

2901

REPORT ON GEOLOGICAL AND GEOCHEMICAL WORK
PERFORMED BY HIGHMONT MINING CORPORATION LTD.
FROM JULY 1ST TO SEPTEMBER 30TH, 1970 ON THE
PEN CLAIMS, LATITUDE $50^{\circ} 23'$ NORTH, $120^{\circ} 57'$
WEST, IN THE HIGHLAND VALLEY AREA, KAMLOOPS
MINING DIVISION, BRITISH COLUMBIA.

*Deposit
Yubert (Stellato Mining)*

BY

A.J. REED, P.ENG.

Dated: February 26th, 1971.

Alan J. Reed,

<p>Department of Mines and Petroleum Resources ASSESSMENT REPORT</p> <p>NO. <u>2901</u> MAP.....</p>
--

TABLE OF CONTENTS

INTRODUCTION Page 1

PHOTOGEOLOGICAL ANALYSIS Page 3

GEOCHEMISTRY - SOIL SAMPLING Page 5

GEOLOGICAL MAPPING Page 7

ECONOMIC MINERALIZATION Page 11

RECOMMENDATIONS FOR FURTHER WORK Page 12

DECLARATION OF COSTS Page 13

CERTIFICATE Page 14

ILLUSTRATIONS (IN POCKET)

- #1 FIGURE #1: PHOTOGEOLOGICAL ANALYSIS OF THE ROSCOE LAKE AREA. 1" = 2000'
- 2 FIGURE #2: DETAILED GEOLOGY. 1" = 200'
- 3 FIGURE #3: SOIL SAMPLE GEOCHEMISTRY. 1" = 200'
- 4 FIGURE #4: HISTOGRAM OF SOIL SAMPLE COPPER ASSAYS.
- 5 FIGURE #5: HISTOGRAM OF SOIL SAMPLE MOLYBDENITE ASSAYS

REPORT ON GEOLOGICAL AND GEOCHEMICAL WORK PERFORMED BY HIGHMONT MINING CORPORATION LTD. FROM JULY 1ST TO SEPTEMBER 30TH, 1970 ON THE PEN CLAIMS LATITUDE 50° 23' NORTH, 120° 57' WEST IN THE HIGHLAND VALLEY AREA, KAMLOOPS MINING DISTRICT, BRITISH COLUMBIA.

INTRODUCTION

The PEN claims consist of 8 full-sized mining claims, numbered #1 to #8, and one fractional mining claim, numbered PEN #1 FRACTION, located within the Kamloops Mining Division at the south end of Roscoe Lake, which is approximately 20 miles northnorthwest of Merritt.

The PEN claims are accessible by roads suitable for 4-wheel drive vehicles from the Highmont property at Gnawed Mountain; from the Highland Valley road via Jericho, Billy Lake and Chataway Lake; and from Merritt via the Craigmont road.

The PEN claims comprise the ground that was originally staked as the "YUBET" claims on a discovery zone of spectacular bornite and chalcocopyrite mineralization occurring within altered aplite. The YUBET claims were optioned by Stellako Mining Company Ltd. and Noranda Explorations who performed geophysical, geochemical and geological work, followed up by diamond-drilling and bulldozer trenching. W.M. Sharp, in a report dated December 1966, interpreted the results of this work as indicating an elliptical area on surface approximately 250 feet long and 57.5 feet wide, with a grade of 2.25% copper, diminishing very rapidly in grade and width between surface and depth of about 100 feet. The current Highmont program was designed to further investigate this "Discovery zone" and to seek other similar but unexposed zones on the property. The techniques employed were:

- (1) Photogeological analysis

- (2) Geochemical soil sampling
- (3) Bulldozer trenching
- (4) Geological mapping

PHOTOGEOLOGICAL ANALYSIS

A photogeological study of the ground covered by the PEN claims was made using a Dietzgen binocular stereoscope and air-photographs at a scale of approximately one inch to two thousand feet, flown by Lockwood Survey Corporation on 22nd August, 1969 at altitude of 17,000 feet above sea level, using a camera with focal length of six inches.

Figure (1) is a photogeological interpretation of the area around Roscoe Lake and shows three primary fractures: the Gnawed Mountain Break, the Lornex-Highmont Linear and the Roscoe Lake Linear, together with a series of secondary fractures generally striking northeasterly.

The Gnawed Mountain Break strikes eastsoutheasterly and may be traced for at least four miles along strike. At Gnawed Mountain itself, dykes of porphyritic granodiorite and tourmaline breccia (Minex Porphyry and Trojan Breccia respectively) have been intruded along the line of break. Important copper-molybdenum mineralization occurs on both flanks of the Gnawed Mountain Break on the Highmont property.

The Lornex-Highmont Linear strikes southsoutheasterly and can be traced at least 5 miles along strike. On the Highmont property, small lenses and pockets of copper-molybdenum mineralization are known close to this feature and with a sub-parallel orientation to it.

The Roscoe Lake Linear strikes N.10°E. along the east side of Roscoe Lake. South of Roscoe Lake, a dyke of pink aplite, which may be up to 500 feet wide, has been intruded along this feature. The "Discovery Zone" of the PEN claims occurs along the western side of the dyke. A series of

northeasterly striking linear features which may be traced across the area for distances of up to two miles appear to be secondary in importance to the three primary features already described. The dislocation of the drainage in the area immediately west of Roscoe Lake suggests that movement occurred along some of the northeasterly striking fractures with a horizontal component of right lateral displacement.

The "Discovery Zone" which has been known since 1965 on the PEN claims occurs along the Roscoe Lake Linear, where it is joined by two northeasterly striking and one northwesterly striking secondary fractures. The mineralization is considered to occur as a "plum" at the intersection of the various fractures. The search for further "plums" on the property should consider all of the similar fracture intersections. Several of these fracture intersections are shown on Figure (1) and the most interesting of these appear to be:-

- (a) On the Roscoe Lake Linear at the south end of the Roscoe Lake
- (b) On the eastern side of the property along an unnamed linear which strikes northerly, sub-parallel to the Roscoe Lake Linear

If the geochemical survey shows anomalous values correlating with any of the various fracture intersections shown in Figure (1), then these should be the prime targets for the follow-up work.

