

# 2792

REPORT ON MINERAL EXPLORATION

(GEOLOGICAL AND MAGNETIC SURVEYS, TRENCHING)

LEASE M-49

OF

CUMONT MINES LIMITED (N.P.L.)

SIMILKAMEEN MINING DIVISION, B.C.

**Location:** Princeton Area  
Approximately 12 miles south of Princeton, B.C.

**Co-ordinates:** Lat. 49°20'N  
Long. 120°32'W

**Lease Owner:** Cumont Mines Limited (N.P.L.)  
550 Burrard Street  
Vancouver 1, B.C.

**Dates of Work:** May 17 to 27, 1970

**Reported by:** P.C.M. Roberts, P.Eng.  
Surveymin Limited  
25 Adelaide St. East  
Toronto, Ontario

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 2792 MAP

December 22, 1970

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## INTRODUCTION

During the period from May 17 to 27, 1970, a program of geological mapping, detailed magnetic surveys and trenching was conducted on the M-49 lease of Camont Mines Limited, located 12 miles south of Princeton, B.C., in the Similkameen Mining District. Mineral exploration was carried out by the personnel of Surveymin Limited under the direct supervision of P.C.M. Roberts, P.Eng.

This program was conducted primarily to determine the economic significance of geochemical and magnetic anomalies, and to evaluate several copper showings, indicated by previous surveys.

## SUMMARY AND RECOMMENDATIONS

Four trenches, of total length 1,950 feet, were bulldozed uncovering bedrock in each. A D-7E Caterpillar tractor rented from Tri-Valley Construction Ltd. of Princeton, B.C. was utilized. Detailed magnetic surveys were conducted on 5,400 feet of old and newly cut grid lines. Seven previously reported copper showings were geologically examined. Eleven samples were analyzed by Technical Service Laboratories, 325 Howe Street, Vancouver.

Nothing of economic interest was encountered in the trenches. The copper content of the showings is of low tenor, associated with narrow fractures, and erratic in distribution. The possibility of the presence of an economic deposit of magnetite is effectively nil. No further work is warranted for the immediate future with the possible exception of limited additional prospecting in the vicinity of the Similkameen River.

### THE PROPERTY

The M-49 lease, consisting of 5 lots (2016S, 2017S, 2048S, 2049S and 708) totalling 209.54 acres, is located 12 miles south of Princeton, B.C., and is within the Similkameen Mining District. A paved road leads from Princeton to the site of the old Granby Mine (now owned by the Similkameen Mining Company Limited), while an unpaved extension of this road leads to within a 1/8 mile of the north boundary of the M-49 lease; from this point a number of narrow but passable bush roads transect the lease area. The elevation of the east side of the lease is about 4,100 feet, at the Similkameen River it is 2,750 feet.

The lease, dated January 13, 1966, and requiring a yearly rental of \$105 and assessment work of \$840, is wholly owned by Cumont Mines Limited (N.P.L.), 550 Burrard Street, Vancouver, B.C.

### HISTORY

The M-49 lease area is located 1/4 mile south of the site of the former operating mine of the Granby Mining Co. Ltd. Underground and later shallow open-pit mining of copper were carried out intermittently from 1925 to 1956. In 1967 the property was sold to the Newmont Mining Corporation and subsequently assigned to the Similkameen Mining Company Limited. Up to 1944 the approximate production of metals was as follows: 138,000,000 pounds of copper, 36,000 ounces of gold, and 102,000 ounces of silver from 9,920,000 tons of mill feed.

Needless to say the M-49 area has been thoroughly prospected over the years. The most recent intense mineral exploration was conducted by Cumont Mines Limited in the 1966-1969 period when geological, geo-chemical and magnetic surveys, plus limited I.P. work on the east periphery was completed on grid lines of 200 foot separation. Certain features of

interest were further trenched during that period, but others remained to be evaluated.

#### MAGNETIC SURVEY

In the eastern sector of L2017 of M-49, 5,400 feet of chained and picketed grid lines of one hundred foot separation were traversed to examine in detail a strongly magnetically anomalous area (which continues into L2264 of M-39) which had previously been detected during the summer of 1966. Readings along the old and newly cut intervening lines were taken at 25 foot and 50 foot intervals, generally the former. Magnetic profiles were also established for each of the trenches. All readings were corrected for diurnal variations and to base. The instrument employed was a McPhar Model M-500 Fluxgate Magnetometer and errors are of the magnitude of  $\pm 20$  gammas. The survey was carried out by A. Willy with data reduction and interpretation by the writer.

The goals of this detailed survey were as follows:

- to determine if the magnetic anomaly reflected the presence of magnetite in sufficient amounts to be economic.
- to determine if sulphides were in any way associated with the magnetic minerals.
- to determine the relationship between the magnetic features and the biotite syenogabbro-syenodiorite contact.

Magnetic relief in the detail survey area is 22,500 gammas; the high is +13,900 and the low is -8600. The magnetic contours (see Map No. 5) in the northern part of the detail survey area trend east-south-east, to the south the pattern is less defined but the orientation is generally similar. In any case the trend is opposed to the gradational contact between the syenogabbro and syenodiorite. Trenching has established that the magnetite content is essentially controlled by structural features

paralleling the contours rather than the lithologic contacts. Also there appears to be no correlation, either in the survey area or in the other trenches, between magnetic intensity and sulphide content, the latter being very minor and erratic. The magnetic anomalies are due almost entirely to contained magnetite but the magnetic survey and the trenching have emphatically illustrated that the magnetic bodies, apparently banded, are too small to be of economic interest. Widths up to 100 feet were encountered but lengths did not exceed 350 feet; maximum magnetite content averaged 15% but the distribution was very erratic requiring much more detailed evaluation.

