

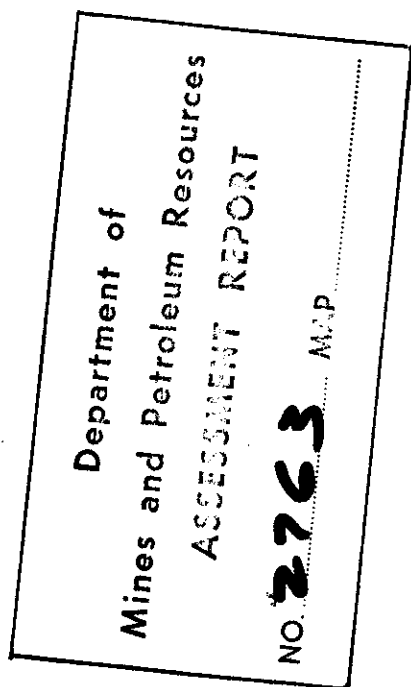
# 2763

GEOCHEMICAL AND GEOPHYSICAL REPORT

ON THE CO 1 - 22 CLAIMS

Located on Lawless Creek  
49<sup>o</sup>, 120<sup>o</sup> N. E.

Similkameen M. D.



by

J. H. Montgomery, Ph. D., P. Eng.

Work done between June 30, 1969 and August 30, 1969

July 15, 1970.

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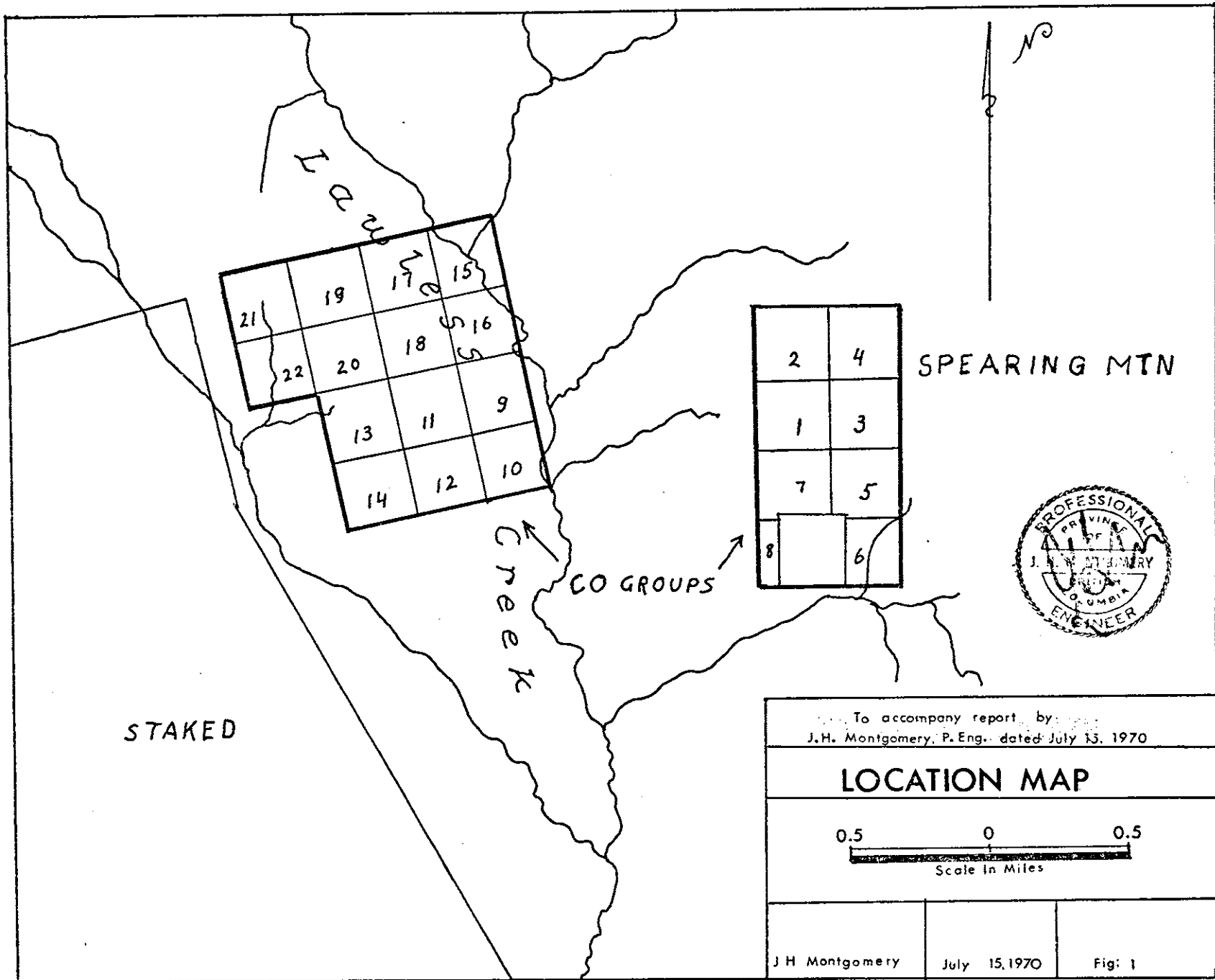
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## INTRODUCTION

