

83-#262 - #11369

7

DIAMOND DRILLING REPORT

ON THE

ROSCOE 1 MINERAL CLAIM

RECORD NUMBER 440

KAMLOOPS MINING DIVISION

NTS SHEET 92I/7

LATITUDE 50°23'N

LONGITUDE 120°58'W

OWNED BY NATIONAL TRUST COMPANY LIMITED

510 BARRARD, VANCOUVER, B.C. V2C 2J7

OPERATED BY HIGHMONT OPERATING CORPORATION

BOX 3000, LOGAN LAKE, B. C. V0K 1W0

Report Prepared By

G.R. Sanford - Highmont Mine Geologist

15 July 1983

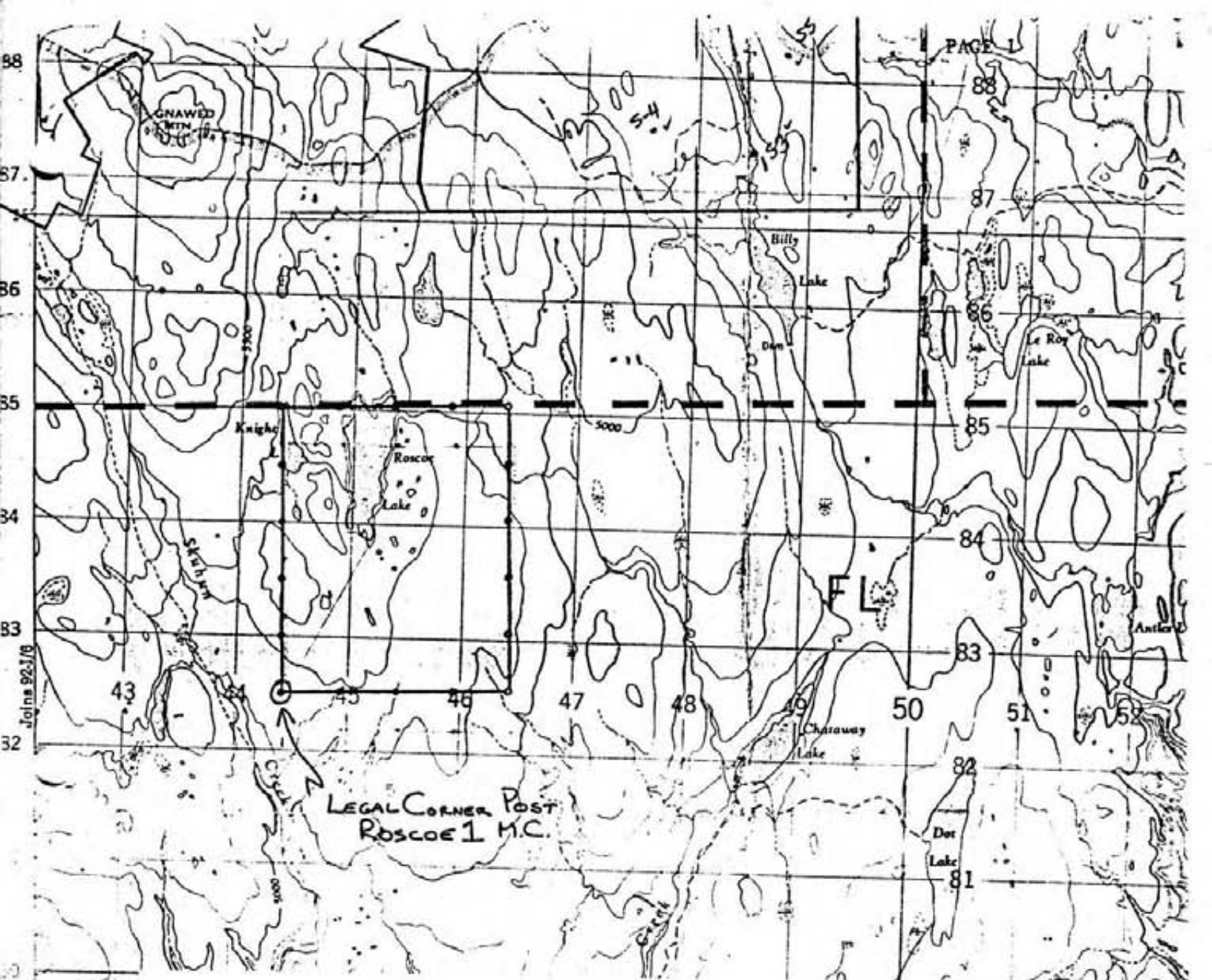
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,369

