

GEOCHEMICAL REPORT
SCREECHING CAT CLAIM

TRAIL CREEK M.D.

82E / 8E

Lat. $49^{\circ} 17'$ Long. 118°

Bradford D. Pearson, P. Eng.

Owner, Operator, Author

Submitted March 7, 1980

MINERAL RESOURCES BRANCH ASSESSMENT REPORT 7873 NO. _____
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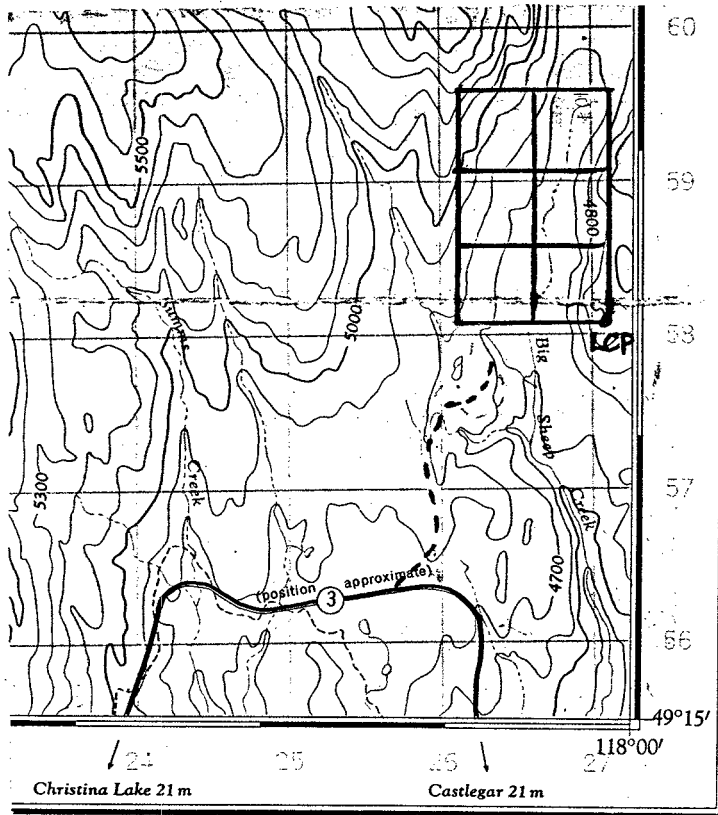
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INTRODUCTION

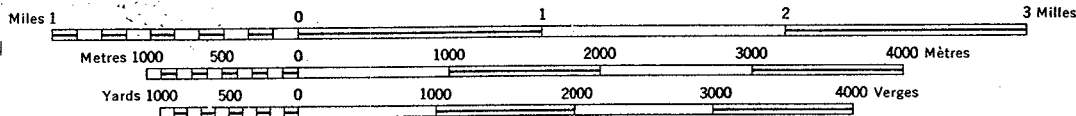
The Screeching Cat Claim is situated on the gently rolling uplands of the Southern Monashee Mountains between Castlegar and Christina Lake. It lies in the headwaters of Big Sheep Creek at an elevation of approximately 4800'. Access to the claim is by logging spurs on Cutting Permit #9 on the north side of the Southern Transprovincial Highway (Route 3). (See Index Map, Fig. 1).

The property covers ground formerly covered by the Ram and Wewa claims. (See Assessment Report 5326). Work on those claims was carried out by Brascan Resources, Ltd. during 1974 in order to ascertain the cause of a pronounced molybdenum anomaly originally discovered by William Botel and Heinz Veerman while sampling sediment along Big Sheep Creek. The work, which consisted of soil sampling, magnetometry and cursory geological mapping, was confined almost entirely to the east bank of the creek. It was unsuccessful in determining the source of the anomalous values in the stream sediments.

The ground was restaked in 1978 by Michael Fox, working under contract for the present owner. A geochemical survey was carried out during the period July 6 - July 10, 1979 in order to better characterize the geochemical nature of the ground on the hitherto neglected west side of the creek.



