

5888

REPORT ON A GEOLOGICAL AND
MAGNETOMETER SURVEY
LOREX AND ROSS CLAIMS

LORNE MINING CORPORATION LTD.

by

M. W. Waldner

June 1976

Claims:

Lorex 101 - 118
Lorex 123 - 142
Ross 1, 2 and 4 Fractions

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5888 MAP _____

Locations:

Highland Valley, B.C.

About 65 Kilometers southeast of Ashcroft, B.C.
Kamloops Mining district

50° 24' 30" N 121° 05' W N.T.S. 92I/6H

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Introduction:

During August and September of 1975, fill-in geological mapping and re-interpretation of previous work was done on the Lorex and Ross claims in the Highland Valley area of south central British Columbia. During May and June of 1976, exploration work included tying and balancing previous magnetometer surveys to magnetometer surveys on other claims held by Lornex Mining Corporation Ltd. Ground survey control for new claim blocks and lines to tie the Lorex claims to other Lornex claims to the east was also done. Approximately one-third of this survey was to facilitate tying geological mapping and the magnetometer grid lines of the Lorex ground to claims held by Lornex to the east.

The property is reached by paved road from Ashcroft to the Highland Valley, a distance of about 48 kilometers. Access is then through Lornex Mines or past Calling Lake south towards Pinanus Lake. The total distance from Ashcroft to the claims is about 65 kilometers.

The topography of the area is one of generally moderate relief from about the 1525 metre elevation in the south to about 1675 metres in the northern portion of the claims. Glacial, boulder till covers much of the property and is generally deeper (i.e. plus 3 to 5 metres) in the gulleys. Vegetation varies from parkland of pine and spruce to thick secondary growth.

Previous work on the claims included line cutting, geological mapping, soil sampling, magnetometer and induced polarization surveys. Exploration work carried out by Lornex Mining Corp. Ltd. included fill-in geological mapping and a magnetometer survey to tie previous surveys to magnetometer surveys done on other parts of Lornex ground.

The work was done during the period of August 5, 1975 intermittently to June 8, 1976.

The claims explored (Figure 2) include:

<u>Group Name</u>	<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date *</u>
Brown	Lorex	101	June 28, 1976
		102	
		103	
		104	
		105	
		106	
		107	
		108	
		109	
		110	
Dawn S	111	49	June 28, 1978
Brown	112	50	June 28, 1976
Dawn S	113	51	June 28, 1977
Indigo	114	52	June 28, 1976
Dawn S	115	53	June 28, 1978
Indigo	116	54	June 28, 1976
Dawn S	117	55	June 28, 1978
Indigo	118	56	June 28, 1976
Brown		123	
		124	
		125	
		126	
		127	
		128	
		129	
		130	
		131	
		132	
Brown		133	
		134	
		135	
		136	
		137	
		138	
		139	
		140	
		141	
		142	
Dawn S		75	
Indigo		76	
Brown	Ross	1 Fr.	77
		2 Fr.	78
Indigo	4 Fr.	80	

*(As of May 1976)

Geology and Mineralization: (See Plate I)

The claims explored lie within the composite, concentrically zoned, upper Triassic, Guichon Creek Batholith. The batholith which is approximately 65 kilometers long and 30 kilometers wide, trends in a north-northwesterly direction. The rock types of the batholith include diorite, quartz diorite, granodiorite, quartz monzonite and porphyries.

The claims are underlain by the Bethsaida phase of the batholith. The composition varies from a coarse grained granodiorite to quartz monzonite. This phase is generally in the central portion of the batholith and is considered one of the youngest phases.

The Bethsaida is a slightly porphyritic, coarse-grained rock usually characterized by the presence of large "book" biotites and sub-rounded quartz phenocrysts.

Pink aplite dykes 5 to 10 cm. wide intrude the Bethsaida. No definite trends to the dykes were observed although many appear to strike in a northerly direction.

Hydrothermal alteration of the Bethsaida is common but generally very weak. There is a weak zone of epidote and calcite mineralization/alteration in the northern part of the property. Very, very weak argillic alteration characterized by the presence of chlorite, sericite and kaolinite is widespread. Some minor secondary potash feldspar was observed.

Copper mineralization, generally with associated weak argillic alteration, consisted of secondary malachite as well as chalcopyrite and bornite. Mineralization was minor and when observed, usually occurred as a thin coating of sulphides on Fracture planes. Copper mineralization (chalcopyrite, bornite and malachite) was observed on Lorex 105, 107, 109, 112, and 134. u

Magnetometer Survey: (See Plates II & III)

An overlapping of previous surveys on the Lorex claims and surveys done by Lornex Mining Corp. Ltd. in 1974 allowed tying of the Lorex surveys to the Lornex surveys. The overlap occurs on Lorex 101, 103, 105, 107, 109 and 111.

A McPhar M700 fluxgate magnetometer was read at 60 metre (200 foot) stations on picket-line grids of the Lorex claims and the Lornex claims east of the Lorex ground. A base station was established on Lorex 107 claim and the magnetometer was set to 450 gammas. All subsequent readings were tied to this base station and other sub-base stations established later. All traverse information was recorded in a hard-cover field book. After the survey was completed the differences between the Lorex and Lornex surveys were calculated and the surveys tied together.

