OVERBURDEN DRILLING MANAGEMENT LIMITED
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D A T A T R A N S M I T T A L R E P O R T

DATE: 22-Dec-09

ATTENTION: **Mr. Don Elsenheimer, Ph.D, Economic Geologist**

CLIENT: **Minnesota Department of Natural Resources**
500 Lafayette Rd
St. Paul, MN
55155-4045
USA

E-MAIL: **donald.elsenheimer@dnr.state.mn.us**

NO. OF PAGES: _____

PROJECT: **BFT**

FILE NAME: **MDNR - Elsenheimer - (BFT) - Dec 2009**

SAMPLE NUMBERS: **BFT-41, 42, 31 to 33, 21, 11 and 12**

BATCH NUMBER: **4792**

TOTAL SAMPLES: **8**

THESE SAMPLES WERE PROCESSED FOR: **GOLD GRAIN COUNT**
HMC

SPECIFICATIONS:

1. Submitted by client: ±15 kg till and sand samples.
2. When not clay-rich, samples prescreened to -5 mm in the field. Larger pebbles removed by hand from the clay-rich samples.
3. Heavy liquid separation specific gravity: 3.20.

REMARKS:

The samples were processed in order listed by the client.
Heavy mineral concentrate weights now complete.

Remy Huneault, P.Geo.
Laboratory Manager

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
BFT-41	135	130	4	1	53.2	1735	1732	3	<1
BFT-42	21	21	0	0	49.2	299	299	0	0
BFT-31	42	40	1	1	61.2	245	242	3	<1
BFT-32	20	19	1	0	54.4	61	59	1	0
BFT-33	30	29	1	0	62.4	311	311	<1	0
BFT-21	33	32	1	0	55.2	217	213	3	0
BFT-11	26	25	1	0	55.7	301	301	<1	0
BFT-12	18	17	1	0	52.4	72	72	<1	0

*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

OVERBURDEN DRILLING MANAGEMENT LIMITED
DETAILED GOLD GRAIN DATA

Project: BFT
Filename: MDNR - Elsenheimer - (BFT) - Dec 2009
Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
BFT-41	Yes	3 C	15	15	1	1	1	3			~15 pyrite (50-125µm).
		5 C	25	25	4	2		6			
		8 C	25	50	21	1		22			
		10 C	25	75	8			8			
		13 C	25	100	1			1			
		10 C	50	50	23			23			
		13 C	50	75	28			28			
		15 C	50	100	12			12			
		18 C	50	125	1			1			
		20 C	50	150	1			1			
		15 C	75	75	8			8			
		18 C	75	100	5			5			
		20 C	75	125	3			3			
		22 C	75	150	1			1			
		20 C	100	100	3			3			
		22 C	100	125	4			4			
		50 M	100	150	1			1			
		25 C	125	125	2			2			
		31 C	125	200	2			2			
		36 C	125	250	1			1			
								135	53.2	1735	
BFT-42	Yes	3 C	15	15	2			2			No sulphides.
		5 C	25	25	2			2			
		8 C	25	50	1			1			
		10 C	50	50	1			1			
		13 C	50	75	4			4			
		15 C	50	100	1			1			
		15 C	75	75	2			2			
		18 C	75	100	5			5			
		20 C	75	125	2			2			
		25 C	125	125	1			1			
								21	49.2	299	
BFT-31	Yes	3 C	15	15	2		1	3			No sulphides.
		5 C	25	25	5			5			
		8 C	25	50	6			6			
		10 C	25	75	2			2			
		10 C	50	50	7	1		8			
		13 C	50	75	8			8			
		15 C	50	100	4			4			
		18 C	50	125	1			1			
		15 C	75	75	2			2			
		18 C	75	100	1			1			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
								42	61.2	245	
BFT-32	Yes	3 C	15	15	2			2			No sulphides.
		5 C	25	25	3			3			

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Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
		8 C	25	50	4	1		5			
		10 C	25	75	2			2			
		10 C	50	50	3			3			
		13 C	50	75	5			5			
								20	54.4	61	
BFT-33	Yes	5 C	25	25	1	1		2			No sulphides.
		5 C	25	25	2			2			
		10 C	50	50	7			7			
		13 C	50	75	4			4			
		15 C	50	100	4			4			
		18 C	50	125	1			1			
		15 C	75	75	1			1			
		18 C	75	100	5			5			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
		20 C	100	100	1			1			
		22 C	100	125	1			1			
								30	62.4	312	
BFT-21	Yes	5 C	25	25	4			4			No sulphides.
		8 C	25	50	6			6			
		10 C	25	75	3	1		4			
		13 C	25	100	1			1			
		10 C	50	50	6			6			
		13 C	50	75	4			4			
		15 C	50	100	1			1			
		15 C	75	75	3			3			
		18 C	75	100	2			2			
		20 C	75	125	2			2			
								33	55.2	217	
BFT-11	Yes	5 C	25	25	3	1		4			No sulphides.
		8 C	25	50	1			1			
		10 C	25	75	2			2			
		10 C	50	50	1			1			
		13 C	50	75	4			4			
		15 C	50	100	4			4			
		25 M	50	175	1			1			
		15 C	75	75	3			3			
		18 C	75	100	4			4			
		20 C	75	125	1			1			
		22 C	75	150	1			1			
								26	55.7	301	
BFT-12	Yes	3 C	15	15	3			3			No sulphides.
		5 C	25	25	4	1		5			
		8 C	25	50	5			5			
		10 C	25	75	1			1			
		10 C	50	50	1			1			

