

v/

NICOLA

ELC GEOPHYSICS LTD.
REPORT NO. ELC-73-303
MIX AND 3-WAY CLAIMS GROUP

ASPEN GROVE, B. C. 49° N - 120° W

FOR ASPEN GROVE MINES LTD.
MAY 20, 1973 to JULY 9, 1973

by D.L.HINGS, P.ENG.

92H/15E

4474

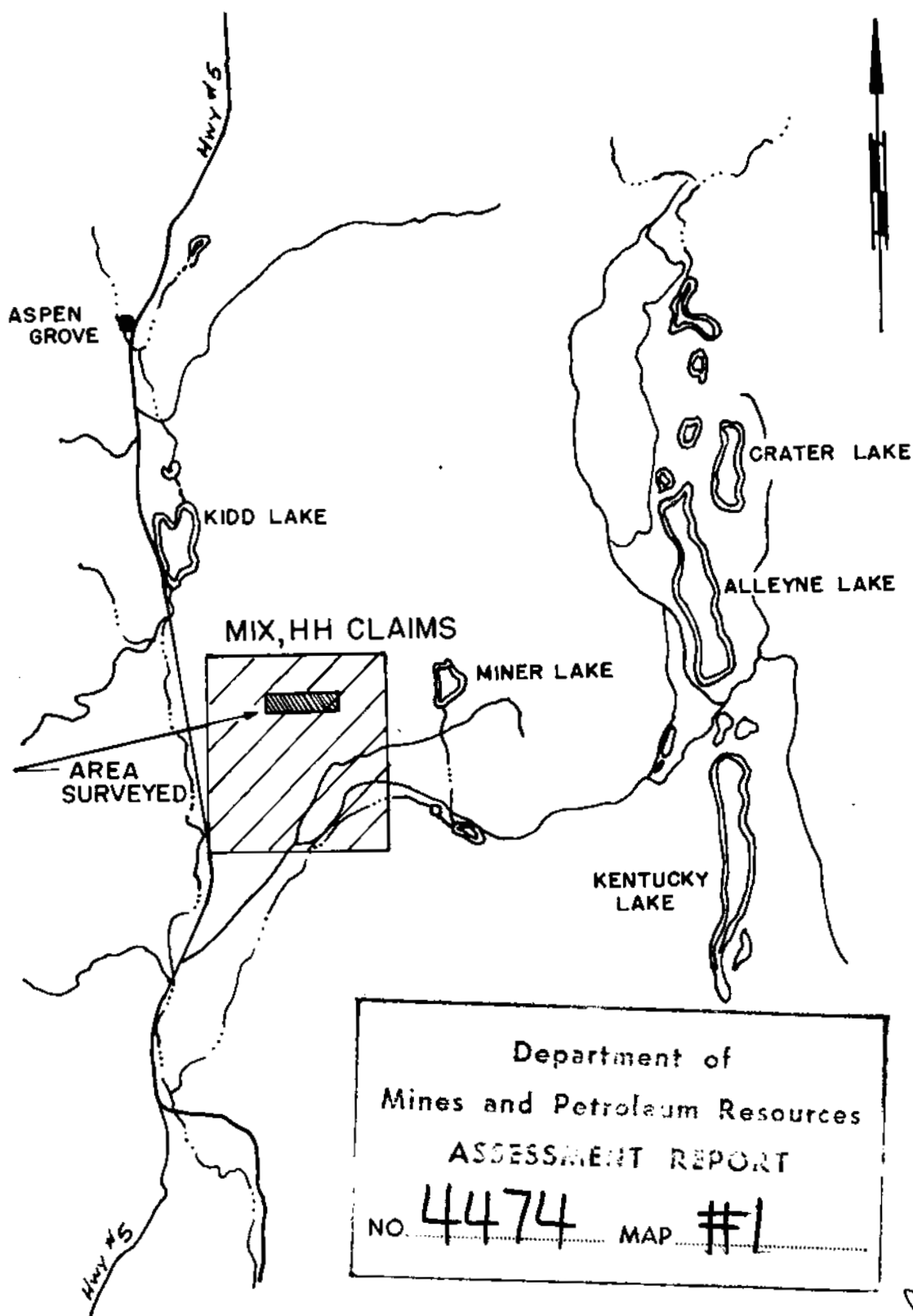
MIX, HH CLAIMS

ASPEN GROVE, B.C.

