

2361

GEOPHYSICAL SURVEY REPORT

ON THE

PRICE CLAIMS

HIGHLAND VALLEY REGION, B. C.

FOR PATHFINDER RESOURCES LTD.

APRIL 27, 1970

R. H. D. PHILP, P. ENG.

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<i>#1</i> MAGNETOMETER SURVEY MAP.....	1 inch = 400 feet <i>(See)</i>

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **2361** MAP.....

GEOPHYSICAL SURVEY REPORT  
ON THE  
PRICE CLAIMS  
HIGHLAND VALLEY REGION, B. C.

INTRODUCTION:

The Price Group consists of 85 mineral claims and fractions in the Highland Valley region of British Columbia. Geochemical and geophysical surveys have been conducted previously over much of the claim group, plus bulldozer trenching in the western portion.

During April, 1970 a grid was established and magnetometer survey conducted over four claims in the northeastern corner of the group. Work was conducted by personnel of Agilis Exploration Services Ltd., under the direction of Mr. F. Holcapek.

GENERAL CONDITIONS:

The property, lying 16 miles <sup>east</sup> ~~west~~ of Spences Bridge, British Columbia, is accessible by several 4-wheel drive roads. During the recent survey access was gained from the Highland Valley along the Billy Lake road which passes within approximately 2,000 feet of the claims. Snow was present and a 4-wheel drive truck and skidoo were used.

Topographic relief is low with elevations averaging 5,300 feet above sea level. Outcrop is common although snow covered the ground at the time of the recent survey. Light timber, consisting mainly of jackpine occurs throughout.

PROPERTY:

The property totals 85 full sized mineral claims and fractions. Recent work was conducted on the Orange Group consisting of the following claims:

<u>Claim</u>	<u>Record No.</u>
Price 31	49655
Price 33 - 38	49657 - 49662
Ruby 21 Fr.	51307
Ruby 20 Fr.	51306

Within this group, work was confined to the Price 35 - 38 and Ruby 21 Fr. mineral claims.

#### GEOLOGY:

No geological mapping was conducted at the time of the survey due to the snow cover. However, the claims lie near the centre of the Guichon Batholith, a complex intrusive mainly acid to intermediate in composition.

Within the area of the recent survey the claims should be underlain by the Bethlehem quartz-diorite, and possibly the Bethsaida granodiorite in part in the western portion.

#### MAGNETOMETER SURVEY:

##### INSTRUMENT:

The instrument employed was a Sharp MF1 Fluxgate magnetometer. This measures the vertical component of the earth's magnetic field, has a maximum sensitivity of 5 gammas on the 1,000 gamma scale and a total range of plus or minus 100,000 gammas.

The instrument is self orienting, requires only coarse levelling and has built in temperature compensations.

##### FIELD PROCEDURE:

Earlier grid lines to the south and west were extended over the northeastern claims. East-west cross lines were established at 400 foot intervals with stations marked every 200 feet. Lines were cut out and stations marked with flagging. A total of

approximately 4½ miles of lines were established in this manner.

The magnetometer was zeroed for the property and base stations established by taking the average of three readings at each station. Readings were taken at 200 foot intervals on all cross lines with each traverse beginning and ending at a base station. Elapsed time on any traverse was kept to less than one hour.

All readings were corrected for diurnal variation. Tolerable variation was one gamma per minute of elapsed time and was generally considerably less than this.

RESULTS:

Field data was corrected, plotted and contoured for interpretational purposes.

Magnetic relief is slight with values ranging from a minimum of 70 gammas to a maximum of 1,550 gammas and generally falling between 400 and 900 gammas. Contours exhibit a northerly trend parallel to the regional geologic and topographic trends. In general the survey is influenced mainly by topography consisting of a northerly trending series of ridges and depressions.

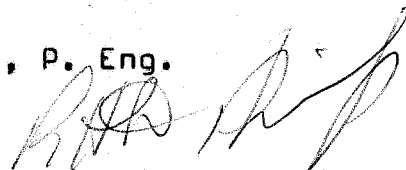
CONCLUSIONS AND RECOMMENDATIONS:

Magnetic relief throughout the surveyed area is low and no strongly anomalous high or low areas were indicated. A northerly trend is indicative of the topographic trend in the region.

For interpretational purposes, a more extensive survey combined with more detailed geological information is required. The purpose of such a survey would be to outline alteration zones, major structural features, and possibly contacts between the various intrusive phases.

Respectfully submitted,

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



STATEMENT OF QUALIFICATIONS

F. Holcapek - geologist - magnetometer operator.

I am a graduate of U. B. C. 1969 major in geology, minor geophysics and I have been employed in Mining Exploration since 1960.

