

# 2618

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## PLANS

- #1 Profile Plan
- #2 CLAIM LINE LOCATION
- #3 CLAIM MAP

EM-70-1002

(Rear)

Rear  
11

KLYCEPTOR SURVEYS LTD.  
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Department of Mines and Petroleum Resources ASSESSMENT REPORT NO. <u>2618</u> MAP
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ELC GEOPHYSICS GEOPHYSICAL REPORT NO. EM-70-109 ON A  
GROUND ELECTROMAGNETOMETER GEOPHYSICAL SURVEY CONDUCTED  
BY D. A. SAARE OF KLYCEPTOR SURVEYS LTD. OVER THE "A"  
CLAIM GROUP, DUFFY LAKE AREA OF THE LILLOOET MINING  
DIVISION, B. C., JULY 7th to JULY 13th, 1970

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Purpose:

To determine the existence of EM anomalies  
and to thereby supplement the geological investigation  
of this property.

Location:

The "A" Claim Group is located on the south-  
east flank of the Cayoosh Creek Valley, at approximately  
three miles due east of the northeast end of Duffy Lake  
approximately twenty-two miles southwest of Lillooet,  
B. C.

Instrumentation:

The geophysical instrument comprised of a  
Ronka Type EM-16 manufactured by Geonics Limited of  
Toronto, operating on 18.6 KHZ, from the emission of  
U.S. Navy Station NPG in Arlington, Washington, U. S. A.

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Geological reference:

Preliminary report on the "A" Claim Group  
by J. P. Elwell, P. Eng., June 2nd, 1969 "there are no  
geological maps covering the area in which the claims  
lie. The outcroppings observed however, all consist  
of quartz monzonite and related types of intrusive".  
(Prospectus Seton Mines Ltd.)

Presentation:

The survey grid as indicated on the Plan No.  
EM-70-1002 is perpendicular to a central base line on  
the coordinates 55+00 E. This line is north 40° E.  
The grid lines crossing and extending from the central  
base line are at 90°. The closer grid lines have 100  
foot spacing and vary up to 300 foot spacing. The  
grid lines extend from the coordinates 16+00 E. to  
94+00 E. The control central base line extends from  
15+00 S. to 50+00 S.

The EM readings were taken at 100 foot inter-  
vals along the grid lines. The inphase and the quadra-  
ture components of the EM readings are shown in

.. con't ..

profile form along the grid lines and control lines. The interpretation of these profiles relate to the phase relation of the gradients combined with the cross-overs and the associated line features. The presentation of the interpretation from the EM profiles is shown in linear anomalous form. The profile scale values of the EM readings are indicated on the plan.

Geophysical Results:

The two principal anomalous features are indicated by the symbols CL1 and CL 2 depicting the general strike and the immediate associated area of formations having increased conductivity over the remaining portion of the grid. The linear anomaly L1 appears to extend toward Ranger Lake from the anomaly CL2. The L2 linear anomaly seems to terminate the CL1 strike to the southeast. The remaining linear anomalies are relatively weak with the exception of the west end of L5.

Summary:

Normally, some of the linear anomalies shown

would be omitted on the basis of being too small to be significant. The renowned low reaction derived from molybdenite reported to be in association with the small quartz veins in this area warranted small readings to be shown. The CL1 and CL2 linear anomalies indicated formation changes that might be the result of dykes.

Conclusion:

The northern portion of CL2 and the apparent area of junction of L1 and L5 with CL2 is the area of maximum anomalous change. The increased line spacing in this area prevents further assessment of the linear anomalous features. It would, however, appear that there may be relationships between eastwest veins and the linear anomalies also the dykes and the CL linear anomalies, as referred to in the J. F. Elwell Report.

Recommendations:

Depending on this report correlating with a geological examination, recommendations for a further

