

This is Report No. A-70-100-M
For Mamit Lake Mines Ltd. (NPL)
MLM & GCM Claims Groups,
Highland Valley Area, B.C.
February 20th, 1970.

2247

<u>TABLE OF CONTENTS</u>	<u>PAGE</u>
Purpose	1
Location	1
Instrumentation	1
Geological Reference	2
Presentation	2
Results	2 & 3
Conclusions	3
Summary	3
Statement of Costs	4

PLANS

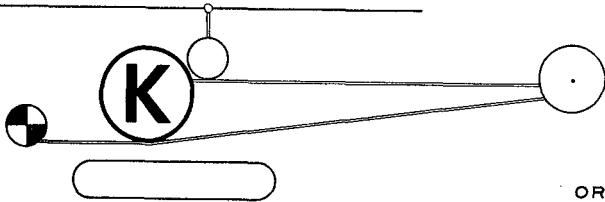
#/ Magnetic Profiles

A-70-100-M (Plans)

KLYCEPTOR INTERNATIONAL AIR SURVEYS LIMITED,
250 NORTH GROSVENOR AVENUE,
BURNABY 2, B.C.

Tel: 298-9619

Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. 2247 MAP
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KLYCEPTOR
INTERNATIONAL AIR SURVEYS LTD.

ORIGINATORS OF GEOELECTROMAGNETIC SURVEYS BY AIR
CUSTOM GEOPHYSICAL INTERPRETATIONS

February 20th, 1970.

KLYCEPTOR INTERNATIONAL GEOPHYSICAL REPORT NO. A-70-100-M
THIS GROUND MAGNETIC SURVEY COVERED THE MLM AND GCM CLAIMS
GROUPS IN THE HIGHLAND VALLEY AREA, B.C., 50° NORTH BY 120°
WEST, FOR MANIT LAKE MINES LTD., (MPL) JANUARY 2ND, 1970 TO
FEBRUARY 20TH, 1970, BY D.L. HINGS, P.Eng.

Purpose:

The purpose of this survey was to follow up the air-borne survey on the ground, with relatively close spaced traversed readings, to determine the anomalous features in detail that had been previously measured by the airborne instruments shown in the report A-70-100 of January 15th, 1970.

Location:

The MLM and GCM Claims Groups are located north and west of Manit Lake, north of Merritt, B.C., 50° North and 120° west. The location is referred to on the plan drawing No. A-70-100-ML. The survey covered claims MLM 54-58 inclusive, and 61 and 62.

Instrumentation:

A vertical fluxgate magnetometer reading total intensity of the vertical component of the earth's magnetic field was used throughout the survey. The instrument is manufactured by Sabre Electronics in Vancouver.

Geological Reference:

The British Columbia Department of Mines and Petroleum Resources, Bulletin No. 56 of the Guichon Creek, Batholith. by K.E. Northcote, 1969.

Presentation:

The survey is indicated on the drawing No. A-70-100-M. The grid lines are approximately east and west with the control lines north and south. Station spacing is varied between 25 and 50 feet relative to the judgment of the operator on the variation in his readings. The profiles as indicated on the plan have a scale of 1 inch equal to 500 gammas with the traverse line serving as the baseline of the total field of approximately 55,000 gammas. The variation of the readings plus or minus is indicated in the footnote on the drawing.

The traverse lines total 10 1/2 miles; 5 1/4 miles were traversed with station spacings at 25 foot averages and 5 1/4 (50 Ft.) miles. The grid lines and tie lines are shown with respect to the co-ordinates and the local roads. The survey was conducted by R.L. Reece and assisted by J.W. Mather and J. Wiggins.

Results:

The interpretation of the anomalies are indicated in linear form and are identified by indicating the linear anomalies with the letter L and the apparent cross-faulting with the letter F. Interpretation indicates block faulting with L1, L1a and L1b having the most substantial reading. The

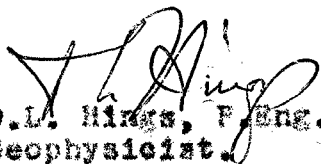
L2 linear anomaly is broken by the line 34+00 south which does not show any anomalous features in line with the remainders of the anomaly. The L3 linear anomaly to the north appears to be fairly substantial crossing over the traverse.

Conclusions:

The magnetic susceptibility response is weak generally. The single component vertical field instrument emphasizes the eastwest fracturing as compared to northsouth linear anomalies. Generally speaking, these anomalies do not warrant surface investigation although L1a is located crossing a gully, that surface prospecting might reveal the cause of the anomaly. The area is not difficult to get into as local roads exist.

Summary:

The importance of these magnetic anomalies depend largely upon the geological information existing covering this local area.


D.L. Hings, P. Eng.,
Geophysicist.

A STATEMENT OF COSTS FOR GEOPHYSICAL SURVEY NO. A-70-100-N
COVERING THE MLM & GCM CLAIMS, HIGHLAND VALLEY AREA, 18 MILES
NORTH OF MERRITT, B.C., BY KLYCEPTOR INTERNATIONAL AIR SURVEYS
LIMITED, JANUARY 2ND TO FEBRUARY 20TH, 1970.

