

83-#918 - 11831

GEOCHEMICAL REPORT ON THE
BON 1 to 4 MINERAL CLAIMS

Cariboo Mining Division

NTS 93A/14

Latitude: 52° 57' North

Longitude: 121° 22' West

Claim Owner: George Haywood-Farmer Administrator of
the Estate of Wilfred E. Thompson, Deceased.

Claim Record Numbers: 47807, 47808, 47809 and 47810

Report by: R. M. Durfeld B.Sc.

DURFELD GEOLOGICAL MANAGEMENT LTD.
2029 South Lakeside Drive
Williams Lake, B.C.
V2G 2R1

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

December 1983

11,831

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1.) INTRODUCTION

This report compiles the results of rock chip sampling and geological mapping that was conducted on the BON mineral claims on August 1, 1983. This sampling program was proposed in the 1982 report to evaluate the precious metal potential of the vein mineralization recognized on the BON mineral claims.

The BON #1 to #4 mineral claims are located 22 kilometers south-southeast of the historic community of Barkerville. (Figure 1)

Access to the property is by all-weather gravel road from Barkerville via Antler Creek to Cunningham Pass and hence up Cunningham Creek to the property. Access on the property is best achieved by a cat trail that originates at the Cunningham Creek all-weather road and bisects the property.

The physiography of the BON #1 to #4 mineral claims is characterized by a northeast facing slope that overlooks and becomes steeper toward Cunningham Creek.

The vegetation is predominantly a mixed stand of fir and spruce forest with extensive undergrowth of alder, huckleberry, blueberry bushes and moss.

2.) HISTORY

The section of Cunningham Creek below the BON mineral claims has been the scene of gold mining from placer operations since 1885. Gold mining from quartz veins began in 1922 at the head of Peter's Gulch (later the Cariboo Hudson Mine) just south of the BON mineral claims. Minor quantities of scheelite have also been produced from this area.

1:50,000

Barkerville 13 km.

