

3471

GEOCHEMICAL REPORT

PJ CLAIM GROUP

*94K/3W*

106 MILES S.W. OF FORT NELSON, B.C.

LATITUDE  $58^{\circ}08'$  NORTH LONGITUDE  $125^{\circ}15'$  WEST

---

AUTHOR: P.J. WEISHAAPT - PROJECT MANAGER

P.ENG. - J.S. THOMSON

DATE OF WORK: JULY 6th - JULY 10th, 1971

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
No. *3471* ..... MAP .....

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CERTIFICATE J.S. THOMSON, P. ENG.	

FIGURES:

- # 1 Location Map
- 2 *claims Map*
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Sample Results

## INTRODUCTION

This report is prepared for submission as assessment work of a geochemical survey on the PJ mineral claims under the writer's direction from July 6th - July 10th, 1971. The survey was undertaken to confirm possible areas of mineralization as outlined by a geophysical program consisting of V.L.F. Electromagnetometer and Induced Polarization Survey.

## LOCATION, ACCESS AND TOPOGRAPHY

The southeast corner of the claim group is intersected by approximately  $58^{\circ}8'$  latitude and  $125^{\circ}15'$  W longitude.

Most of the claim group is located on a south-facing slope on the north side of the Gataga River and access is therefore no major problem. The property is reached by helicopter from the town of Fort Nelson, B.C., a distance of 106 air miles. The Churchill Copper road is 17 air miles to the northwest from which the Alaska Highway is reached.

The area as a whole is rugged and varies in elevation from 3,500 feet to 8,000 feet. The Gataga River flows through a broad valley which runs from east to west across the southern portion of the claims. The timber line on the claim group is at 4,700 feet and good timber is available on the flanks of the Gataga River Valley. Glaciers extend down to an elevation of 6,200 feet and water is abundant on the property.

## PROPERTY

The PJ property consists of 86 PJ, 4 Andrew, and 6 Sybil Mineral Claims as shown on claim map 94K3W(M) and are contiguous. The geochemical survey was conducted completely or partially on mineral claims PJ 45, 47 which are illustrated in respect to the complete claim group in Figure 1.

### WORK PROGRAM

The geochemical survey was conducted on a previously established survey grid consisting of 3000 feet of baseline directed in a north 20° west direction and 32,200 feet of well cut and flagged survey lines turned off at right angles from the baseline at 200 foot intervals. Soil sampling along this grid was done at 50 foot stations. This work, together with cutting on access trail will be recorded under physical work done. All the samples taken were shipped to the Lab of Nadina Explorations Limited in Houston, B.C. and were analyzed by Atomic Absorption for copper only. The result of this soil survey is plotted on the accompanying map at 1" = 200'.

### PROPERTY GEOLOGY

The contact between the Proterozoic clastics, slates and argillites with younger sandstones and limestones trends slightly north of west through the southern portion of the PJ claims. It is unconformable in nature. Nine claims are underlain by the younger beds, and no dykes or veins were noted in the area.

The remainder of the claims are underlain by the Proterozoic, numerous dykes and mineralized quartz-carbonate veins. Slaty cleavage within the Proterozoic maintains a remarkably constant attitude (N. 40° to 55° W. with dips constantly between 45° and 70° to the S.W.). Even the most well bedded clastics show similarly trending, but more indistinct, cleavage or tight jointing.

Bedding within the Proterozoic varies considerably in attitude and indicates broad folding. The dips of the bedding are always at a shallower angle than are those of the cleavage. Only adjacent to veins and some dykes is there minor tight folding.

Most of the dykes trend between N. 0°W. and about N. 20° W.; all dips are steep and towards the west. A few trend N. 25° to 35° E. These may aid in projecting long trends associated with copper mineralization. Some bulging in the dykes may adversely affect the continuation of mineralization, and the intersection of dykes may control the deposition of high grade pods of quartz and chalcopyrite.

#### GEOCHEMICAL SURVEY

The results obtained from this survey indicate possible sulphide mineralization over E.M. conductor zones.