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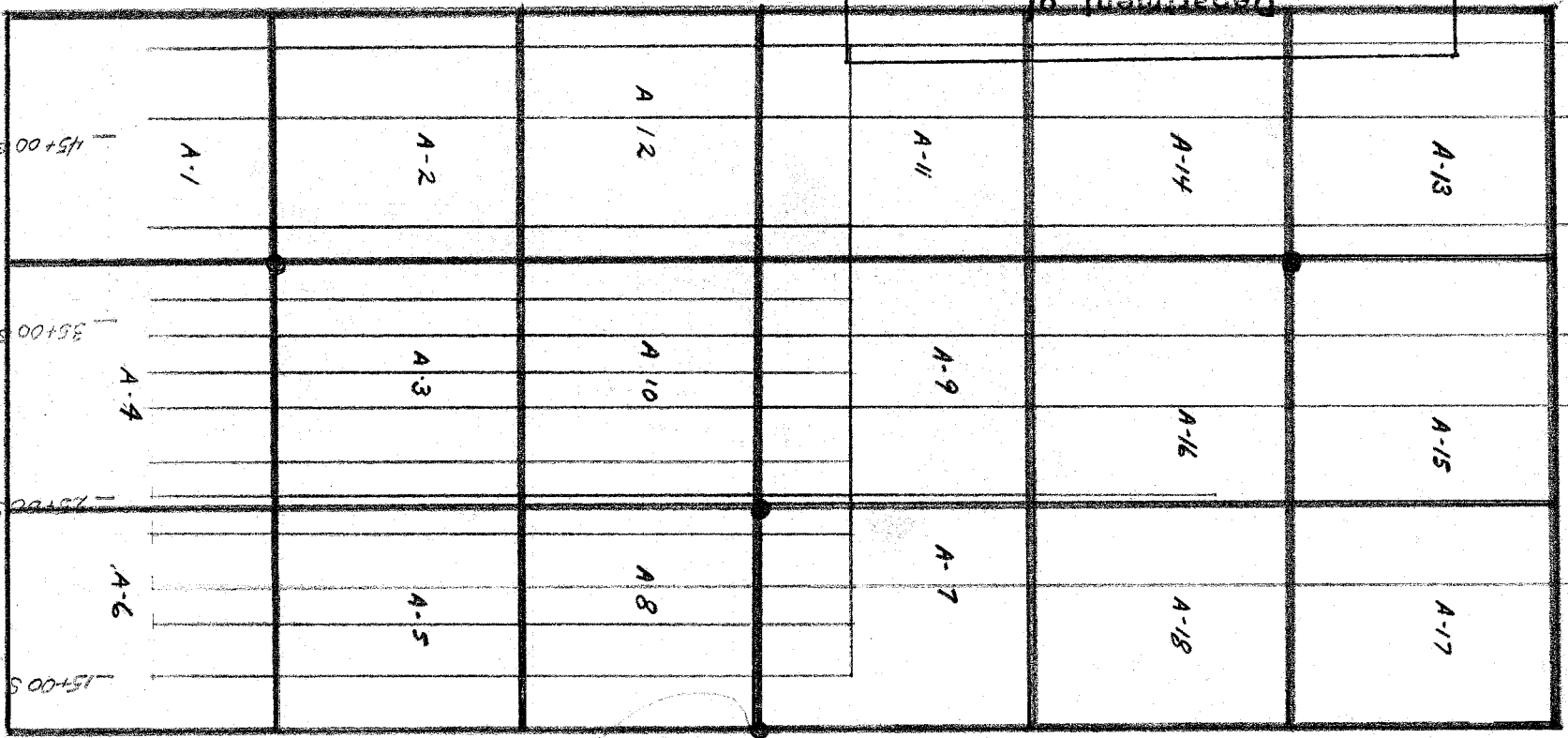
survey of this method of geophysical investigation  
with closer spaced readings should become self-evident.

