

GEOCHEMICAL REPORT ON THE
BON GROUP OF MINERAL CLAIMS

Cariboo Mining Division

NTS 93A/14

Latitude: 52 degrees 57 minutes north

Longitude: 121 degrees 22 minutes north

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

<u>Claim</u>	<u>Record Number</u>	
BON 1	47807	2 post claim
BON 2	47808	" " "
BON 3	47809	" " "
BON 4	47810	" " "
BON 5 (20 units)	5954	modified grid claim

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

DURFELD GEOLOGICAL MANAGEMENT LTD.

180 Yorston Street

Williams Lake, **GEOLOGICAL BRANCH**
V2G 3Z1 **ASSESSMENT REPORT**

MARCH 1985

13,550

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A. INTRODUCTION

i) Location and Access

The BON 1 to 4 mineral claims are located 22 kilometres south-east of the historic community of Barkerville on map sheet NTS 93 A/14. (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.

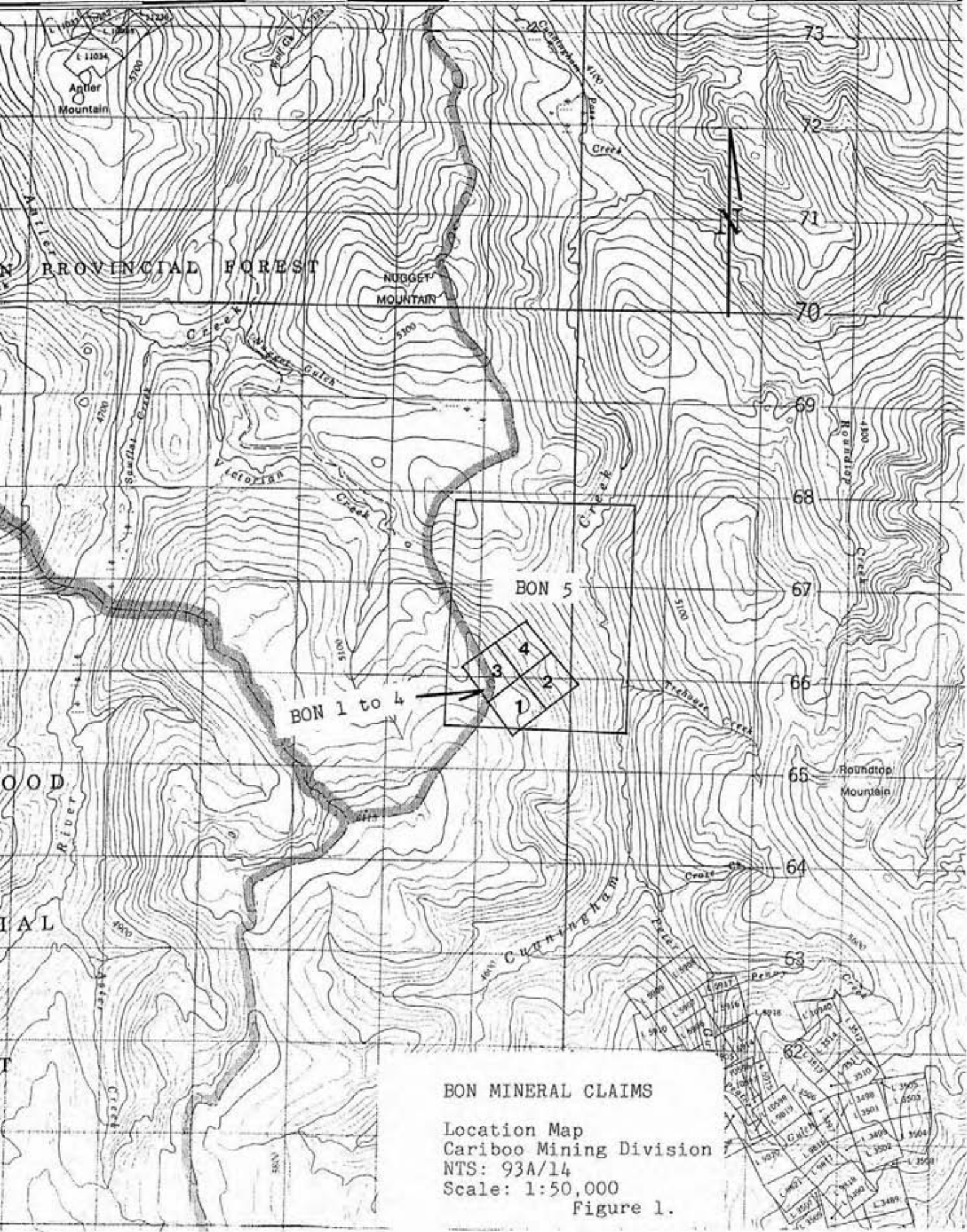
The physiography of the BON claims is characterized by a northeast facing slope that overlooks and becomes steeper toward Cunningham Creek.