GEOCHEMISTRY - SOIL SAMPLING

Soil samples were collected at intervals of 100 feet along east-west trending lines spaced 400 feet apart. In areas of especial interest, further samples were taken on a square grid spacing of 100 feet. Samples were taken from the upper part of the B horizon by digging a hole approximately 9 inches deep with a mattock and collecting a sample from the bottom of the hole. The sample was placed into a special paper envelope supplied by Barringer Research Ltd. and dried by hanging the envelope on a wire in a heated room. After drying, the sample was shaken through an 80-mesh nylon screen. The fine material passing through the screen was sealed in a paper envelope and sent to Seymour Labs. to be assayed for copper and molybdenite. The coarse fraction which did not pass the 80-mesh screen was discarded.

Seymour Labs. assayed the samples by hot acid digestion with determination of copper and molybdenite by atomic absorption methods.

Figure (3) shows the location, sample number, copper assay and molybdenite assay for each of the soil samples taken. Histograms were compiled showing frequency and grade of assay for both copper and molybdenite; these are reproduced as figures (4) and (5). Visual examination of the histograms indicated that, for copper, anything up to 175 or 200 ppm. could be considered as background, whereas for molybdenite background could be taken as all values up to 5 ppm.

The areas of anomalously high copper and molybdenite values in the soil correspond remarkably well with the intersections of air-photo linears shown on figure (1).

On the PEN #2 and #4 claims, the anomalous zones occur along the lineation which, it has been noted previously, might correspond with the Bethsaida/Skeena contact.

On the PEN #1 and #3 claims, anomalous values occur only in isolated samples and do not appear to hold much promise.

On the PEN #5 and #8 claims, anomalous zones occur along the Roscoe Lake Linear. On the PEN #8 claim, the anomalies are associated with the known mineralization. The anomaly on the PEN #5 claim, immediately south of Roscoe Lake, is in a very interesting position and should be explored further.

On the PEN #7 claim, there is an interesting anomaly at the northern corner of the claim. This also corresponds with an intersection of air-photo linears.

The PEN #6 claim has two anomalous areas but these appear less attractive than the anomalies associated with the north-trending linears.

GEOLOGICAL MAPPING

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 granodioritic Guichon Creek Batholith into 6 phases and ²number 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 PEN claims lie close to the edge of the outcrop of the Bethsaida phase and probably include part of the slightly older Bethsaida or Skeena phase.

Figure (2) is the geological map produced during the current work programme. The whole of the PEN claims are mantled by glacial till varying in thickness from 2 feet to more than 15 feet. In general, the glacial deposits are thinnest on the western side of the property and become thicker towards the east. The only natural bedrock exposures occur on the PEN #7 and #8 claims and on the PEN #1 Fraction. All other bedrock exposures on the property have been made by trenching with a bulldozer either during the current programme of work or in previous years.

Bethlehem or Skeena Phase.

Rocks of the Skeena or Bethlehem phase of the Guichon Creek Batholith are not exposed anywhere on the PEN claims but probably occupy the eastern half of the PEN #2 claim. A short distance northeast of the PEN #2 claim at 48 E. on line 32 N., there is an exposure of Skeena in a rock bluff overlooking a small glacial overflow channel. The Skeena is a light grey, coarse-grained quartz-diorite characterised by the presence of two generations of hornblende (large poikilitic tabular crystals up to 1 inch or more in diameter

and small ^a circular prisms usually less than 1/2 inch in length) and a tendency for quartz to show an interstitial relationship with the other minerals. The contact between the Skeena and Bethsaida phases is thought to coincide with LINEAR "A" on Figure 1.

Bethsaida Phase

Rocks of the Bethsaida phase of the Guichon Creek Batholith are exposed on PEN #1, #3, #5, #7, #8 claims and PEN #1 Fraction.

On the PEN #1 claim, Bethsaida is exposed in the trench at 26E on the line 29 N. The overburden is 11 feet thick at the point. The rock is pale cream or pinkish cream in colour with hypidiom^corphic inequigranular texture. Subhedral cream coloured plagioclase crystals generally 1/4 inch in length constitute approximately 50% of the volume. Quartz occurs as stubby subhedral crystals up to 1/4 inch diameter, making up about 20% of the volume. Pink orthoclase occurs in somewhat diffuse blobs, apparently interstitial to quartz and plagioclase, forming approximately 10% of the volume. There are a few sparsely scattered grains of chalcopyrite at this exposure.

On the PEN #3 claim, Bethsaida is exposed in a trench at 19 E. on line 29 N. The rock is very similar to that of the PEN #1 claim with a slightly greenish tinge due to an increasing degree of sericite alteration of the plagioclase. There is no visible mineralization at this exposure.

On the PEN #5 claim, Bethsaida exposed in a trench at 3 W., 15 N. The overburden is 12 feet deep at this point. The rock is coarse-grained with a slightly pinkish colour and shows traces of malachite on some fractures.

On the PEN #7 claim, Bethsaida is exposed in 5 natural outcrops and 2 trenches. The rock is generally fresh, showing pink and white feldspar in the western part of the claim. On the eastern side of the claim, there is an aplite sill, 18 inches thick, dipping northeastwards at 35° .

On the PEN #8 claim, the Bethsaida shows moderate to intense sericite alteration and also a tendency for an aplitic matrix to be present enclosing the coarse phenocrysts of quartz, feldspar and biotite which are characteristic of the Bethsaida.

On the PEN #1 Fraction, there is a natural exposure of fresh Bethsaida with unusually well developed phenocrysts of plagioclase.

Aplite

Aplite is exposed on the PEN #7 and #8 claims on numerous trenches. The aplite has the form of a dyke trending $N.10^{\circ}E$. which is exposed for a distance of 1400 feet along strike. The dyke appears to bifurcate or branch at its southern end and has width of at least 500 feet. The aplite is pink in colour with typically aplitic texture. Many of the joints show well developed dendritic coating or "fern" of pyrolusite.

The western margin of the dyke is exposed in the trenches and shows intense sericite alteration of the aplite close to the edge. The actual contact is gradational with a sequence of rock types ranging from fresh aplite *through* of intensely-altered aplite, followed by a contact zone consisting of Bethsaida-type quartz and feldspar phenocrysts in an aplitic matrix, which is followed in turn by a zone of sericite-altered Bethsaida fading into fresh Bethsaida away from the aplite dyke. Two small pockets of spectacular

quartz-bornite-chalcopyrite mineralization have been found within the intensely-altered aplite close to the western margin of the dyke.

