

85-509-13824  
LFB

PERCUSSION DRILLING REPORT

ON THE

ROSCOE I MINERAL CLAIM

RECORD NUMBER 440

KAMLOOPS MINING DIVISION

NTS SHEET 921/7

LATITUDE 50°23' N

LONGITUDE 120°58'W

OWNED BY NATIONAL TRUST COMPANY LIMITED

510 Burrard St., Vancouver, B.C. V2C 2J7

OPERATED BY HIGHMONT OPERATING CORPORATION

Box 3000, Logan Lake, B.C. VOK 1W0

Report Prepared By

L.C.H. Tsang

August 15, 1985

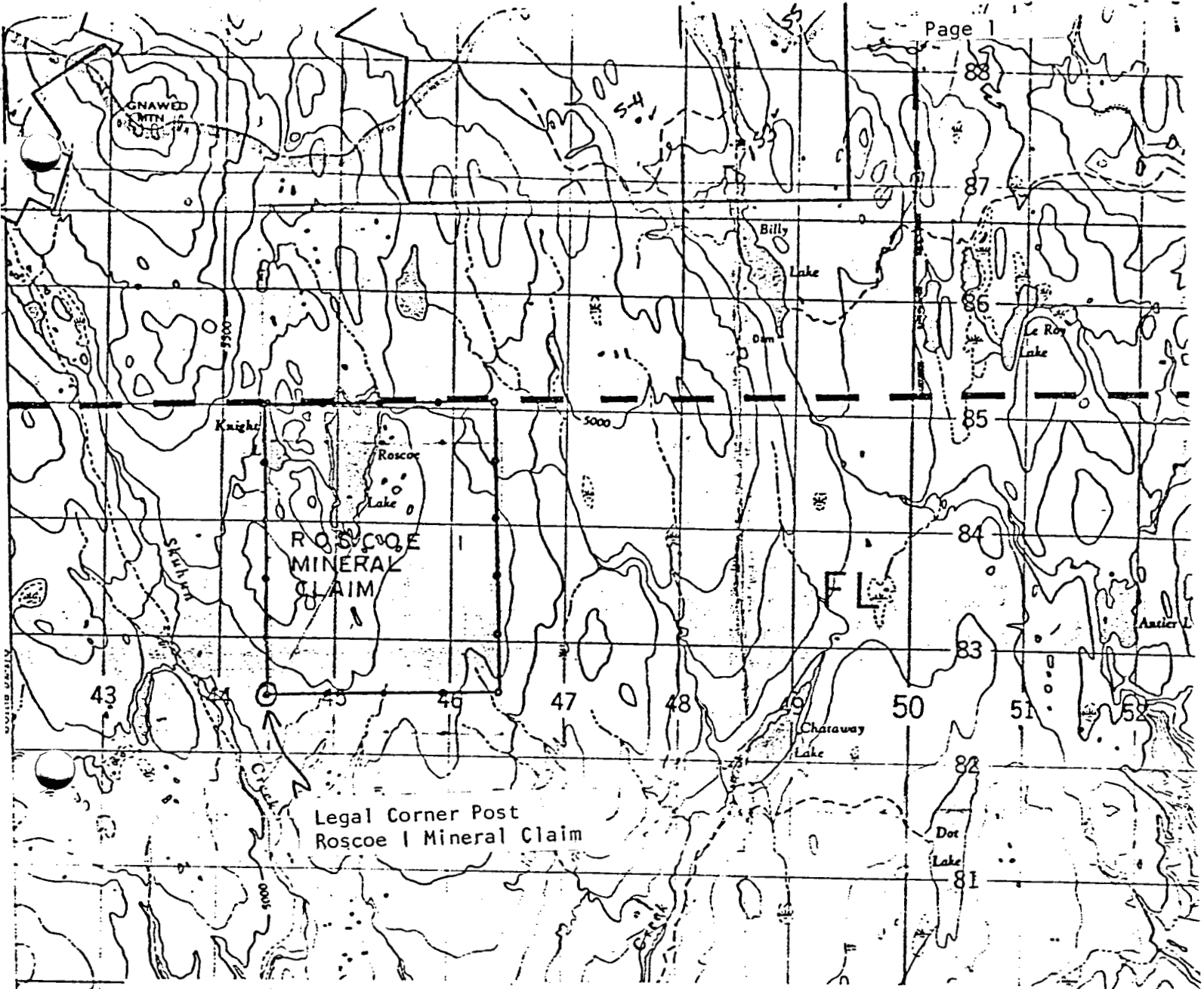
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,824**

PERCUSSION DRILLING REPORT  
ON THE  
ROSCOE I MINERAL CLAIM

TABLE OF CONTENTS

	Page
Index Map, Mamit Lake (92 /7)	1
<u>Introduction</u>	
i) Location and Access	2
ii) Claim Description	2
iii) Summary of Work Done	3
<u>Detail Technical Data and Interpretations</u>	4
i) Purpose	4
ii) Results	4
iii) Interpretations	5
a) General Geology of the Property	5
b) North Zones and South Zones Drilling	5
c) Drilling Results	6
South Zone	6
RL-84-#3	6
Section 3.1 m to 12.2 m	6
Section 24.4 m to 45.7 m and 57.9 m to 85.3 m	7
RL-84-#6	7
RL-84-#8	7
North Zone	8
RL-84-#5	8
RL-84-#4 (Mid-way between North & South Zones)	8
iv) Conclusions	8
Itemized Cost Statement	10
Author's Qualifications	12
Appendix I Drill Assays	13
Appendix II A legend describing the codings and abbreviations noted on Drill Cuttings logs.	20
Appendix III Drill Cuttings Logs	23
Figure 2 Drill Hole Location Plan	in Pocket



