92H/16E

Report on a Magnetometer Survey on the Brenda Lake Property of KOMO EXPLORATIONS LTD.

Claims: Orecan 7 - 10 incl.)
Boyd 7, 9-11 incl.) Ian Group

Location: Brenda Lake Area
Latitude 49°N, Longitude 120°W
Nicola Mining Division, B.C.

Report Submitted by R. Philp, P. Eng.

Survey Carried Out During the Period
February 7 - 11, 1967

080

980

Report on a Magnetometer Survey on the Brenda Lake Property of KOMO EXPLORATIONS LTD.

Orecan 7-10
Boyd 7, 9-11

ALRAE EXPLORATION LTD.

February 27, 1967

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Report on a Magnetometer Survey on
the Brenda Lake Property of
KOMO EXPLORATIONS LTD.

INTRODUCTION

The Brenda Lake property of Komo Explorations Ltd. consists of 162 mineral claims lying approximately 16 miles north west of Peachland, B.C. An exploration program consisting of line cutting, surveying, geological mapping, geochemical soil testing, an induced polarization survey and a magnetometer survey has been carried out on the property. This report summarizes the results of the magnetometer survey which was carried out during the period February 7 - 11, 1967, by R. Philp of Alrae Exploration Ltd.

LOCATION AND ACCESS

The property lies between Pennask and Brenda Lakes, 16 miles northwest of Peachland, British Columbia. Coordinates of the property are 120°03 West longitude, 49°55 North latitude. Access from Peachland is by approximately 25 miles of gravel road with a number of side roads providing good access throughout the property.

PHYSIOGRAPHY

The claims lie in an area of low to moderate relief at approximately 5,000 to 5,500 feet elevation. Topographically the area consists of a number of low drift covered ridges separating lower swampy areas, with swampy ground predominant in the south central portion of the claims. Jackpine and minor fir occupy all the ridges and higher ground with spruce common in the lower swampy areas. Underbrush is sparce throughout.

GEOLOGY

Regional mapping by the Geological Survey of Canada shows the area underlying the Komo Explorations Ltd. claims to be occupied mainly by Nicola Group volcanic and sedimentary rocks of Upper Triassic Age with Jurassic intrusive rocks in the north and northeast and a small area of Miocene volcanics in the northwest.

Geological mapping over the gridded area shows the central portion to be underlain by the Nicola Group rocks with intrusives occurring in the northwest and northern portions of the property and in the southeast corner of the gridded area. Nicola Group rocks may also be absent along portions of the western boundary of the claim group. Near the contacts, the Nicola Group rocks have been highly altered and in many places have been intruded by dykes and stringers of granodiorite. Exact contacts could not be determined due to the extensive overburden cover.

CLAIMS

The magnetometer survey was carried out over the main group of claims of Komo Explorations Ltd. Assessment work is being applied to the Orecan 7 - 10 inclusive and Boyd 7 and 9 - 11 inclusive. The claims lie in the Nicola Mining Division of British Columbia.

GRID

The control grid was established by the firm of Underhill & Underhill, land surveyors, using transit control. A north-south base line was established near the eastern boundary of the Komo Exploration's property with cross-lines at 600 foot spacings, picketed at 100 foot intervals. Approximately 12 miles of cross-lines were cut.

MAGNETOMETER USED

A Sharpe Model MF 1 Fluxgate magnetometer was used. This instrument is self-orienting and requires only coarse levelling. Temperature compensations have been built into the instrument.

The magnetometer can be read to five gammas on the lowest scale range. Scale ranges vary from a minimum of plus or minus 1,000 gammas to a maximum of plus or minus 100,000 gammas. Station values are read directly from an ammeter type scale. A high latitude adjustment permits zeroing of the magnetometer.

