

ELC GEOPHYSICS LTD. REPORT NO. EM-202-73
COVERING THE JUA CLAIMS GROUP
GUICHON CREEK, MERRITT, B.C. AREA. NICOLA M.D.
FOR G.S. ELDRIDGE
APRIL 23, 1973 to MAY 14, 1973

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PLANS

#1 Anomalous Plan	EM-202-73-A
#2 EM Profile Plan	EM-202-73-P
#3 Location Plan	L-212-72

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4329

Department of
Mines and Technical Resources
ASSESSMENT REPORT
NO. 4329 MAP

elc geophysics ltd.

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ELC GEOPHYSICS LTD. SUPPLEMENTARY REPORT NO. EM-202-73
COVERING THE JUA CLAIMS GROUP
GUICHON CREEK, MERRITT AREA, B.C. NICOLA M.D.
FOR G. S. ELDRIDGE, APRIL 23, 1973. to May 14, 1973.

Purpose:

This is a continuation in part of the previous magnetometer and geochemical survey report No. 202-72. This is a supplement of an EM survey conducted in April 1973. The purpose was to determine areas of increased conductivity by phase anomalies that might occur in the two-component EM readings.

Instrumentation:

The geophysical survey was conducted with a type EM16 Ronka Instrument operating on 18.6 KHZ from the US Navy Station NPG located in Arlington, Washington, USA.

Personnel:

The survey was conducted by Wayne Mather, assisted by E. Wiggins.

...con't...

Location:

See plan No. L-202-72. The claims group is on Guichon Creek approximately 10 miles north of Merritt, B.C. 50°15' N - 120° 50' W.

Geological Reference:

ELC Geophysics Ltd. Report No. 202-72, June 2, 1972.

Report and maps issued by the Geological Survey of Canada (Memoir 249, W.E. Cockfield.)

Presentation:

The conductive areas are shown in contour form, outlining the inphase EM profiles on plan EM-202-73-A.

Results:

The anomalous drawing EM-202-73-A shows seven zones of increased conductivity with a central zone comprised of CZ1, CZ2, CZ3 and CZ4. The central zone has a general north-south strike and is generally westerly of the 0 base line. This coincides closely with a series of geochem anomalies of the previous survey that include the A1 and A2 and A4 of geochem copper enrichment.

...con't...

Additional westerly zones of conductivity include the CZ5 area which coincides closely with the A5 geochemical anomaly and the CZ6 and CZ7 which appear to form a north-south trend in the northwestern portion of the survey area.

There appears to be a fault indicated, F1-E that coincides closely with the magnetometer anomaly F1 in the southeast portion. This fault to the northwest does not coincide with the F1 magnetic anomaly and appears to be more northerly as shown by F2-E.

Summary:

It is interesting to note that the conductive EM results form a dual path with varying spacing, commencing at CZ-1A and B and ending to the north at CZ2 and CZ3. It is also interesting to note that in most cases the EM anomaly is west of any associated geochem anomaly which coincides with what would be expected from a down-slope to the east.

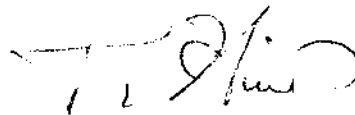
Conclusions:

The EM conductive zone anomalies are not on low

...con't...

ground and therefore are not susceptible to drainage patterns that could exist east of the survey. The EM survey conducted this year coincides remarkably well with the earlier geochem enrichments.

The extension of the EM north-south anomaly (CZ1, CZ2, CZ3 and CZ4) through the length of the survey and the correlation with the geochem enrichment, all east of Guichon Creek, is most encouraging.



D.L. Hings, P.Eng.
Geophysicist

cb

A statement of costs for ELC Geophysics Report No. EM-202-73
 Covering the Jua Claims Group
 Guichon Creek, Merritt, B.C. Area
 For G. S. Eldridge
 April 23, 1973 to May 14, 1973
 50° N - 120° W.