Magnetic highs on the profiles on trenches 1 and 2 in the detail survey area were much higher than those on trenches 3 and 4 to the south. As mentioned above there is little or not magnetite correlation with sulphide content; however there is a distinct negative correlation with mylonitization and shatter zones.

## GEOLOGY

### a) GENERAL AND PROPERTY GEOLOGY

The M-49 lease area lies within the Copper Mountain stock, a Jurassic or later intrusion into the Upper Triassic volcanics of the Nicola Group. For details of this differentiated intrusive and its environment and genesis, the reader is requested to refer to Memoir 243 of the G.S.C. "Geology and Mineral Deposits of the Princeton Map-Area, British Columbia" by H.M.A. Rice, 1960.

Mapping in 1966 by Cumont Mines Limited delineated a contact between a biotite syenogabbro and a syenodiorite on the east periphery of the M-49 area and a contact between the syenodiorite and syenite pegmatite low in the valley of the Similkameen River to the west. Geological mapping

of this year's trenches and outcrops in their immediate vicinities firmly established that the eastern contact is generally very gradational and erratic. Rock geochemistry would be necessary to accurately delineate this contact, which in itself appears of dubious economic importance. For this reason its position as shown on Map No. 5 has not been altered.

## 2) GEOLOGY OF COPPER OCCURRENCES

Seven copper showings located in the western sector of the lease area were examined by our geologists. This area illustrates a broad zoning in rock composition and grain size, with grain size increasing to the west. Proceeding westerly the rocks also become more acidic, while lacking in free quartz, and manifest diminishing magnetite content.

K-Feldspar porphyry dikes become more numerous and larger to the west and are undoubtedly genetically related to the major syenite pegmatite mass located along the Similkameen River. Copper mineralization, chalcopyrite and its alteration product malachite, is invariably confined within these dikes. The mineralization specifically occurs in very thin fractures of short length generally trending east-west and dipping steeply to the north. The chalcopyrite content and distribution render these occurrences of negligible economic importance although they do suggest that the apparent source, the syenite pegmatite, may warrant further attention. The highest grade sample of all the showings came from a pronounced cliff face on the base line at L82W; it was assayed by Technical Service Laboratories of Vancouver and returned an assay of 0.35% copper and 0.03 oz/ton gold.

c) GEOLOGY OF TRENCHES

Four trenches, totalling 1,950 feet, were dug with a D-7E Caterpillar tractor rented from Tri-Valley Construction Ltd. of Princeton. Bedrock was reached in all trenches with trench depth varying from 1 foot to 10 feet. Trenches 1 to 3 were designed to test geophysical anomalies, trench 4 to test a geochemically anomalous zone in the vicinity of the syenogabbro-syenodiorite contact.

1) Trench No. 1

This trench, as with trench 2, was designed to examine a highly magnetically anomalous area and transect at its northern limit a major geological contact.

The rocks, exposed in trench 1 are essentially of syenodioritic composition; south of 19N ferromagnesian minerals are more predominant. North of 19N, the rocks are heavily shattered and manifest three major joint sets - 135/70E, 130/80SW and 045/60-75NW. Where those joints are well-pronounced and intersect, highly crushed mylonitized zones, yielding a high biotite content, occur.

K-Feldspar porphyry dikes, 1/2" to 6" wide, occupy some of the north-east trending joints. At 18+70N a grab sample of one of these narrow dikes assayed 1625 p.p.m. copper. Seven other samples along the trench were also assayed for copper and nickel with unencouraging results. Sulphide content of the exposed rocks is negligible.

2) Trench No. 2

The general composition of the exposed rocks is syenogabbroic.



Biotite and magnetite in high concentration are frequently encountered. From 18+90N to 20+50N, minor shearing was observed. At the south edge of this zone, chloritic alteration and epidotization of the country rock were noted over a width of 10 feet; this altered band trends easterly. At 20N, a well-defined "en-echelon" structure, cutting thin X-Feldspar dikes within fractures oriented 050/60SE, was mapped. A 10 foot mylonitized zone was observed at 20+20N. No sulphide was observed over the entire length of the trench or were samples taken for assay.

3) Trench No. 3

This 450 foot trench transected a north-south magnetic anomaly of moderate relief. Deep overburden (10 feet plus) within the centre of the trench prevented penetration of the bedrock there; at both ends of the trench massive syenodiorite, with medium to coarse grained biotite flakes and minor magnetite, was unearthed. At 3+95S, a 5 foot mylonite zone is discernable. Specks of disseminated pyrite were observed at one locale; assays for copper and nickel were effectively nil.

4) Trench No. 4

This trench was dug in an area of moderate to high soil anomalies in copper in the vicinity of the syenogabbro-syenodiorite contact. The contact was observed within the trench and appears here considerably more pronounced than in the other trenches. At 0+50S, a 10 foot wide, east-trending mylonite zone was noted; no visible sulphides were observed and assays for copper and nickel immediately to the south were effectively negative. No sulphides were observed within the remainder of the trench.

