

92I/2W  
REPORT

MAGNETOMETER SURVEY

GOVERNMENT AGENT  
**RECEIVED**

DEC 14 1973

on the

**HAWK** Mineral Claims

**MERRITT, B. C.** 4767

121° 22' W. Long.; 50° 11' N. Lat.

Nicola M. D.

Province of British Columbia

by

Fred Kern, Jr.,  
Geologist

6 December, 1973

4767

R E P O R T

of

MAGNETOMETER SURVEY

on the

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50

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 4767	MAP.....

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"A" Line - 2400 N

Base Line = 0-0 N-S

"O" Line = E-W

## INTRODUCTION

In order to further evaluate an area of interest located in the southern portion of the block of mineral claims known as the "Hawk Claims" owned by Red River Mines Ltd., (NPL) of 210 - 535 Howe Street, Vancouver, B. C., the author, accompanied by one helper, visited the area November 14th and 15th, 1973. One day was spent in reconnaissance, locating the base lines and basic orientation procedures. A heavy snowfall prevented return to the property the next day, but it was decided that a Magnetometer survey should be conducted over the anomalous area.

## PROCEDURES

The writer, accompanied by an assistant, returned to the property with an MF-1 fluxgate magnetometer (SCINTREX Serial No. 702253) on November 26, 27, and 28 and proceeded to conduct the survey over interesting portions of Hawk No. 18 and Hawk No. 20. The survey consisted of establishing a grid, (tied to Base Line 0-0) and marking 100' intervals on lines 1000" in length, and taking readings at the 100' intervals on that grid. In addition, two reconnaissance surveys were made by compass and pace (one appears on the map Fig. 4) to help to establish magnetic patterns of the area.

GEOLOGICAL SETTING

The HAWK group of claims are located in the broad mineralized province that extends from north-central Washington State through ~~the~~ Princeton, Highland Valley, and across the Thompson River.

Throughout this belt intrusive bodies of granitic-granodioritic, etc., rock material have been injected into Upper Triassic formations of the region, locally, the Nicola Series. One of the largest, (and one noted for its mineralization of chiefly copper sulfides) is the Guichon Batholith. This unit extends from the north border, approximately, of the Hawk group to the Cache Creek area on the north, and to the vicinity of the Thompson River on the West. The Nicola Series consists, predominately of interbedded volcanics of various textures and compositions. Included in the Series are sedimentary members, usually mapped as grits, greywackies and limestones.

In the Hawk property, several sedimentary members, chiefly limestone and limestone-derived formations retain characteristics sufficiently to be of considerable importance in structural studies of the claims, and, although this

property has been examined previously, mapping of structure (of primary importance in prospects of this type) seemingly, as all mapping here, was done on a very sketchy basis, and was limited to one localized area, about a half-mile from the present areas of interest. It is recommended that a mapping program be conducted when more favorable weather conditions permit.

#### RESULTS AND RECOMMENDATIONS

It is apparent that a strong magnetic anomalous condition exists in this area of the HAWK group. Relative readings from -4 through 0 to +6, times a common factor taken as 1000 gamma for this survey, with the instrument used, indicate conditions warranting further evaluation, particularly to the southwest of the zone covered in the present report.