DIAMOND DRILLING REPORT
ON THE
ROSCOE 1 MINERAL CLAIM

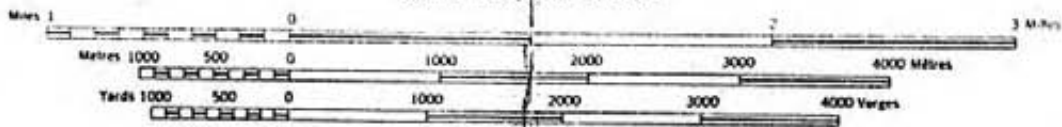
TABLE OF CONTENTS

	PAGE
Index Map	1
Introduction	
i) Location and Access	2
ii) Claim Description	2
Figure 1 - Location Map Roscoe 1	3
Figure 2 - Roscoe Lake - Drill Hole Collars	4
iii) Summary of Work Done	5
Detailed Technical Data and Interpretations	
i) Purpose	6
ii) Results	7
iii) Interpretations	7
iv) Conclusions	8
Itemized Cost Statement	9
Author's Qualifications	10
Appendix I Diamond Drill Log RL83-1, RL83-2	
Appendix II Assay Results	

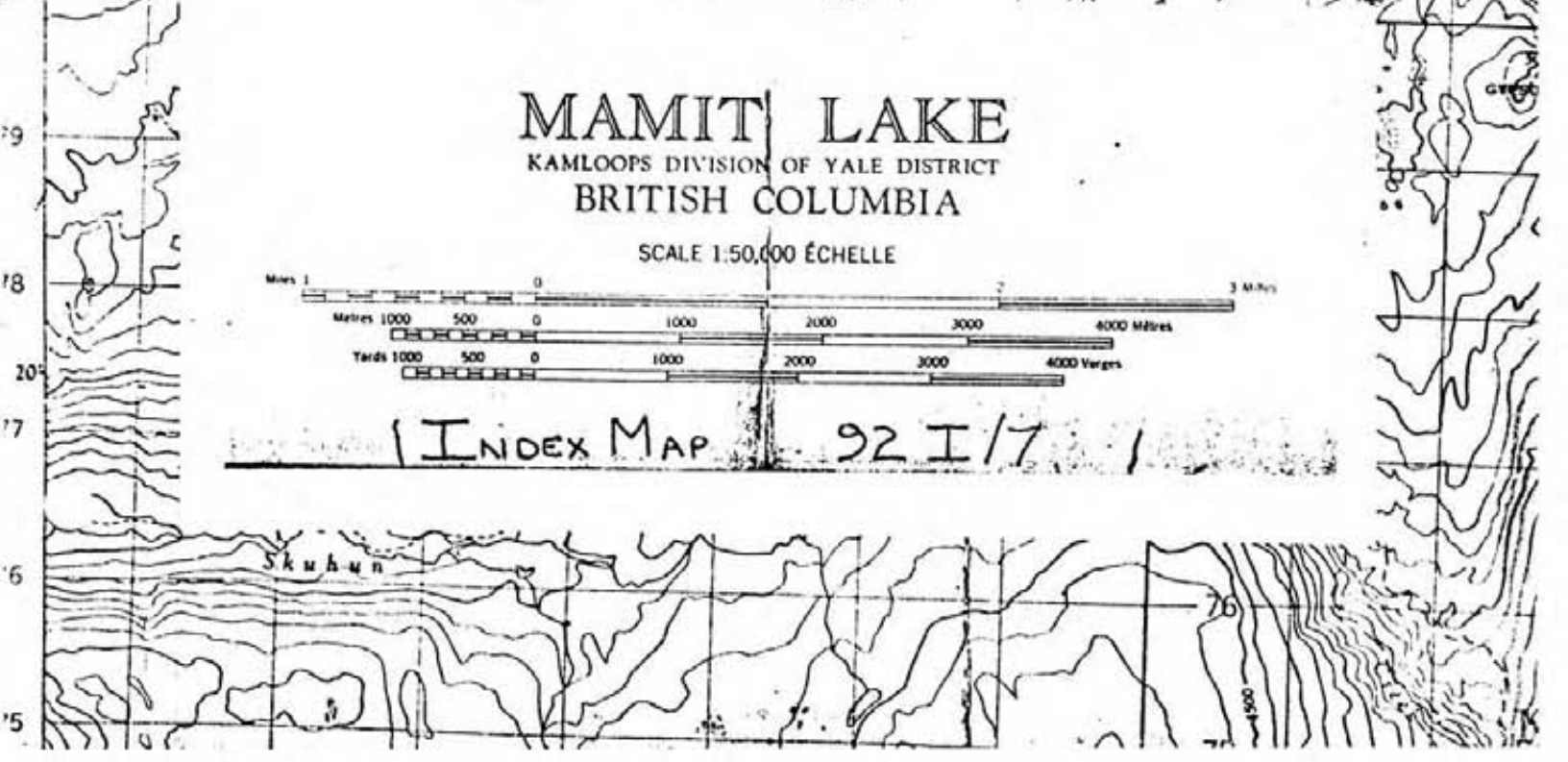


MAMIT LAKE
 KAMLOOPS DIVISION OF YALE DISTRICT
 BRITISH COLUMBIA

SCALE 1:50,000 ÉCHELLE



INDEX MAP 92 I / 7



DIAMOND DRILLING REPORT
ON THE
ROSCOE 1 MINERAL CLAIM

Introduction

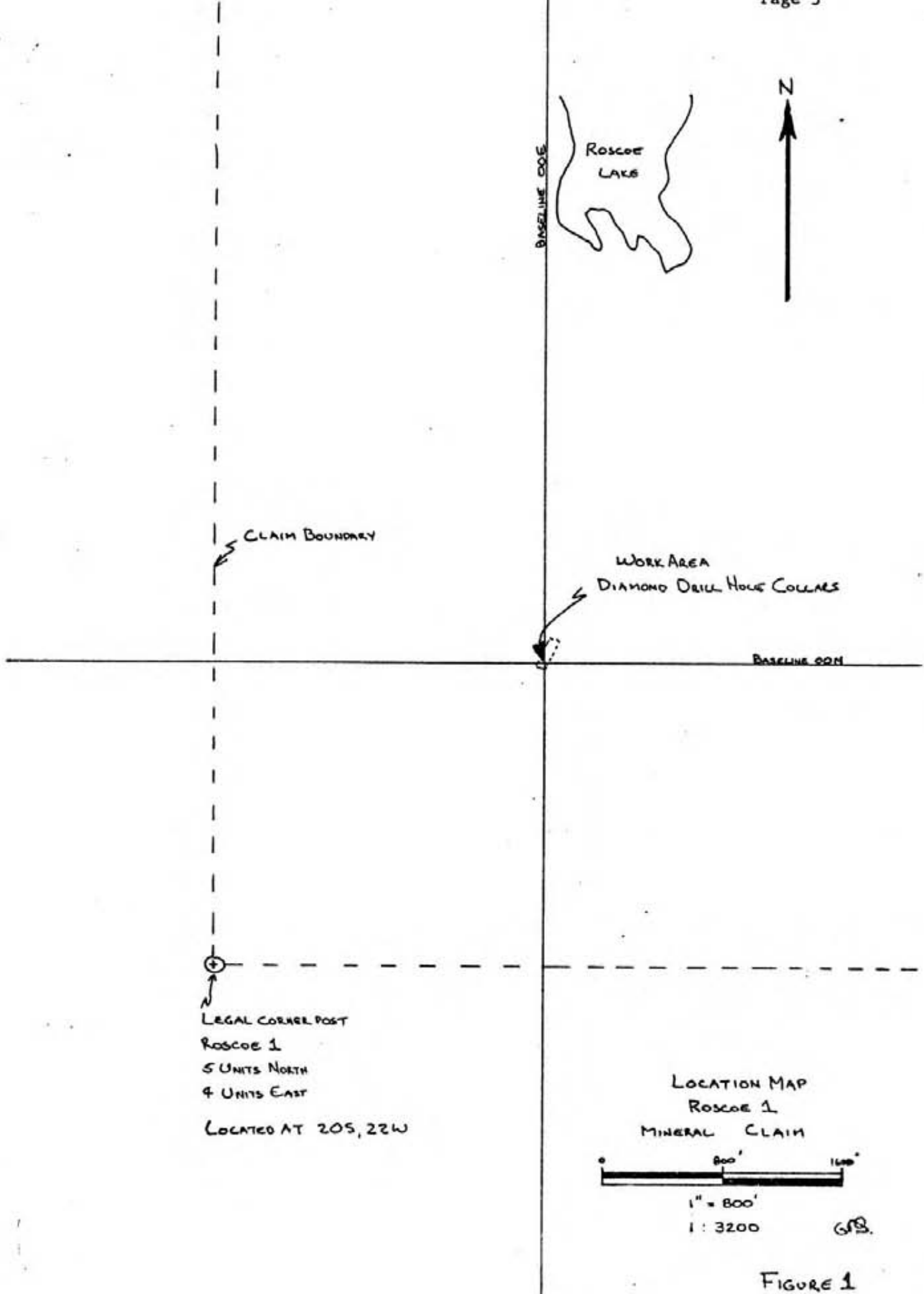
i) Location and Access

The Roscoe 1 Mineral Claim of 20 units is located in the Highland Valley, 10.5 km due west of Mamit Lake. The legal corner post lies 1.5 km southwest of the south end of Roscoe Lake, and Roscoe Lake is included within the claim boundaries.