The eastern margin of the dyke is not exposed and is believed to lie underneath the long swamp area which extends southwards from Roscoe Lake. There seems to be no obvious reason why the eastern margin of the dyke should not be mineralized in the same fashion as the western margin and this is an exciting possibility that is completely unexplored to date.

ECONOMIC MINERALIZATION

Two pockets of bornite-chalcopyrite mineralization occur on the PEN #8 claim within the intensely-altered marginal zone of the aplite dyke. The northernmost pocket occupies an area of about 13,500 square feet on surface but is very rapidly reduced in size below ground level. Estimated reserves in this pocket are 33,750 tons at 2.25% copper. The southernmost pocket is roughly oblong in shape with a surface area of about 4,800 square feet. Reserves in this pocket are estimated at 12,000 tons at 1% copper.

RECOMMENDATIONS FOR FURTHER WORK

There are three structural features present on the PEN claims where small pockets of 2% - 3% copper mineralization could occur. These structures should be tested with saturation programme of either percussion drill holes or small diameter diamond drill holes as follows:

1. The western margin of the aplite dyke between the Discovery showing and the south end of Roscoe Lake should be tested with 9 holes, to be drilled eastwards at -45° to a depth of 300 feet and spaced out at intervals of 200 feet along the strike of the dyke.
2. The eastern margin of the aplite dyke should be tested by 9 holes drilled at -45° to a depth of 300 feet beneath the slough on the PEN #5, 6 and #8 claims.
3. The air-photo linear with associated soil anomalies on the PEN #2 claim should be tested by 7 holes drilled westward at -45° to a depth of 300 feet.

DECLARATION OF COSTWAGES & SALARIES

A.J. REED	CHIEF GEOLOGIST	\$1200.00 per month	
	July, August, September - 10% of time		\$ 360.00
	February 1971 - 50% of time		\$ 600.00
BERT TAYLOR	GEOLOGIST	\$1100.00 per month	
	July, August, September - 100% of time		\$3300.00
FRANK MANTLE	ENGINEERING ASSISTANT	\$ 525.00 per month	
	July, August - 100% of time		\$1050.00
BRUCE FALKINS	ENGINEERING ASSISTANT	\$ 525.00 per month	
	July - 100% of time		\$ 525.00
CRICHTON CLARKE	ENGINEERING ASSISTANT	\$ 525.00 per month	
	August - 100% of time		\$ 525.00
BRIAN McCLAY	CAT OPERATOR	\$ 3.77 per hr.	
	July 20th - Aug. 7th - 126 hours		\$ 475.00
TOTAL WAGES:			<u>\$6835.00</u>

DIRECT COSTS

1. FREE BOARD & LODGING TO SALARIED STAFF:

BERT TAYLOR	64 days at \$8.60 per day
FRANK MANTLE	43 " " " " "
BRUCE FALKINS	22 " " " " "
CRICHTON CLARKE	21 " " " " "

TOTAL	150 days at \$8.60 per day =	\$1290.00
-------	------------------------------	-----------

- | | |
|---|---------------------|
| 2. RENTAL OF D8 BULLDOZER FROM TYMAC CONSTRUCTION LTD.
July 20th - Aug. 7th, 1970 - 69 hours at \$26.50
per hour (invoice attached) | \$1828.50 |
| 3. RENTAL OF CHEV. 4x4 TRUCK FROM SYD SMITH U-DRIVE
2 weeks and 5 days (invoice attached) | \$ 388.80 |
| 4. PURCHASE OF SOIL SAMPLE BAGS & NYLON SCREEN FROM
BARRINGER RESEARCH (see invoice attached) | \$ 31.00 |
| 5. ASSAY OF SOIL SAMPLES BY SEYMOUR LABORATORY LTD.
(see attached invoice) | \$ 821.86 |
| 6. USE OF HIGHMONT 4x4 TRUCK, 6 weeks at \$78.00 per week | \$ 468.00 |
| TOTAL COST: | <u>\$ 11,663.16</u> |

C E R T I F I C A T E

I, Alan James Reed of Ashcroft, British Columbia do hereby certify that:

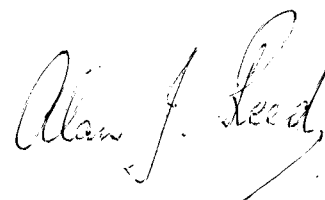
I am a geologist employed by Highmont Mining Corporation Ltd. of 700 - 1177 West Hastings Street, Vancouver 1, B.C.

I am a Professional Engineer registered in the Province of British Columbia and the Province of Ontario.

I am a graduate of the University of Leeds, with a B.Sc. (Hons.1963) in Geology.

I have practised my profession since 1963 while employed by the Geological Survey of Jamaica, Siscoe Metals of Ontario Ltd. and Highmont Mining Corp. Ltd.

This report deals with work performed on the PEN claims under my supervision during the months of July, August and September 1970.



Dated: February 26, 1971
Ashcroft, B.C.

Alan J. Reed, P.Eng.

Hertz

Syd Smith Drive Ltd.,
459 Victoria Street,
Kamloops, B.C.

