

# 5204

# 82E/11E

GEOCHEMICAL REPORT

ON

MOLYBDENUM, COPPER, ZINC - SOIL SAMPLING

CARMI PROPERTY, GREENWOOD MINING DIVISION

Map Reference 82E-11

Latitude 49°32'N - Longitude 119°10'W

### CLAIMS

DOE 1 - 4  
IVY 1,2,3Fr,6Fr.  
WILK 1 - 4  
HUCK 1

LINDA 4  
MARY O 16,18,24,25  
LANG 1,2Fr.  
MY 11-16,21-30

Owned and Operated By

VESTOR EXPLORATIONS LTD.

by

John A. Greig, P.Geol.

October 10, 1974

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 5204	MAP

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## INTRODUCTION

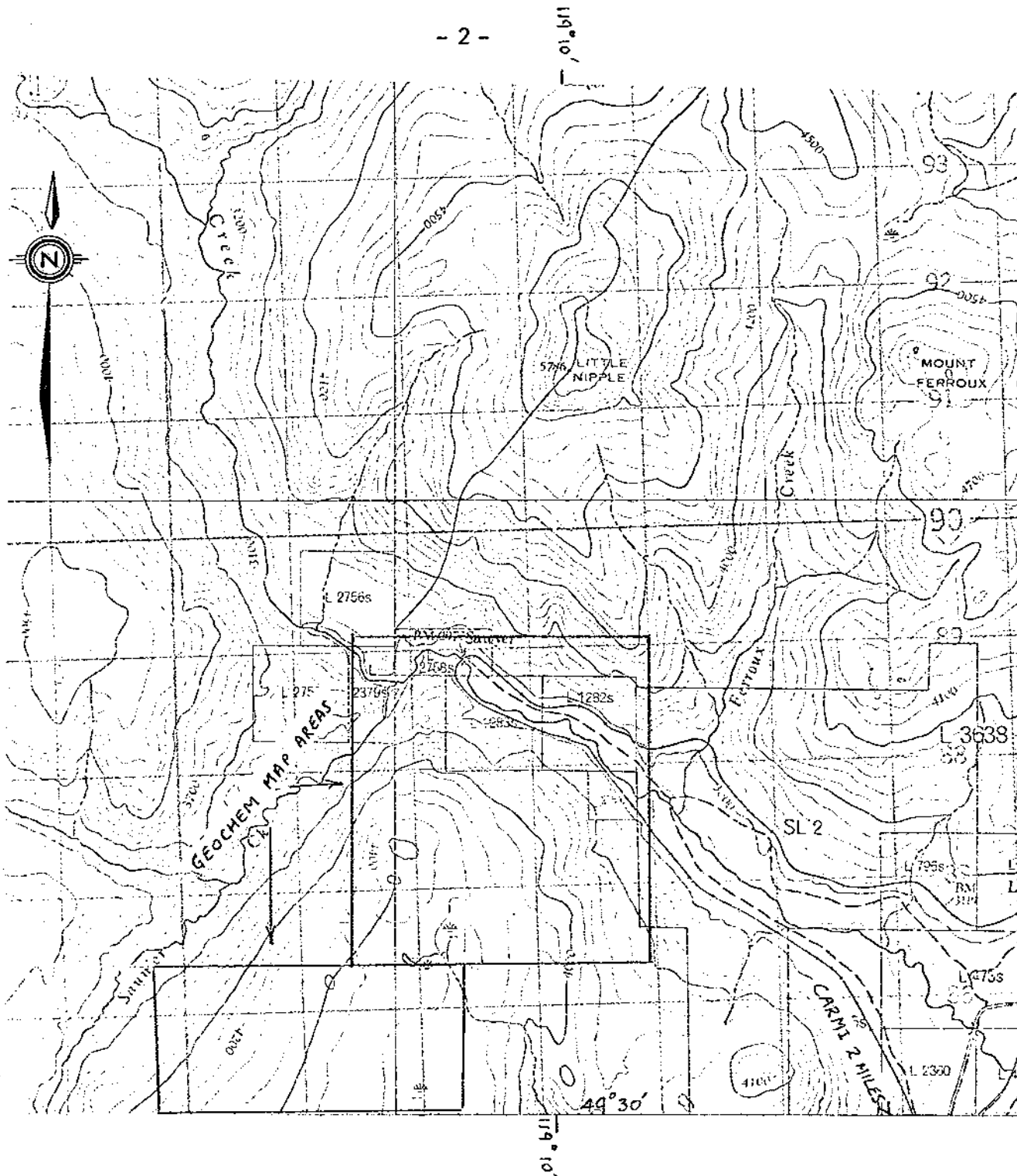
The soil sampling program covered by this report is part of a continuing geochemical program. The work was carried out in the period June to October, 1974 by personnel of Vestor Explorations Ltd. All but four of the claims are owned by Vestor Explorations Ltd. The four claims (DOE Claims) are owned jointly by Vestor and Kennco Explorations, (Western) Ltd. of Vancouver.

