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This is geophysical report No. 70-1080-M
For ASPEN GROVE MINES LTD., (NPL)
2 miles Northwest of Wynndel, B.C.
November 3rd, 1970.

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PLANS

#1 Magnetic Profiles No. 70-1080-M

ELC GEOPHYSICS LTD.
250 Grosvenor Ave.
Burnaby 2, B.C.
Telephone: 298-9619

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2728 MAP



geophysics ltd.

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

November 3, 1970.

ELC GEOPHYSICAL REPORT NO. 70-1080-M OF A MAGNETO-METER SURVEY OVER THE LIZ AND TAG CLAIMS GROUP, CONDUCTED FOR ASPEN GROVE MINES LIMITED, NPL., APPROXIMATELY 2 MILES NORTHWEST OF WYNNDEL, B. C. SEPTEMBER 25, 1970 to NOVEMBER 3, 1970.

Purpose:

The purpose of this vertical field magnetometer survey was to extend anomalies that might be geologically significant in an area directly north of the area reported in the geophysical survey No. 69-1080 executed to the south and a year prior to this survey.

Location:

The survey was conducted over the LIZ and TAG claims approximately 2 miles northwest of Wynndel, B.C. 116° West and 49° North. The survey commenced on September 25th, 1970, and completed on November 3rd, 1970. The survey was conducted under the supervision of W.D. Mather. The claims and posts are indicated

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the plan drawing No. 70-1080-M.

Instrumentation:

The geophysical instrument utilized was a vertical force self-leveling fluxgate magnetometer manufactured by Sabre Electronics, Model M-100. Readings are taken in gammas.

Geological Reference:

The geological reference has been from the Geological Survey of Canada, Memoir 228 by H.M.A Rice of the Nelson Map Area, British Columbia. The specific area includes Wilds Creek on the east side of the Kootenay Valley just north of Duck Creek. Reference to the formations may be found on pages nine and ten.

Presentation:

The presentation is in profile form utilizing the grid lines as the zero base reference with the scale being equal to one inch to 500 gammas, plus or minus zero or 55,500 gammas.

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The principle grid lines are shown from coordinates 0 through to 25 North on the plan 70-1080-M. The station spacing varies from 25 to 100 feet with the closer spacing over the more anomalous features. In general the interpretation has been confined to linear anomalies that appear to be valid and are of insufficient strength to indicate any areas having minerals of high magnetic susceptibility. Correlation with the previous survey to the south is made with the coordinates, and south baseline of this survey being similar to those of the previous survey. The linear anomalies are shown in long dashed lines for this survey and short dashed lines where continued from the previous survey. The 1969 survey was done with the same instrumentation as this survey, but over separate or interlacing gridlines.

Results:

Referring to the drawing No. 70-1080-M the gridlines between coordinates 10+00S and 20+00S are located within the grid of the previous magnetometer survey made in 1969. These additional grid-

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lines have confirmed previous interpretations of linear anomalies within what was referred to as the Z1 zone, and it will be noted that the short dash linear lines are derived from the previous survey.

The survey conducted from 10+00N to 25+00N has been interpreted to indicate the probability of long linear anomalies with the general strike quite similar to the linear anomalies in the southern portion. The L6a linear anomaly appears to be a continuation of the L6 derived from the previous survey. The linear anomalies L9, L10 and L11 are derived from combined information from both surveys. The L12 and L13 linear anomalies appear to parallel the strike of the L7a and L8a linear directions.

Summary:

The L11 and L13 linear anomalies have the strongest readings in the northern portion of the survey. The additional readings in the southern portion confirm the Z1 zone as being the most anomalous of the combined surveys.

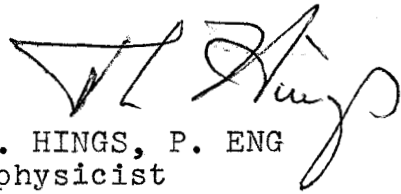
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Conclusions:

The apparent continuation of L6 to L6a and the close proximity of this line with the diamond drill hole at approximately 10+00N and 2+00W might be of geological significance. The southern area within the previously described Z1 zone and A1 strike show the most concentrated potential.

Recommendations:

The correlation of the two surveys substantiates the general strike patterns of the linear anomalies and it therefore would appear that a careful geochemical survey over these grids with a little more detail in the LIZ-B1 and LIZ-B2 claims would provide a basis for subsurface development work.


D.L. HINGS, P. ENG
Geophysicist

A STATEMENT OF COSTS FOR SURVEY NO. 70-1080-M
 GEOPHYSICAL SURVEY COVERING THE TAG, LIZ AND HT
 CLAIMS NORTHWEST OF WYNNDEL, B. C. BY ELC GEOPHYSICS
 LTD. SEPTEMBER 25, 1970 to NOVEMBER 3, 1970.

