84-1169-13257
10/85

GEOCHEMICAL REPORT

OF

SOIL SAMPLING, TRENCHING AND GEOLOGICAL MAPPING

ON THE

AM, ANN AND IDE

MINERAL CLAIMS

PART OF MINING LEASES NO. 9 AND 14 HIGHLAND VALLEY

KAMLOOPS MINING DIVISION

NTS SHEET 92I/6, 92I/7

LATITUDE 50° 25'N

LONGITUDE 121° 00'E

OWNED BY NATIONAL TRUST COMPANY LIMITED

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

OPERATED BY HIGHMONT OPERATING CORPORATION

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

REPORT PREPARED BY

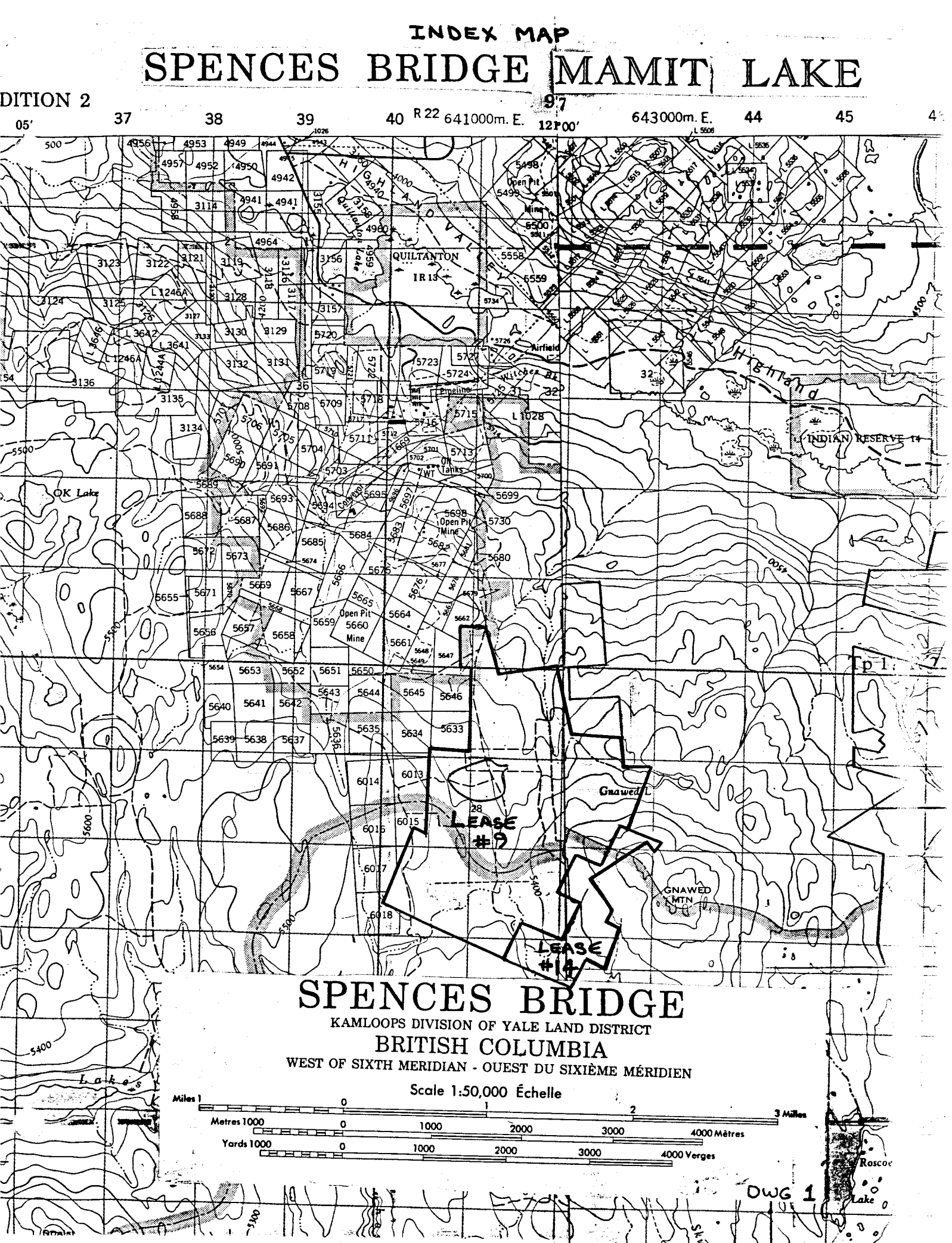
G.R. SANFORD - HIGHMONT MINE GEOLOGIST

03 OCT. 1984

INDEX MAP

SPENCES BRIDGE MAMIT LAKE

DITION 2



SPENCES BRIDGE

KAMLOOPS DIVISION OF YALE LAND DISTRICT

BRITISH COLUMBIA

WEST OF SIXTH MERIDIAN - OUEST DU SIXIÈME MÉRIDIEN

Scale 1:50,000 Échelle

Miles 1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

Yards 1000 0 1000 2000 3000 4000 Verges

DWG 1

GEOCHEMICAL REPORT

ON THE

AM, ANN AND IDE MINERAL CLAIMS

PART OF MINING LEASE 9 AND 14

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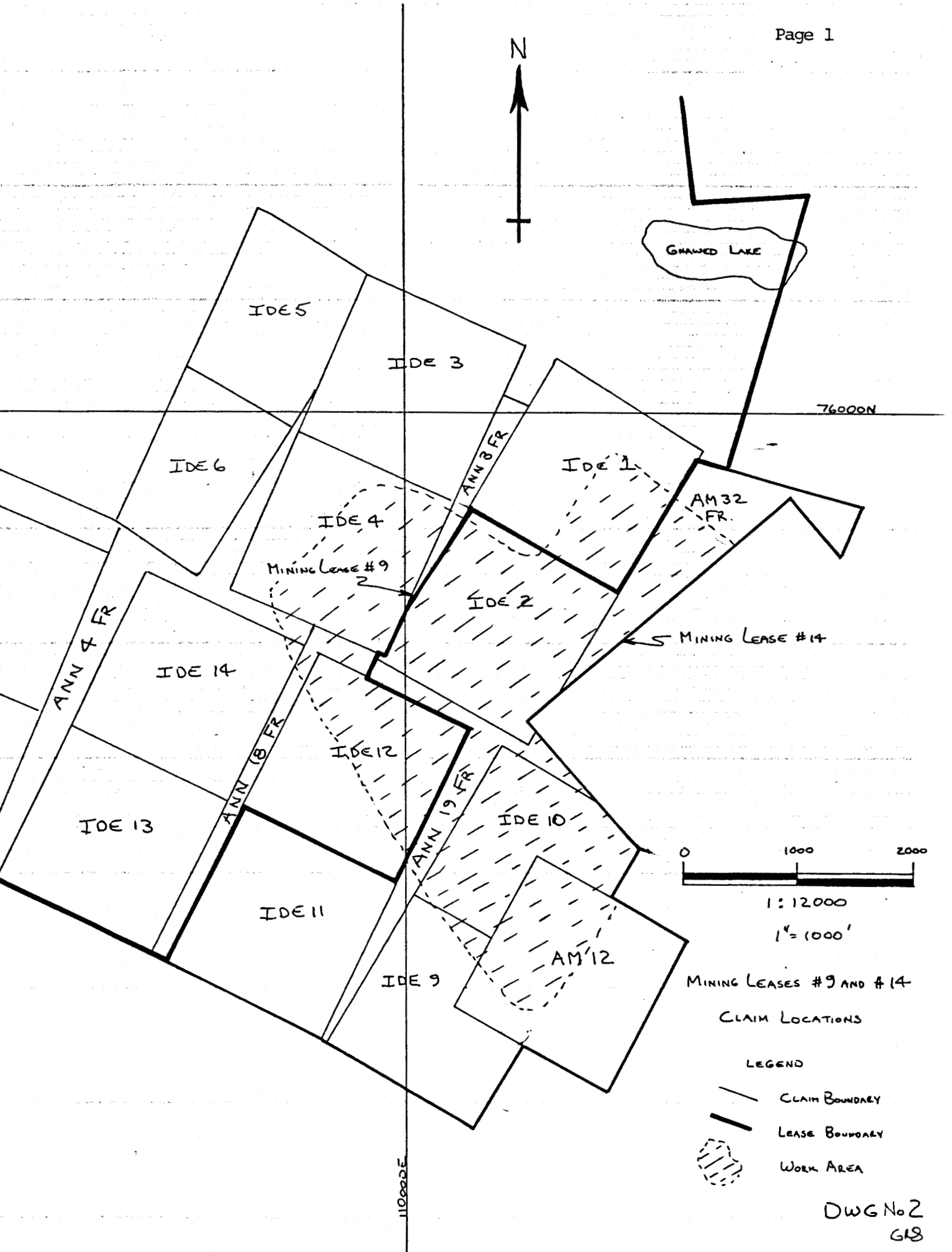
GD-18 "Overlay of Molybdenum Soil Geochem. (1984)"

GD-13 "Trench Mapping Lease 9 and 14 1984"

GD-14 "Trench Mapping Lease 9 and 14 1984"


N
GNAWED LAKE
IDE 5
IDE 3
IDE 6
IDE 1
IDE 4
IDE 2
IDE 14
IDE 12
IDE 13
IDE 10
IDE 11
IDE 9
AM 32 FR.
AM 12
ANN 3 FR
ANN 4 FR
ANN 18 FR
ANN 19 FR
MINING LEASE #9
MINING LEASE #14
76000N
11000E
0
1000
2000
1 : 12000
1" = 1000'
MINING LEASES #9 AND #14
CLAIM LOCATIONS
LEGEND
CLAIM BOUNDARY
LEASE BOUNDARY
WORK AREA

DWG No 2
GLB

GEOCHEMICAL REPORT
ON THE
AM, ANN AND IDE MINERAL CLAIMS
PART OF MINING LEASES 9 AND 14

INTRODUCTION

i) Location and Access

Mining Leases 9 and 14 are adjacent leases, located in the Highland Valley, along the southwest flank of Gnawed Mountain, at an elevation of 1600 m. Highmont Operating Corporation's East Pit ore body lies entirely within Lease No. 9, and Lease 14 adjoins No. 9 to the south-east. (See Dwg. No. 2)

Access to the Highmont Operation is via the Highmont Mine Road, an 8 km. all weather gravel road which connects with the paved highway connecting Logan Lake and Ashcroft.

ii) Claim Description

Mining Lease No. 9 consists of 40 mineral claims and fractions and was issued on December 10, 1979 for a period of 21 years. Mining of copper and molybdenum was actively being carried out by Highmont Operating Corporation from this lease at the rate of 68,000 tonnes per day, supplying 23-27000 tonnes per day of mill feed.