## LOCATION AND ACCESS

The area of sampling is about 3 miles NW of Carmi, B.C., Greenwood Mining Division, NTS 82E-11, latitude 49°32'N, longitude 119°10'W. Carmi is approximately 50 miles by paved highway from Kelowna and access to the property from Carmi is by gravel road, normally passable 10 months of the year. A regularly maintained CP railway passes through Carmi. The property covers part of a plateau at an elevation of 4,400' above sea level. The plateau is about 1,000' higher in elevation than the adjacent valleys.

## FIELD SAMPLING PROCEDURE

Samples collected on the northerly of the two geochem grids, (Index map & maps 2-4 incl.), were collected on grid lines extended north and south by pace and compass from a pre-existing surveyed base line. For the southerly grid area, samples were collected along claim lines or on pace and compass lines between claim lines (see Map 5). In both areas sampling lines were flagged and all sample locations were clearly marked. Soil samples were taken at a depth of about 1 foot, the B soil horizon. Samples were analyzed for molybdenum, copper and zinc. Except for the western half of the northern grid area where samples were run for molybdenum and copper only.



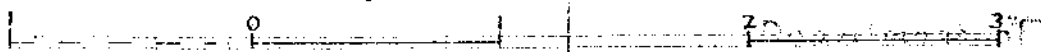
# WILKINSON CREEK

SIMILKAMEEN DIVISION OF YALE DISTRICT

BRITISH COLUMBIA

NTS 82E - 11

SCALE 1:50,000 ÉCHELLE



Mines and Geoscience Resources

ASSESSMENT REPORT

MAP 1  
Index Map

NO. 5204 MAP #1

## LABORATORY ANALYTICAL PROCEDURE

Samples were analyzed by Loring Laboratories Ltd., of Calgary, Alberta. All field samples were dried at 100°C overnight, then screened to -80 mesh.

For molybdenum, a 500 milligram sample was weighed and heated in a muffle to 550°C to oxidize organics. The sample was then digested in aqua regia for three hours at 100°C in a water bath. The solution was then cooled. Three ml. of aluminum chloride solution added, and the solution made up to 10 ml. with distilled water. This was then shaken and allowed to settle overnight. The supernatant liquid was then used for atomic absorption analysis for molybdenum. Aluminum chloride has the effect of enhancing the molybdenum atom; preventing it's direct conversion to  $\text{MoO}_3$  in the flame.

For copper and zinc the same procedure was used as for molybdenum except that no aluminum chloride is necessary.

## INTERPRETATION

This section on interpretation applies to the northern geochem grid only. The sampling program on the wouthern grid was intended as a reconnaissance program only and samples are too widely spaced to contour or to interpret meaningfully.

Background molybdenum for the area is about 3 ppm. Molybdenum values ranged from 1 to 145 ppm. Values of 30 ppm molybdenum or higher are known to correspond with mineralized bedrock in the area. Higher zinc and copper values in soils appear to be coincident with molybdenum mineralization in bedrock, although the higher zinc values appear to outline the boundary of the mineralized area.