CONCLUSIONS

Nothing of immediate economic importance was uncovered by this summer's program of mineral exploration on the M-49 lease. However the ground should be retained for the following reasons:

- the syenite pegmatite in the west warrants further investigations.
- the lease has a very important strategic value.
- the Nicola volcanics to the north, which are the host rocks for the Ingerbelle and old Granby deposits, may quite likely extend underneath the intrusives mapped at surface on the M-49 lease.

Respectfully submitted,



P. C. M. Roberts, M.Sc.(Applied), M.B.A., P.Eng.  
General Manager  
Surveymin Limited

Toronto, Ontario  
December 22, 1970

PERSONNEL INVOLVED IN EXPLORATION PROGRAM

ON THE M-49 LEASE

OF CUMONT MINES LIMITED (N. P. L.)

MAY 17 to 27, 1970

P. C. M. Roberts, 111 Roxborough Street West, Toronto, Ontario	- Geologist
P. Dumont, 3550 Ed. Montpetit, Montreal, Quebec	- Geologist
M. Boucher, 771 Ste. Melanie, Co. Joliette, Quebec	- Geologist
A. Willy, 628 First Avenue N.E., Saskatoon, Saskatchewan	- Geology Student
J. A. Harquail, 42 Glenallan Road, Toronto, Ontario	- Consulting Engineer

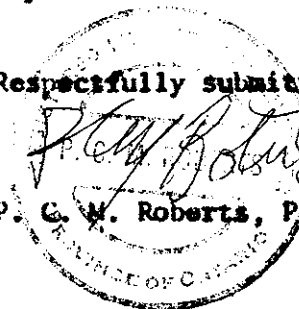
C E R T I F I C A T E

I, P. C. M. Roberts, residing at 111 Roxborough Street West, Toronto, Ontario, do hereby certify:

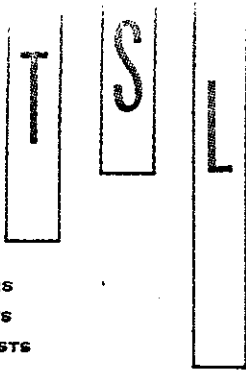
- 1) That I am an Engineer and Geologist, and General Manager of Surveymin Limited, a firm of Mineral Industry Consultants, with offices at 25 Adelaide Street East, Toronto, Ontario.
  
- 2) That I am a graduate of McMaster University, Hamilton, Ontario, where I received a B.A. (Geology) in 1960, a graduate of McGill University, Montreal, Quebec, where I received a M.Sc. (Applied) (Mineral Exploration), in 1962, and a graduate of the University of Toronto, Toronto, Ontario, where I received an M.B.A. (Business Administration) in 1970.
  
- 3) That I am a registered Professional Engineer (Mining) in the Province of Ontario, a Member of the Engineering Institute of Canada, and a Fellow of the Geological Association of Canada.
  
- 4) That during the period 1960 to 1969 I was employed as an exploration geologist for various mining exploration and consulting firms throughout Canada as well as Ireland and South America.
  
- 5) That I personally planned and supervised in the field the exploration work completed on the M-49 lease of Cumont Mines Limited (N. P. L.) near Princeton, B.C. I was in the field on this project continuously from May 17 to 27, 1970.
  
- 6) That I do not have nor do I expect to receive any interest, direct or indirect, in these properties or the securities of Cumont Mines Limited (N. P. L.).

Respectfully submitted,

  
P. C. M. Roberts, P. Eng.



Toronto, Ontario  
December 22, 1970



ASSAYERS  
CHEMISTS  
GEOCHEMISTS

Appendix II

# Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM SURVEYMIN LIMITED.

REPORT NO.

RECEIVED JUL - 8 1970

V-7481

SAMPLE(S) OF ROCK GEOCHEM

Sample No.	Gold (Au) ppm	Copper (Cu) ppm	Chromium (Cr) ppm	Nickel (Ni) ppm
12-49 { Cumont 49-70-1-1	----	260	----	39
Cumont 49-70-1-2	----	89	----	43
Cumont 49-70-1-3	----	40	----	32
Cumont 49-70-1-4	----	88	----	9
Cumont 49-70-1-5	----	33	----	26
Cumont 49-70-1-6	----	30	----	21
Cumont 49-70-3-1	----	34	----	20
Cumont 49-70-4-1	----	57	----	15
CD-6	.3	----	----	----
CD-6b	----	18	77	45
CD-7	----	18	20	17
CD-8	----	----	----	----
CD-9	.1	----	----	----
CD-10	----	170	----	----
CD-12	----	590	107	17
CD-13	----	50	< 5	40
CD-14	----	3400	< 5	75
CD-15	----	1300	< 5	77
CD-16	----	165	< 5	48
CD-18	----	1350	< 5	96
CD-20	.3	825	< 5	118

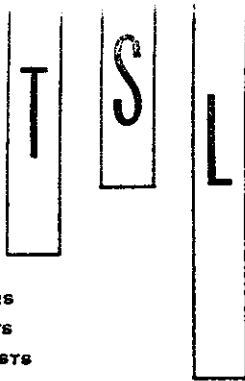
ppm - Parts Per Million.

DATE July 2, 1970.

