GEOCHEMICAL REPORT ON THE

BON MINERAL CLAIM GROUP

Cariboo Mining Division

NTS 93A/14

Latitude: 52° 57'north Longitude: 121° 22' west

Claim Owners: - George Haywood-Farmer Administrator of the Estate of Wilfred E. Thompson Deceased. - Rudolf M. Durfeld

Clai	, M	x	Record	Number	
BON	1		47807	2 post claim	
BON	2		47808.	ra · Ja	
BON	3		47809	52 55	
BON	4		47810	9.6 · · · · · · · · · · · · · · · · · · ·	
BON	6	(12 units)	8155	modified grid claim	

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

DURFELD GEOLOGICAL MANAGEMENT LTD. 180 Yorston Street Williams Lake, B.C. V2G 3Z1 FILMED

DECEMBER 1987

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	i) Geochemical Sample Collection and Analysis ii) Geochemical Results	2 2
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ILLUSTRATIONS

Figure	1	BON MINERAL	CLAIM	1S Location Map	
Figure	2	GEOCHEMICAL	PLAN	(silver, gold)	Attached
Figure	з	43	41	(copper, lead, zinc)	**
Figure	4	31	38	(manganese, arsenic,	
				tungsten)	**

APPENDICES

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A. INTRODUCTION

i)Location and Access

The BON 1 to 4 and 5 mineral claims are located 22 kilometers southeast of the historic community of Barkerville on map sheet NTS 93 A/14. (Figure 1)

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

The physiography of the BON 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, huckelberry, blueberry bushes and moss.

ii) Property Definition

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

Extensive base metal exploration was conducted in the area between 1971 and 1977, predominantly by way of soil sampling, trenching and minor diamond drilling.

On September 19, 1968 the BON 1 to 4 mineral claims were located by Wilfred E. Thompson to cover a quartz-carbonate-galena vein with silver values. On March 23, 1984 the author located the BON 5 mineral claim to cover the continuation of this vein trend to the north. On November 28th, 1986 the author relocated the BON 5 mineral claim as the BON 6 mineral claim by way of an abandonment and restake.

The status of these mineral claims is summarized as follows:

CLAIM NAME		NAME	RECORD NUMBER	RECORD DATE	
BON	1	(2-post)	47807	September 3	30
BON	2	(2-post)	47808	September	30
BON	З	(2-post)	47809	September	30
BON	4	(2-post)	47810	September	30
BON	6	(12 units)	8155	December	1

Claim Owners- George Haywood-Farmer Administrator for the Estate of Wilfred E. Thompson, Deaceased.

⁻ Rudolf M. Durfeld

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The recent programs on the BON claims have concentrated on defining the economic potential of the recognized vein structures that to date have yielded values of up to 32.0 ounces per ton silver and .20 ounces per ton gold. A recent VLF-electromagnetic survey that is documented in a previous report helped to define structure in the vein area. The detail geochemical soil sampling that is documented in this report was designed to define the extent of this mineralized vein structure in the area of the BON mineral claim group.

iii) <u>Summary of Work</u>

A compilation of the 1985 and 1986 soil sampling on the BON property recognized several coincident silver-gold and pathfinder geochemical anomalies. The general trend of these anomalies was north to northwest and a logical extension of the work was line 33+90 north. On September 27th and 28th, 1987, R. Durfeld the author of this report conducted a field examination and collected several large soil samples that were later panned and evaluated. On October 14th, on the basis of this evaluation the grid was extended to the north and forty-one soil samples were collected at 10 metre intervals on line 33+90 N from 0+00E to 4+00E.

B. GEOCHEMICAL SURVEYS

i) Geochemical Sample Collection and Analysis

Grid line 33+90 north was established using compass and hip chain. Stations were labelled at 10 metre intervals with flagging and tyvex tags.

Soil samples were dug with a grubhoe. All samples were found to be of a residual nature with a high percentage of angular rock fragments. A rusty B-horizon soil was generally developed between 3 and 6 inches from surface. At all sample sites it was therefore possible to collect good B-horizon soils that were placed in Kraft sample bags and shipped to Acme Analytical Laboratories of Vancouver for analysis.