At least two large molybdenum anomalies were delineated within the north grid. One is approximately 2,400 feet in length by about 700 feet at it's greatest width and occurs on claims DOE 3, DOE 4 and IVY 6 fraction (see Map 2). The anomaly is not intense, however this may be due to a seal of impermeable clays

which have been exposed by trenching in the area. Trenching also shows this area to be underlain, at least in part, by mineralized bedrock.

A second anomaly 1000' x 400' occurs on the LINDA 4 claim where molybdenum values rang up to 145 ppm. This anomaly is entirely open to the northwest, i.e. it's full extent is unknown. Trenching and drilling prove the anomaly is related to mineralized bedrock. Mineralized bedrock exposed by trenching is estimated to average about 0.15% molybdenum.

### CONCLUSIONS

1. Molybdenum values of greater than 30 ppm are known to reflect underlying mineralized bedrock.
2. The molybdenum is quite immobile in this environment, e.g. values in soils drop abruptly to background in a sample traverse across the contact from mineralized to non-mineralized bedrock.
3. Conceivably some mineralized areas may exist but are not reflected in the geochemical results, e.g. such as where thick impermeable clays obscure the geochemical response.

Respectfully submitted



John A. Greig, P. Geol.



October 10, 1974

CERTIFICATE

I, John A. Greig, with business and residential addresses in Edmonton, Alberta do hereby confirm that:

1. I am a graduate of McGill University, (B.Sc.(Hon.) Geology, 1964) and the University of Alberta, (M.Sc. Geology, 1972).
2. I am a registered Professional Geologist of the Province of Alberta.
3. From 1964 until the present I have been engaged in mining exploration in British Columbia, Yukon, Northwest Territories, Alberta, Saskatchewan, Manitoba and Ontario, and since 1969 I have been a Director and Officer of Vestor Explorations Ltd., which company is engaged in mineral exploration.
4. Through much of the period, April to September, 1974, I worked in a supervisory capacity on the property of which the subject claims are a part and I did oversee the geochemical program described in this report.

Respectfully submitted



John A. Greig, B.Sc., M.Sc., P.Geol.



VESTOR EXPLORATIONS LTD.

SCHEDULE OF EMPLOYEES

CARMI PROPERTY

<u>Name &amp; Address</u>	<u>Period Worked</u>	<u>Salary Rate</u>
Glenn S. Hartley 7319 - 89 Street Edmonton, Alberta	April 1 - Sept. 30/74	\$850/mo.
Brian Meyer 75 Furrman Crescent Regina, Saskatchewan	April 15 - August 23/74	\$450/mo.
Oakley Michelin P.O. Box 23 Happy Valley, Labrador	August 21 - October 1/74	\$450/mo.
Michael McDonald P.O. Box 51 Porquis Jct., Ontario	August 28 - October 1/74	\$400/mo.
John A. Greig #1502, 11111 - 87 Avenue Edmonton, Alberta	April 20 - May 10/74 June 9 - 23/74 July 22 - September 10/74	\$1499/mo.
Anthony Rich #1502, 11111 - 87 Avenue Edmonton, Alberta	April 10 - May 5/74 May 29 - June 30/74 July 15 - September 10/74	\$1499/mo.





MAP3

VESTOR EXPLORATIONS LTD.  
COPPER IN SOIL (PPM)