Magnetometer Survey: (Cont'd.)

Magnetic responses over the ground is generally weak. This lack of magnetic response made contouring of information difficult and as a result a 200 gamma contour interval was chosen. All magnetic anomalies found are weak, and as suggested in other reports on the area, do not warrant further investigation.

Ground Survey Control:

A ground survey tying Lornex claims east and southeast of the Lorex and Ross claims was done during October and November of 1975. Approximately one-third of this survey was done to tie the cut-lines and claims together to facilitate controls for the geological mapping and magnetometer survey on the Lorex claims. A line cutter employed by Lornex Mining Corp. Ltd. and McElhanney Associates did the work.

Conclusions:

The results of the magnetometer survey indicate that the low magnetic susceptibility is of little help in interpreting zones of hydrothermal alteration or fault zones. The magnetometer results are about the same order of magnitude as responses on the western side of the Lornex survey to which the Lorex surveys were tied.

The geological mapping showed only small areas of weak sulphide mineralization. Hydrothermal alteration observed was weak giving little indication of possible well mineralized zones.

M. W. Waldner
M. W. Waldner.

Date: June 17, 1976

Appendix I

Table of Expenditures

A. Geological Mapping:(1" = 1000')

<u>Personnel</u>	<u>Dates Worked</u>	<u>No. of Days</u>	<u>Rate/Day</u>	<u>Cost</u>
M. Waldner	Aug. 5-7, 1975	3	\$150.00	\$450.00
	18-22	5	\$150.00	\$750.00
	25&26	2	\$150.00	\$300.00
	Sept. 9, 1975	1	\$150.00	\$150.00
R. Yorke- Hardy	Aug. 18-21, 1975	4	\$ 75.00	\$300.00
	Sept. 9, 1975	1	\$ 75.00	\$ 75.00
R. Willis	Aug. 20-21, 1975	2	\$100.00	\$200.00
4-wheel drive, 3/4 ton pick-up truck 11 days @\$40.00/day=				\$440.00
Total				= \$2665.00

B. Magnetometer Survey:

M. Waldner	May 26-28, 1976	3	\$150.00	\$ 450.00
R. Scott	May 26-28, 1976	3	\$ 50.00	\$ 150.00
R. Scott	May 31- June 3, 1976	4	\$ 50.00	\$ 200.00
G. Smith	May 24, 1976	½	\$125.00	\$ 62.50
	May 28, 1976	½	\$125.00	\$ 62.50
Magnetometer rental, 4 days @ \$15.00/day				\$ 60.00
4-wheel drive, 3/4 ton pick-up truck 3 days @\$40.00/day=				\$ 120.00
Total				= \$1105.00

C. Ground Survey Control:

G. Kadji	Nov. 3-5, 1975	3	\$ 65.00	\$ 195.00
McElhanney Associates one-third of \$5962.77				= \$1987.59
Total				= \$2182.59


D. Drafting and Report Preparation:

<u>Personnel</u>	<u>Dates Worked</u>	<u>No. of Days</u>	<u>Rate/Day</u>	<u>Cost</u>
M. Waldner	Feb. 11-12, 1976	2	\$150.00	\$300.00
	Mar. 1, 1976	1	\$150.00	\$150.00
	June 4, 1976	1	\$150.00	\$150.00
	June 6-8, 1976	3	\$150.00	\$450.00
R. Yorke- Hardy	Feb. 11, 1976	1	\$ 75.00	\$ 75.00
	June 1, 1976	1	\$ 75.00	\$ 75.00
	June 7-8, 1976	2	\$ 75.00	\$150.00
Printing, copying, typing, etc.				= \$100.00
Total				= \$1450.00
Total Expenditure				= <u>\$7402.59</u>