**MAMIT LAKE**  
 KAMLOOPS DIVISION OF YALE DISTRICT  
 BRITISH COLUMBIA

SCALE 1:50,000 ÉCHELLE

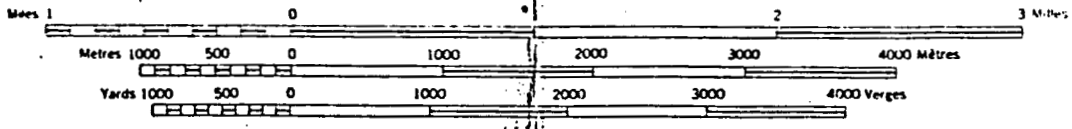
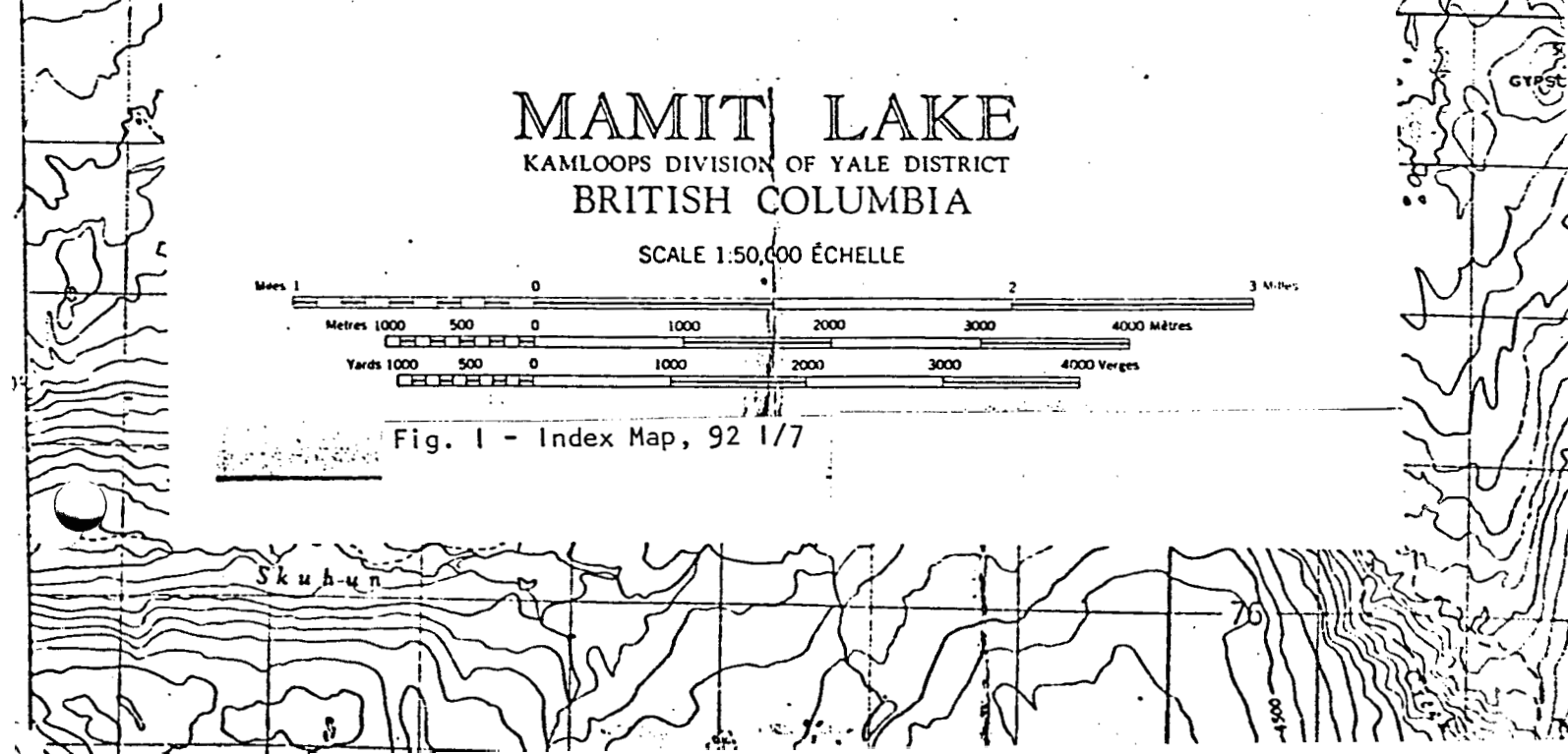


Fig. 1 - Index Map, 92 1/7



PERCUSSION DRILLING REPORT

ON THE

ROSCOE I MINERAL CLAIM

---

Introduction

i) Location and Access

The Roscoe I Mineral Claim of 20 units is located in the Highland Valley, 10.5 km due west of Mamit Lake. The legal corner post lies 1.6 km southwest of the south end of Roscoe Lake. Most of 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 road, suitable for 4 wheel drive traffic.

ii) Claim Description

The Roscoe I 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.

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) "Drilling Report on the Roscoe 1 Mineral Claim" by G.R. Sanford, July 15, 1983.

iii) Summary of Work Done

#### Drilling

Six 5-cm diameter percussion holes were drilled on the Roscoe 1 Mineral Claim, for a length totalling to 484.6 metres.

DETAIL TECHNICAL DATA AND INTERPRETATIONS

i) Purpose

Within Roscoe I Mineral Claim, two small pockets of spectacular quartz-bornite chalcopyrite mineralization have been found by previous exploration work along the western margin of the local aplite dyke at the south of Roscoe Lake (see figure 2). They are named North Zone and South Zone.

The eastern margin of the dyke is not exposed. It is believed to be underneath the long swamp area (see figure 2) which extends southwards from Roscoe Lake.

The purpose of '84 drilling is to explore both the eastern and western margins of the dyke between those two mineralized zones.

ii) Results

All drilling was done under contract by Tonto Drilling Company of Vancouver, B.C. A truck mounted percussion drill employing a 5-cm bit was used.

All other work associated with this program was done by Highmont Operating Corporation utilizing Highmont personnel.

Drill cuttings were logged by L. Tsang at the Highmont mine site. Sample preparation and assays for copper, molybdenum and silver were done using atomic absorption techniques at Highmont's assay laboratory. Silver assays were only done on those assay intervals considered to be ore, through logging cuttings.

Most of the drill rejects were saved at the Highmont mine site. Drill assays are tabulated in Appendix I and the drill cuttings logs are attached as Appendix III. Appendix II contains a legend describing the codings and abbreviations noted on the drill logs.

The collars of percussion drill holes were tied into historical local soil grid. (see figure 2)

<u>Hole #</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Length</u>	<u>Collar</u>	<u>Coordinates</u>	<u>Elevations</u>
RL 84-3	250 <sup>o</sup>	60 <sup>o</sup>	280'	8.0 S	1.5 W	1585 m.
RL 84-4	--	90 <sup>o</sup>	280'	5.5 S	1.0 E	1585 m.
RL 84-5	90 <sup>o</sup>	60 <sup>o</sup>	270'	2.5 S	2.0 W	1585 m.
RL 84-6	270 <sup>o</sup>	60 <sup>o</sup>	270'	11.0 S	1.0 W	1585 m.
RL 84-7	90 <sup>o</sup>	60 <sup>o</sup>	280'	1.0 S	3.0 E	1585 m.
RL 84-8	90 <sup>o</sup>	60 <sup>o</sup>	210'	9.5 S	4.5 W	1585 m.

