

GEOLOGICAL AND GEOCHEMICAL  
ASSESSMENT REPORT  
ON THE  
FIVE METALS #1 MINERAL CLAIM  
IN THE  
NELSON MINING DIVISION  
NTS LOCATION 82F/10 E  
LATITUDE 117°15' LONGITUDE 49°48'  
ON BEHALF OF  
ROBIN W. PEARSON

REPORT BY: *R. W. Pearson*  
PEARSON GALLAGHER LTD.

JULY 1981

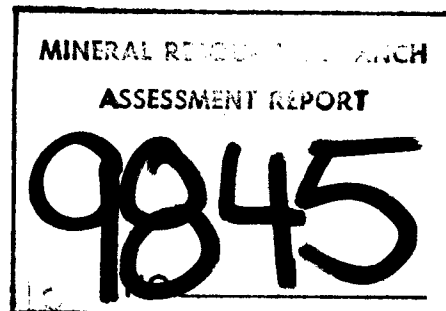


TABLE OF CONTENTS

LOCATION MAP..... Page 1  
LOCATION AND ACCESS..... Page 3  
INDEX MAP..... Page 2  
PROPERTY INFORMATION..... Page 3  
GENERAL SETTING..... Page 3  
GEOLOGY..... Page 4  
PROCEDURES..... Page 4  
INTERPRETATION AND RECOMMENDATIONS..... Page 4  
GEOLOGICAL AND GEOCHEMICAL MAPS..... Envelope  
ASSAY RESULTS..... Pages 5 and 6  
ITEMIZED COST STATEMENT..... Page 78  
AUTHOR'S QUALIFICATIONS..... Page 87



PEARSON GALLAGHER LTD  
 LOCATION MAP of  
 FIVE METALS NO.1  
 MINERAL CLAIM  
 NELSON MINING DIVISION  
 BC

LOCATION AND ACCESS

The Five Metals Mineral Claim is located at the head of Houghton Creek (a tributary of Crawford Creek) and approximately 4 miles east of the town of Gray Creek.

Access to the claims is by helicopter (as was used for this report) or by road from Gray Creek along the power line access road for approximately 9 kms to a cabin. From the cabin to the southern boundary of the claim is a 1.5 km walk in a northerly direction.