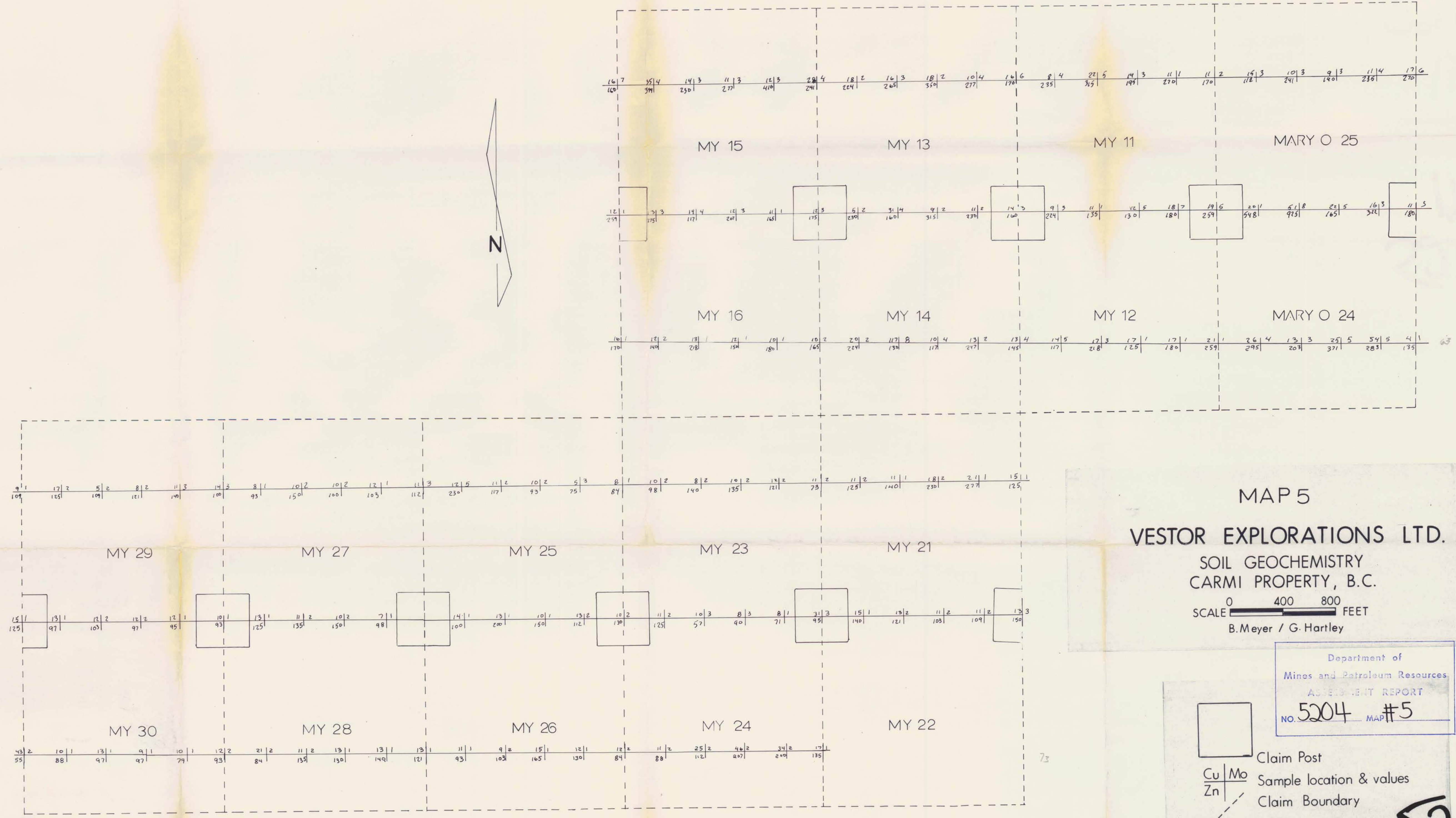
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CARMI PROPERTY, B.C.  
SCALE 0 400 800 FEET



*J. M. King*  
October 10 1974

5204  
M3



MAP 5  
VESTOR EXPLORATIONS LTD.  
SOIL GEOCHEMISTRY  
CARMİ PROPERTY, B.C.  
SCALE 0 400 800 FEET  
B. Meyer / G. Hartley

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Claim Post  
Sample location & values  
Claim Boundary



