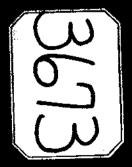
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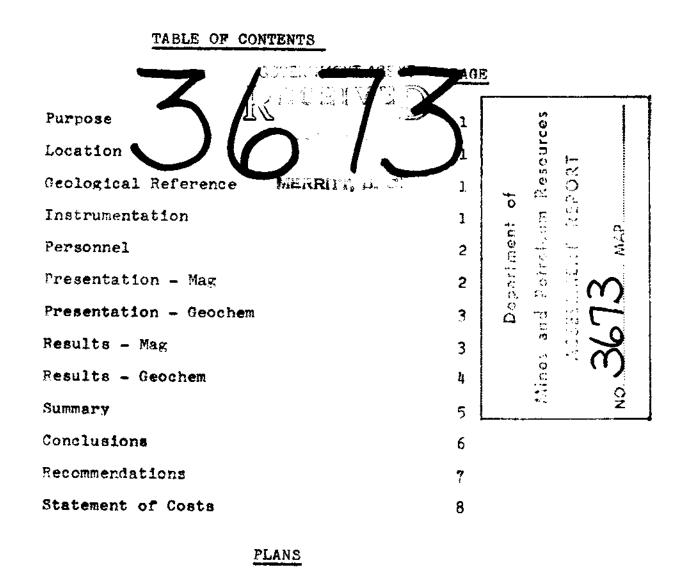
ELC GEOPHYSICS LTD. REPORT NO. 202-72 JUA CLAIMS GROUP MERRITT, B. C. AREA NICOLA M.D. 50° N - 120° W

FOR G. ELDRIDGE APRIL 10, 1972 to JUNE 2, 1972

by D.L. Hings, P. Eng.



This is ELC Geophysics Ltd. Report No. 202-72 Covering the Jua Claims Group Guichon Creek, Merritt, B.C. Area Nicola M.D. For G. Eldridge April 10, 1972 - 50° N - 120° W. to June 2, 1972



#3Magnetometer Profile Plan	M-202-72
# Geochemical Contour Plan	GC-202-72
#  Location Plan	L-202-72

ELC GEOPHYSICS LTD. 250 N. Grosvenor Ave. Burnaby 2, B.C.

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250 NORTH GROSVENOR, VANCOUVER, CANADA TELEPHONE: (604) 298-9619

ELC GEOPHYSICS LTD. REPORT NO. 202-72 COVERING A MAGNETOMETER AND GEOCHEMICAL SURVEY OVER THE JUA CLAIMS GROUP FOR G. ELDRIDGE IN THE NICOLA MINING DIVISION, APRIL 10, 1972. to JUNE 2, 1972.

#### Purpose:

The purpose of the survey was to determine the existance of magnetometer anomalous features combined with geochemical determinations for copper in order to better assess the subsurface geology.

#### 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:

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

## Instrumentation:

The geochemical determinations were obtained

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from the B horizon, first by removal of any overlaying debris, then digging a hole, using a round mouthed spade, approximately 15 inches below the surface. A sample from the hole was packaged using a standard kraft soil bag obtained from Acme Analytical Laboratories Ltd. and the sample determinations were also made by Acme Analytical Loboratories Ltd. 6455 Laurel Street, Burnaby, B.C.

The magnetometer survey was conducted with a Sabre M-100 fluxgate vertical field magnetometer made by Sabre Electronics Ltd. of Vancouver, B.C.

#### Personnel:

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The survey was conducted by field crew -W, Mather, Kaare Pettersen and E. Wiggins. Plotting and mapping by D.A. Cramer, Interpretation by D.L.Hings.

# Presentation - Mag:

The survey is shown on plan M-202-72 with the results plotted in profile form along the eastwest grid lines and control lines. Approximately 18.7 miles of profile are shown with the values as indicated on the plan.

## Presentation - Geochem:

Refer to plan No. GC-202-72, the figures shown on the grid indicate the values in PPM of CU of deperminations taken at the locations indicated. The contour value of 70 PPM is shown against a background in the vicinity of 35 PPM.