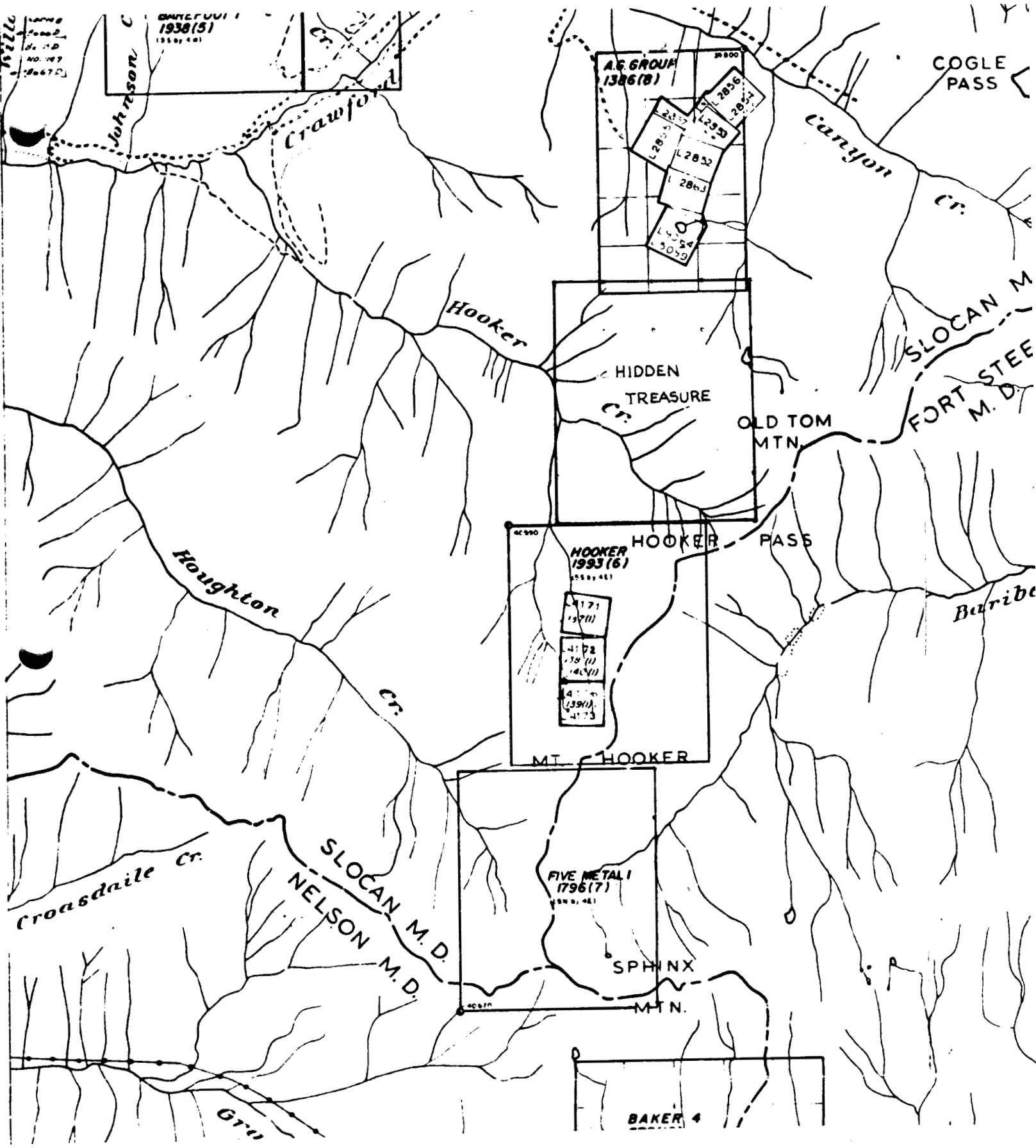
PROPERTY INFORMATION

The area covered by the Five Metals claim was originally staked in 1907. Since then, the claims have lapsed and been restaked several times. In July of 1980, Robin W. Pearson staked the 20 unit Five Metals #1 claim, Record #1796 (7).

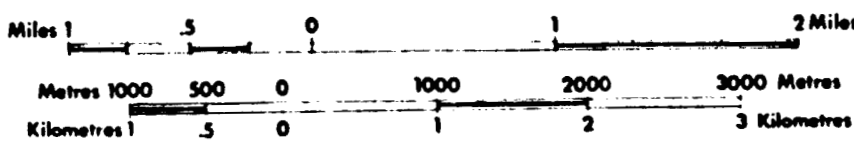
GENERAL SETTING

The Five Metals #1 mineral claim is situated on the ridge between Sphinx and Hooker Mountains in the Purcell Mountain Range in southeastern B.C. The elevation of the claim is from 5,700 feet to 8,000 feet above sea level. The terrain is rugged with coniferous forest below treeline, approximately 7,000 feet above sea level.

The claim covers the contacts between the Monk Formation (consisting of argillite, phyllite, argillaceous schist, argillaceous quartzite, minor limestone and conglomerate), the Toby Formation (consisting of conglomerate, minor interbedded argillite and limestone) and the Dutch Creek and Mount Nelson Formations (consisting of laminated argillite, magnesium limestone and quartzite.)



M82F/10E



## GEOLOGY

The claim covers the contact of conglomerates of various compositions and is overlain by dolomitic strata interbedded with shales, phyllites and sandstones of varying grain size and composition. It may be noted that the Monk Formation of the Salmo area on Map 1090A Nelson Map Area West Half by H.W. Little continues and is shown on Map 603A Nelson Map Area East Half by H.M.A. Rice as Horsetheif Creek Series.

Mineralization occurs as veins cross-cutting stratigraphy and bedded stratiform barite deposits which may contain metalliferous minerals. The veins contain quartz, siderite, galena, sphalerite and some carbonate and tetrahedrite. There is also a magnetite iron deposit on the southern portion of the claim.