### iii) Interpretations

#### a) General Geology of the Property

The geology of the Highland Valley has been described by K.E. Northcote in Bulletin 56 of the British Columbia Department of Mines and Petroleum Resources. Northcote divided the essentially granodiorite Guichon Creek Batholith into 6 phases and a number of sub-phases or varieties. The youngest phase is called the Bethsaida and this occupies the central part of the outcrop of the Guichon Creek Batholith. The ROSCOE 1 claim units lie close to the edge of the outcrop to the Bethsaida phase and probably include part of the slightly older Skeena phase. An aplite dyke is exposed at the south of Roscoe Lake for a distance of 426.7 m. along its strike N 10<sup>o</sup>E. The dyke appears to be bifurcated, or branched, at its southern end, and has a width of at least 152.4 m.

#### b) North Zones and South Zone drilling

Two mineralized zones (North and South Zones) were exposed, by previous trenching and drilling work, within the intensely altered aplite dyke close to the western margin of the dyke.

In the present program, six percussion holes were drilled between those two zones (see figure 2). To test the extent of those mineralized zones, three holes were drilled around the South zone; two around the North zones and one at mid-way between those two zones.

## c) Drilling Results

The following describes the drilling results around those zones:

SOUTH ZONE

Three holes (RL-84 -#3, #6 & #8) were collared in a triangle to test the extent of the mineralized South zone. The drilling results have identified the mineralized area, having a diameter of at least 70 meters long and to a vertical depth of at least 71.2 meters. For hole RL-84-#8 and at its intersection of high copper grades, the silver values were found to be greater than 3.4 g /tonne . The following paragraphs describe, hole by hole, the drilling results.

RL-84-#3 (see figure 2 for its location)

It was collared 54 m. northeast of the South zone and was drilled roughly west. The hole encountered three sections of marginal material with a grade better than 0.15 % CuE (see Appendix 1). These sections represent a total of 58 m. of drilling which assayed 0.13% Cu and .005% Mo. They are sections 3.1 m to 12.2 m (9.1m), 24.4 m to 45.7 m (21.3 m) and 57.9m to 85.3M (27.4 m)

Section 3.1 m to 12.2 m

This section consists of aplite material with probably biotite phenocrysts (based on the trench mapping of the area in 1971 and was reported in the "Report on Geological & Geochemical work on the Pen Claims", by A.J. Reed, February 26, 1971). The drill cuttings log (see Appendix 3) indicates the presence of copper minerals consisting of bornite and malachite. Sericite and clay minerals are the dominate alteration products. The comparatively high copper grades (+.18% Cu) found on this section is partly contributed to the presence of copper oxide minerals.

<sup>+</sup> CuE = Copper equivalent values according to Highmont standards.



Section 24.4 m to 45.7 m and 57.9m to 85.3 m

These sections consist of aplite material ranging in colour from white to greenish tint. The copper minerals present are chiefly chalcopyrite together minor bornite, chalcocite and malachite. Serecite and clay minerals were found generally increasing with depth. However, assay results only show copper and moly grades slightly better at depth.

RL-84-#6

It was collared at 70 m southeast of the South Zone and was drilling west (see figure 2). The hole encountered copper mineralization below 64 meters of drilling which assayed with .28% Cu, .005% Mo and 1.4 gm/tonne Ag for a length of 15.2 meters to the bottom of the hole. (see Appendix 1)

The hole first intersects hematitic aplite with biotite phenocrysts to a hole depth of 67 meters. The alteration products found on this section are clay, chlorites and carbonates or associated varieties with less significant serecite. Only traces of copper and molybdenum were detected in the assay results.

The section, from 67.1 m to the end of the hole, consists of fine-grained aplite (see cuttings log in Appendix 3). The last 15.2 meters of drilling were assayed with 0.28% Cu, .005% Mo and 1.4 g/tonne, Ag. The chief copper mineral present is chalcopyrite.

RL-84-#8

The hole was collared at 61 m west of the South Zone and was drilled east with a dip angle of 60°. The hole first encountered material with marginal grade higher than 0.1% Cu at a drilling depth of 27.4 m and began to intersect high copper grade section at a drilling depth of 39.6 m. The assay results show that the last 24.4 meters of drilling was averaged with 0.4% Cu, 0.005% Mo and 4.2 g/tonne Ag.

The entire hole intersects aplite material ranging in colour from white to yellowish brown with significant secondary quartz, serecite and clay alteration products.

The chief copper minerals consists of chalcopyrite and bornite with minor amount of chalcocite oxide minerals such as hematite and malachite are also present.

#### NORTH ZONE

Two holes (R1-84-#7 and #5, see figure 2) were collared to the south and east of the North Zones. R1-84-#5 intersects a short section (9.1 m) of mineralized zone and R1-84-#7 is barren. The drilling result is therefore discouraging.

#### RL-84-#5

The first half of the hole consist of oxidized dirty aplite while the lower half consists of fine grained yellowish aplite with biotite phenocrysts. Serecite and clay minerals are significant over the entire hole. The mineralized section 15.2 to 24.4 m, consist of mineralization chiefly of chalcopyrite and malachite with minor bornite.

#### RL-84-4 (Mid-way between North & South Zones.)

The hole was collared at mid-way between North and South Zones. 70.1 meters east of their lineation. The assay results were discouraging, with only 3.1 m section from 54.9 m to 57.9 M what assayed .08% Cu and .043% Mo, being considered ore by Highmont standards.

Rock alteration was generally moderate with significant amount of serecite and clay minerals.

#### (iv) Conclusions

##### South Zone

'84 drilling has delineated the South mineralized zone as an area extending 35 metres in radius and to a depth of at least 70 metres. The zone is open to the west and the southwest where the contacts between Bethsaida and Aplite are found. However, due to the present interruption of Highmont operation and poor metal prices, further exploration work of the ground will be deferred.

North Zone

'83 and '84 drillings failed to verify any lateral and/or vertical extent of the mineralized zones in the area. Therefore, no further exploration work is recommended.

