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ELC GEOPHYSICAL REPORT

NO. 71-106-M

DOR CLAIMS GROUP

50° N - 120° W

FOR TANJO MINES LTD. (NPL)

NICOLA MINING DISTRICT

NORTH OF ASPEN GROVE, B.C.

MARCH 15, 1971 to JUNE 7, 1971

by D.L. Hings, P. Eng.

5061

This is report No. 71-106-M 92 H/15 & 92 I /2E
for Tanjo Mines Ltd. (NPL)
DOR Claims Group, Nicola Mining District
North of Aspen Grove, B.C.
March 15, 1971 to June 7, 1971

3061

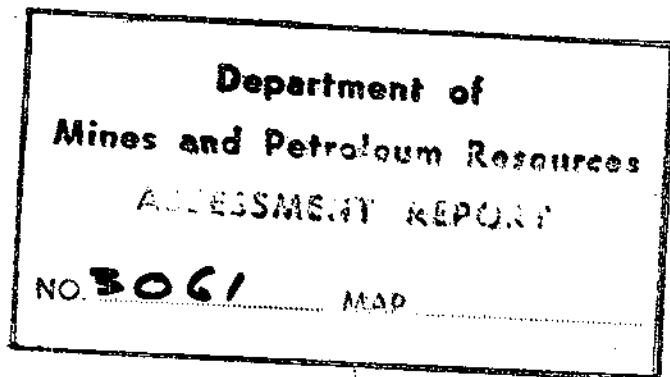
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PLANS

#1 Profile Plan 71-106-M

ELC GEOPHYSICS LTD.
250 NORTH GROSVENOR AVE.
BURNABY 2, B. C.
Telephone 298-9619



ELC GEOPHYSICAL REPORT NO. 71-106-M COVERING THE
DOR CLAIMS GROUP, NICOLA MINING DISTRICT APPROXI-
MATELY FOUR MILES NORTH OF ASPEN GROVE, B. C. FOR
TANJO MINES LTD. (NPL) 50°N 120°W, MARCH 15, 1971
to JUNE 7, 1971.

Purpose:

The purpose of this magnetometer survey was to obtain a second geophysical assessment by the determination of the earth's vertical magnetic field anomalous configurations. The interpretation and assessment of this survey is done with the full knowledge of the previous EM survey over the same grid lines dated May 8th to June 3rd, 1970, in report No. EM-70-106 for Tanjo Mines Ltd.

Instrumentation:

The survey was conducted with a vertical field fluxgate magnetometer of the self levelling type reading directly in gammas. The instrument is a model M100 made by Sabre Electronics of Vancouver, B.C.

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Geological Reference:

Geological Services of Canada Maps No. 886A and No. 888A. Geological and Mineral Deposits of Nicola Map Area B.C. Memo 249 by W.E. Cockfield.

Location:

The survey covered approximately 17 miles of grid lines over the DOR claims located around and on Courtenay Lake and No. 5 highway approximately 10 miles southeast of Merritt, B.C. in the Nicola Mining District, Latitude 50° N longitude 120°W.

The plan shows the grid lines bracketing Courtenay Lake with the highway and power lines on the west side.

Presentation:

The presentation on the plan 71-106-M March 5th to June 7th, shows the magnetometer values plotted in profile form along the grid lines plus or minus as indicated with a base value of 55,000

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gammas on a scale of 1000 gammas to the inch. The station locations were made at 100 foot intervals. Linear anomalous features and areas of anomalous interest are indicated.

Results:

Plan 71-106-M shows the principal anomalous features on the southwest end of the lake. The A1 zone has a sharp eastern boundary F1 striking through the middle of the lake to the north and a southwest boundary indicated in the vicinity of L1. The perpendicular linear anomaly L1A coincides closely with the previous EM anomaly L1. The F1A and F1B have approximately the same strike as the previous anomaly F1 in the EM survey, but are not in the same alignment. The linear L3 anomaly to the north east has better continuity than the anomalous features of the EM survey in this area. There is however some support by EM conductive anomalies on the southern end of this line.

Summary:

Generally, the magnetic anomalous features

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are more clearly defined and have a greater degree of contrast than the EM anomalies over the same area. The fairly well defined A1 zone exists on the western side of a major fault extending through the lake indicated by the F1 line. Two linear anomalies L1 and L2 appear to exist to the north west through the A1 zone. The extension of these lines to the anomalous features on the north south control line to the west, are an assumption based on some support from the EM survey. Unfortunately the EM survey was masked by the power lines in this area and the magnetometer survey was not made in this area.

Conclusions:

As previously reported on the EM survey, the lake appears to be a division of geological formations. The extent of the A1 anomaly to the north requires surveying over the lake as previously recommended in the EM report. It is interesting to note the locations of the old workings are between L1 and L2 in the A1 anomalous zone. The A1 zone shows considerable shearing

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adjacent to the fault F1.

It now appears that the magnetometer survey is more responsive than the EM survey over the area of interest, that includes the old workings.

Recommendations:

The survey was made under adverse snow conditions on snow shoes, in the latter part of March. It is recommended that further detail work is warranted providing the work is scheduled earlier so that the survey may be extended over the ice on the lake and be generally confined to the west side of F1. Further investigation warrants closer spaced lines in the south west portion of the plan, to obtain a more detailed magnetometer assessment of the anomalous area, followed by a geo-chem sampling survey, over the same stations in an appropriate period of the year.


D.L. Hings, P.Eng.
Geophysicist

A Statement of Cost for Geophysical Survey No. 71-106-M covering the DOR Claims Group, Nicola Mining District approximately 4 miles north of Aspen Grove, B.C. by ELC Geophysics Ltd. March 15, 1971 to June 7, 1971.