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

ii) Property Definition

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.

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



BON MINERAL CLAIMS
 Location Map
 Cariboo Mining Division
 NTS: 93A/14
 Scale: 1:50,000
 Figure 1.

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 this vein trend to the north.

The status of these mineral claims is summarized as follows:

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>RECORD DATE</u>
BON 1	47807	September 30
BON 2	47808	September 30
BON 3	47809	September 30
BON 4	47810	September 30
BON 5 (20 units)	5954	March 23

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

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 21.0 ounces per ton silver and .03 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 and rock sampling that is documented in this report was designed to define the response of geochemical soil samples collected in the area of vein structures.

iii) Summary of Work

September 25 to 27 were spent prospecting and sampling on the BON property. It was decided to run a detail geochemical soil line perpendicular to the vein structures. Line 31+90 north of the geophysical grid was best suited for this study and 33 soil samples were collected at 10 metre intervals. In conjunction with this soil sampling 10 rock samples were collected from the sheared vein structure that is developed in the area of 0+80 to 1+00 east.

B. RESULTS

i) Soil Sampling

The silver, gold, copper, lead, zinc, manganese, arsenic and tungsten values are plotted on figures 2 to 4. To better define the anomalous values the data was statistically analyzed. High values were arbitrarily cut and the means and standard deviations calculated. The anomalous values are defined as the mean plus one standard deviation and the strongly anomalous values as the mean plus two standard deviations. These values are summarized below and have also been highlighted on figures 2 to 4.

ELEMENT	CUT TO	MEAN	STANDARD DEVIATION	ANOMALOUS	STRONGLY ANOMALOUS
silver	1.00 ppm	.36 ppm	.28 ppm	.70 ppm	1.0 ppm
gold	15 ppb	6.5 ppb	5.4 ppb	11 ppb	16 ppb
copper	70 ppm	42.8 ppm	18.9 ppm	62 ppm	81 ppm
lead	200 ppm	107.1 ppm	69.3 ppm	177 ppm	247 ppm
zinc	150 ppm	106 ppm	33.8 ppm	139 ppm	172 ppm
manganese	1200 ppm	919 ppm	283.5 ppm	1180 ppm	1460 ppm
arsenic	50 ppm	19.7 ppm	15.5 ppm	35 ppm	50 ppm
tungsten	10 ppm	3.3 ppm	2.4 ppm	5 ppm	7 ppm

From the distribution of the anomalous silver and gold values on figure 2 it is readily evident that 3 distinct coincident silver-gold anomalies are developed. These anomalies also have distinct coincident pathfinder anomalies that are summarized as follows:

31+90N 0+40W to 0+20W

Silver-gold soil anomaly with coincident anomalous lead, zinc and manganese values.

31+90N 0+90E to 1+10E

Silver-gold soil anomaly with coincident anomalous lead, zinc, manganese and arsenic values.

31+90N 2+50E to 2+80E

Silver-gold anomaly with coincident copper, lead, zinc, manganese, arsenic and tungsten values.

ii) Rock Chip Sampling

The anomaly at 0+90E to 1+10E corresponds to recent trenching that crosscuts a sheared quartz, galena, sphalerite and sericite vein structure. Limited rock chip sampling in this area is documented on figures 5 to 7 of this report.

