

ELC GEOCHEM REPORT NO. 71-119-M-GC  
SUPPLEMENTARY TO REPORT NO. 71-119-M  
KODIAK AND AG CLAIMS GROUP  
126° W - 90° N

FOR NEW PRIVATEER MINES LTD. (NPL)

ZEBALLOS, B.C.

MAY 28th, 1971

*9/2/71*

by D.L. Hings, P. ENG

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This is Report No. 71-119-M-GC  
for NEW PRIVATEER MINES LTD. (NPL)  
Kodiak and Ag Claims Groups  
Zeballos, B.C.  
May 28th, 1971

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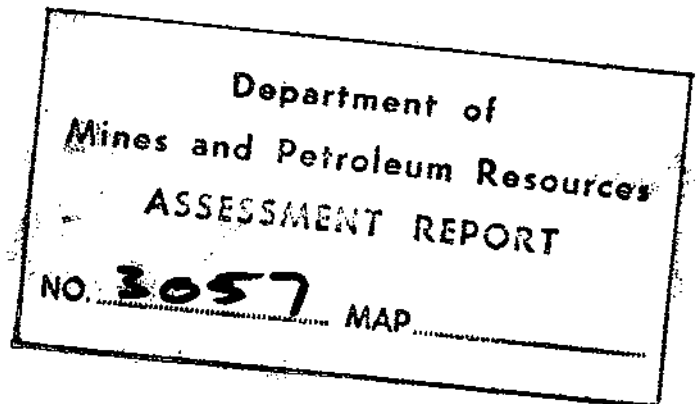
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PLANS

#2 Geochem Contour Plan	71-119-GC
#1 Location Plan	71-119-L

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250 N. Grosvenor Ave.  
North Burnaby, B.C.

Telephone: 298-9619



# elc geophysics ltd.

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

## ELC GEOPHYSICS SUPPLEMENTARY REPORT

GEOCHEMICAL RESULTS FROM SURVEY NO 71-119-M OVER THE KODIAK AND AG CLAIMS GROUP FOR THE NEW PRIVATEER MINES LTD. (NPL) ZEBALLOS, B. C. May 28, 1971.

This is a supplementary report to the Magnetometer report No. 71-119-M indicating the values of the geochemical sampling for copper in PPM over the same grid lines used for the magnetic survey. The samples were taken at an average spacing of 200 feet along the grid lines and are indicated on the plan drawing No. 71-119-GC.

### Sampling Method:

The samples were taken 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 TSL Laboratories Ltd. 325 Howe St. Vancouver 1, B.C. The sample determinations were made by Crest Laboratories Ltd. 1068 Homer St. Vancouver, B.C.

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Interpretation & Presentation:

The values of parts per million in copper are presented in contour form, however it should be noted as indicated on the plan, that the background values are divided into two parts, based on their location, whether obtained in the drift, or on the slopes. The average background for the slopes has been taken at approximately 30 PPM and the average background for the drift and sediments are approximately 90 PPM. The first contour value for the slopes is for 60 PPM or more and the second contour for the slopes is 120 PPM or more. The first contour value for the drift and sedimentary area is 150 PPM or more and the second contour interval is for 200 PPM or more. The division of values along the border of the drift and the slope was chosen on the basis of the results wherein the higher values consistently commenced on the drift side of the boundary.

The anomalous zones are indicated by a number with the prefix GC.

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Results:

It will be noted that an enrichment extends from GC2 nearly parallel with the river, through GC3 to the south corner of the survey. An additional linear magnetic anomaly L5 has been added, indicating the strike of a magnetic low in a north south direction. The GC1 anomaly has the highest values for the slope anomalies and may be related to the magnetic anomaly L5. The GC2 anomalous area appears to have obtained the enrichment in the drift from the eastern slope that is in proximity to the river. The GC3 anomalous area shows enrichment of the drift below the bend in the river and extends to the north west into the GC1 area.

The GC4 area which is in the proximity of the camp, tramway and tailings pile, appears to follow closely the slope side of the boundary with the drift. Coinciding with the general strike is the C2 magnetic anomaly. To the west the GC5 small anomaly is of interest as it is in alignment with the magnetic C3 linear anomaly to the east.