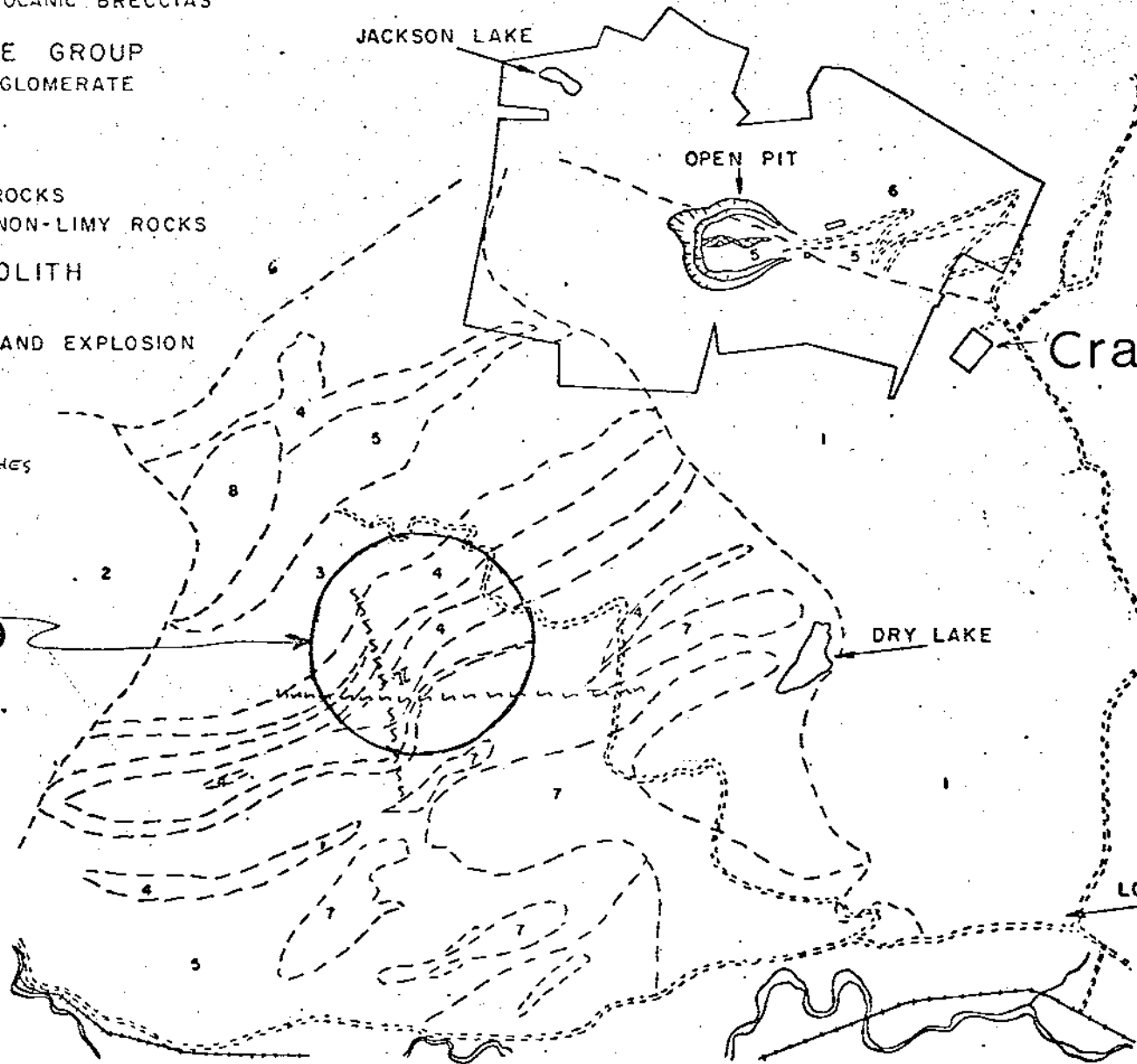
It is recommended that the entire area be gridded and surveyed magnetically. Following, geological mapping and geochemical sampling be conducted, to locate drill targets for diamond or percussion drilling.

# LEGEND

- 1 KINGSVALE GROUP  
ANDESITE FLOWS AND VOLCANIC BRECCIAS
- 2 SPENCES BRIDGE GROUP  
BASIC FLOWS AND AGGLOMERATE
- 3 NICOLA GROUP  
FELDSPATHIC ROCKS
- 4 LIMY, AND NON-LIMY ROCKS
- 5 UNDIFFERENTIATED NON-LIMY ROCKS
- 6 GUICHON BATHOLITH
- 7 COYLE STOCK
- 8 QUARTZ PORPHYRY AND EXPLOSION BRECCIA

--- FAULT  
 ||| "TAYLOR PIT" TRENCHES

Hawk Group



LOWER NICOLA

Craigmont

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 Mines and Petroleum Resources