#### Results - Mag:

The most anomalous features follow the linear strike indicated by Fl to the central control line and extend very closely to the control line to the north. A second group of anomalies occurs on the eastern portion of the survey extending northward along L3. A prominent linear anomaly L1 extends from the southwest to the northeast of the property and is closely paralleled by L2 in the northern portion. In the south L4 has a northerly trend and terminates apparently on the fault Fl. A similar striking linear anomaly is L5 that crosses the central baseline to the northeast through the anomalous zone. L6 has a nearly north-south strike and is the principal magnetic feature within this anomalous area.

The eastern anomalous area is made up of

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linear strikes indicated as F2, F3, F4 and F5, mostly crossing the L3 northeast, southwest anomaly.

#### Results - Geochem:

The contours indicate values of the determinations having more that 70 PPM of CU with the largest geochem anomaly indicated as Al. This anomaly coincides with the magnetic anomalies Ll, L4 and Fl. The Al anomaly generally speaking has more sufface coverage than the other principal anomalies.

A2 geochem anomaly in the north appears to be associated with the magnetic linear anomalies L5 and L6 but does not conform directly with these strikes.

The A3 geochem anomaly to the east covers a relatively large area along the western slope of the valley, with the strike features localowing closely to the linear magnetic anomalies L3, F2, F4 and F5.

The A4 geochem anomaly between A1 and A2 is part of the eastern slope of the valley with some outcropping occuring in A2 and A4.

The magnetic linear anomalies L2, L5 and L8 appear to be associated with the geochem anomaly

A4 with the southwest boundary on F1. The A5 geochem anomaly to the west appears to be associated with the magnetic linear L9. These anomalies are in a well covered area.

The geochem anomalies A6 and A7 are in the vicinity of the creek and have normal valley coverage. The geochem anomaly A6 aligns with the magnetic anomaly L2 and F3. The geochem anomaly A7 may be associated with the magnetic linear L7.

### Summary:

There is reasonably good correlation of the magnetic linear anomalies and the geochem contour anomalies.

The western ridge of the valuey extends north and south close to the 0 base lins, and the A2 and A4 geochem anomalies. It is believed the reduced coverage on this ridge has to some extent increased the magnetic anomalies. The A1 geochem anomaly extends into more level terrain to the southwest, and could be associated with the A5 anomaly along the strike of the magnetic L9 linear anomaly.

The magnetic anomaly F1 appears to be a fault between A1 and A4. This also suggests block faulting over the areas of A2 and A4.

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The A3 eastern anomaly on the west slope also indicates block faulting. The copper values have a lower average in this area although the anomaly is quite extensive. The A6, A7 and A8 anomalies are all in the valley with A6 and A7 anomalies being closely associated with the Guichon Creek. The magnetic anomaly L7 follows very closely to the Guichon Creek course which changes to a northerly course as it enters the A7 geochem anomaly.

# Conclusions:

The magnetic anomaly Ll southwest of the Fl anomaly, appears to be associated with the geochem enrichment of Al. L4 magnetic anomaly also appears to contribute to the Al enrichment.

The A4 and A6 enrichment may be associated with the magnetic anomaly L2, north and east of the F1 magnetic anomaly. Both the geochem anomalies A2 and A3 are associated with block faulting and probably include A8. It is quite apparent that considerable shearing is evident in the areas of reduced overburden and possibly extends further into the valley and to the southwest.

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# Recommendations:

The average background geochem readings are high by nearly 20 PPM of CU. The correlation between the magnetic linear anomalies indicates considerable fracturing over the geochem anomalous areas. These results most certainly warrant further development of this property.

D.L.Hings. P. Ang. Geophysicist.

A statement of Costs for ELC Geophysic Covering the Jua Claims Group Guichon Creek, Merritt, B.C. Area, Nic For G. Eldridge April 10, 1972 to June 2, 1972 50° N - 120° W.	-	No.202-72
Survey Crew:		
W. Mather 18 Cays @ 40.00 K. Pettersen 17 days @ 40.00 E. Wiggins 15 days @ 30.00	720.00 680.00 <b>450.0</b> 0	1850.00
Transportation:		
4 x 4 truck 16 days @ 18.00 900 miles @ 10	288.00 90.00	378.00
Living Costs		
Motel 14 days @ 16.00 Food 47 man days @ 7.50	224.00 352.50	576.50
Instruments & Equipment		
Magnetometer 16 days @ 10.00 Misc. Supplies 16 days @ 5.00	160.00 80.00	240.00
Data Processing & Drafting		
R.L. Reece 5 days @ 60.00 D.A. Cramer 4 days @ 60.00	300.00 240.00	540.00
Interpretation & Report		
D.L. Hings, P. Eng. 3 days @ 150.00	450.00	450.00
Geochemical Analysis		
930 Samples é 1.00		930.00
Total		\$ 4964.50