The GC6 anomaly exists in a strong magnetic anomalous linear feature L1 to the north, and GC7 has its highest reading on the same L1 linear anomaly, to the south. The general strike of the GC7

contour follows closely to the C1 linear strike on the slope side of the drift boundary.

Summary:

To generalize, the drift area shows two zones of enrichment, GC2 and GC3. The northeasterly end of the eastern boundary 0+00 lines, shows consistently high readings from coordinate 45+00 NE to 59+00 NE which includes one exceptional value of 1350 PPM. Insufficient work has been done in this area to indicate local strike features other than the magnetic linear C1 and C3.

Apart from this local anomalous zone the principal area of interest is on the western end of C3 and the low magnetic anomaly L5. This area was generally designated as Z1 in the magnetometer survey drawing 71-119-M. The northern portion of the GC1 area is on the slope and conforms closely to the L5 magnetic low. High readings on the south end of GC1 are on the base of the north west slope and extend into the drift. This would suggest an accumulation from the upstream side. In this case it would support the L5 linear anomaly.

The GC4 area is closely associated with

...con't...

the slope drift boundary interface and the camp area and therefore must be considered of secondary importance even though it follows closely the C2 linear anomaly.

Conclusions:

A recent discussion on the results of the magnetometer survey with Mr. L. J. Siega, engineer for New Privateer Mines Ltd. has indicated the possibility that the grid lines are paralleling the contact of a lime silicate zone, reported by J. Lamb in December 1964. Mr. Siega estimated the lime silicate zone to exist on the south east side of the river between coordinates 1+00 NE and 10+00 NE with a strike parallel to the grid lines.

It will be noted that this is on the opposite slope, shown as the Z1 zone in the magnetometer survey, and is referred to in the report "having a marked absence of variations suggesting the existance of limestone or non-metallic minerals".

It now is becoming apparent that line 5+00 NE extends approximately down the centre of the altered lime silicate with the bonanza volcanics

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contact, shown as C5 and the quartz diorite contact, indicated as C4.

Under these conditions we might conclude that the major area of interest may be closely associated with the contact C4, the linear anomaly L5, the linear anomalies C1 and C3. The GCl area includes a high reading, 575 PPM which also showed up on the field geochem analysis. The southerly readings of 290, 255, and 365, are possibly from the drift and therefore could be enriched from the upstream side in the vicinity of C4 and L5. The same applies to G3 anomalous zone downstream from the C4 contact line.

The geochem results, especially on the line 10+00 NE are especially gratifying in supporting both the geological and magnetometer interpretations of this survey by indicating copper enrichment in the vicinity of the contact line C4.

Recommendations:

It is recommended that the magnetometer survey area Z1 zone including the GCl and L5

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anomalies be extended with detail involving 100 foot line spacing and 50 foot intervals, involving both magnetometer and geochem determinations. Additional work in the GC2 area south of linear anomaly C1 should be done to the east.