The following report is a record of the work done on the CO claims during the months of July and August 1969.

## LOCATION AND ACCESS

The property is located on both sides of Lawless Creek at Long.  $120^{\circ} 53'$  and Lat.  $49^{\circ} 37'$ . Access is excellent from Tulameen (4 mile drive). ?



21	19	17	15
22	20	18	16
13	11		9
14	12		10

2	4
1	3
7	5
8	6



To accompany report by  
 J.H. Montgomery, P. Eng. dated July 13, 1970

**LOCATION MAP**

0.5      0      0.5  
 Scale in Miles

J H Montgomery	July 15, 1970	Fig: 1
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STATEMENT OF COST

<u>Name</u>	<u>No. of Days</u>					
Victor Mukans	40	6/30 - 8/1	\$25/day	Party Chief	\$ 1,000	
		8/20 - 8/30		Mag. Operator		
Gregory Bowes	40	6/30 - 8/1, 8/20 - 8/30	20/day	Geochem Sampler	800	
Curt Hallwood	40	6/30 - 8/1, 8/20 - 8/30	20/day	Geochem	800	
J. H. Montgomery	4	7/4, 5; 8/2, 3	50/day	Geological Engineer	200	

Food 120 man days @ \$7.00 840

Geochemical Analyses 500 soil samples @ \$2.00 1,000

Biogeochemical Analyses 500 tree samples @ \$4.00 2,000

\$ 6,640

Declared before me at the City  
of Nanaimo, in the  
Province of British Columbia, this 8<sup>th</sup>  
day of October 1970, A.D.