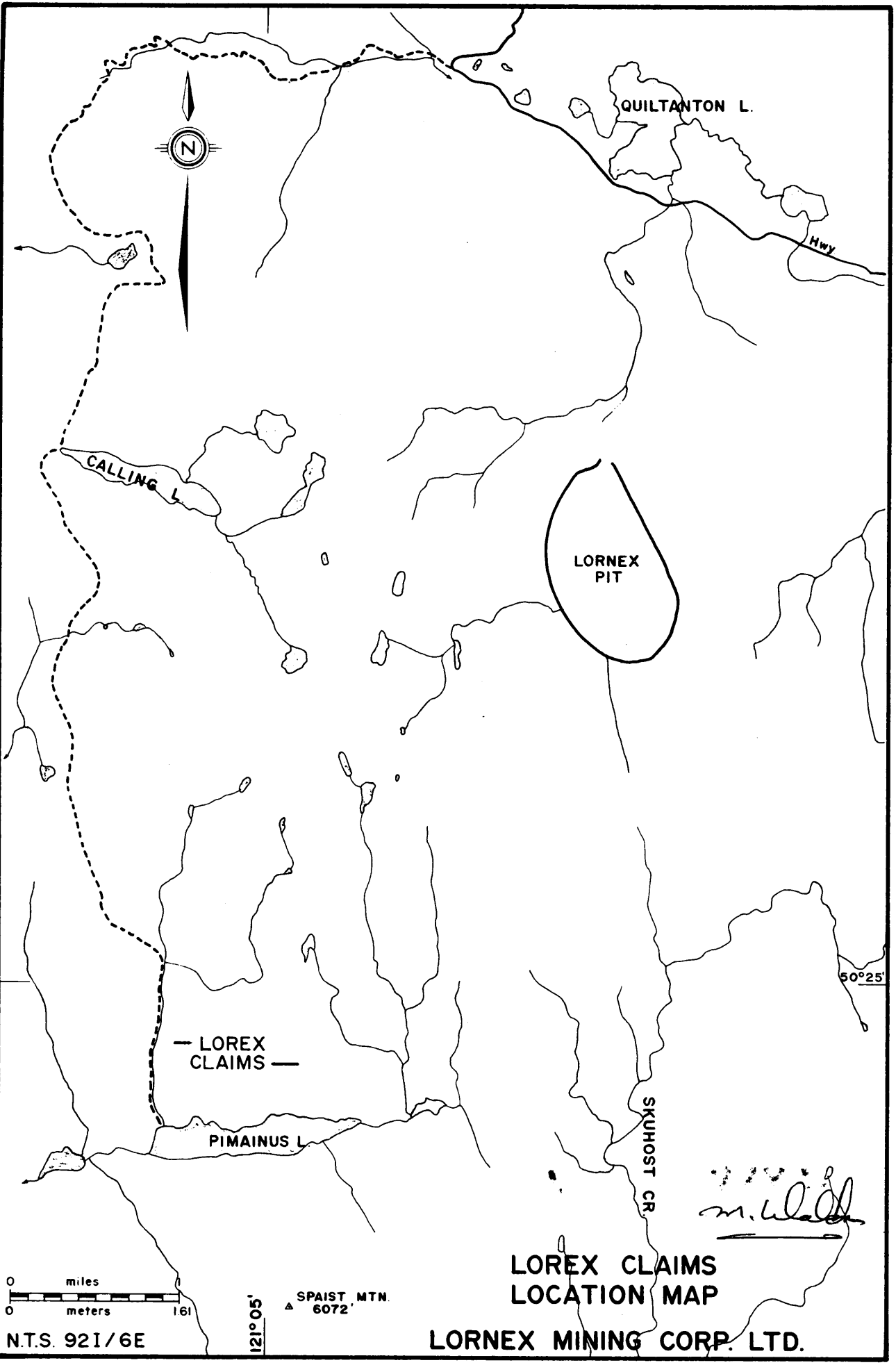
Statement of Qualifications:

M. W. Waldner

1. I graduated with a B.Sc. in geology from the University of B.C. in 1969.
2. I have been employed as an exploration and mine geologist for more than 7 years.
3. I have supervised geological mapping and magnetometer surveys in positions with Atlas Explorations Ltd. (N.P.L.), Endako Mines Ltd., and Lornex Mining Corp. Ltd. and written reports on above.
4. Statements made in this report are based upon geological and geophysical information.



M. W. Waldner,
Mine Geologist.



QUILTANTON L.

Hwy

CALLING L.

LORNEX PIT

— LOREX CLAIMS —

PIMAINUS L.

SKUHOST CR

50°25'



N.T.S. 921/6E

121°05'

▲ SPAIST MTN. 6072'

[Handwritten Signature]

LOREX CLAIMS LOCATION MAP

LORNEX MINING CORP. LTD.