ASPEN GROVE MINES LTD

JULY 1973 SCALE 1"=0.8 MI. DWG. NO. ELC-73-303-L

LOCATION PLAN



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4474 MAP #1

J. L. King

A statement of costs covering ELC Geophysics Report
 No. ELC-73-303
 Over the MIX and 3-WAY claims group
 For Aspen Grove Mines Ltd.
 Aspen Grove, B.C. 49° N - 120° W
 May 20, 1973 to July 9, 1973

Field Crew

W. Mather	10 days @ \$60.00	\$600.00
E. Wiggins	10 days @ \$45.00	450.00
K. Pettersen	5 days @ 60.00	300.00
J. Krygsveld	5 days @ 45.00	<u>245.00</u>

\$ 1595.00

Transportation

4 x 4 Truck	10 days @ \$12.00	120.00
600 miles @ 12¢		<u>72.00</u>

192.00

Living Costs

30 mandays @ \$10.00

300.00

Instruments & Equipment

EM 16 Instrument	10 days @ \$10.00	100.00
Magnetometer	10 days @ \$10.00	100.00
Misc. Supplies	10 days @ 5.00	<u>50.00</u>

250.00

Plotting & Drafting

R.L. Reece	3 days @ \$60.00	180.00
D.A. Cramer	2 days @ 60.00	<u>120.00</u>

300.00

Interpretation & Report

D.L. Hings, P.Eng.
 1 1/2 days @ \$125.00

187.50

Declared ~~before me~~ **FOR AFFIDAVITS**

of *Vancouver*, in the
 Province of British Columbia, this *13*
 day of *July* *1973*, A.D.

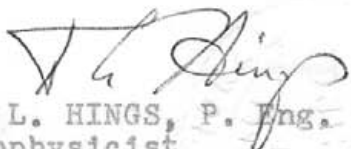
\$ 2824.50


Conclusions:

The conductive linear anomalies indicated on plan ELC-73-303-EM are the areas of interest which exist principally in the eastern portion of the survey. The A1 anomaly is supported by the magnetic low M-LO and represents an area of increased conduction. The Z-2 crossover anomaly also supports the A1 conductive area.

Summary:

The central and western portion of the survey indicates sufficient conductive anomalies, with subsurface magnetic anomaly support, to warrant geochemical analysis between coordinates 10+00 E between lines 12 N and 24 N and to the east, to 26+00 E or possibly 30+00 E. It should be noted this ground is relatively flat and well covered.


D. L. HINGS, P. Eng.
Geophysicist



cb

contours to the southeast appears to be closely associated with the slight magnetic high to the south. The M7 linear anomaly is on the portion of the magnetometer survey that extends beyond the EM survey.

EM Results:

Crossover anomalies indicated as Z-1 and Z-2 coincide in some degree to the magnetic high and magnetic low anomalies, however the conductive zone A1 corresponds more closely with the magnetic low anomaly and extends down into the higher magnetic values to the south. The conductive linear anomaly CL3 is supported by the M3 anomaly of the magnetic survey, also the conductive linear anomaly CL4 correlates with the magnetometer linear anomaly M4.

and a total of 39,000 feet, covering the HH-MIX and 3-WAY claims.

The plan No. ELC-73-303-M also shows linear and contoured anomalies having magnetic lows and magnetic highs. Roads, creeks and claims posts are also shown on this plan.

The electromagnetic survey indicated by two component profiles on plan No. ELC-73-303-EM also shows linear and contoured anomalies that are derived from crossover points, two component phase relation and three component including the magnetometer phase relations. All values of the profiles above and below the respective grid reference line are indicated on the plans.

Magnetometer Results:

The most anomalous area is shown within the contours M-HI. This magnetic field increase is related to the linear M3 running north and south through the property. The magnetic low M-LO within

Instrumentation:

The electromagnetic survey was conducted with a type EM16 Ronka instrument operating on 18.6 KHZ from the navy station NPG located in Arlington, Washington, USA.

The magnetometer survey was conducted with a vertical field fluxgate self levelling magnetometer model M-110 manufactured by Sabre Electronics of Vanc. B.C.

Personnel:

The surveys were performed by Wayne Mather and Eric Wiggins, J. Krygsveld and K. Pettersen.

Presentation:

The EM and magnetometer surveys are shown individually on profile form plans. Plan No. ELC-73-303-M covers the magnetometer survey indicating the grid lines east and west commencing on the base line on the west side and extending east for 3000 feet with station spaced at 50 foot intervals and lines spaced at 100 foot intervals. There are 13 grid lines

elc geophysics ltd.

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

ELC GEOPHYSICS LTD. REPORT NO. ELC-73-303, OVER THE MIX AND 3-WAY CLAIMS GROUP, ASPEN GROVE MINES LTD. ASPEN GROVE, B.C. MAY 20, 1973 to JULY 9, 1973. 49° N - 120° W.

Purpose:

The MIX and 3-WAY claims group were selected from a portion of an early reconnaissance magnetometer survey of May 1969 report No. 69-500-M, to be surveyed in detail for further development of this property.

Location:

The MIX and 3-WAY claims group are located three miles southeast of Aspen Grove, B.C. 49° N - 120° W. Refer to plan No. ELC-73-303-L.