SCALE 1:50,000 ÉCHELLE

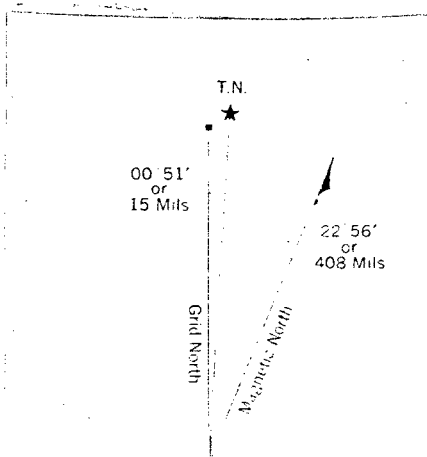


CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

MAGNETIC DECLINATION 22°05' EAST
AT CENTRE OF MAP 1963
Annual change (decreasing) 2.9'

ÉQUIDISTANCE DES COURBES: 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Réseau géodésique nord-américain unifié (1927)
Projection transverse de Mercator

DÉCLINAISON MAGNÉTIQUE AU CENTRE
DE LA FEUILLE EN 1963: 22°05' EST
Variation annuelle (décroissante) 2.9'



Use diagram only to obtain numerical values.
APPROXIMATE MEAN DECLINATION: 1963
FOR CENTRE OF MAP
Annual change decreasing 2.9'

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

118°30' 49°45'	82 E/9 W	82 E/9 E	82 F/12 W	117°45' 49°45'
	82 E/8 W	82 E/8 E RENATA	82 F/5 W	
	82 E/1 W	82 E/1 E	82 F/4 W	
49°00' 118°30'				49°00' 117°45'

INDEX TO ADJOINING SHEETS OF THE NATIONAL TOPOGRAPHIC SYSTEM

Index Map Fig. 1

RENATA

82 E/8 E

EDITION 1

This survey involved the collection of 152 soil samples and 18 samples of sediments. Samples of a poorly developed B soil horizon were taken at depths of approximately 10" at intervals of approximately 30 Meters along east - west lines spaced approximately 90 meters apart. Sediment samples were taken where the lines intersected drainages. The grid was developed using a nylon chain and Brunton compass, and was tied in to the LE post of the Screeching Cat Claim, which is located 10 meters east of Big Sheep Creek. Grid numbering was referred to the creek on Lines 0 and 3, but the curvature of the creek and the discovery of an old north-south claim line made it advantageous to refer subsequent east - west lines to the old claim line.

Samples were sent to Min En Labs of North Vancouver. With the exception of two sediment samples which were sieved to -40 mesh, all samples were sieved to -80 mesh. A portion of each was dissolved in a hot concentrated nitric - perchloric acid mixture and then analyzed for molybdenum by atomic absorption and for fluorine by specific ion meter. In addition, a portion of the -80 mesh fraction of 16 of the sediment samples and of the -40 mesh fraction of the remaining 2 sediment samples was fused with sodium carbonate and analyzed for tungsten by a colorimetric process. See Appendix 1 for listing of assays. The results are detailed on Maps 1 and 2.

RESULTS AND DISCUSSION

Molybdenum values for all soils and sediments are plotted on Map 1. Tungsten values for sediments are also plotted on Map 1. Fluorine values for all samples are plotted on Map 2.

Fig. 2 is a log probability plot of all soil molybdenum values. It demonstrates that we are dealing with a single log-normal population. Accordingly, any contouring is meaningless. The characteristics of this population indicate that it is probably derived from a glacial till. (John Barakso, personal communication).

Fig. 3 is a log probability plot of all soil fluorine values. Again we are dealing with a single log-normal population, and contouring is meaningless. Based on the inferred origin of the molybdenum values, we can assume that the fluorine population is probably also characteristic of glacial till in the area.

The number of sediment values obtained is too small for statistical analysis. However molybdenum data from 123 sediment samples taken within a three-mile radius of the Screeching Cat Claim have been supplied by A. Soregaroli of Western Mines. These data are presented as a log probability plot in Fig. 4. They indicate that there are two populations present in the area, and that 99% of the molybdenum