Limited geological mapping in this area is documented on figure 5. This mapping has recognized the main lithology as strongly folded and sheared sericite schist of the Mississippian Age Downey Creek succession that regionally develops a strong northwest trend. Locally crosscutting this regional trend is a northeast trending shear structure. The sulphide vein structures are elongated parallel to these northeast trending shear structures. The regional trend of these veins however, generally parallels the northwest trend.

Although there is insufficient data for statistical analysis it is evident that the highest silver and gold values are coincident with the highest lead and zinc values that are developed on the vein structures.

This limited rock chip sampling has developed silver values to 32 oz/ton and gold values to 6200 ppb that suggest economic potential for a high-grade silver gold deposit. The true thickness of these structures here is not known due to the extensive northeast trending shearing.

C. CONCLUSIONS

- 1) The 31+90N line of soil samples collected at 10 metre intervals developed three distinct silver-gold and pathfinder anomalies at 0+40W to 0+20W, 0+90E to 1+10E and 2+50E to 2+80E.
- 2) The anomaly at 31+90N 0+90E to 1+10E corresponds to quartz-sulphide mineralization that develops silver values to 32 oz/ton and gold values to 6200 ppb (.20 oz/ton gold).
- 3) This suggests that the anomalies at 31+90N 0+40W to 0+20W and 31+90N 2+50E to 2+80E represent covered vein mineralization.
- 4) Additional soil samples at 10 metre intervals on lines perpendicular to the vein structures would assist in outlining buried vein structures.

APPENDIX I

GEOCHEMICAL ANALYSES AND ASSAYS

DURFELD GEOLOGICAL FILE # 84-3070A

PAGE 3

SAMPLER	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Act	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	
RX-6161D	9	62	23380 ^x	17309	251.2	4	1	155	.75	15	5	ND	2	10	305	1174	186	2	.06	.01	2	1	.01	2	.01	2	.01	.01	.01	.01	2	490
RX-6162D	12	107	23605 ^x	28997	260.0	4	1	112	.99	141	5	ND	2	5	412	1100	184	2	.01	.01	2	1	.01	2	.01	3	.01	.01	.01	.01	2	540
RX-6163D	1	68	25463 ^x	269	289.8	5	1	532	1.33	23	5	ND	2	21	44	355	850	2	.02	.01	2	1	.01	5	.01	4	.02	.01	.02	2	630	
RX-6164D	2	16	605	520	2.1	8	4	1670	3.33	51	20	ND	2	54	7	2	2	3	6.87	.04	4	1	.51	11	.01	3	.05	.01	.02	2	670	
RX-6165D	4	123	32881 ^x	8050	47.3	20	13	866	5.20	210	5	ND	4	12	61	48	13	3	.08	.04	10	3	.22	31	.01	4	.18	.01	.11	2	110	
RX-6166D	19	442	2515 ^x	68280	390.4	12	4	473	2.18	279	5	ND	2	43	857	581	179	2	.19	.03	2	3	.07	14	.01	2	.09	.01	.06	2	520	
RX-6167D	2	46	180	4415	.5	23	14	828	3.79	59	5	ND	5	5	32	2	2	2	.06	.03	14	1	.03	20	.01	3	.11	.01	.07	2	13	
RX-6168D	26	281	21621	125384	258.6	10	3	46	3.61	2831	5	7	2	36	1224	683	225	2	.02	.01	2	2	.01	2	.01	2	.02	.01	.01	2	6200	
RX-6169D	1	20	2554	1450	5.4	19	8	682	4.10	326	5	ND	6	7	9	3	7	2	.01	.03	12	2	.02	28	.01	3	.13	.01	.09	2	47	
RX-6170D	1	4	94	44	.3	2	1	293	.60	4	5	ND	2	453	1	2	2	2	11.41	.01	3	2	.14	7	.01	2	.03	.01	.01	2	2	
RX-6161D 5x	2	14	28342	3944	223.2	1	1	35	.17	2	5	ND	2	2	69	240	45	2	.02	.01	2	1	.01	2	.01	2	.01	.01	.01	2	-	
RX-6162D 5x	3	20	25108	6076	185.7	1	1	25	.22	27	5	ND	2	1	88	202	41	2	.01	.01	2	1	.01	2	.01	4	.01	.01	.01	2	-	
RX-6163D 5x	1	17	53802	68	180.3	1	1	132	.35	12	5	ND	2	5	11	82	210	2	.01	.01	2	2	.01	2	.01	2	.01	.01	.01	2	-	
RX-6166D 5x	7	92	30484	14808	153.0	3	1	107	.52	64	5	ND	2	9	219	140	52	2	.05	.01	2	1	.02	4	.01	2	.02	.01	.02	2	-	
RX-6168D 5x	11	54	32225	23828	147.4	2	1	9	.85	666	5	ND	2	7	327	143	61	2	.01	.01	2	1	.01	2	.01	2	.01	.01	.02	2	-	
STD C	19	58	42	123	6.4	68	26	1148	3.82	42	20	8	35	49	16	15	19	56	.44	.14	38	35	.88	182	.07	37	1.63	.06	.13	13	-	