RENTAL AGREEMENT
CONTRAT DE LOCATION C-988632

TECK CORPORATION

HEREINAFTER CALLED LESSEES OR APRES APPELEE LOCATEUR

NO. Highmont Mining Corp Ltd		UNIT NUMBER - NO DU VEHICULE 178-9	VEHICLE CHECKED IN AT (CITY) KAMLOOPS	DATE & TIME - DATE & HEURE 11 AM
TO BE PAID BY M J PORTER		OWNING CITY - VILLE PROP. KAMLOOPS	STATION KAMLOOPS	IN ARRIVEE July 25/70
ADDRESS 702 250 W HASTINGS ST		VEHICLE MAKE - MARQUE Chrysler 4x4 1/2	VEHICLE RENTED AT (CITY) KAMLOOPS	DATE & TIME - DATE & HEURE 2:30 pm
VAN 1 BC		LICENSE NO. - PLAQUES J95W 6 150	STATION KAMLOOPS	OUT DEPART July 6/70
2148 865 0002 1D		PROV. BC	VEHICLE TO BE CHECKED IN AT (CITY) KAMLOOPS	DATE & TIME - DATE & HEURE 10:20 AM
DRIVER'S LICENSE NO. - PERMIS DU CONDUCTEUR 1011047		EXPIRES 11 70	STATION KAMLOOPS	DATE & TIME - DATE & HEURE 10:20 AM
PASSPORT NO. - PASSEPORT 1011047		ISSUED BY & DATE BC	STATION KAMLOOPS	DATE & TIME - DATE & HEURE 10:20 AM
LOCAL ADDRESS - ADRESSE LOCALE		TELEPHONE	HOURS @ \$	
SECOND ADDRESS - DEUXIEME ADRESSE		TELEPHONE	DAYS @ \$ 5	
COLLISION DAMAGE WAIVER		EXCLUSIONS DU DOMMAGE DU A UNE COLLISION	WEEKS @ \$ 2	
S 200		INITIALS J.P.	MILES @ 13 PER MILE	
I HAVE READ THE TERMS & CONDITIONS ON PAGE 1 (OTHER SIDE) AND PAGE 2 OF THIS RENTAL AGREEMENT AND AGREE THERETO.		J'AI PRIS CONNAISSANCE DES CLAUSES ET CONDITIONS DE LA PAGE 1 (REVERSI) ET DE LA PAGE 2 DE CE CONTRAT DE LOCATION ET JE LES ACCEPTE.	SUB TOTAL 374.92	
FOR Hertz USE ONLY - ESPACE RESERVE A Hertz		RENTAL AGREEMENT / CONTRAT DE LOCATION	SUB TOTAL 374.92	
PRICES O.K.		SHOW RENTAL AGREEMENT NO. ON ALL CORRESPONDENCE	INTERCITY FEE / FRAIS INTER-CITÉS	
EXTINGUISHERS O.K.		INITIALS J.P.	RENTAL CHARGE / FRAIS DE LOCATION	
APPROVED - TRUCK		PREPARED BY - PREPARE PAR HAL	5% TAX B.C. 16.87	
APPROVED - RENTAL		CASH REFUND - REMBOURSEMENT COMPTANT	COLLISION DAMAGE WAIVER / FRAIS D'EXONERATION DE DOMMAGES PAR COLLISION 30.00	
COMPLETED BY / COMPLETE PAR Doopidui		GAS - REP - GAZ	TOTAL CHARGE / TOTAL DES FRAIS 384.30	
DAY / MOIS			LESS: GAS REPAIRS / MOINS: ESSENCE / REPARATION 4.50	
			AMOUNT DUE / MONTANT DU 388.80	

vehicle

TYMAC CONSTRUCTION LTD.

705 - 850 West Hastings Street

Vancouver 1, B.C.

August 19th, 1970

In Account With:

Highmont Mining Corp. Ltd.
702 - 850 West Hastings Street
Vancouver 1, B.C.

Re:

Rental of D8 Cat

June 1 - 30/70	-	74 hrs @ \$ 26.50/hr	=	\$ 1,961.00
July 1 - 31/70	-	131 hrs @ \$ 26.50/hr	=	3,471.50
Aug. 1 - 12/70	-	51 hrs @ \$ 26.50/hr	=	<u>1,351.50</u>
				\$ 6,784.00

Less: Advances paid on account.

July 8/70	-	\$ 1,500.00	
July 24/70	-	<u>2,500.00</u>	<u>4,000.00</u>
			\$ 2,784.00

Less: Purchases by Highmont for Tymac.

Finning Tractor & Equip.Ltd.
#65657,66447,67091,67196,
67612. 135.04

Imperial Oil Limited.
#151590,151640,151692,
151725,151912,151996. 429.03 564.07

\$ 2,219.93

TECK CORPORATION
and its agent
HIGHMONT MINING

PRICES O. K.	
EXTENS-ADDTNS O. K.	<i>JH</i>
APPROVED - TECK	<i>JD</i>
APPROVED - HIGHMONT	<i>W.W.</i>

BARRINGER RESEARCH LIMITED

304 CARLINGVIEW DRIVE
REXDALE, ONTARIO, CANADA
PHONE: 416-677-2491
CABLE: BARESEARCH

DATE: June 27, 1970

PROJECT: 120.33

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT:

FED. SALES TAX:

ONT. SALES TAX:

5 - B - F

Paid

Exempt (B.C.)

Highmont Mining
805 West Hastings St.,
Vancouver 2, B.C.

TERMS: NET

AUTHORITY: B. Taylor

TO: Geochemical Supplies

1,000 field envelopes
1,400 lab envelopes

25.00

6.00

31.00

INVOICE NO 6087

SEYMOUR LABORATORY LTD.147 RIVERSIDE DRIVE,
NORTH VANCOUVER, B.C.

TELEPHONE 929-2228

INVOICE/FILE No. 2053/1125

PLEASE PAY FROM THIS INVOICEDirect to 700 - 1177 West Hastings Street, Vancouver 1, B.C.
Monthly statements will not be issued except where necessary to confirm balance.
TERMS NET 15th of Month Following"TECK CORPN. & IT'S AGENT
HIGHMONT MINING " CORPN. LTD.
720-850 WEST HASTINGS ST.,
VANCOUVER 1, B.C.

DATE: JULY 28, 1970

ATTEN: MR. R.W. FALKINS

	CEO - CHEM TESTING	AMOUNT
243	DETERMINATIONS FOR COPPER AT \$1.00 EACH	\$243.00
243	DETERMINATIONS FOR MOLYBDENUM AT \$.45 EACH	109.35
243	SAMPLE PREPARATIONS FOR SOIL AT \$.20 EACH	48.60
		<hr/>
		400.95
	LESS 15%	60.14
		<hr/>
	TOTAL -----	\$340.81
	(IN TRIPLICATE)	

SEYMOUR LABORATORIES LTD.

47 RIVERSIDE DRIVE,
NORTH VANCOUVER, B.C.

TELEPHONE 929-2228

INVOICE/FILE No. 2035 / 1114

PLEASE PAY FROM THIS INVOICE
Direct to 401 - 1111 West Hastings Street, Vancouver 1, B.C.
Monthly statements will not be issued except where necessary to confirm balance.
TERMS NET 15th of Month Following.

• "TECK CORPN. & IT'S AGENT
• HIGHMONT MINING" CORPN. LTD.
• \$ 720 - 350 West Hastings St.
• Vancouver 1, B. C.