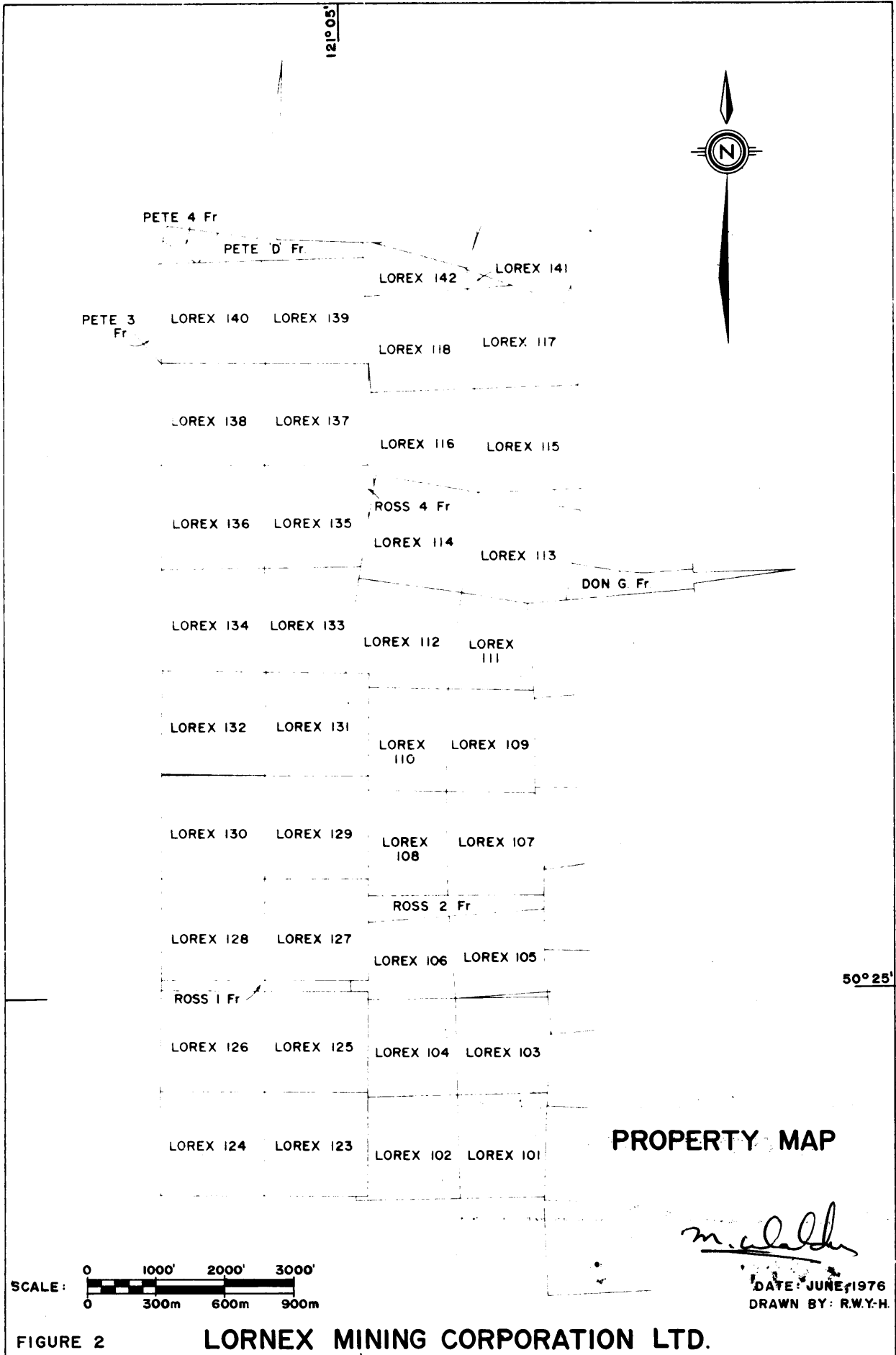
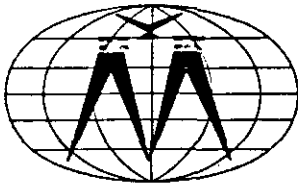


FIGURE 2

LORNEX MINING CORPORATION LTD.

INVOICE



McELHANNEY ASSOCIATES *Professional Land Surveyors*

Please remit to: 200 - 1200 West Pender Street,
Vancouver, B.C.

In account with:

Lornex Mining Corporation Ltd.,
P.O. Box 1500,
Logan Lake, B.C. V0K 1W0

Invoice No. 75-378

Date December 23, 1975

Your Order No. 5-40783

Our Job No. 13203-0

Attention: Mr. R. Yorke-Hardy

FOR PROFESSIONAL SERVICES IN RESPECT TO:

Ground Survey of Control lines for new claim blocks and tie lines to existing mineral claim posts south of main pit

PROGRESS BILLING TO NOVEMBER 30, 1975

) Field & Office Labour

J. Matthews, B.C.L.S.	1 hr.	30.00	
2 man survey crew -			
M. Shaw & P. Gillies	18 days @ \$190.00 per day	3,420.00	
Overtime		137.28	
M. Sondergaard, Drafting	12.5 hrs.	170.75	
M. Shaw, Transitman - Plotting	46.5 hrs.	550.56	
			4,308.59

(2) Direct Charges

4-wheel drive vehicle, 18 days			
@ \$30.00	540.00		
Electronic Equipment	18.75		
			558.75

(3) Direct Expenses

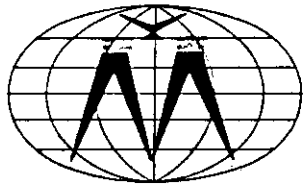
Freight = Cartage	13.69		
Hotel	516.04		
Meals	264.00		
Maps, Plans & Reproductions	6.61		
Survey Posts - 6 Iron Pins	6.78		
	807.12		
Plus 10% Administration:	80.71		
			887.83

\$5,755.17

Terms: Net 30 days. Interest at 1% per month will be charged on overdue accounts

JWPM/so

INVOICE



McELHANNEY ASSOCIATES Professional Land Surveyors

Please remit to: 200 - 1200 West Pender Street,
Vancouver, B.C.