June, 1971

# ACME ANALYTICAL LABORATORIES LTD.

## Methods of Analysis

A .50 gram of - 80 mesh sample is digested with mixed concentrated nitric acid and perchloric acid until all the organices are decomposed. This solution is diluted with water to 10.0 mls. and determined by Perkin-Elmer 305 Atomic Absorption Spectrophotometer for molybdenum, copper, nickle, and zinc in parts per million, iron and manganese in percent. Silver is determined with a Deuterium Background Corrector to .1 parts per million.

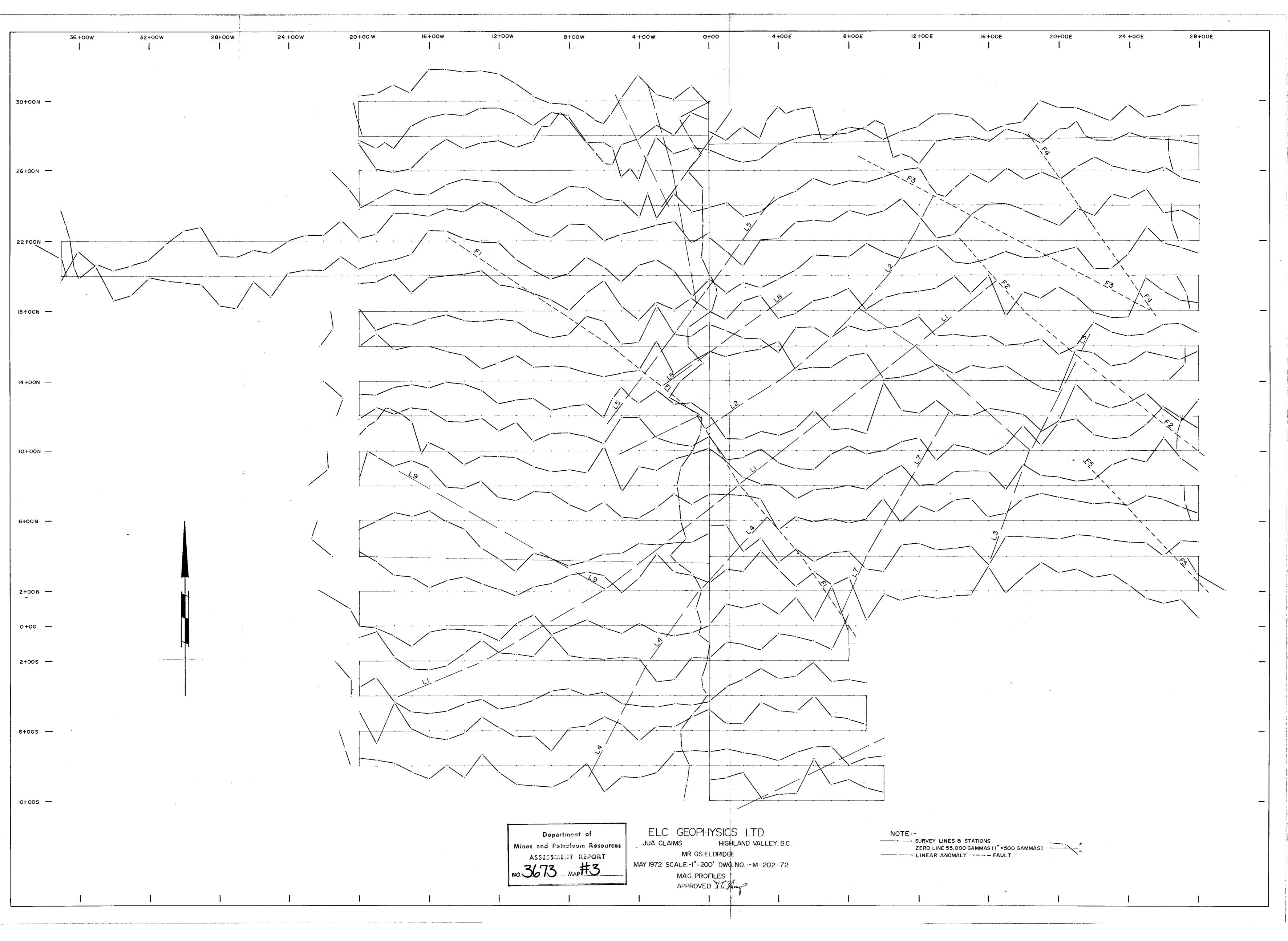
Tungsten, tin, and arsenic are determined colorimetric techniques.