The soil sample survey gave the following results:

<u>Background %</u>	<u>Threshold %</u>	<u>Anomalous %</u>
20-60 ppm cu	61-120 ppm cu	121+ppm cu
75.95	12.02	12.02

The lowest ppm result is 12 ppm in copper and the highest result is 2,000+ ppm in copper. All sample data is attached to this report.

#### ECONOMIC GEOLOGY

The claims were staked following discoveries of high grade copper mineralization in the general area.

Quartz, carbonate and copper mineralization may occur as fissure veins, vein and veinlet swarms, quartz stockworks or as lenses confined to dykes. Chalcopyrite is the principal copper mineral. Bornite, pyrite and chalcocite are less common. Specular hematite, and occasionally galena, may be associated with the veins.

ASSESSMENT WORK

The geochemical soil sampling was carried out by Mr. W. Strutt and Mr. W. Wiseman. The samples were dried and sifted at the camp and shipped by air to Houston, B. C. Maps have been prepared by Mr. P.J. Weishaupt. Persons employed on the field work were:

W. Strutt            Institute of Technology, B.C.  
W. Wiseman         Senior Technician  
P.J. Weishaupt     Project Manager.

COST OF WORK

<u>Personnel</u>	<u>Period</u>	<u>Man Days</u>	<u>Wages/Day</u>	
W. Strutt	July 6 - July 10	5	\$60.00	\$300.00
W. Wiseman	July 6 - July 10	5	\$60.00	300.00
P.J. Weishaupt	July 6 - July 8	3	\$60.00	180.00
Camp Cost - 13 man days @ \$10				130.00
Helicopter Bell 204 @ \$250 per hr. - one hour flying required				250.00
Assays A/A 183 samples @ \$1.10				210.00
Supervision and report P.J. Weishaupt				100.00
Plotting and Drafting				240.00
<u>TOTAL</u>				<u>\$1,710.00</u>

APPLICATION

Work is to be applied to the PJ 2 Group.

CERTIFICATE

I, JAMES SCHOLES THOMSON, of Delta, British Columbia,  
DO HEREBY CERTIFY:

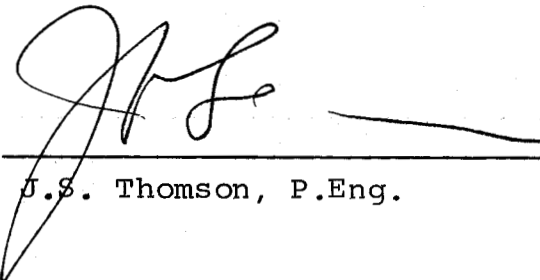
That I am a registered Professional Engineer in the  
Province of British Columbia.

That I hold the degree of B.A.Sc. in Mining Engineering  
(University of British Columbia 1950) and that I have been  
employed in this field since graduation.

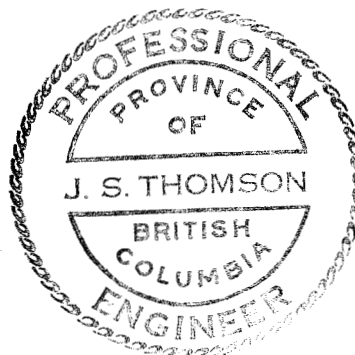
That I am Vice President of Bralorne Can-Fer Resources  
Limited, in charge of mining operations.