In account with:

Lornex Mining Corporation,
P.O. Box 1500,
Logan Lake, B.C. V0K 1W0

Invoice No. 75-403

Date January 29, 1976

Your Order No. 5-40783

Our Job No. 13203-0

Attention: Mr. Bob Yorke-Hardy

FOR PROFESSIONAL SERVICES IN RESPECT TO:

Ground survey of Control Lines for new claim blocks & tie lines to existing mineral claimposts
South of main pit

FINAL BILLING

(1) Field & Office Labour

M. Shaw, Instrumentman	5.0 hrs.	
C. Picard, Drafting	.5 hrs.	
	<u>5.5 hrs.</u>	64.53

(2) Direct Expenses

Freight-Cartage	7.94	
Maps, Plans & Reproductions	116.30	
Telephone	5.82	
	<u>130.06</u>	
Plus 10% Administration:	13.01	

143.07

\$207.60

*O.K. for payment.
Feb 11 / 76
Donald Graham*

B. BRID
2135 WESTSIDE RD.
KAMLOOPS, B.C.
JUNE 1, 1976

LORDEX MINING CORPORATION LTD.
P.O. BOX 1500,
LOGAN LAKE, B.C.

DEAR: GARY SMITH.

4 DAYS RENTAL @ \$15.00 / DAY = \$60.00
(MAG., - McPHARM-700 - S.N. 7169)

REF. No.: 7103
PURCHASE ORDER No.: 6-88562

THANK-YOU VERY MUCH AND I HOPE THAT
EVERYTHING WORKED SATISFACTORY.

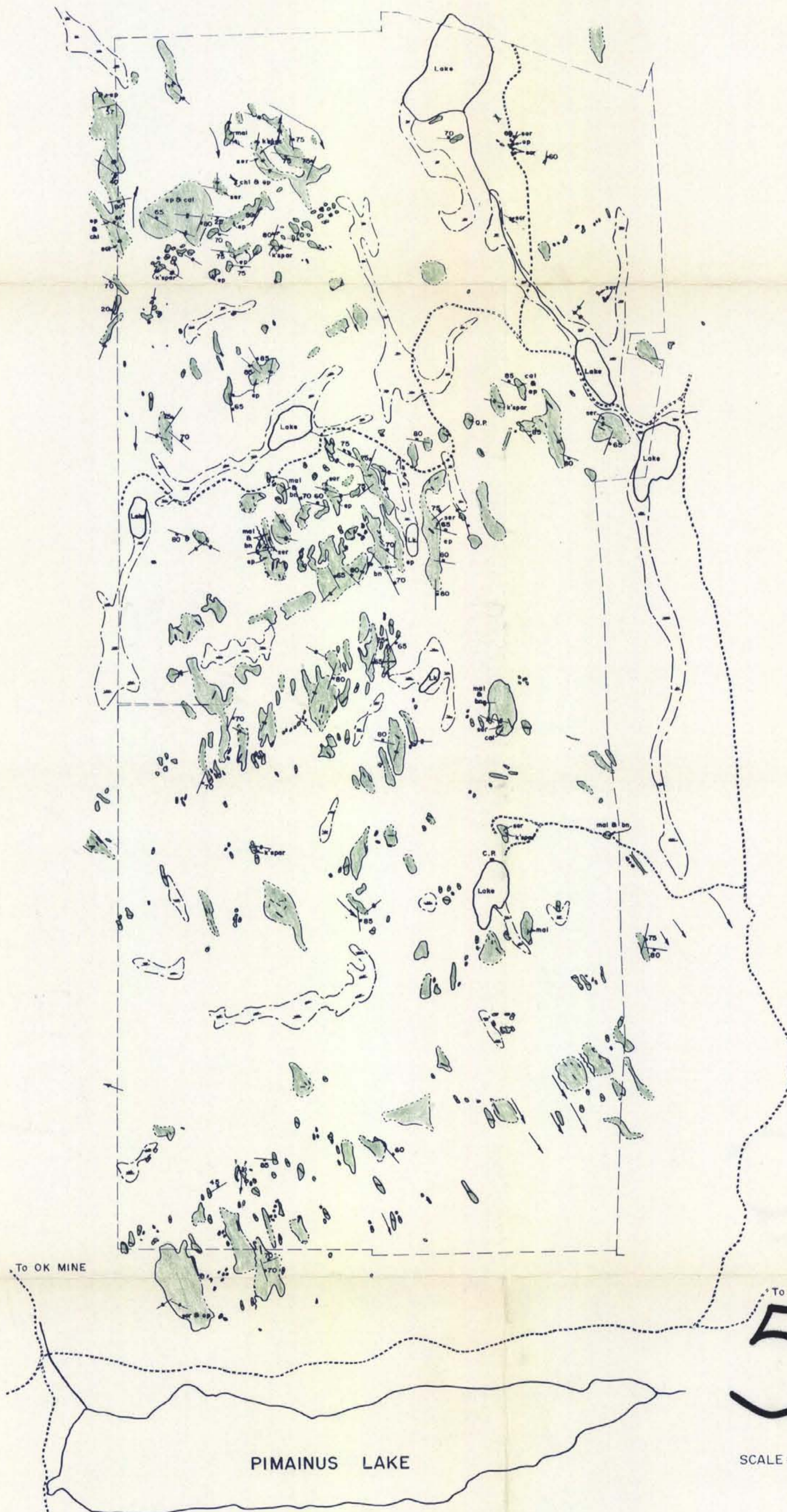
YOURS TRULY
B. BRID.