Mineral Lease No. 14 consists of 7 mineral claims and fractions and was issued on 10 September, 1980 for a period of 21 years. No active mining occurs on this ground, although portions are currently used for waste dumps.

Considerable development work has been done on Lease No. 9, beginning with the initial claim staking in 1955 and 1956. Torwest Resources and Highmont Mining Corporation did various geophysical surveys and major

percussion and diamond drilling between 1966 and 1969. Underground bulk sampling was done in 1967 and 1968.

In the course of these investigations, two large mineralized areas totalling 122 million tonnes at 0.26% copper and 0.027% molybdenum were outlined. Several additional mineralized areas were also outlined and this current program investigated the continuation of one of these zones.

The claims within Lease NO. 14 were purchased from Minex Resources when Highmont announced its production decision in 1979. Minex and Canadian Superior had drilled several diamond and percussion drill holes on this ground, encountering scattered chalcopyrite and molybdenite mineralization. The current exploration program attempted to follow known mineralized areas on Lease 9 into Lease 14 in an attempt to delineate readily accessible mill feed.

The entire work area is underlain by Skeena Phase quartz diorite of the Guichon Batholith. A westerly to north westerly trending quartz porphyry dyke of Bethsaida Phase, up to 150 m. wide, cuts through the northern half of the AM 32 Fraction, Ide 1, 3 and 5. Previous work has demonstrated that the emplacement of this dyke has had a strong influence on the localization of copper and molybdenum mineralization both to the north and to the south of the dyke itself.

Several technical papers have been published on the Highmont Property. Two of these reports are:

1) "The Highmont Copper-Molybdenum Deposits, Highland Valley, British Columbia" by Bergey, Carr and Reed, CIMM Bulletin, December, 1971.

2) "Highmont: Linearly Zoned Copper Molybdenum Porphyry Deposits and Their Significance in the Genesis of the Highland Valley Ores", CIMM Special Volume No. 15, pp 163-181, by Reed and Jambor, 1976.

iii) Summary of Work Done

Geochemical Survey

302 soil samples taken and assayed for copper and molybdenum.

46 rock chip samples from trench walls assayed for copper and molybdenum.

Trenching

1617 m. of trenching using D-8 cat.