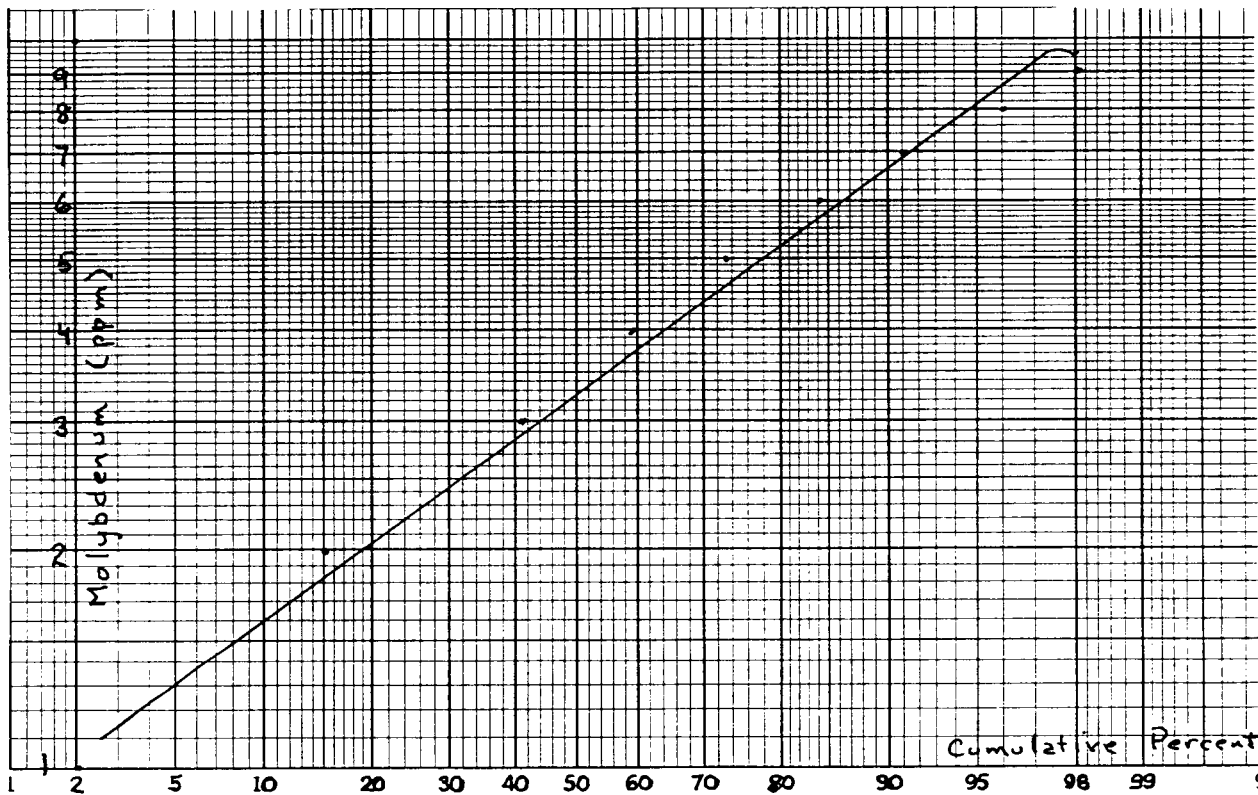


Fig. 2 Log probability plot of Molybdenum (ppm) in 152 soil samples from Screeching Cat Claim.

