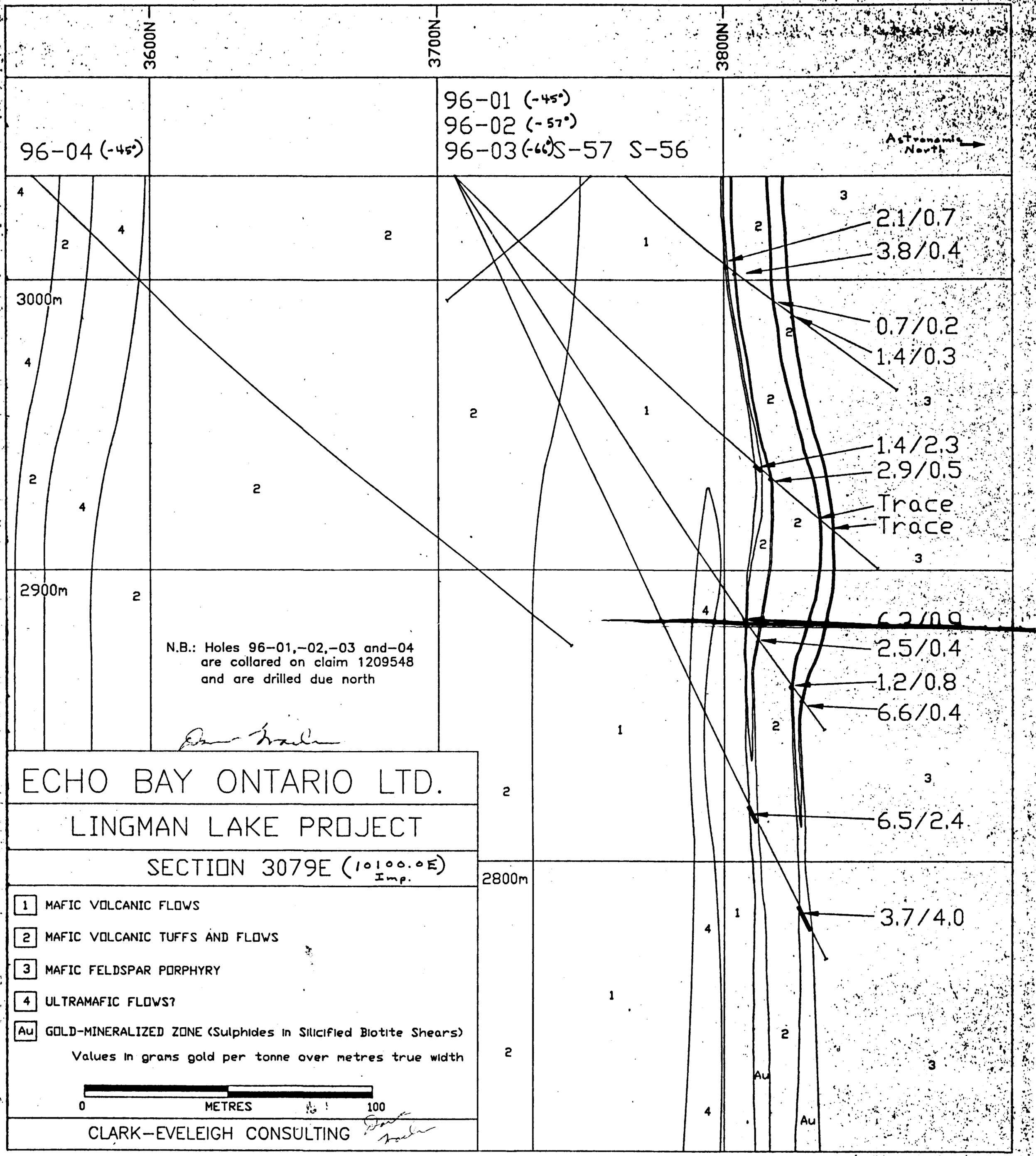
q.v./qtz. vn. – quartz vein
sau – saussaritized
sh'd – sheared
sil – silicified
sulf – sulfide
tc – talc
v.g. – visible gold
SCALE
0 25 50 m
53F15SW0005 2.17385 LINGMAN LAKE
280
2700
3400N
Clark-Eveleigh Consulting
LINGMAN LAKE
SECTION 4200E
(13776E imp.)
Azimuth: Due North
Claim #1209562
DATE: 96/05/05
SCALE: 1/500



N.B.: Holes 96-01,-02,-03 and-04 are collared on claim 1209548 and are drilled due north

ECHO BAY ONTARIO LTD.

LINGMAN LAKE PROJECT

SECTION 3079E (10100.0E Imp.

1 MAFIC VOLCANIC FLOWS

2 MAFIC VOLCANIC TUFFS AND FLOWS

3 MAFIC FELDSPAR PORPHYRY

4 ULTRAMAFIC FLOWS?

Au GOLD-MINERALIZED ZONE (Sulphides in Silicified Biotite Shears)

Values in grams gold per tonne over metres true width

0 METRES 100

CLARK-EVELEIGH CONSULTING