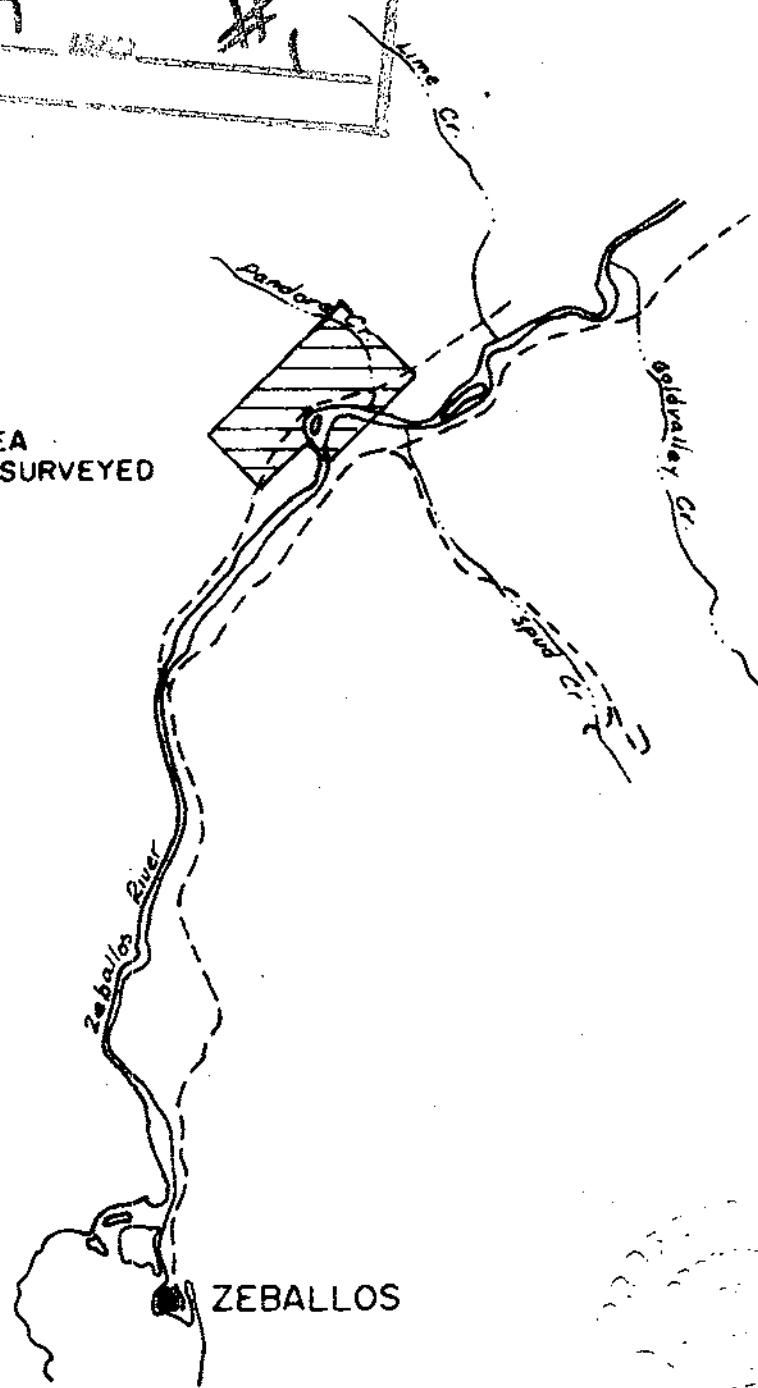
D.L. Hings, P.Eng.  
Geophysicist

LOCATION MAP  
SCALE: 1:50,000  
DWG. NO.: 71-119-L

Department of  
Mineral and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3057 AND #1



AREA  
SURVEYED



ZEBALLOS

*V.L. King*


# New Privateer Mine Limited (N.P.L.)

SUITE 329 - 736 GRANVILLE STREET, VANCOUVER 2, B.C.

TRIP TO ZEBALLOS, B.C. - APRIL 2-22, 1971

Gordie Warren	Expenses	\$168.05
	Wages	525.00
A & G Rentals	Truck Rental	
	Mileage @ .17	587.70
	Expenses	53.40
	Wages (A. Caldwell)	90.00
Zeballos Hotel	Accommodation (5 Men)	350.00
Pioneer Cafe (Zeballos)	Meals (3 Men)	302.30
Engineering Fees	L. Siega	877.00
Total		<u>\$2,953.45</u>

Declared before me at the City  
of Vancouver, in the  
Province of British Columbia, this 4  
day of June 1971, A.D.



Julie Turner  
A Commissioner for taking Affidavits within British Columbia  
A Notary Public in and for the Province of British Columbia

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**geophysics ltd.**

250 NORTH GROSVENOR, VANCOUVER, CANADA

TELEPHONE: (604) 298-5519

May 15, 1971

INVOICE 114

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New Privateer Mines Ltd.  
326-736 Granville Street  
Vancouver, B.C.