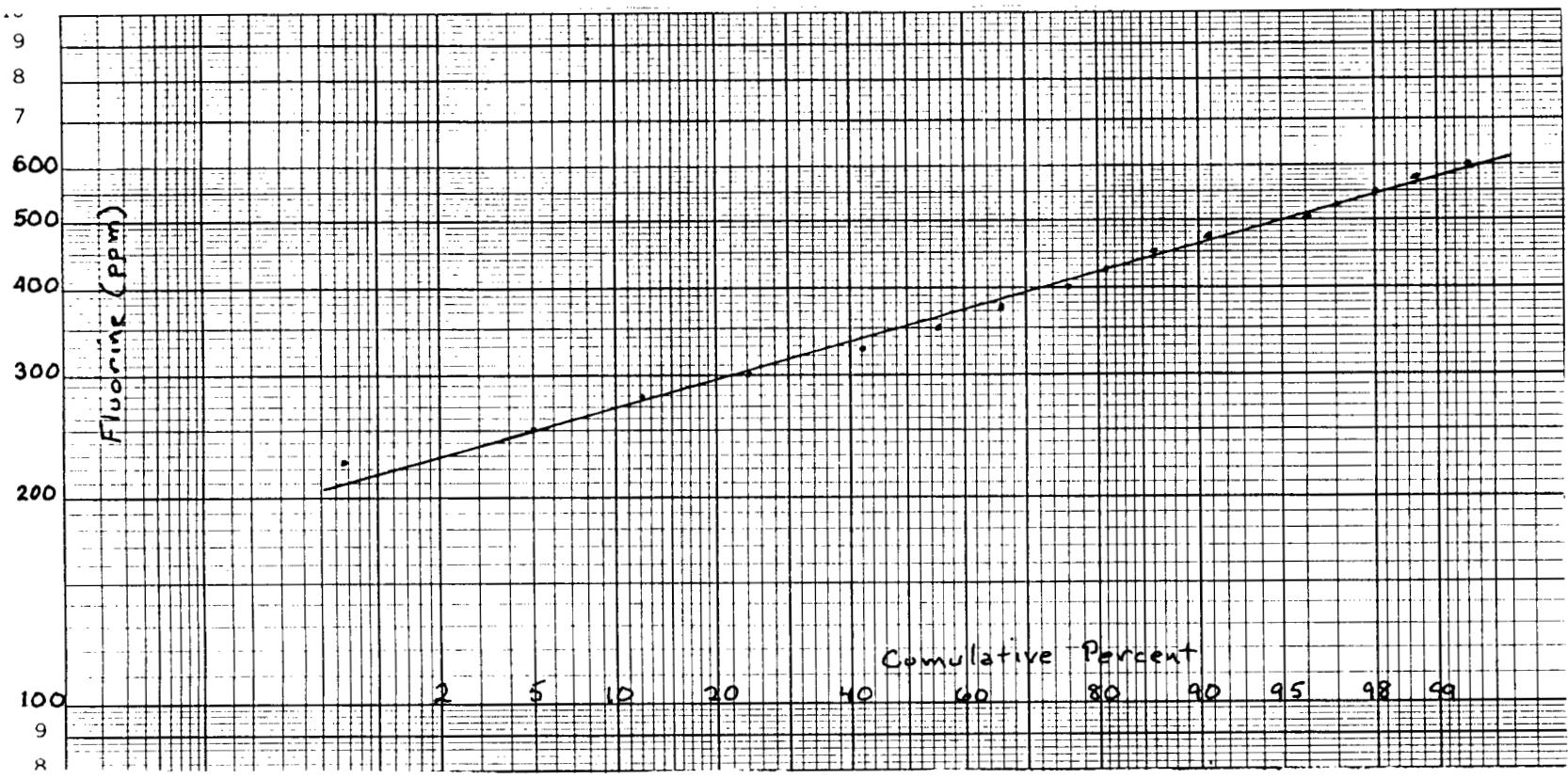


Fig. 3 Log probability plot of Fluorine (ppm) in 152 soil samples from Screeching Cat Claim.