DATE: July 24, 1970

• Attn: Mr. R. W. Falkins

		AMOUNT
85	Determinations for Copper @ \$1.00 Each	\$ 85.00
85	Determinations for Molybdenum @ \$.45 Each	38.25
85	Sample Preparations @ \$.20 Each	17.00
		<hr/>
		140.25
	LESS 15 %	21.04
		<hr/>
	TOTAL -----	\$119.21

(IN TRIPLICATE)

SEYMOUR LABORATOI LTD.

147 RIVERSIDE DRIVE,
NORTH VANCOUVER, B.C.

TELEPHONE 929-2228

INVOICE/FILE No. 2069 / 1122

PLEASE PAY FROM THIS INVOICE

Direct to 401 - 1111 West Hastings Street, Vancouver 1, B.C.
Monthly statements will not be issued except where necessary to confirm balance.
TERMS NET 15th of Month Following.

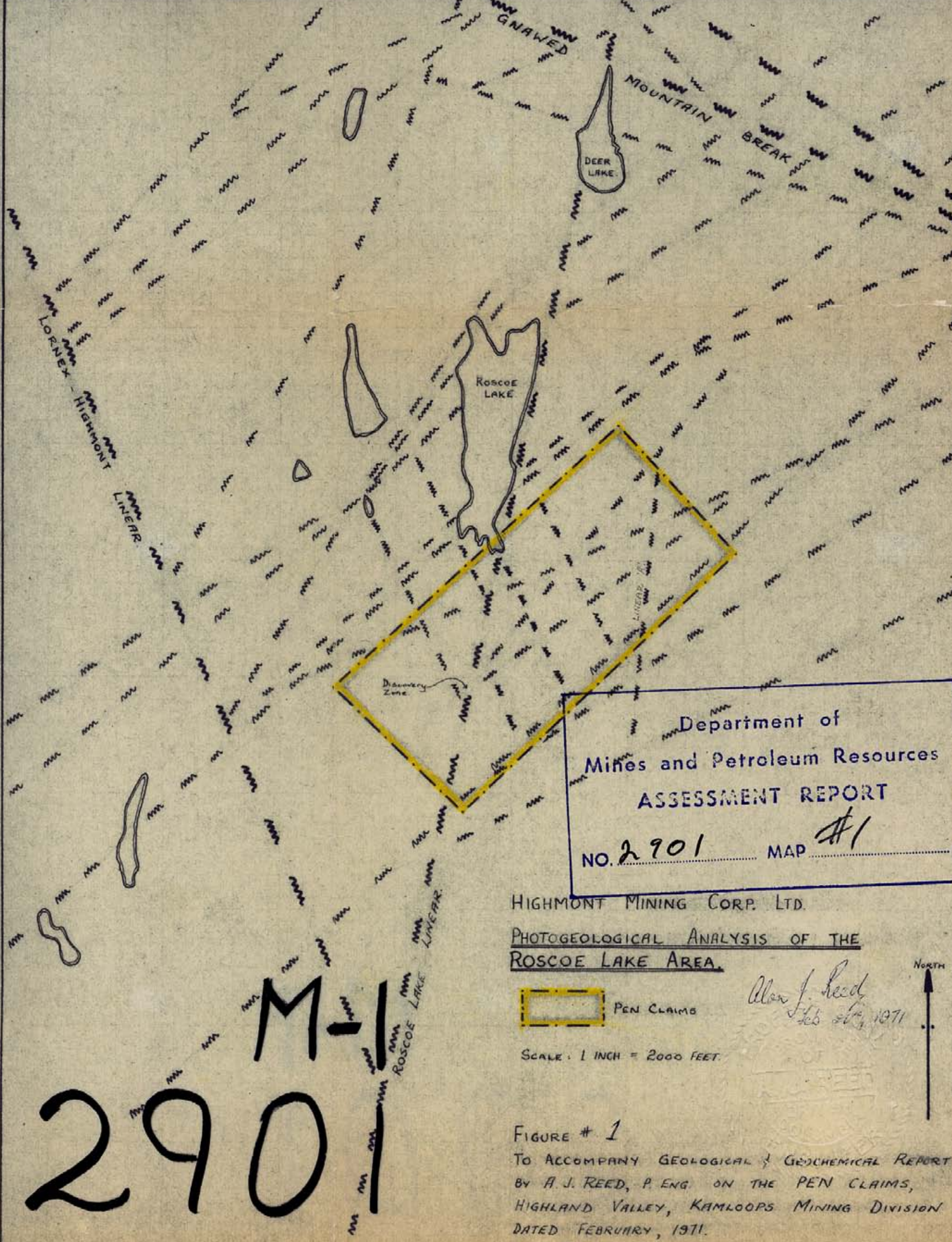
• " TECK CORPN. & IT'S AGENT
• HIGHMONT MINING " CORPN. LTD.
• # 720 - 850 West Hastings St.
• Vancouver 1, B. C.

DATE: July 31, 1970

Attn: Mr. R. W. Falkins

		AMOUNT
258	Determinations for Copper @ \$1.00 Each	\$258.00
258	Determinations for Molybdenum @ \$.45 Each	116.10
258	Sample Preparations @ \$.20 Each	51.60
		<hr/>
		425.70
	LESS 15 %	63.86
	TOTAL -----	<hr/>
		\$361.84


(Amending Our Invoice # 2047)
(IN TRIPLICATE)



Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. 2901 MAP #1

HIGHMONT MINING CORP. LTD.

PHOTOGEOLOGICAL ANALYSIS OF THE
ROS COE LAKE AREA.

 PEN CLAIMS

SCALE: 1 INCH = 2000 FEET.

Alan J. Reed
 Feb 26, 1971



M-1
 2901

FIGURE # 1
 TO ACCOMPANY GEOLOGICAL & GEOCHEMICAL REPORT
 BY A. J. REED, P. ENG. ON THE PEN CLAIMS,
 HIGHLAND VALLEY, KAMLOOPS MINING DIVISION
 DATED FEBRUARY, 1971.