## ITEMIZED COST STATEMENT

## ROSCOE 1 MINERAL CLAIM

- 1) Percussion Drilling
  - Tonto Drilling Company
  - November 9th to 16th, 1984
  - Six 5-cm size holes, totalling 484.6 meters  
at \$28.00 per meter of drilling all inclusive .....\$13,529.70
  
- 2) Assays
  - 152 samples prepared and analyzed for two  
elements (copper and molybdenum) at \$13/sample..... 1,976.00
  - 13 samples prepared and analyzed for silver  
element at \$13/sample..... 169.00
  
- 3) Core Logging
  - L.H.C. Tsang, Chief Geologist - Highmont Operating Corporation
  - 3 days @ \$180.00/day (November 7th to 30th, 1984)..... 540.00
  
- 4) Surveying
  - Marked up drill collars from field known points
  - M. Porter, Geological technician - Highmont Operating Corporation
  - 1 day @ \$135.00/day..... 135.00
  
- 5) Preparation of drill sites
  - #966 Front-end loader used (November 7th to 14th, 1984)
  - Total 14 hours @ \$45.00/hr..... 630.00
  
- 6) Supervision of Drilling
  - M. Porter - (November 7th to 16th, 1984)
  - 9 days @ \$135.00/day..... 1,215.00
  
- 7) Transportation
  - 4-wheel drive vehicle used (November 7th to 16th, 1984)
  - 9 days @ \$25.00/day..... 225.00

8) Planning Drill Program  
 L.H.C. Tsang - Highmont Operating Corporation  
 4 days @ \$180.00/day..... 720.00

9) Drafting  
 M. Porter - Highmont Operating Corporation  
 16 hours @ \$17.00/hr..... 272.00

10) Report Writing  
 L.H.C. Tsang - Highmont Operating Corporation  
 6 Days @ \$180.00/day..... 1,080.00

11) Miscellaneous Consumables  
 Such as Stakes, Flagging, Sample Bags etc..... 100.00

GRAND TOTAL \$20,591.70

AUTHOR'S QUALIFICATION:

1, Louis Tsang, of Logan Lake, British Columbia, so hereby certify that:

1. I am a graduate of the University of British Columbia with a B.Sc. degree (1972) in geology and geophysics.
2. I am a member of the Geological Association of Canada
3. I have practiced my profession since 1972 while employed by Bacon & Crowhurst Consulting Engineering Ltd., (one summer season), and by Zapata - Granby Corporation, Granisle Division (seven years).
4. Present, I am employed by Highmont Operating Corporation Ltd., P.O. Box 3000, Logan Lake, B.C.
5. I have directed the drilling program described herein.



---

Louis H.C. Tsang  
Chief Geologist  
Highmont Operating Corporation

APPENDIX I  
ASSAY RESULTS  
RL84-3 to RL84-8

HIGHMONT OPERATING CORPORATION  
 ROSCOE LAKE

HOLE RL -84 - #3

DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo
0-10	0 - 3.05	.03	.001		
10-20	3.05- 6.10	.14	.002		].18/.001
20-30	6.10- 9.14	.25	.001		
30-40	9.14-12.19	.15	.001		
40-50	12.19-15.24	.07	.001		
50-60	15.24-18.29	.05	.005		
60-70	18.29-21.34	.02	.002		
70-80	21.34-24.38	.02	.002		
80-90	24.38-27.43	.10	.005		].12/.005
90-100	27.43-30.48	.09	.009		
100-110	30.48-33.53	.19	.004		
110-120	33.53-36.58	.07	.002		
120-130	36.58-39.62	.11	.004		
130-140	39.62-42.67	.18	.006		
140-150	42.67-45.72	.11	.004		
150-160	45.72-48.77	.07	.002		
160-170	48.77-51.82	.08	.007		
170-180	51.82-54.86	.08	.005		
180-190	54.86-57.91	.07	.003		
190-200	57.91-60.96	.11	.004		].14/.007
200-210	60.96-64.01	.13	.010		
210-220	64.01-67.06	.17	.010		
220-230	67.06-70.10	.11	.007		
230-240	70.10-73.15	.18	.007		
240-250	73.15-76.20	.18	.005		
250-260	76.20-79.25	.13	.004		
260-270	79.25-82.30	.13	.006		
270-280	82.30-85.34	.10	.006		



## HIGHMONT OPERATING CORPORATION

## ROSCOE LAKE

HOLE RL - 84 - #4

## DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo
0-10	0 - 3.05	--	--		
10-20	3.05- 6.10	290 ppm	6ppm		
20-30	6.10- 9.14	.01	Tr		
30-40	9.14-12.19	.01	Tr		
40-50	12.19-15.24	.01	Tr		
50-60	15.24-18.29	.01	Tr		
60-70	18.29-21.34	.01	Tr		
70-80	21.34-24.38	.01	Tr		
80-90	24.38-27.43	Tr	Tr		
90-100	27.43-30.48	Tr	Tr		
100-110	30.48-33.53	Tr	Tr		
110-120	33.53-36.58	Tr	Tr		
120-130	36.58-39.62	Tr	Tr		
130-140	39.62-42.67	Tr	Tr		
140-150	42.67-45.72	Tr	Tr		
150-160	45.72-48.77	Tr	Tr		
160-170	48.77-51.82	Tr	Tr		
170-180	51.82-54.86	.01	.006		
180-190	54.86-57.91	.08	.043		.08/.043
190-200	57.91-60.96	.03	.009		
200-210	60.96-64.01	.02	.004		
210-220	64.01-67.06	.02	.002		
220-230	67.06-70.10	.01	.002		
230-240	70.10-73.15	.01	.002		
240-250	73.15-76.20	.01	.002		
250-260	76.20-79.25	.01	.002		
260-270	79.25-82.30	.02	.002		
270-280	82.30-85.34	.01	.002		

## HIGHMONT OPERATING CORPORATION

## ROSCOE LAKE

HOLE RL - 84 - #5

## DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo
0-10	0 - 3.05	---	---		
10-20	3.05- 6.10	.01	.001		
20-30	6.10- 9.14	.01	.001		
30-40	9.14-12.19	.01	.001		
40-50	12.19-15.24	.08	.002		
50-60	15.24-18.29	.17	.006		
60-70	18.29-21.34	.36	.004		} .23/.004
70-80	21.34-24.38	.18	.003		
80-90	24.38-27.43	.09	.002		
90-100	27.43-30.48	.09	.002		
100-110	30.48-33.53	.05	.002		
110-120	33.53-36.58	.04	.002		
120-130	36.58-39.62	.04	Tr		
130-140	39.62-42.67	.03	Tr		
140-150	42.67-45.72	.04	.001		
150-160	45.72-48.77	.04	.001		
160-170	48.77-51.82	.03	Tr		
170-180	51.82-54.86	.03	Tr.		
180-190	54.86-57.91	.03	Tr		
190-200	57.91-60.96	.03	Tr		
200-210	60.96-64.01	.02	Tr		
210-220	64.01-67.06	.03	Tr		
220-230	67.06-70.10	.03	Tr		
230-240	70.10-73.15	.04	Tr		
240-250	73.15-76.20	.04	Tr		
250-260	76.20-79.25	.03	.001		
260-270	79.25-82.30	.03	.001		
270-280	82.30-85.34				