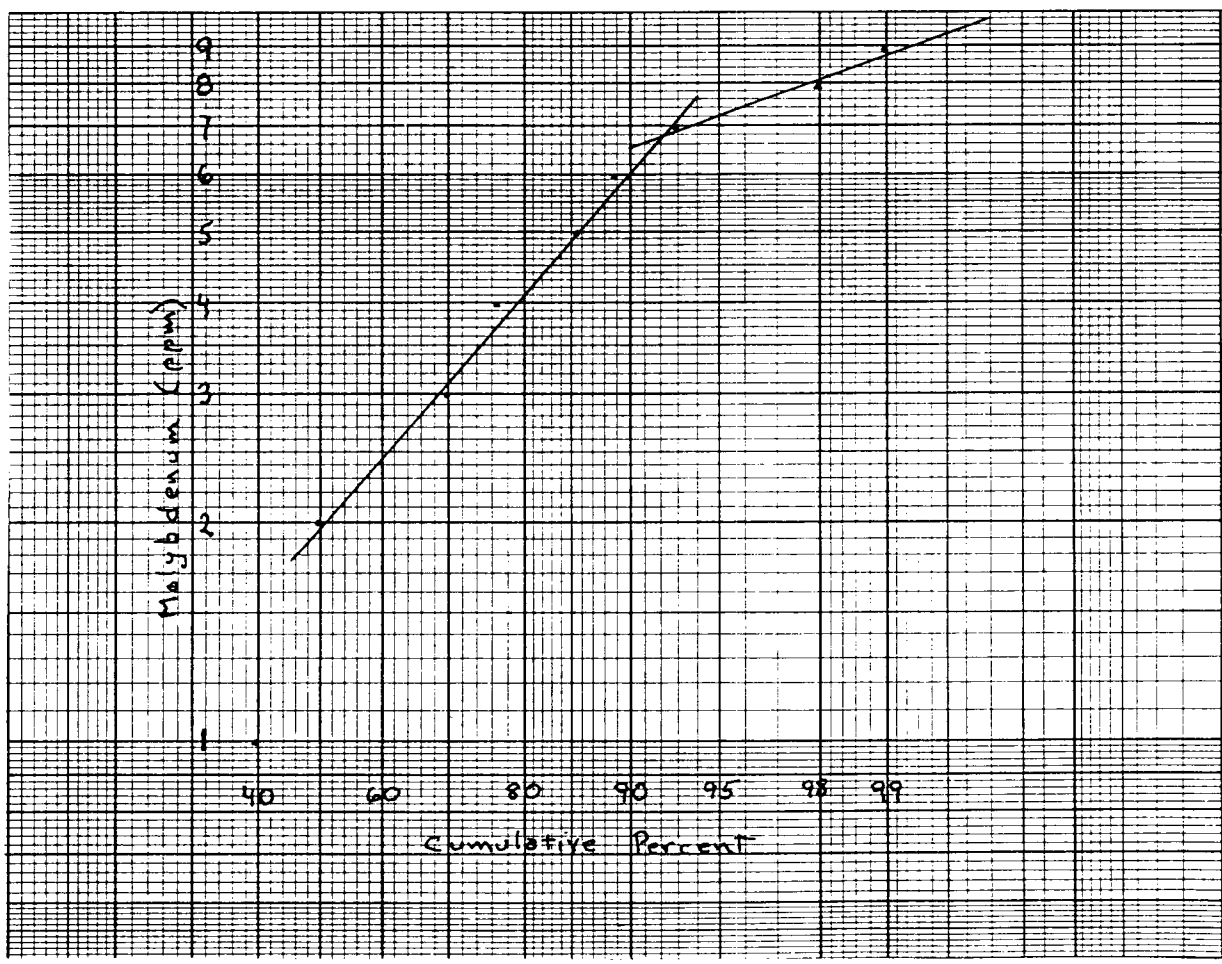


Fig. 4 Log probability plot of Molybdenum in 123 sediment samples taken within three-mile radius of Screeching Cat Claim. (Data courtesy of A. Soregaroli, Western Mines)

values are 9 ppm or less. Fourteen of the eighteen sediments taken in the present survey have values exceeding this figure, four of them fall below it. The four low values were taken from drainages other than the main channel of Big Sheep Creek. All fourteen samples taken from the main channel are anomalous, ranging from a low of 14 ppm to a high of 162 ppm. The average value of these 14 samples is 59 ppm.

Unfortunately there is no data available for background tungsten and fluorine sediment values. An inspection of the fluorine data suggests that the sediment values are roughly comparable with those found in the soils, and fall into a background population. The data on tungsten are indeterminate.

SUMMARY

A strong molybdenum anomaly has been confirmed in sediments taken from the main channel of Big Sheep Creek. Its source is still unknown.

ACKNOWLEDGEMENTS

Grateful acknowledgement is made to Chris Pearson for ably assisting in the field work, to John Barakso for his comments on possible interpretations of the data, and to Art Soregaroli for supplying data on stream sediment molybdenum values for drainages in the vicinity of the Screeching Cat Claim.

APPENDIX I
ANALYTICAL DATA

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project Date of report **Aug. 1/79.**
File No. **9-364** Date samples received **July 17/79.**
Samples submitted by: **Brad Pearson**
Company: **Brad Pearson**
Report on: **170 soils** Geochem samples

Assay samples

Copies sent to:

1. **Brad Pearson, Richmond, B.C.**
2.
3.

Samples: Sieved to mesh **-80** Ground to mesh

Prepared samples stored discarded

rejects stored discarded

Methods of analysis: **Mo-nitric, perchloric digestion. A.A. Analysis.**

F-Specific Ion Meter. W-Fusion-Colorimetric.

Remarks:

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke

705 WEST 15th STREET

NORTH VANCOUVER, B.C.

CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURES FOR Mo, Cu, Cd, Pb, Mn, Ni, Ag, Zn, As, F

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2 -Air flame combination but the Molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzeit method using $\text{Ag CS}_2\text{N} (\text{C}_2\text{H}_5)_2$ as a reagent. The detection limit obtained is 1.2 ppm.

Fluorine analysis is carried out on a 200 milligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soil samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is 10 ppm F.

