

1137

REPORT ON A GEOCHEMICAL SURVEY
ON THE HIGHLAND VALLEY PROPERTY
OF
ZENITH MINING CORPORATION LTD. (N. P. L.)
KAMLOOPS MINING DIVISION, B. C.

Filmed

29th November, 1967.

M. P. STADNYK

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INTRODUCTION

FROM July 1st 1967 to November 29th 1967, an active programme of prospecting, soil sampling, trenching, percussion drilling and road construction has been carried out on Zenith Mining Corporation Ltd. (N. P. L.) property in Highland Valley, B. C.

THIS report concerns only the geochemical survey which was carried out between August 19th, 1967 and October 17th, 1967. Anomalous areas revealed by this survey are presently being checked by bulldozed trenches.

LOCATION AND ACCESS

PROPERTY is situated two miles west north west of Pimainus Lake, or ten miles due east of Spences Bridge, B. C. Co-ordinates are $121^{\circ} 05'$ west longitude and $50^{\circ} 21'$ north latitude.

Good road access is possible from the Highland Valley through Lornex Mining Corporation to Pimainus Lake, or by the Highland Valley Lodge and Calling Lake.

PHYSIOGRAPHY

WITH the exception of a few high rocky hills in the north eastern portion of the property, the relief is generally low and dips gently southwards. Swampy areas trend southerly and only one stream cuts the property flowing westwards.

Because of the hot dry summer, only a few of the bog areas were damp, but depressions are numerous and organic soils are deep.

Overburden is shallow on the grid, rarely exceeding ten feet. A swamp at the Mars #8 to 10 claim posts was still in clay at ten feet depth.

Vegetation consists of small lodge pole pines, birch and thick groves of second growth pines in burnt over areas.

MINERAL CLAIMS

Mineral claims on which geochemical work was carried out are:

LORNA #1 to 15 inclusive, Record Nos. 52588 to 52602 inclusive

LORNA #18 to 31 inclusive, Record Nos. 52605 to 52618 inclusive

MAT #1 to 10 inclusive , Record Nos. 52833 to 52842 inclusive

MAT #12, Record No. 52844

LORNA FRACTIONS #1 to 8 inclusive, Tag Numbers 566391 to 566398 incl.

Sampling was also carried out along the location lines of MARS #1 to 20 inclusive, Record Nos. 54394 to 54413 inclusive and PAM #7, 9 and 11, Record Nos. 52944, 52946 and 52948. (See enclosed Mineral claim map.)

GRID CONTROL

Amex Mining Exploration Services of Kamloops, B. C. cut and chained 29 miles of line on a grid where transit control was used. Base line has a bearing of true north (000°) for 9,500 feet. Cross lines, 4000 feet east, 4200 feet west, were turned off with the transit at 500 foot intervals. Cross lines are marked at 200 foot intervals and flagged at intervening 100 foot intervals. Closures on east and west tie lines were very good. Outline of grid is shown on the enclosed property map.

SOIL SAMPLING

Sampling was carried out at 200 foot intervals along the grid lines. Extra samples were taken in swamp, bog and other drainage courses. Samples were taken four inches below the humus layer at depths of 8 to 12 inches. Except in bogs or swamps all samples consisted of fine sand, and occasionally small stones. Swamp samples are marked "S", Organic "O" in the enclosed assay sheets.

Samples were also taken at 200 feet intervals along the MARS #1 to 20 mineral location line. A large bog area was encountered in the area of the MARS 7, 8, 9, 10 claim posts. Trenching has revealed clay to a depth of at least ten feet here.

TOPOGRAPHICAL MAPPING

Considerable time was spent mapping drainage features which would help interpret anomalous areas. When possible outcrop was checked for visible copper in anomalous areas.

GEOCHEMICAL TESTING

Geochemical testing was carried out in Vancouver by TSL Laboratories Ltd. All samples were tested for copper using the Hot HNO₃ Acid extraction method. Assay results for copper in parts per million are enclosed with this report. The enclosed geochemical map shows copper values in excess of 100 parts per million. Background value was estimated at 40 to 50 ppm. copper.

RESULTS OF GEOCHEMICAL SURVEY FOR COPPER

The enclosed map shows a strong correlation between geochemical high (over 100 ppm) values and drainage. The swamp 400 to 600 feet east of the base line reveals a continuous zone of high values for over 6,500 feet (oo line to 65N.) - Values over 300 ppm.

A second southerly trend is noticeable paralleling 20 East line between 15N and 45N (over 300 ppm.)

A third trend parallels 30 East line, but does not appear to have the continuity of the first two trends. Readings have reached as high as 3300 ppm copper.

Trenching is proposed for 35N line at 14E to 18E and along 20N line at 26E to 29E to check anomalous zones of high readings.

It should be noted that very low grade copper mineralization was encountered in trenches and percussion drill holes shown on the enclosed geochemical map. This work was done prior to the geochemical survey being carried out.

An anomalous zone of readings of 160 to 470 ppm. copper were found from 400 feet to 2200 feet west of MARS 9, 10, 11, 12 claim posts (i. e. along the claim line). Trenching near MARS 7, 8, 9 10 posts did not reach bedrock.

Values of 900 and 135 ppm copper were found 200 feet east and west of PAM #7 and 9 claim posts. A strong shear zone (ten feet wide, striking NE) has been found in trenching west of the claim posts. Disseminated copper in quartz diorite was also found here.

PERSONNEL

All work on the Zenith Mining Corporation Ltd. (N. P. L.) property has been carried out under the supervision of Dr. A. C. Skerl of Vancouver, B. C.