ASSESSMENT REPORT  
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 MAP #2

## GEOLOGY OF PROMONTORY HILLS AREA

BY J.M. CARR

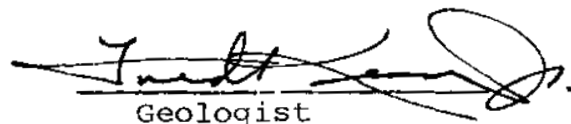
STATEMENT OF QUALIFICATIONS

I Hereby certify:

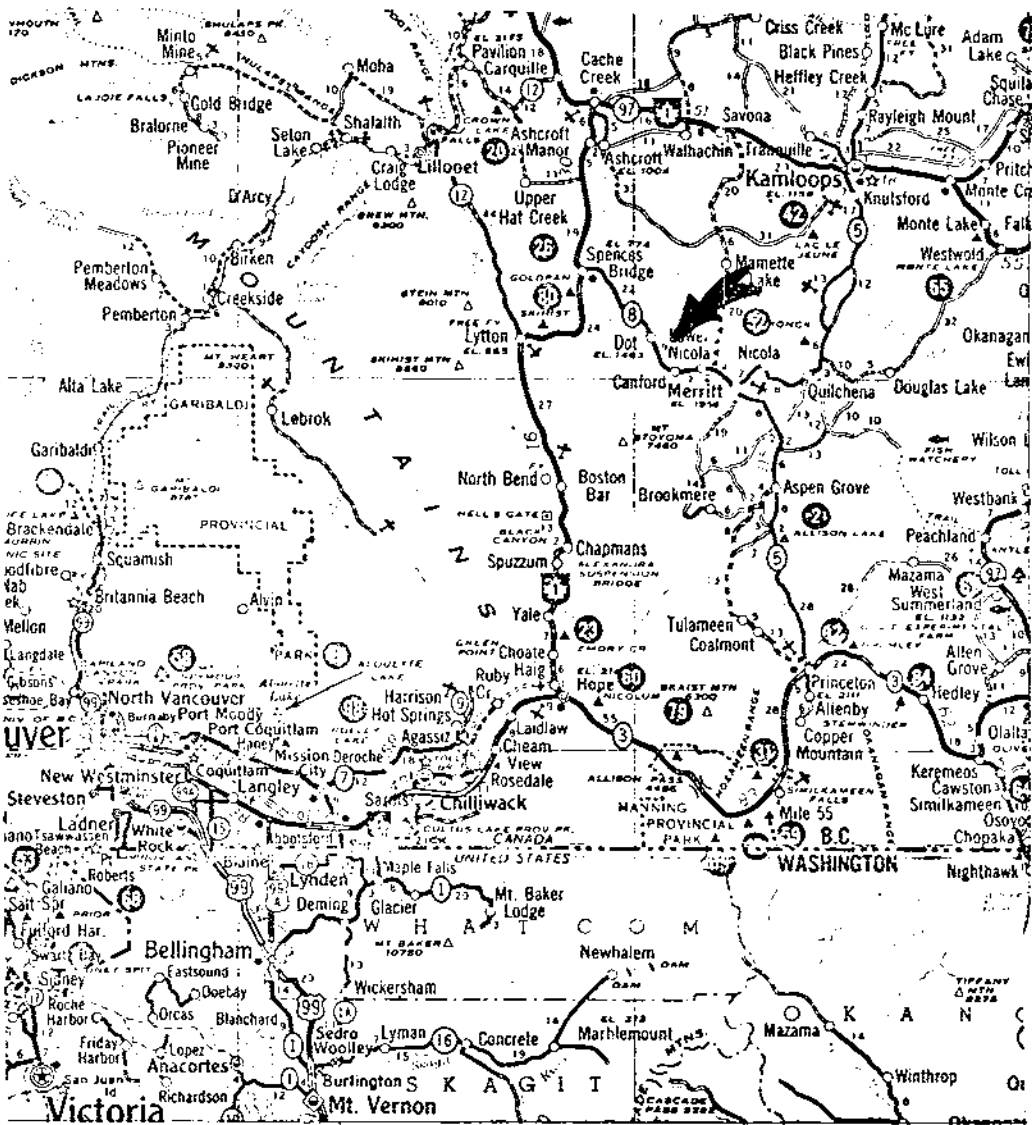
1. That I hold the B. Sc., GEOLOGY, from the University of Illinois, 1948.
2. That I have practiced my profession intermittently since graduation.
3. That I have been employed by major and minor mining and petroleum exploration companies in North America, South America, and Africa.
4. That the work of the present report was done by me or under my direct supervision.