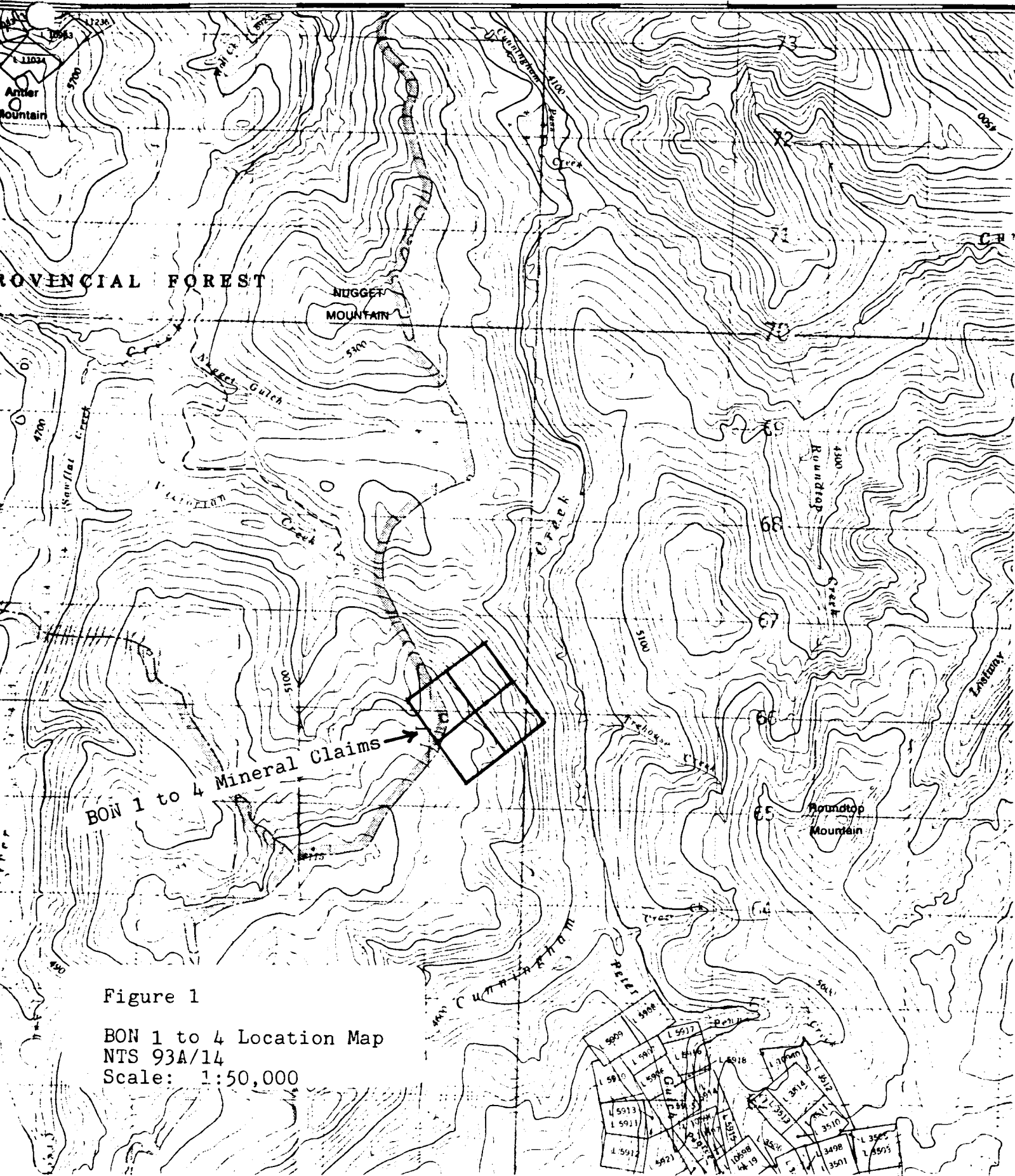


Figure 1

BON 1 to 4 Location Map
NTS 93A/14
Scale: 1:50,000

Extensive base metal exploration has been conducted in the area predominantly by way of soil sampling, trenching and minor diamond drilling. These surveys were conducted in the area of the BON mineral claims between 1971 to 1977 by Coast Interior Ventures and Rio Tinto Canadian Exploration Limited.

3.) PROPERTY

CLAIM NAME	RECORD NUMBER	RECORD DATE
BON #1	47807	September 30
BON #2	47808	September 30
BON #3	47809	September 30
BON #4	47810	September 30

CLAIM OWNER - George Haywood-Farmer Administrator for the Estate of Wilfred E. Thompson, Deceased.

4.) GEOCHEMICAL SURVEY

Rock chip samples were collected from quartz and/or sulphide veins while prospecting in the area of the BON #1 to #4 mineral claims. Relative vein thicknesses were difficult to determine due to the rubbly nature of the rock trenches. Samples were located by chain and compass survey relative to the 1982 soil grid and are plotted on Figures 2 and 3. The sample description and geochemical analyses are documented as Appendix 1 of this report.

5.) GEOLOGY

The area of the BON mineral claims is largely underlain by thin overburden that generally masks the outcrop. Road cuts and minor trenching assisted in mapping.

The BON mineral claims are underlain by north-northwest trending phyllitic rocks that were regionally mapped by R. B. Campbell in 1959 and 1960 as corresponding to the Lower Cambrian Snowshoe Formation.

The phyllitic rocks of the Snowshoe Formation on the BON mineral claims are largely chloritic and sericitic phyllites with siliceous and calcareous sections. On the western end of line 0+00 north a grey to white crystalline limestone outcrops.

Locally, within the phyllitic sections quartz-carbonate veins are developed sub-parallel to the foliation.

Visible sulphide mineralization is developed as galena, sphalerite and pyrite occurring with the quartz-carbonate veins. Pyrite is also developed generally parallel to the foliation within the phyllites.

It was the quartz-carbonate-sulphide veins that were the focus of the 1983 program. Several of these vein structures were sampled and their distribution is documented on Figure 2.

6.) RESULTS

This sampling has documented a wide range of lead, zinc, silver and gold values in quartz-sulphide veins.

No direct relationship of the sulphide and precious metal content is recognized.

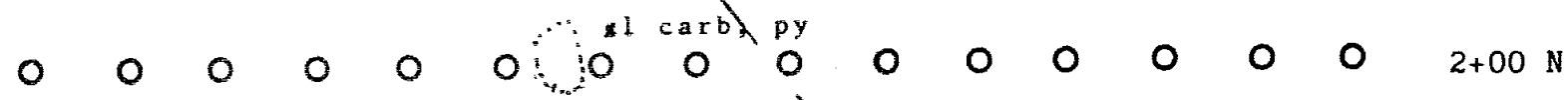
The silver values of 654 and 451 ppm. at sample sites B5 and B6 are significant and warrant further delineation. The higher gold values of 1040 and 550 ppb. are also strongly anomalous at these sites.

7.) CONCLUSIONS

The prospecting and rock sampling of vein material on the BON mineral claims has outlined quartz-sulphide veins with very high silver and gold values.

These highly anomalous values warrant a further detailed sampling and trenching program to further delineate their extent.