FIELD PROCEDURES

The magnetometer was zeroed for this property and base stations established at 600 foot intervals along the east and west base lines at the points where cross lines and base lines intersected. In establishing base stations, each loop ended at the same base station as it began and the average of two readings taken at each base station was used in subsequent calculations. The elapsed time in loops establishing base stations seldom exceeded 45 minutes.

After base stations were established, magnetometer readings were taken at 100 foot intervals on cross-lines between the east and west base lines. The duration of these traverses on cross-lines seldom exceeded one hour. Each traverse started and ended at an established base station.

Tolerable diurnal variation in any traverse was one gamma per minute elapsed. In all cases the variation was considerably less than this. All metallic objects were removed from the operator before the survey was begun.

CORRECTIONS

Compensations built into the instrument eliminate any need for temperature corrections being applied to the field readings. Diurnal corrections were applied to all readings and are determined by the difference between the initial and final base stations of each traverse. This variation is assumed to be linear. The correction

added to each reading in a traverse is the diurnal variation multiplied by the ratio: Time elapsed when reading taken divided by total time elapsed in the loop. As the instrument can be read to only five gammas, all corrections are rounded to the nearest five.

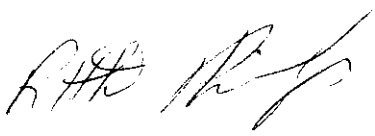
INTERPRETATION

The survey was successful in differentiating between the Nicola Group rocks and the intrusives, the latter having a higher magnetic background. Variations of up to approximately 300 gammas occur in areas underlain by volcanic and sedimentary strata of the Nicola Group. However, no significant anomalous zones were outlined. In addition, the survey indicates that the zone of high chargeability outlined by the induced polarization survey in the northwest corner of the property is due to the presence of the volcanid - sedimentary series, rather than to anomalous conditions within the intrusives.

RECOMMENDATIONS

The magnetometer survey was carried out primarily as an aid in the interpretation of the results from the induced polarization survey and to be interpreted in conjunction with this. As no significant anomalous conditions were outlined that coincide with areas of high chargeability as outlined by the induced polarization survey, or with geochemical anomalies, it is felt that no further work is warranted on the above group of claims.

Respectfully submitted,



R.H.D. Philp, P. Eng.