The author (M. P. Stadnyk) carried out this work for the company on a contract basis. Except for contracting companies, only one or two other men were retained by the mining company on day work during this period.

RENTAL EQUIPMENT

Four wheel drive vehicles were rented from Redhawk Rentals Ltd., Johnson U-Drive and Silver Arrow Explorations Ltd. (N.P.L.) during the course of the geochemical survey. These vehicles were necessary because of the rough roads into and on the property.

Cabins on Pimainus Lake were rented to house work crews.

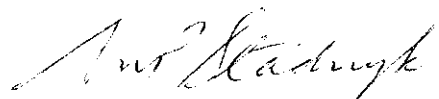
CONCLUSIONS AND RECOMMENDATIONS

Geochemical survey of this property has localized the search for copper to give areas mentioned in this report. If trenching proves successful, then additional soil sampling should be carried out at 100 foot intervals along a zone paralleling and some 600 to 800 feet west of the present northwesterly road and also east of the base line to the east tie line between 10N and 50N.

Samples should also be taken at 200 foot intervals along the claim location line of MAT #13 to 20 inclusive.

Trenching is recommended along lines 35N between 14E to 18E and 20N between 26E and 29E and should serve as a basis for further work on this property.

REPORT RESPECTFULLY SUBMITTED.



M. P. STADNYK.

CERTIFICATION

I, MIKE PETER STADNYK, of Vancouver, B.C. do hereby certify that:

1. I am a Mining Exploration Geologist with residence at 1445 West 11th Avenue, Vancouver, B.C.
2. I am a graduate of the University of New Zealand and have practised my profession in Canada for seven years.
3. I have no interest, direct or indirect in the properties or securities of Zenith Mining Corporation Ltd. (N. P. L.) nor do I expect to have any such interest.
4. The information contained in this report was based upon work carried out by me or at my direction between the period of July 5th 1967 to November 29th, 1967.

M. P. STADNYK, B. Sc.
Geologist.

29th November, 1967
Vancouver, B. C.

EXPENDITURES

Line Cutting

Amex Mining Exploration Services:		
Wages - 10 men - 16 days August 9 to 29, 1967	\$2023.85	
Supervision	347.13	
Transportation	218.42	
Accommodation - cabin rentals	84.00	
Food - 10 men - 16 days	<u>327.00</u>	3,000.40

Additional labour

Geologist - transit work performance check		
August 9 to 11; 19; September 13 to 15		
7 days @ \$60.00 per day	420.00	
Helper - August 9 to 11; 3 days at \$25.00 per day	<u>75.00</u>	495.00

Soil Sampling

1 man - 16 days @ \$25.00 per day (Aug. 16 to September 26th, 1967)	400.00	
Geologist - check sampling - 1 day	60.00	
Supervision - 5 days	300.00	
Mapping, drainage, slopes, checking outcrops - 12 days	<u>720.00</u>	1,480.00

<u>Prospecting</u> - July 20th to August 7th 1967		
1 man @ \$25.00 per day for 16 days		400.00

Equipment Rental

Redhawk Rentals	565.00	
Johnson U-Drive	86.00	
Silver Arrow Explorations Ltd. (N.P.L.)	400.00	
Operating Expenses	100.00	
Cabin - 5 months @ \$50.00 per month	250.00	
Food - sundries	<u>125.00</u>	1,526.00

Assaying - TSL Laboratories Ltd.	850.00	
Sample bags - Eldrico Geophysical Sales	<u>26.85</u>	<u>876.85</u>

Sub-Total: 7,778.25

Mars Claims

Geochemical survey along claim line		
Geologist - 1 day - October 16th 1967	60.00	
Helper (\$25.00) and copper assaying (\$45.00)	<u>70.00</u>	130.00

Report

November 28th, 29th, 1967		<u>120.00</u>
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TOTAL: \$ 8,028.25

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 29
day of November, 1967, A.D. } *Notary Signature*

S. J. Carotte
A Commissioner for taking Affidavits for British Columbia or
A Notary Public in and for the Province of British Columbia.

★0

T S L

Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

ALL SAMPLE(S) FROM MR. J. HOWARD
ZENITH MINES
403-409 GRANVILLE STREET
VANCOUVER B.C.

REPORT NO.
V2759-1

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	LINCOLN BL 00	31						
2	2E	375						
3	4E	14						
4	6E	23						
5	800E	37						
6	10E	69						
7	12E	36						
8	514E	200						
9	14E	90						
10	ON 16E	94						
11	ON 14E	20						
12	20	14						
13	22	45						
14	24	23						
15	26	61						
16	28	62						
17	30	27						
18	32	100						
19	34	130						
20	ON 36E	53						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2959-2

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	ON 38E	155						
2	40 00E	41						
3	S(0000) 50' W of BL	750						
4	2W	510						
5	4	37						
6	6	119						
7	6	40						
8	8	32						
9	10	21						
10	ON 12 W	33						
11	ON 14 W	37						
12	16	15						
13	5 W 17 W	270						
14	18	27						
15	20	11						
16	22	37						
17	24	19						
18	26	20						
19	28	78						
20	ON 30 W	28						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

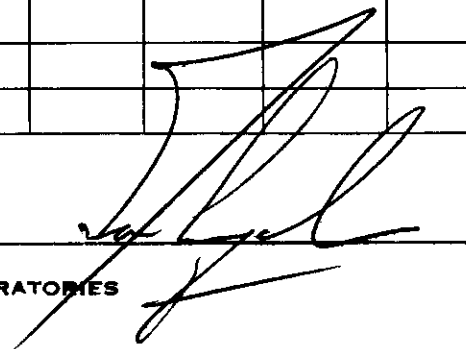
REPORT NO.
V2757-3

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	ON 32 W	64						
2	34	20						
3	36	27						
4	38 W	80						
5	ON S W 38	58						
6	40 W	15						
7	5N 50' from 2"E CREEK Bottom @	370						
8	5N 2 E	23						
9	4	63						
10	5N 6	43						
11	5N 8	135						
12	10	28						
13	12	40						
14	550' from 14 E	44						
15	14	27						
16	16	51						
17	18	33						
18	20	26						
19	22	26						
20	5N 24 E	149						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2957-4