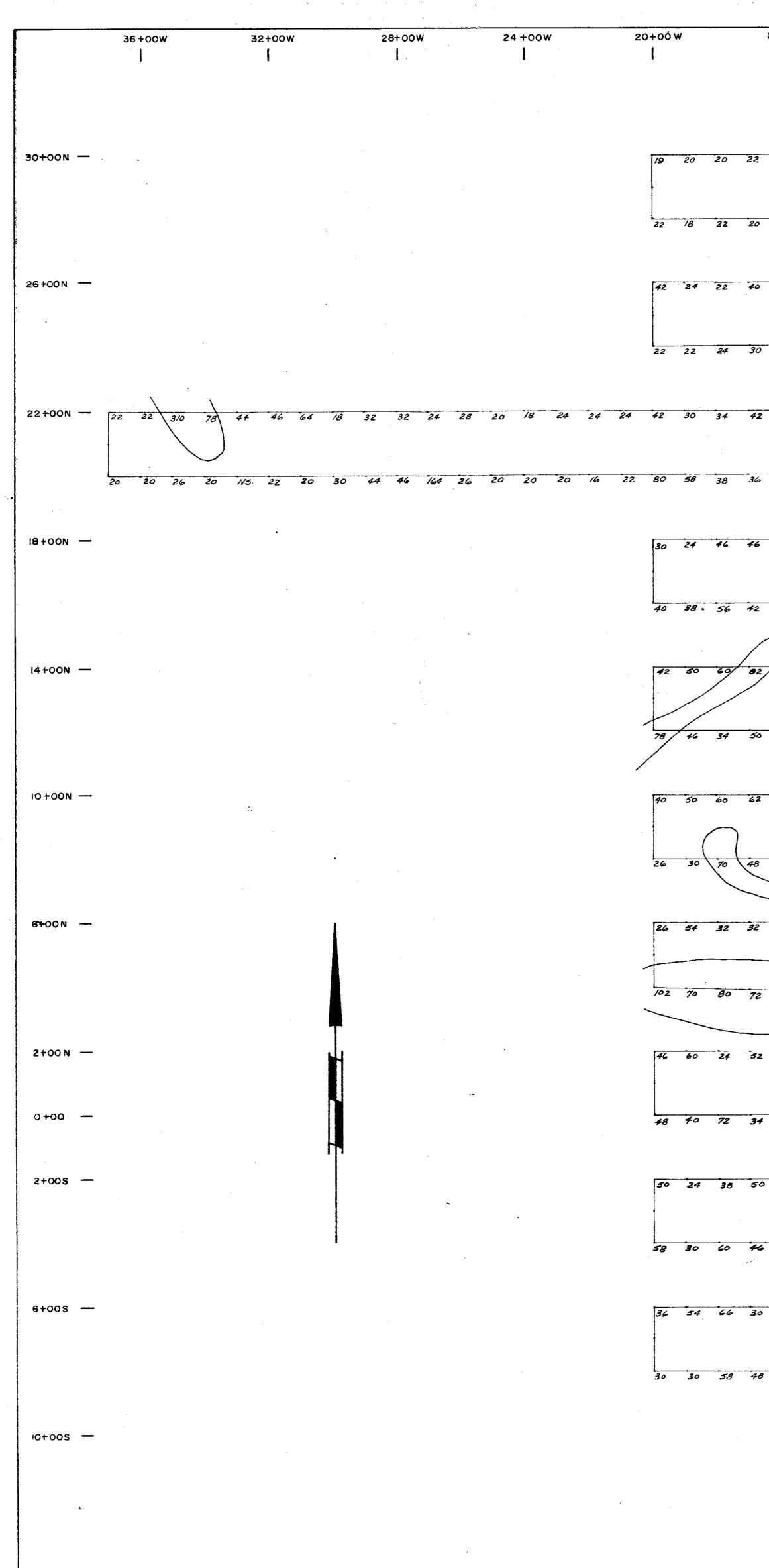
Fluorine is determined by Specfic Ion electrode.

