

DRILL HOLE REPORT

Hole Number **H-18-3512**

Project: **BUCHANS 2018**

Project Number:

<u>Drilling</u>		<u>Casing</u>		<u>Core</u>		<u>Location</u>		<u>Other</u>	
Azimuth:	0	Length:	29.1	Dimension:	BQ	Township:	BUCHANS	Logged by:	Jim Harris
Dip:	-90	Pulled:	no	Storage:	RRO Buchan	Claim No.:	ML.222	Relog by:	
Length:	68	Capped:	yes	Section:		NTS:	12A/15	Contractor:	Cabo Drilling
Started:	17-Jul-18	Cemented:		Hole Type	DD	Hole:	SURFACE	Spotted by:	Paul Moore/David Butler
Completed:	19-Jul-18							Surveyed:	
Logged:	19-Jul-18	Relogged:						Surveyed by:	
Comment:	rename H-18-3512. NW casing to 18.3 m then NQ rods with a shoe bit to 27.5 m. Lost core at the start or casing not deep enough. Hole checked by PJM July 22, 2018.					<u>Local Grid Coordinate</u>		<u>UTM Coordinate</u>	
						East:	0	East:	512300.25997
						North:	0	North:	5408237.4689
						Elev.:	233.2475	Elev.:	233.2475
						Zone:	21	NAD:	1983
								Left in hole:	Casing
								Making water:	
								Multi shot survey:	

Deviation

Distance	Azimuth	Dip	Type	Good	Comn
0.00	0.00	-90.00	C	☒	

LITHOLOGY REPORT

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)
0.00	29.10	OB Overburden									
		Upper Contact:									
		Colour:									
		Structure Maj.:									
		31.00 - 0.00									
		Type/Angle to Core Axis									
		Fault 45									
		Comment									
		major thrust - APT?									

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29.10	31.00	Maf/Int Tuff	Maf-Int,x-fol,(py)	WB-vol								
		Upper Contact:										
		Colour:										
		Sheared and brecciated mafic to intermediate volcanic (tuffs?, strongly foliated to banded), likely Woodmans Brook volcanics or sheared Sandy Lake basalt. Grey-green with carbonate wisps to bands. Strongly sheared at 45 to 60 deg tca with common brittle faulting. The last 0.70 m is gouge and bx. Moderate sericite-chlorite alteration and <1% dissemin. Py. Medium green. Bottom 50 cm of unit is gouge and very strongly sheared.										
31.00	36.05	ARK	Arkose	sst and cgl								
		Upper Contact: Tectonic Shear										
		Colour:										
		Pink arkose, sandstone and pebble conglomerate. Assorted small, semi-rounded clasts and common qtz grains. The first 40cm is a carbonate vein breccia. Faulting locally throughout and at the lower contact. U.C. major structure (i.e., Airport Thrust) with mylonitic bands at 45 degrees to C.A.										

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From (m)	To (m)	Lithology			Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)
36.05	43.50	Qtuff	QtzXtal,x-ser,5%py,<3%sp-gl	QXtal,min	18-319548	36.00	37.00	1.00	0.00	0.01	0.01	0	28
		Upper Contact:			18-319549	37.00	38.00	1.00	0.00	0.03	0.05	2	103
		Colour:			18-319551	38.00	39.00	1.00	0.01	0.10	0.19	5	33
		Good strongly sericitized banded quartz crystal tuffs with qtz<8%<2 mm & feld<6%<2 mm (pink). Unit has <5% py overall with local sections of up to 30% pyrite over 25 cm (with trace to 2% base metal sulphides). From 40.7 to 42.5 m unit may be more rhyolitic breccia, but becomes more crystal tuff below 42.5 m.			18-319552	39.00	40.00	1.00	0.04	0.56	0.92	11	106
		Grey to pale green with small pink feldspar xtals and small 'shattered' quartz xtals. Strong sericite +/- silica +/- chlorite alteration. Common small fault gouge zones, foliated and/or layered at 60 to 75 deg tca. 2 to 5% disseminated py with local sp and ga. Higher percentage of sulphide in silicified zones. From 41.2 to 41.5 m more chloritic alteration. From 42.9 to 43.7 m small sulphide and barite lenses in lithic tuff to bx, (deformed dbx or broken veins?), 2 to 4% sp and ga. U.C. is gouge and lost core and likely a shear zone/fault?			18-319553	40.00	41.00	1.00	0.08	0.66	1.96	7	59
					18-319554	41.00	42.00	1.00	0.02	0.01	0.01	3	9
					18-319555	42.00	43.00	1.00	0.03	0.28	0.80	9	45
					18-319556	43.00	43.50	0.50	0.07	1.14	1.92	33	370
43.50	59.00	IFW	Int-maf,f-phyric,bx,Xser,2%py(sp,gl)	altered mafic	18-319557	43.50	44.50	1.00	0.01	0.03	0.07	2	53
		Upper Contact: Conformable Gradational			18-319558	44.50	45.50	1.00	0.00	0.03	0.04	2	71
		Colour:			18-319559	45.50	46.50	1.00	0.00	0.02	0.02	2	56
		Pale grey-green, altered intermediate to mafic, feldspar-phyric (gone to sericite, f<6%<2 mm) flow breccia (pillow basalt?) and lithic tuff to breccia, intermediate footwall. U.C. very good conformable contact! Unit is dominantly blocks typically <20 cm over top 4 m then changes to more massive, weakly brecciated (monolithic) "jig-saw" breccia with no exotic fragments throughout gives dull green to sercitic green colour. No amygdulites except for exotic fragment at 57 m. Unit hosts 2% disseminated to possibly stringer pyrite with trace sp+gl. Note from 58.0 to 58.07 m is a carbonate-amygdaloidal dark-green basalt block (possibly a tectonic fragment ripped by underlying thrust as unit is highly sheared below 57 m on a splay shaer. From 47.5 to 47.65 fault gouge and bx, also 56.6 to 56.75m. Some caving from overburden at 54 m with a bit change, casing not to bed rock.			18-319561	46.50	47.50	1.00	0.01	0.02	0.05	3	89

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From	To	Lithology		Sample #	From	To	Length	Cu	Pb	Zn	Ag	Au		
(m)	(m)							(%)	(%)	(%)	(ppm)	(ppb)		
59.00	62.00	FLT	Fault											
		Upper Contact:												
		Colour:												
		Highly sheared and attenuated basalt and sediments, medium green to green-grey. Only 1 m core recovered, broken with common gouge - BR Flt. Occasional jasper fragments. BRF/OBF.												
		Structure Maj.:	Type/Angle to Core Axis	Comment										
		59.00 - 62.00	Fault	major structure BRT/OBF?										
62.00	68.00	ARK	Arkose											
		Upper Contact:												
		Colour:												
		Pink arkosic sandstone and pebble conglomerate, as in previous holes. Fractured with epidote veinlets down to 64.0 m. Top of unit to 63.2 m is dominated by dark-green siltstone to sandstone. Below 63.2 m is more pinkish pebble conglomerate. U.C. major structure (BRF/OBF?). E.O.H. @ 68 m July 19, 2018.												

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68.000.00

EOH

End of Hole

Upper Contact:

Colour:

EOH