ELC GEOPHYSICAL REPORT
No. 71-119-M
KODIAK AND AG CLAIMS GROUP
126° W - 50° N
for THE NEW PRIVATEER MINES LTD (NPL)
ZEBALLOS, B.C.
APRIL 1971

92F/2W

by D.L. Hings, P.Eng.

This is Report No. 71-119-M
for The New Privateer Mines Ltd.
Kodiak and AG Claims Group,
Zeballos, B.C.
April, 1971

92 L /2W

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PLANS

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ELC GEOPHYSICS REPORT NO. 71-119-M COVERING THE MAGNETOMETER SURVEY OF THE KODIAK AND AG CLAIMS FOR THE NEW PRIVATEER MINES LTD. ZEBALLOS, B. C. 126° W - 50°N APRIL, 1971.

Purpose:

It was the purpose of the survey to determine magnetically if known geological formations that exist on the south east side of the Zeballos river extend to the north west below the drift in the valley.

Location:

The Kodiak and AG claims are located approximately four miles north of Zeballos in the Zeballos-Nimpkish Area, 126° W - 50° N, on Vancouver Island, British Columbia. See location reference map.

Geological Reference:

Memoir 272 Geology and Mineral Deposits of the Zeballos-Nimpkish Area, Vancouver Island, B.C. by J.W. Hodley.

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Instrumentation:

The survey was conducted with a vertical field fluxgate magnetometer made by Sabre Electronics Ltd. Vancouver, B.C. Readings are directly indicated in gammas.

Presentation:

The survey grid is shown on drawing No. 71-119-M indicating the central base line approximately north 45° E for 7000 feet along the north west side of the Zeballos River. The grid lines extend perpendicular to the control line and are spaced at approximately 500 foot intervals. The magnetometer readings were taken at 100 foot intervals along the grid lines, with the exception of reduced spacing down to 25 foot intervals in areas of anomalous interest.

The values of the magnetometer readings are indicated in profile form wherein the grid line represents 53,000 gammas and the vertical value + or - is 1,000 gammas to the inch. The plan drawing indicates the location of the Zeballos river and the northwest edge of the valley drift.

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Results:

Reference to the plan 71-119-M indicates a series of linear anomalies having an east west trend. The north west side of the survey does not have drift coverage and includes the slopes of the mountains to the north west. This area is more clearly defined and three geological formations are shown, Z1, Z2 and Z3. The Z1 zone in the NW end of lines 5+00 NE - 10+00 NE has a marked absence of magnetic variations suggesting the existance of a limestone or non-metallic minerals.

In contrast Z2 to the south west indicates a shear zone having east west strike features that terminate to the east between line 0+00 and 5+00 SW.

The Z3 zone covers an area that includes a campsite, tailings pile, water tank and the lower end of a tramway to an iron mine. For this reason several of the anomalous features have to be disregarded, however the L1 anomaly seems to be particularly consistent and has values, common to a magnetite vein. Both L1 and L4 to the west have a strike generally perpendicular to the bedding. Both these linear anomalies fade severely where covered by drift. The alinear anomalies L2, L3 are believed to be very close

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to the bedding strike, whereas the anomalies C1, C2, C3 appear to follow the interface between geological formation changes.