SIGNED 

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

DIVISION OF TECHNICAL SERVICE LABORATORIES



# 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

SAMPLE(S) FROM *MR. M. Roberts*

REPORT NO.  
*V-7455-01*

SAMPLE(S) OF *Rock for geochem. analysis*

RESULTS IN PARTS PER MILLION

	SAMPLE No	Al <sub>2</sub> O <sub>3</sub>	Cu	Pb	Zn	Ag	Ni	Mo	Cr
1	✓ AB-1	<.3	—				—		—
2	✓ -2	<.3	5				31		19
3	✓ -3	<.3	6				4		<5
4	✓ -4	<.3	1600				11		15
5	✓ -5	<.3	1260				3		5
6	✓ -6	<.3	29				12		—
7	✓ AB-7	<.3	103				13		45
8	✓ AD-1	<.3	3				5	✓	16
9	✓ -2	<.3	4				12		15
0	✓ -3	<.3	44				4		<5
1	✓ AD-4	<.3	21				—		—
2	✓ BD-1	<.3	2				4		<5
3	✓ BD-2	<.3	76				3		5
4	✓ CB-1	<.3	2				4		31
5	✓ CD-1	<.3	—				—		—
6	✓ -2	<.3	—				—		—
7	✓ -3	<.3	—				—		—
8	CD-4	<.3	24				—		125
9	CD-5	<.3	19				175		—
0	→ Cement 39-70-1-7	<.3	1625				—		—

*M-49 Lease*

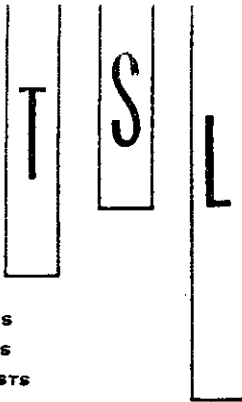
DATE

*June 16, 1970*

SIGNED

N.B. Samples discarded after 3 months unless otherwise requested.





# 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

SAMPLE(S) FROM *MR. M. Roberts*

REPORT NO.  
*V-7455-02*

SAMPLE(S) OF *Rocks for geochem.*

RESULTS IN PARTS PER MILLION

	SAMPLE No	Hg	Cu	Pb	Zn	Ag	Ni	Mo	Ca
21	<i>Quartz 39 70-1-5</i>	<i>—</i>	<i>10</i>				<i>10</i>		<i>16</i>
2	<i>M-49 lease</i>								
3									
4									
5									
6	<i>As, Ag, Cu, Ni, Cr - HOT DOME REGIA EXTRACTION</i>								
7	<i>Determined by A.A.</i>								
8									
9									
0									
1									
2									
3									
4									
5									
6									
7									
8									
9									
0									

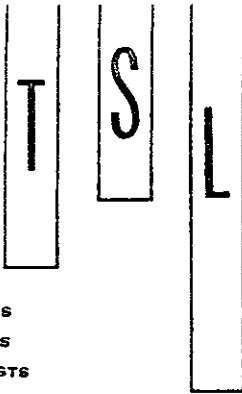
DATE

*June 16, 1970*

SIGNED

N.B. Samples discarded after 3 months unless otherwise requested.





# 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

SAMPLE(S) FROM *MR. M. Roberts*

REPORT NO.  
*V-7455-01.*

SAMPLE(S) OF *ROCK FOR GEOCHEM. ANALYSIS*

RESULTS IN PARTS PER MILLION

	SAMPLE No	Cu	Pb	Zn	Ag	Ni	Mo	Cd
1	✓ AB-1					4		11
2	✓ AB-6							45
3	✓ AD-4					3		18
4	✓ CD-1	800				51		25
5	✓ -2	67				5		9
6	✓ -3	5000				52		94
7	✓ -4					81		
8	✓ CD-5							45
9	→ <del>CUMONT 39,70-7</del>					9		2
0	<i>M-49 Lease</i>							
1								
2								
3								
4								
5								
6								
7								
8								
9								
0								

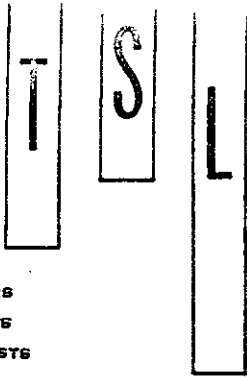
DATE \_\_\_\_\_

SIGNED 

N.B. Samples discarded after 3 months unless otherwise requested.







ASSAYERS  
CHEMISTS  
GEOCHEMISTS

# Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEPHONE 688-3504

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM SURVEYMIN LIMITED  
cc/Mr. P.C.M. Roberts

REPORT NO.

V-7806

SAMPLE(S) OF ROCK

RECEIVED JUL - 2 1970

Sample No.	Gold (Au) oz:ton	Copper (Cu) %
M-49 LBZW, BL. Loose	0.03	0.35

oz:ton - Troy ounces per 2,000 lbs.

DATE June 29, 1970.