Geological Survey

Geological mapping of most of the above trenching at a scale of 1" = 200' (1 : 2400)

iv) List of Claims

All work was performed within Mining Leases 9 and 14. The individual claims worked on are tabulated as follows:

	Claim Name	Record Number
Mining Lease No. 9	Ide 1	24994
	Ide 4	24997
	Ide 12	25710
	Ann 3 Fraction	45132
	Ann 18 Fraction	46153
Mining Lease No. 14	Am 32 Fraction	31483
	Ann 19 Fraction	46154
	Ide 2	24995
	Ide 9	25707
	Ide 10	25708
	Am 12	31199

As leases, all claims have been surveyed by a B.C. land surveyor

The locations of these claims are shown on the attached drawing GD-16A-Lease and Claim Boundaries (BCLS) With 1984 Trench Locations.

DETAILED TECHNICAL DATA AND INTERPRETATIONS

i) Purpose

The geochemical soil survey was initiated in an attempt to follow known geochemical anomalies with associated chalcopyrite and molybdenite mineralization into unknown ground.

Trenching was done both to examine anomalous areas defined by the soils survey, and also to expose bedrock in poorly defined areas.

Structural mapping of the trenches attempted to define structures similar to those within the active Highmont pit; and was essential in order to plan the subsequent diamond drill program.

Chip samples taken along selected trenches provided additional data to confirm soil anomalies.

ii) Results

All work associated with this program was done by Highmont Operating Corporation, utilizing Highmont equipment. Mr. Peter Folk, P. Eng., of Teck Corporation did the mapping and supervised the diamond drilling.

a) Geochemistry

Soil samples were taken on a grid, laid out using compass and hip chain. Samples were taken at 30 m. intervals (100 feet) along lines spaced 60 m. (200 feet) apart. On certain lines, the sample interval was reduced to 15 m. (50 feet). All sample locations were uniquely numbered and marked with a wooden peg driven into the ground at the sample site.

The soil samples were taken from the B-Horizon at a depth of from 15-25 cm, and placed in a kraft envelope.

All samples were prepared and analyzed in Highmont's Mine Assay Lab. The samples were dried and then screened, with the minus 100 mesh fraction kept for assay. This fraction was digested in a concentrated solution of nitric acid and potassium chlorate, followed by a concentrated hydrochloric acid digestion. An aluminum chloride solution was then added to the dissolved sample solution and the copper and molybdenum content measured by standard atomic absorption techniques, with the results reported in PPM or as a percentage.

Sample results were plotted on separate plans for copper and molybdenum (Figures GD-17 and GD-18 in the attached folder). Values were then contoured and studied. Individual assay sheets are attached in Appendix I.

b) Trenching, Trench Mapping

Trenching was done utilizing Highmont's D-8 cat. In most cases, overburden was minimal, except at the north end of the major trench on Ide 4, where up to 3 m. of glacial debris was removed without encountering bedrock. Bedrock was generally decomposed sufficiently that trench depths of 2 meters into rock were not uncommon.

Survey control was brought in from Highmonts existing grid system and stations placed at intervals along the trenches. Distances were taped from these known points.

Rock structures were mapped and plotted at 1:600 scale (1" = 50') on trench mapping sheets GD-13 and GD-14 in the attached file. The location of the trenching, relative to claim boundaries is shown on drawing GD-16A attached.

c) Chip Sampling

i. Chip Samples were taken over 3 m. (10 feet) intervals along the walls of selected trenches. The samples were assayed for copper and molybdenum in Highmonts Assay Lab using standard atomic absorption techniques.

Results are plotted alongside the appropriate trench on the trench mapping sheets GD-13 and GD-14. Individual trench chip sample assay sheets are attached in appendix II.

iii) Interpretations

a) Geochemistry

Over most of the area sampled, overburden is much less than 50 cm thick, consisting of weathered bedrock, glacial debris and organic material. Overburden thickness increased rapidly to the west on Ide 4, to in excess of several meters of glacial sands, gravels and till.

In general, areas of high copper are coincident with areas of high molybdenum. This is not surprising given the known intimate association of copper and molybdenum shears, veins and fractures within the Highmont Pit. The apparent gap between a northern and a southern anomalous area is topography related. This area is infilled with greater thickness of till than are encountered elsewhere except on Ide 4, mentioned above.

The apparent northern anomalous zone is entirely within the Bethsaida quartz porphyry dyke, and is also immediately adjacent to a major fault which strikes N 60^0 E, crossing Line 0 at the base line and line 28 at 10 SE.

The general north easterly trend of both copper and molybdenum contours also parallels this major fault, implying mineralized infillings of subsiduary joints and shears which have developed subparallel to the major fault.

Both copper and molybdenum values decrease to the east and south, probably in response to increasing depths of overburden.

b) Trenching, Trench Mapping

Virtually all rock exposed was variably altered Skeena quartz diorite except for scattered narrow dykes of quartz porphyry. The short northeastern most trench was entirely within the large Bethsaida quartz porphyry dyke.

Mineralization exposed consisted of azurite, malachite, bornite, chalcopyrite and molybdenite, both as fracture coatings or with quartz veins to 10 cm wide.

Trench mapping indicated two strong structural trends. One set of shears, fractures and joints trends N 30-50^0 E, dipping 65^0 to the NW and occasionally 65^0 SE. The other set of shears, fractures and joints trends N 70^0 W, dipping very steeply to the south, occasionally reversing to a steep northerly dip. Both these structural trends are also noted as major trends within the East Pit.

Mineralization in the N 70^0 W fracture set consisted of joint coatings and veins of quartz with chalcopyrite, bornite, and occasionally molybdenite. Oxidized mineralization on the joints consisted of limonite, azurite and malachite. Vein margins were typically coated with white muscovite (sericite).

The N 30^0 E fracture set generally consisted of limonitic shears, occasionally with malachite and molybdenite.

In the trench which was entirely within the quartz porphyry, considerable specular hematite was noted along fractures.

c) Chip Sampling

Chip sampling confirmed the geochemistry soil sampling values. Assay values averaged .10 - .15% cu and .005 - .008% mo. Higher values were noted in areas of more intense fracturing or wider - veining.

iv) Conclusions

The soil sampling, trench mapping and chip sampling all aided in understanding the nature and distribution of scattered surface mineralization. The subsequent drilling program used the structural information to position diamond drill holes. These holes could now cut mineralization at right angles and the assay results could be properly interpreted.

G.R. Sanford
Mine Geologist

GRS/nw

COST STATEMENT

LEASE NO. 9

Trenching

Highmont Supplied D-8 Cat and Operator	
June 30 - Aug. 19, 1984	
11 days in period, 947 m. of trenching	
94 hours @ 67.00/hr	6300.00

Soil Sampling

3 man days July 15 - Aug 10, 1984	
59 samples @ $80.00/man day	240.00

Assaying

59 soil samples analyzed for copper and molybdenum @ $3.50 per element	410.00
47 chip samples from trenches analyzed as above	330.00
TOTAL	$7280.00

NOTE: Charges for surveying, drafting supervision, travel costs, vehicle rental, report preparation, etc. are included in a separate assessment report on the subsequent diamond drilling program.

