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ELC GEOPHYSICAL REPORT
NO. M-GC-127-71
TOP & POT CLAIMS GROUPS

CHUCHI LAKE AREA
NORTH OF FORT ST. JAMES B. C.
54° N - 124° W
FOR PLATEAU METALS LTD.
SEPT. 8, 1971 to OCT. 25, 1971

by D.L.Hings, P. Eng.

93N/2E

3410



geophysics ltd.

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

December 23, 1971

R.H. McCrimmon
Chief Gold Commissioner
Department of Mines & Petroleum Resources
Victoria, B.C.

File No. 166 - Omineca

14425

Dear Sir:

Topo Rpt

Re your letter December 16th.

Report No. GC-127A-71-R the dates the geochemical sampling
was done were June 22, 1971 to August 4th, 1971.

Report No. M-GC-127-71, re diurnal variation:

Determinations are made for magnetic variations
that exceed the diurnal changes by routine measurements
at standard locations established in the vicinity of the
survey. Readings are taken first thing in the A.M. period
again at noon and upon completion of the afternoon tra-
verse. Whenever the variations exceed 10% of the anomalous
features common to the area the survey is rerun over the
portions so affected.

Both Reports: Geochemical Sample .50 grams of -80 mesh.
Digestion HMO3+HClO4. Determination is atomic absorption.

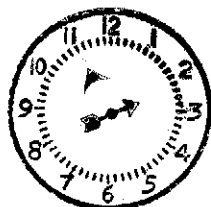
Hoping this is the information required.

Yours very truly,

[Signature]
D.L.Hings, P. Eng.

DEC 29 '71 AM

DLH/cb



DEPT. OF MINES
AND PETROLEUM RESOURCES

Table with columns: NAME, DATE, INITIAL. Rows include D.M., G.G.C., C.G., D.C.G.C., G.C., AGCTS., C.M.B., C.I., C.A., R.T., C.P.E.

This is Geophysical Report No. M-GC-127-71
 For Plateau Metals Ltd.
 POT and TOP Claims Groups
 Chuchi Lake Area, North of Fort St. James, B.C.
 54°12' N - 124° 40' W **93 N / 2 E**
 September 8, 1971 to October 25, 1971

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PLANS

- A** Mag Detail Plan M-127-71-PC
- V** Geochem Detail Plan GC-127-71-C
- 3** Location Plan M-GC-127-71-L

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

298-9619

Department of
 Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **3410** MAP

elc geophysics ltd.

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

ELC GEOPHYSICAL REPORT NO. M-GC-127-71 COVERING THE
TOP AND POT CLAIMS GROUPS, CHUCHI LAKE AREA, NORTH OF
FORT ST. JAMES, B.C. 54°12' N, 124°40' W. FOR PLATEAU
METALS LTD. SEPTEMBER 8, 1971 to OCTOBER 25, 1971.

Purpose:

The report covers magnetometer and geochem surveys over a detailed grid traverse on the northern portion of a previous larger reconnaissance survey of Plateau Metals Ltd. Chuchi Lake property as reported by A.F. Roberts, P.Eng., August 18, 1971.

Presentation:

On the recommendation of Mr. Roberts both magnetometer and geochemical determinations were made along the grid lines at 100 foot spacing wherever possible. The magnetometer results are shown on the drawing No. M-127-71-PC. The geochemical results are shown on the plan GC-127-71-C. The survey indicates that sufficient detail data was obtained to permit close correlation between the magnetometer and the geochem anomalies.

The prominent magnetic low that follows closely throughout the southern portion of the survey

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is chiefly over a large swamp area. It has a strike indicating it is part of a prominent northwest-south east tectonic feature. The most anomalous portion of the survey is north of this feature. There are ten principal geochemical contoured anomalies with the determination values varying between 900 and 100 PPM of copper against an average background of approximately 30 PPM. Molybdenum determinations of the more anomalous areas had a background of 2 PPM and ranging up to 15 PPM.

