

2418

This is Geophysical Report No. EM-70-1001
for June Claims Group, Little Fort, B. C. Area
for Junex Mines Ltd. (N.P.L.)
December 1969 to May 1970

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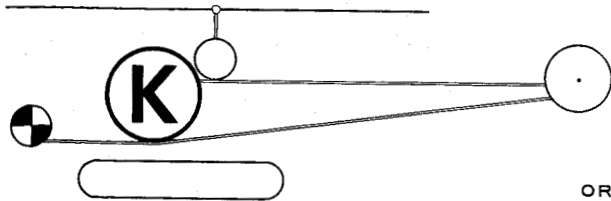
PLANS

#1 Anomalous Plan

EM-70-1001 (Rev)

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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2418** MAP.....



KLYCEPTOR
INTERNATIONAL AIR SURVEYS LTD.

ORIGINATORS OF GEOELECTROMAGNETIC SURVEYS BY AIR
CUSTOM GEOPHYSICAL INTERPRETATIONS

GEOPHYSICAL REPORT OF THE SURVEY NO. EM-70-1001 COVERING
THE JUNE CLAIMS GROUP, LITTLE FORT, B. C. AREA IN THE
NORTH THOMPSON VALLEY. 51° NORTH - 120° WEST, SURVEYED
FOR JUNEX MINES LIMITED, DECEMBER 1969 TO MAY, 1970

Purpose:

The purpose of this survey was to determine the possibility of the existence and location of electromagnetic anomalies created by geological changes in the substrata.

Instrumentation:

This survey was conducted with a Ronka Type EM 16 Instrument operating on an 18.6 KHZ from the signals emitted from the U. S. Navy Transmitting Station NKL in Arlington, Washington, U. S. A. The survey was conducted under the supervision of D. A. Saare.

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Geological Reference:

Geological Survey of Canada Map 3-1966 Bonaparte
River, B. C. 92P.

Location:

The June Claims Group 1 to 12 are located approximately one and one-half miles south of the town of Little Fort located in the North Thompson River Valley. The Group covers an area, approximately one-half mile wide and two miles long, lying to the west approximately one-half mile, and parallel to the valley. The north boundary terminates approximately at Montigny Creek, the southern boundary at Thuya Creek. Geographic location 120° West 51° North.

Presentation:

The survey includes 14 eastwest lines averaging 400 foot spacing and a centre northsouth base line, offset in two locations, as indicated on the Plan No. EM-70-1001.

The inphase and quadrature components (vertical and horizontal) are indicated in profile form at 100 foot intervals along the survey line.

The polarization and values of the respective readings are as noted and indicated in the plan. The interpretation is based on the polarization and configuration of the anomalous readings with reference to the adjacent lines. The interpretation is based on the signals originating in the southwest.

Surface features such as outcrops, roads, and a power line are shown with respect to the reported claim locations.

Results:

The east side of the Claims Group is nearly parallel with a power line, that in itself, creates anomalous features and thereby obscuring the subsurface influence within at least 100 feet east or west of a point directly below these lines. The most prominent anomaly is shown as F1 and possibly continues to F1A, extending south and east of the power line. The C1 eastwest anomaly on the

north end of the property appears to be in the region of a contact boundary or formation change.

The L1, L2 and L3 northsouth strike linear anomalies vary in strength relative to their numbers. The stronger L1 anomaly appears to offset to the south; and might extend as far as C1, but cannot be confirmed due to the excessive line spacing. The L4 anomaly is quite weak and appears to have very little significance.