## HIGHMONT OPERATING CORPORATION

## ROSCOE LAKE

HOLE RL - 84 - #6

## DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo/oz/ton Ag
0-10	0 - 3.05	.02	Tr		
10-20	3.05- 6.10	.03	Tr		
20-30	6.10- 9.14	.01	Tr		
30-40	9.14-12.19	.01	Tr		
40-50	12.19-15.24	Tr	Tr		
50-60	15.24-18.29	Tr	Tr		
60-70	18.29-21.34	Tr	Tr		
70-80	21.34-24.38	Tr	Tr		
80-90	24.38-27.43	Tr	Tr		
90-100	27.43-30.48	Tr	Tr		
100-110	30.48-33.53	Tr	Tr		
110-120	33.53-36.58	Tr	Tr		
120-130	36.58-39.62	Tr	Tr		
130-140	39.62-42.67	Tr	Tr		
140-150	42.67-45.72	Tr	Tr		
150-160	45.72-48.77	.04	Tr		
160-170	48.77-51.82	.03	Tr		
170-180	51.82-54.86	.02	Tr		
180-190	54.86-57.91	.01	Tr		
190-200	57.91-60.96	.01	Tr		
200-210	60.96-64.01	.01	Tr		
210-220	64.01-67.06	.03	.003		
220-230	67.06-70.10	.15	.006	.009	
230-240	70.10-73.15	.56	.007	.012	
240-250	73.15-76.20	.40	.005	.125	} .28/.005/.04
250-260	76.20-79.25	.17	.003	.047	
260-270	79.25-82.30	.11	.002	.026	
270-280	82.30-85.34				

## HIGHMONT OPERATING CORPORATION

## ROSCOE LAKE

HOLE RL - 84 - #7

## DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo
0-10	0 - 3.05	--	--		
10-20	3.05- 6.10	Tr	Tr		
20-30	6.10- 9.14	Tr	Tr		
30-40	9.14-12.19	Tr	Tr		
40-50	12.19-15.24	Tr	Tr		
50-60	15.24-18.29	Tr	Tr		
60-70	18.29-21.34	Tr	Tr		
70-80	21.34-24.38	Tr	Tr		
80-90	24.38-27.43	Tr	Tr		
90-100	27.43-30.48	Tr	Tr		
100-110	30.48-33.53	Tr	Tr		
110-120	33.53-36.58	Tr	Tr		
120-130	36.58-39.62	Tr	Tr		
130-140	39.62-42.67	Tr	Tr		
140-150	42.67-45.72	Tr	Tr		
150-160	45.72-48.77	Tr	Tr		
160-170	48.77-51.82	Tr	Tr		
170-180	51.82-54.86	Tr	Tr		
180-190	54.86-57.91	Tr	Tr		
190-200	57.91-60.96	Tr	Tr		
200-210	60.96-64.01	Tr	Tr		
210-220	64.01-67.06	Tr	Tr		
220-230	67.06-70.10	Tr	Tr		
230-240	70.10-73.15	Tr	Tr		
240-250	73.15-76.20	Tr	Tr		
250-260	76.20-79.25	Tr	Tr		
260-270	79.25-82.30	Tr	Tr		
270-280	82.30-85.34	Tr	Tr		

## HIGHMONT OPERATING CORPORATION

## ROSCOE LAKE

HOLE RL - 84 - #8

## DRILL HOLE ASSAYS:

FOOTAGE	METERS	% Cu	% Mo	Ag (Oz/Ton)	Average % Cu/%Mo /Oz/ton Ag
0-10	0 - 3.05	--	--		
10-20	3.05- 6.10	.02	.001		
20-30	6.10- 9.14	.01	.001		
30-40	9.14-12.19	.01	.001		
40-50	12.19-15.24	.02	.001		
50-60	15.24-18.29	.04	.001		
60-70	18.29-21.34	.04	.001		
70-80	21.34-24.38	.03	.001		
80-90	24.38-27.43	.03	Tr		
90-100	27.43-30.48	.10	.001		
100-110	30.48-33.53	.13	.002		.14/.001
110-120	33.53-36.58	.19	.001		
120-130	36.58-39.62	.14	.001		
130-140	39.62-42.67	.32	.007	.128	.40/.005/.123
140-150	42.67-45.72	.28	.006	.111	
150-160	45.72-48.77	.22	.003	.097	
160-170	48.77-51.82	.20	.004	.079	
170-180	51.82-54.86	.17	.004	.055	
180-190	54.86-57.91	.70	.006	.155	
190-200	57.91-60.96	.55	.004	.146	
200-210	60.96-64.01	.74	.006	.213	
210-220	64.01-67.06				
220-230	67.06-70.10				
230-240	70.10-73.15				
240-250	73.15-76.20				
250-260	76.20-79.25				
260-270	79.25-82.30				
270-280	82.30-85.34				

- APPENDIX II

LEGEND & CODING USED IN  
LOGGING BOREHOLE CUTTINGS

LEGEND & CODING USED IN LOGGING DRILL CUTTINGS

Legend

For Quarts (under the column ESSENTIAL MINERALS) Content

- ✓ <5% of cutting content
- \* 5 - 10% of cuttings content
- \*\* >10% of cuttings content

For Other Minerals

- ✓ Mineral present
- \* Mineral significant
- \*\* Mineral very significant

For Intensity of Alteration (A)

- L Lightly altered
- M Medium alteration
- I Intensely altered

CODINGMINERALS

1.	Orthoclase	KF	
2.	Plagioclase	PC	
3.	Quartz	QU	
4.	Biotite	BI	
5.	Hornblende	HO	
6.	Muscovites	MU	Collective Term
7.	Pyrite	PY	
8.	Clay	CY	Collective Term
9.	Chlorite	CL	
10.	Epidote	EP	
11.	Carbonates	CB	Collective Term
12.	Chalcopyrite	CP	
13.	Molybdenite	MO	
14.	Bornite	BN	
15.	Chalcocite	CC	
16.	Hematite and/or (Magnetite)	HE	Collective Term
17.	Copper oxide minerals	OX	Collective Term
18.	Copper	CU	
19.	Molybdenum	MOS <sub>2</sub>	
20.	Silver	AG	
21.	Malachite	ML	