The magnetometer anomalies are shown in both profile and contour forms to more definitely indicate the strike of some of the deeper formations. A contour line is shown on the 56,200 gamma value, to indicate the centre of the magnetic low. The other contour values are at 56,500, 57,000 and 57,500. The maximum change throughout the survey did not exceed 2000 gammas. Linear features were determined across grid lines showing similar gradient features of the profiles. As it turned out the northern 57,000 gamma profile line followed closely to the northern edge of pertinent anomalies.

Instrumentation:

The magnetometer survey was conducted with a vertical field fluxgate self levelling magnetometer

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made by Sabre Electronics Ltd., Vancouver, B.C.

Geochemical Sampling:

The samples were taken from the "B" horizon by first removing any overlaying debris, then digging a hole, using a round mouthed spade, to a depth of approximately 15 inches below the surface. A sample from the hole was packaged using a standard kraft soil bag obtained from TSL Laboratories Ltd. 325 Howe St. Vancouver, B.C. The sample determinations were made by Acme Analytical Laboratories Ltd., 6455 Laurel St. Burnaby, B.C.

Location:

The TOP and POT claims groups are located on the north shore of Chuchi Lake immediately east of Klawli Creek, 12 miles from the road on the east end of the lake, in the Omenica Mining District. 70 miles north of Fort St. James, B.C. $54^{\circ}12' N - 124^{\circ}40' W$.

Geological Reference:

GSC Map 876A Manson Creek.

A.F. Roberts report of the Chuchi Lake property, Aug. 18, 1971.

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Personnel:

The survey was conducted under the direction of Wayne Mather, assisted by K. Lovang, G. Wells and P. Savage. 32 line miles of magnetometer survey were covered. 21.5 line miles of geochemical survey including 1,084 determinations.

Magnetometer Results:

Four apparent faults intersect the anomalies with an average strike of north 75° east. Between these faults linear anomalies in the northwestern portion of the survey have an average strike from 120° to 130° east of north. This applies to the linear anomalies L1, L2, L2A and L3. The eastern half of the survey is less consistent and shows a predominance of shorter linear anomalies having an average strike in the vicinity of 150° east of north. This strike applies to the linear anomalies L5, L8, L9, L13, L11 and L12.

The division line between the change in the strike pattern appears to occur along the linear anomaly L4 that strikes nearly north and south. The strongest single anomalous profile and associated contour in the northern part of the survey is attributed

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to a ridge that parallels the swamp area.

The only significant linear anomalies south of the swamp area are in the east, indicated by L10 and L13.

Geochemical And Magnetometer Correlation:

The prominent GC1 geochem anomaly appears to be associated with the magnetic linear anomaly L1 on the north and upgrade side. It would appear that this anomaly may be more extensive on line 32 W where samples could not be taken. The continuation of the GC1 anomaly to the northwest is not supported by the magnetometer survey. The continuation of the GC1 to the east follows closely to the L1 anomaly to the region of the apparent fault F1.

The GC2 geochem anomaly shows higher values than GC1 and may be related to the L2A magnetometer anomaly.

The apparent fault F3 appears to terminate GC2 to the east but does not quite align with a narrowing of GC3 in the north. The western extension of GC3 appears to coincide with the magnetic linear anomaly L2. There does not appear to be any anomalous features

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on the north end of line 12 E in the magnetometer survey that support the GC3 geochem anomaly.

The L3 linear anomaly on the south side of GC3 does correlate with the GC3 extension. The drainage patterns that follow closely to the line 8 and 12 east may be contributing to the enrichment of the GC3 anomaly.

The GC4 anomaly correlates with the linear anomalies L5 and L7, but appears to terminate in the east on the fault F4.

The GC5 geochem anomaly appears to closely associate with the drainage pattern on the north end of line 36 east although the small linear anomaly L12 is within the geochem anomaly. The southern portion of the GC5 geochem anomaly on line 36 east shows the highest concentration of enrichment for both CU and MO of the survey. This is of particular interest in view of the magnetic linear L6 and the possible extension into the swamp in the vicinity of Little Tchentlo Lake.