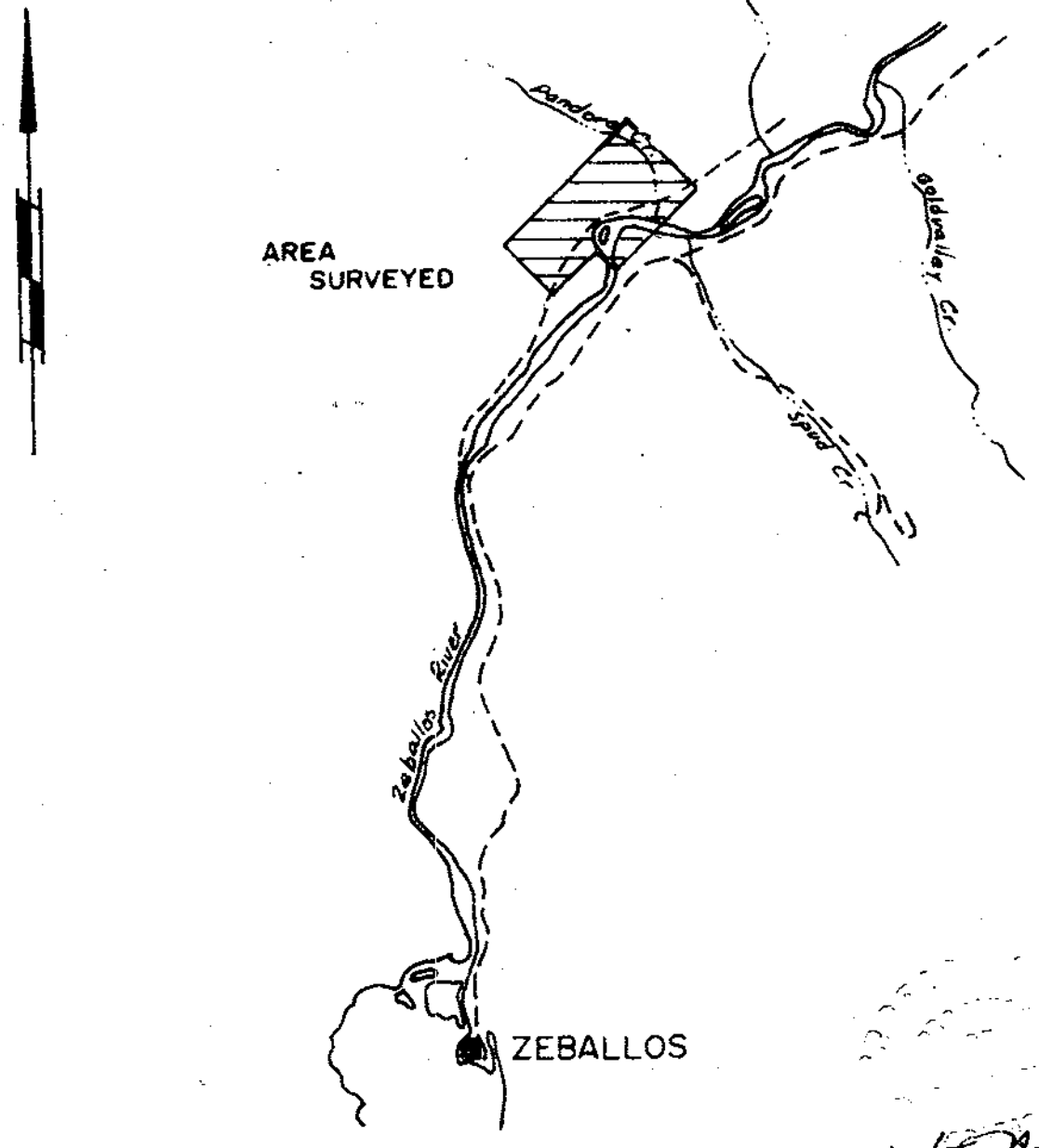
Summary:

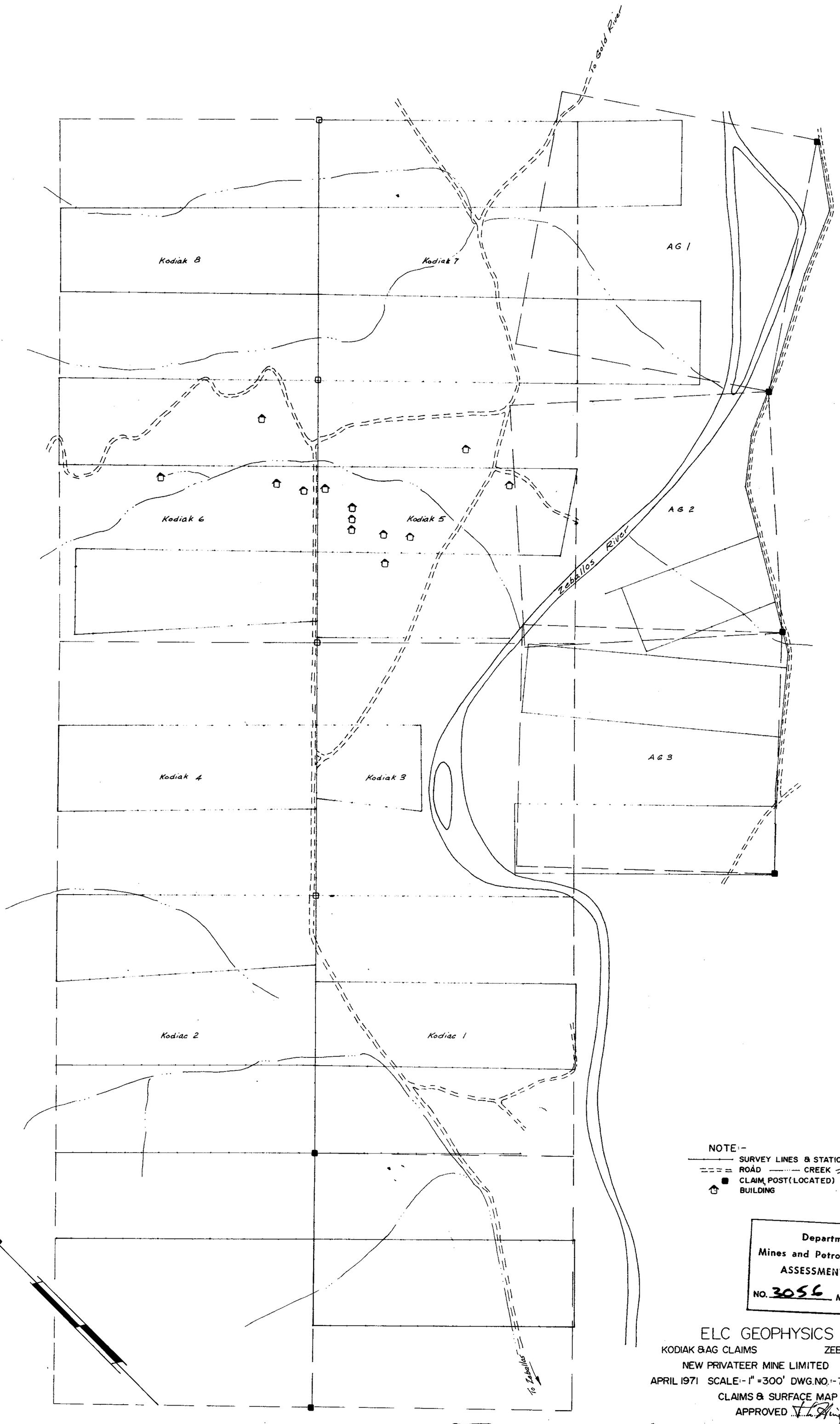
Soil sampling was done wherever practical at 200 foot spacing over these grid lines. Field kit evaluations were inconclusive and the results of the assays have not yet been received. It would appear that soil sampling is of less value over the drift area than over the slopes, when relating the values to the magnetometer survey interpretation. The strongest magnetic anomalous feature is L1 and should be visibly distinguishable in outcrop areas.

Surface geological investigation over the Z1, Z2 and Z3 zones combined with the geochemical results should delineate definite boundaries and locations for detail geological surface analysis. Final conclusions await the geochemical results..

D.E. Hings, P. Eng.
Geophysisist

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





NOTE:-

SURVEY LINES & STATIONS
ROAD — CREEK — RIVER
CLAIM POST (LOCATED) — CLAIM LINE
BUILDING

ELC GEOPHYSICS LTD.

KODIAK & AG CLAIMS ZEBALLOS, B.C.

NEW PRIVATEER MINE LIMITED

APRIL 1971 SCALE:- 1" = 300' DWG.NO.:- 71-119-S

CLAIMS & SURFACE MAP

APPROVED

3056 M-3

15+00NW

0+00

21+00SE

LINE 60+00NE

LINE 50+00NE

LINE 40+00NE

LINE 30+00NE

LINE 20+00NE

LINE 10+00NE

LINE 0+00

5+00SW

LINE 10+00SW

LINE 24+00SW

LINE 28+00SW

LINE 32+00SW

LINE 36+00SW

LINE 40+00SW

LINE 44+00SW

15+00NW

0+00

L1

L2

L3

L4

C1

C2

C3

Z1

Z2

Z3

ZEBALLOS RIVER

DRIFT BASE OF NW SLOPE

NOTE:-

ZERO LINES & STATIONS

ZERO LINE 53,000 GAMMAS (1"=1000 GAMMAS)

LINEAR ANOMALY

FORMATION CHANGE

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MAG. PROFILES

APPROVED