COST STATEMENT

LEASE NO. 14

Trenching

Highmont supplied D-8 Cat and Operator	
June 30 - Aug 19, 1984	
7 days in period, 670 m. of trenching	
66 hours total @ $67.00/hr	4420.00

Soil Sampling

8 man days July 15 - Aug 10, 1984	
243 samples @ $80.00/man day	640.00

Assaying

242 soil samples analyzed for	
copper and molybdenum @ $3.50 per element	1700.00
TOTAL	$6760.00

NOTE: Charges for surveying, drafting, supervision, travel costs, vehicle rental, report preparation, etc., are included in a separate assessment report on the subsequent diamond drilling program.

CERTIFICATE OF QUALIFICATIONS

Peter G. Folk, P. ENG.

I hereby certify that:

1. I graduated from the University of British Columbia in 1971 with a B.A.S.C. degree in geological engineering.

2. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

3. I have worked since graduation as an exploration geologist and mine geologist in Canada and the United States.

4. The work described herein was done under my direct supervision.

Peter Folk

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 as a geologist in the mining industry since graduation; and that

4) This report describes work performed on Mineral Leases No. 9 and 14 during the period 30 June - 03 October 1984.

G.R. Sanford
03 October 84

APPENDIX I

SOIL SAMPLE ASSAYS

Soil Samples

B

HIGH[illegible]ONT OPERATING CORPOR[illegible]TION

Mine Assay
Laboratory Report Form

Date: Aug 17/84

Assayed By: _____

DRILL NO.	HOLE NO.	LAB. NO.		ppm Cu		ppm Mo	% CU E	REMARKS
L0	100 SE	1		100		10		
	200 SE	2		100		20		
L00	300 SE	3		140		30		
	400 SE	4		2890		20		
	500 SE	5		3040		10		
	600 SE	6		1150		10		
	700 SE	7		6030		10		
	800 SE	8		2060		10		
	900 SE	9		1160		10		
	* 1000 SE	10		1320		10		
	1100 SE	11		550		10		
L2	100 SE	12		130		10		
	200 SE	13		90		10		
	300 SE	14		460		30		
	400 SE	15		240		30		
L2 NE	500 SE	16		560		10		
L2	500 SE	17		180		30		
L2 NE	600 SE	18		520		10		
L2	600 SE	19		1550		20		
	* 700 SE	20		2910		10		
L2 NE	700 SE	21		600		20		
L2	800 SE	22		2050		20		
L2 NE	800 SE	23		240		10		
L2 NE	900 SE	24		480		20		
L2 NE	1000 SE	25		580		10		
L2	1000 SE	26		1040		20		
	1100 SE	27		1110		30		
L4 NE	500 SE	28		200		20		
HMT STD	1g	29		980		460		
	2g	30		1920		—		

Soil Samples A

HIGH[illegible]ONT OPERATING CORPOP[illegible]TION

Mine Assay
Laboratory Report Form

Date: Aug 17/

Assayed By: ____

DRILL NO.	HOLE NO.	LAB. NO.		PPM Cu		PPM Mo	% CU E	REMARKS
L4 NE	600 SE	1		1350		10		
	*700 SE	2		640		50		
	800 SE	3		350		10		
	900 SE	4		670		10		
	1000 SE	5		640		10		
L 8	1200 SE	6		390		30		
	1300 SE	7		250		40		
	1400 SE	8		200		10		
	1500 SE	9		90		20		
	*1600 SE	10		580		20		
	1700 SE	11		410		20		
	*1800 SE	12		450		10		
	1900 SE	13		180		20		
	2000 SE	14		70		10		
	2100 SE	15		80		10		
CHECK	LO 1000 SE	16		1240		20		
	L2 700 SE	17		2730		20		
	L4 NE 700 SE	18		630		50		
	L8 1800 SE	19		480		20		
4 MT STD	1g	20		970		460		
	2g	21		1900		—		
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

HIGHMONT OPERATING CORPORATION

Mine Assay
Laboratory Report Form

Soil samples

Date: Aug 8/84

Assayed By: TT

DRILL NO.	HOLE NO.	LAB. NO.		PPM Cu		PPM Mo	% CU E	REMARKS
L4	100 SE	1		350		35		
	300 SE	2		200		50		
	400SE	3		530		50		
	500 SE	4		535		110		
	600 SE	5		290		20		
	700 SE	6		2075		35		
	800 SE	7		1675		25		
	900 SE	8		2660		20		
	1000 SE	9		3055		10		
	1100 SE	* 10		860		25		
	1200 SE	11		980		30		
L6	100 SE	12		850		20		
	200 SE	13		460		10		
	300 SE	14		645		25		
	500 SE	15		380		15		
	600 SE 6"	16		1450		20		
	600 SE 8"	17		280		20		
	700 SE	18		2250		25		
	800 SE	19		1010		30		
	900 SE	* 20		855		30		
?	1000 SE	21		1240		35		
	1100 SE	22		560		30		
check	L4 1100	23		820		25		
"	L6 900	24		885		30		
H.S.	1g	25		1050		460		
H.S.	2g	26		2040		~~870~~		
		27						
		28						
		29						
		30						

HIGH[illegible]ONT OPERATING CORPOR[illegible]TION

Date: Aug 3/8

B/ Soil SAMPLE

Mine Assay Laboratory Report Form

Assayed By: ____

DRILL NO.	HOLE NO.	LAB. NO.		ppm Cu		ppm Mo	% CU E	REMARKS
L8 SE	100	1		150		TR		
	200	2		180		10		
	300	3		260		10		
	500	4		440		10		
	600	5		850		10		
	700	6		2190		10		
	800	7		560		10		
	900	8		1650		10		
	1000	9		560		10		
	* 1100	10		240		20		
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

B

HIGHMONT OPERATING CORPORATION

Mine Assay
Laboratory Report Form

Date: Aug 3/8

Assayed By: _____

DRILL NO.	HOLE NO.	LAB. NO.		PPm Cu		PPm Mo	% CU E	REMARKS
		1						
		2						
		3						
		4						
		5						
		6						
		7						
		8						
		9						
		10						
L10SE	100	11		330		10		
	200	12		295		10		
	300	13		215		10		
	400	14		240		10		
	500	15		235		20		
	600	16		6085		25		
	700	17		830		25		
	800	18		4040		20		
	900	19		2410		20		
	1000	20		1150		20		
	* 1100	21		1860		15		
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

B

HIGHMONT OPERATING CORPORATION

Mine Assay
Laboratory Report Form

Date: Aug 3/8[illegible]