The GC6 anomalous zone aligns along the strike of L11 magnetic linear anomaly and also includes

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L8 that aligns with the small geochem GC7 enrichment. The small GC8 enrichment in the northwest central portion of the survey does not correlate with any magnetometer anomalies. The small GC9 enrichment appears to be closely associated with the drainage pattern near the camp.

The GC10 anomaly in the southeast portion of the survey follows closely the L10 linear magnetic anomaly with a strike approximately 100° east of north.

Summary:

The geochem enrichment shows higher values in the eastern portion of the survey however the areas of enrichment appear to be more extensive in the northwestern portion. The linear correlation of the magnetic anomalies with the geochem areas of enrichment should in many cases give a target for geological investigation. One of the more interesting features is the possible relation of the GC3 anomaly extension towards the Little Tchentlo Lake. This would include the enrichment at the intersecting of L3, L4 and L5 magnetic linear anomalies.

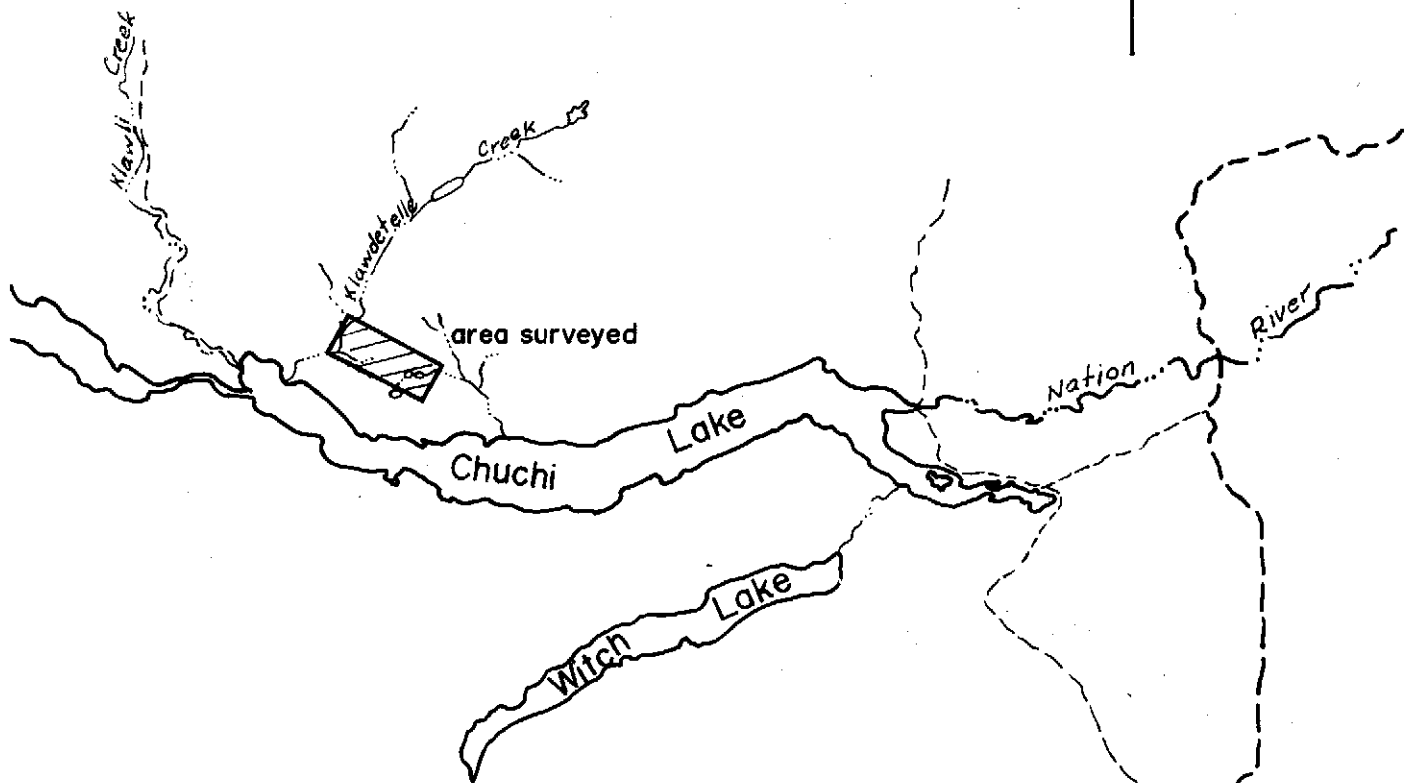
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PLATEAU METALS LTD.