Acme Analytical Laboratories analyzed all samples by 30 element ICP (Inductively Coupled Plasma) and gold by FA+AA (Fire Assay and Atomic Absorption).

ii) Geochemical Results

The results of these analyses are documented on figures 2 to 4 for silver, gold, copper, lead, zinc, manganese, arsenic and tungsten and for all analyzed elements as appendix I. The statistically derived anomalous and strongly anomalous values derived in the 1985 report were incorporated to better define the anomalous areas. These values are listed below and have also been highlighted on figures 2 to 4.1

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ELEMENT	ANOMAI	.໐ຑຘ	STRONGLY	ANOMALOUS
Gold	15	ppb	20	ppb
Silver	1.0	ppm	1.6	ppm
Lead	180	ppm	250	ppm
Copper	60	ppm	80	ppm
Zinc	150	ppm	185	ррм
Arsenic	30	ppm	50	ppm
Tungsten	5	ppm	7	ppm
Manganese	1000	ppm	1400	ppm

From the distribution of the anomalous gold and silver values on figure 2 it is evident that the north-northwest trending anomalies that were outlined by previous surveys continue to the north.

Large soil samples were collected at stations 33+90N 2+30E and 33+40N 2+60E, were panned down and yielded angular phyllitic rock fragments and crystals of sphalerite and galena. This suggests that the soil anomalies that are developed at these sites represent residual mineralization.

C. CONCLUSIONS

Soil sampling to date on the BON property develops distinct silvergold and pathfinder anomalies.

The anomaly at 31+90N 0+90E to 1+10E corresponds to quartz-sulphide mineralization that in previous rock chip sampling developed silver values to 32 oz/ton and gold values to 0.20 oz/ton.

The angular nature of fragments in the soils and the concentration of sphalerite and galena in pan concentrated soils suggests a local shallow source. Initial further testing by way of backhoe trenching is recommended on all anomalies.

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APPENDIX I

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GEOCHEMICAL ANALYSES

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ACME ANALY CAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUY B.C. V6A 1R6 PHONE (604) 253-3158 FAX (604) 253-1

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .SOO GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR M5 BA TI B W AND LINITED FOR NA K AND AL. AU DETECTION LINIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AUTA ANALYSIS BY FA+AA FROM 10 GM SAMPLE.

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DURFELD GEOLOGICAL FILE # 87-5088

SAMPLE	MO	CU	PB	ZN	AS	NE	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	٧	CA	Р	LA	CR	M5	BA	TI	В	AL	NA	K	¥	AU##
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APPENDIX II

ITEMIZED COST STATEMENT

Personnel

Geologist - R.M. Durfeld - 2 days @ \$300/day \$600.00 Assistant - C. Durfeld and R. Dubois - 2 days @ \$150/day 300.00

Transportation

Truck	rental	- 3 days @	\$50/day		150.00
Truck	fuel -	at cost			150.00

Board

- 4 man days @ \$30/day

Geochemical Analyses

Report Preparation

350.00

120.00

522.40

Total

\$ 2,192.40

R.M. Durfeld /B.Sc.

Geologist

APPENDIX III

STATEMENT OF QUALIFICATIONS

I Rudolf M. Durfeld, do hereby certify :

- That I am a geologist with offices at 180 Yorston Street, Williams Lake, B.C.
- 2.) That I am a graduate of the University of British Columbia, B.Sc. Geology 1972, and have practiced my profession with various mining and/or exploration companies and as an independent geological consultant since graduation.
- 3.) That I am a Fellow of the Geological Association of Canda (Member No: F3025), and a member of the British Columbia and Yukon Chamber of Mines and the Canadian Institute of Mining and Metallurgy.
- 4.) That this report is based on site evaluation and soil sampling that was conducted on the BON mineral claim group during the period September 27th to October 15, 1987.

R.M. Burfeld, B.Sc. Geologist

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