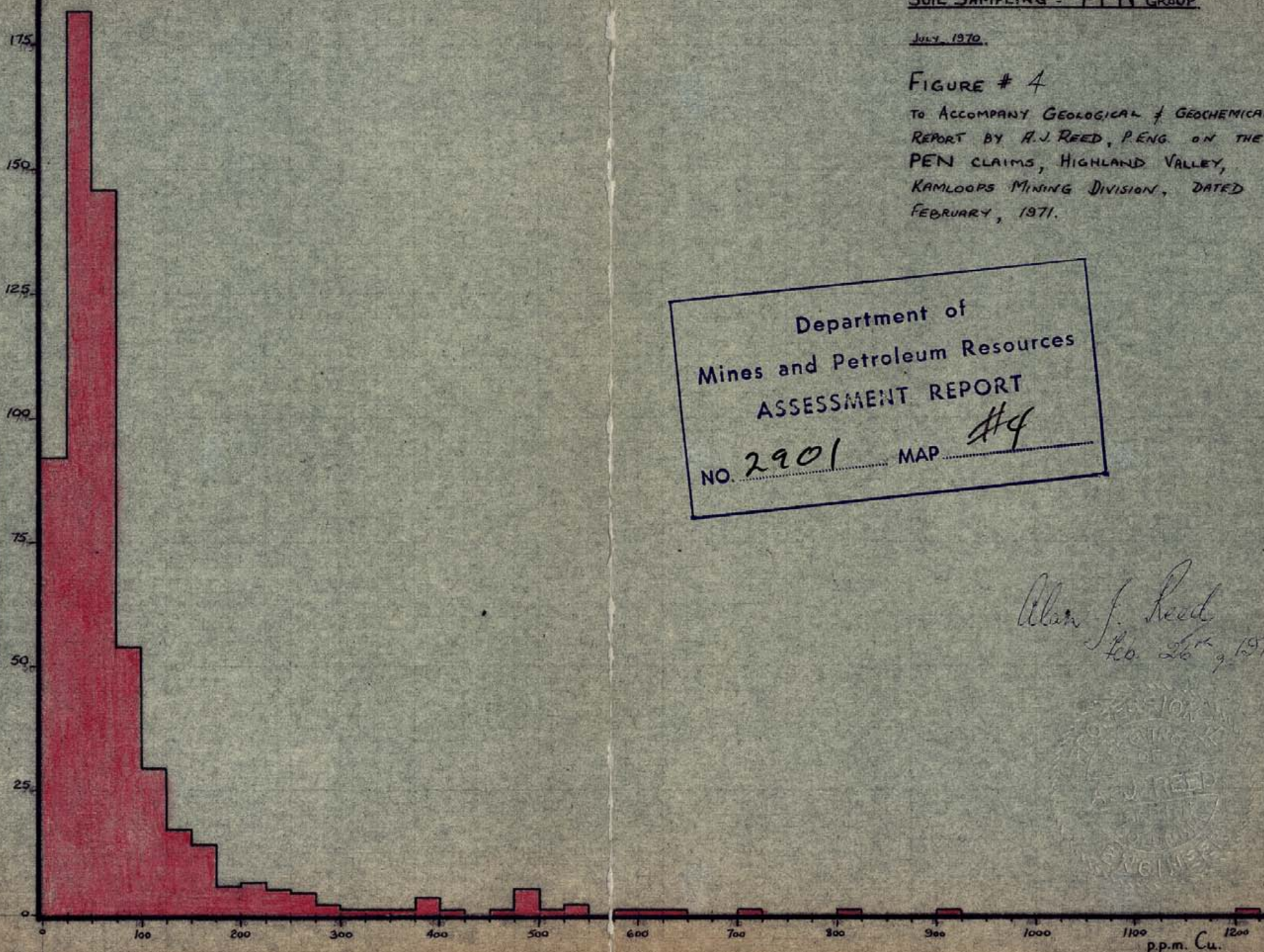
HIGHMONT MINING CORP. LTD.
SOIL SAMPLING - PEN GROUP

JULY 1970

FIGURE # 4

TO ACCOMPANY GEOLOGICAL & GEOCHEMICAL
REPORT BY A.J. REED, P.ENG. ON THE
PEN CLAIMS, HIGHLAND VALLEY,
KAMLOOPS MINING DIVISION, DATED
FEBRUARY, 1971.

Number of Samples



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2901 MAP #4

Alan J. Reed
Feb 26th 1971



p.p.m. Cu.