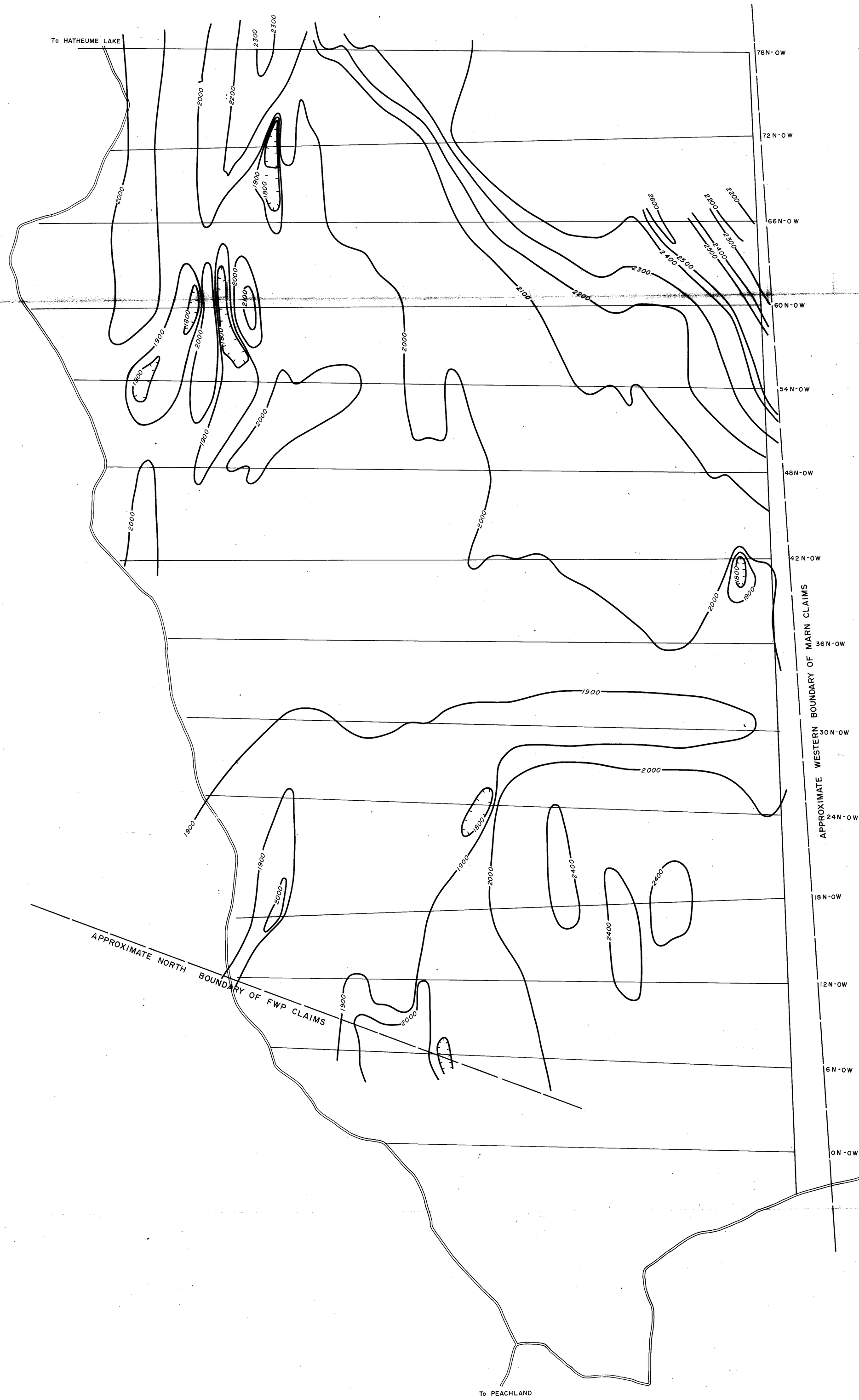
ALRAE EXPLORATION LTD.
202 - 846 WEST HASTINGS STREET, VANCOUVER 1, B.C. TELEPHONE 681-9381

STATEMENT OF EXPENDITURES

Magnetometer Survey
KOMO EXPLORATIONS LTD.
Property

Magnetometer Survey - Contract price		$ 700.00
Report Preparation, Miscellaneous		100.00
	TOTAL	$ 800.00