October 10 1974

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MAP



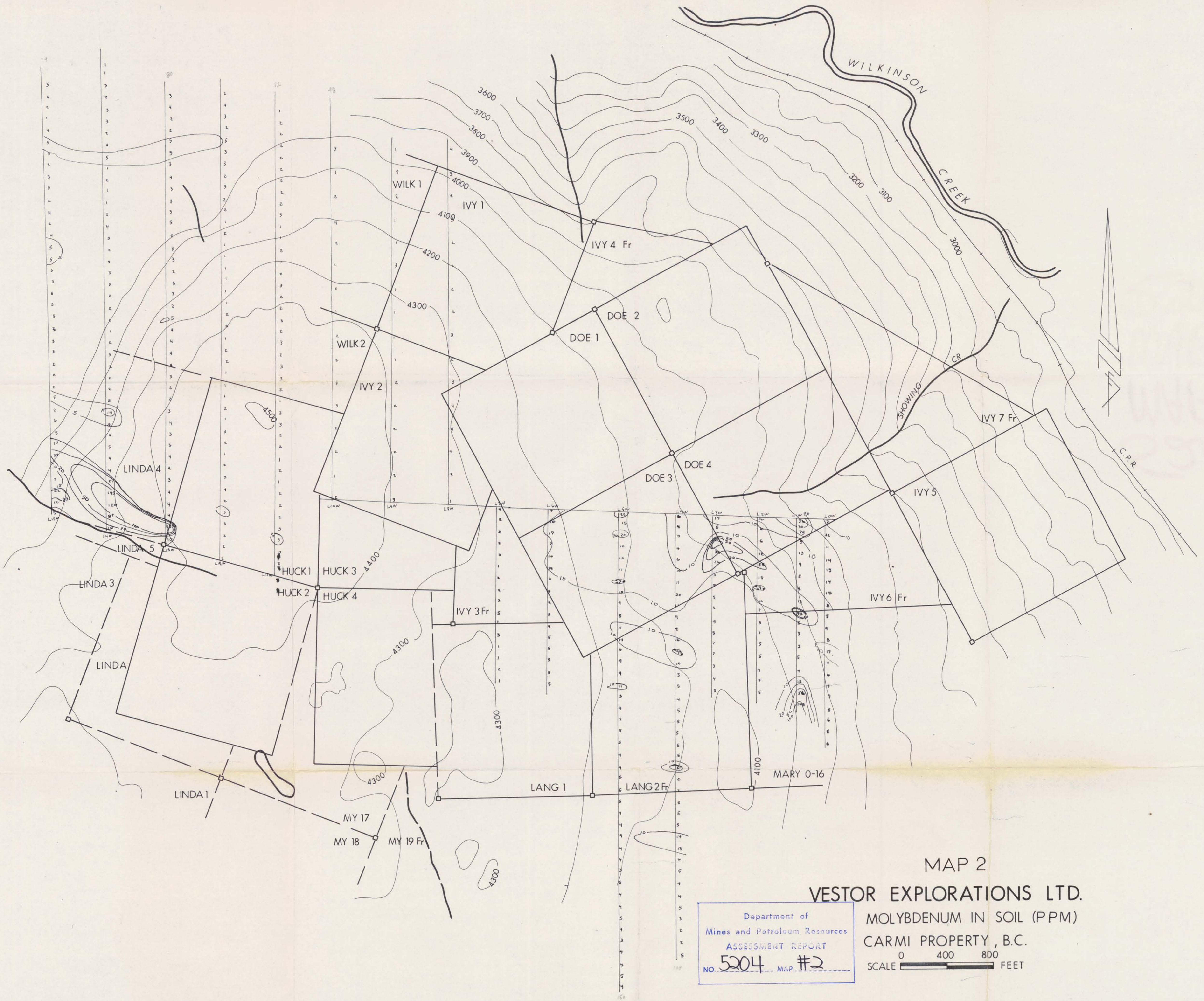
MAP 4  
 VESTOR EXPLORATIONS LTD.  
 ZINC IN SOIL (PPM)  
 CARMİ PROPERTY, B.C.  
 SCALE 0 400 800 FEET

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*J. M. Smith*  
 October 10 1976

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 M4



MAP 2  
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MOLYBDENUM IN SOIL (PPM)  
 CARMi PROPERTY, B.C.  
 SCALE 0 400 800 FEET

*J. Murray*  
 October 10 1974

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 MAP 3