SIGNED 

PULP AND REJECTS DISCARDED AFTER 3 MONTHS

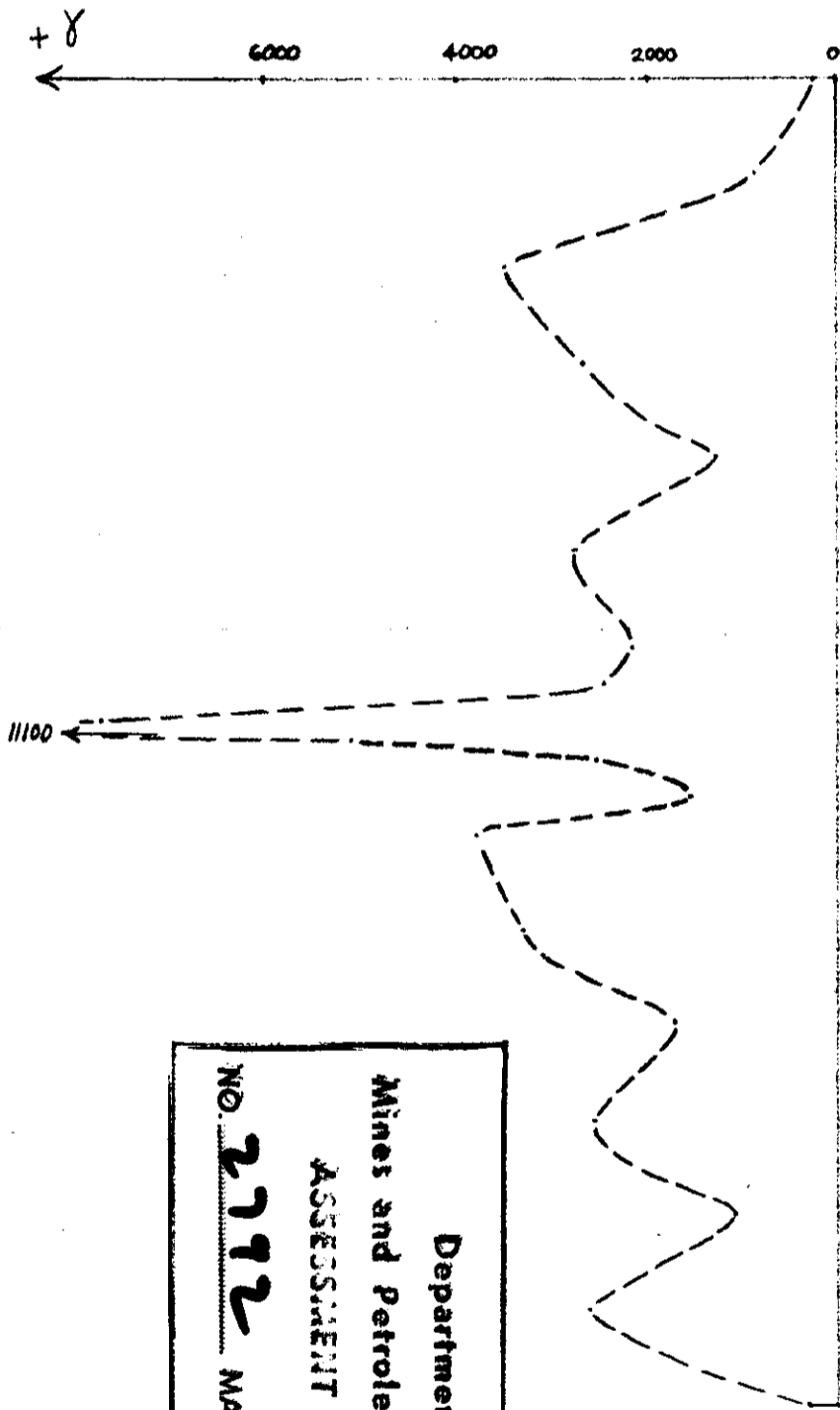
DIVISION OF TECHNICAL SERVICE LABORATORIES

10

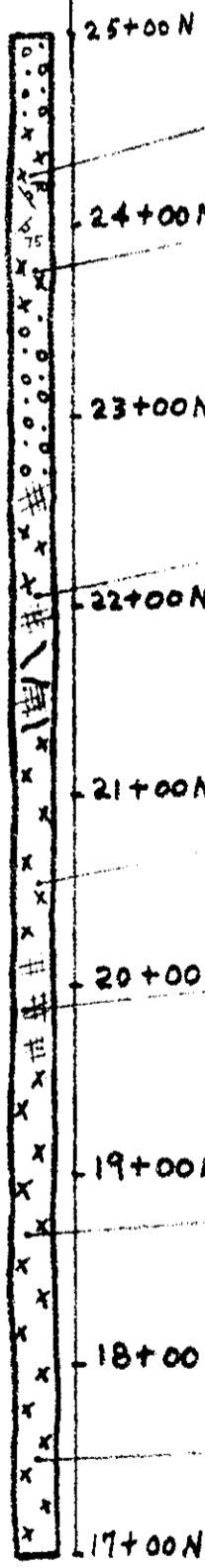
# TRENCH #1

magnetic profile

Geology



L-72+00 W



Station	Sample ID	Cu (ppm)	Ni (ppm)	Cr (ppm)	Au (ppm)
25+00N	S-70-1-1	260	39		
24+00N	S-70-1-2	89	43		
23+00N					
22+00N	S-70-1-3	40	32		
	S-70-1-4	88	9		
21+00N	S-70-1-5	33	26		
20+00N	S-70-1-6	30	21		
19+00N	S-70-1-7	1625	9	29	4.3
18+00N	S-70-1-8	10	10	12	