APPENDIX III  
PERCUSSION DRILL HOLE LOGS  
RL 84 - 3 to RL 84 - 8

BOREHOLE CUTTING LOG

Hole No	Essential Minerals				Secondary minerals								Intensity of St	Rock Type	Mineralization								Assay		Remarks/Date
	Feldspar KF, FC	QU	Mafic BI, HO		QU	KF	BI	MU	PY	CY	CL	EP			CB	CP	MO	BN	CC	PY	HE	MA	Mo	Cu	
0-10	YELLOW	*			✓			*	*				*	I	✓					✓	001	.03	oxidized cutting		
10-20	YELLOW-BROWN	*			✓			*	*				*	I		✓				*	002	.14			
20-30	BROWN	*	✓		*			✓	*	✓		*	Z		*					*	001	.25			
30-40	YELLOW	*	✓		✓			*	*	✓		*	I	✓	✓					*	001	.15			
40-50	YELLOW	*	✓		*			*	*			*	I	*						✓	001	.07			
50-60	YELLOW	*			*			*	*			*	I	*	✓						005	.05			
60-70	GREEN	*			✓			*	*			*	I	✓							002	.02			
70-80	GREEN-BROWN	✓			✓			*	*	✓		*	Z	✓?	*				✓	✓	002	.02			
80-90	GREEN	✓			✓			*	*	✓		*	Z	*	✓					*	005	.10			
90-100					*			*	*	✓		*	Z	*	✓	✓				*	009	.09	aplite (green)		
100-110					✓			✓	*			*		*	✓	✓					004	.19	aplite (yellow)		
110-120								✓	*			*		*	✓				✓		002	.07	aplite (yellow)		
120-130					✓			*	✓			*		*	✓						004	.11	aplite (greenish tint)		
130-140					✓			✓	*			*		*	✓	✓					006	.18	aplite (white)		
140-150								✓	*			*		*	?						004	.11	aplite (white)		
150-160								✓	*			*		*	✓?						002	.07	aplite (white)		
160-170								✓	*			*		*	?						007	.08	aplite (white)		
170-180								✓	*			*		*	?						005	.08	aplite (white)		
180-190								*	*			*		*	✓						003	.07	aplite (greenish tint)		
190-200					✓			*	*			*		*	✓	✓					004	.11	aplite (greenish tint)		
200-210	GREEN	*			✓			*	*	✓		*		*	?	✓					010	.13			
210-220					✓			*	*			*		*	*						010	.17	aplite (greenish tint)		
220-230								*	*			*		*	*	?			✓		007	.11	aplite (greenish tint)		
230-240					✓			✓	*	✓		*		*	?				✓		007	.18	aplite (greenish tint with spotted brown)		
240-250					✓			✓	*	✓		*		*	*					*	005	.18	aplite (greenish tint with spotted brown)		
250-260	WHITE-BROWN	✓	✓		✓			*	*	✓		*		*	*					✓	004	.13			
260-270								✓	*			*		*	✓					✓	006	.13	aplite (spotted brown)		
270-280	WHITE-BROWN	✓	✓		✓			*	*	✓		*		*	*	?				✓	006	.10			

ROSCOE LAKE  
RL 84-4

BOREHOLE CUTTING LOG

Hole No 84-4	Essential Minerals				Secondary minerals									Intensity of St	Rock Type	Mineralization							Assay		Remarks/Date
	Feldspar KF PC	QU	Mafic BI HO		QU	KF	BI	MU	PY	CY	CL	EP	CB			CP	MO	BN	CC	PY	HE	Mo	Cu		
10-20																				6 ppm	270 ppm	OVERBUDEN			
20-30																?			✓	TR	01	oxidized cutting			
30-40																			✓	TR	01	oxidized cutting			
40-50																			✓	TR	01	oxidized cutting			
50-60																?			✓	TR	01	oxidized cutting			
60-70																			✓	TR	01	oxidized cutting			
70-80	YELLOW-BROWN	*					✓	✓		*	*	✓	✓						✓	TR	01	oxidized cutting			
80-90	YELLOW-BROWN	*					✓	✓		*	*	✓	✓						✓	TR	TR	oxidized cutting			
90-100	YELLOW-BROWN	*	✓				✓	✓		*	*	✓	M						✓	TR	TR	oxidized cutting (light)			
100-110	YELLOW-BROWN	*	✓				✓	✓		*	*	✓	M						✓	TR	TR	oxidized cutting (light)			
110-120	YELLOW-BROWN	*	✓				✓	✓		*	*	✓	M						✓	TR	TR				
120-130	WHITE-BROWN	*	✓					✓		*	*	✓	M						✓	TR	TR				
130-140	WHITE-BROWN	*	✓				✓	✓		*	*	✓	M						*	TR	TR				
140-150	WHITE-BROWN	*	✓					✓		*	*	✓	M						*	TR	TR				
150-160	*	*	*	✓				✓		*	*	✓	M						*	TR	TR				
160-170	*	*	*	✓				✓		*	*	✓	M			?			*	TR	TR				
170-180	YELLOW-BROWN	*	✓					✓		*	*	✓	M		✓				*	006	01				
180-190	YELLOW	*	✓					✓		*	*	✓	M		✓	✓			✓	043	08				
190-200	YELLOW	*	✓					✓		*	*	✓	M		✓	?			✓	009	03				
200-210	*	*	*	✓				✓		*	*	✓	M						✓	004	02				
210-220	YELLOW	✓	✓					✓		*	*	✓	M						*	002	02				
220-230	*	*	✓	✓				✓		*	*	✓	M						*	002	01				
230-240	*	*	✓	✓				✓		*	*	✓	M						✓	002	01				
240-250	*	*	✓	✓				✓		*	*	✓	M						✓	002	01				
250-260	GREENISH TINT	✓	✓					✓		*	*	✓	M						✓	002	01				
260-270	GREENISH TINT	✓	✓					✓		*	*	✓	M						✓	002	02				
270-280	GREENISH TINT	✓	✓					✓		*	*	✓	M						✓	002	01				