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	5N 26 E	45						
2	26	146						
3	30	149						
4	32	94						
5	34	29						
6	36	68						
7	38	47						
8	40	23						
9	5N 8L 00	23						
10	5N 2W	45						
11	5N 4 W	57						
12	6	54						
13	8	76						
14	10 W	80						
15	5N 25' from 10W @ 15	590						
16	12	19						
17	14	14						
18	16	192						
19	18	81						
20	5N 20 W	180						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2157-5

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

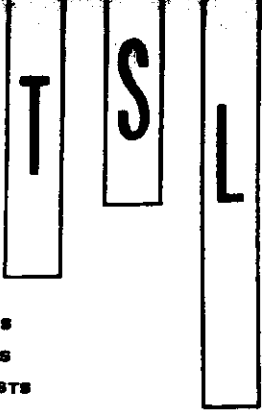
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	5N 22W	127						
2	24	35						
3	26	104						
4	28	27						
5	30	260						
6	32	63						
7	34	44						
8	36	37						
9	38	135						
10	5N 40W	23						
11	5N 42W	97						
12	10N BL 00	190						
13	2E	28						
14	4E	144						
15	25W from 4E @ S	27						
16	6E	410						
17	8	48						
18	125W from 10E @ S	800						
19	10E	49						
20	10N 12E	59						

DATE Sept 3, 1961

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
12757-6

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	10N 14E	144						
2	16E (C)	530						
3	16	133						
4	20	105						
5	22	27						
6	24	120						
7	26	43						
8	24	53						
9	30	46						
10	10N 32E	185						
11	10N 34E	570						
12	36	46						
13	38E	62						
14	120'W from 40E (C)	43						
15	40E	75						
16	2W	32						
17	120'W from 2W (C)	580						
18	4	25						
19	6	40						
20	10N 8W	55						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

12457-7

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	10N 10W	40						
2	75' W from 10W @ S	460						
3	12	57						
4	14	67						
5	16	97						
6	18	56						
7	20	270						
8	22	190						
9	24	36						
10	10N 26 W	51						
11	10N 26 W	33						
12	30	26						
13	32	26						
14	36	31						
15	38 W	33						
16	11' W from 38 W S	320						
17	40	25						
18	42	50						
19	15N Creek Bottom 100' E from BL @	460						
20	10N 34 W	175						

DATE Sept 8, 1964

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
12957-8

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	15N 150'E from 2E @ S	590						
2	2E	45						
3	4	65						
4	6	22						
5	8	22						
6	10	13						
7	12	15						
8	14	22						
9	16	23						
10	15N 18 E	21						
11	15N 20 E	27						
12	22	33						
13	24	30						
14	90' W from 24E S	330						
15	26	28						
16	80E from 24E S	106						
17	28	210						
18	30	40						
19	25'E from 32E S	115						
20	15N 32E	29						

DATE Sept 8, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
12957-4

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	15N 34E	37						
2	36 @ S	550						
3	38	11						
4	15N 40 E	26						
5	15N BL 00 @ S	140						
6	2W	27						
7	40'E from 4W S	270						
8	4W	30						
9	6	10						
10	15N 8 W	38						
11	15N 10 W	44						
12	12	26						
13	14	115						
14	16	32						
15	105'E from 16 W S	550						
16	18	35						
17	20	47						
18	22	16						
19	24	26						
20	15N 100'E from 26 W S	235						

DATE Sept 3, 1967

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
 12159-10

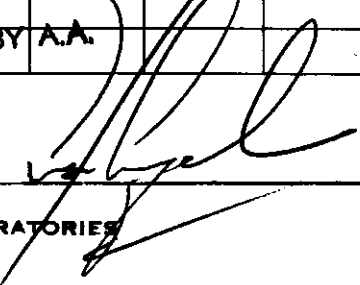
SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	15N 26W	23						
2	150'E from 26W @ S	270						
3	28	17						
4	30	16						
5	32	82						
6	34	51						
7	36	54						
8	130'E from 36W S	240						
9	38	40						
10	15N 40W	7						
11	15N 42W	31						
12	20N BL 00 @ S	320						
13	100'E from BL S	115						
14	each Bottom 50'E from 28 @ S	650						
15	2E	17						
16	4E	46						
17	40'W from 4E @ S	420						
18	6	20						
19	8	37						
20	20N 10E	23						

BY HOT HNO₃ ACID EXTRACTION
 DETERMINED BY A.A.