Geological Reference:

R.E. Renshaw, P. Eng. geological report January 19, 1964.

Dr. A. E. Aho, geological report May 15, 1964, (3-WAY) copper property, Aspen Grove Mines Ltd.

.... 2

4474

This is ELC GEOPHYSICS LTD. Report No. ELC-73-303
Over the MIX and 3-WAY Claims Group
For Aspen Grove Mines Ltd.
Aspen Grove, B.C. 49° N - 120° W
May 20, 1973 to July 9, 1973

TABLE OF CONTENTS

	<u>PAGE</u>
Purpose	1
Location	1
Geological Reference	1
Instrumentation	2
Personnel	2
Presentation	2
Magnetometer Results	3
EM Results	4
Conclusions	5
Summary	5
Statement of Costs	6

PLANS

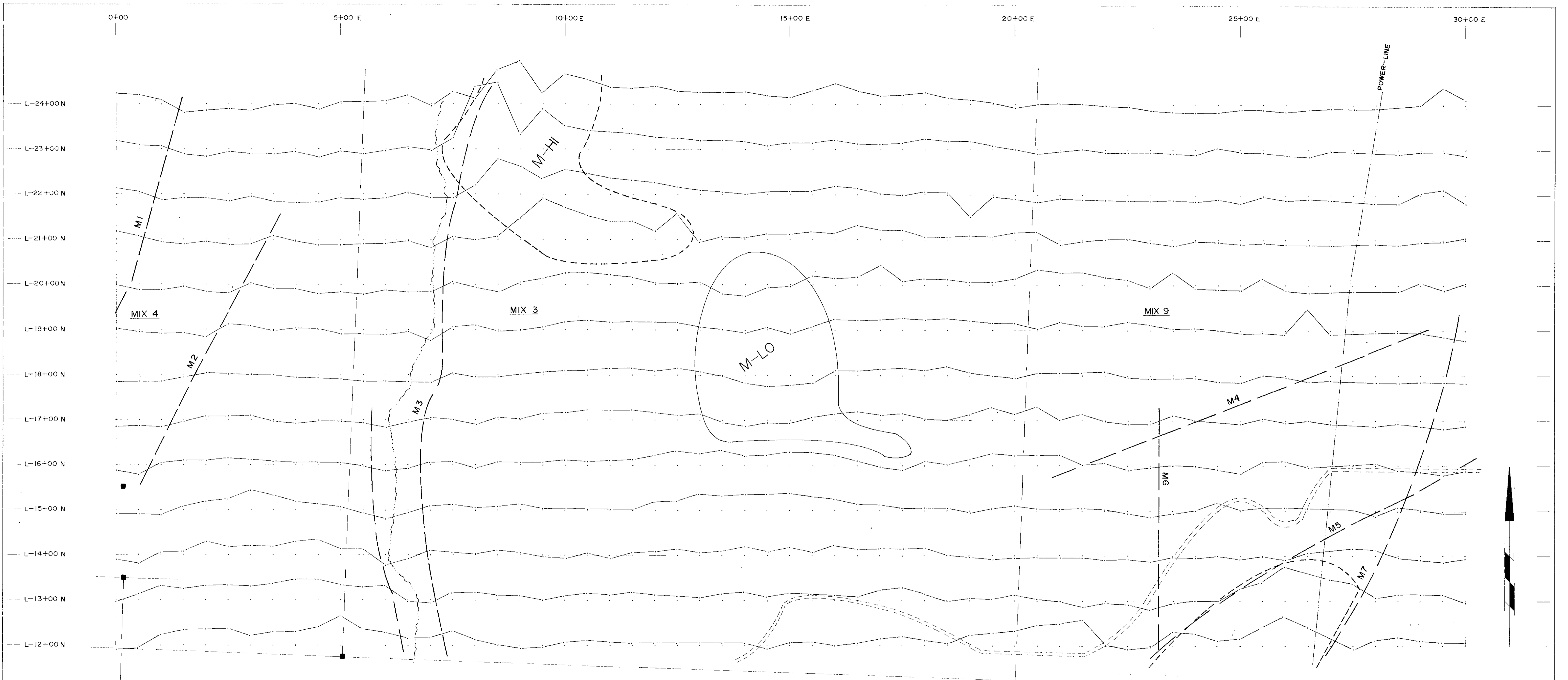
#1 Location Plan	ELC-73-303-L
#2 Magnetometer Profile Plan	ELC-73-303-M
#3 Electromagnetic Profile Plan	ELC-73-303-EM

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

298-9619

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4474 MAP.....



