

ORIGINAL
NOT TO BE
REMOVED FROM OFFICE

BP RESOURCES CANADA LIMITED - MINING DIVISION
DIAMOND DRILL LOG

PROJECT: Victoria Lake DRILLED BY: Logan Drilling DATE STARTED: Aug. 19/89 AZIMUTH: 115° LOCATION: UTM Coordinates HOLE #: BJ-86
E516700 mE
N5406860 mN
PROPERTY: Woodmans Brook LOGGED BY: J.C. Poole DATE COMPLETED: Aug. 21/89 DIP: 45° SHEET #: 1 of 8
LICENCE: Vol.2, Fol.23 & CORE SIZE: NQ TOTAL NTS:
Buchans Junction
Lot B
DEPTH: 330'

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	% REC.	Au	ASSAYS Ag	Cu	Pb	Zn
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Purpose of Hole

To determine the relationship between Sandy Lake Formation arkose and conglomerate, and Lundberg Hill lithologies immediately east of Woodman's Brook, near the power line.

If a fault relationship exists - to determine if Buchans River rocks or intervene.

SUMMARY

0	10	Overburden
10.5	73.3	Lundberg Hill Mafic pyroclastic rocks.
73.3	81	Mixed gouge and Gouged rock.
81'	330'	Sandy Lake Arkose and Conglomerate

0	10.5'	Overburden
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10.5'	73.3'	<u>Mafic Pyroclastic rocks</u>
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- Medium green, spotted and streaked white, massive to foliated, plagioclase crystal and mafic fragmental lapilli tuffs, Average K=0.1 - 0.2.
 - Plagioclase crystals-anhedral to subhedral grains, 1 to 5mm, <5% in matrix.
 - Majority of matrix 1 to 4mm, angular, very fine to fine volcanic/tuffaceous fragments.
- Mafic volcanic fragments - angular, up to 15cm, plagioclase porphyritic (1-7mm, up to 30% of rock), locally amygdular (< 1mm, up to 20%, chlorite filled).
 - Also carbonate filled amygdules - elongate, irregular features up to 12mm in some fragments.
- Rare rounded quartz grains (?) / void fillings in matrix.

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									Ag	Cu			

Alteration:

- Chloritization of all fragment types throughout, some very dark chloritized fragments.
- Carbonate alteration throughout, esp. along microfractures, ≤ 5 mm, up to 3% of rocks, also minor irregular to equant void fillings up to 10mm (associated with/after amygdules esp. in some larger mafic volcanic fragments).
- Minor fine pyrite in carbonate veinlets throughout (<1 mm, $<1\%$), some with a yellow-greenish colour - chalcopyrite?
- Plagioclase crystals/phenos in matrix and in larger mafic fragments with a light brownish color - saussuritization and hematization.
- Reddish rusty discoloration associated with carbonate alteration/veinlets locally developed $>$ approx. 35'.
- Chalky white mineral along some fracture surfaces - gypsum or wollastonite ?
- Silica veinlets more important $>38'$

15.2 - 19.0'

Larger fragments ? of massive amygdular mafic volcanic/diabase. Chlorite filled amygdules and quartz pyrite filled amygdules, up to 5mm, $<1\%$ of rock.

34 - 35'

Tiny $<<1$ mm irregular yellowish white sericite and epidote specks after a mafic mineral (?), in larger fragments.

40.4' to 40.9'

Quartz and feldspar porphyritic fragment?, Quartz ≤ 5 mm, 5% of rock, smaller fragments @ approx. 40.9', apart from larger fragment.

[illegible]

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	% REC.	Au	ASSAYS Ag	Cu	Pb	Zn
110'	116'	158'										
		Clasts - angular to subrounded, a mix of felsic to intermediate quartz and/or feldspar porphyritic rocks, (Qtz - 1-5mm anhedral grains, plagioclases $\leq$ 3mm subhedral grains).										
		- Quartz grains, up to 7mm, rounded to angular.										
		- Feldspar - plagioclase important, altered with a reddish discoloration.										
	130.5'											
		- Granite clast										
	134.5'	158'										
		- Clasts generally $\leq$ 3cm										
	142.3'											
		- Bedding? approx. 45° to long axis of core										
	142.3'	143'										
		- Arkose with greenish epidotized matrix										
	145.3	147.5										
		- Diabase Dyke - Bleached, chilled margin @ 145.3', chlorite filled amygdules $\leq$ 2mm, irregular calcite veinlets $\leq$ 10mm. K=2.8										
	156.5'											
		- Gouge at 30° to long axis of core with a quartz vein immediately below										
	approx. 158' - 175' - Clasts up to 7cm											
	169.2'	169.4										
		- Fine to coarse sand band, discordant sedimentant band or injected structure? into the conglomerate, graded (fine, grained @ 169.2 and coarser grained toward 169.4).										
	175' - Gouge - 2cm gouge; 70° to long axis of core.											
	approx. 175' - approx. 181' - Clasts generally $\leq$ 3cm.											
	181'	181.5'										
		- Chloritic dark green brown wacke.										
		- @ 181.5' - Irregular sheared contact with pink arkose.										
	182'	188'										
		- Variably sheared, silicified and epidotized pink arkose.										
	182.5'	182.9'										
		- Sheared chloritized and sericitized diabase dyke, K=1.5, shearing at 60° to long axis of core.										
	188'	197.5'										
		- Pink and streaky dark green, fine to coarse sand $\leq$ 3mm. K=0.1										
	189'	190'										
		- Diabase dyke with good chilled margins, approx. 70° to long axis of core. K=1.7.										

[illegible]