DATE Sept 3, 1967

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DIVISION OF TECHNICAL SERVICE LABORATORIES



T S L

Ⓢ - ORGANIC
S - SWAMP

Laboratories Limited

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CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

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GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM **Att. MR. HOWARD
ZENITH MINES
408-409 GRANVILLE STREET
VANCOUVER, B.C.**

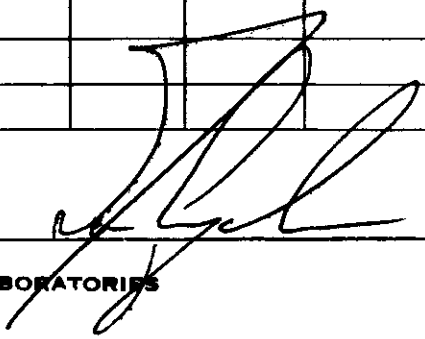
REPORT NO.
V2957-11

SAMPLE(S) OF **SOILS**

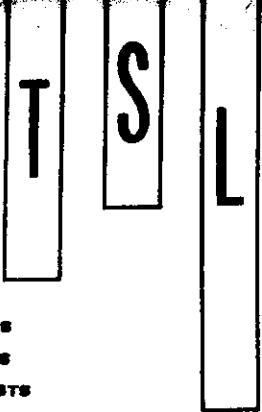
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	20N 12E	43						
2	14	60						
3	14	300						
4	20N 150'E from 16E S	16						
5	16	23						
6	18	130						
7	25'E from 20E S	530						
8	20	24						
9	22	260						
10	20N 24E	112						
11	20N 26E	430						
12	20N GREEK BL. 90'E from 24E.	540						
13	15N 25'W from 24E	360						
14	20N 24E	430						
15	30	102						
16	32	33						
17	34	16						
18	40'E from 36E (O'S)	500						
19	36	29						
20	20N 38E	14						

DATE Sept 11, 1967

SIGNED 





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

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GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.
VA957-12

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	20N 39E	46						
2	2W	33						
3	4	26						
4	25'E From 6W @ S	370						
5	6	25						
6	8	34						
7	10	106						
8	12	27						
9	16	95						
10	20N 150'W From 16WS	235						
11	20N 18W	68						
12	80'W From 18WS	440						
13	150'W From 20WS	152						
14	20	44						
15	22	25						
16	24	65						
17	26	30						
18	28	33						
19	30	147						
20	20N 32W	122						

DATE Sept 11, 1967

SIGNED [Signature]

DIVISION OF TECHNICAL SERVICE LABORATORIES



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Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2957-13

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	20N 34W	11						
2	36	24						
3	38	26						
4	40	21						
5	42	46						
6	20N 40'E From 2WS	270						
7	25N BL 00	47						
8	5'F From BL S	26						
9	2E	62						
10	100' From 4E	280						
11	25N 4E (10)	410						
12	6	25						
13	4	15						
14	10	24						
15	12	25						
16	14	15						
17	16E	10						
18	50'E From 14ES	100						
19	14	14						
20	35N 120'E From 20ES (10)	640						

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TELEPHONE 688-3504
AREA CODE 604

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GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2957-14

SAMPLE(S) OF SOILS

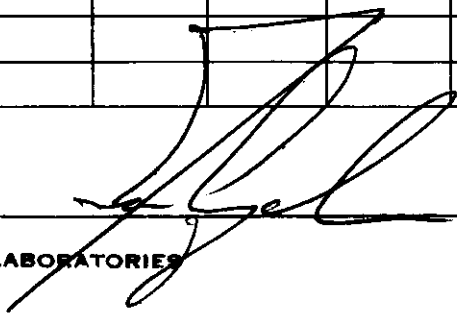
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	25N 20E	12						
2	22'E from 22E S①	610						
3	22	43						
4	24	24						
5	26E	14						
6	30'E from 26E ①S	1110						
7	28E	57						
8	30'E from 30E ①S	3300						
9	30E	24						
10	25N 32E	110						
11	25N 34E	30						
12	36	24						
13	38	8						
14	40'E from 34E S①	700						
15	40	11						
16	2W	31						
17	4W	39						
18	56E from 6WS	140						
19	6	33						
20	25N 8W	25						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2957-15

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	25N 10W	177						
2	12	36						
3	14	64						
4	16	41						
5	16	40						
6	100' F From 20W S	170						
7	20	540						
8	22	55						
9	24	25						
10	25N 26 W	13						
11	25N 26 W	77						
12	30	205						
13	32	49						
14	34	46						
15	36	24						
16	38	26						
17	40	60						
18	25N 42 W	20						
19	30N BL 00	33						
20	30N 2 E	14						

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SAMPLE(S) FROM ZENITE MINES

REPORT NO.
V2957-16

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	30N 4E S	670						
2	6	340						
3	8	27						
4	10	45						
5	12	20						
6	14	56						
7	16	208						
8	18	58						
9	20	50						
10	30N 22 E	430						
11	30N 50W From 22E @ S	740						
12	24	670						
13	26	128						
14	28	120						
15	20	168						
16	50'W From 30E Creek St.	286						
17	32	66						
18	34	100						
19	36	65						
20	30N 150'W From 36E S	215						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2957-17

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	30N 58E	245						
2	2 W	240						
3	4	47						
4	6	27						
5	8	23						
6	10	40						
7	12	24						
8	14	23						
9	16	26						
10	30N 14 W	9						
11	30N 20 W	50						
12	40' W From 20W S	51						
13	22	14						
14	24	26						
15	26	11						
16	28	10						
17	30	255						
18	40' W From 30W S	23						
19	32	54						
20	30N 34 W	39						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2959-16

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	30N 36W S	140						
2	40	36						
3	30N 42W	35						
4	35N 2E	64						
5	4	36						
6	80'E from 4E @ 5	460						
7	6	150						
8	8	55						
9	10	30						
10	35N 12E	79						
11	35N 80'E from 14E S	2950						
12	14	108						
13	16	200						
14	110'E from 14E S	215						
15	14	110						
16	50'W from 14E S	2150						
17	20	26						
18	90'E from 24E S @	960						
19	22	62						
20	35N 24E	130						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2957-19