Survey Crew:

R.L. Reese	10 days @ \$50.00	\$ 500.00	
W. Mather	10 days @ \$32.00	320.00	
J. Wiggins	10 days @ \$25.00	250.00	
			<u>250.00</u>

\$ 1,120.00

Transportation:

Truck Rental (4x4) 10 days @ \$12.00	\$ 120.00	
Mileage Charge 1000 miles @ 12¢ per	120.00	
		<u>120.00</u>

\$ 240.00

Living Costs:

30 Man Days @ \$7.50 per day	\$ 225.00	\$ 225.00
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Equipment:

Sabre Magnetometer M-100 10 days @ \$10.00	\$ 100.00	\$ 100.00
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Data Processing & Drafting:

D.A. Cramer 4 days @ \$50.00	\$ 200.00	\$ 200.00
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Interpretation & Report:

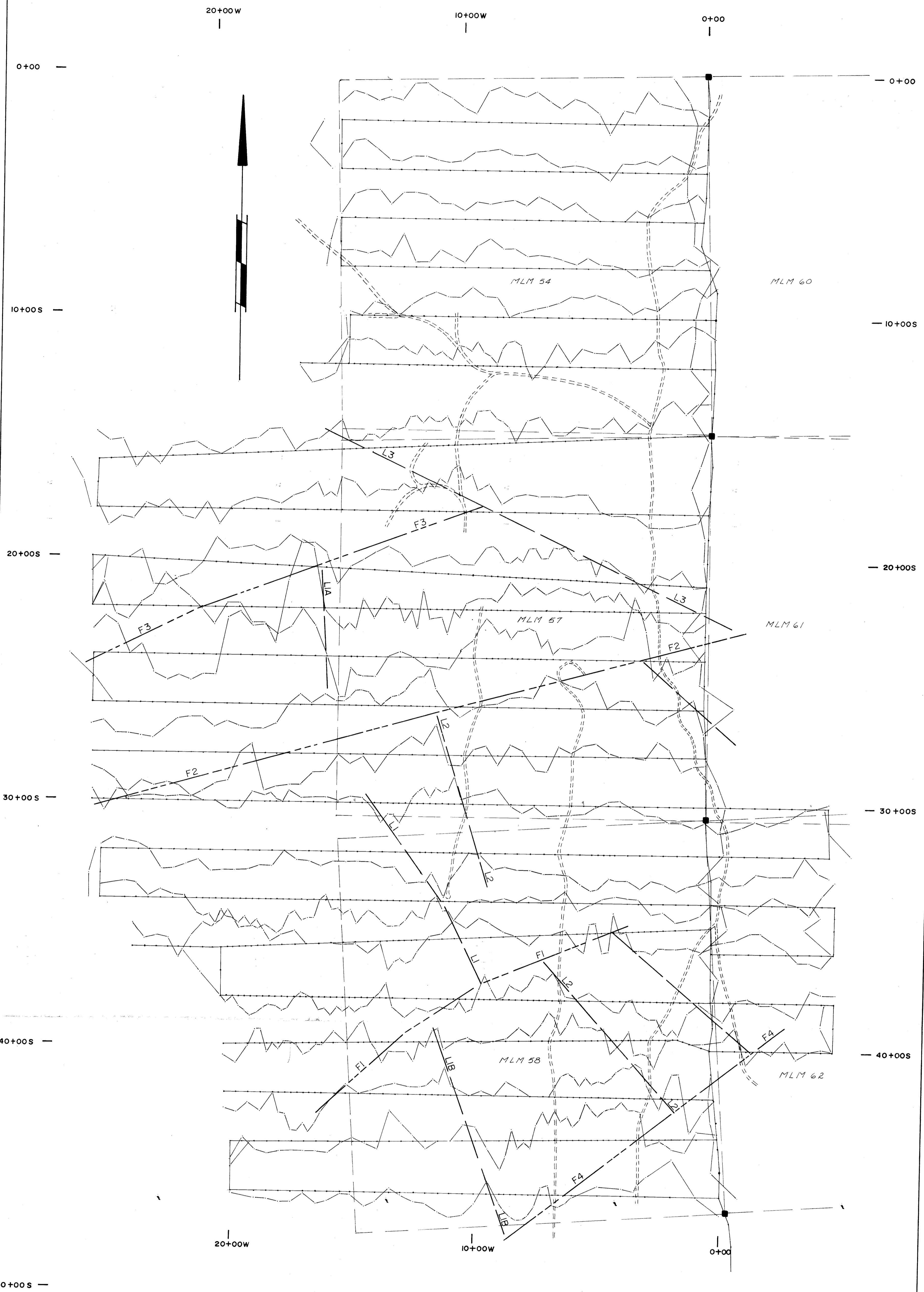
D.L. Rings, P.Eng.	\$ 200.00	\$ 200.00
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TOTAL \$ 2,085.00

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 24
day of February, 1970, A.D.

R.G. Billingsley

S. Gassotte
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia,



KLYCEPTOR GEOPHYSICAL SURVEY
 MLM & GCM GROUPS HIGHLAND VALLEY, B.C.
 MAMIT LAKE MINES LTD.
 FEB. 1970 SCALE: 1" = 200' DWG. NO.: A-70-100-M
 MAG. PROFILES
 APPROVED: *[Signature]*

NOTE:-
 SURVEY LINES & STATIONS
 CLAIM POST CLAIM LINE ROAD
 1" = 500' GAMMAS (ZERO LINE = 55,000γ)
 LINEAR ANOMALY
 FAULT

2247

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2247 MAP #1