All samples are determined with internal or U.S.G.S. standards.

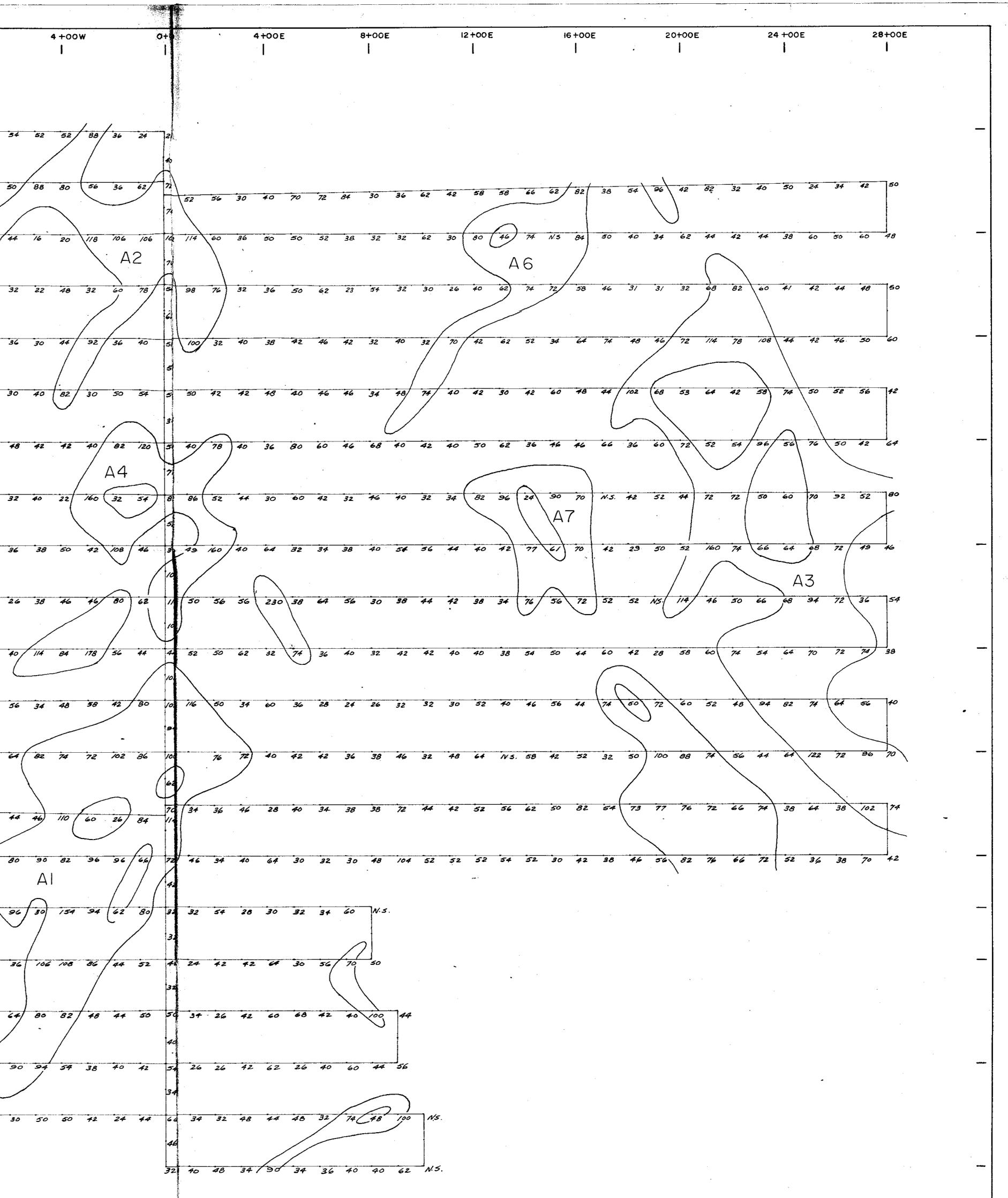
Standard deviations for Atomic Absorption for geochemical assay are between 5 to 10%.

