

DRILL HOLE REPORT

Hole Number **H-18-3511**

Project: **BUCHANS 2018**

Project Number:

<u>Drilling</u>	<u>Casing</u>	<u>Core</u>	<u>Location</u>	<u>Other</u>
Azimuth: 0	Length: 27.5	Dimension: NQ	Township:	Logged by: Jim Harris
Dip: -90	Pulled: no	Storage: RRO Buchan	Claim No.: ML.222	Relog by:
Length: 59	Capped: yes	Section:	NTS: 12A/15	Contractor: Cabo Drilling
Started: 10-Jul-18	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Paul Moore/David Butler
Completed: 16-Jul-18				Surveyed:
Logged: 16-Jul-18	Relogged:			Surveyed by:
Comment: Rename H-18-3511. Casing drilled to 65 ft on first attempt, core barrel lost in OB when running back down the hole with a casing advancer. Hole checked PJM July 22, 2018. Casing not found post-drilling. Point not re-surveyed.				Geophysics:
		Local Grid Coordinate	UTM Coordinate	Geophysical Contractor:
		East: 0	East: 512250.25717	
		North: 0	North: 5408237.4689	
		Elev.: 234.3263	Elev.: 234.3263	Left in hole: Core Barrel + Bit
		Zone: 21	NAD: 1983	Making water:
				Multi shot survey:

Deviation

Distance	Azimuth	Dip	Type	Good	Comn
0.00	0.00	-90.00	C	☒	
59.00	328.60	-88.20	F	☒	mag fix

LITHOLOGY REPORT

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)
0.00	27.50	OB Overburden									
		Upper Contact:									
		Colour:									
		Some dropped and re-drilled core at the start. OB may be to 27.0 m.									
		Structure Maj.:									
		52.10 - 0.00									
		Type/Angle to Core Axis									
		Fault									
		Comment									
		BRF/OBF-thrust									

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)
27.50	31.70	ARK Arkose,Q,barren conglomerate Upper Contact: Colour: Pink, assorted felsic and occasional mafic pebbles in an arkosic matrix. 15 cm fault gouge at lower contact. Quartz grains in matrix and in porphyritic rhyolite clasts are cloudy white-grey, <6 mm, and typically <3 mm, <8% overall. Unit is barren.	18-319537	30.70	31.70	1.00	0.00	0.00	0.00	0	3
31.70	32.00	MS Massive Sulphide high grade Upper Contact: Tectonic Shear Colour: High-grade, Zn-Pb-rich massive sulphides. U.C. is a ~5 to 15? cm gouge zone with pasty sheared grey sulphide-rich matrix. Before sawn, observed 5 to 6 cm fault gouge at both contacts.	18-319538	31.70	32.00	0.30	2.05	0.28	22.10	23	165
Structure Maj.:Type/Angle to Core AxisComment 31.70 - 31.85Faultfault											

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From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)										
32.00	34.10	Qrhy	Qtz-rhy/Xtal,X-shr,ser,5%py(sp,gl)	Fault Qrhy(BR)	18-319539	32.00	34.10	2.10	0.10	0.50	0.86	5	148									
		Upper Contact:	Tectonic	Shear																		
		Colour:																				
		Only 70 cm recovered, pale sericitic green-grey quartz-phyric rhyolite and maybe tuff with qtz<5%<2 mm and disseminated to possibly stringer pyrite with some base metals (sp-gl). U.C. is 20 cm compact gouge and entire unit is badly sheared and broken with local gouge.																				
		Structure Maj.:	Type/Angle to Core Axis	Comment																		
		32.00 - 34.10	Fault																			
34.10	36.50	Qrhy	Qtz-rhy,shr,x-ser-sil,5%py(sp-gl)	Min,Qtz-rhy,5%py	18-319541	34.10	35.00	0.90	0.09	0.49	0.91	10	40									
		Upper Contact:	Tectonic	Shear	18-319542	35.00	36.50	1.50	0.07	0.03	0.10	3	85									
		Colour:																				
		Less sheared version of overlying unit. Good sheared quartz-phyric rhyolite with qtz<5%<2 mm in glassy tectonic blocks/fragments containing <3% qtz<2 mm as opposed to shictose qtz-rich banded Xtal tuffs.																				
		Unit is light grey-green, very strongly silicified rock. Commonly fractured and broken with local faulting, about 50% recovery. Small qtz grains evident locally. Could be a faulted/broken rhyolite. 5 to 6% disseminated py and to 1% sphalerite.																				

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<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>Cu</i> (%)	<i>Pb</i> (%)	<i>Zn</i> (%)	<i>Ag</i> (ppm)	<i>Au</i> (ppb)
36.50	41.00	Qtuff QtzXtal/rhy,x-shr/fit,10%py(cp,sp,gl) QXtal,10%py Upper Contact: Tectonic Shear Colour: Fault/strongly sheared, strongly sericitized +/- silica altered and mineralized quartz crystal tuff with qtz<5%,<1.5 mm and 10% pyrite with trace base metal sulphides (cp,sp,gl). U.C. is faulted and entire unit is technically a fault zone. From 38 to 41 m about 45% recovery. Grey clay gouge and breccia.	18-319543	36.50	38.00	1.50	0.16	0.01	0.09	2	70
			18-319544	38.00	41.00	3.00	0.32	0.23	1.04	7	58
		Structure Maj.: Type/Angle to Core Axis Comment 36.50 - 41.00 Fault									
41.00	52.10	IFW Intr-maf,f-phyr,ser,sil,1%py(sp,gl) altered mafic Upper Contact: Tectonic Fault Colour: Altered intermediate to mafic volcanic, pale grey-green, sericitic rock with feldspar (<5%,<2.5 mm gone to sericite) and pervasive moderate sericite-silica alteration as well as <1% pyrite (disseminated to possibly stringer with traces base metals. Unit locally sheared and gouged (brittle). Broken core with common faulting, 46.2 to 46.7m is mainly fault bx and also 48.0 to 50.0m. Brittle faulting at shearing at 70 to 80 deg tca at lower contact. U.C. sheared and gouge over 30 cm with possibly some lost core. Unit could be altered sericitized andesite or felsic to intermediate (good IFW) as no amygdules.	18-319545	41.00	42.00	1.00	0.00	0.03	0.05	5	51
			18-319547	42.00	43.00	1.00	0.00	0.00	0.01	0	12

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52.10	59.00	ARK Arkose Upper Contact: Colour: Pink arkosic conglomerate down to 55.4m then mainly sandstone with occasional pebbles. Some prominent quartz clasts and qtz grains in matrix. From 52.1 to 53.3 is mostly finer grained sediment with some jasper, sheared. Unit is barren, but has some pink rhyolite cobbles as well as pink aphyric rhyolite clasts ands few Prom. Qtz rhyolite clasts. Upper 1.2 m dominated by bedded cherty sericitic siltstone. U.C. is 10 cm gouge/pug and 30 cm broken core (BRF/OBF). E.O.H. at 59.0 m July 16, 2018.									
EOH											