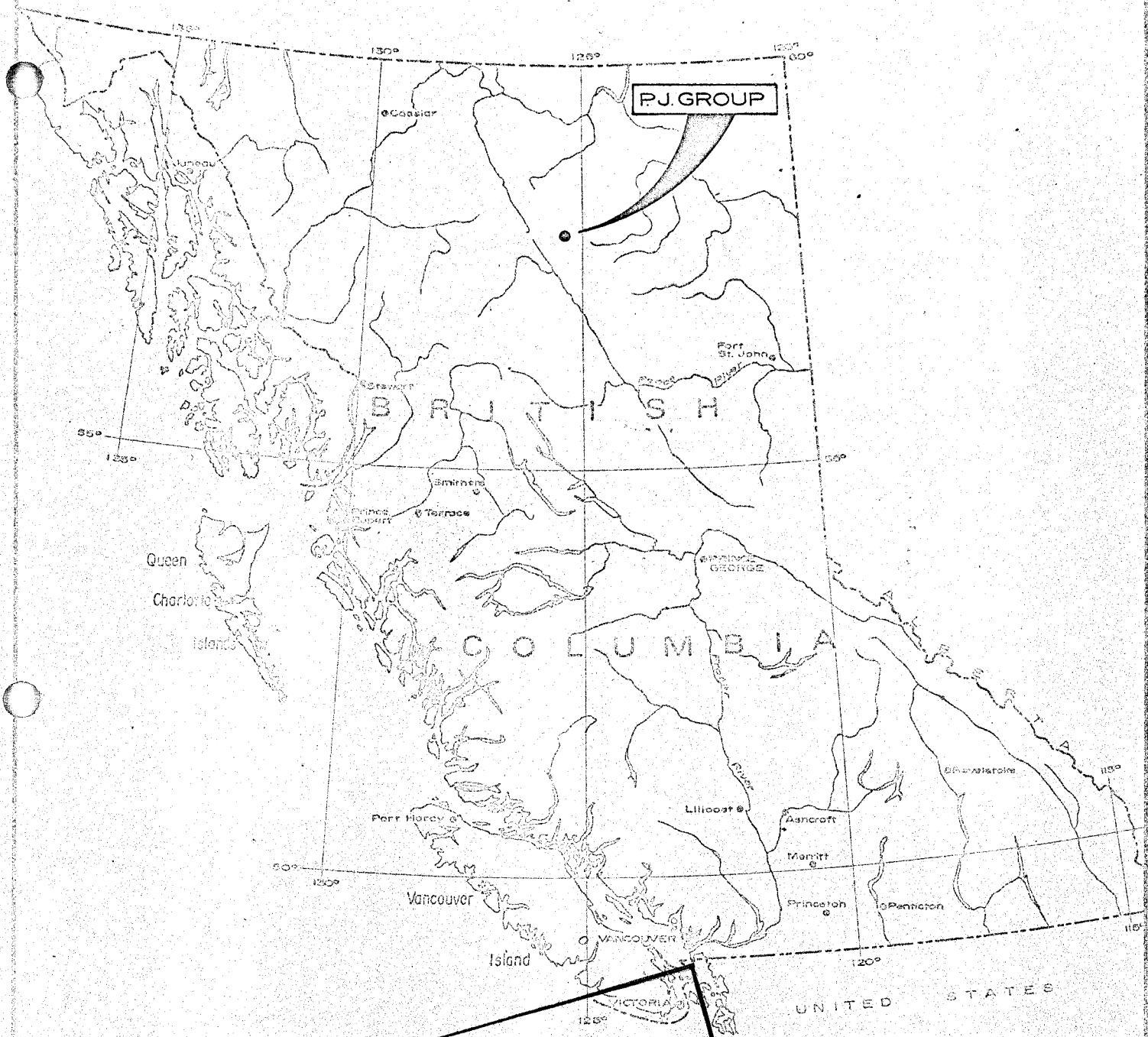
That I am familiar with the work done on this project  
by Mr. P.J. Weishaupt and supervised the progress thereof.

That Mr. Weishaupt has been employed in exploration in  
British Columbia from 1959 to the present time and that I  
consider him fully competent to do the work.

  
\_\_\_\_\_  
J.S. Thomson, P.Eng.