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	35N 26F	27						
2	38E.S	92						
3	30F	15						
4	50'E from 32ES	12						
5	32E	10						
6	34	15						
7	54'E from 36ES	120						
8	36	28						
9	35N 33E	13						
10	35N BL 00	14						
11	35N 2W	29						
12	4	38						
13	6	128						
14	8	29						
15	10	48						
16	12	121						
17	14	38						
18	16	6						
19	18	30						
20	140'E from 14WS	57						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V 2957-20

SAMPLE(S) OF SOILS

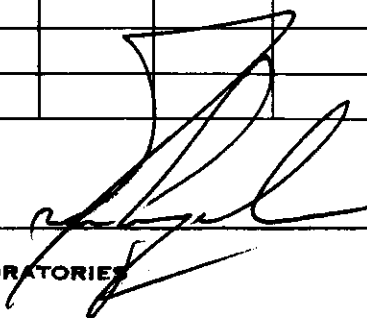
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	35N 20 W	13						
2	22	370						
3	100'E from 25W 3 @	630						
4	24 W	13						
5	26	34						
6	26	43						
7	30	56						
8	32	221						
9	34	15						
10	35N 36	128						
11	35N 38 W	31						
12	40	27						
13	42	33						
14	30N 38 W	27						
15	40N BL 00	13						
16	2 E	12						
17	4	60						
18	6	850						
19	8	90						
20	40N 10 E	340						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2 157-21

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	40N 12E	122						
2	14	67						
3	16	165						
4	50'W from 16E	500						
5	14E	128						
6	80'W from 14E Low Spd	155						
7	20	37						
8	22	11						
9	120'W from 22E S @	270						
10	40N 24E	10						
11	40N 26E	29						
12	24	130						
13	150'W from 26E S @	560						
14	40N 30E	21						
15	100W from 30E S	255						
16	302	65						
17	34	13						
18	36	90						
19	40	44						
20	40N 40W from 40E S	170						

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SAMPLE(S) FROM ZENITH MINES

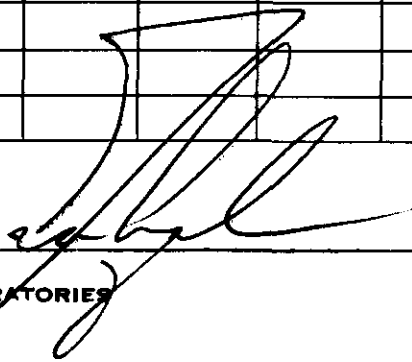
REPORT NO.
112457-11

SAMPLE(S) OF SOILS

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	40N 2W	33						
2	4	36						
3	6	74						
4	8	61						
5	10	11						
6	12	26						
7	14	61						
8	16	130						
9	120'W from 14W S	110						
10	40W 14W	33						
11	40W 20W	51						
12	22	36						
13	40W 24W S @	820						
14								
15								
16		Cu	BY HOT HNO ₃ —ACID EXTRACTION					
17								
18		Cu	DETERMINED BY A.A.					
19								
20								

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ATT. MR. J. HOWARD

SAMPLE(S) FROM ZENITH MINES
408-409 GRANVILLE STREET
VANCOUVER, B.C.

REPORT NO.
V2985-1

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

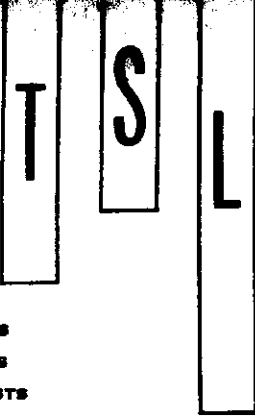
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	Bl 15+100N 3	128						
2	15N "1E" (1+50E) SO	530						
3	15N "3+55E" O	850						
4	15N 2+90WS	230						
5	25N 20W	610						
6	35N 6E	260						
7	35N 14+80E O	3500						
8	17+65E O	2050						
9	23+90E O	860						
10	35N 19+10E S	520						
11	35N 4+80E SO	530						
12	40N 40W	370						
13	60N Bl 659+20N	67						
14	100'E & Bl. O	390						
15	F.T.L. 60+100N 36+20N	86						
16	60N 2E	35						
17	4	255						
18	6	26						
19	8	42						
20	60N 10E	25						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2985-2

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	60N 12E	36						
2	14	35						
3	16	79						
4	18	68						
5	20	52						
6	22	19						
7	24	43						
8	26	91						
9	28	56						
10	60N 30E	35						
11	60N 32E	33						
12	34	46						
13	36	44						
14	38	47						
15	40	31						
16	42	30						
17	44	42						
18	46	27						
19	48	57						
20	60N 50E	53						

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SAMPLE(S) FROM ZENITH MINES

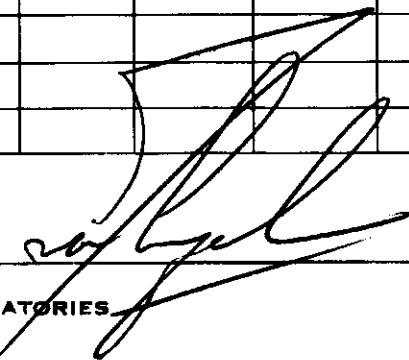
REPORT NO.
V2985-3

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	60N 52E	135						
2	54	26						
3	56E	410						
4	60N 2W	39						
5	4	25						
6	6	38						
7	8	34						
8	10	15						
9	12	38						
10	60N 14W	20						
11	60N 16W	30						
12	18	36						
13	20	45						
14	22	110						
15	24	25						
16	26	14						
17	28	118						
18	30	16						
19	32	21						
20	60N 34W	27						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2985-4