Location Plan

scale 1" = 4 Miles

dwg.no. M-GC-127-71-L



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 3410 MAP #3

To Ft. St. James
47 miles

A statement of costs for ELC Geophysical Survey Report
 No. M-GC-127-71 covering the TOP and POT claims Groups
 North of Fort St. James, Chuchi Lake Area, B.C. for
 Plateau Metals Ltd. Sept. 8, 1971 to Oct. 25, 1971

Survey Crew:

K. Lovang	30 days @ 45.00	\$ 1350.00	
W. Mather	30 days @ 45.00	1350.00	
G. Wells	30 days @ 30.00	900.00	
P. Savage	30 days @ 30.00	900.00	
C. Bohn	20 days @ 20.00	<u>400.00</u>	
			\$ 4900.00

Transportation

1 - 4x4 Truck	@ \$201.00		
1 - 4x4 Truck	@ <u>617.00</u>		818.00

Living Costs

Food		547.37	
Motel		100.63	
Camp Supplies		<u>510.04</u>	1158.04

Instruments

1 Magnetometer	30 days @ 12.00		360.00
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Data Processing and Drafting

R.L. Reece	15 days @ 60.00	900.00	
D.A. Cramer	9 days @ 60.00	<u>540.00</u>	
			1440.00

Interpretation and Report

D.L. Hings, P. Eng.			
5 days @ 125.00			625.00

ELC GEOPHYSICS TOTAL			\$ 9301.04
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COSTS SUPPLIED BY PLATEAU METALS LTD.

Geochem determinations - 1086 samples		950.25	
Helicopter Costs		<u>1718.00</u>	<u>2668.25</u>
GRAND TOTAL			\$ <u>11969.29</u>

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *5th*
day of *November*, 1971, A.D. *W J James*


