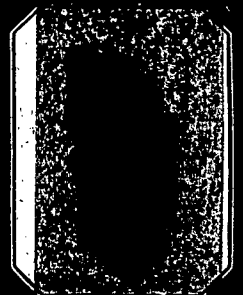


KLYCEPTOR GEOPHYSICAL REPORT
No. 69-500-M
MIX, HH & 3-WAY Claims Group
49° N - 120° W
FOR ASPEN GROVE MINES LIMITED
3 MILES SE OF ASPEN GROVE, B.C.
MAY 5th TO MAY 22nd, 1969

49° 120° NW

BY D.L. HINGS, P.Eng.



1850

This is Report No. 69-500-M
For Aspen Grove Mines Ltd.,
in the area of Aspen Grove,
B.C., May 5th to May 22, '69.

TABLE OF CONTENTS

	<u>PAGE</u>
Purpose	1
Instrumentation	1
Area Surveyed	1
Geological Reference	2
Presentation	2
Results	2
Conclusions	4
Recommendations	4
Statement of Costs	5

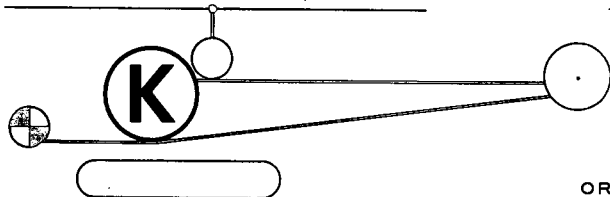
PLAN

Magnetic Profile

69-500-M

KLYCEPTOR INTERNATIONAL AIR SURVEYS LTD.,
250 NORTH GROSVENOR AVENUE,
BURNABY 2, B.C.
TEL: 298-9619

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. <u>1850</u>	MAP.....



KLYCEPTOR
INTERNATIONAL AIR SURVEYS LTD.

ORIGINATORS OF GEOELECTROMAGNETIC SURVEYS BY AIR
CUSTOM GEOPHYSICAL INTERPRETATIONS

May 22nd, 1969.

KLYCEPTOR GEOPHYSICAL REPORT NO. 69-500-M COVERING THE MIX,
HH and 3-WAY GROUP OF CLAIMS FOR ASPEN GROVE MINES LIMITED,
3 MILES SOUTHEAST OF ASPEN GROVE, B.C., COVERING THE PERIOD
MAY 5th TO MAY 22nd, 1969.

Purpose:

The purpose of the survey was to establish a ground survey grid to determine any anomalous features.

Instrumentation:

The magnetometer manufactured by Sabre Electronics of Vancouver, B.C., is a vertical field fluxgate type, not critical to lateral orientation and having relative scale readings in gammas.

Area Surveyed:

The survey grid and resulting profiles are shown on the drawing No. 68-500-M for May, 1969. The grid layout and the survey were conducted under the supervision of R.L. Reece. The average line spacing within the grid is approximately 500' feet with station spacing along the grid lines at 100 foot intervals. The drawing shows a plan of approximately 17 line miles of traverse. The survey began on May 5th, 1969 and the report was compiled on May 22nd, 1969. 69?

Geological Reference:

R.E. Renshaw, P.Eng. Geological Report, January 19th, 1964.

Dr. A.E. Aho, Geological Report May 15th, 1964.
(Three Way) Copper property, Aspen Grove Mines Ltd.

Presentation:

The vertical field magnetometer survey is shown in profile form on the plan drawing No. 69-500-M. Readings are indicated at 100 feet intervals along the grid lines. Claim posts, claim roads, creeks and shorelines are shown with respect to the co-ordinates and survey lines. The profile scale is equal to 1,000 gammas to the inch plus or minus the mean value of 54,000 gammas.

Results:

The results obtained from the vertical magnetometer survey of the Aspen Grove Mine's property shown on the plan drawing No. 69-500-M in profile form, have been interpreted on the basis of the magnetic anomalies, their relative configuration and location with respect to strike, etc. The readings are interpreted in linear anomalies. Interpretation aids included the photometry study of stereo-aerial photography and the geological reports on the property by geologist R.E. Renshaw, P.Eng., and by Dr. A.E. Aho, both having been submitted in 1964.