*J. H. Montgomery*

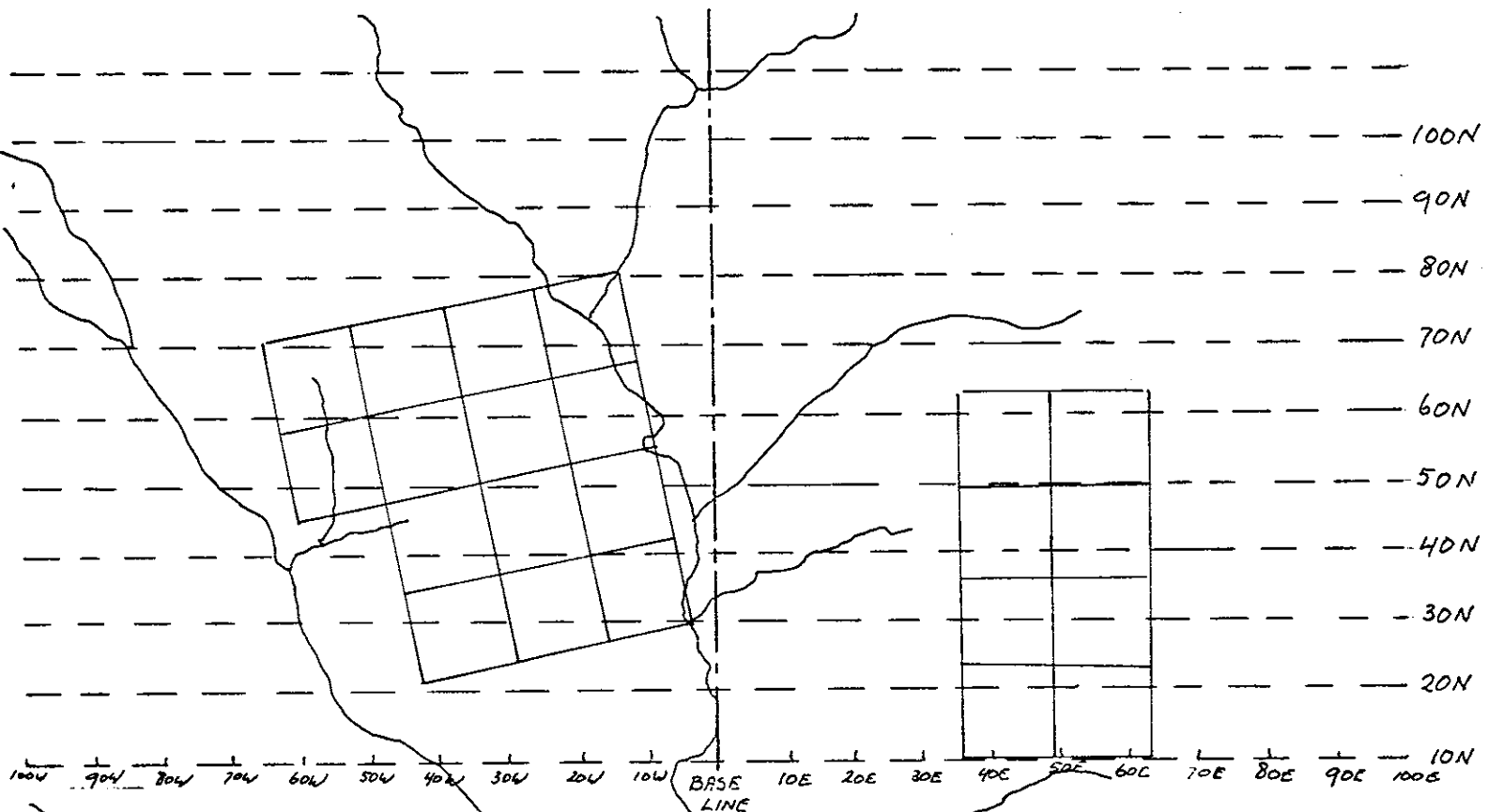
*G. P. Phillips*

A Commissioner of the Province of British Columbia or  
A Notary Public in and for the Province of British Columbia.

PROPERTY AND OWNERSHIP

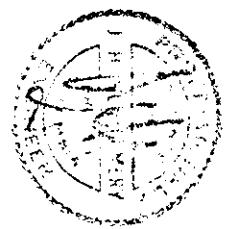
<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>
CO 1 - 8	25153 - 60	June 30, 1969
CO 9 - 22	25379 - 92	July 18, 1970

All claims are owned by J. H. Montgomery



Plan Showing Relation  
of Grid to Claims  
CO Claims

To accompany Report by  
J.H. Montgomery Dated July 15, 1970



Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2763 MAP #2

Scale 1" = 1/2 MILE

R.V. JULY 15, 1970

N

5

QUALIFICATIONS OF OPERATORS

Party Chief Victor Mukans has over 15 years experience in various aspects of mining exploration. He has worked for the author since 1967 and is thoroughly experienced in conducting magnetometer and geochemical surveys.

Gregory Bowes and Curt Hallwood, both students, were trained to take soil and tree samples prior to their employment on the CO claims and worked under the supervision of Mukans or the author.



MAGNETIC SURVEY

Instrument: Jalander Fluxgate.

Field Procedure :

Readings were taken on all grid lines, at a spacing of 200 feet. Traverses were closed each day to allow for adjustment of diurnal variation.

Interpretation of Results:

Four distinct anomalies are indicated. (See Figure 2.)

Anomaly A at 40 N/52-62 W. It has an amplitude of about 2000 gammas and an areal extent of about 1000 feet by 1000 feet. No outcrop was present in Anomaly A but the amplitude is similar to that observed over rock type changes in the general area.

Anomaly B is located at 30 N/30-36 W. It has an amplitude of about 4500 gammas. It is believed to be caused by magnetite bearing gneiss.