^x Assay digestion require for correct data.

5x from .1 gm digestion. - multiply results by 5.

ME ANALYTICAL LABORATORIES LTD.
2 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
ONE 253-3158 TELEX 04-53124

DATE RECEIVED: OCT 19 1984

DATE REPORT MAILED: *Oct 26/84*

ASSAY CERTIFICATE

SAMPLE TYPE: PULP

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER

DURFELD GEOLOGICAL

FILE # 84-3070B

PAGE 1

SAMPLE#	Ag oz/t
RX-6161D	32.04
RX-6162D	29.27
RX-6163D	23.01
RX-6164D	.33
RX-6165D	1.49
RX-6166D	21.70
RX-6167D	.22
RX-6168D	22.05
RX-6169D	.39
RX-6170D	.04

	Ag g/tonne
<i>Rx 6161D</i>	<i>1098.33</i>
<i>62</i>	<i>1003.38</i>
<i>63</i>	<i>788.01</i>
<i>64</i>	<i>11.31</i>
<i>65</i>	<i>51.08</i>
<i>66</i>	<i>743.88</i>
<i>67</i>	<i>7.21</i>
<i>68</i>	<i>755.84</i>
<i>69</i>	<i>13.31</i>
<i>6170D</i>	<i>1.37</i>

APPENDIX II

ITEMIZED COST STATEMENT

Personal

R.M. Durfeld - 3 days @ \$200/day \$ 600.00

Transportation

Truck Rental - 3 days @ \$ 40/day 120.00

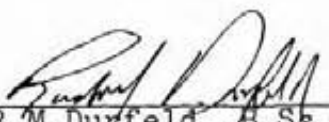
Truck Fuel - 90.00

Board - 3 days @ \$30/day 90.00

Geochemical Analyses - 636.05

Report Preparation - 300.00

Total \$1836.05


R.M. Durfeld B.Sc.
Geologist

Durfeld Geological Management Ltd.

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

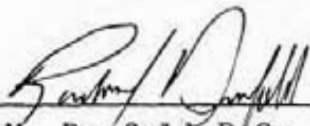
Telephone (604) 392-4691

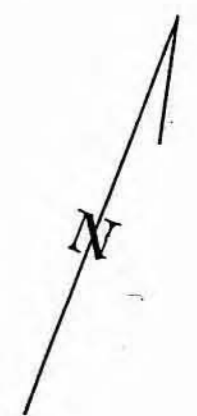
APPENDIX III

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 the BON 1, 2 and 5 mineral claims during the period September 25 to 27, 1984.