Conclusions:

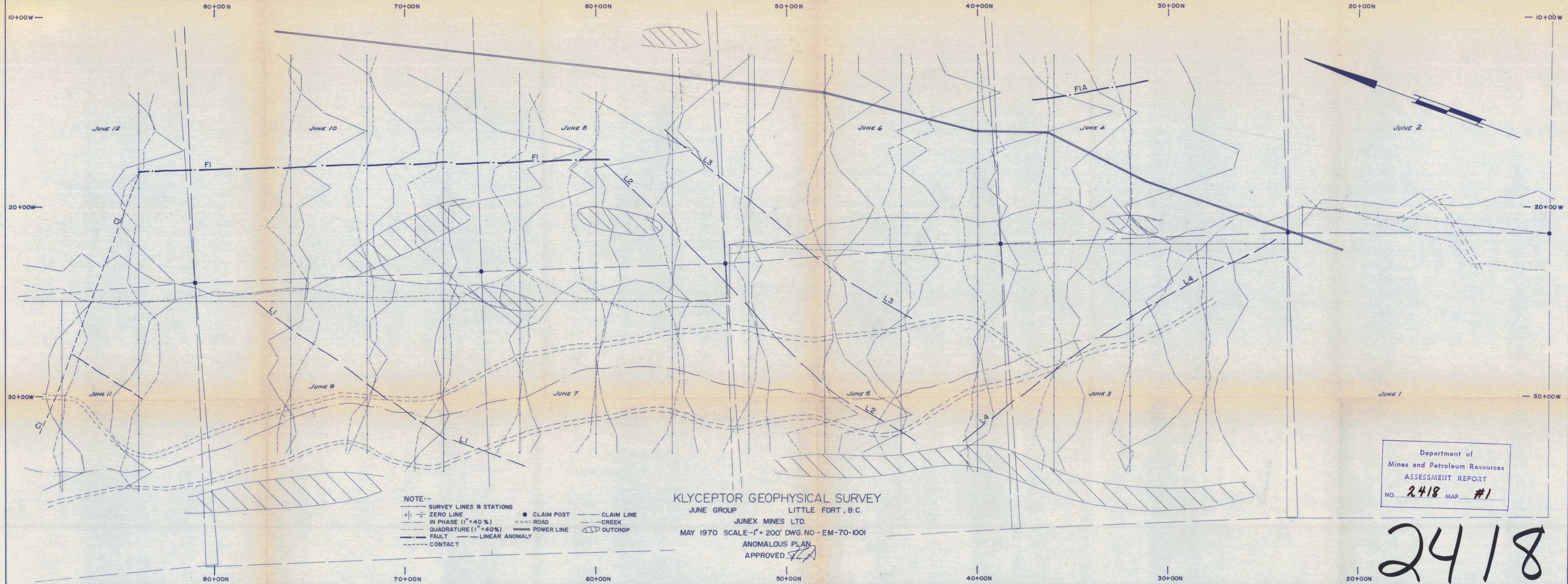
The F1 linear anomaly appears to be a prominent fault feature, possibly of regional dimensions, and includes the F1A portion to the south. The C1 eastwest linear anomaly is quite prominent and indicates the general formation change and strike of the contact. The L1 linear anomaly from lines 64 north to line 76 north inclusive indicates some conductive features. The profiles to the west and north of the L1 anomaly appear to be more substantial than to the south and east with the exception of the L2 linear anomaly.

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Recommendations:

The geophysical assessment indicates the outcrops in the northern half of the survey should be checked for geological significances with respect to these boundaries as indicated, and if the rock types are favourable, a more detailed survey is warranted in the northern area, having line spacing of no more than 200 feet. It is unfortunate that more lines were not run in this area, especially in view of the work rendered useless by the existence of the power line.


D.L.HINGS, P.GEOPH.



NOTE:-
 — SURVEY LINES & STATIONS
 +|— ZERO LINE
 — IN PHASE (1"=40%)
 - - - QUADRATURE (1"=40%)
 - - - FAULT
 - - - CONTACT
 ● CLAIM POST
 - - - ROAD
 - - - POWER LINE
 - - - LINEAR ANOMALY
 — CLAIM LINE
 - - - CREEK
 ○ OUTCROP

KLYCEPTOR GEOPHYSICAL SURVEY
 JUNE GROUP LITTLE FORT, B.C.
 JUNEX MINES LTD.
 MAY 1970 SCALE:-1"= 200' DWG. NO:- EM-70-1001
 ANOMALOUS PLAN
 APPROVED [Signature]

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 2418 MAP #1

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