OK for Payment
June 3/76
McWalsh

change to Assessment wk.
Acct #
4711-01

12805

50°25'



LEGEND

GEOLOGY

- BETHSAIDA GRANODIORITE
- APLITE DYKE

SYMBOLS

- SWAMP
- GULLEY
- CLAIM BOUNDARY
- ROAD
- OUTCROP - inferred
- OUTCROP - observed
- STRIKE & DIP OF JOINT
- FAULT

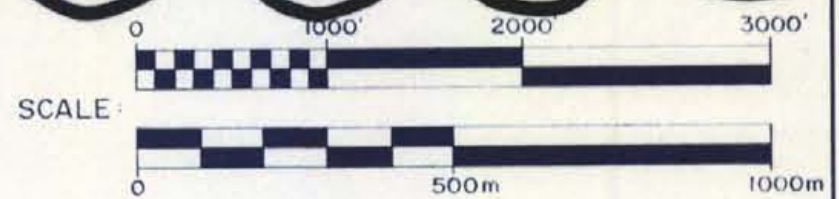
ABBREVIATIONS

- mal MALACHITE
- bn BORNITE
- cpy CHALCOPYRITE
- ser SERICITE
- k'spar POTASH FELDSPAR
- ep EPIDOTE
- chl CHLORITE
- cal CALCITE

To OK MINE

To LORNEX MINE

5888



PIMAINUS LAKE

LORNEX MINING CORP. LTD.
GEOLOGICAL PLAN

PLATE I

m.w. walsh

M-3



BASELINE + 5000' W

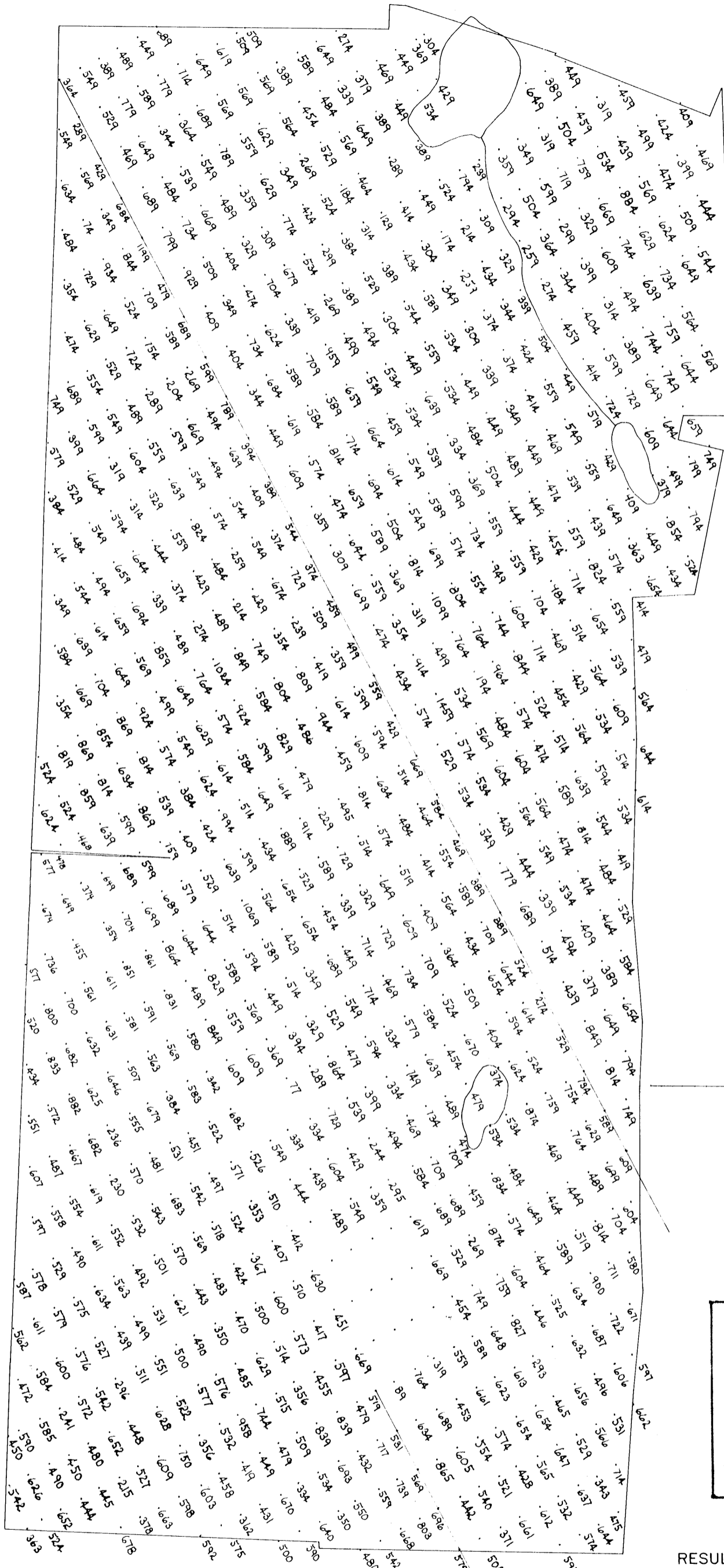
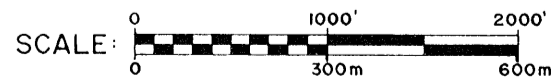
LINE 68N