ROSCOE LAKE  
RL 84 - 5

BOREHOLE CUTTING LOG

Hole No	Essential Minerals				Secondary minerals								Intensity of St	Rock Type	Mineralization								Assay		Remarks/Date
	Feldspar KF PC	QU	Mafic BI HO		QU	KF	BI	MU	PY	CY	CL	EP			CB	CP	HO	BN	CC	PY	HE	MA	Mo	Cu	
10-20	BROWN	✓	✓		✓	✓	✓	✓	★										★	✓	001	01	oxidized cutting		
20-30	BROWN	✓	✓		✓	★	★	★	★	✓									★		001	01	oxidized cutting		
30-40	BROWN	✓				✓	★	★	★	★				?					✓		001	01	oxidized cutting		
40-50	WHITE-BROWN	✓			✓		★	★						✓					✓	★	002	08	oxidized cutting		
50-60	WHITE-BROWN	✓					★		✓					✓	✓				✓	★	006	17	lightly oxidized		
60-70	YELLOW-BROWN	✓			✓		★	★	✓	✓	★		I	★					★	★	004	36	lightly oxidized		
70-80	BROWN	✓					★	★					I	★	?				★	★	003	18			
80-90	BROWN	✓					★		✓				I	✓	✓				✓		002	09			
90-100	BROWN	✓			✓		★	★					I	?					★		002	09	oxidized		
100-110	BROWN	✓			✓		★	★					I	?					✓		002	05	oxidized		
110-120	YELLOW-BROWN	★					★	★	✓	✓	✓		I	?	✓				✓		001	04	fine grain cutting		
120-130	YELLOW-BROWN	★					✓	★	✓	✓	✓		I		?				★	✓	TR	04			
130-140	YELLOW	✓	★				✓	★	✓	✓	✓		M						✓		TR	03			
140-150	YELLOW-BROWN						★		✓	✓	✓		I		✓				✓		001	04			
150-160			✓				✓	✓		✓											001	04	Aplite (mainly)		
160-170		YELLOW						✓		✓									✓		TR	03	Aplite		
170-180		YELLOW	✓				✓	✓	★						✓				✓	✓	TR	03	Aplite (mainly)		
180-190		YELLOW						✓							✓				✓	✓	TR	03	Aplite		
190-200		YELLOW	✓					✓	★		✓								✓	✓	TR	03	Aplite (mainly)		
200-210		YELLOW	✓					✓	★										✓		TR	02	Aplite (mainly)		
210-220		YELLOW-BROWN	✓						★										✓		TR	03	Aplite		
220-230		YELLOW-BROWN	✓					✓	★		✓								✓		TR	03	Aplite (mainly)		
230-240		YELLOW	✓				✓	✓	★		✓	✓				?			✓		TR	04	Aplite (mainly)		
240-250		YELLOW	✓				✓	✓	★		✓										TR	04	Aplite (mainly)		
250-260		YELLOW	✓					✓	★		✓	✓							✓		001	03	Aplite (mainly)		
260-270		YELLOW						✓	★										✓		001	03	Aplite (mainly)		

ROSCOE LAKE  
RL-84-6

BOREHOLE CUTTING LOG

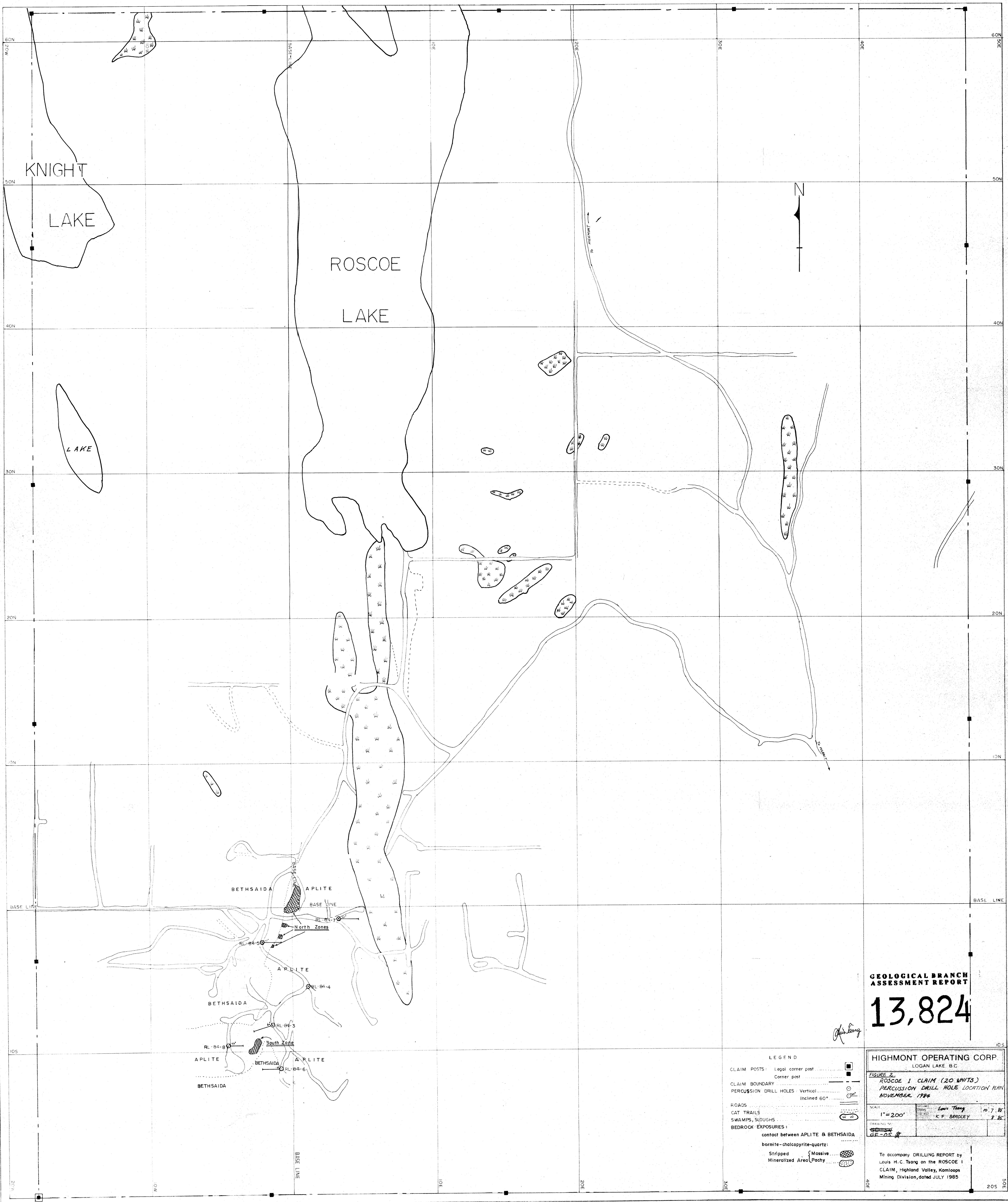
Hole No 84-6	Essential Minerals			Secondary minerals										Intensity of A	Rock Type	Mineralization								Assay		Remarks/Date
	Feldspar KF:PC	QU	Mafic BI:NO	QU	KF	BI	MU	PY	CY	CL	EP	CB	CP			MO	BN	CC	PY	HE	HL	Mo	Cu			
10-20	GREENISH TINT	✓	✓	✓			✓					✓	I						✓		TR	02				
20-30	BROWN	✓	✓				✓	✓	*	✓	✓	✓	I			?			✓	✓	TR	03				
30-40	YELLOW-BROWN	*	*				✓		*	✓		L							✓		TR	01				
40-50	YELLOW-BROWN	*	*				✓	✓	*	*	✓	M							✓		TR	01				
50-60	YELLOW-BROWN	*	✓				✓	✓	*	*	✓	M							✓		TR	TR				
60-70	* YELLOW-BROWN	*	✓				✓		*	*	✓	M							✓		TR	TR				
70-80	* YELLOW	*	✓				✓	✓	*	*	✓	M							✓		TR	TR				
80-90	✓ YELLOW	✓	✓				*	*	*	*	✓	M							✓		TR	TR				
90-100	YELLOW-GREEN	*	✓				*	*	*	*	✓	M							*		TR	TR				
100-110	GREEN	*	✓				*	*	*	*	✓	M							*		TR	TR				
110-120	WHITE-GREEN	*	✓				✓		*	*	✓	M							*		TR	TR				
120-130	GREENISH TINT	*					✓		*	*	✓	M							*		TR	TR				
130-140	GREENISH TINT	*					✓		*	*	✓	M							✓		TR	TR				
140-150	GREENISH TINT	✓					✓		*	*	✓	M							✓		TR	TR				
150-160	GREENISH TINT	✓	✓				*	*	*	*	✓	M							✓		TR	04				
160-170	GREENISH TINT	*	✓				*	*	*	*	✓	M			?				✓		TR	03				
170-180	GREENISH TINT	✓	✓				*	*	*	*		M			✓				✓		TR	02				
180-190	WHITE-GREEN	✓	✓				✓		*	*	*	M							✓		TR	01				
190-200	WHITE-GREEN	✓	✓				✓		*	*	✓	M							✓		TR	01	fine grain cutting			
200-210	WHITE-GREEN	✓	✓				✓		*	*	✓	M							*		TR	01	fine grain cutting			
210-220	GREENISH TINT		✓				*	*	*	*	✓	M				?					003	03				
220-230		WHITE	✓				*	*	*	*	✓			✓		✓					006	15	Aplite Ag-0090%			
230-240		WHITE					✓		✓	✓				*					?		007	56	fine grain Aplite Ag-012%			
240-250		WHITE	✓				✓		✓	✓	✓			*					?		005	40	Aplite Ag-.125%			
250-260		WHITE	✓				✓		✓	✓	✓			*		✓					003	17	Aplite Ag-.047%			
260-270		WHITE	✓				✓		✓	✓	✓			*					✓		002	11	Aplite Ag-.026%			