R.M. Durfeld B.Sc.
(Geologist)

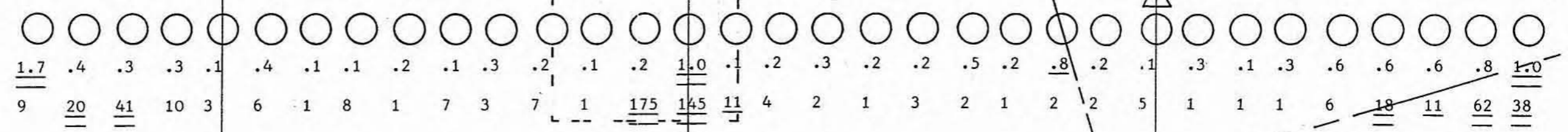


BON 1

BON 2

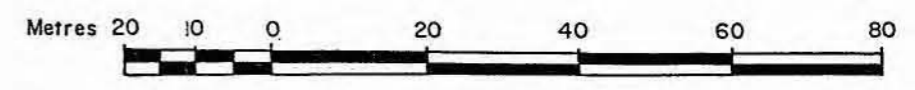
32+00N

SILVER
GOLD



LEGEND

- Claim Post
- - - Claim Outline
- Soil Sample Site
- △ Rock Sample Site
- 1.0 ppm Silver
- 38 ppb Gold
- 11 Anomalous Value
- 18 Strongly Anomalous Value
- □ Detail Area (1:100)



Durfeld Geological Management Ltd.

BON PROPERTY
GEOCHEMICAL PLAN
(silver, gold)

SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:1000	Mar 85	rmd	93A/14	2

1+00W

BLO

1+00E



BON 1

BON 2

32+00N

COPPER

41 46 39 78 76 53 35 53 58 67 86 95 27 12 30 26 11 55 30 35 24 37 47 36 50 42 40 37 53 72 43 41 83

LEAD

203 142 141 160 46 37 27 42 27 55 586 82 -20 -18 -368 82 37 81 12 74 119 230 197 157 56 62 27 84 189 332 161 227 386

ZINC

137 175 100 108 72 55 60 67 63 78 369 126 79 60 199 88 84 168 74 151 83 147 139 287 103 80 78 81 111 180 113 131 204

LEGEND

□ Claim Post

--- Claim Outline

○ Soil Sample Site

△ Rock Sample Site

○
24 ppm Copper

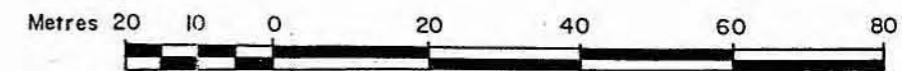
○
119 ppm Lead

○
83 ppm Zinc

197 Anomalous Value

332 Strongly Anomalous Value

Detail Area (1:100)



Durfeld Geological Management Ltd.

BON PROPERTY
GEOCHEMICAL PLAN
(copper, lead, zinc)

SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:1000	Mar 85	rmd	93A/14	3

1+00W

B10

1+00E



BON 1

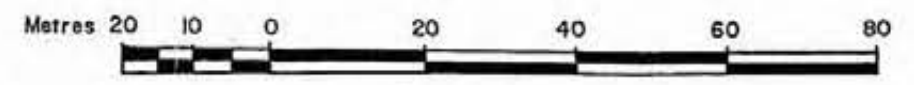
BON 2

32+00N

	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
MANGANESE	<u>1226</u>	1109	<u>1237</u>	<u>1585</u>	916	530	558	855	948	971	<u>3600</u>	<u>1585</u>	301	335	1125	<u>1280</u>	644	<u>2533</u>	601	987	<u>1192</u>	1007	<u>2885</u>	<u>2304</u>	834	708	594	851	592	<u>1410</u>	635	751	<u>1345</u>
ARSENIC	14	8	8	12	10	7	3	2	8	<u>46</u>	21	<u>50</u>	<u>-30</u>	<u>-48</u>	<u>-108</u>	9	9	<u>64</u>	2	11	5	25	14	10	15	12	11	16	20	24	24	21	<u>35</u>
TUNGSTEN	4	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	<u>47</u>	<u>7</u>	2	2	2	<u>322</u>	4	<u>10</u>	3	4	<u>6</u>	3	2

LEGEND

- Claim Post
- Claim Outline
- Soil Sample Site
- △ Rock Sample Site
- 594 ppm Manganese
- 11 ppm Arsenic
- 4 ppm Tungsten
- 6 Anomalous Value
- 47 Strongly Anomalous Value
- Detail Area (1:100)

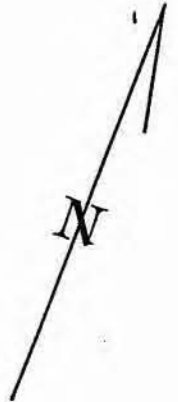


<i>Durfeld Geological Management Ltd.</i>				
BON PROPERTY GEOCHEMICAL PLAN (manganese, arsenic, tungsten)				
SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:1000	Mar 85	rmd	93A/14	4

1+00W

B10

1+00E



31+90N

6169

6168

6167

6166

6165

Quartz, sericite, galena vein.

