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ELC GEOPHYSICS LTD.
REPORT NO. ELC-73-304

LOST CLAIMS GROUP 92I/7W

HIGHLAND VALLEY, B.C. 50° N - 120° W

FOR G.S. ELDRIDGE

MAY 27 to JULY 13, 1973

by D.L. HINGS, P.ENG.

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ELC Geophysics Ltd. Report No. ELC-73-304
Covering the Detail Geophysical Survey of the LOST claims
Highland Valley, B.C. 50° N - 120° W.
For G.S. Eldridge
May 27 to July 13, 1973.

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PLANS

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ELC GEOPHYSICS LTD. REPORT NO. ELC-73-304 COVERING THE DETAIL GEOPHYSICAL SURVEY OF THE LOST CLAIMS GROUP, HIGHLAND VALLEY, B.C. FOR G.S. ELDRIDGE, MAY 27 to JULY 13, 1973. 50° N - 120° W.

Purpose:

The survey consists of combined electomagnetic and magnetometer surface detail measurements taken over a portion of the previous reconnaissance geophysical survey of the LOST group reported in July 1971, ELC No. EM-69-102-71. An area between the coordinates 96 N and 115 N and between base line 0+00 and 16 W was selected for this detail survey to determine the probability of favourable EM and mag anomalies for sulfide deposition.

Instrumentation:

The electromagnetic survey was conducted with a type EM16 Ronka instrument operating on 18.6 KHZ from the US Navy Station NPG located in Arlington, Washington, U S A.

The magnetometer survey was conducted with a vertical field fluxgate self levelling magnetometer model M110 manufactured by Sabre Electronics of Vancouver, B.C.

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Geological Reference:

The Geological Survey of Canada Memoir 249, by W.E. Cockfield.

Location:

The LOST claims group is located on Guichon Creek, 12 miles north of Merritt, B.C. 50° N - 120° W. See Plan ELC-73-304-L.

Personnel:

The survey was conducted by W. Mather, EM operator, K. Pettersen, Mag operator, assisted by E. Wiggins and J. Krygsveld.

Presentation:

The geophysical surveys for EM and Magnetometer are shown on separate plans indicating the grid layout and the instrumentation values in profile form, utilizing the grid line as a reference line for the profiles. Readings were taken at 100 foot intervals and the grid lines were spaced at approximately 100 foot

intervals. The values of the readings are indicated on the respective plans in percentages and gammas.

Anomalous characteristics are also shown on these plans relating to the interpretation of the profile lines.

Magnetometer Results:

See plan ELC-73-304-M.

The linear anomaly M-1 curving around the magnetic low ML-1 are the most prominent features of the survey. The northwest-southeast strike of the M-2 magnetic linear anomaly is associated with a magnetic low ML-2 and extends between two northeast-southwest linear anomalies M-3 and M-5. The third magnetic low ML-3 in the southwest is also accompanied by a north-south linear M-4.

EM Results:

See Plan No. ELC-73-304-EM.

It will be noted the western portion of the survey is the most anomalous, similar to the magnetometer results. The CL-3 conductive linear anomaly follows closely with the magnetic low ML-1 and the conductive linear on the eastern side, CL-2 follows closely with the M-2 in the northern portion. The conductive

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linear CL-1 also follows closely to the magnetic M-3. The L-4 linear in the south is east of the magnetic M-4.

Conclusions:

The area surveyed slopes to the west and in the northwest portion the slope steepens sharply in the vicinity of the M-1 magnetic linear. At the foot of this slope a small creek exists and follows closely to the electromagnetic conductive linear CL-3. These surface influences therefore probably invalidate the geophysical results with reference to the location of sulfides.

The two magnetic linears M-3 and M-5 appear to be faults and the cross fracture M-2 with the associated magnetic low ML-2 and the conductive linear CL-2 appear to be valid. The linear M-4 and associated magnetic low ML-3, are considered to be created by the steep slope to the west in this area.

Summary:

The CL-1 and M-3 linear anomalies suggest some mineralization of this fault, whereas the M-5

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being closely associated with the creek is difficult to determine. The M-2 and CL-2 anomalies are supported by the magnetic low ML-2 and provide the most interesting anomalous group of the survey.

Recommendations:

Due to the coverage existing in this area further development on this property would be in obtaining a geochemical analysis.

D.L. Hings, P. Eng.
Geophysicist

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A statement of costs covering ELC Geophysics Ltd.
Report No. ELC-73-304-
Detail Geophysical Survey of the LOST claims group
Highland Valley Area, B.C. 50° N - 120° W
For G.S. Eldridge
May 27 to July 13, 1973

Field Crew			
W. Mather	7 days @ $60.00	$420.00	
K. Pettersen	7 days @ 60.00	420.00	
E. Wiggins	5 days @ 45.00	225.00	
J. Krygsveld	5 days @ 45.00	225.00	
			1290.00
Transportation			
4 x 4 Truck	7 days @ $12.00	84.00	
650 miles @ 12¢		78.00	
			162.00
Living Costs			
24 mandays @ $10.00			240.00
Instrument and Equipment			
EM16 electromagnetometer	7 dys @ 10.00	70.00	
Magnetometer	7 days 10.00	70.00	
Misc. Supplies	7 days @ 5.00	35.00	
			175.00
Plotting and Drafting			
R.L. Reece	3 days @ $60.00	180.00	
D.A. Cramer	2 days @ $60.00	120.00	
			300.00
Interpretation and Report			
D.L. Hings, P.Eng. 1 1/2 days @ $125.00			187.50
TOTAL COSTS			$ 2354.50