HIGHMONT MINING CORP. LTD.
SOIL SAMPLING - PEN GROUP

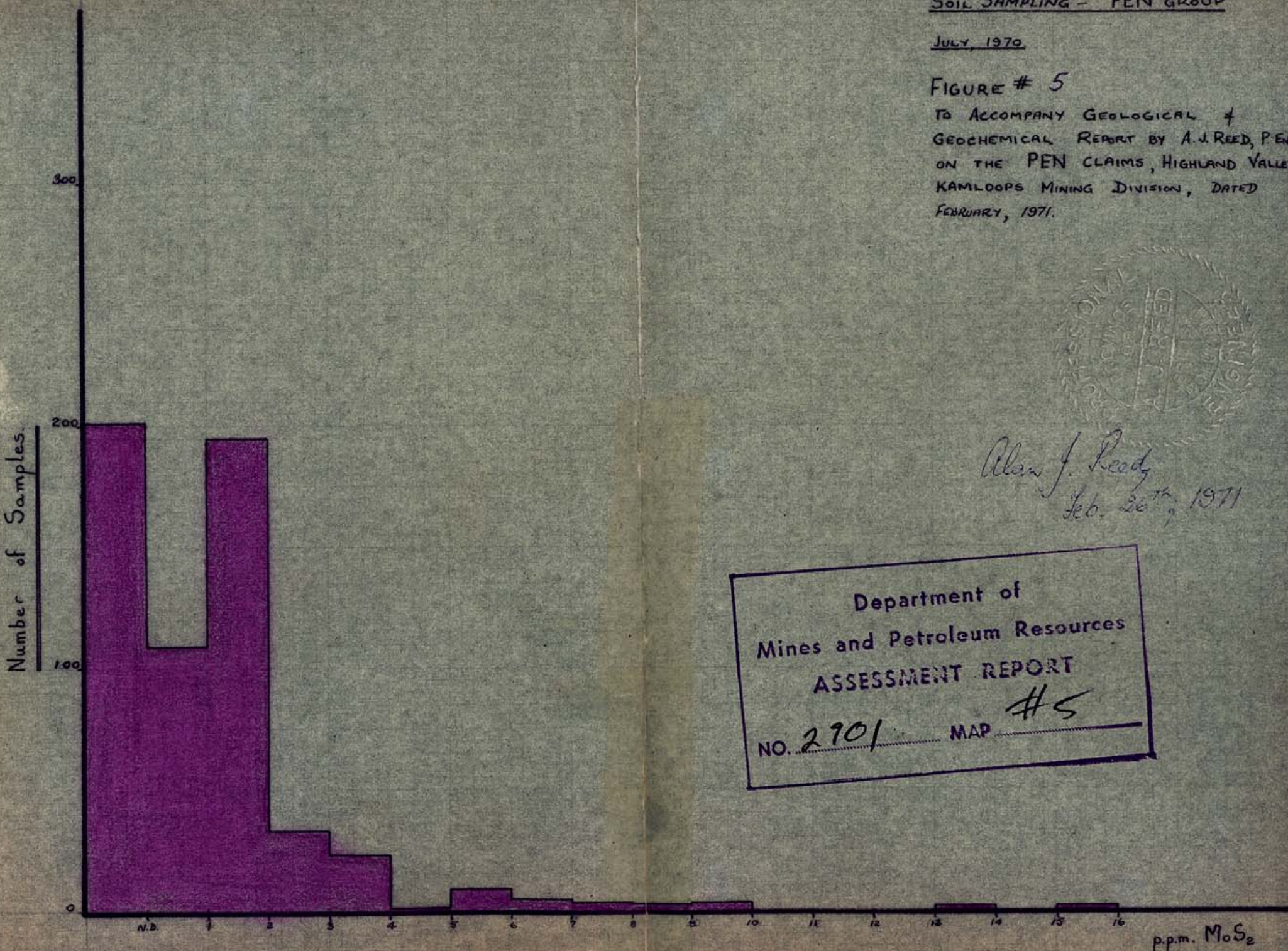
JULY, 1970

FIGURE # 5

TO ACCOMPANY GEOLOGICAL &
GEOCHEMICAL REPORT BY A.J. REED, P. ENG.
ON THE PEN CLAIMS, HIGHLAND VALLEY,
KAMLOOPS MINING DIVISION, DATED
FEBRUARY, 1971.