A. Jeanette
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

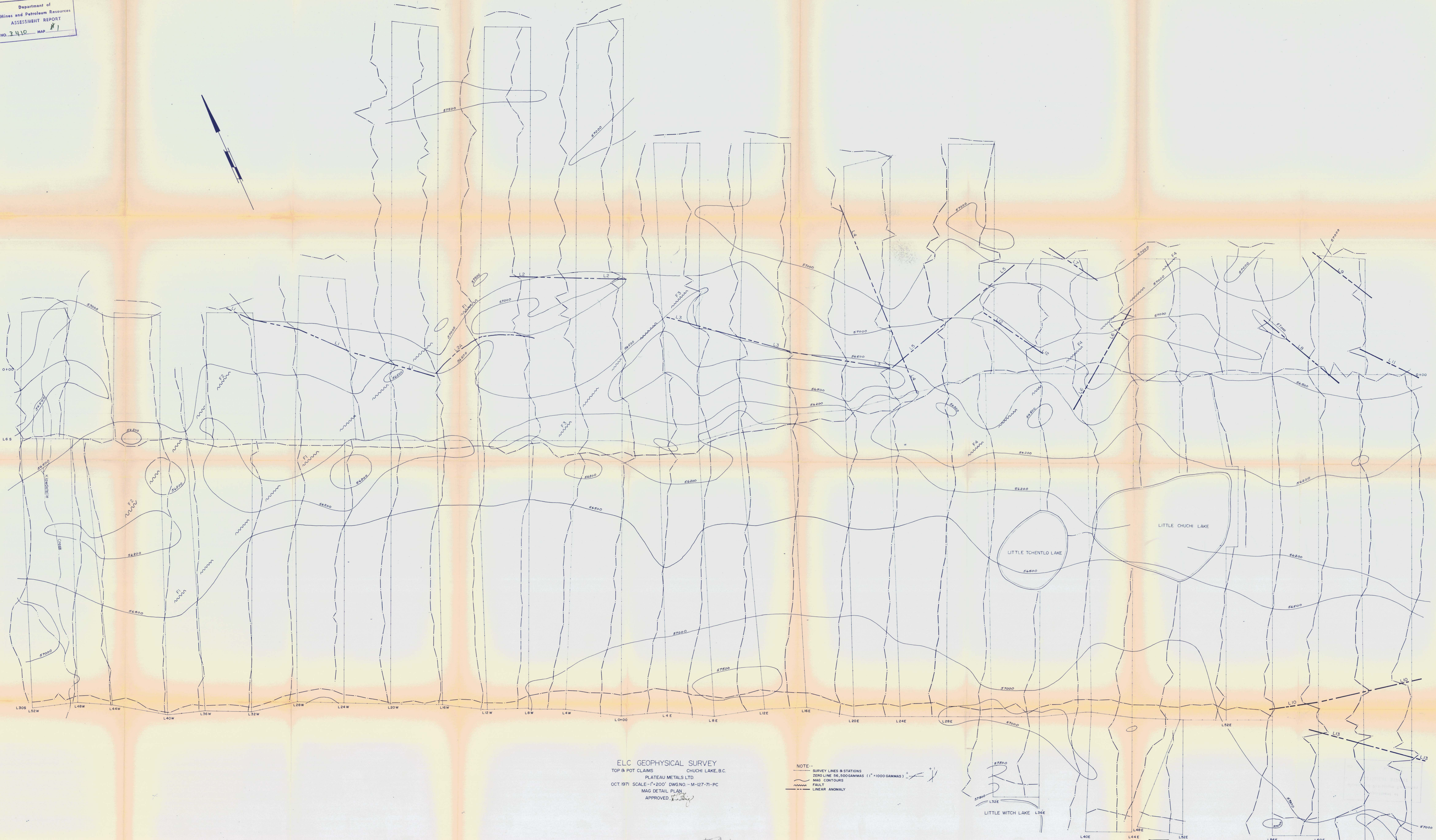
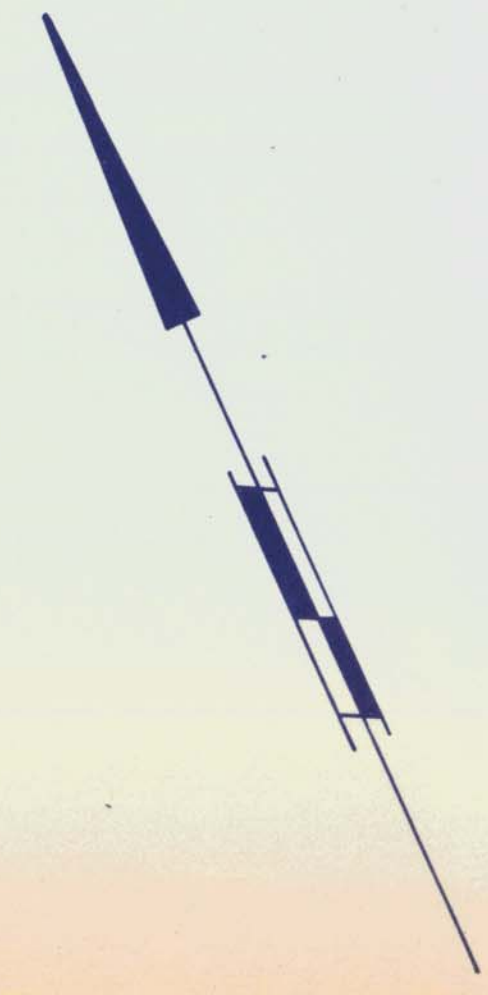
SUB-MINING RECORDER

Conclusions:

Further work is warranted to determine the extent of the GC4 enrichment north of the termination of lines 36 and 40 east. Geological investigation should be made on specific linear targets deemed to be valid sources of enrichment to the geochemical anomalies in accordance with the present surface geological findings.