Standard deviations for ore assay are between .2 to 2%.





8+00E 4+00E 16+00W 12+00W 8+00W 4 +00W 0+1 19 20 20 22 44 40 52 56 58 42 41 42 44 46 54 52 52 88 36 24 22 18 22 20 40 42 56 50 62 60 44 30 52 36 50 88 80 56 36 62 42 24 22 40 48 60 60 44 56 32 58 20 146 94 44 16 20 118 106 106 10 114 60 36 50 52 38 32 32 62 30 80 46 74 NS 84 50 40 34 62 44 42 44 38 60 50 60 48 Α2 22 22 24 30 54 54 56 62 44 56 44 60 46 16 32 22 48 32 60 78 5 98 76 32 36 50 62 23 54 32 30 26 40 62 74 72 58 46 31 31 32 68 82 60 41 42 44 48 50 20 20 26 20 NS. 22 20 30 44 46 164 26 20 20 20 16 22 80 58 38 36 60 46 46 52 88 76 58 56 22 62 30 40 82 30 42 42 48 40 46 46 34 48 74 40 42 30 42 60 48 44 102 68 53 64 42 58 74 50 52 56 42 30 24 46 46 62 62 74/ 34 42 50 40 38. 56 42 62 48 60 52 30 46 44 42 108 32 32 40 22 160 (32 54) 8 86 52 44 30 60 42 32 46 40 32 34 (82 96 24) 90 70 N.S. 42 52 44 72 72 50 60 70 92 52 42 50 60 82 52 48 50 70 50 44 44 50 42 60 36 38 50 42 108 46 3 49 160 40 64 32 34 38 40 54 56 44 40 42 77 61 70 42 29 50 52 160 74 66 64 68 72 49 46 78 46 34 50 56 58 40 50 42 42 42 40 40 36 26 38 46 46 80 62 11 50 56 56 230 38 64 56 30 38 44 42 38 34 76 56 72 52 52 NS 114 46 50 66 68 94 72 36 54 56 68 40 / 114 84 178 56 44 34 48 58 42 80 30 24 42 44 42 32 66 70 42 54 44 46 32 52 64 82 74 72 102 86 40 52 52 80 42 Α5 102 70 80 72 90 74 82 72 34 28 54 36 44 46) 110 60 26 84 90 82 60 24 52 60 58 82 34 36 48 42 100 30 40 64 96 30 154 94 62 80 32 32 54 28 30 32 34 60 N.S 48 40 72 34 50 51 36 30 51 30/ 24 38 50 32 36 36 70 54 52 42 74 60 42 36 106 108 86 44 52 48 24 42 42 64 30 56 70 58 30 60 46 30 50 36 36 40 64 42 54 46 38 64 80 82 48 44 50 54 34 26 42 60 68 42 40 100 44 40 36 30 56 72 90 94 54 38 40 42 54 26 26 42 62 26 40 60 44 56 30 30 58 48 24 40 20 36 46 34 52 46 44 42 30 50 50 42 24 44 64 34 32 48 44 48 32 40 48 34 / 90 34 36 40 40 62 N.S. ELC GEOPHYSICS LTD Department of HIGHLAND VALLEY, B.C JUA CLAIMS Mines and Petroleum Resources MR. G.S. ELDRIDGE ASSESSMENT REPORT MAY 1972 SCALE-1"=200' DWG.NO. -GC-202-72 NO 3673 MAP #2 GEOCHEM PLAN APPROVED & Amp



- SURVEY LINES & STATIONS 70 PPM CU CONTOUR PPM CU