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DETAILED GOLD GRAIN DATA

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Sample Number	Panned Yes/No	Dimensions (microns)			Number of Visible Gold Grains				Nonmag HMC Weight (g)	Calculated V.G. Assay in (ppb)	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
13 C			50	75	1			1			
18 C			50	125	1			1			
20 C			50	150	1			1			
								18	52.4	73	

*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

OVERBURDEN DRILLING MANAGEMENT LIMITED
RAW SAMPLE DESCRIPTIONS AND PROCESSING WEIGHTS

Project: BFT
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Total Number of Samples in this Report = 8

Batch Number: 4792

Sample Number	Weight (kg wet)				-2.0 mm Table Concentrate Weight (g dry					Sample Description													
						Heavy Liquid Separation (S.G. 3.3)				Clasts (> 2.0 mm)*					Matrix (<2.0 mm)								
							HMC				Percentage				Distribution					Colour			
	Bulk Rec'd	Table Split	+2.0 mm Clasts *	Table Feed	Total	Lights	Total	Non Mag	Mag	Size	V/S	GR	LS	OT	S/U	SD	ST	CY	ORG	SD	CY	CLASS
BFT-41	14.6	14.1	0.8	13.3	380.0	323.7	56.3	44.3	12.0	P	30	70	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-42	13.2	12.7	0.4	12.3	296.7	262.1	34.6	27.4	7.2	P	25	75	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-31	16.1	15.6	0.3	15.3	330.2	275.6	54.6	54.2	0.4	G	35	65	0	0	U	+	Y	-	N	BE	BE	TILL
BFT-32	14.2	13.7	0.1	13.6	268.3	254.0	14.3	13.9	0.4	G	35	65	0	0	U	-	Y	+	N	BE	BE	TILL
BFT-33	16.4	15.9	0.3	15.6	439.8	275.7	164.1	122.2	41.9	G	40	60	0	0	S	FM	-	N	N	BE	NA	SAND
BFT-21	14.8	14.3	0.5	13.8	342.8	268.8	74.0	61.0	13.0	G	40	60	0	0	U	Y	Y	Y	N	BE	BE	TILL
BFT-11	14.5	14.0	0.1	13.9	381.0	293.1	87.9	86.7	1.2	G	20	80	0	0	U	+	Y	-	N	LOC	LOC	TILL
BFT-12	14.2	13.7	0.6	13.1	270.4	239.8	30.6	27.6	3.0	P	40	60	0	0	U	-	+	Y	N	LOC	LOC	TILL

*When not clay-rich, samples prescreened to -5 mm in the field. Larger pebbles removed by hand from the clay-rich samples.

*Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 1/250th of the table feed.

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY ABBREVIATIONS

SEDIMENT LOG

Largest Clasts Present:

- G: Granules
- P: Pebbles
- C: Cobbles

Clast Composition:

- V/S: Volcanics and/or sediments
- GR: Granitics
- LS: Limestone, carbonates
- OT: Other Lithologies (refer to footnotes)
- TR: Only trace present
- NA: Not applicable
- OX: Very oxidized, undifferentiated

Matrix Grain Size Distribution:

- S/U: Sorted or Unsorted
- SD: Sand (F: Fine; M: Medium; C: Coarse)
- ST: Silt
- CY: Clay
- Y: Fraction present
- +: Fraction more abundant than normal
- -: Fraction less abundant than normal
- N: Fraction not present

Matrix Organics:

- ORG: Y: Organics present in matrix
- N: Organics absent or negligible in matrix
- +: Matrix is mainly organic

Matrix Colour:

Primary:

- BE: Beige
- GY: Grey
- GB: Grey-beige
- GN: Green
- GG: Grey-green
- PP: Purple
- PK: Pink
- PB: Pink-Beige

Secondary (soil):

- OC: Ochre
- BN: Brown
- BK: Black

Secondary Colour Modifier:

- L: Light
- M: Medium
- D: Dark

GOLD GRAIN LOG

Thickness:

- VG: Visible gold grains
- M: Actual measured thickness of grain (microns)
- C: Thickness of grain (microns) calculated from measured width and length

KIM (kimberlite indicator mineral) LOG

- GP: Purple to red peridotitic garnet (G9/10 Cr-pyrope)
- GO: Orange mantle garnet; includes both eclogitic pyrope-almandine (G3) and Cr-poor megacrystic pyrope (G1/G2) varieties; may include unchecked (by SEM) grains of common crustal garnet (G5) lacking diagnostic inclusions or crystal faces
- DC: Cr-diopside; distinctly emerald green (paler emerald green low-Cr diopside picked separately)
- IM: Mg-ilmenite; may include unchecked (by SEM) grains of common crustal ilmenite lacking diagnostic inclusions or crystal faces
- CR: Chromite
- FO: Forsterite

MMSIM (metamorphosed or magmatic massive sulphide indicator mineral) and PCIM (porphyry Cu indicator mineral) LOGS

Adr: Andradite	Cr: Chromite	Ky: Kyanite	Sil: Sillimanite	Ttn: Titanite
Ap: Apatite	Fay: Fayalite	Mz: Monazite	Spi: Spinel	

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Largest Clasts Present:

- G: Granules
- P: Pebbles
- C: Cobbles

Matrix Organics:

ORG:
- Y: Organics present in matrix
- N: Organics absent or negligible in matrix
- +: Matrix is mainly organic

Clast Composition:

Ase:	Anatase	Gh:	Gahnite	Ol:	Olivine	Sps:	Spessartine
Ax:	Axinite	Gr:	Grossular	Opx:	Orthopyroxene	St:	Staurolite
Cpy:	Chalcopyrite	Gth:	Goethite	Py:	Pyrite	Tm:	Tourmaline

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