BOREHOLE CUTTING LOG

Hole No	Essential Minerals			Secondary minerals									Intensity of Ab	Rock Type	Mineralization							Assay		Remarks/Date
	Feldspar KF, PC	QU	Mafic BI, HO	QU	KF	BI	MU	PY	CY	CL	EP	CB			CP	MO	BN	CC	PY	HE	ML	Mo	Cu	
24-7																								
10-20	BROWN	✓	✓				✓	✓				✓	I		?			✓	✓		TR	TR		
20-30	BROWN	✓	✓				✓	✓				✓	I		?			✓			TR	TR	fine grain cutting	
30-40	BROWN	✓	✓				✓	✓				✓	I					✓			TR	TR		
40-50	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
50-60	BROWN	✓	✓				✓	✓				✓	I					✓			TR	TR		
60-70	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
70-80	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
80-90	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
90-100	BROWN	✓	✓				✓	✓				✓	Z		?			✓			TR	TR		
100-110	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
110-120	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
120-130	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
130-140	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
140-150	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
150-160	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
160-170	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
170-180	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
180-190	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
190-200	BROWN	✓	✓				✓	✓				✓	I					✓			TR	TR		
200-210	YELLOW	✓	✓				✓	✓				✓	Z					✓			TR	TR		
210-220	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
220-230	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
230-240	BROWN	✓	✓				✓	✓				✓	I					✓			TR	TR		
240-250	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
250-260	BROWN	✓	✓				✓	✓				✓	I					✓			TR	TR		
260-270	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		
270-280	BROWN	✓	✓				✓	✓				✓	Z					✓			TR	TR		

BOREHOLE CUTTING LOG

Hole No	Essential Minerals				Secondary minerals								Mineralization	Rock Type	Assay			Remarks/Date						
	Feldspar KF PC	QU	Mafic BI HO		QU	KF	BI	MU	PY	CY	CL	EP			CB	CP	MO		BN	CC	PY	HE	ML	Mo
84-8																								
10-20	WHITE-YELLOW	✓	✓				✓	✓	✗	✗	✓	✗	M	✗						✓		001	02	
20-30	WHITE	✓	✓				✓	✗	✗	✓	✗	I		✓						✓		001	01	
30-40	GREENISH TINT	✓					✗		✓			I								✓		001	01	
40-50	WHITE	✓					✗	✗				I		✓						✓		001	02	
50-60	WHITE	✗					✗	✗				I		✓						✓	✓	001	04	
60-70	WHITE	✓					✓		✓			I								✓	✓	001	04	
70-80	GREENISH TINT	✗					✗	✗				I								✓		001	03	
80-90	WHITE	✗					✗		✓			I		✓						✓	✓	TR	03	
90-100	WHITE	✗					✗	✗				I		✗	✓	✗	✓			✓	✓	001	10	
100-110	WHITE	✗					✗	✗				I		✗	✗	✓				✓	✓	002	13	
110-120	WHITE	✗					✗	✗				I		✗	✓	✓				✓	✗	001	19	
120-130	YELLOW	✗					✗	✗				I		✓	✓	✓				✓	✓	001	14	
130-140	WHITE-YELLOW	✗					✗	✗				I		✓	✗	✓				✓	✓	007	32	.128
140-150	YELLOW	✗					✗	✗				I		✗	✗	✓				✓	✓	006	28	.111
150-160	YELLOW	✗					✗	✗				I		✗	✗					✓	✓	003	22	.097
160-170	WHITE-YELLOW	✗					✗	✗				I		✗	✗					✓	✓	004	20	.079
170-180	YELLOW	✗					✗	✗				I		✓	✗					✓	✓	004	17	.055
180-190	YELLOW-BROWN	✗					✗	✗				I		✓	✗	✓				✗	✓	006	70	.155
190-200	YELLOW-BROWN	✗					✗	✗				I		✓	✗	✓				✗	✓	004	55	.146
200-210	YELLOW-BROWN	✗					✗	✗				I		✗	✓	✓				✗	✓	006	74	.213



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,824**

**HIGHMONT OPERATING CORP.**  
LOGAN LAKE B.C.

**FIGURE 2**  
**ROSCOE 1 CLAIM (20 UNITS)**  
**PERCUSSION DRILL HOLE LOCATION PLAN**  
**NOVEMBER 1984**

SCALE: 1" = 200'  
DRAWN BY: Louis Tsang  
CHECKED BY: K.F. BRADLEY

To accompany DRILLING REPORT by  
Louis H.C. Tsang on the ROSCOE 1  
CLAIM, Highland Valley, Kamloops  
Mining Division, dated JULY 1985