The easiest access to the claim is via the Skuhun Creek Road from Twenty mile on Highway 8 to Chataway Lake and then onto Roscoe Lake. Access to Chataway Lake from Lower Nicola on Highway 8 via the Craigmont/Aberdeen Road is also possible, although the road is poorly maintained. Access from the Highmont Minesite in the Highland Valley is via a dirt trail, suitable for 4 wheel drive traffic.

ii) Claim Description

The Roscoe 1 Mineral Claim was staked by Highmont on July 5, 1976. This was a modified grid restake of the Pen Claim Group, held by Highmont since the late 1960's. Prior to this, the ground was held as the Yobet Claims by Stellako Mining Company.



CLAIM BOUNDARY

BASELINE 00E

ROSCOE LAKE



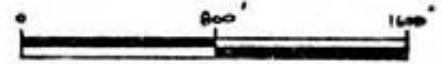
WORK AREA
DIAMOND DRILL HOLE COLLARS

BASELINE 00M



LEGAL CORNER POST
ROSCOE 1
5 UNITS NORTH
4 UNITS EAST
LOCATED AT 20S, 22W

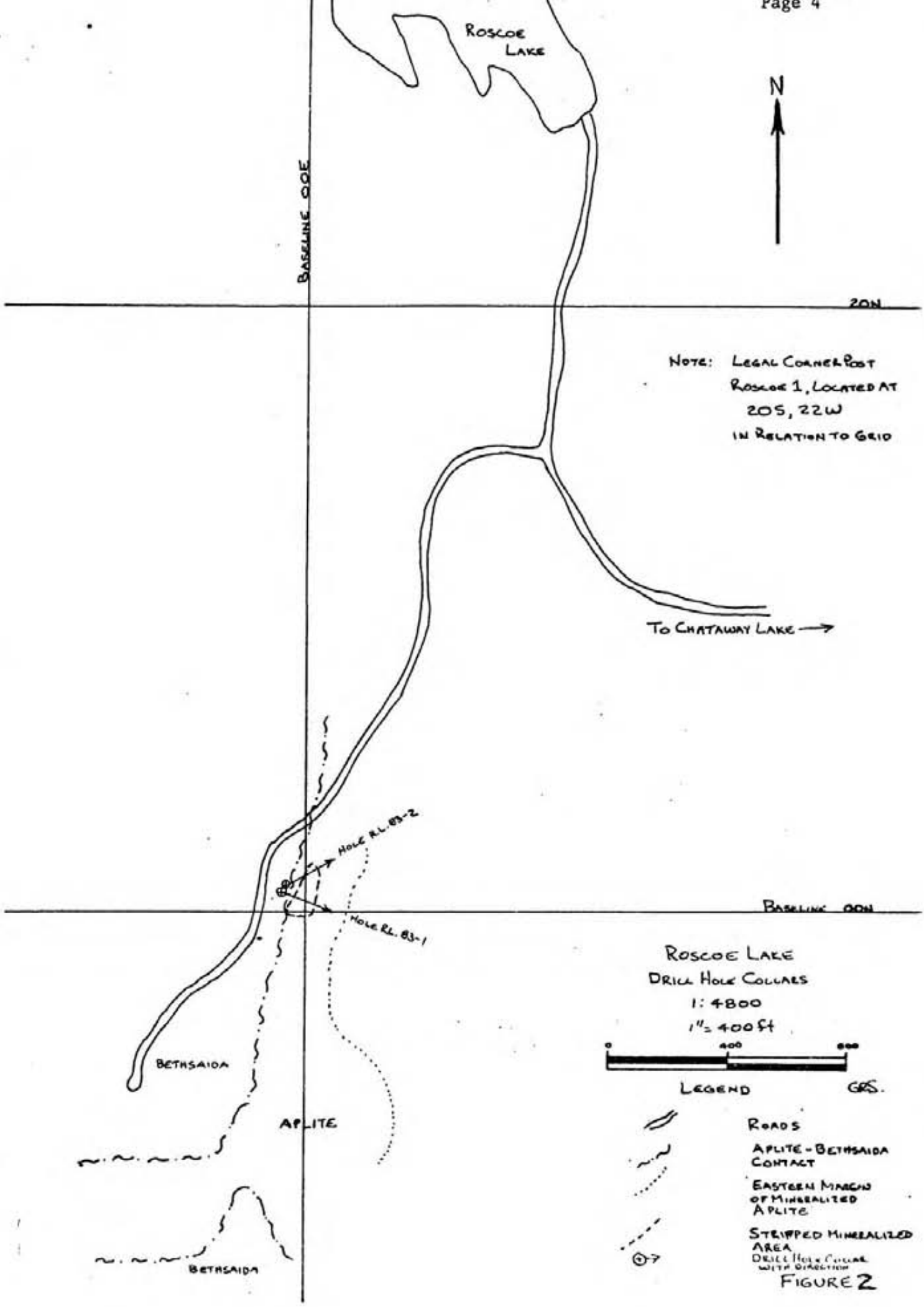
LOCATION MAP
ROSCOE 1
MINERAL CLAIM



1" = 800'
1:3200

G.P.B.

FIGURE 1



NOTE: LEGAL CORNER POST
 ROSCOE 1, LOCATED AT
 20S, 22W
 IN RELATION TO GRID

TO CHATAWAY LAKE →

ROSCOE LAKE
 DRILL HOLE COLLARS
 1: 4800
 1" = 400 FT



LEGEND GRS.

- ROADS
- APLITE - BETHSAIDA CONTACT
- EASTERN MARGIN OF MINERALIZED APLITE
- STRIPPED MINERALIZED AREA
- DRILL HOLE COLLAR WITH DIRECTION

FIGURE 2

In the mid sixties, Stellako Mining and Noranda Explorations did considerable Geophysical, Geological and Geochemical work, followed by extensive road building, trenching and diamond drilling. In the late 1960's to mid 1970's, Highmont continued Geological, Geochemical and Geophysical work in the area, and drilled three percussion holes. No work has been done since.

Work to date has uncovered a zone of Bornite-Chalcopyrite mineralization occurring within an Aplite dyke. The mineralization is associated with the western margin of the dyke, where it contacts Bethsaida Granodiorite.

Several of the reports previously submitted for assessment purposes are:

- 1) "Geochemical Report on the Price Claims and Ruby Fractions - Roscoe Lake" by A.J. Reed, October 29, 1974
- 2) "Geochemical Report on the Price 19, 21, 51-54 and Ruby 5 Fr. Mineral Claims, Roscoe Lake" by A.J. Reed, September 18, 1974
- 3) "Geophysical Report on the Price, Ruby and Pen Claims, Roscoe Lake" By A.J. Reed, May 21, 1974
- 4) "Report on the Geological Survey of the Pathfinder Resources Ltd. Property, Highland Valley" by G.D. Ulrich and A.J. Reed, August 7, 1972