Anomaly C, which is located at 50 N/16-20 W and Anomaly D, 90 N/70-74 W are similar in nature to Anomaly B.

Anomaly E, located at 10 N/84 E was checked in more detail (see figure 2) but no significant patterns emerged.

In general, none of the anomalies is believed to be associated with economic mineralization.

Copper: Most values fall in the regional background range, i. e., less than 100 ppm. A few scattered samples show a little more than 100 ppm, but these erratic results are considered insignificant.

Zinc: All values fall in the extremely low background range (mostly less than 100 ppm).

Molybdenum: The majority of the values are less than 8 ppm. Some erratic samples, i. e., at 30 N, 44 W (66 ppm); 20 N, 60 W (45 ppm) and 30 N, 104 W (16 ppm) are believed to be caused by glacial float.

No anomalies are indicated.

## BIOGEOCHEMICAL SURVEY

### a) Field Procedure

Second year growth Douglas Fir was collected on all lines every 400 feet where possible. The sample was put in a brown paper bag and notes were kept regarding location and size of tree.

### b) Analytical Procedures

The samples are air dried for about 2 weeks and subsequently ashed in an oven at a low temperature to prevent any metal loss through evaporation. After ashing, analysis proceeds as in soil samples.

Biogeochemical Survey (cont'd.)

c) Interpretation of Results

Copper: Most values fall in normal background. A slightly higher (330 ppm) sample at 10 N, 60 E conforms to a similar erratic result in the soil at the same station.

Zinc: Fluctuations in zinc content are normal, i. e., between 500 - 3000 ppm.

Molybdenum: Background is extremely low, i. e., not detected in most samples. Some higher results in the 3 - 6 ppm range occur at 30 N, 60 E; 40 N, 52 E; 50 N, 42 E; 60 N, 22 W. No correlation exists in the soil at those stations.

No anomalies are indicated.

GEOLOGY

The area is underlain mainly by volcanic and metamorphic rocks of the Nicola Group. These are andesites, basalt, schist and gneiss. On the eastern part of the map area, a large number of dykes and other small bodies of pink granite and rhyolite have intruded the Nicola rocks.

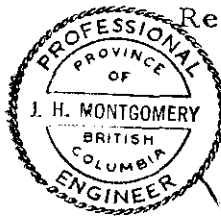
A little copper mineralization was found at 30 N, 52 E. Here chalcopyrite occurs in small quartz stringers in greenstone. Similar float was also found at 10 N, 60 W.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic survey produced four anomalies, believed to be caused by changes in rock type. The geochemical and bio-geochemical surveys did not indicate any anomalies, even though some copper mineralization was found on the ground in two locations.