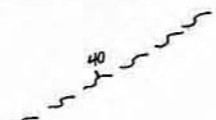
6161

Galena vein

Folded Muscovite Schist.

6162

Quartz, galena rubble



Folded Muscovite Schist

6163 Δ Discontinuous lense of quartz and galena.

Limestone

45

6164 Δ

2 metre quartz with sericite vein.

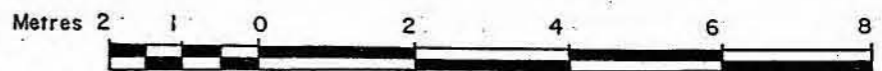
31+80N

LEGEND

\circ Soil Sample Site

Δ Rock Sample Site

┌ Sample Interval



Durfeld Geological Management Ltd.

BON PROPERTY

DETAIL AREA

SAMPLE LOCATION AND GEOLOGY

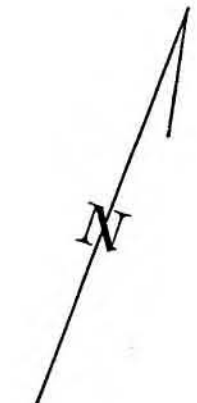
SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:100	Mar 85	rmd	93A/14	5

0+70E

0+80E

0+90E

1+00E



31+90N

△ 29.27, 540

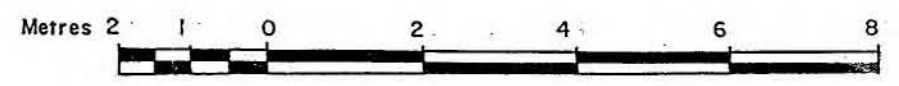
.39, 47
 22.06, 6200 } △ 32.04, 490
 .22, 13
 21.7, 520 }
 1.49, 110 }

23.01, 830 △

0.33, 470 △

1+00E

31+80N



LEGEND

○ Soil Sample Site

△ Rock Sample Site

┌ Sample Interval

21.7, 520 oz/ton silver, ppb gold

0+70E

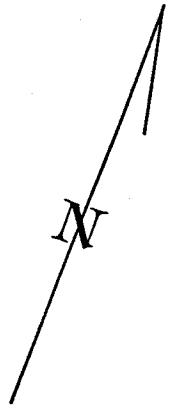
0+80E

0+90E

Durfeld Geological Management Ltd.

BON PROPERTY
 DETAIL AREA - ASSAY PLAN
 (silver, gold)

SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:100	Mar 85	rmd	93A/14	6



31+90N

△ 100, 12.6, 3.0

△ 70, 14.2, 2.0

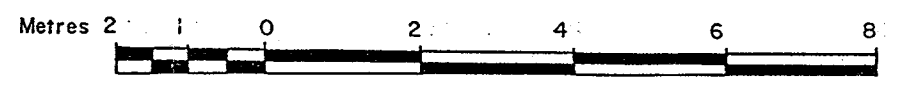
20, .2, .1
 270, 16.1, 11.9
 46, .002, .4
 460, 15.2, 7.4
 123, 3.3, .8

85, 26.9, 0.03 △

16, .06, .05 △

1+00E

31+80N



LEGEND

○ Soil Sample Site

△ Rock Sample Site

┌ Sample Interval

123, 3.3, .8 ppm copper, % lead, % zinc

0+70E

0+80E

0+90E

Durfeld Geological Management Ltd.

BON PROPERTY
 DETAIL AREA - ASSAY PLAN
 (copper, lead, zinc)

SCALE	DATE	BY	N.T.S. No.	DWG. No.
1:100	Mar 85	rmd	93A/14	7