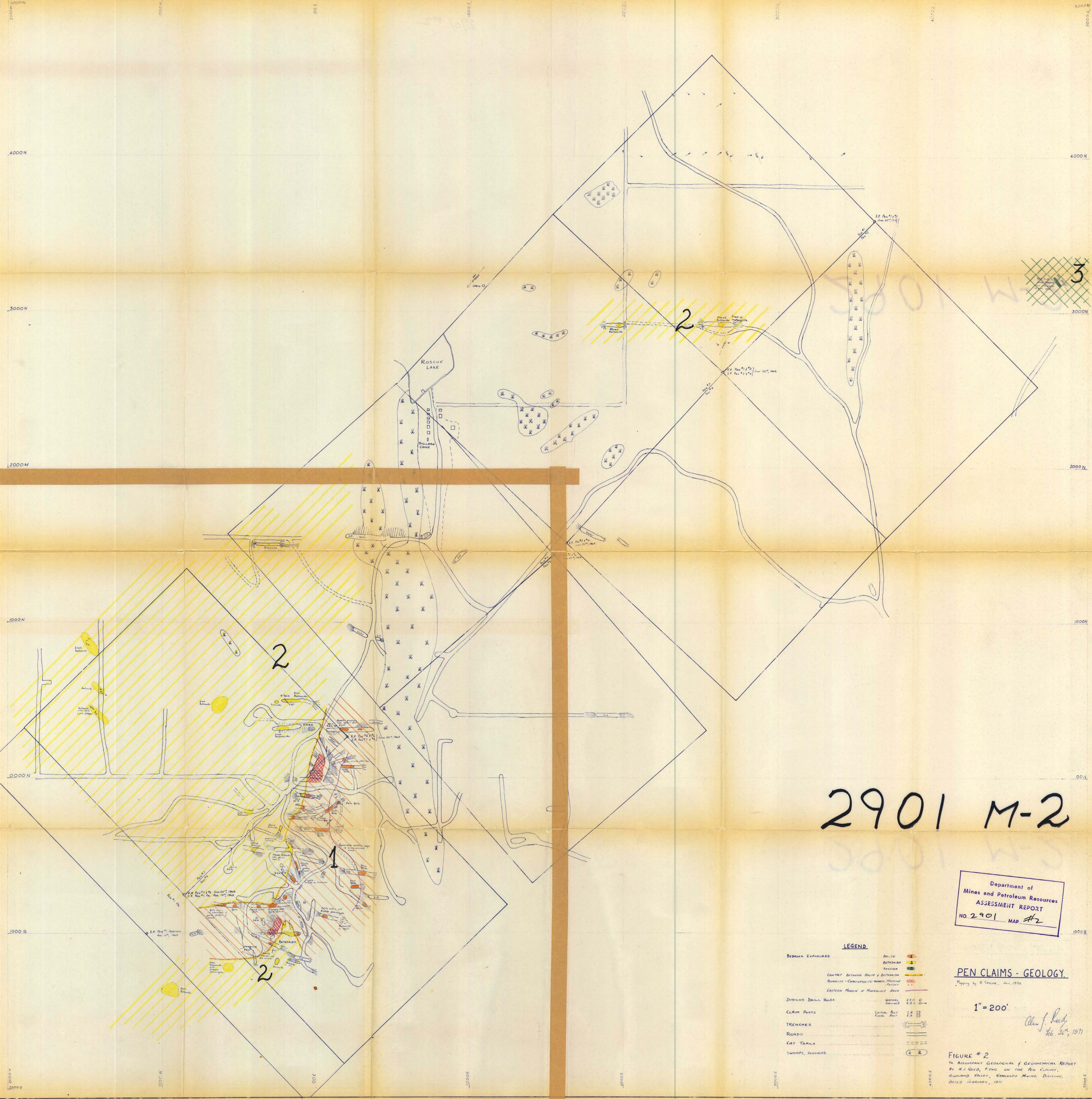


Alan J. Reed
Feb. 26th, 1971



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2701 MAP #5

pp.m. MoS₂



2901 M-2

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2901 MAP #2

- LEGEND**
- BEDROCK EXPOSURES:
 - APLITE: [Symbol]
 - BETHUNDA: [Symbol]
 - CONTACT BETWEEN ROUTE & BETHUNDA: [Symbol]
 - BETHUNDA - CARBONIFEROUS GNEISS: [Symbol]
 - EASTERN MARGIN OF METAMORPHIC BELT: [Symbol]
 - DIPLOMA DRILL HOLES: [Symbol]
 - CLAIM POSTS: [Symbol]
 - ROADS: [Symbol]
 - CAT TRAILS: [Symbol]
 - SWAMPS, SLOUGHS: [Symbol]
 - APLITE: [Symbol]
 - BETHUNDA: [Symbol]
 - CONTACT BETWEEN ROUTE & BETHUNDA: [Symbol]
 - BETHUNDA - CARBONIFEROUS GNEISS: [Symbol]
 - EASTERN MARGIN OF METAMORPHIC BELT: [Symbol]
 - DIPLOMA DRILL HOLES: [Symbol]
 - CLAIM POSTS: [Symbol]
 - ROADS: [Symbol]
 - CAT TRAILS: [Symbol]
 - SWAMPS, SLOUGHS: [Symbol]

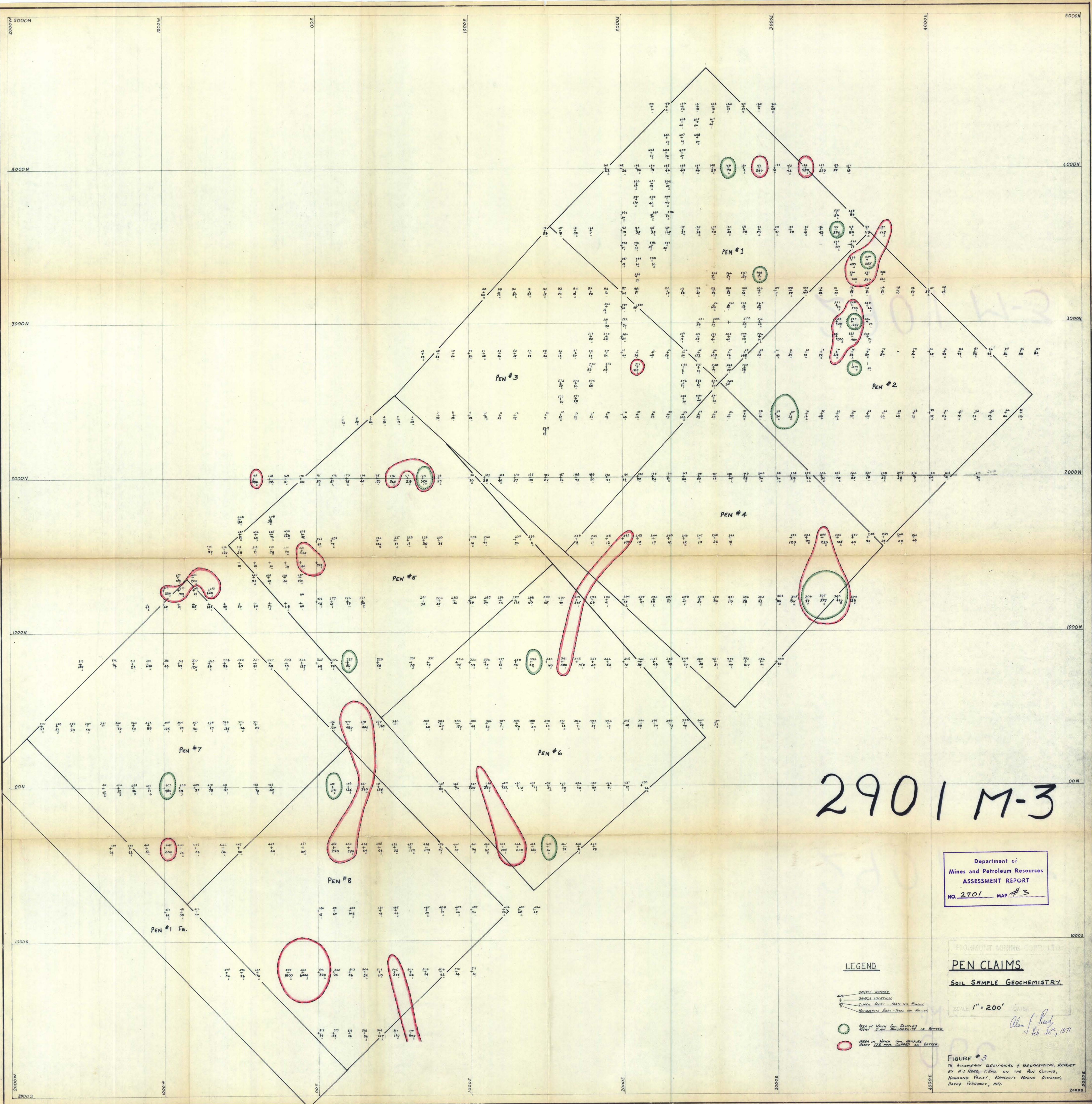
PEN CLAIMS - GEOLOGY.

Mapping by B. Tolson, June, 1970.

1" = 200'

Alan J. Reed
Feb 26, 1971

FIGURE #2
TO ACCOMPANY GEOLOGICAL & GEOMECHANICAL REPORT
BY A.J. REED, PENG ON THE PEN CLAIMS,
HIGHLAND VALLEY, KAMLOOPS MINING DIVISION,
DATED FEBRUARY, 1971



2901 M-3

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2901 MAP #3

LEGEND

- SAMPLE NUMBER
- SAMPLE LOCATION
- GULFER BEERY - PARTS PER MILLION
- MANGANESE BEERY - PARTS PER MILLION
- AREA IN WHICH SOIL SAMPLES SHOW 1% OR MORE COPPER OR BETTER
- AREA IN WHICH SOIL SAMPLES SHOW 1% OR MORE COBALT OR BETTER

HIGHLAND MINING CORP. LTD.
PEN CLAIMS
SOIL SAMPLE GEOCHEMISTRY
SCALE 1" = 200'

Alan J. Reed
Feb 26, 1971

FIGURE #3
TO ACCOMPANY GEOLOGICAL & GEOMETEORICAL REPORT
BY A.J. REED, P.E.G., ON THE PEN CLAIMS,
HIGHLAND VALLEY, KAMLOUP'S MINING DIVISION,
DATED FEBRUARY, 1971.