Vancouver, B. C.

7 December, 1973

  
Geologist

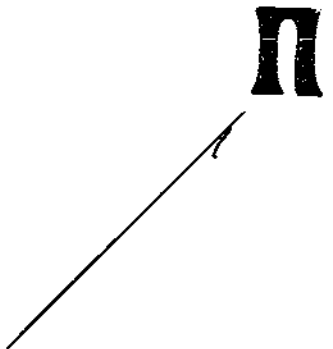
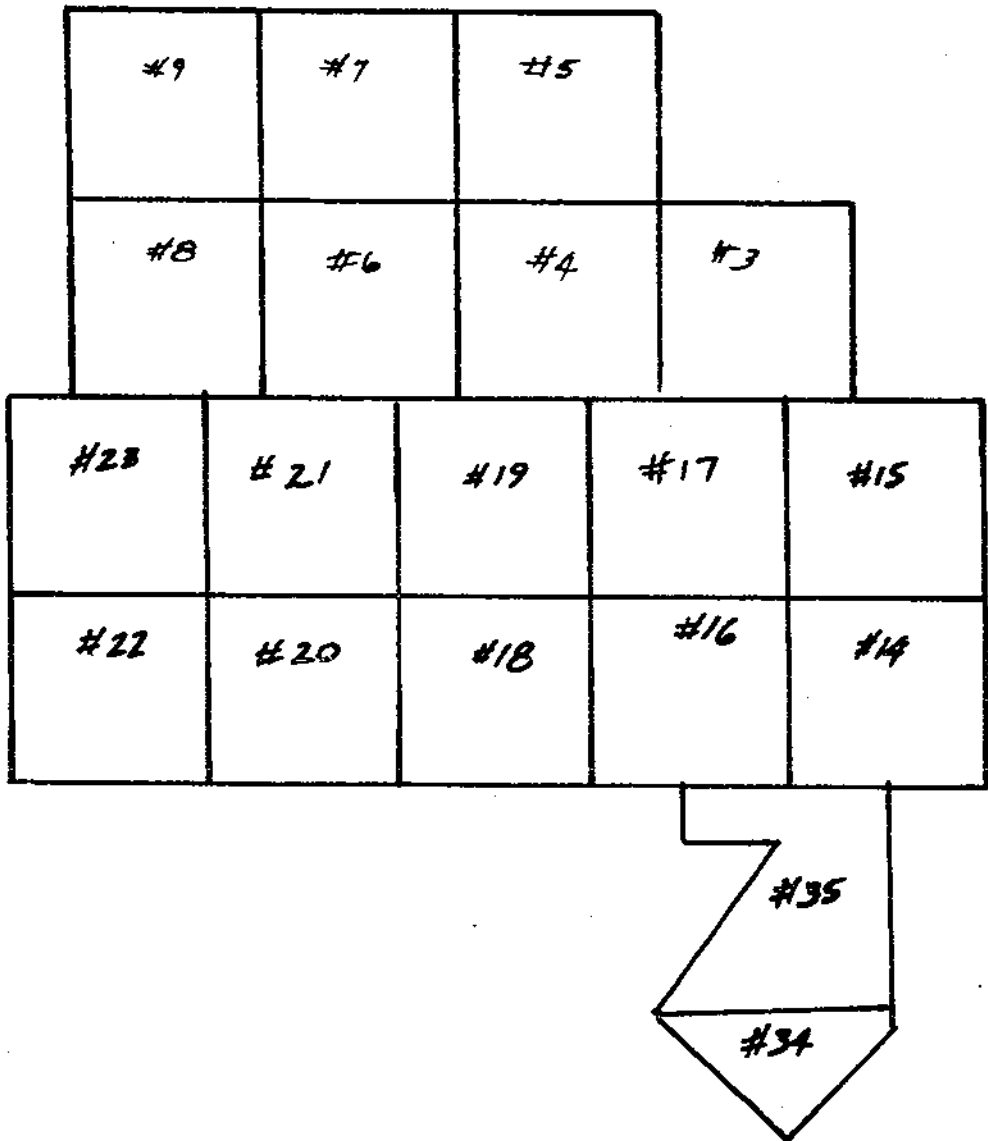




KEY MAP SHOWING LOCATION OF HAWK MINERAL CLAIMS, MERRITT, B.C.