+50 W 0+00 W 2+00 N



A

BON 2



BON 1

**GEOLOGICAL BRANCH
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LEGEND

- Claim post
- Claim outline
- Soil sample site
- A** Largely chlorite and sericite phyllites with silicious and calcareous sections.
- B** Foliated grey to white micritic and crystalline limestone.
- Contact definite, implied
- Vein
- Outcrop
- Foliation inclined, vertical
- xl Crystalline
- carb Carbonate
- gn Galena
- py Pyrite
- qtz Quartz
- sph Sphalerite
- bar Barite
- 1983 Rock Chip Sample Site



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Scale: 1:2000
Date: Dec. 1983

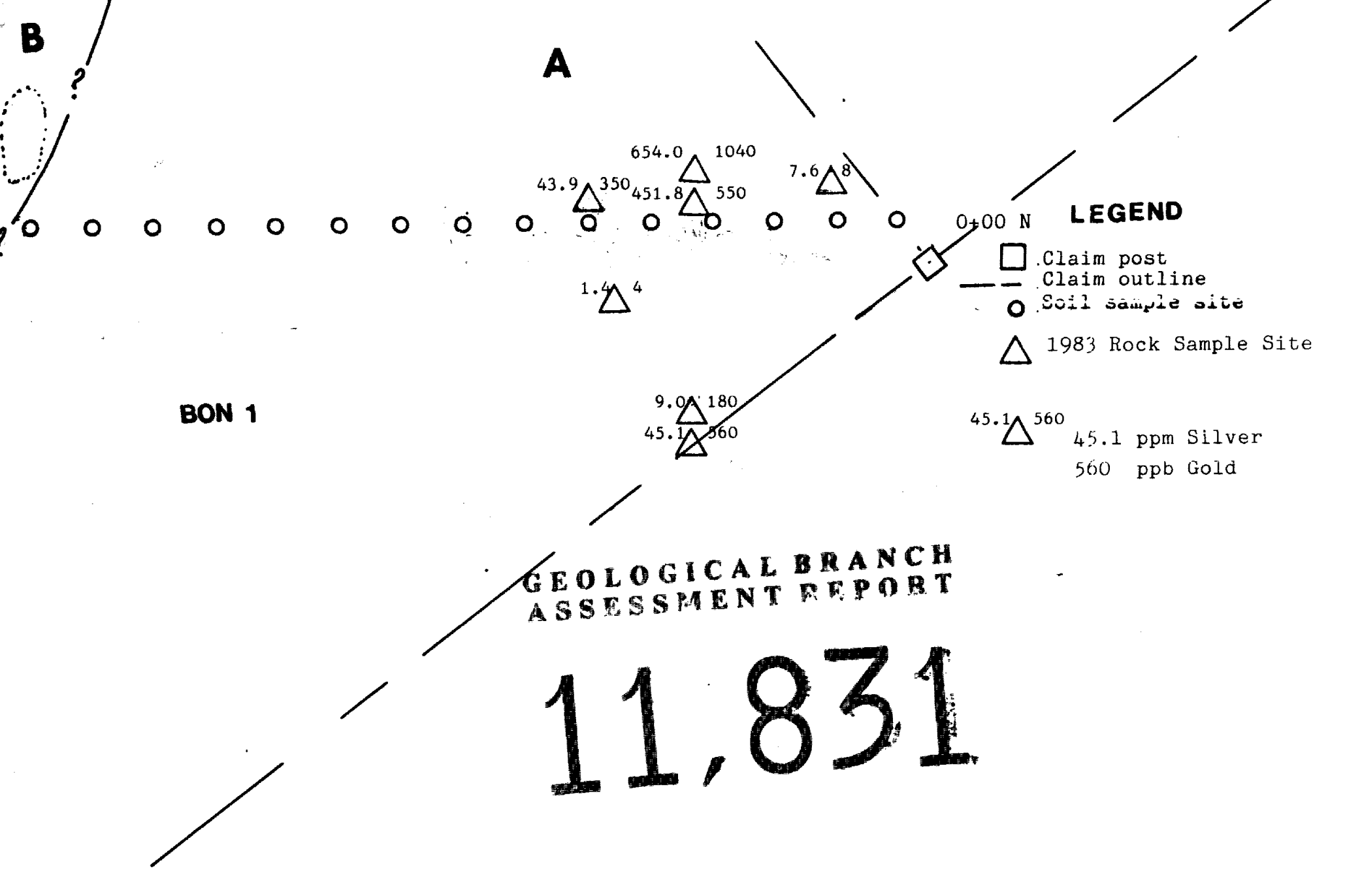
BON CLAIMS

Drawn By: rmd

SAMPLE LOCATION AND GEOLOGICAL PLAN

Drawing Number
Figure 2

3+50 W 0+00 W 2+00 N



BON 2

A

BON 1

LEGEND

- Claim post
- - - Claim outline
- Soil sample site
- △ 1983 Rock Sample Site
- 45.1 △ 560 45.1 ppm Silver
560 ppb Gold