MIN-EN Laboratories Ltd.

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Corner 15th Street and Bewicke
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NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ANALYTICAL PROCEDURE FOR ASSESSMENT WORK

PROCEDURE FOR: TUNGSTEN

0.5 gram of prepared samples are weighed into nickel crucibles and fluxed with 1:4 times with carbonate flux in a temperature controlled furnace.

Samples than are dissolved and suitable aliquots are taken for colorimetric procedures.

The interferring elements are reduced from the solutions by a 10% SnCl_2 solution before the test is carried out by the Zinc Dithol reagent.

The coloured complex is extracted with Kerosene oil to obtain pure and more easily discriminated blue color.

Samples are measured against a suitable suit of standards which are carried through the same manner as the samples.

COMPAN Brad Pearson

GEOCHEMICAL ANALYSIS DATA SHEET

FILE No. 9-364

PROJECT No.: _____

MIN - EN Laboratories Ltd.

DATE: Aug. 1,
1979.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

ATTENTION: Brad Pearson

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm		
6 81	10 86	15 90	20 95	25 100	30 105	35 110	40 115	45 120	50 125	55 130	60 135	65 140	70 145	75 150	80 155
L0-1W	8												52.5		
2W	6												36.0		
3W	7												36.0		
4W	9												34.5		
5W	7												23.5		
6W	11												21.0		
8W	5												32.0		
9W	8												23.0		
10W	7												39.0		
12W	6												25.0		
14W	4												27.0		
15W	4												26.5		
L0-16W	3												32.5		
L3-0W	7												34.0		
1W	2												30.0		
2W	3												30.0		
3W	3												43.5		
4W	4												38.0		
5W	5												37.0		
6W	6												28.5		
7W	5												37.0		
9W	3												27.5		
10W	2												30.0		
11W	4												36.5		
12W	4												31.5		
L3-16W	2												36.0		
L6-1E	3												31.0		
L6-0W	4												31.5		
1W	3												36.0		
L6-2W	6												46.5		

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705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1979.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm			
61	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L6-3W	6							•						4.35		
4W	2							•						3.35		
5W	4							•						2.35		
6W	6							•						3.30		
7W	6							•						4.45		
8W	4							•						2.80		
9W	5							•						3.55		
10W	3							•						3.25		
11+50W	7							•						3.20		
12+50W	4							•						4.60		
13+50W	5							•						4.60		
14+50W	5							•						3.25		
15+50W	4							•						3.40		
16+50W	4							•						3.00		
17+40W	5							•						4.95		
L9-1+25E	4							•						4.30		
2+25E	2							•						4.10		
3+25E	6							•						4.95		
4+25E	7							•						4.85		
5+25E	7							•						5.35		
6+25E	4							•						2.90		
L9-0W	5							•						3.45		
1W	3							•						3.70		
2W	6							•						3.15		
3W	4							•						4.40		
4W	5							•						3.15		
5W	3							•						3.80		
6W	5							•						2.75		
7W	3							•						2.60		
L9-8W	5							•						3.25		

Handwritten signature/initials

COMPAT Brad Pearson

GEOCHEMICAL ANALYSIS DATA SHEET

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DATE: Aug. 1

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
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ATTENTION: Brad Pearson

1979.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm			
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
b1	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L9-9W	5												4.55			
9+30W	8												4.05			
10W	5												4.30			
11W	3												3.15			
12W	3												2.95			
13W	2												3.30			
14W	3												3.85			
15W	3												4.60			
L9-16W	4												3.30			
L12-1E	3												3.35			
2E	3												3.05			
3E	3												4.05			
4E	4												3.90			
5E	4												2.80			
L12-6E	3												2.60			
L12-0W	4												3.40			
1W	4												3.20			
2W	3												2.80			
3W	2												3.45			
4W	8												4.20			
5W	1												3.00			
6W	6												3.50			
7W	6												2.85			
L12-8W	5												2.80			
L15-1E	7												4.30			
2E	6												3.50			
3E	3												2.70			
4E	3												2.70			
5E	4												2.85			
L15-6E	2												2.75			

Handwritten initials

COMPASS **Brad Pearson**

GEOCHEMICAL ANALYSIS DATA SHEET

F
No. **9-364**

PROJECT No.: _____

MIN - EN Laboratories Ltd.