Field Crew

W. Mather	8 days @ 50.00	\$ 400.00	
E. Wiggins	8 days @ 35.00	<u>280.00</u>	
			\$ 680.00

Transportation

4 x 4 Truck	8 days @ 14.00	\$ 112.00	
700 miles @ 12¢		<u>84.00</u>	
			\$ 196.00

Living Costs

16 mandays @ \$10.00	\$ 160.00		\$ 160.00
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Instruments & Equipment

EM 16	8 days @ 10.00	\$ 80.00	
Misc. Supplies	8 days @ 5.00	<u>40.00</u>	
			\$ 120.00

Plotting & Drafting

D.A. Cramer	3 days @ 60.00	\$ 180.00	
R.L. Reece	1 days @ 60.00	<u>60.00</u>	
			\$ 240.00

Interpretation & Report

D.L. Hings P.ENG.			
1 1/2 days @ 125.00		\$ 187.50	
C. Bowman	1/2 days @ 30.00	<u>15.00</u>	
			\$ 202.50

TOTAL COSTS			<u>\$ 1,598.50</u>
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20+00 W

10+00 W

0+00

10+00 E

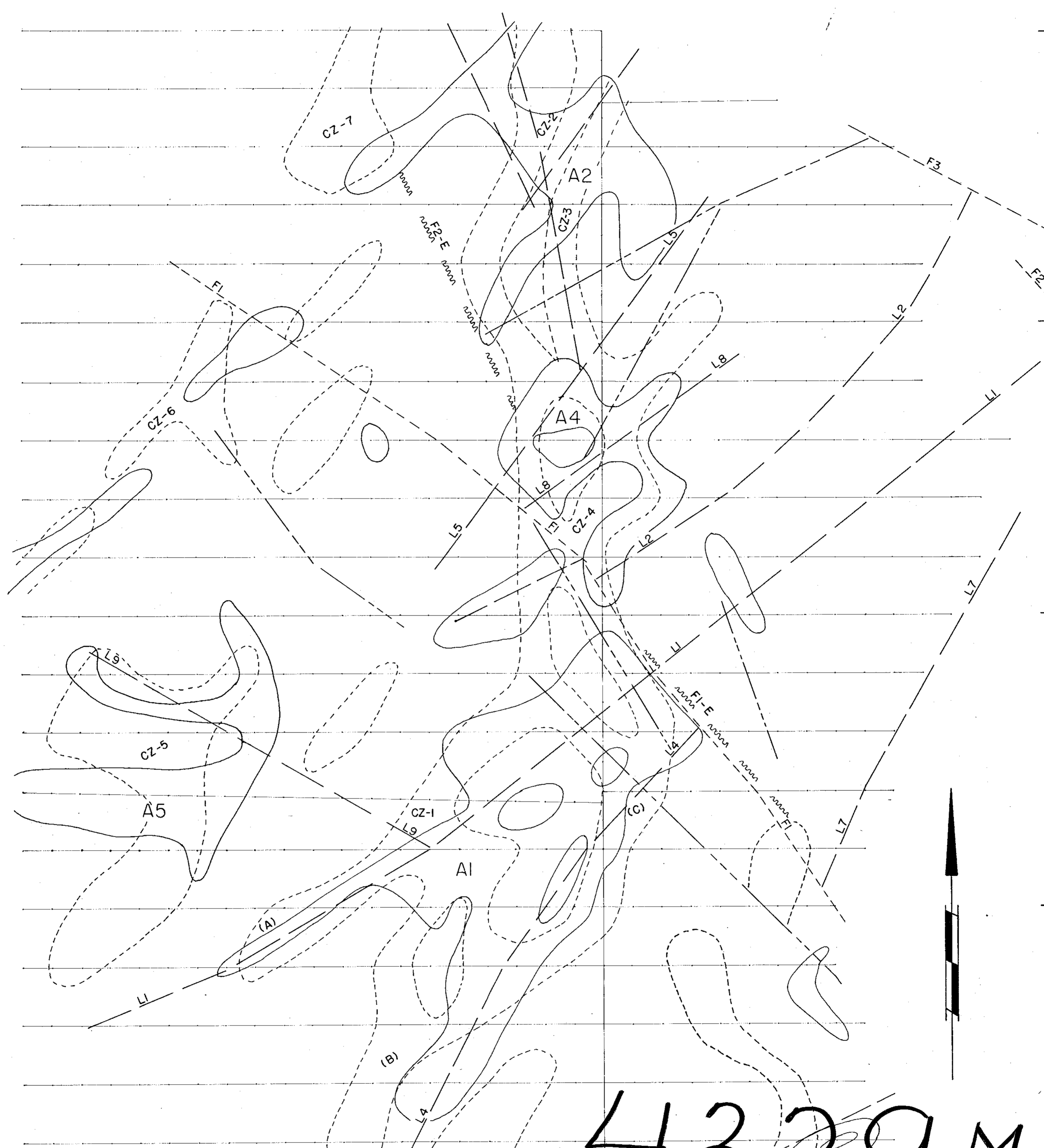
30+00 N

20+00 N

10+00 N

0+00

10+00 S



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4329 M.P. #1

ELC GEOPHYSICS LTD