**GEOLOGICAL BRANCH
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DURFELD GEOLOGICAL MANAGEMENT LTD		
Scale: 1:2000	BON CLAIMS	Drawn By: rmd
Date: Dec. 1983		
GEOCHEMICAL PLAN (GOLD, SILVER)		
		Drawing Number Figure 3

APPENDIX I

GEOCHEMICAL ANALYSES AND SAMPLE DESCRIPTIONS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH: 253-3158 TELEX: 04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.
 AU++ ANALYSIS FROM 10 GRAM FA+AA. SAMPLE TYPE - ROCK CHIPS

SX - alg digestion

DATE RECEIVED OCT 19 1983 DATE REPORTS MAILED Oct 25/83 ASSAYER Al Jones DEAN TOYE, CERTIFIED B.C. ASSAYER

DURFELD GEOLOGICAL FILE # 83-2523

PAGE # 1

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au#
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
B-1	2	132	2984	11316	9.0	17	10	3310	7.53	83	2	ND	4	60	122	12	6	13	10.85	.05	2	4	.48	22	.01	2	.21	.01	.04	2	180
B-2	3	49	43263	4478	45.1	9	3	562	2.95	2	3	ND	105	49	153	1036	523	5	.15	.01	2	9	.02	6	.01	4	.06	.01	.02	2	560
B-3	1	1	315	98	1.4	5	3	718	2.13	8	2	ND	2	62	1	2	2	3	5.70	.02	2	7	.84	7	.01	2	.06	.01	.01	2	4
B-4	2	28	17414	333	43.9	21	18	249	2.83	177	2	ND	39	9	4	21	43	5	.32	.02	2	10	.03	7	.01	4	.14	.04	.01	2	350
B-5	3	91	52018	2468	654.0	4	1	107	1.58	2	2	ND	126	19	68	502	284	2	.07	.01	2	14	.01	4	.01	3	.03	.01	.01	2	1040
B-6	5	146	41319	20702	451.8	12	3	19	1.88	2	3	ND	102	9	469	2014	632	2	.01	.01	2	1	.01	3	.01	5	.03	.01	.01	2	350
B-6 SX	1	26	45047	4219	376.0	2	1	21	.38	2	4	ND	112	2	84	346	115	2	.01	.01	2	1	.01	2	.01	2	.04	.01	.02	2	-
B-7	1	136	2645	149	7.6	13	29	1419	6.95	28	2	ND	5	175	3	11	2	46	9.89	.12	4	5	.94	64	.01	2	1.44	.05	.07	2	8

Sample Descriptions

Sample Number	Northing	Easting	Description
B - 1	0+80S	0+90W	gossanous quartz-carbonate vein with minor galena
B - 2	0+90S	0+90W	quartz and massive galena vein material
B - 3	0+30S	1+20W	milky quartz vein - no sulphides
B - 4	0+00S	1+25W	milky beige quartz vein
B - 5	0+00S	0+85W	milky quartz and galena vein
B - 6	0+00S	0+85W	milky quartz and massive galena vein
B - 7	0+15N	0+25W	gossanous banded schist

APPENDIX II

COST STATEMENT

Durfeld Geological Management Ltd.

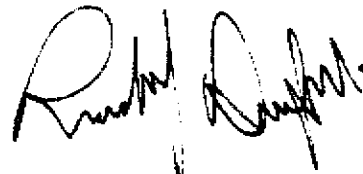
APPENDIX II

2029 SOUTH LAKESIDE DRIVE
WILLIAMS LAKE, B.C. V2G 2R1

Telephone (604) 392-4691

BON #1 to #4 MINERAL CLAIM COST STATEMENT:

R. Durfeld - geologist - 1 day @ \$200.00/day	\$ 200.00
Truck Rental and Fuel - 1 day @ \$75.00/day	75.00
Room and Board - 1 day @ \$50.00/day	50.00
Geochemical Analyses	93.00
Report Preparation and Drafting	250.00
TOTAL	<u>\$ 668.00</u>



R. M. Durfeld B.Sc.
Geologist

APPENDIX III

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Rudolf M. Durfeld of 2029 South Lakeside Drive,
Williams Lake, British Columbia, hereby certify that;

- 1) I am a graduate of the University of British Columbia,
Bachelor of Science (Geology Major) in 1972 and have
practiced my profession as geologist since that time.
- 2) I am a Fellow of the Geological Association of Canada.
- 3) I am the author of this report which is based on work
conducted on August 1, 1983.



R. M. Durfeld B.Sc.
Geologist