December 21, 1971





Department of  
 Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
 NO. **3471** MAP **#1**

BRALORNE CAN-FER RESOURCES LTD.  
**LOCATION MAP**  
 P. J. GROUP OF MINERAL CLAIMS

SCALE: 1" = 136 Miles



R.J. WEISHAUP

SEPTEMBER, 1971

*P.J. Weishaupt*



WINDERMERE

BOOK CLAIMS  
(WINDERMERE)

42068 25 42067	26			109 42151	110 42152	5	6
42066 23 42065	24			107 42149	108 42150	3	4
42064 21 42063	22			105 42147	106 42148	1	2
19 42061	20			42102 103 42145	104 42146	19	20
17 42059	18 42050	49 42091	50 42092	42100 101 42143	102 42144	17	18
15 42057	16 42058	47 42089	48 42090	56 42098	99 42141	100 42142	
13 42055	14 42056	45 42087	48 42088	54 42096	97 42139	98 42140	
11 42053	12 42054	43 42085	44 42086	52 42094	95 42137	96 42138	
9 42051	10 42052	41 42083	42 42084	51 42093			
7 42049	8 42050	39 42081	40 42082				
5 42047	6 42048	37 42079	38 42080				
3 42045	4 42046	35 42077	36 42078				
1 42043	2 42044	33 42075	34 42076				
				119 42161	120 42162		

S  
Y  
B  
I  
L

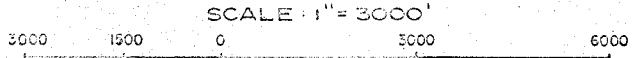
A  
N  
D  
R  
E  
W

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 3471 MAP # 2



BRALORNE CAN-FER RESOURCES LTD.  
CLAIM MAP  
P.J. GROUP OF MINERAL CLAIMS  
LIARD M.D., B.C.  
Map 94K-F-W

P.J. Weishaup



## BRALORNE CAN-FER RESOURCES LTD.

PROPERTY:

PJ Mineral Claims

DATE: November 1971

LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	BR = BROWN COLOUR BL = BLACK	REMARKS
Line 10 S					
5+00E	55	B1	6	Rd BR	Some rock, root
4+50E	2000	A	7	BL	Root, rock, organics, beside creek
4+00E	410	A	8	BL	Root, organics
3+50E	50	B	8	BR	Rock, root, some organics
3+00E	110	B	7	BR	Rock, root, some organics
2+50E	50	B2	10	Lgt. BR	Rock, some roots
2+00E	80	B1	9	Rd BR	Rock, roots
1+50E	1120	B	7	BR	Rock, roots, organics
1+00E	800	A	8	BL	Rock, roots, organics, beside dry creek
0+50E	190		5		Rock, roots, steep bank to creek
Profile					
BL	70	A	2	BR	Rock, roots, organics
	70	B1	5	Rd BR	Rock, some root, bedrock below
Line 12 S					
4+00E	960	A	6	BL	Organics, creek, wet
3+50E	100	B1	6	Lgt. Rd BR	Rock
3+00E	70	B1	5	Rd BR	Rock, some root
2+50E	70	A	6	BL	Rock, organics
2+00E	250	A	5	BL	S. Rock, organics
1+50E	1717	A	6	BL	Rock, organics
1+00E	210	B1	8	Lgt. BR	S. Rock, root
0+50E	40	B	6	Gr BR	S. Rock, roots, organics
Profile					
BL 12 S	120	A	4	BL	Some rock, root, organics
	130	B2	8	Yellow Gray	Rock, some rust

PROPERTY:

PJ Mineral Claims

DATE: November 1971

LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	BR = BROWN COLOUR BL = BLACK	REMARKS
Line 14 S					
3+00E	55	A	9	BL	Rock, organics
2+50E	45	B1	8	Lgt. BR.	S. rock
2+00E	100	C	8	Gray	Rock & some roots
1+50E	75	C	6	Gray	Creek gravel
1+00E	85	A	8	BL	Rock organics
0+50E	290	B	8	BR	Rock, roots, some organics
BL 14 S	130	A	10	BL	Organics, root
Line 16 S					
12+00E	460	A	8	BL	Organics
11+50E	20	B1	7	Rd. BR	Root, rock
11+00E	90	B1	7	Lgt. Rd. BR	Root (organics)
10+50E	60	A	9	BL	Organics
10+00E	20	A	8	BL	Organics
9+50E	60	A	12	BL	Organics
9+00E	270	A	10	BL	Organics
8+50E	70	C	8	Gray	Moist, clay (organics)
8+00E	350	C	7	Gray	Moist, clay (organics)
7+50E	75	A	8	BL	Organics
7+00E	40	B1	4	Lgt. Rd. BR	Root, some rock
6+50E	60	B1	4	Lgt. Rd. BR	Root
6+00E	40	B1	4	Rd. BR	Rock, root
5+50E	40	B1	5	Lgt. Rd. BR	Rock, root, some organics
5+00E	55	A	7	BL	Organics
4+50E	45	B2	5	Yellow BR	Rock, root
4+00E	60	A	6	BL	Organics
3+50E	30	B2	8	Gray BR	
3+00E	170	B2	7	Gray BR	Rock, some roots, organics, by creek
2+50E	60	B2	7	Gray BR	Some roots, rock
2+00E	75	B	3	BR	Some organics

PROPERTY:

PJ Mineral Claims

DATE: November 1971

LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	COLOUR BR = BROWN BL = BLACK	REMARKS
Line 16 S (cont'd)					
1+50E	160	B1	7	Lgt. Rd. BR	Some rock
1+00E	110	B	6	BR	Some organics, root
0+50E	200	B	5	BR	Some root
BL 16 S	75	B2	5	Gray BR	Clay
Line 18 S					
10+00E	20	B2	9	Rd. BR	Some rock, root
9+50E	30	B2	11	Yellow BR	Clay, some rock
9+00E	20	B2	10	Gray BR	Some rocks
8+50E	40	A	9	BL	Organics
8+00E	20	B2	9	Yellow BR	Some rock, root
7+50E	45	B2	10	Yellow BR	Some rock, root
7+00E	40	B2	10	Gray BR	Rock beside creek
6+50E	230	C	10	Gray	Sandy, beside creek, gravel, organics
6+00E	70	C	8	Gray	Sandy, beside creek, gravel
5+50E	40	C	6	Gray	Sandy, beside creek, gravel, roots
5+00E	60	C	8	Gray	Sandy, beside creek, gravel, roots
4+50E	150	C	10	Gray	Sandy, beside creek
4+00E	30	C	8	Gray	Gravel, possible creek
3+50E	80	B2	8	Gray BR	Sandy
3+00E	20	B2	9	Gray BR	Rock
2+50E	30	B2	9	Lgt. Rd. BR	Some rock & root
2+00E	20	B2	7	Rd. BR	Some root
1+50E	30	B1	7	Rd. BR	Some rock, root
1+00E	20	C	5	Gray	Rock
0+50E	20	B2	5	Lgt. BR	Rock, some root
BL 13 S	85	A	10	BL	Organic wet swamp
Line 20 S					
8+00E	15	B1	8	Rd. BR	Some roots, rock
7+50E	15	B1	9	Rd. BR	Some root
7+00E	15	B1	7	Rd. BR	Some rock, root

PROPERTY:

PJ Mineral Claims

DATE: November 1971

LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	COLOUR BR = BROWN BL = BLACK	REMARKS
Line 20 S (Contd)					
6+50E	15	B2	6	Rd.BR	Rock
6+00E	15	B1	8	Rd.BR	
5+50E	15	B1	9	Rd.BR	Some rock
5+00E	15	B1	8	Rd.BR	Some rock
4+50E	15	B1	9	Rd.BR	Some rock, root
4+00E	15	C	7	Gray	Rock
3+50E	30	B2	7	Gray BR	Some rock, root
3+00E	20	C	5	Gray	Rock B.B.
2+50E	20	B1	10	Lgt.Rd.BR	Some root
2+00E	20	B2	10	Lgt.Rd.BR	Some rock, root
1+50E	20	C	8	Gray	Clay
1+00E	30	A	11	BL	Organics wet swamp
0 +50E	70	A	12	BL	Organics wet swamp
BL 20 S	30	A	12	BL	Organics wet swamp
0 +50W	20	B1	7	Rd. BR	Rock, some root
1+00W	20	B2	9	Rd.BR	Some rock, root
LINE 22 S					
8+00E	20	B1	9	Rd.BR	Some rock, root
7+50E	30	B1	8	Rd.BR	Some rock, root
7+00E	30	B1	10	Rd.BR	Some rock
6+50E	40	B1	8	Rd.BR	Rock
6+00E	30	B1	9	Rd.BR	Some rock
5+50E	30	B1	7	Rd.BR	Some rock, roots
5+00E	20	B2	10	Lgt.BR	Some rock
4+50E	20	B1	7	Rd.BR	Some root, rock
4+00E	15	C	10	Gray	Rock O.C.
3+50E	40	B1	7	Rd.BR	Some root, rock
3+00E	15	C	4	Gray	Rock, B.B.
2+50E	30	B2	5	Gray BR	Rock
2+00E	40	B1	4	Rd.BR	Rock, B.B.
1+50E	20	B1	5	Lgt.Rd.BR	Rock & Bed Rock below

PROPERTY:

PJ Mineral Claims

DATE: November 1971

LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	BR = BROWN COLOUR BL = BLACK	REMARKS
LINE 22 S (Contd)					
1+00E	15	C	10	Gray	West, rock, root
0+50E	45	A	11	BL	Organics, Swamp
BL 22 S	15	C	11	Gray	Rock, swamp
0.+50W	20	B2	8	Rd.BR	Some roots
1+00W	30	B1	9	Rd.BR	Some roots, rock
1+50W	15	B1	6	Rd.BR	Some roots, rock
2+00W	15	B1	6	Rd.BR	Rock, some roots
LINE 24 S					
2+00W	15	B1	4	Rd.BR	S. rock, roots
1+50W	15	B2	8	Lgt.yellow BR	S. rock
1+00W	20	B1	6	Lgt.Rd.BR	S.roots, organics
0.+50W	20	B1	5	Lgt.Rd.BR	S.rock, roots
PROFILE					
24 S	15	AO	½	Ash gray	organics
	30	B1	4	Lgt.Rd.BR	Some roots
	40	B2	12	Lgt.BR(gr)	Rock
0.+50E	20	B1	4	Rd.BR	S.Rock, roots
1+00E	30	B1	8	Rd.BR	S.organics
1+50E	20	B1	8	Rd.BR	S.Roots, rock
2+00E	20	B1	5	Rd.BR	S.Rock O.C.
2+50E	20	B2	3	Lgt.Gr.BR	Rock, roots O.C.
3+00E	30	B1	5	Lgt.Rd.BR	Rock, root O.C.
3+50E	20	C	4	Gray	Rock O.C.
4+00E	15	C	3	Gray	Clay
4+50E	30	B2	6	Yellow BR	Rock O.C.
5+00E	30	B1	5	Rd.BR	Rock, roots
5+50E	30	B1	4	Rd.BR	Rock, S.roots
6+00E	40	B1	5	Lgt.Rd.BR	S.roots
6+50E	30	B1	5	Lgt.Rd.BR	S.roots, rock
7+00E	20	B3	5	Lgt.Yellow BR	Clay, rock
7+50E	20	B3	6	Lgt.Yellow BR	Clay, rock

PROPERTY:

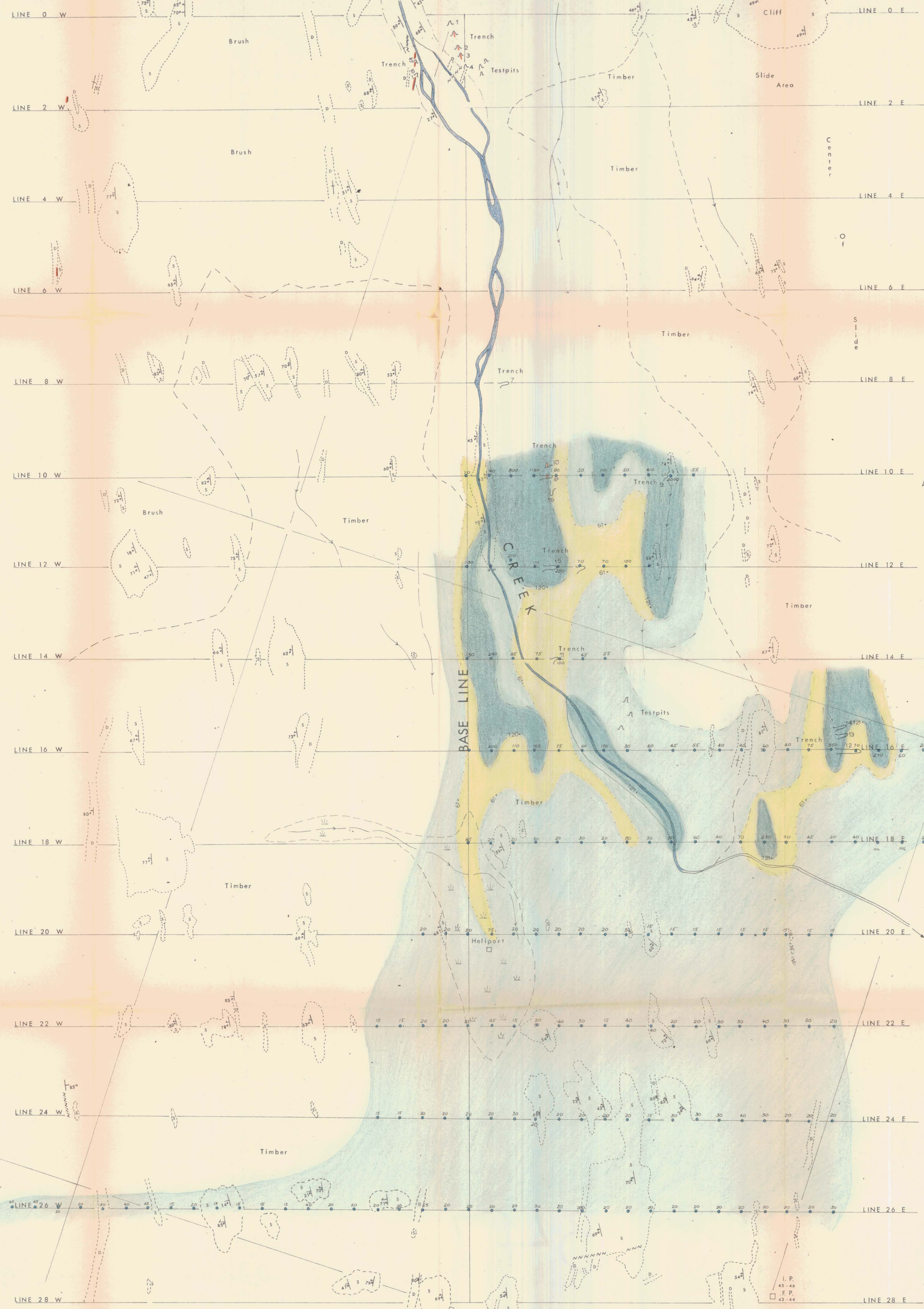
PJ Mineral Claims

DATE: November 1971

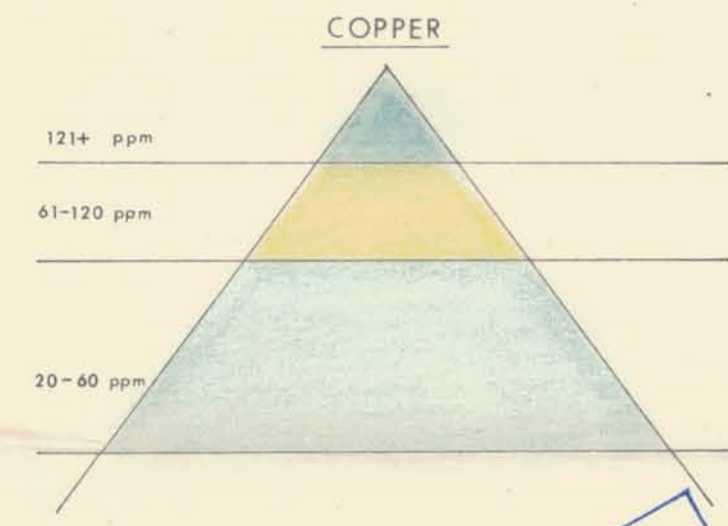
LOCATION	COPPER ppm	HORIZON	DEPTH IN INCHES	COLOUR BR = BROWN BL = BLACK	REMARKS
PROFILE (Contd)					
8+00E	20	B1	5	BR	Roots O.C.
LINE 26 S					
8+00E	30	B1	6	Rd.BR	Rock
7+50E	20	B1	6	Rd.BR	Rock
7+00E	20	B1	6	Rd.BR	Rock roots
6+50E	20	B2	6	Lgt.BR	S.Rock, roots
6+00E	20	B2	3	Lgt.BR	S.rock, very dry
5+50E	20	B2	6	Lgt.BR	S.rock
5+00E	20	B2	4	Lgt.BR	S.roots rock
4+50E	20	B1	4	Rd.BR	S.rock
4+00E	20	B1	3	Rd.BR	S.rock roots D.C.
3+50E	20	B1	3	Rd.BR	Rock outcrop
3+00E	20	B1	2	Rd.BR	Rock on outcrop
2+50E	20	B1	4	Rd.BR	Rock beside outcrop
2+00E	20	B2	4	Lgt.BR	S.Rock
1+50E	30	B2	6	Gray BR	S.organics, roots, clay
1+00E	20	B1	6	Lgt.BR	S.roots, rock
0+00E	20	B1	6	Rd.BR	S.roots
PROFILE					
BL 26 S	20	A	Sur- face	BL	Moss roots
	20	B1		Red BR	Some roots, rock