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	60N 36W	10'						
2	39	55						
3	40	99						
4	60N 42W	61						
5	65N BL 0	35						
6	65N SO 100' N from BL	350						
7	65N 1W SO	325						
8	65N S 100' E from 4W	126						
9	WTL 65N 65+30N 2W	360						
10	ETL 65N 32E	31						
11	65N 2E	15						
12	4	28						
13	6	14						
14	8	56						
15	10	59						
16	12	62						
17	14	27						
18	16	41						
19	18	30						
20	65N 20E	36						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2985-5

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	65N 22E	28						
2	24	54						
3	26	48						
4	28	27						
5	30	75						
6	32	97						
7	34	42						
8	36	43						
9	38	70						
10	65N 40E	250						
11	65N 42E	32						
12	44	33						
13	46	27						
14	48	14						
15	50	60						
16	52	600						
17	54	15						
18	56	90						
19	58	235						
20	65N 60E	155						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2985-6

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	65N 2W	46						
2	4	35						
3	6	29						
4	8	57						
5	10	52						
6	12	42						
7	14	210						
8	16	37						
9	18	120						
10	65N 20W	540						
11	65N 22W	33						
12	24	61						
13	26	500						
14	28	13						
15	30	15						
16	32	17						
17	34	15						
18	36	62						
19	38	50						
20	65N 40W	29						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2985-7

SAMPLE(S) OF SOIL

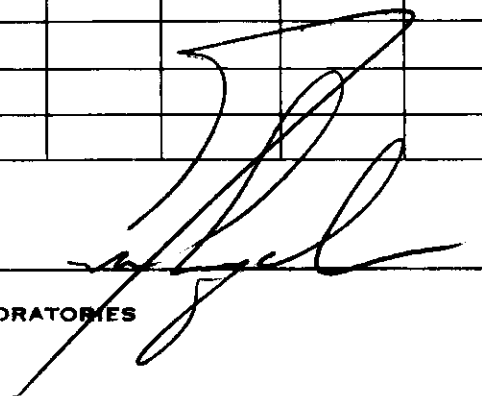
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	WTL 65N 42W	245						
2	20N 2E	140						
3	4	44						
4	6	27						
5	8	390						
6	10	67						
7	12	52						
8	14	42						
9	16	27						
10	20N 18E	43						
11	20N 20E	46						
12	22	102						
13	24	173						
14	26	54						
15	28	100						
16	30	40						
17	32	12						
18	34	54						
19	36	32						
20	20N 38E	86						

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.

V2985-8

SAMPLE(S) OF SOILS

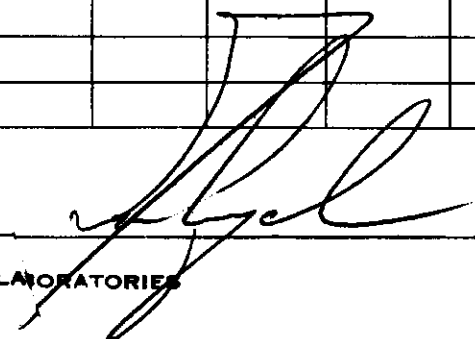
RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	70N 40F	46						
2	42	20						
3	44	27						
4	46	33						
5	48	100						
6	50	63						
7	52	64						
8	54	55						
9	56	61						
10	70N 58E	26						
11	70N 60E	27						
12	62	40						
13	64E	42						
14	70N 2W	54						
15	4	175						
16	6	150						
17	8	50						
18	10	46						
19	12	110						
20	70N 14W	50						

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SAMPLE(S) FROM ZENITH MINES

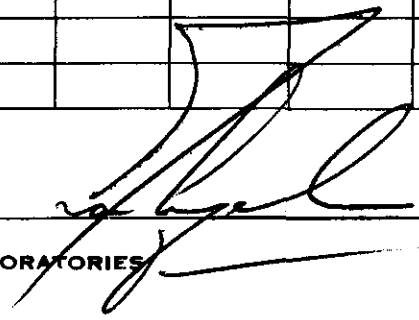
REPORT NO.
V2985-9

SAMPLE(S) OF Soil

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	70N 16W	41						
2	18	17						
3	20	57						
4	22	30						
5	24	26						
6	26	38						
7	28	53						
8	30	54						
9	32	37						
10	70N 34W	15						
		2						
11	70N 36W	26						
12	38	30						
13	40	170						
14	70N 42W	30						
15	SO 70N 70W FROM GE	450						
16	70N BL O	50						
17								
18								
19		Cu	BY HOT HNO ₃ ACID EXTRACTION					
20			DETERMINED BY A.A.					

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SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2978-2

SAMPLE(S) OF SOIL

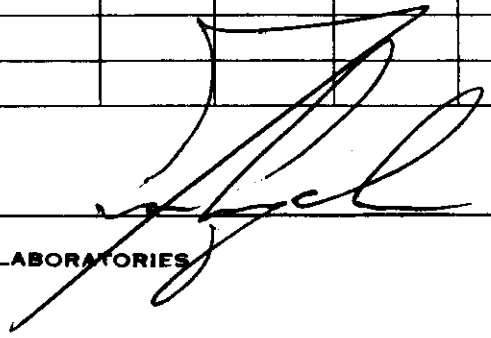
RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	Mo	Co
1	WTL 45+70N	42W	55						
2	45N	A/L 0.0	260						
3	WTL 50N	42W	37						
4	40N	26W	80						
5		28W	32						
6		30W	17						
7		32	29						
8		34	18						
9		36	80						
10		38	74						
11	40N	40W	360						
12	45N	2E	112						
13		4	31						
14		6	28						
15		8	13						
16		10	290						
17		12	14						
18		14	53						
19		16	56						
20	45N	18E	35						

DATE

September 19, 1967

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CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504
AREA CODE 604