- 5) "Report on Geological and Geochemical work ..., Pen Claims, Highland Valley" by A.J. Reed, February 26, 1971

- 6) "Reported on the Induced Polarization and Resistivity Survey, Pen Claims, Highland Valley Area" by A.W. Mullan and P.G. Hallof, September 1970.

iii) Summary of Work Done

Drilling:

Two BQ size Diamond Drill Holes totalling 123.4 meters.

All work was performed on the Roscoe 1

Detailed Technical Data and Interpretations

I) Purpose

The purpose of the drilling was to evaluate at depth, a surface exposure of Malachite, Bornite and Chalcopryrite. This showing had been previously stripped, and scattered Malachite, Bornite and Chalcopryrite was noted over an area up to 30.5 m wide and 61.0 m long. The holes were designed to cut the mineralized zone at a depth of 24.5 m below surface.

As previously mentioned, the mineralization lies along the western margin of an aplite dyke, where it contacts Bethsaida Granodiorite, and is associated with Quartz veins within the Aplite.

ii) Results

All drilling was done under contract to Rainbow Diamond Drilling Limited, of Merritt. A Boyles 15A Diamond Drill was used. Sufficient roadwork had been done in the mid 1960's that the drill was offloaded from a Hiab unit, right onto the drill site. No catwork was required or done. Any movement of the drill was done using the drills own cable winch.

Core was taken to the Highmont Minesite for logging. Core was split and assayed for Copper, Copper Oxides, Molybdenum and Silver at Highmont's Assay Lab, using standard Atomic Absorption Techniques.

The drill core is now stored at the Highmont minesite. Diamond drill logs are attached as Appendix I. Assay results are tabulated in Appendix II.

The Coordinates of the Drill Holes are:

HOLE #	SIZE	AZIMUTH	DIP	LENGTH	COLLAR COORS	ELEVATION
RL 83-1	BQ	110	-42	62.8 m	0+60N, 0+80W	1585m
RL 83-2	BQ	061	-39	60.7 m	0+80N, 0+60W	1585m

iii) Interpretations

Both holes succeeded in undercutting the surface exposure of Aplite containing Malachite, Bornite and Chalcopyrite. Hole No. 1 undercut the


best surface exposure, but did not intersect any noteworthy mineralization. Hole No. 2, cut the surface exposure some 30.5m north of Hole 1. Surface mineralization was not as apparent here, but improved at depth, assaying better than .15% Cu over 12m from 24.4 - 36.8m. All mineralization in both holes was associated with Quartz veinings.