JUA CLAIMS HIGHLAND VALLEY, B.C.
MR. G.S. ELDRIDGE
MAY 1973 SCALE 1" = 200' DWG. NO. EM-202-73-A

APPROVED *[Signature]*

NOTE:-
 ○ SURVEY LINES & STATIONS
 — GEOCHEM ANOMALY — MAG. LINEAR ANOMALY
 - - - MAG. FAULT — — — EM FAULT
 [Dashed Outline] CONDUCTIVE ZONE [Dotted Line] EM LINEAR ANOMALY

20+00 W

10+00 W

0+00

10+00 E

30+00 N

20+00 N

10+00 N

0+00

10+00 S

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4329 MAP #2

ELC GEOPHYSICS LTD
 JUA CLAIMS HIGHLAND VALLEY, BC

MR. G. S. ELDRIDGE

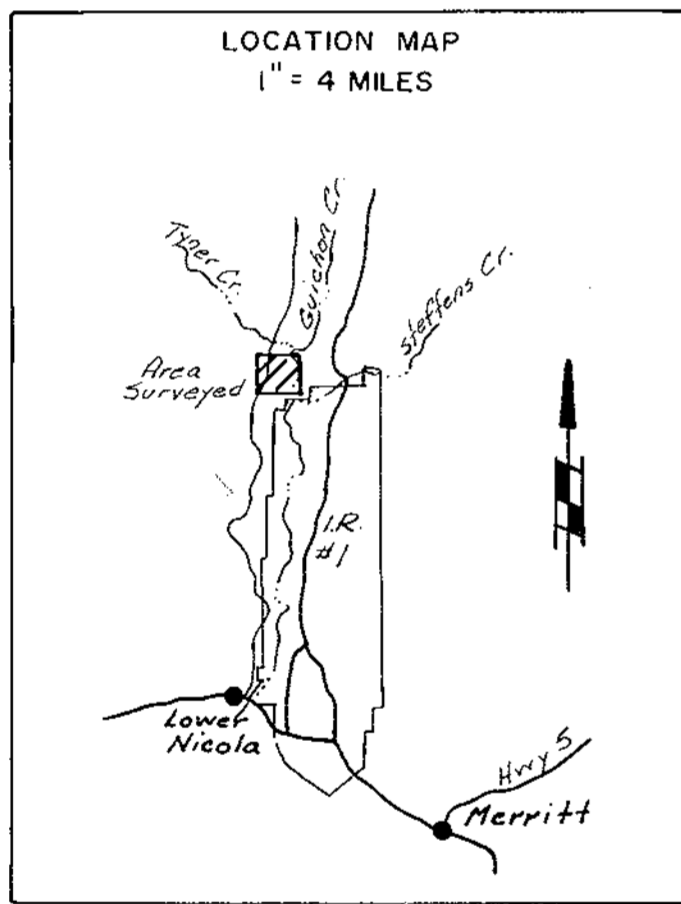
MAY 1973 SCALE 1" = 200' DWG. NO. EM-202-73-P

APPROVED *[Signature]*

NOTE:

- +— SURVEY LINES & STATIONS
- + — ZERO LINE
- IN PHASE (1"=100%)
- - - QUADRATURE (1"=20%)





Department of
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ASSESSMENT REPORT
NO. **4329** MAP **#3**

ELC GEOPHYSICS LTD.
JUA CLAIMS HIGHLAND VALLEY, B.C.
MR. G. S. ELDRIDGE

MAY 1972 SCALE 1" = 400' DWG. NO. -L-202-72

LOCATION PLAN

APPROVED *[Signature]*