## PROCEDURES

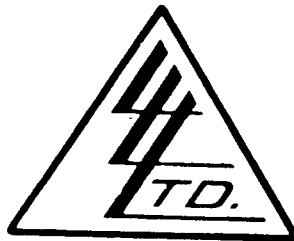
In July and August of 1980, the author accompanied by another prospector and project geologist visited the property by helicopter three times. Rock samples were taken from the showings in the trenches and adit. (map in envelope) The results are shown on pages 5 and 6. In September of 1980, Amoco Canada established a small grid, geologically mapped and geochemically samples a portion of the claim. Maps are shown in this report. (envelope in back)

## INTERPRETATIONS AND RECOMMENDATIONS

We recommend that further development work on the property in the form of the following:

- 1) Further geological mapping and sampling at a scale of not less than 1:5000
- 2) Further detail soil geochemical survey in the area of the showing.
- 3) Geophysical survey in the southern portion of the claim to delineate the conductive zone.
- 4) Diamond drilling if suitable targets are outlined.

To: COCHRANE OIL & GAS LTD.,  
1400, 44th - 5th Avenue S.W.,  
Calgary, Alberta T2P 2T8



File No. 20510  
Date November 3, 1980  
Samples Rock Chip

ATTN: G. Evans

Certificate of  
ASSAY of  
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn	% Ba
"Rock Chips"						
7744	.010	.63	-	.12	.01	45.67
7745	.010	2.65	-	10.99	10.64	-
7746	.010	.59	-	.14	.15	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

*D. E. [Signature]*  
Assayer



DATE ... August 14, 1980 .....

**Province of British Columbia**  
**Ministry of Energy, Mines and Petroleum Resources**

SAMPLE RECEIVED FROM ..... DAN GALLAGHER ..... Page 2 .....

ADDRESS ..... 280. Baker. Street, Nelson, B. C. ....

LABORATORY NO.	SUBMITTER'S MARK	LABORATORY REPORT
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3761

4448 E  
 FIVE METAL U.T.

Spectrographic Analysis: Lead; Zinc and 0.15% Cadmium were found. No Tungsten or Tin was detected. The other base metals found, and their percentages, were those occurring normally in rocks.

Gold - 0.02 oz. per ton  
 Silver - 2.6 oz. per ton  
 Lead - 12.5%  
 Zinc - 1.53%

THIS DOCUMENT, OR ANY PART THEREOF, MAY NOT BE REPRODUCED FOR PROMOTIONAL OR ADVERTISING PURPOSES.

LEGEND

- T - TRACE
- M.C. - MAJOR CONSTITUENT
- N.D. - NOT DETECTED
- P - PRESENT

*W.M. Johnson*  
 CHIEF ANALYST



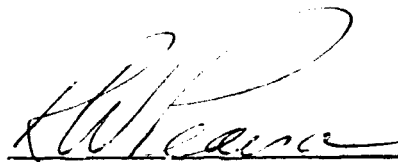
AUTHOR'S QUALIFICATIONS

I, Robin W. Pearson, certify that I am a geophysical instrument operator-technician with eighteen (18) years experience operating all types of geophysical equipment throughout the world.

My past employers include Kenting Earth Sciences and McPhar Geophysics and included in the previous work was experimental geophysical work with base metals and coal.

I have been a self-employed prospector and mining exploration contractor for the past seven years.

Signed:

A handwritten signature in cursive script, appearing to read 'R. W. Pearson', is written over a horizontal line.