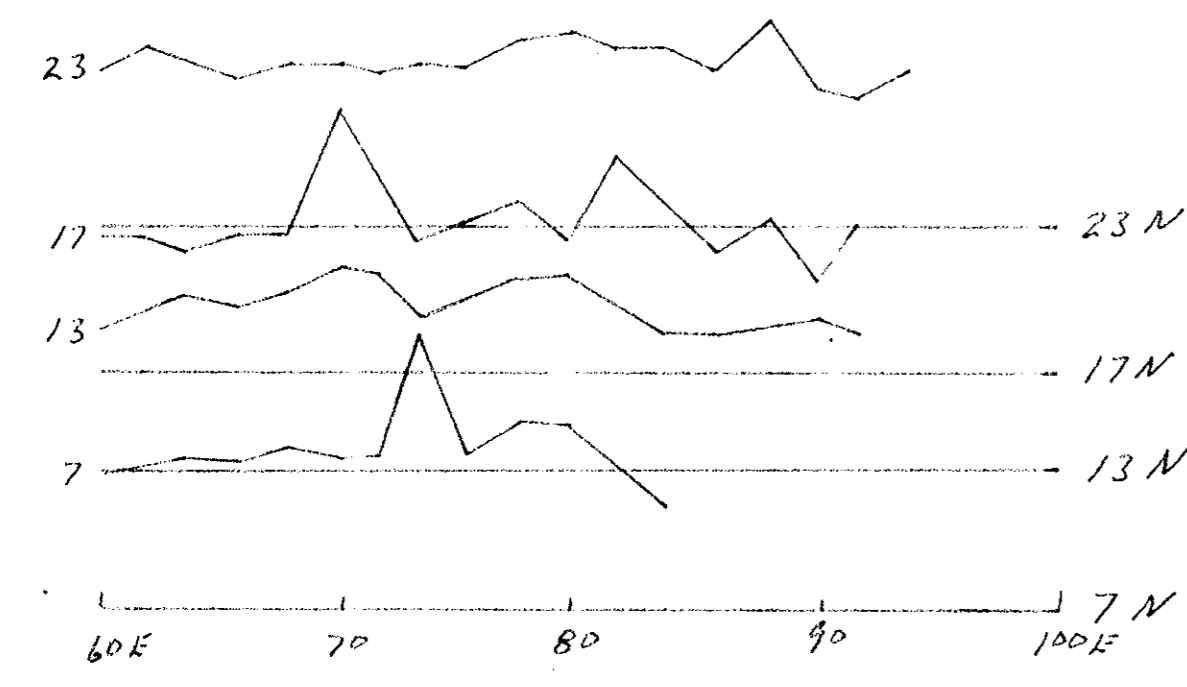
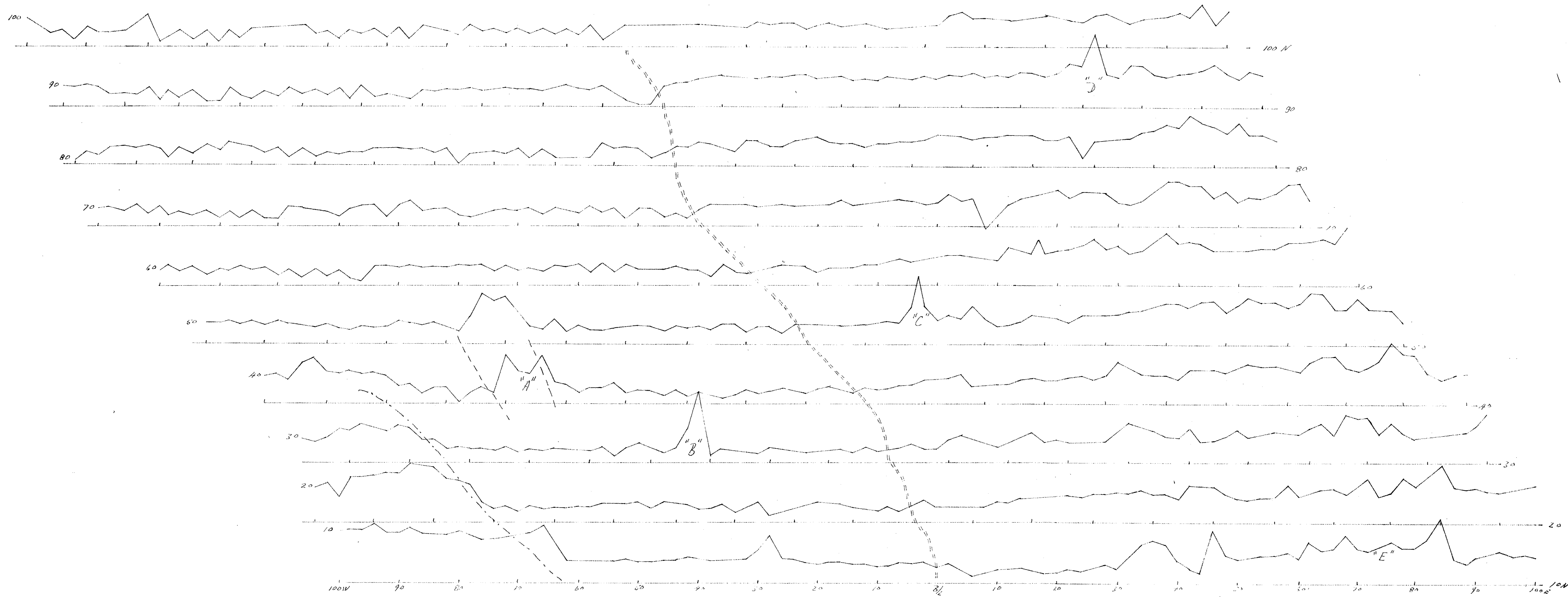
No further work recommended.