Survey Crew

W. Mather	7 days @ 45.00	\$ 315.00
B. Kolson	7 days @ 30.00	210.00

Transportation:

Truck rental	7 days @ 12.00	84.00
1600 miles	@ 12¢	192.00

Living Costs

Motel	7 days @ 12.00	84.00
Meals	14 mandays @ 6.00	84.00

Equipment

Magnetometer	7 days @ 10.00	70.00
Misc. Supplies		50.00

Data Processing and Drafting

3 days @ 60.00	180.00
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Interpretation and Report

D.L. Hings P. Eng.	150.00
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TOTAL	\$ 1,419.00
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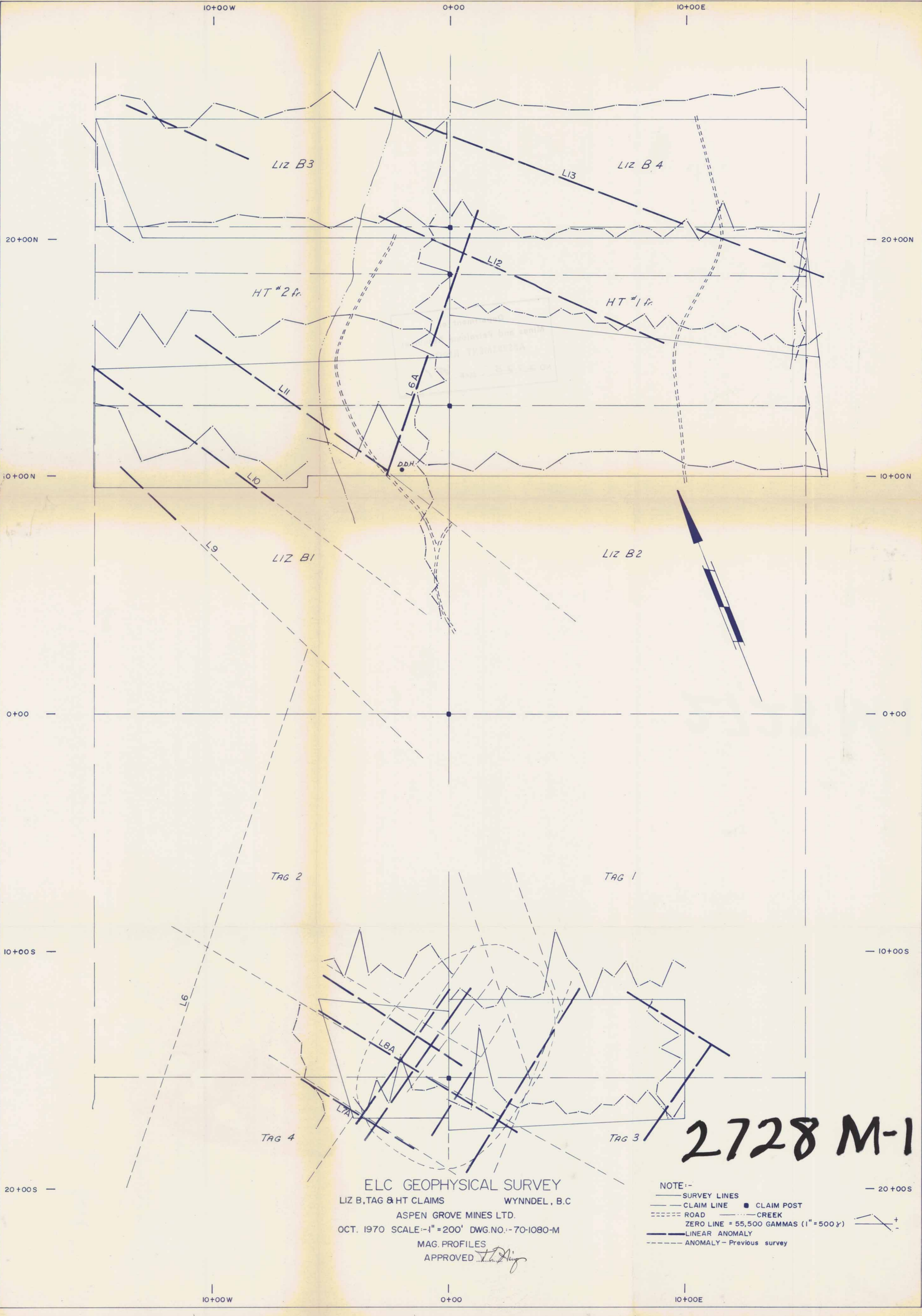
Declared before me at the city
 of Vancouver, in the
 Province of British Columbia, this 23
 day of November 1970, A.D.

A. Fyfe

John Turner

A Commissioner for taking Affidavits within British Columbia or
 A Notary Public for the Province of British Columbia

Sub-Mining Recorder

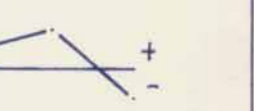


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ELC GEOPHYSICAL SURVEY
 LIZ B, TAG & HT CLAIMS WYNDEL, B.C.
 ASPEN GROVE MINES LTD.
 OCT. 1970 SCALE: 1" = 200' DWG. NO.: 70-1080-M
 MAG. PROFILES
 APPROVED *[Signature]*

NOTE:-
 — SURVEY LINES
 — CLAIM LINE ■ CLAIM POST
 - - - - ROAD - - - - CREEK
 — ZERO LINE = 55,500 GAMMAS (1" = 500γ)
 — LINEAR ANOMALY
 - - - - ANOMALY - Previous survey

— 20+00S



— 20+00N

10+00W

0+00

10+00E