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2792 MAP 1



- LEGEND:
- SYENO-DIORITE
  - OVERBURDEN
  - SHATTERING
  - POTASSIC FELDSPAR DYKE
  - JOINTS

## TRENCH No. 1

CUMONT MINES LIMITED  
M-49 Lease

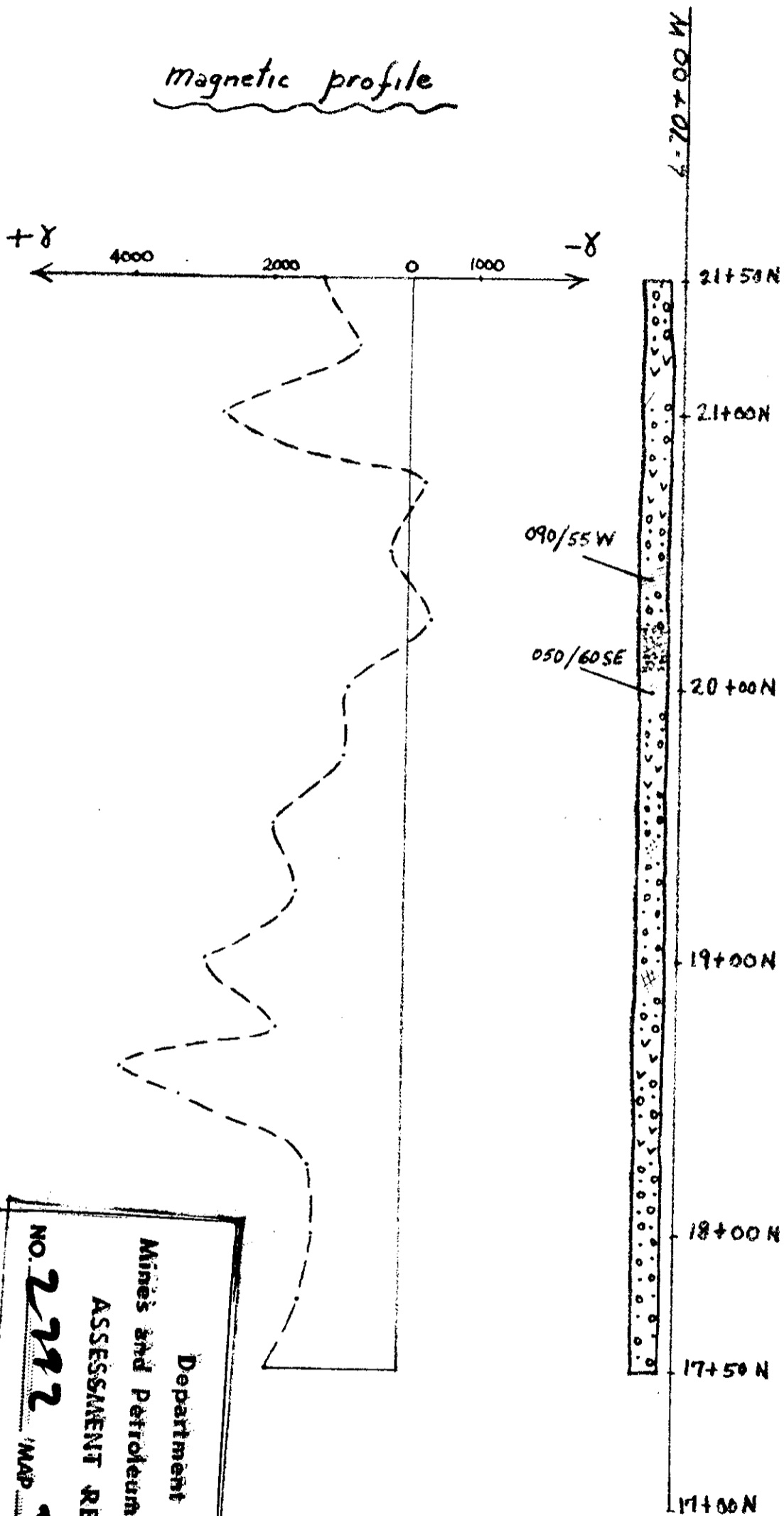
Map No 1

mapped by Pierre Dumont B.Sc  
Drawn by M.A. Baucher B.Sc  
June 1970

TRENCH # 2

Geology

magnetic profile



TRENCH No. 2

SCALE: 0 50 100 feet

- LEGEND:
- OVERBURDEN
  - BIOTIFEROUS SYENO GABBRO
  - SHATTERING
  - MYLONITE
  - "EN ECHELON" STRUCTURE
  - SHEARING

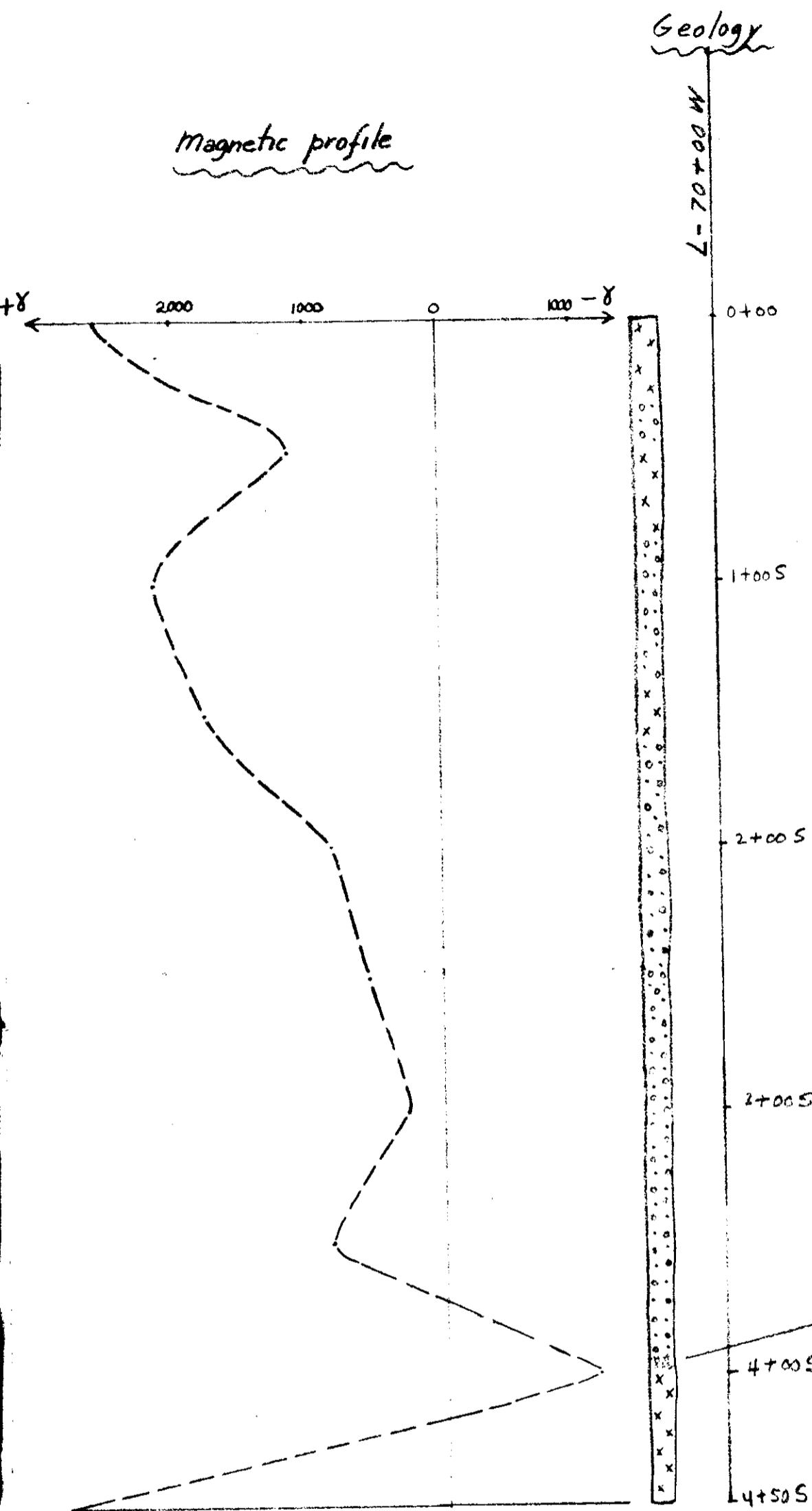