Assayed By: _____

DRILL NO.	HOLE NO.	LAB. NO.		PPm Cu		PPm Mo	% CU E	REMARKS
		1						
		2						
		3						
		4						
		5						
		6						
		7						
		8						
		9						
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						
		21						
L12SE	100	22		1500		20		
	200	23		825		10		
	300	24		225		20		
	400	25		115		15		
	500	26		170		15		
	600	27		200		20		
	800	28		11860		40		
	900	29		7255		25		
	1000	30		7000		25		

A/

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: Aug 3/8

Assayed By: _____

DRILL NO.	HOLE NO.	LAB. NO.		PPM Cu		PPM Mo	% CU E	REMARKS
L12SE	1100	1		1330		10		
	1200	2		2580		10		
L14SE	00'	3		445		05		
	100	4		600		10		
	200	5		2255		10		
	300	6		1690		10		
	400	7		180		10		
	500	8		145		05		
	600	9		200		10		
	700	* 10		170		05		
	800	11		80		10		
	900	12		150		10		
	1000	13		195		05		
	1100	14		375		05		
	1200	15		160		10		
	1300	16		200		05		
	1400	17		4010		05		
	1500	18		1070		15		
	1600	19		240		10		
	1700	* 20		2550		10		
	1800	21		2680		10		
	1900	22		450		25		
	2000	23		2540		10		
	2100	24		310		15		
	2200	25		790		10		
	2300	26		475		15		
CHECK	L8SE 1100	27		210		15		
"	L10SE 1100	28		1590		15		
"	L14SE 700	29		160		10		
"	L14SE 1700	30		2620		10		
HNT STD	24/140 30/240			1090 2075		46 84		

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: July 25 '18

Assayed By: Mathed

Soil Samples

DRILL NO.	HOLE NO.	LAB. NO.		PPM Cu		PPM Mo	% CU E	REMARKS
L16SE	00'	9 1		265		35		
	100'	10 2		3070		30		
	200'	11 3		170		60		
	300'	12 4		3570		15		
	400'	13 5		1110		30		
	500'	14 6		835		25		
	600'	15 7		265		15		
	700'	16 8		190		15		
	800'	17 9		130		10		
	900'	18 10		735		100		
	1000'	19 11		190		10		
	1100'	20 12		220		TR		
CHECK L28 SE	1000'	21 13		190		20		
CHECK L28 SE	2000'	22 14		240		10		
CHECK L16SE	900'	23 15		750		90		
HNT	1gm	24 16		935		470		
STD	2gm	25 17		1820		—		
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

HIGHMO) OPERATING CORPORAT)N

Soil samples

red

Mine Assay
Laboratory Report Form

Date: July 19/84

Assayed By:

DRILL NO.	HOLE NO.	LAB. NO.		% Cu		% Mo	% CU E	REMARKS
L20	1850 SE	1		.06		.004		
	1900 "	2		.06		.003		
	1950 "	3		.05		.002		
19	2000 "	4		.31		.001		
	2050 "	5		.79		.004		
	2100 "	6		.04		.002		
	2150 "	7		.06		.002		
	2200 "	8		.04		.001		
	2250 "	9		.02		.002		
	2300 "	10*		.02		.001		
	2350 "	11		.02		.002		
	2400 "	12		.02		.001		
L18	200 SE	13		.47		.001		
	250 SE	14		.36		.001		
	300 "	15		.21		.004		
	350 "	16		.15		.004		
	400 "	17		.13		.006		
	450 "	18		.12		.005		
	500 "	19		.09		.002		
	550 "	20*		.08		.005		
	650 "	21		.06		.001		
	700 "	22		.03	"	.001		
	750 "	23		.12		.011		
	800 "	24		.26		.014		
	850 "	25		.17		.020		
	900 "	26		.15		.008		
TECH	L20 2300	27		.02		.002		
"	L18 550	28		.08		.004		
HS	19	29		.09		.019		
	29	30		.19		—		

HIGHMONT OPERATING CORPORATION

Soil samples. **Mine Assay**

Laboratory Report Form

Date: July 19/81

Assayed By: ~~TT~~ SK

DRILL NO.	HOLE NO.	LAB. NO.		Cu %		Mo %	% CU E	REMARKS
L18	950 SE	1		.06		.011		
	1000 SE	2		.21		.005		
	1050 SE	3		.02		.002		
	1150 SE	4		.16		.004		
	1200 SE	5		.40		.003		
L22	100 SE	6		.55		.012		
	200 SE	7		.22		.004		
	350	8		.10		.005		
	400 SE	9		.05		.004		
	450	* 10		.09		.005		
	500 SE	11		.09		.007		
	550 SE	12		.10		.004		
	550	13		.05		.006		
	600 SE	14		.01		.005		
	600 SE A	15		.03		.006		
	650	16		.03		.003		
	700 SE	17		.03		.003		
	750	18		.13		.024		
	800 SE	19		.03		.006		
	850	* 20		.04		.009		
	900 SE	21		.04		.003		
	950	22		.18		.006		
check	450	23		.08		.004		
check	850	24		.04		.008		
H.S.	1g	25		.10		.048		
H.S	2g	26		.20		—		
		27						
		28						
		29						
		30						

samples

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: July 19/84

A

Assayed By:

DRILL NO.	HOLE NO.	LAB. NO.		% CU		% MO	% CU E	REMARKS
L20	150 SE	1		.11		.007		
	250 SE	2		.67		.006		
	450 SE	3		.10		.009		
?	505 SE	4		.03		.006		
1550 ✓	1550 SE	5		.41		.007		
	550 SE	6		.05		.021		
	650 SE	7		.02		.005		
RIPLIFT	700 SE	8		.04		.003		
	750 SE	9		.06		.006		
	850 SE	10*		.34		.004		
	950 SE	11		.12		.006		
	1000 SE	12		.25		.007		
	1050 SE	13		.10		.008		
	1100 SE	14		.21		.005		
	1150 SE	15		.12		.006		
	1200 SE	16		.03		.008		
	1250 SE	17		.18		.004		
	1300 SE	18		.07		.004		
	1350 SE	19		.19		.006		
	1400 SE	20*		.13		.005		
	1450 SE	21		.15		.005		
	1500 SE	22		.27		.007		
	1600 SE	23		.09		.005		
	1650 SE	24		.12		.004		
	1750 SE	25		.07		.005		
	1800	26		.16		.008		
TECH	850	27		.34		.004		
TECH	1400	28		.13		.005		
HS	14	29		.09		.018		
	29	30		.19		—		

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: July 2/18

Assayed By:

Soil Sample

Line 21 → 22

DRILL NO.	HOLE NO.	LAB. NO.		% Cu		% Mo	% CU E	REMARKS
L21, 1000		1		.10		.040		
L21, 1000 SE		2		.16		.004		
L21, 1050		3		.11		.007		
L21, 1150		4		.12		.005		
L21, 1200 SE		5		.06		.006		
L21, 1250		6		.10		.006		
L21, 1300 SE		7		.09		.004		
L21, 1350		8		.12		.003		
L21, 1400 SE		*9		.04		.003		
L21, 1450		10		.09		.009		
L21, 1500 SE		11		.32		.005		
L21, 1550		12		.07		.006		
L21, 1600 SE		13		.03		.002		
L21 1650		14		.07		.004		
L21, 1700 SE		15		.08		.003		
L21, 1750		16		.03		.003		
L21, 1800 SE		17		.04		.002		
L21, 1850 SE		18		.04		.001		
L21, 1900 SE		19		.03		.003		
L21, 1950 SE		*20		.05		.002		
L21, 2000 SE		21		.03		.0030		
L21, 2050 SE		22		.05		.002		
L21, 2100 SE		23		.03 = 300 ppm		.002		
L21, 2150 SE		24		.03		.002		
L21, 2200 SE		25		.03		.002		
L21, 2250 SE		26		.02		.001 = 10 ppm		
L21, 2300 SE		27		.03		.002		
L21, 2350 SE		28		.06		.002		
L21, 2400 SE		29		.04		.002		
L22, 50 SE		30		.18		.005		

HIGHMONT OPERATING CORPORATION

Date: July 20/82

Mine Assay

Assayed By:

Laboratory Report Form

Soil SAMPLE

DRILL NO.	HOLE NO.	LAB. NO.		% Cu		% Mo	% CU E	REMARKS
L22,150 SE		25 1		.15		.007		
L22,850 SE		26 2		.23		.004		
CHECK	L21 1400 SE	27 3		.04		.003		
"	L21 1750 SE	28 4		.05		.002		
Hmi	1gm	29 5		.10		.050		
STD	2gm	30 6		.20		—		
		7						
		8						
		9						
		10						
		11						
		12						
		13						
		14						
		15						
		16						
		17						
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

HIGHMONT OPERATING CORPORATION

Mine Assay
Laboratory Report Form

Date: Jul 23/24

Assayed By: GA

~~DRILL NO.~~	~~HOLE NO.~~	LAB. NO.		ppm Cu		ppm Mo	% CU E	REMARKS
L 24	100 SE	1		3100		50		
"	200 "	2		1460		35		
"	300 "	3		2440		25		
"	400 "	4		2800		35		
"	500 "	5		1160		35		
"	600 "	6		925		50		
"	700 "	7		220		25		
"	800 "	8		115		20		
"	900 "	9		150		15		
"	1000 "	10		1870		30		
"	1100 "	11		1210		50		
"	1200 "	12		160		20		
"	1300 "	13		1270		45		
"	1400 "	14		810		30		
"	1500 "	15		250		30		
"	1600 "	16		1740		40		
"	1700 "	17		810		45		
"	1800 "	18		235		35		
"	1900 "	19		365		20		
L 24	2000	20		375		20		
"	2100	21		885		15		
"	2200	22		385		15		
"	2300	23		470		20		
"	2400	24		690		25		
"	2500	25		305		20		
CHECK LAB #10		26		1850		35		
	#20	27		380		20		
	HS 0.5g	28		485		245		
	1.0g	29		940		470		
		30						

13

HIGHMONT OPERATING CORPORATION

Date: Jul 24/84

Mine Assay
Laboratory Report Form

Assayed By: [signature]

DRILL NO.	HOLE NO.	LAB. NO.		ppm Cu		ppm Mo	% CU E	REMARKS
SOIL SAMPLES L26	100 SE	1		430		20		
"	200 "	2		4450		35		
"	300 "	3		620		20		
"	400 "	4		360		35		
"	500 "	5		385		40		
"	700 "	6		685		45		
"	800 "	7		520		40		
"	900 "	8		460		30		
"	1000 "	9		160		45		
"	1100 "	10		475		35		
"	1200 "	11		145		10		
"	1300 "	12		610		40		
	1400 "	13		3070		40		
"	1500 "	14		660		50		
"	1600 "	15		160		35		
"	1700 "	16		230		50		
"	1800 "	17		300		20		
"	1900 "	18		240		20		
"	2000 "	19		230		10		
"	2100 "	20		195		10		
"	2200 "	21		375		20		
"	2300 "	22		270		20		
CHECK LAB # 7		23		525		35		
	# 14	24		645		45		
	HS .200g	25		195		90		
	.500g	26		480		230		
		27						
		28						
		29						
		30						

23 24 230

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: July 25/8

Assayed By: Holland

Soil Samples

DRILL NO.	HOLE NO.	LAB. NO.		P.PM Cu		P.PM Mo	% CU E	REMARKS
L28SE	100'	1		360		45'		
	200'	2		475'		40'		
	300'	3		1390		55'		
	400'	4		235'		40		
	500'	5		400		50		
	600'	6		280		40		
	700'	7		1070		40		
	800'	8		180		55'		
	900'	9		496		10		
	*1000'	10		190.		30		
	1100'	11		590		30		
	1200'	12		450		20		
	1300'	13		530		50		
	1400'	14		410		65		
	1500'	15		515'		40		
	1600'	16		530		25'		
	1700'	17		260		70		
	1800'	18		250		30		
	1900'	19		680		40		
	*2000'	20		270		20		
	2100'	21		120		20		
	2200'	22		230		20		
	2300'	23		210		20		
	2400'	24		270		30		
	2500'	25		300		25		
	2600'	26		160		10		
	2700'	27		130		15'		
	2800'	28		140		20		
	2900'	29		1700		40		
	3000'	30		145'		15'		

HIGHMO[illegible] OPERATING CORPORAT[illegible]N

General Worksheet

Parameter Soil Samples Date July 18/84

Analyst

BASE LINE

Sample	% Cu	% Mo		% Cu	% Mo
#1 BL 500 SW	.003	.001 60	#17 BL 200 SW	.074	.003
2 BL 1200 SW	.041	.003	#18 BL 400 SW	.340	.001
3 BL 600 SW	.031	.003	#19 BL 100 SW	.041	.001
4 L2 100 SE	.240	.006	#20 BL 200 SW	.038	.003
5 L 20 200 SE	.184	.004	#21 BL 800 SW	.122	.003
6 L 20 300 SE	.076	.003	#22 BL 1600 SW	.290	.001
7 L 20 400 SE	.100	.002	#23 BL 1400 SW	.048	.002
#8 L 20 500 SE	.016	.004			
#9 L 20 600 SE	.028	.003			
#10 BL 2400 SW	.136	.006			
#11 L 20 700 SE	.017	.002			
#12 BL 2400 SW	.014	.003			
#13 BL 2200 SW	.029	.001			
#14 BL 00	.048	.001			
#15 L 20 [illegible] SE	.456	.001			
#16 L 20 900 SE	.048	.001			