MIX 5 MIX 6

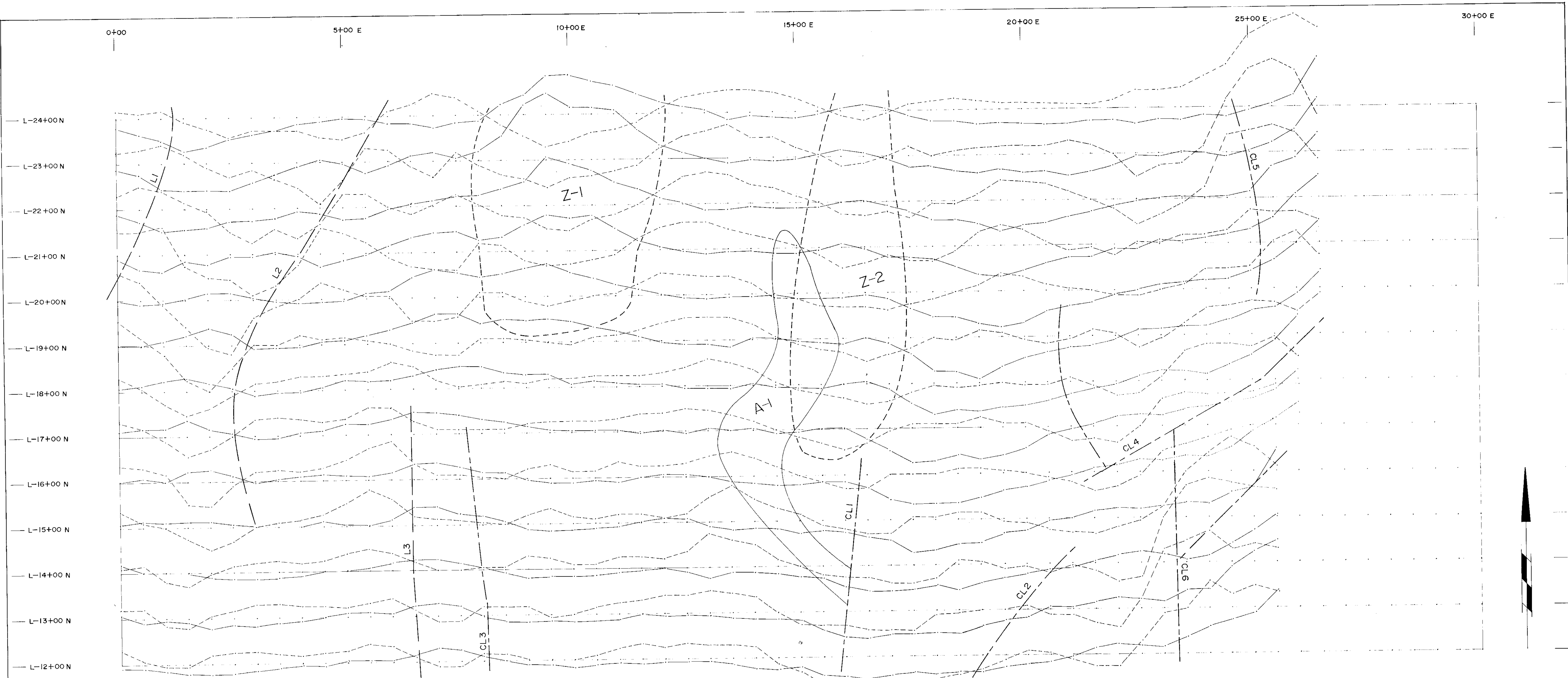
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4474 MAP #2

ELC GEOPHYSICS LTD.
MIX & 3-WAY CLAIMS ASPEN GROVE, B.C.
ASPEN GROVE MINES LTD.
JULY 1973 SCALE: 1"=100' DWG. NO.: 73-303-M

APPROVED *[Signature]*

NOTE:
 - SURVEY LINES & STATIONS
 - ZERO LINE=54,500 GAMMAS 1"=1000 GAMMAS
 - MAG LINEAR ANOMALIES =MAG HIGH =MAG LOW
 - CLAIM POST & CLAIM LINE
 - ROAD -CREEK

[Handwritten notes and signatures]



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **4474** MAP # **3**

ELC GEOPHYSICS LTD.
MIX & 3-WAY CLAIMS ASPEN GROVE, B.C.
ASPEN GROVE MINES LTD.
JULY 1973 SCALE: 1"=100' DWG. NO.: 73-303-EM

APPROVED *[Signature]*

NOTE: —±— ZERO LINE ——— IN-PHASE (I²=100%) - - - - - QUADRATURE (I²=20%)
 ——— SURVEY LINES & STATIONS
 - - - - - CONDUCTIVE LINEAR ANOMALY
 ——— LINEAR ANOMALY
 - - - - - CROSSOVER ANOMALIES
 ——— CONDUCTIVE ANOMALY