52°, 122° N.E.

KLYCEPTOR GEOPHYSICAL REPORT

No. EM-68-1017

AXEL Claims Group

52°N - 122°W

for Plateau Metals Limited

4 miles NE of Marguerite, B. C.

January 30, to February 9, 1968

by D. L. Hings, P. Eng.

93 B - 8/9

1613

This is report no. EM-68-1017
for Plateau Metals Limited
in the area of Marguerite, B. C.
January 30 to February, 9,1968.

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PLAN

KLYCEPTOR INTERNATIONAL AIR SURVEYS LTD.
250 N. Grosvenor Avenue,
Burnaby 2, B. C.
298-9619

KLYCEPTOR
INTERNATIONAL AIR SURVEYS LTD.

ORIGINATORS OF GEOELECTROMAGNETIC SURVEYS BY AIR

CUSTOM GEOPHYSICAL INTERPRETATIONS

February 9th, 1968.

KLYCEPTOR GEOPHYSICAL REPORT NO. EM-68-1017 COVERING THE AXEL GROUP OF CLAIMS FOR PLATEAU METALS LIMITED. 4 MILES NE OF MARGUERITE, B. C. COVERING THE PERIOD JANUARY 30th, 1968 TO FEBRUARY 9th, 1968.

PURPOSE:

The purpose of the survey was to utilize the ice covering on Teakettle Lake to establish a ground survey grid to determine any anomalous features.

INSTRUMENTATION:

The survey was conducted with a Ronka EM-16 infinite source electromagnetic instrument operating on the 18.6 KCS signals from the low frequency station NPG, located in Arlington, Washington, U. S. A.

The instrument was operated by R. Reece assisted by K. Richardson.

GEOLOGICAL REFERENCE:

Reports and maps issued by the Geological Survey of Canada. (G.S.C. Memoir # 118)

250 NORTH GROSVENOR AVENUE - VANCOUVER, B.C. - PHONE: 298-9619

PRESENTATION

A plan view of the drawing EM-68-1017 shows 13 NE-SW lines 3,000 feet long, and 1 interconnecting SE-NW line 3,000 feet long, making a total line distance of 8 miles. The plan shows the northwest and east lake shore lines. The stake locations are indicated for the AXEL claims. The claims immediately pertinent to the survey are AXEL 3, 4, 5 and 6, as indicated on the plan.

The component profiles are indicated in their polar pattern as noted on the drawing. The interpretation is based on the polarization and configuration of the anomalies with reference to adjacent lines. The conductivity is similarly referred to and determined from the relative component phase characteristics. The interpretation is based on the signals originating in the south.

RESULTS

The results over the ice on the lake showed more active anomalous conditions than normal and are largely made up from conductive linear fracture patterns and a fault zone below the lake. The two principle conductive zones Z1 and Z2 are significantly located with the apparent block faulting anomalies. The conductive zone Z1 adheres to the conductive linear anomalies CL1 and CL3 and CL5. The conductive zone Z2 appears to be associated with a

conductive linear anomalies CL2, CL4 and CL1-A. The bedding would appear to be striking approximately north and south with the cross fracturing east and west and in general, the block faulting occuring in the northwest southeasterly pattern, and apparently controling the main conductive zone anomalies.

CONCLUSIONS

It is not unusual to have considerable conductive indications around lakes where the drainage system could maintain conduction within the deeper fracture zones. It is also common for the conduction to adhere closely to the shore lines with much weaker readings in the centre portions of the lake. In the case of the zones Z1 and Z2 generally speaking these do not adhere to the shore lines and do follow the fracture patterns. In both cases the anomalies cover a small portion of shore line where some investigation might be made when the lake is not frozen.

RECOMMENDATIONS

An initial investigation into the depths to the lake bottom should be made to indicate whether the zones are in deeper or shallow water than the average depth. The depth of water would give some indication to the probability of the conduction either being created by the close proximity of the bottom or inversely from a deeper errosional cavity having geological significance. Assuming these are not shallow areas, then the property warrants further geological investigation.

KLYCEPTOR INTERNATIONAL AIR SURVEYS LTD.