DATE: **Aug. 1,**

ATTENTION: **Brad Pearson**

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
PHONE (604) 980-5814

1979.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm			
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L15-0W	7												4.00			
1W	4												2.95			
2W	5												3.60			
3W	8												3.35			
4W	10												4.20			
5W	9												3.05			
6W	3												4.00			
7W	6												3.25			
L15-8W	3												2.90			
L18-1E	6												2.55			
2E	8												3.25			
3E	2												2.75			
4E	5												4.05			
L18-5E	5												3.10			
L18-0W	4												3.85			
1W	5												4.60			
2W	4												3.55			
3W	2												3.10			
4W	3												2.30			
5W	3												3.60			
L18-6W	7												2.90			
L21-1E	3												3.20			
2E	3												2.90			
3E	2												3.00			
4E	2												3.35			
L21-5E	8												3.70			
L21-0W	3												3.25			
1W	1												3.20			
2W	3												3.35			
L21-3W	4												4.00			

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COMPAT

Brad Pearson

GEOCHEMICAL ANALYSIS DATA SHEET

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MIN - EN Laboratories Ltd.

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Brad Pearson

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

1979.

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm			
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L21-4W	1												3.15			
5W	2												3.75			
6W	3												3.40			
6+2.5W	5												3.90			
L24-2E	2												4.90			
3E	3												3.55			
4E	4												5.55			
5E	3												3.20			
6E	2												3.20			
L24-7E	2												5.85			
L24-0W	3												4.35			
1W	2												6.60			
2W	3												4.00			
3+7.5W	2												3.80			
5W	2												3.65			
L24-6W	4												3.25			
L27-1E	5												5.00			
2E	4												2.35			
3E	5												3.45			
4E	6												3.90			
5E	6												5.45			
6E	7												5.00			
L27-7E	1.2												4.60			
L27-0W	4												4.55			
1W	5												3.40			
2W	3												3.65			
2+3W	9												4.90			
3W	3												2.80			
4W	3												4.20			
L27-5W	3												3.85			

COMPASS

Brad Pearson

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705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
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1979.

ATTENTION: Brad Pearson

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	F ppm			
	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
81-	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
<u>L27-6W</u>		<u>3</u>						<u>•</u>						<u>360</u>		
<u>#10</u>		<u>3</u>						<u>•</u>						<u>320</u>		
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Brad

APPENDIX II

Statement of Qualifications

Bradford D. Pearson

S.B. (Biology) 1950 Massachusetts Institute of Technology

M.A. (Geology) 1961 Boston University

Mining Geologist 1962 - 1967 with Placer Development and
Cominco, Ltd.

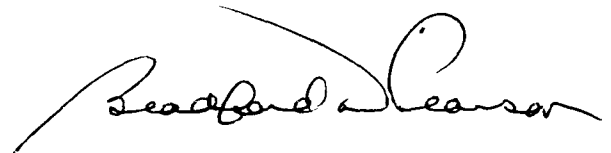
Exploration Geologist 1967 - 1971 with Utah Mines, Ltd.

Consulting Exploration Geologist 1972 to present date.

Member Association of Professional Engineers of B.C.