Robin W. Pearson

ITEMIZED COST STATEMENT

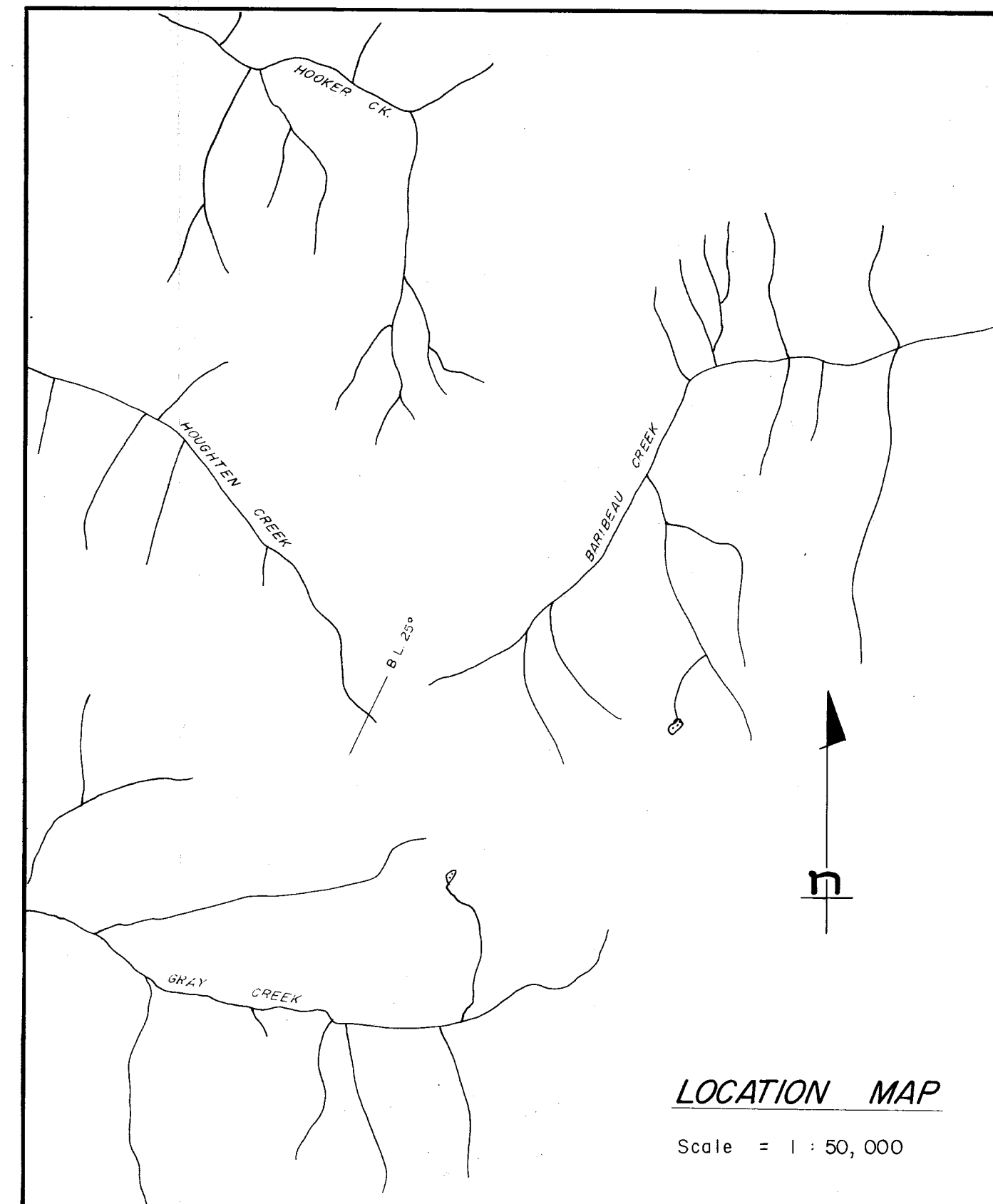
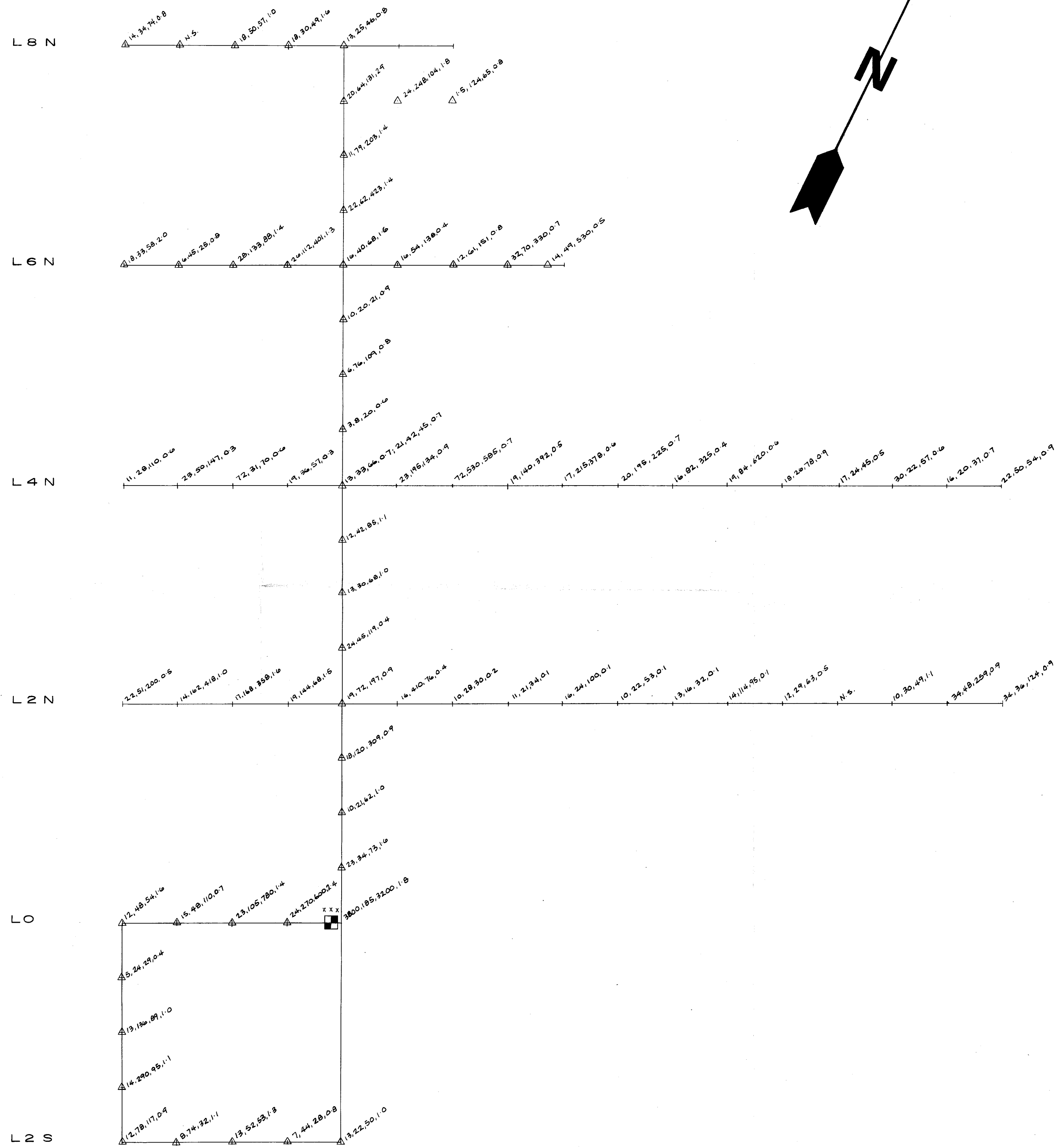
Geological