From comparisons of assay results, the silver content, although slight, exhibits a positive association with the copper mineralization. Previous reports have indicated the presence of native silver in scattered locations. The assay information suggests that the native silver, if present, is intimately associated with the Bornite-Chalcopyrite mineralization. No attempt was currently made to identify possible silver bearing minerals.

iv) Conclusion

Hole No. 2 indicated that mineralized zones can be encountered at depths of at least 25m. Hole No. 1 indicated that the mineralization on surface did not extend vertically to any depth. The surface mineralized zone is possibly pipe like, dipping northwards towards Hole No. 2. A southward dip or extension has not been tested for.

The mineralization is erratic and will be hard to detect without an intense delineation program.



G.R. Sanford, Geologist
Highmont Operating Corporation

ITEMIZED COST STATEMENTROSCOE 1 MINERAL CLAIM

1) Diamond Drilling	1 June - 4 July 83	5 July - 15 July 1983
Rainbow Diamond Drilling Ltd.		
123.4m of NQ Core Drilling		
All Inclusive Lump Sum Payment	102.1m/\$4962.96	21.3'm/\$1037.04
\$6000.00 (28 June - 5 July 1983)		
2) Reestablish old grid by Chaining from known point and mark up drill collars		
G. Sanford, M. Porter ½ Day each		
@\$125./day (21 June 1983)	\$ 125.00	-
3) Drilling Supervision		
M. Porter 5 days @ \$125/day (28 June- 5 July 83)	\$ 500.00	\$ 125.00
G. Sanford 2 days @\$150/day (1 June, 1 July 83)	\$ 300.00	-
4) Vehicle Use		
6 days @ \$50.00 (21 June, 28 June - 5 July 1983)	\$ 250.00	\$ 50.00
5) Core Splitting		
M. Porter 2 Days @ \$125/day (6-11 July 1983)	-	\$ 250.00
Core Boxes 16 @\$2.50		\$ 40.00
6) Assays		
37 Assays X 7.50/Elements X 4 Elements (8 - 13 July 1983)	-	\$1110.00
7) Core Logging, Report Preparation, Etc.		
G. Sanford 4 Days @ \$150.00 (5 July - 15 July 1983)	-	\$ 600.00
Totals	\$6137.96	\$3212.04
Grand Total	\$9350.00	

AUTHOR'S QUALIFICATIONS

I, GERALD R. SANFORD, OF 1901 PARKER DRIVE, MERRITT,
BRITISH COLUMBIA, DO HEREBY CERTIFY THAT:

- 1) I am a Geologist employed by Highmont
Operating Corporation;
- 2) I graduated from the University of British
Columbia in 1969 with a Bachelor of Applied
Science Degree in Geological Engineering
- 3) I have been continuously employed in the
mining industry since graduation; and that
- 4) this report describes work performed on
The Roscoe 1 Mineral Claim under my
supervision during the period 1 June -
15 July 1983.


G. R. Sanford
July 15, 1983

APPENDIX I

DIAMOND DRILL HOLE LOGS

RL83-1

RL83-2

--- DIAMOND DRILL LOG.

Grid No. _____ Property Roscoe Lake Section No. _____ Hole No. RL83-1

Started	28 June 83	Bearing	110 ⁰	Dips	-42'	Lat.	0 + 60 N	Elevation	Location
Completed	1 July 83	Length	62.8'	Surface Hole	-	Dep.	0 + 80 W	Level	Logged by <u>G.S.</u>
Standpipe		Casing	6.4'	Underground Hole		Remarks			

FOOTAGE		Core Re- covered	Description	Assay				Average Values
From	To							
0	6.4		Overburden					
6.4	25.6	98	Bethsaida Granodiorite. Cream to pinkish color. Medium grained to 3mm diameter. Light green sericite alteration of plagioclase. Biotite in books. Finer grained groundmass is pinkish and is probably K-Feldspar. Also limonite stained. Moderate to intense overall alteration. Broken to 9.1'. 12.8 - 13.4 Slightly finer grained section. 17.1 - 17.4 Gouge 17.4 - 17.7 Malachite, Azurite stains, fleck Bornite in quartz vein with fragments of light green apilite. From 17.4 on, plagioclase feldspar alteration increases, sections completely sericitic. Rock has patchy light grey brown darker colored intervals where K-Feldspar content decreases, grain size decreases slightly. 21.0 - 22.9 Light brown Feldspar alteration. 25.0 - 25.3 15 cm. light green, gougy alpite.					
25.6	27.7	07	At 25.6 drillers note fault 15 cm. core recovered - Creamy green Intensely altered Bethsaida.					