Respectfully submitted,



*J. H. Montgomery*  
J. H. Montgomery, P. Eng.

July 15, 1970.



Anomaly "E" Detail

Vertical Scale: 1" = 4000γ

2763 M-3

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO 2763 MAP #3

Professional Engineer  
J.H. MONTGOMERY

To accompany report by J.H. Montgomery, P.Eng.  
dated July 15, 1970.

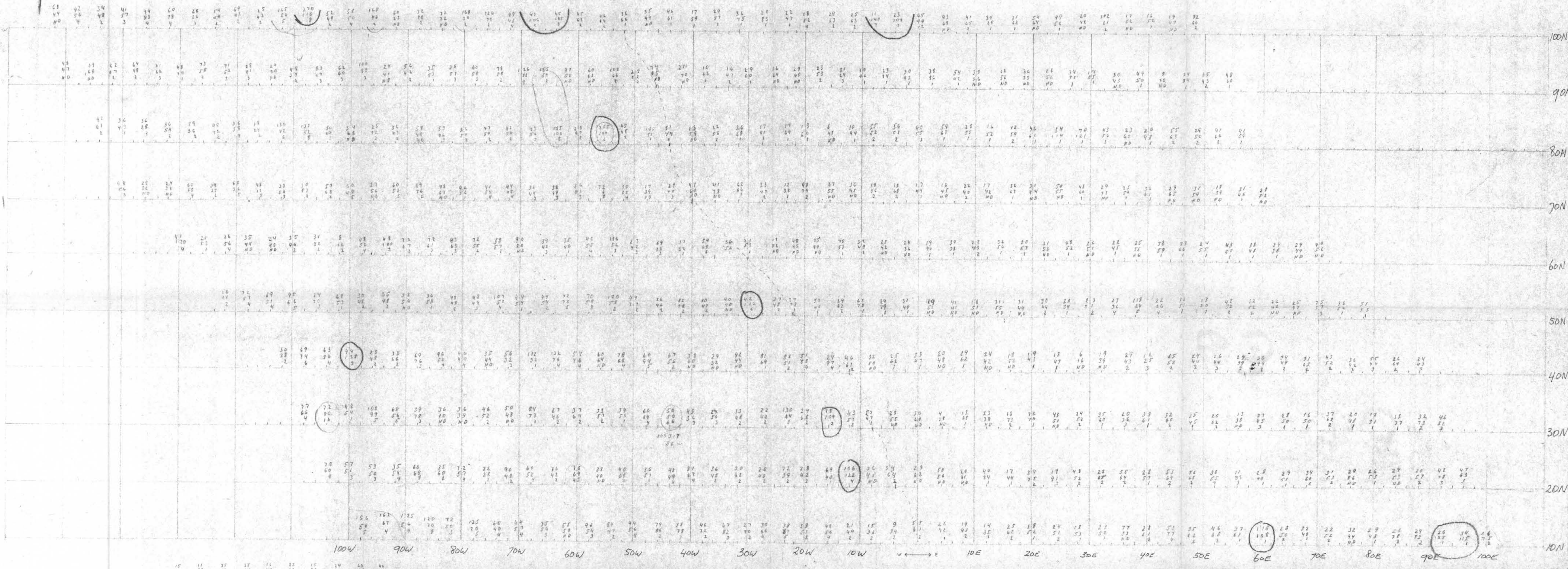
MAGNETOMETER SURVEY  
PRINCETON PROJECT

800 0 800 1600  
SCALE IN FEET

V. Mukans July 15, 1970 FIG: 2

SLIPS W

Lambert Creek



15	11	30	28	14	23	15	14	43	44
21	17	27	20	11	11	11	11	11	11
26	23	20	17	14	19	16	15	12	12
42	33	41	42	42	42	42	42	42	42
50	37	45	3	23	27	27	27	27	27
60	47	47	12	72	70	72	72	72	72