1 prospector for 3 days (July 22, Aug 4 and Aug 15) @ \$225./day .....	\$ 675.00
1 prospector for 3 days (July 22, Aug 4 and Aug 15) @ \$200./day .....	600.00
1 project geologist (July 22) @ \$300./day .....	300.00
1 geological map (includes field mapping, drafting and office work .....	700.00
Helicopter fees for 3 days - Nelson to Five Metals return .....	1,693.00

Geochemical

Establishment of grid - 7.4 line km @ \$100./km .....	740.00
Soil sampling - 2 days, 2 field thchnicians @ \$175./day .....	700.00
72 geochemical analyses for Cu, Pb, Zn, Ag @ \$4.00/sample .....	288.00
Drafting map with results .....	150.00
Helicopter fees - 3 days Nelson to Five Metals return .....	<u>1,731.00</u>

TOTAL	<u><u>\$7,577.00</u></u>
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**LEGEND**

△ 34,36, 124,0-9  
Cu, Pb, Zn, Ag

■ Mineral Showing

MINING RESOURCES BRANCH  
ASSESSMENT REPORT  
**9845**

**AMOCO CANADA PETROLEUM CO. LTD.**



MINING DIVISION

NELSON PROJECT  
B. C.  
FIVE METALS PROSPECT  
**GEOCHEMICAL RESULTS**

Drawn By	m. j. jamshedji	Scale - meters	0 ————— 50
Date	September 1980	Project No.	79C-003