Alrae Explorations Ltd.
Per R. J. Cossa



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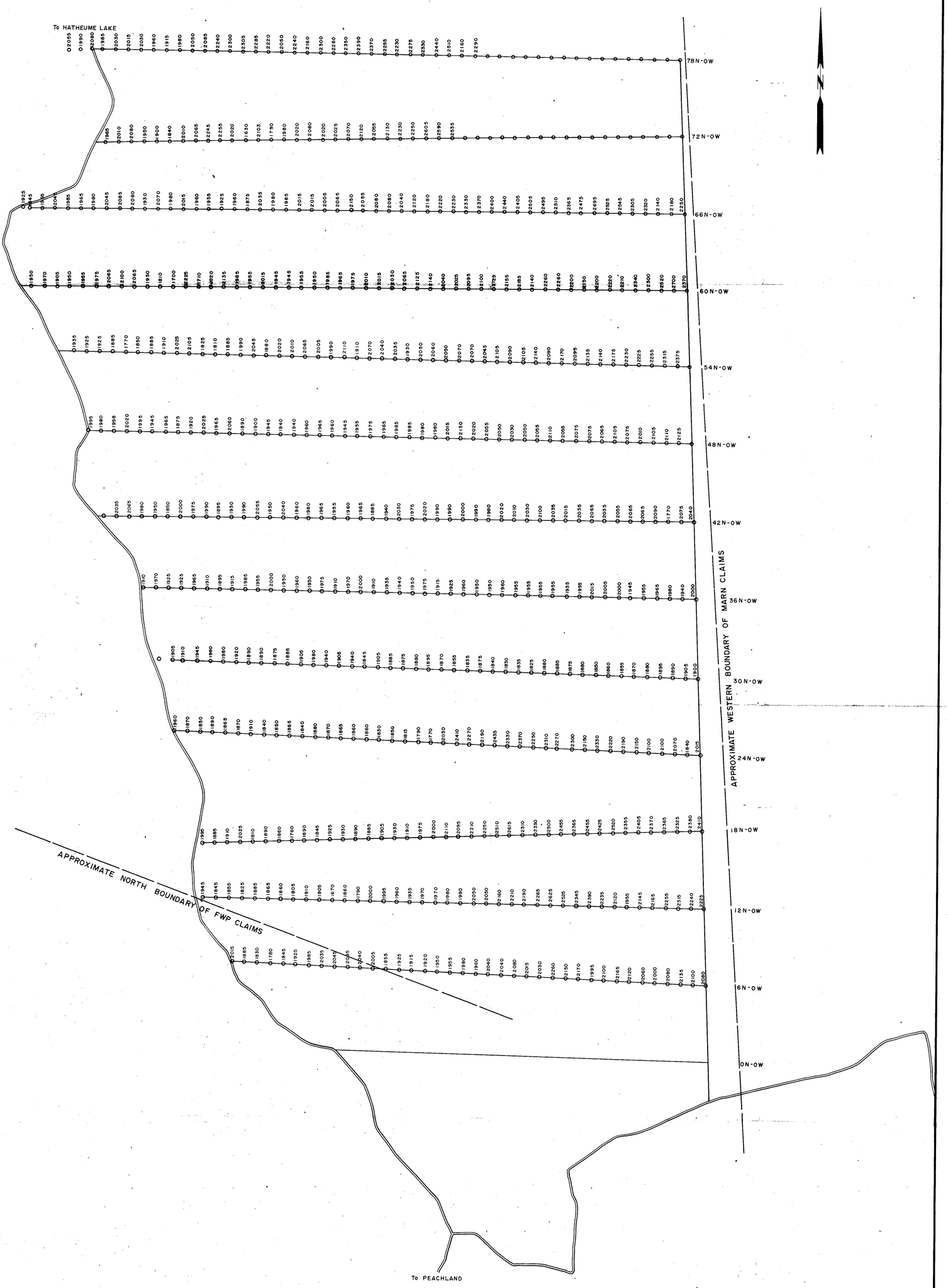
KOMO EXPLORATIONS LTD.		
BRENDA LAKE PROPERTY Magnetometer Survey Magnetic Contours		
ALRAE EXPLORATION LTD. GEOLOGISTS AND ENGINEERS VANCOUVER, B. C.		
DESIGNED..... DRAWN.... M.R.L..... CHECKED..... ALRAE EXP. LTD. DWG. No.	SCALES HOR: 1" = 300' VERT: DATE FEBRUARY 1967 JOB No.	REV.
CONTOUR INTERVAL : 100 gammas		

Map #1



KOMO EXPLORATIONS LTD.

BRENDA LAKE PROPERTY
Magnetometer Survey
Magnetometer Readings

ALRAE EXPLORATION LTD.
GEOLOGISTS AND ENGINEERS
VANCOUVER, B. C.

DESIGNED	SCALES HOR. 1" = 300' VERT.
DRAWN M.R.L.	
CHECKED	DATE FEBRUARY 1967 REV.
ALRAE EXP. LTD. DWG. No.	JOB No.
MAGNETOMETER USED: SHARPE MF-1 No. 21104	MAGNETIC VALUES in GAMMAS

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