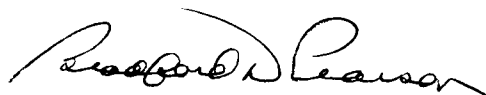
Fellow Geological Association of Canada

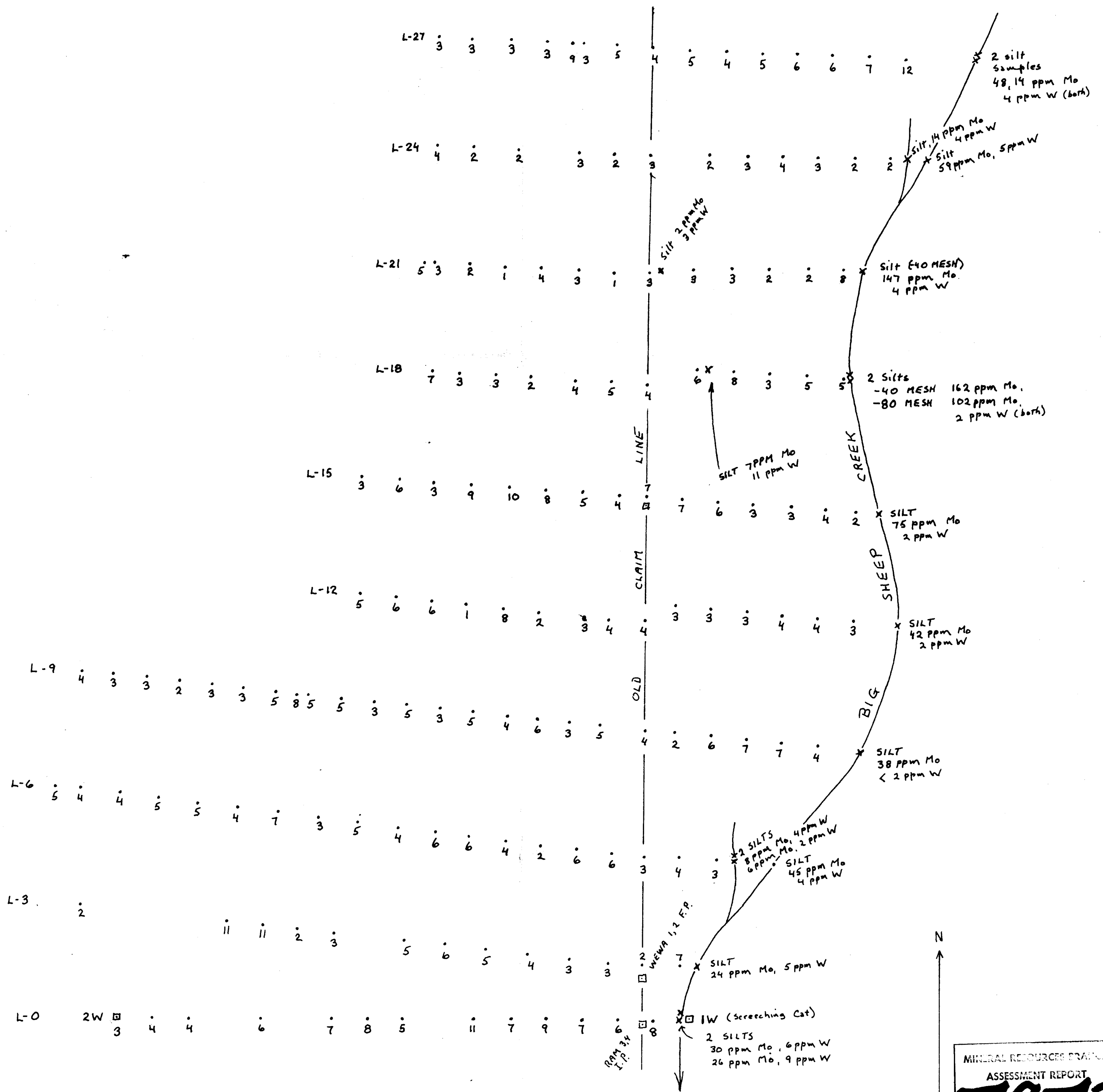
Experience encompasses geological, geophysical and geochemical approaches to the search for and evaluation of base and precious metals and uranium in a variety of settings including massive sulfides, limestone replacement, porphyry and vein-type deposits.



APPENDIX III
STATEMENT OF COSTS

Truck rental, July 6 - July 10		
5 days @ \$25.00	\$125.00	
732 miles @ 15¢	<u>109.80</u>	
	234.80	
Sales tax (4%)	<u>9.39</u>	
		<u>\$244.10</u>
Gasoline		52.00
Motels July 6	24.15	
July 9	<u>25.20</u>	
		49.35
Food : 5 days @ 9.75		48.75
Wages		
Bradford D. Pearson: 5 days @ \$75		375.00
Chris Pearson: 5 days @ \$35		175.00
Report preparation: 1 day @ \$75		75.00
Assays: 170 samples		
Preparation @ 50¢	\$85.00	
170 for Mo, F @ \$5.50	935.00	
18 for W @ 3.75	<u>67.50</u>	
		<u>1087.50</u>
Total cost of survey		<u>\$2106.79</u>


Bradford D. Pearson, P. Eng.



0 60 120 180 240
SCALE IN METERS

Map 1

Molybdenum (ppm) in Soils and Sediments
Tungsten (ppm) in Sediments
(-80 Mesh fraction except where noted)
Screeching Cat Claim, Trail Creek M.D.

• soil x sediment

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

7873

Barford Pearson
March 7, 1980
B.D.P.