The prominent magnetic anomalies are indicated along the linear anomalies L1 and L2, both of which appear to have a strike between 10° and 20° west of north. Associated with these anomalies are four linear anomalies having strikes approximately 15° east of north. It will be noted that the linear anomalies L3, L4, L5, L6 and L7 are common in this respect.

A major fault, striking approximately 60° west of north, appears to cut through the property separating the two main anomalous zones. The fault F1 appears to have a prominent throw with the southern side to the west. A second fault F2 having a general eastwest strike appears to terminate the L2, L3 and L7 anomalies to the north. The L2 anomaly does not materialize on the line 5+00 North between the baseline 1 and the northsouth line 15+00 West. The strike and apparent dip to the east would suggest that if this anomaly did continue to the south it could be responsible for the mineralization referred to in Dr. Aho's report of drill hole X-ray. The south end of the L3 anomaly which was checked with close spaced stations shows a typical foot wall to the west and therefore would confirm Dr. Aho's conclusion of the easterly dip. The continuation of L3 to the north is obscured, apparently by the fault F1, and there are insufficient detail readings to project further north. The L1 anomaly is the prominent westerly portion of the most anomalous zone including L4, L5 and L6. This area shows considerable shearing and generally indicates a steeper foot wall to the west and probably dipping

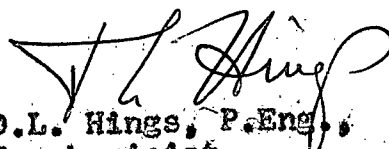
to the east as in the case of L2 and L3.

Conclusions:

The similarity in the strike patterns of L1 and L2 and the cross-fracturing of L7 with L4, L5 and L6 should warrant a geological analysis of the formations. The prominent faulting of F1 in combination with F2 may have created a displacement wherein L1 was a continuation of L2. This might be confirmed by surface samples.

Recommendations:

Detail surface sampling should be done in the areas having a general northsouth strike and if geologically warranted followed by a drilling program. The conclusions, with respect to drilling angles by Dr. Aho, would appear to apply to the northern area in the vicinity of L1, similar to the number 1 and X-ray holes drilled directly south of L2. It is difficult to determine why the readings did not extend further south from L2 and L3 without more detail readings to show whether it was from increased coverage, formation change or faulting.


D.L. Hings, P.Eng.,
Geophysicist.

A STATEMENT OF COSTS FOR GEOPHYSICAL SURVEY COVERING THE MIX,
HH, & S-WAY CLAIMS SOUTHEAST OF ASPEN GROVE, B.C., BY K.I.A.S.L.

MAY 5th TO MAY 22nd, 1969.

Survey Crew:

3 Men.

R.L. Reece	14 days @ \$35.00	\$ 490.00
N. Burhoe	10 days @ \$25.00	250.00
W. Mather	10 days @ \$25.00	<u>250.00</u>

\$ 990.00

Plus 100% Overhead

990.00

\$ 1,980.00

Transportation:

4 X 4 Rental \$ 261.11

Gas 54.00

\$ 315.11

Living Costs:

34 Man Day @ \$10.00 \$ 340.00

Instrument Rental:

11 Days @ \$10.00 \$ 110.00

Data Processing & Drafting:

D.A. Cramer - 5 days @ \$35.00 \$ 175.00

Plus 100% Overhead 175.00

\$ 350.00

Interpretation & Report:

D.L. Hings, P.Eng.,
2 days @ \$100.00 \$ 200.00

\$ 3,295.11

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *23*
day of *May* 1969, A.D.

A. F. Fyfe

Julie Suran
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia,
SUB - MINING RECORDER



KLYCEPTOR GEOPHYSICAL SURVEY
 MIX, HH, & 3 WAY CLAIMS ASPEN GROVE, B.C.
 ASPEN GROVE MINES LTD.
 MAY 1969 SCALE: 1" = 200' DWG. NO. 69-500-M
 MAG. PROFILES
 APPROVED *[Signature]*

NOTE:-
 SURVEY LINES & STATIONS
 CLAIM POST CLAIM LINE
 SHORE LINE CREEK
 1" = 1000 GAMMAS (ZERO LINE = 54,000γ)
 FAULT
 LINEAR ANOMALY
 SMALL FRACTURE PATTERNS

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 1850 M.P. 1

1850