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2292 MAP #2

CUMONT MINES LIMITED  
 M-49 Lease

Map No. 2

Mapped by Pierre Dumont B. Sc.  
 Drawn by M.A. Boucher

TRENCH #3



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2772 MAP 3

TRENCH No 3

SCALE : 0 50 100 feet

LEGEND: 

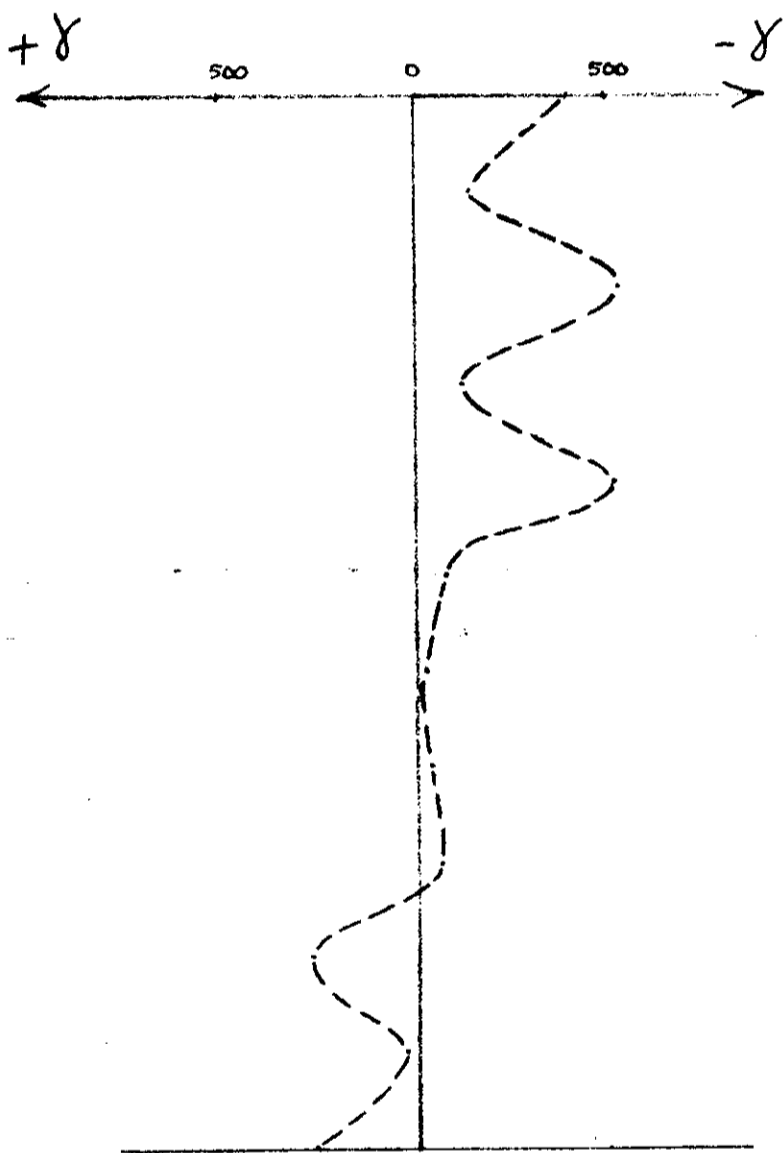
<span style="border: 1px solid black; padding: 2px;">X X X</span>	SYENO-DIORITE
<span style="border: 1px solid black; padding: 2px;">o o o</span>	OVERBURDEN
<span style="border: 1px solid black; padding: 2px;">~ ~ ~</span>	MYLONITE