The surface coverage in the western section is more suited to taking geochemical determinations than in the east. This resulted in better coverage of the western areas, however the higher percentage of enriched determinations and higher degree of enrichment in the east strongly supports the possibility of a major anomaly existing in the vicinity of Little Tchentlo Lake.


D.L. Hings, P. Eng.
Geophysicist

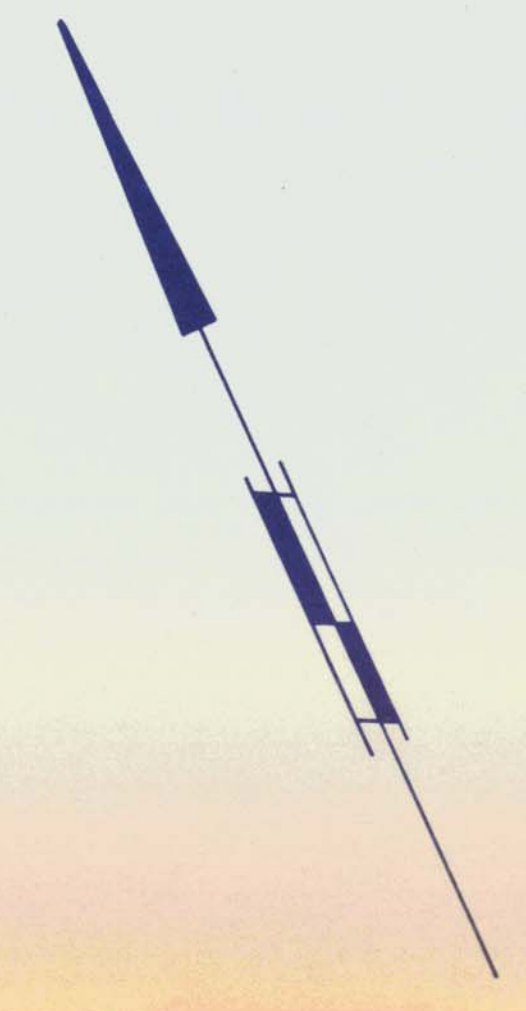


ELC GEOPHYSICAL SURVEY
TOP & POT CLAIMS CHUCHI LAKE, B.C.
PLATEAU METALS LTD.
OCT/971 SCALE=1"=200' DWG NO. - M-127-71-PC
MAG DETAIL PLAN
APPROVED *[Signature]*