D. L. Hings, P. Eng.
Geophysicist

February 9, 1968.

A STATEMENT OF COSTS FOR EM-16 GEOPHYSICAL SURVEY COVERING THE AXEL CLAIMS NORTHEAST OF MARGUERITE, B. C. BY KLYCEPTOR INTERNATIONAL AIR SURVEYS LTD. JANUARY 30, TO FEBRUARY 9, 1968

KLYCEPTOR CHARGES

Survey Crew, 2 men:

R. Reece	3 days @ $35.00 =	$105.00	
K. Richardson	3 days @ $25.00 =	75.00	
		$180.00	
Plus 100% Overhead		180.00	
			$ 360.00

Transportation

4X4 Jeep Rental - 4 days @ $10.00 per day	$ 40.00	
300 miles @ 10¢ per mile	30.00	
		70.00

Living Costs

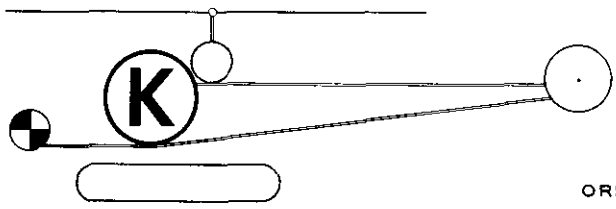
8 man days @ $12.00	96.00

Data Processing & Drafting

D. A. Cramer - 3 days @ $35.00	$105.00	
Plus 100% Overhead	105.00	
		210.00

Interpretation

D. L. Hings, P. Eng. - 2 days @ $50.00	$100.00	
		100.00
		$836.00



KLYCEPTOR
INTERNATIONAL AIR SURVEYS LTD.

ORIGINATORS OF GEOELECTROMAGNETIC SURVEYS BY AIR

CUSTOM GEOPHYSICAL INTERPRETATIONS

September 23rd, 1968.

TO WHOM IT MAY CONCERN:

Dear Sir:

Please be advised that our employee, Ronald L. Reece, operator and supervisor of magnetic and EM instruments qualified as an instrument operator for the firm of Electronic Geophysical Surveys Limited in 1962, spending two years in the field between British Columbia and Ontario including Saskatchewan and Alberta. In 1965 and 1966, conducted geophysical surveys in the western United States while residing in Denver, Colorado. On October 1st, 1967 he joined the staff of Klyceptor International Air Surveys Limited and took a refresher course on Ground EM Instruments and Airborne Magnetometer Instruments.

Mr. Reece is now a Canadian Immigrant and chief surveyor in charge of field operations for Klyceptor International Air Surveys Limited, having had considerable experience in ground and air operations in two component magnetometer instruments, low frequency loof instruments and remote EM (Ronka type instruments).