APPENDIX II

TRENCH CHIP SAMPLE ASSAYS

M

HIGHMONT OPERATING CORPORATION

Mine Assay

Laboratory Report Form

Date: Jul 16/24

Assayed By: EA EL

DRILL NO.	HOLE NO.	LAB. NO.		%		%	% CU E	REMARKS
		1						
		2						
		3						
		4						
TRENCH #1		5						
	FOOTAGE	6		%Cu		%Mo		
		7						
TRENCH	0-10	8		0.24		.013		
	10-20	9		0.13		.009		
	20-30	10		0.11		.011		
	30-40	11		0.13		.005		
	40-50	12		0.09		.007		
	50-60	13		0.16		.009		
	60-70	14		0.07		.009		
CHECK LAB #10		15		0.11		.013		
	HS 19	16		0.09		.048		
		17						
		18						
		19						
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						

HIGHMO[illegible] OPERATING CORPORAT[illegible]N

General Worksheet

Parameter TRENCH # 2

Date July 18/84

Analyst TI

FOOTAGE	flask #	% Cu	% Mo	
6 - 10	27	.06	.003	
10 - 20	28	.08	.004	
20 - 30	29	.08	.004	
30 - 40	30	.14	.009	

TRENCH # 2 samples

HIGHMONT OPERATING CORPORATION

Mine Assay Laboratory Report Form

Date: July 20

Assayed By: TT

DRILL NO.	FOOTAGE	LAB. NO.		% Cu		% Mo	% CU E	REMARKS
	40-50	1		.09		TR		
	50-60	2		.14		.008		
	60-70	3		.10		.002		
	70-80	4		.24		.010		
	80-90	5		.08		.005		
	90-100	6		.14		.005		
	100-110	7		.10		.007		
	110-120	8		.05		.023		
	120-130	9		.15		.007		
	130-140	* 10		.12		.007		
	140-150	11		.11		.003		150-160 NO SAMPLE
	160-170	12		.14		.003		
	170-180	13		.16		.005		
	180-190	14		.12		.003		
	190-200	15		.12		.003		
	200-210	16		.15		.005		
	210-220	17		.38		.006		
	220-230	18		.10		.004		
	230-240	19		.15		.009		
	240-250	* 20		.12		.005		
check	130-140	21		.12		.006		
check	240-250	22		.12		.004		
H.S.	1g	23		.10		.049		
		24						
		25						
		26						
		27						
		28						
		29						
		30						

HIGH[illegible]DNT OPERATING CORPOP[illegible]TION

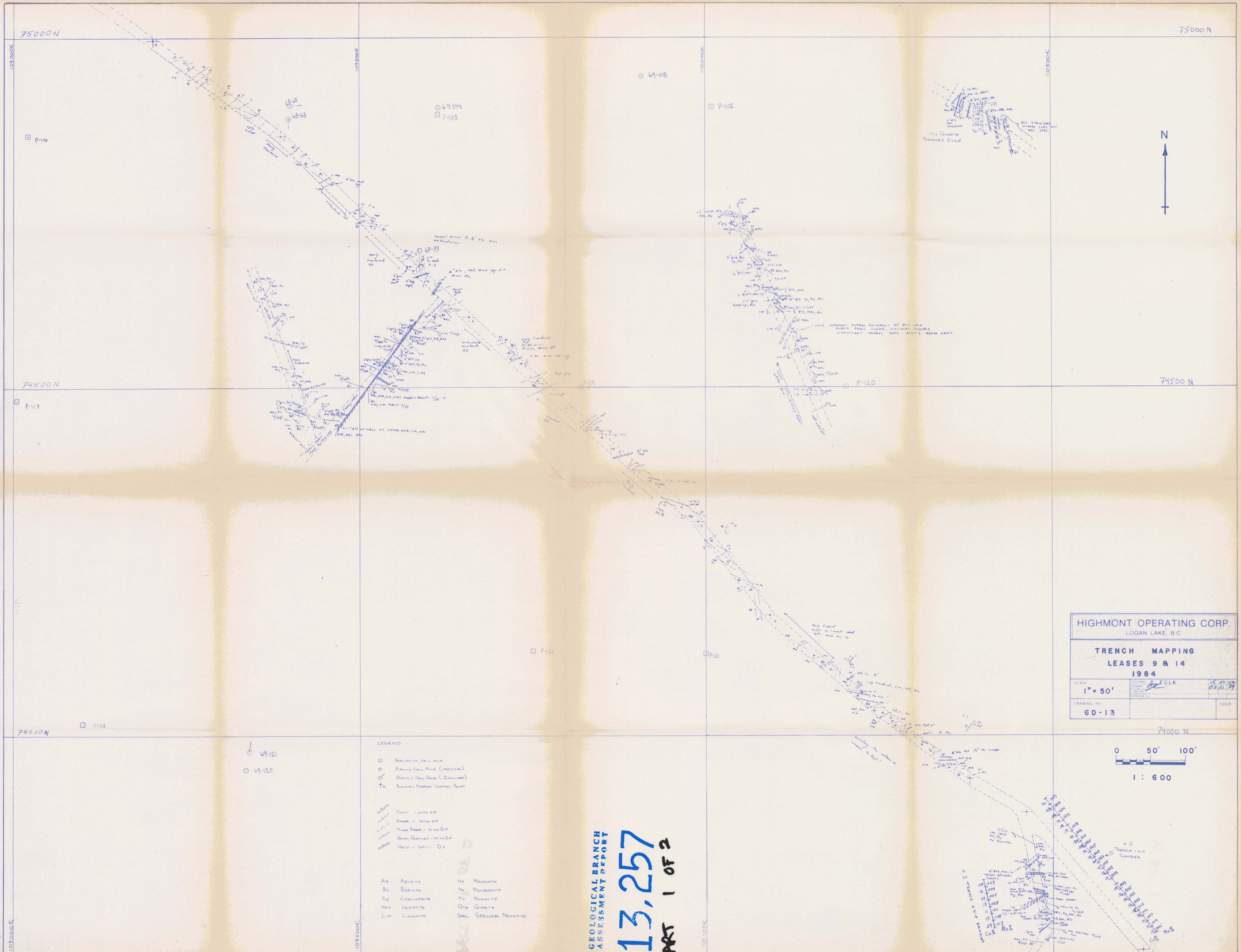
Date: July 28/54

Trench Samples #3

Mine Assay Laboratory Report Form

Assayed By: [illegible]