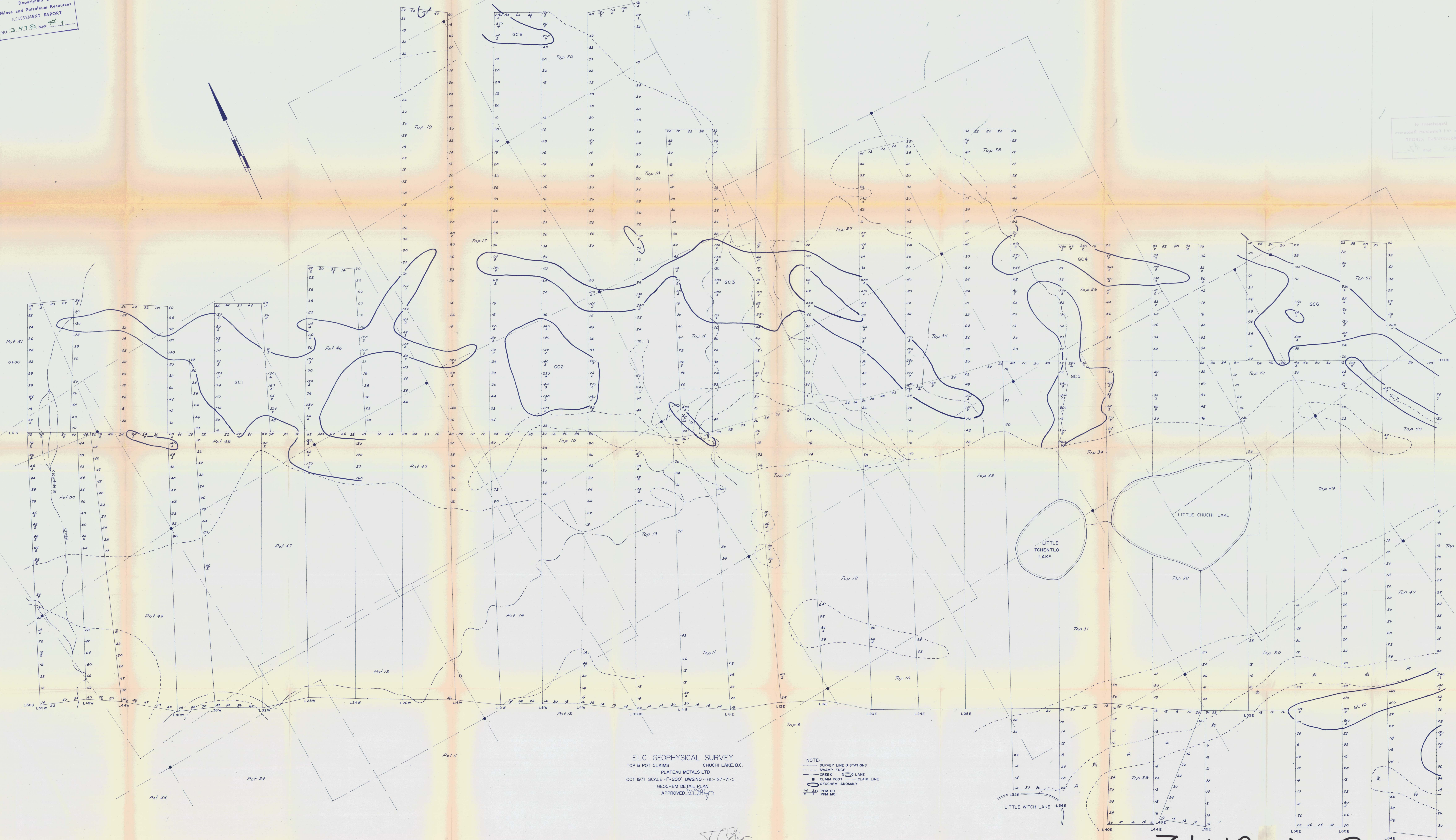
NOTE:
- SURVEY LINES & STATIONS
- ZERO LINE 56,500 GAMMAS (1" = 1000 GAMMAS)
- MAG CONTOURS
- FAULT
- LINEAR ANOMALY

[Handwritten initials]

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In testimony
produced pursuant to
Inquiry 11/10/2004
Page 2 of 2



ELC GEOPHYSICAL SURVEY
TOP & POT CLAIMS CHUCHI LAKE, B.C.
PLATEAU METALS LTD
OCT. 1971 SCALE - 1"=200' DWG NO. - GC-127-71-C
GEOCHEM DETAIL PLAN
APPROVED *[Signature]*

NOTE -
--- SURVEY LINE & STATIONS
--- SWAMP EDGE
--- CREEK
--- LAKE
--- CLAIM POST --- CLAIM LINE
--- GEOCHEM ANOMALY
--- 50' 50" PPM CU
--- 50' 50" PPM MO

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