Very truly yours,

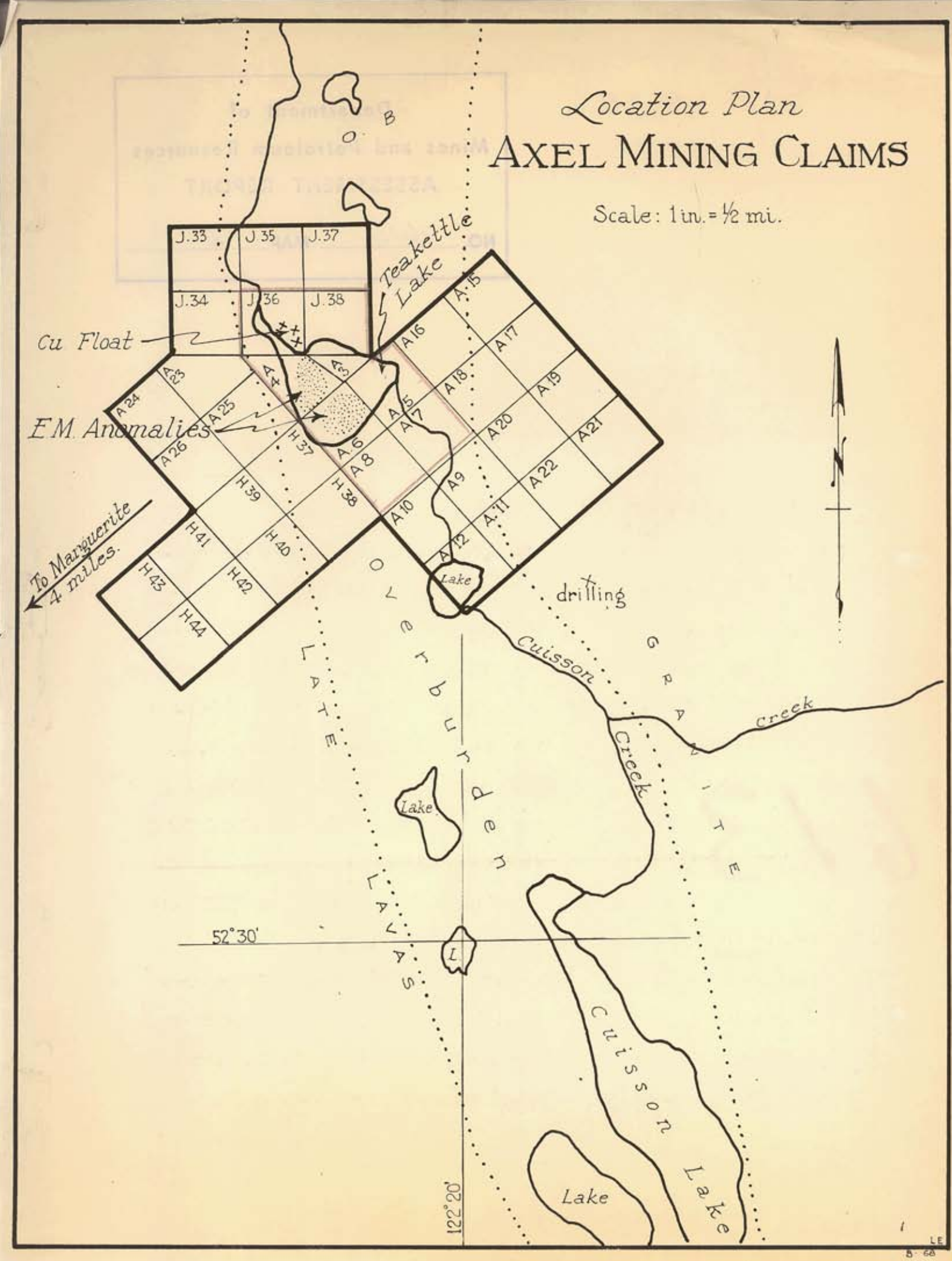
D.L. Hings, P.Eng.,
President.

DLH/mlb

250 NORTH GROSVENOR AVENUE - VANCOUVER, B.C. - PHONE: 298-9619

Location Plan
AXEL MINING CLAIMS

Scale: 1 in. = ½ mi.



20+00SE 30+00SE 40+00SE 50+00SE

35+00NE 35+00 NE

25+00NE 25+00 NE

15+00NE 15+00 NE

5+00NE 5+00 NE

CL3 SWAMP CL4A CL1B CL1A AXEL 3 AXEL 5 L1 CL2 CL5 Z1 CL3 CL1A CL4 Z2 L1 W.P. CL6 CL1 L A K E CL5 CL4 CL2 AXEL 4 AXEL 6 CL1 CL2 CL6

1613

KLYCEPTOR GEOPHYSICAL SURVEY

AXEL GROUP MARGUERITE, B.C.

PLATEAU METALS LTD.(NPL)

FEB.1968. SCALE:-1"=200' DWG.NO. EM-68-1017

EM PROFILES

APPROVED.....

NOTE:-

- ZERO LINE
- IN-PHASE (1"=30%)
- QUADRATURE (1"=30%)
- CLAIM LINE ● CLAIM POST
- LAKE ==== ROAD
- LINEAR ANOMALY
- CONDUCTIVE LINEAR ANOMALY
- CONDUCTIVE ZONE

20+00SE 30+00SE 40+00SE 50+00SE