  
D. L. HINGS, P. ENG.  
GEOPHYSICIST

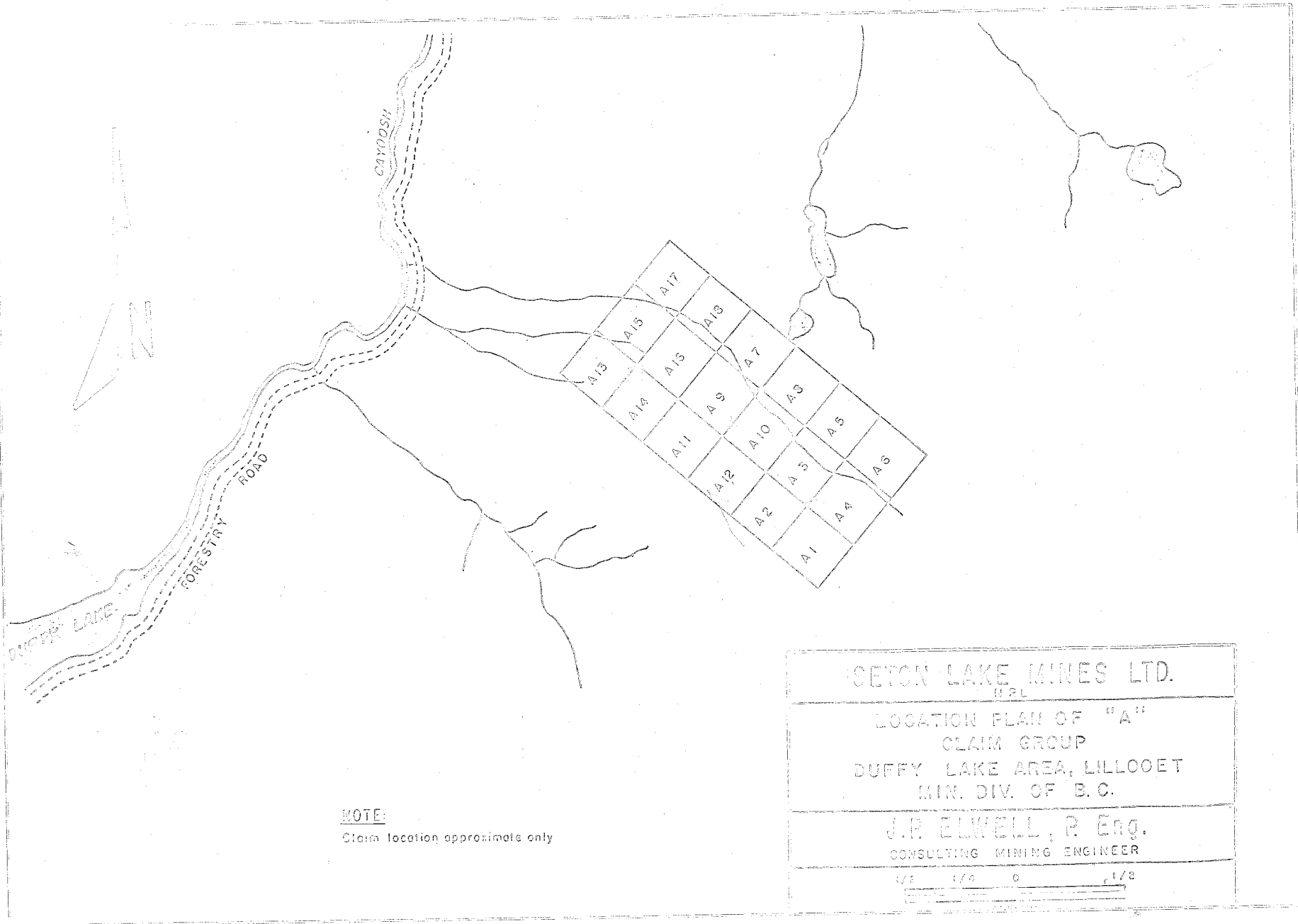
Department of  
**Mines and Petroleum Resources**  
**ASSESSMENT REPORT**  
 NO. **2618** MAP **#2**

Claim also located  
 Section 16, T14N, R10E, S10W  
 2 mi. S. of 1000 ft.  
 1 mile S. of 1000 ft.  
 Geological Survey Units  
 of the West Virginia

File No. 166-111000



15+00 S  
 25+00 S  
 35+00 S  
 45+00 S  
 107+00 E  
 117+00 E  
 127+00 E  
 137+00 E  
 147+00 E  
 157+00 E  
 PARISH LINE



NOTE:  
Claim location approximate only

SETON LAKE MINES LTD. MPL
LOCATION PLAN OF "A" CLAIM GROUP DUFFY LAKE AREA, LILLOOET MIN. DIV. OF B.C.
J.P. ELWELL, P. Eng. CONSULTING MINING ENGINEER
1/2 1/4 0 1/8



25+00E

40+00E

55+00E

70+00E

85+00E

RANGER LAKE

15+00S

25+00S

35+00S

45+00S

55+00S

KLYCEPTOR GEOPHYSICAL SURVEY  
 A GROUP DUFFY LAKE AREA, B.C.  
 SETON LAKE MINES LTD.(NPL)  
 JULY 1970 SCALE: 1" = 200' DWG.NO.: EM-70-1002  
 E.M. PROFILES  
 APPROVED *[Signature]*

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2618 MAP #1

NOTE:-  
 ± | ZERO LINE  
 --- IN-PHASE (1" = 40%)  
 --- QUADRATURE (1" = 40%)  
 ○ LAKE  
 --- CREEK  
 --- LINEAR ANOMALY  
 --- CONDUCTIVE LINEAR ANOMALY

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