DRILL NO.	FOOTAGE	LAB. NO.		% Cu		% Au	% CU E	REMARKS
I	0-10	1		.15		.006		
"	10-20	2		.12		.009		
"	20-30	3		.16		.009		
	30-40	4		.14		.008		
	40-50	5		.15		.006		
	50-60	6		.16		.007		
	60-70	7		.22		.015		
	70-80	8		.21		.006		
	80-90	9		.52		.037		
	90-100	* 10		.15		.008		
	100-110	11		.24		.011		
	100-120	12		.12		.006		
	120-130	13		.12		.005		
	130-140	14		.08		.010		
	140-150	15		.14		.005		
CHECK	90-100	16		.16		.008		
HUNT	1 gm	17		.09		.048		
STD	2 gm	18		.19		—		
OJ	130-140	19		.11		.006		
		20						
		21						
		22						
		23						
		24						
		25						
		26						
		27						
		28						
		29						
		30						



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,257

PART 1 OF 2

GD-13

IDE 8

IDE 6

IDE 3

ANN 3 FR

IDE 1

AM 1

ANN 6 FR

NEW ANN 11 FR

AM 32 FR

75 000N

IDE 4

IDE 16

ANN 4 FR

IDE 2

MINING LEASE 14

74 000N

IDE 14

IDE 15

ANN 18 FR

IDE 12

ANN 19 FR

73 000N

IDE 13

MINING LEASE 9

IDE 10

72 000N

IDE 11

IDE 9

AM 12

71 000N

107 000E

108 000E

109 000E

110 000E

111 000E

112 000E

113 000E

114 000E

N

PART 1 OF 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,257

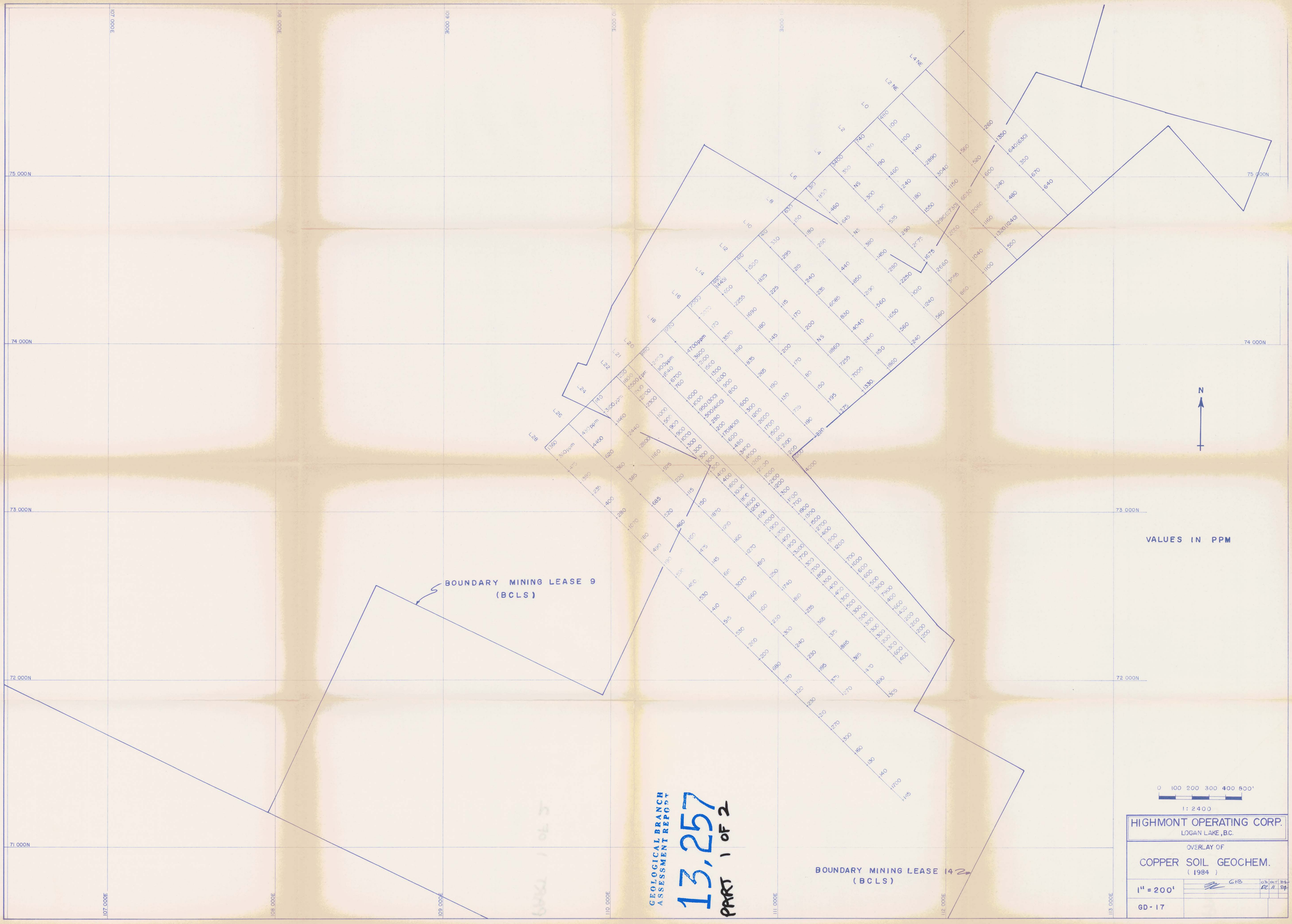
0 100 200 300 400 500'

1 : 2400

HIGHMONT OPERATING CORP.
LOGAN LAKE

LEASE AND CLAIM BOUNDARIES
(BCLS)
WITH 1984 TRENCH LOCATIONS

1" = 200'	GRS	02 OCT 84 / 02 11 84
GD-16A		



107 000E
108 000E
109 000E
110 000E
111 000E
112 000E
113 000E
114 000E

75 000N
74 000N
73 000N
72 000N
71 000N

L0
L2
L4
L6
L8
L10
L12
L14
L16
L18
L20
L22
L24
L26
L28
L2 NE
L4 NE

BOUNDARY MINING LEASE 9
(BCLS)

BOUNDARY MINING LEASE 14
(BCLS)

N

VALUES IN PPM

0 100 200 300 400 500
1 : 2400

GEOLOGICAL BRANCH
ASSESSMENT REPORT
13,257
PART 1 OF 2

HIGHMONT OPERATING CORP.
LOGAN LAKE, B.C.

OVERLAY OF
MOLYBDENUM SOIL GEOCHEM
(1984)

1"= 200'

GD-18