--- DIAMOND DRILL LOG.

Grid No. _____ Property _____ Section No. _____ Hole No. RL83-1

Started	Bearing	Dips	Lat.	Elevation	Location
Completed	Length	Surface Hole	Dep.	Level	Logged by <u>G.P.S.</u>
Standpipe	Casing	Underground Hole	Remarks		

FOOTAGE		Core Re- covered	Description	Assay			Average Values
From	To						
27.7	32.3	75	Light Green fine grained generally gougy aplite				
			27.7 Minor quartz				
			27.7 - 29.0 Aplite gouge				
			29.0 - 32.3 Sugary, rotten aplite				
			Malachite stains at 29.0, 29.6				
			Manganese dendrites to 33.5				
32.3	36.6	98	Light green fine grained aplite with scattered quartz veingings and blotches to 10 mm wide. (Intensely sericitized plagioclase causes green color)				
			33.8 - 34.4 50% quartz, limonite stained				
			34.4 - 35.0 Quartz vein with malachite, azurite, limonite				
			35.3 - 35.6 Purple Bethsaida. Probably managanese alteration, but could be biotite				
			35.6 - 36.0 Malachite alteration				
			36.3 - 36.6 Purple alteration				
36.6	46.9	80	Mixed interval of purplish manganese altered sections of aplite (40%) and light green aplite (60%). Some of aplite is pinkish, generally intensely sericitic.				

--- DIAMOND DRILL LOG.

Grid No. _____ Property _____ Section No. _____ Hole No. RL83-1

Started	Bearing	Dips	Lat.	Elevation	Location
Completed	Length	Surface Hole	Dep.	Level	Logged by <i>GLS</i>
Standpipe	Casing	Underground Hole	Remarks		

FOOTAGE		Core Re- covered	Description	Assay			Average Values
From	To						
			39.0 Malachite Stain				
			39.3 - 39.6 Gougy				
			39.6 - 42.7 Broken ground 40% recovery				
			42.3 - 45.7 Gougy thro'out especially 44.8 - 45.4				
			43.6 Malachite stain				
			45.4 - 45.7 Bethsaida granodiorite patch with feldspars intensely sericitized				
			45.7 - 46.9 Quartz, aplite, malachite stained, 50% recovery.				
46.9	54.3	80	Moderate to intensely altered Bethsaida granodiorite. Generally light green due to feldspar alteration with darker section of less altered material.				
			48.5 - 48.8 only buttons recovered				
			48.8 - 50.0 50% recovery				
			Malachite stains at 50.3, 50.9, 51.5, 52.4				
54.3	62.8	85	Light green intensely altered Bethsaida. All feldspars light green, mafics destroyed. Occasional blotch of quartz. Generally gougy thro'out.				
			Hole ends at 62.8 M				

--- DIAMOND DRILL LOG.

Grid No. _____ Property Roscoe Lake Section No. _____ Hole No. RL 83-2

Started July 2/83	Bearing 061	Dips -39	Lat. 0+80N	Elevation	Location
Completed July 5/83	Length 60.7	Surface Hole	Dep. 0+60 W	Level	Logged by <i>GMS</i>
Standpipe	Casing 6.4	Underground Hole	Remarks		

FOOTAGE		Core Re- covered	Description	Assay				Average Values
From	To							
0	21	6.4	Overburden					
6.7	26.2	90	Bethsaida Granodiorite. Light brown to pink due to K-Spar and iron staining in ground mass. Medium grained. Plagioclase creamy to light to honey green brown. Moderate to intense sericitization. Scattered darker sections have less K-Spar in ground mass.					
			14.3-14.6 Fresher, Light grey					
			17.1-18.3 Light grey, Broken, Gougy					
			19.2-19.8, 20.4-21.3 Broken					
			22.9-24.4, .3 ^m Rubble recovered, gouge at 22.9					
			24.4-24.7 Gougy					
			24.4-26.2 Fine grained, Dark purple grey with some epidote alteration.					
			25.3-25.6 Green Aplite, very fine grained.					
26.2	33.2	98	Mostly Quartz vein with patches of light green Aplite especially 28.7-29.9					
			26.5, 27.1 Malachite, Azurite, Limonite stained.					
			28.0 Malachite.					
			CTD.					

--- DIAMOND DRILL LOG.