	30	B2		Lgt.BR	Some rock
0+50W	20	B1	8	Rd.BR	Rock roots
1+00W	55	B1	6	Rd.BR	Rock
1+50W	20	B1	6	Rd.BR	Rock S.roots
2+00W	20	B1	6	Rd.BR	Rock, little soil
2+50W	20	B1	6	Rd.BR	Rock, little soil
3+00W	20	B1	5	Rd.BR	S.rock O.C.
3+50W	40	B1	6	BR	Rock, organics O.C.







- LEGEND**
- Claim Boundary
  - Claim Post
  - ▲ Altitude (cleavage, bedding)
  - Copper Mineralization
  - ▨ Gabbroic Dykes
  - ▤ Proterozoic Clastics
  - Soil Sample Location



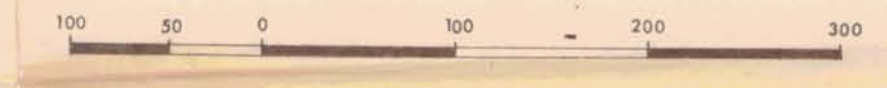
Department of  
Mines and Petroleum Resources  
**ASSESSMENT REPORT**  
No. 3471 - Map M-3

**BRALORNE CAN-FER RESOURCES LTD.**  
**GEOCHEMICAL SURVEY**  
of the

PJ GROUP OF MINERAL CLAIMS  
LIARD MINING DIVISION

MAP SHEET 94 K3-W  
58°00' N. LATITUDE 115°15' LONGITUDE (15E)

SCALE: 1" = 100'



F.J. WEISHAUFF DECEMBER, 1971

*F.J. Weishauff*



3471 M-3