CUMONT MINES LIMITED  
M-49 Lease  
Map No 3

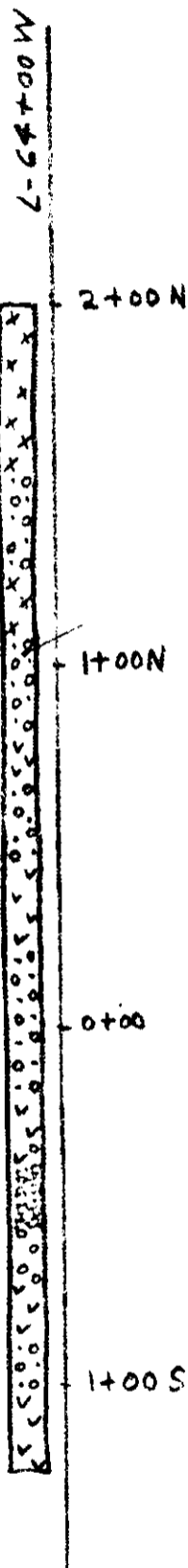
Mapped by Pierre Dumont B.Sc.  
Drawn by M.A. Boucher B.Sc.  
June 1970

TRENCH #4

Magnetic profile

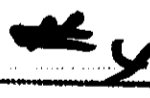


Geology

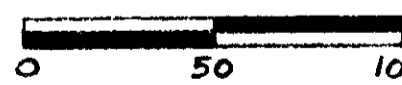


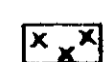



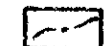
S-70-4-1 Cu 57 ppm  
 Ni 15 ppm



Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2792 MAP 

TRENCH No. 4

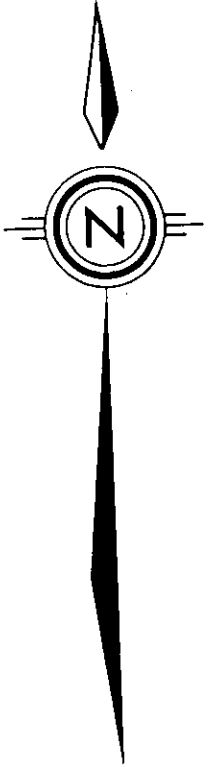
SCALE:  0 50 100 feet

- LEGEND:
-  SYENO - DIORITE
  -  BIOTIFEROUS SYENO - GABBRO
  -  OVERBURDEN
  -  MYLONITE
  -  CONTACT ASSUMED

CUMONT MINES LIMITED

Map No. 4

Mapped by Michel A. Boucher  
 Drawn by Michel A. Boucher  
 June 1970



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2792 MAP *ds*

**CUMONT MINES LIMITED**

LEASE M-49      MAP 5      PRINCETON AREA B.C.

**GENERAL GEOLOGY,  
MAGNETICS, TRENCHING**

TO ACCOMPANY REPORT BY P.C.M. ROBERTS, P. Eng.

PROJECT MANAGEMENT BY:	DRAWN: J.A. BELBIN	DATE: 22 DEC 1970
SURVEYMIN LIMITED	REVISED:	DRAWING: 70 / 262
550 BURNARD STREET, VANCOUVER, B.C.	FILE:	SCALE: 1" = 400'
	N.T.S. REFERENCE:	92 - H - S.E.

- LEGEND**
- Tr Trench, 1970
  - Trench, pre-1970
  - Grid line, 1970
  - Grid line, pre-1970
  - Bush road
  - Approximate location of gradational contact
  - I.P. Induced Polarization Survey anomaly
  - X Cpy Copper occurrence
  - High copper anomaly
  - Moderate copper anomaly Soil Survey
  - Low copper anomaly
  - Cumont Mines Limited, Lease M-49, (5 claims)
  - Property not owned by Cumont Mines Limited
- A Biotite Syenogabbro  
B Syenodiorite  
C Syenite Pegmatite

2792 M-5