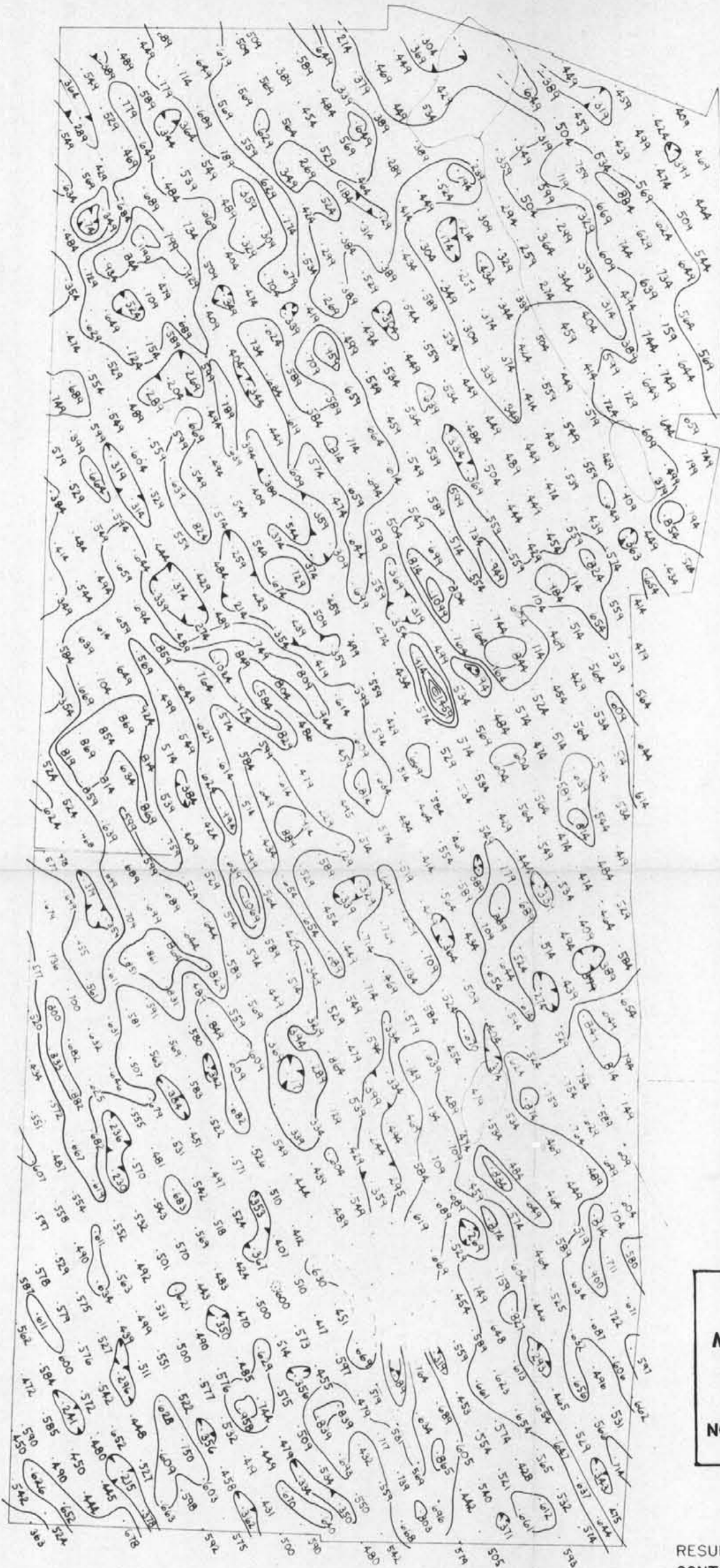
Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
 NO. **5888** MAP **4**