ASSAYERS
CHEMISTS
GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

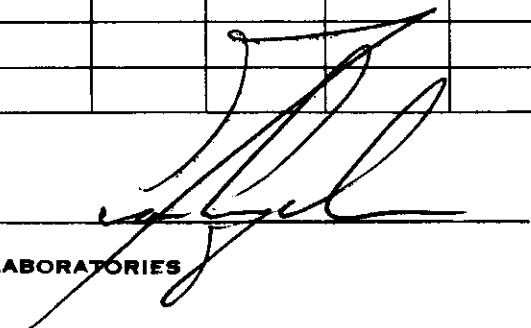
REPORT NO.
V2978-3

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	45N 20E	65						
2	22	80						
3	24	340						
4	26	53						
5	28	50						
6	30	62						
7	32	33						
8	34	84						
9	45N 36E	180						
10	45N 2W	50						
11	4W	24						
12	6	28						
13	8	75						
14	10	130						
15	12	30						
16	14	220						
17	16	65						
18	18	40						
19	20	28						
20	45N 22W	13						

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2978-4

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

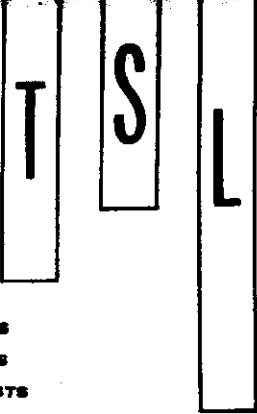
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	45N 24W	141						
2	26	146						
3	28	36						
4	30	16						
5	32	48						
6	34	26						
7	36	20						
8	45N 38W	16						
9	50N 2E	39						
10	4	26						
11	50N 6E	53						
12	8	30						
13	10	35						
14	14	34						
15	16	23						
16	18	42						
17	20	56						
18	22	28						
19	24	85						
20	50N 26E	54						

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AREA CODE 604

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GEOCHEMISTS

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2978-5

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

	SAMPLE No		Cu	Pb	Zn	Ag	Ni	Mo	Co
1	50N	28E	38						
2		30	21						
3		32	30						
4		34	27						
5		36E	20						
6	50N	2W	300						
7		4	117						
8		6	53						
9		8	30						
10		10	135						
11	50N	12W	260						
12		14	45						
13		16	27						
14		18	18						
15		20	650						
16		22	21						
17		24	180						
18		26	79						
19		28	27						
20	50N	30W	20						

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2978-6

SAMPLE(S) OF SOIL

RESULTS IN PARTS PER MILLION

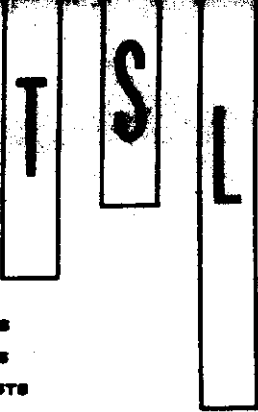
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	50N 32W	14						
2	34	130						
3	36	20						
4	38	40						
5	50N 40W	25						
6	55N 2E	27						
7	4	175						
8	6	110						
9	8	28						
10	10	70						
11	55N 12E	80						
12	14	50						
13	16	57						
14	18	28						
15	20	18						
16	22	37						
17	24	47						
18	26	165						
19	28	16						
20	55N 30E	120						

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CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ZENITH MINES

REPORT NO.
V2978-7

SAMPLE(S) OF

SOIL

RESULTS IN PARTS PER MILLION

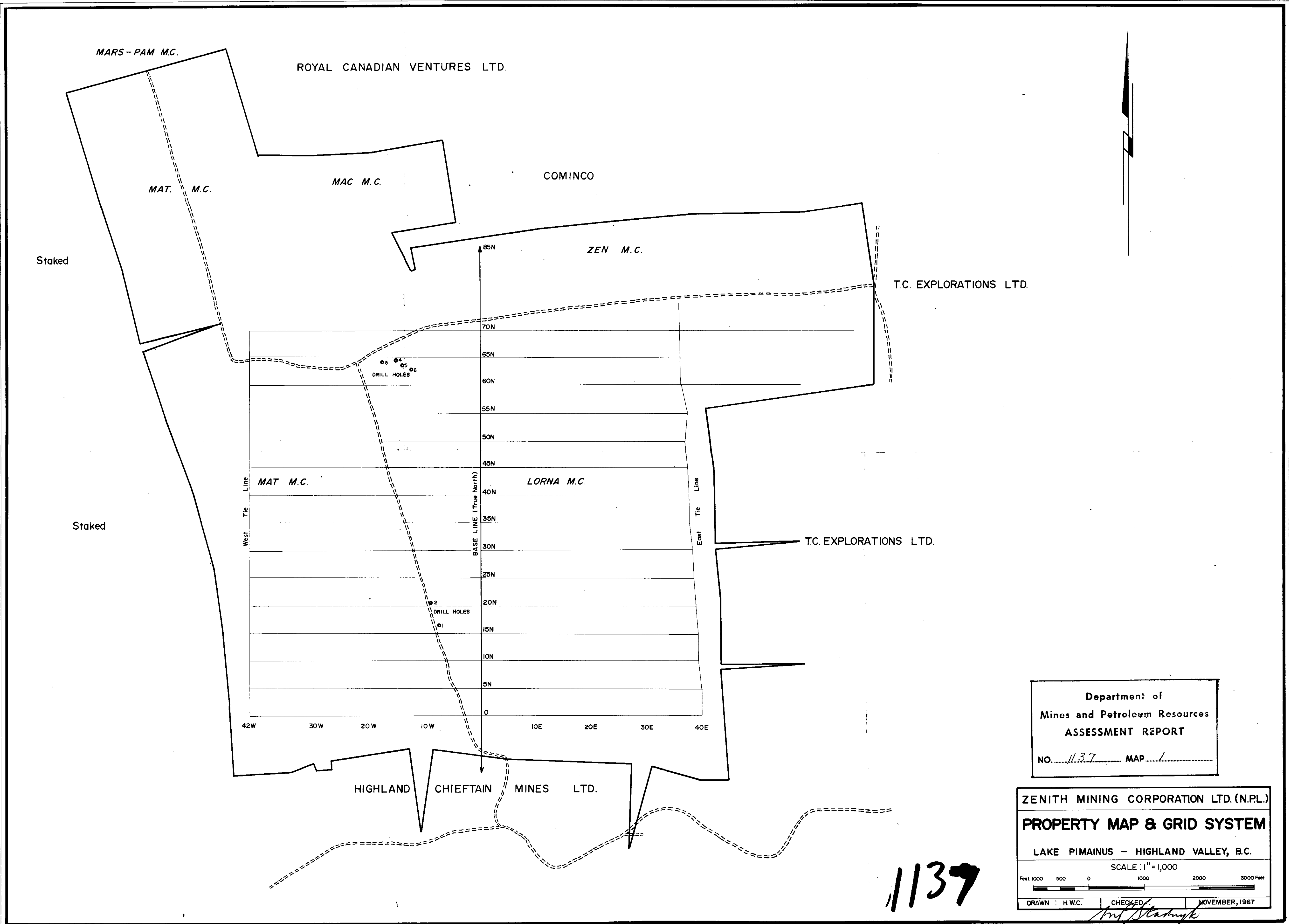
	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Co
1	55N 32E	38						
2	34	10						
3	36E	21						
4	55N 2W	29						
5	4	30						
6	6	34						
7	8	27						
8	10	38						
9	12	26						
10	14	82						
11	55N 16W	25						
12	18	52						
13	20	30						
14	22	55						
15	24	77						
16	26	31						
17	28	120						
18	30	95						
19	32	34						
20	55N 34W	29						
	36	138						
	38	19						
	55N 40W	25						