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13 miles magnetometer & soil sampling	\$ 2025.00
0.5 miles sampling	75.00
Staking Claims	110.00
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	\$2210.00
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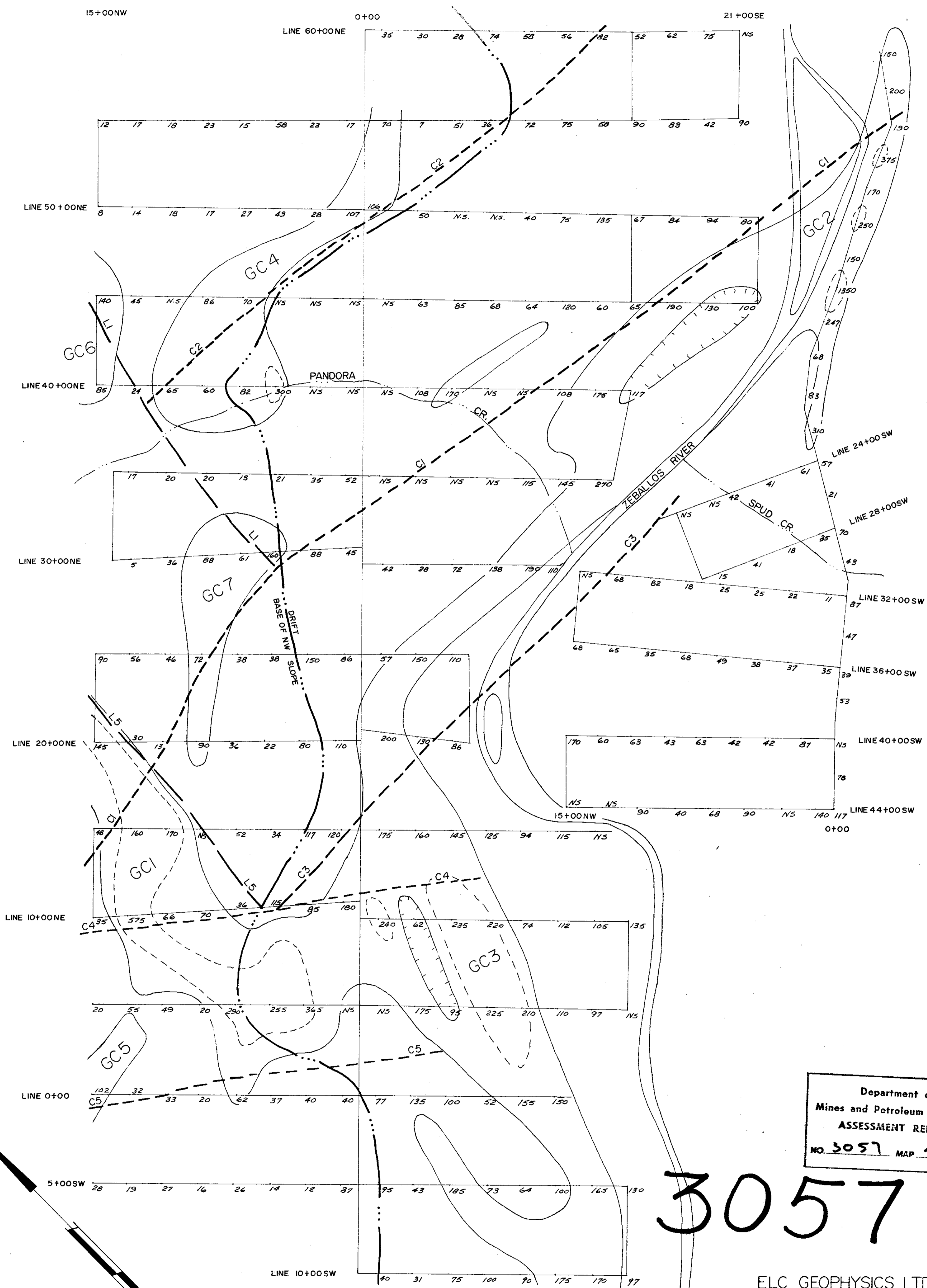
Declared before me at the City

of Vancouver, in the

Province of British Columbia, this 4

day of June 1971, A.D.

Gill Turner  
A Commissioner for taking Affidavits within British Columbia  
A Notary Public in and for the Province of British Columbia



NOTE:-  
 — LINE & STATIONS  
 — 20 70 COPPER PPM  
 — LINEAR ANOMALY  
 - - - - - FORMATION CHANGE

SLOPE DRIFT  
 30 PPM — 90 PPM BACKGROUND  
 60 + — 150 +  
 120 + — 200 +

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 3057 MAP #2

3057 M-2

ELC GEOPHYSICS LTD.  
 KODIAK & G CLAIMS ZEBALLOS, B.C.  
 NEW PRIVATEER MINE LIMITED  
 MAY 1971 SCALE: 1" = 300' DWG. NO. 71-119-GC  
 GEOCHEM. PLAN  
 APPROVED