Grid No. _____ Property _____ Section No. _____ Hole No. RL83/2

Started	Bearing	Dips	Lat.	Elevation	Location
Completed	Length	Surface Hole	Dep.	Level	Logged by <i>GS</i>
Standpipe	Casing	Underground Hole	Remarks		

FOOTAGE		Core Re- covered	Description	Assay			Average Values
From	To						
41.5	60.7	95	Light Creamy Green Aplite groundmass with Quartz, Plagioclase Phenocrysts to 2mm. Scattered light purple darker patches of Manganese, more granular. Scattered sections intensely altered Granodiorite. Driller notes mismatch at 43.0 45.7 on scattered Quartz veinings. 50.3 Malachite 51.5 - 51.8 Gougy 53.3 Malachite, Bornite Groundmass becomes purplish from 49.3 - 55.8 56.1 Bornite, Chalcopyrite, Malachite 57.6 - 59.1 Gougy 57.9 - 60.7 60% Recovery End at 60.7 m				

GS

APPENDIX II
ASSAY RESULTS

RL83-1

RL83-2

HIGHMONT OPERATING CORPORATION
P.O. Box 3000
LOGAN LAKE, B.C.
VOK IWO
Tel: (604) 575-2471
Telex: 048-774

TO:

GERRY SANFORD

CERTIFICATE OF ANALYSIS

DATE: July 14, 1983

NO: 006

MARK:	Assay Interval	Tag#	%Cu	%CuOx	%Mo	ppm Ag
Hole RL 83-1	6.4-9.1	1551	.004	.002	< .001	< 1.0
	9.1-12.2	1552	.004	.002	< .001	< 1.0
	12.2-15.2	1553	.006	.003	< .001	< 1.0
	15.2-18.3	1554	.101	.065	< .001	1.9
	18.3-21.3	1555	.018	.012	< .001	1.0
	21.3-24.4	1556	.010	.005	.001	1.0
	24.4-27.4	1557	.040	.032	< .001	< 1.0
	27.4-30.5	1558	.037	.026	< .001	1.0
	30.5-33.5	1559	.020	.014	< .001	< 1.0
	33.5-36.6	1560	.158	.106	.001	1.3
	36.6-39.6	1561	.047	.029	.001	< 1.0
	39.6-42.7	1562	.021	.016	.001	< 1.0
	42.7-45.7	1563	.026	.018	.001	< 1.0
	45.7-48.8	1564	.037	.023	< .001	< 1.0
	48.8-51.8	1565	.063	.041	< .001	1.0
	51.8-54.9	1566	.053	.024	.001	1.3
	54.9-57.9	1567	.021	.004	< .001	< 1.0
57.9-61.0	1568	.026	.002	.003	1.0	
61.0-62.8	1569	.006	.001	.001	< 1.0	



W. TSANG
CHIEF CHEMIST

HIGHMONT OPERATING CORPORATION
P.O. Box 3000
LOGAN LAKE, B.C.
VOK IWO
Tel: (604) 575-2471
Telex: 048-774

TO:

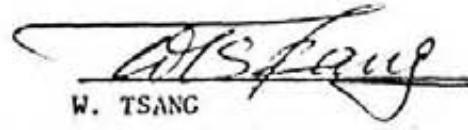
GERRY SANFORD

CERTIFICATE OF ANALYSIS

DATE: July 14, 1983

NO: 007

MARK:	Assay Interval	Tag#	%Cu	%CuOx	%Mo	ppm Ag
Hole RL 83-2	6.4- 9.1	1570	.004	.002	.001	1.0
	9.1-12.2	1571	.004	.001	< .001	< 1.0
	12.2-15.2	1572	.005	.002	< .001	1.0
	15.2-18.3	1573	.003	.002	.001	1.0
	18.3-21.3	1574	.003	.001	.001	1.3
	21.3-24.4	1575	.003	.002	< .001	1.0
	24.4-27.4	1576	.173	.134	< .001	2.3
	27.4-30.5	1577	.363	.276	< .001	2.9
	30.5-33.5	1578	1.09	.75	.001	12.8
	33.5-36.6	1579	.189	.174	.002	1.3
	36.6-39.6	1580	.033	.028	.001	1.0
	39.6-42.7	1581	.028	.027	.002	< 1.0
	42.7-45.7	1582	.011	.008	.001	< 1.0
	45.7-48.8	1583	.010	.008	.001	< 1.0
	48.8-51.8	1584	.038	.023	.001	< 1.0
	51.8-54.9	1585	.101	.037	< .001	1.3
	54.9-57.9	1586	.175	.123	.001	2.5
57.9-60.7	1587	.008	.005	.001	< 1.0	



W. TSANG
CHIEF CHEMIST