Department of  
 Mines and Petroleum Resources Fig. 1  
 PRELIMINARY REPORT  
 NO. **4767** MAP **#1**

Department of  
 Mineral and Surface Resources  
 METEOROLOGICAL REPORT  
 NO. 4767 MAP #3



RED RIVER MINES, Ltd.  
 HAWK m. cs.  
 Nicola M D.

Fig. 3

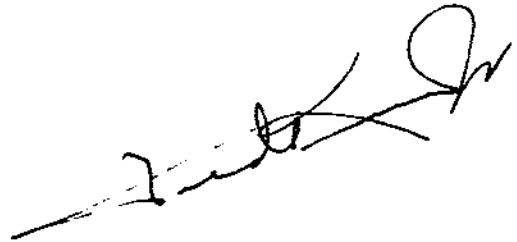
11/15

STATEMENT OF EXPENDITURES

Magnetometer Survey, HAWK Mineral Claims

1. Geologist	\$600k
2. Helper	150
3. 4x4 Truck Rental	125
4. Mileage (1550 mi @ 10¢)	155
5. Meals & Lodging	150
6. Snowmobile rental	55
7. Magnetometer rental	100
8. Printing & secretarial	<u>50</u>

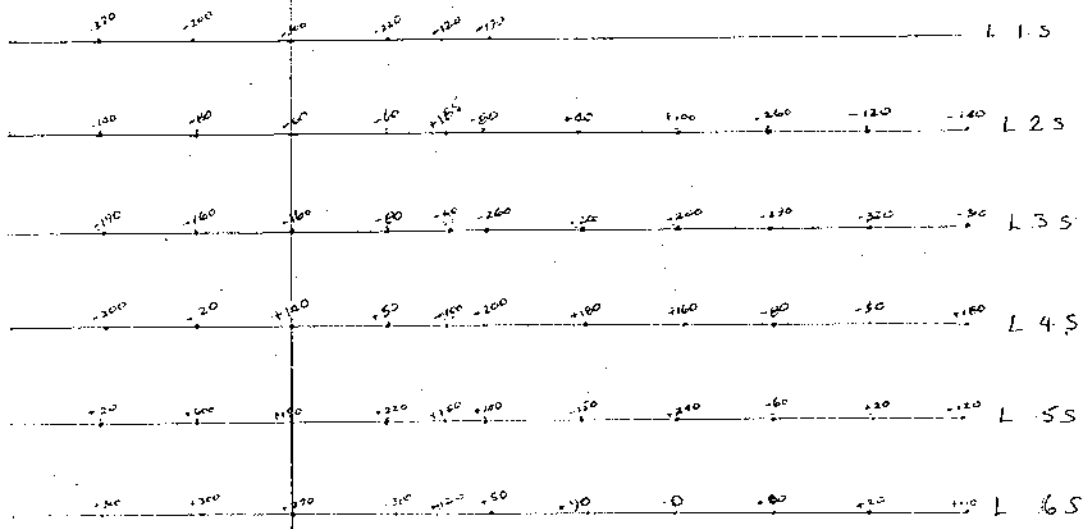
\$1385.00

A handwritten signature in black ink, appearing to be "J. K. J.", is written diagonally across the lower right portion of the page.

HAWK No 20

HAWK No 18

Base Line 6000 ft



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Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4767 MAP #4

RED RIVER MINES, LTD.

HAWK CLAIMS

Nicola M. D.

Magnetometer Survey

Scale: 1" = 100'

+200 = gamma (x10) Assumed

Handwritten signature and date: 4/79



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Mines and Geology Resources

Annual Report

NO. 4767 #5