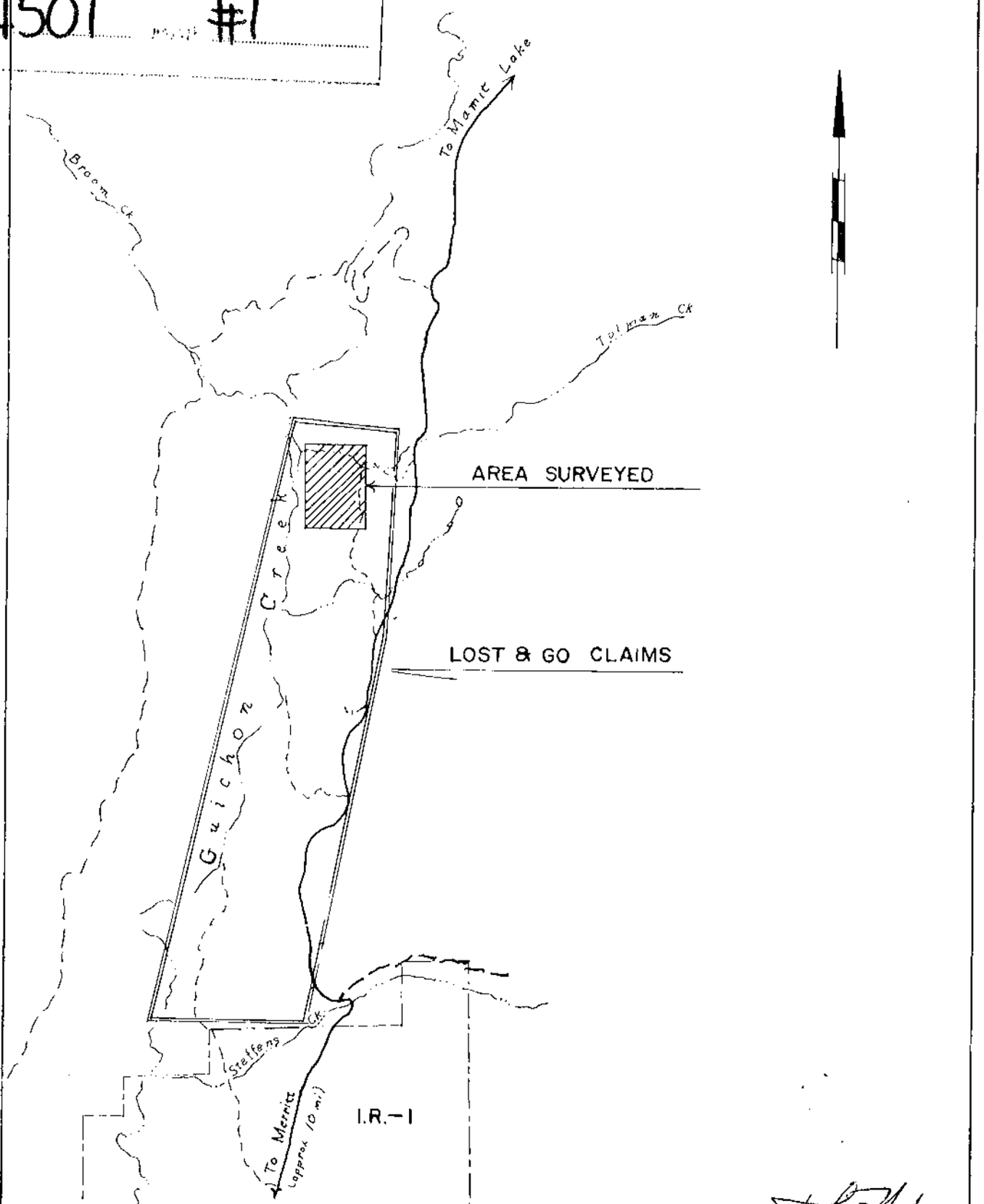
Mines and Petroleum Resources

NO. 4501 #1

LOCATION PLAN

SCALE:—1" = 0.8 MILE

DWG. NO.:—ELC-73-304-L



15+00W

10+00W

5+00W

0+00

L-115+00 N

L-110+00 N

L-105+00N

L-100+00N

L- 96+00N

M-5

ML-2

M-2

M-6

ML-1

LOST-30

POND

M-3

M-1

M-4

LOST-25

LOST-28

ML-3

Department of
Mines and Petroleum Resources
Assessment Report

NO. 4501 #2

NOTE:-

SURVEY LINES & STATIONS

CLAIM POST & CLAIM LINE

ZERO LINE=55,000 Gammas-1"=500 Gammas

ROAD CREEK SWAMP

ML MAGNETIC LOW LINEAR ANOMALY

ELC GEOPHYSICS LTD.

LOST GROUP HIGHLAND VALLEY, B.C.

MR. G.S. ELDRIDGE

JULY 1973 SCALE-1"=100' DWG. NO.- 73-304-M

APPROVED

4501-112

15+00W

10+00W

5+00W

0+00

L-115+00 N

L-110+00 N

L-105+00N

L-100+00N

L- 96+00N

CL-1

CL-2

CL-3

L-4

ELC GEOPHYSICS LTD.

LOST GROUP HIGHLAND VALLEY, B.C.

MR. G.S. ELDRIDGE

JULY 1973 SCALE:-1"=100' DWG. NO.:- 73-304-EM

APPROVED

NOTE:-

- SURVEY LINES & STATIONS
- ZERO LINE
- IN-PHASE (1"=100%)
- QUADRATURE (1"=20%)
- CONDUCTIVE LINEAR ANOMALY
- LINEAR ANOMALY