26 — Cu  
 52 — Zn  
 ND — Mo

2763 M-4

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2763  
 MAP

CO Claims

For secondary report by  
J.H. Montgomery, P.Eng. dated July 15, 1970

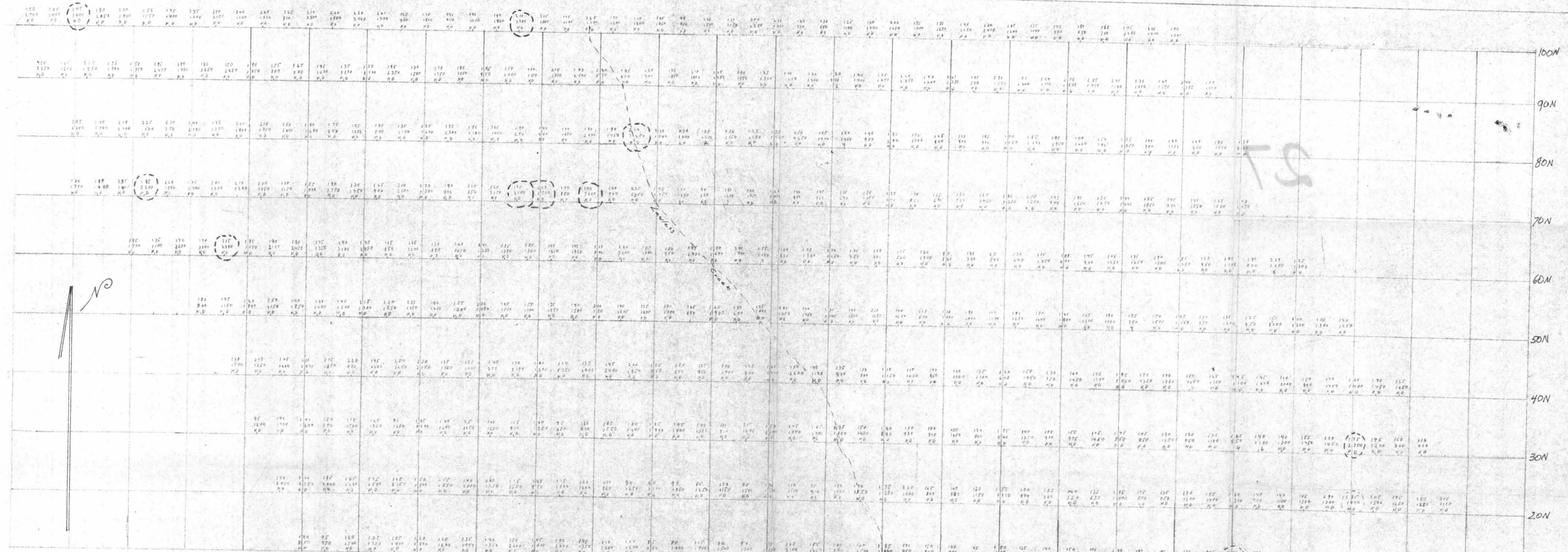
**GEOCHEMICAL PLAN**

**PRINCETON PROJECT**

0 500 1000  
SCALE IN FEET

V. Mukans July 15, 1970 FIG. 3





	100W	90W	80W	70W	60W	50W	40W	30W	20W	10W	10E	20E	30E	40E	50E	60E	70E	80E	90E	100E	
203 N	150	130	155	140	170	200	150	190	180	170	160	150	140	130	120	110	100	90	80	70	60
200 N	140	135	150	145	175	205	155	195	185	175	165	155	145	135	125	115	105	95	85	75	65
187 N	130	125	140	135	165	195	145	185	175	165	155	145	135	125	115	105	95	85	75	65	55
182 N	120	115	130	125	155	185	135	175	165	155	145	135	125	115	105	95	85	75	65	55	45
168 N	110	105	120	115	145	175	125	165	155	145	135	125	115	105	95	85	75	65	55	45	35
154 N	100	95	110	105	135	165	115	155	145	135	125	115	105	95	85	75	65	55	45	35	25

DETAIL

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 2763 MAP

2763

205 - Cu  
1400 - Zn  
100 - Mo

M-5



CO Claims

To accompany report by  
J.H. Montgomery, R.Eng. dated July 15, 1970.

**BIO GEOCHEMICAL PLAN**

**PRINCETON PROJECT**

800 0 800 1600  
SCALE IN FEET

V. Miskans July 15, 1970 FIG. 4