RESULTS IN GAMMAS

MAGNETOMETER SURVEY
 — READINGS —

m.w. walsh





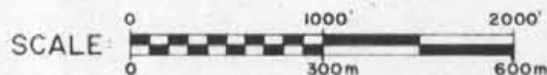
BASELINE - 5000' W

LINE 68N

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **5888** MAP **5**

RESULTS IN GAMMAS
CONTOUR INTERVAL - 200 GAMMAS

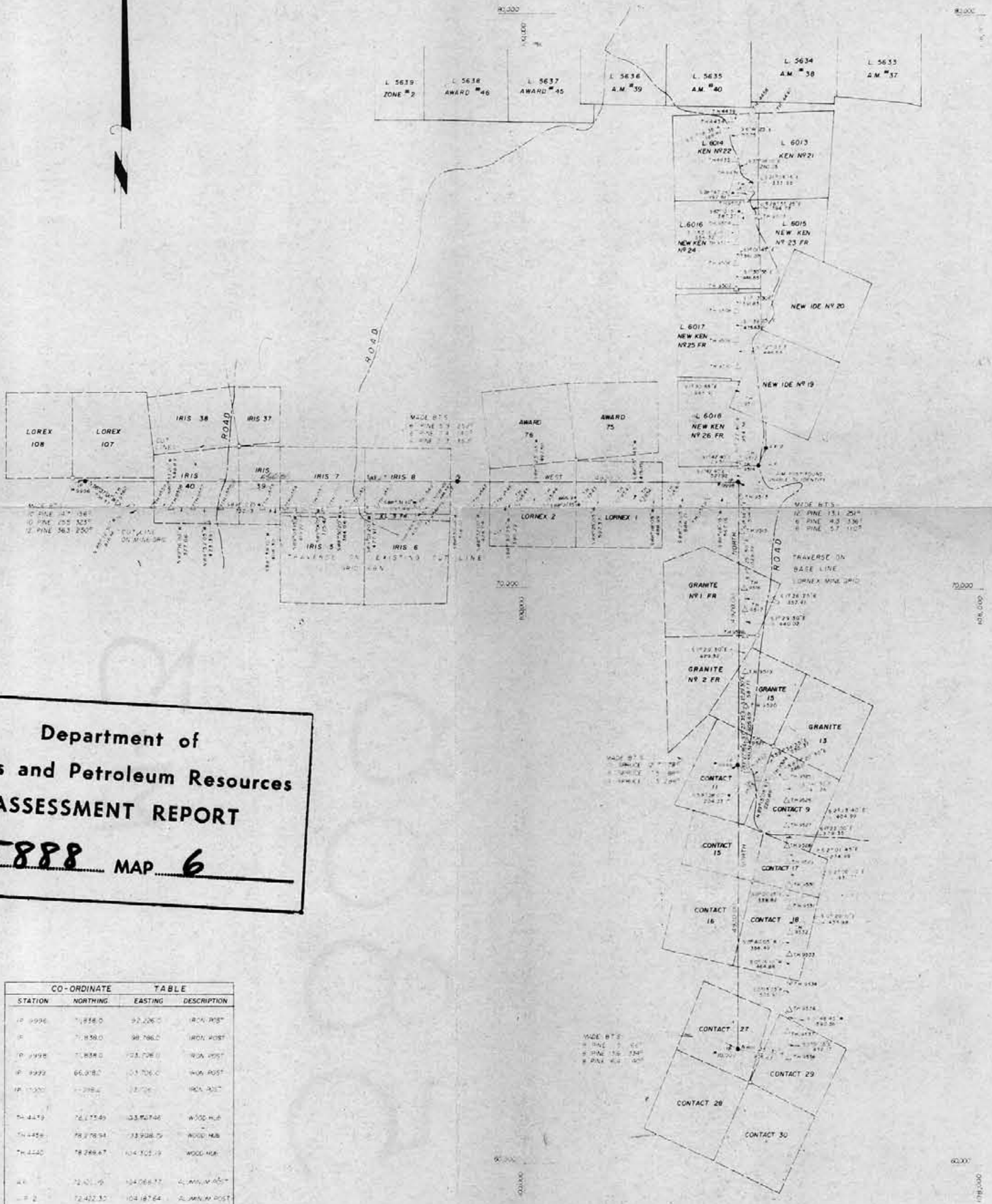


MAGNETOMETER SURVEY
- CONTOURS -

M. W. Walker

LORNEX MINING CORPORATION LTD.
 SURVEY PLAN OF MINERAL CLAIM CONTROL.
 HIGHLAND VALLEY, B.C.

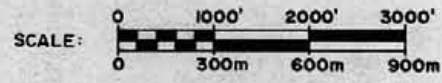
SCALE : 1 INCH = 2,000 FEET



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5888 MAP 6

CO-ORDINATE TABLE			
STATION	NORTHING	EASTING	DESCRIPTION
IP 1996	71858.0	92206.0	IRON POST
IP	71858.0	98786.0	IRON POST
IP 1998	71858.0	103706.0	IRON POST
IP 1999	66978.0	103706.0	WOOD POST
IP 1500	71298.0	103706.0	IRON POST
TH 4419	76175.49	103907.46	WOOD NUB
TH 4458	76175.94	103908.59	WOOD NUB
TH 4420	78288.67	104105.19	WOOD NUB
AL 1	72421.52	104068.77	ALUMINUM POST
AL 2	72422.52	104187.64	ALUMINUM POST

- LEGEND**
- IP DENOTE ALUMINUM POST & LAC
 - IP DENOTE IRON POST SET
 - IP DENOTE MINERAL CLAIM POST SET - SURVEY BY COMPASS AND CHAIN
 - IP DENOTE TRAVELER PILE WITH SIGN/MARKY TAG
 - IP DENOTE TRAVELER LINE
 - IP DENOTE EXISTING ROADS (APPROX POSITION)



CERTIFIED CORRECT

Geoff Matthews B.C.S.
 (DATE THIS DAY OF DECEMBER 1975)
M.W. Adolphe

LEGAL SURVEY PLAN

PLATE IV

MCDONALD & ASSOCIATES
 PROFESSIONAL LAND SURVEYORS
 1200 WEST BEND STREET
 VANCOUVER, B.C.
 JOB 48-13203 DWG. "C"