DOMINION OF CANADA:  
PROVINCE OF BRITISH COLUMBIA.  
To Wit:

In the Matter of the magnetometer survey  
conducted on the Price claims during April 1970

I, Ronald Philp

201-714 West Hastings St., Vancouver B.C.  
of

in the Province of British Columbia, do solemnly declare that the following personnel  
were employed and costs incurred in conducting the surveys

PERSONNEL:

F. Holcapek-supervisor, magnetometer operator 3 days @ \$ 70.00 per day	210.00
T. Doubt- line cutter- 2 days @ 43.75 per day	87.50
R. Barnes- line cutter-3 days @ 44.00 per day	132.00
R. Philp- report preparation	100.00
L. Marsh, P. Van Riesen-plotting & Draughting 8 hours @ \$6.00 per hour	<u>48.00</u> \$577.50

DISBURSEMENTS:

Truck rental & gas	102.30	
Skidoo rental	60.00	
Meals & Accommodation	79.13	
Supplies	62.00	
Magnetometer rental	50.00	
Misc. typing, prints	<u>29.86</u>	383.29
10% service charge on disbursements	<u>38.33</u>	<u>421.62</u>
		<u>\$999.12</u>

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of  
the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

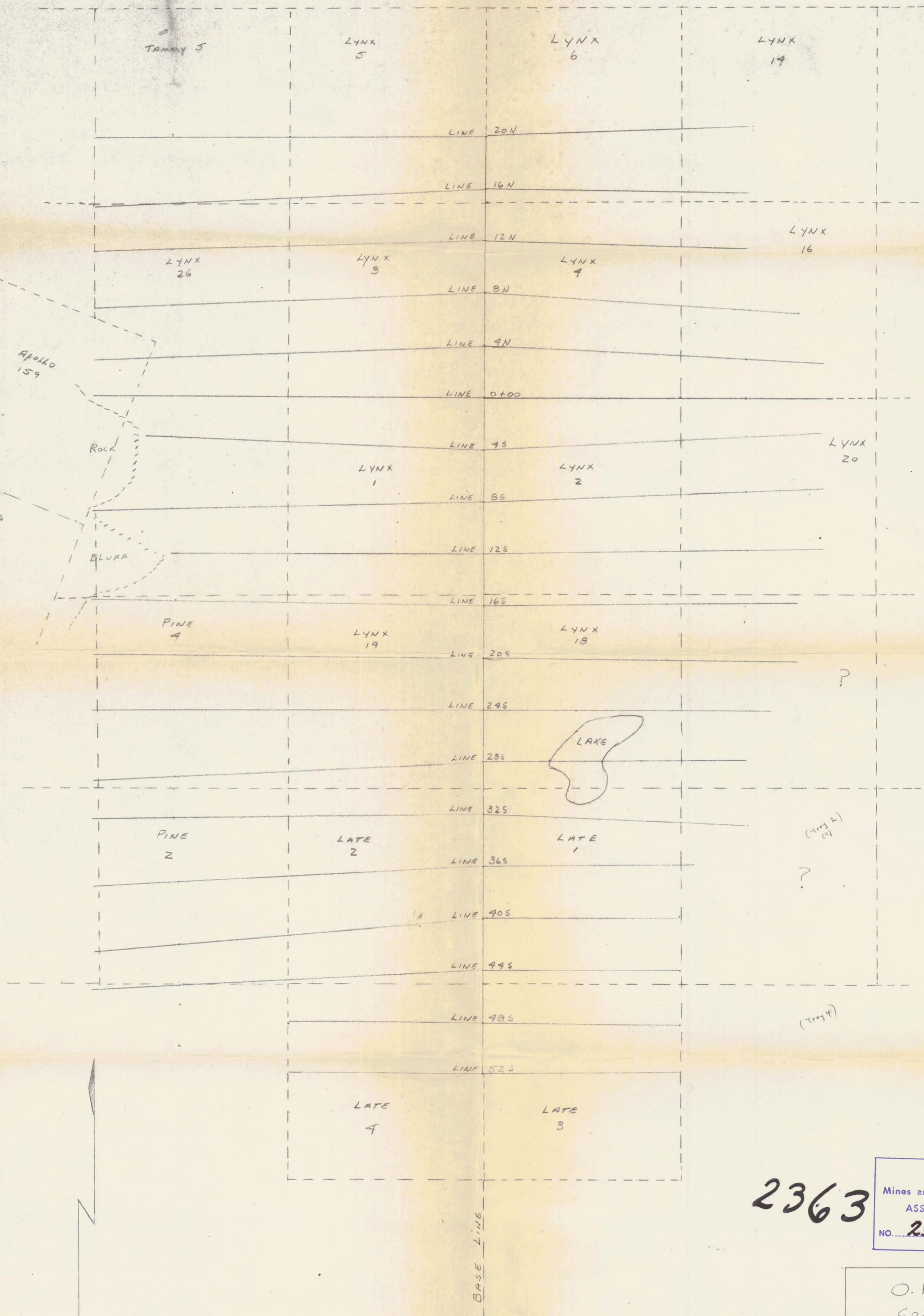
Declared before me at the *City*  
of *Vancouver*, in the  
Province of British Columbia, this *4*  
day of *May* 1970, A.D.



*Julie Turner*  
A Commissioner for taking Affidavits for British Columbia or  
A Notary Public in and for the Province of British Columbia.

★o

Sub-mining Recorder



MAG. NORTH

AJAX MERCURY  
MINES LTD.  
CONTRACT

2363  
 Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 2363 MAP #1

O.K. FALLS  
 COMPLETED  
 I.P. GRID LINES  
 SCALE 1" = 400'  
 LAMBERT MINING  
 SERVICES LTD.