Survey Crew:

R.L. Reece	15 days @60.00	900.00	
G. Olheiser	14 days @40.00	560.00	
W. Mather	14 days @40.00	<u>560.00</u>	2020.00

Transportation:

4 x 4 truck	14 days @14.00	196.00	
600 miles @ 14¢		<u>84.00</u>	280.00

Living Costs:

Living	42 mandays @ 7.00	294.00	
Food	42 mandays @ 6.00	<u>252.00</u>	546.00

Equipment and Supplies:

Misc.			100.00
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Instrument:

Sabre Magnetometer			
14 days @ 12.00			168.00

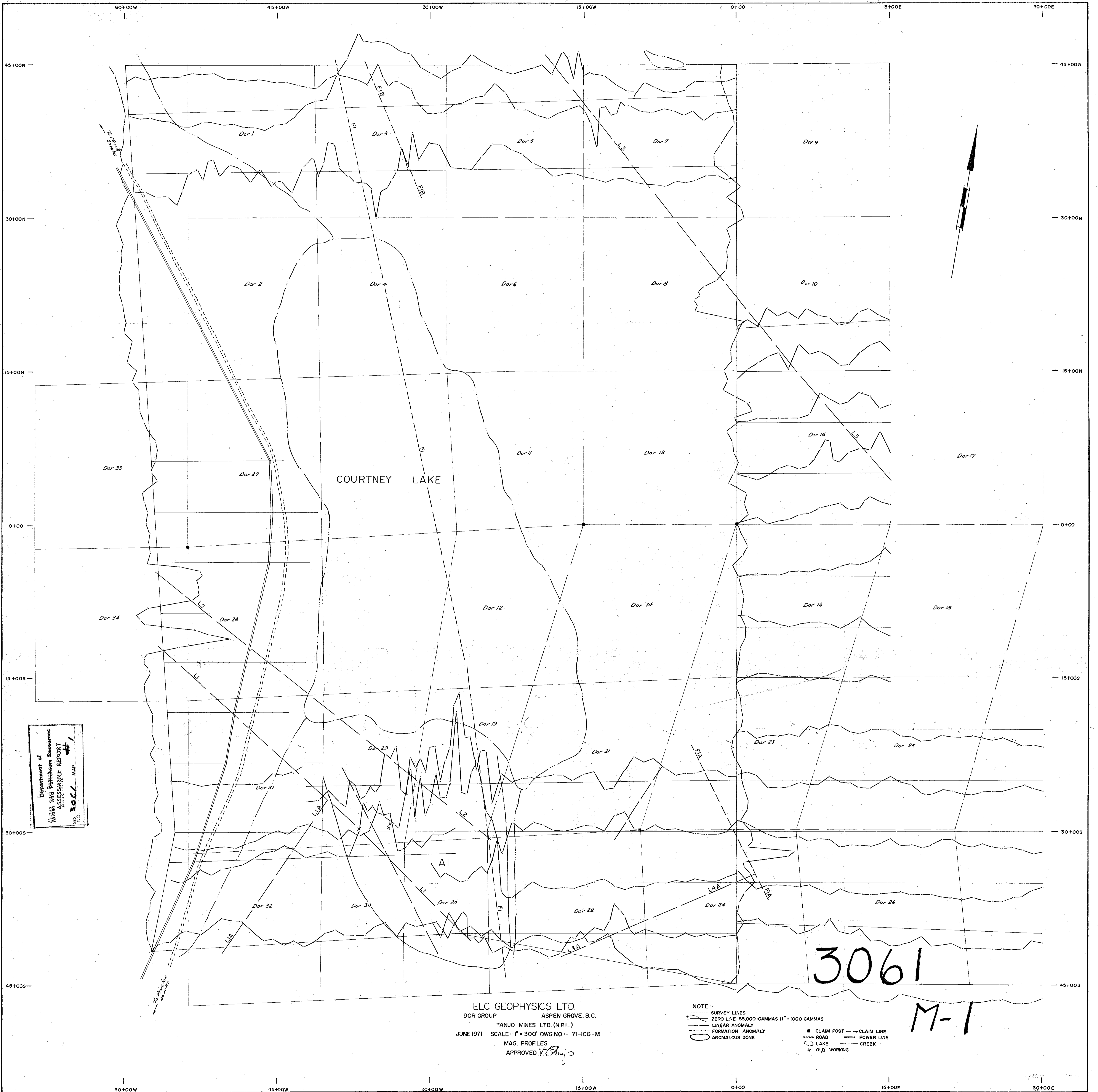
Data Processing and Drafting:

G. Olheiser	3 days @ 40.00	120.00	
D.A. Cramer	3 days @ 60.00	<u>180.00</u>	300.00

Interpretation & Report:

D.L. Hings, P. Eng.			<u>300.00</u>
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Total			\$ 3,714.00
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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
#1
MAP
NO. 3061

ELC GEOPHYSICS LTD.
DOR GROUP ASPEN GROVE, B.C.
TANJO MINES LTD. (N.P.L.)
JUNE 1971 SCALE: 1" = 300' DWG. NO. 71-106-M
MAG. PROFILES
APPROVED *V. Bling*

NOTE:-
SURVEY LINES
ZERO LINE 55,000 GAMMAS (1" = 1000 GAMMAS)
LINEAR ANOMALY
FORMATION ANOMALY
ANOMALOUS ZONE
CLAIM POST CLAIM LINE
ROAD POWER LINE
LAKE CREEK
X OLD WORKING

3061
M-1