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T.C. EXPLORATIONS LTD.

HIGHLAND CHIEFTAIN MINES LTD.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1137 MAP 1

ZENITH MINING CORPORATION LTD. (N.P.L.)
PROPERTY MAP & GRID SYSTEM

LAKE PIMAINUS - HIGHLAND VALLEY, B.C.

SCALE: 1" = 1,000
Feet: 1000 500 0 1000 2000 3000 Feet

DRAWN: H.W.C. CHECKED: *[Signature]* NOVEMBER, 1967

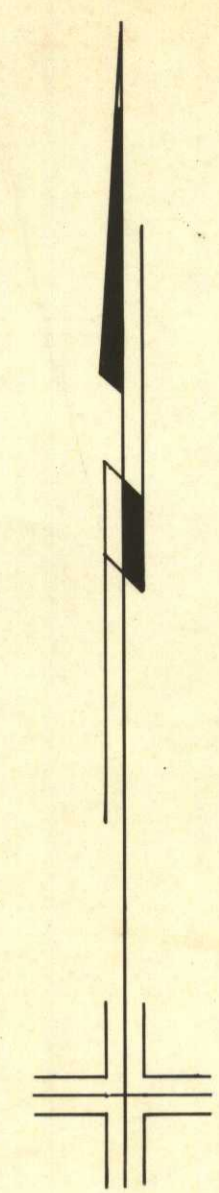
1137



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 1137 MAP 2

ZENITH MINING CORPORATION LTD. (N.P.L.)
MINERAL CLAIM MAP
LAKE PIMAINUS - HIGHLAND VALLEY, B.C.
SCALE: 1" = 1,000'
Foot 1000 500 0 1000 2000 3000 Feet
DRAWN: H.W.C. CHECKED: NOVEMBER, 1967

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LEGEND

- 700 Sample location (Cu. values in ppm)
- Y Swamp
- Streams
- Roads
- Trenches

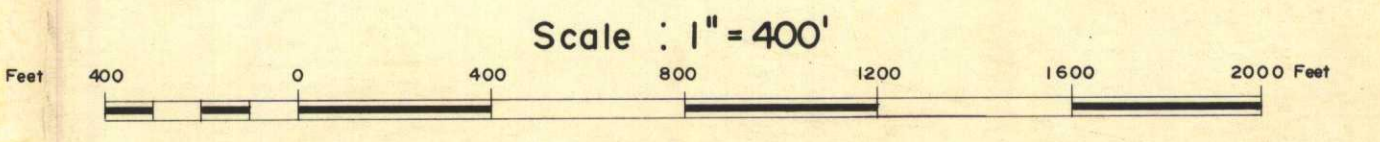
SOIL SAMPLE COLOUR LEGEND

EAGLE VERITHIN NO.	COPPER VALUES (PPM)
738 1/2	0 - 50
739 1/2	51 - 100
757	101 - 150
736	151 - 200
736 1/2	201 - 300
757	301 - 400
750	401 - 500
744	501 - 600
752	601 +

T.C. EXPLORATIONS LTD.

Department of
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 ASSESSMENT REPORT
 NO. 1137 MAP 5

ZENITH MINING CORPORATION LTD.(N.P.L.)
 GEOCHEMICAL MAP
 Copper Dispersion Patterns
 LAKE PIMAINUS — HIGHLAND VALLEY, B.C.



1137

Drawn: H.W.C.
 Checked: M.P.S.
 NOVEMBER, 1967

HIGHLAND CHIEFTAIN MINES