

DRILL HOLE REPORT

Hole Number **H-18-3509**

Project: **BUCHANS 2018**

Project Number:

<u>Drilling</u>	<u>Casing</u>	<u>Core</u>	<u>Location</u>	<u>Other</u>
Azimuth: 0	Length: 22	Dimension: NQ	Township:	Logged by: Jim Harris
Dip: -90	Pulled: no	Storage: RRO Buchan	Claim No.: ML.222	Relog by:
Length: 58.2	Capped: yes	Section:	NTS: 12A/15	Contractor: Cabo Drilling
Started: 03-Jul-18	Cemented:	Hole Type DD	Hole: SURFACE	Spotted by: Paul Moore/David Butler
Completed: 05-Jul-18				Surveyed:
Logged: 05-Jul-18	Relogged:			Surveyed by: John Horwood
Comment: Rename H-18-3509. Hole drilled approx 5 m north and 2 m east of proposed surveyed location. Needs to be resurveyed. Hole checked by PJM July 21, 2018.				Geophysics:
		Local Grid Coordinate	UTM Coordinate	Geophysical Contractor:
		East: 0	East: 512159.432	
		North: 0	North: 5408239.308	
		Elev.: 237.0737	Elev.: 238.651	Left in hole: Rods + Bit + Core
			Zone: 21 NAD: 1983	Making water:
				Multi shot survey:

Deviation

Distance	Azimuth	Dip	Type	Good	Comn
0.00	0.00	-90.00	C	☒	
32.00	336.50	-86.70	F	☒	mag fire
58.00	332.60	-86.90	F	☒	mag fire

LITHOLOGY REPORT

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From (m)	To (m)	Lithology	Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)
0.00	22.00	OB Overburden									
		Upper Contact:									
		Colour:									
		A few boulders of granite and mafic vol at start. Casing may not be deep enough due to faulting at start of bedrock.									

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From (m)	To (m)	Lithology		Sample #	From	To	Length	Cu (%)	Pb (%)	Zn (%)	Ag (ppm)	Au (ppb)	
22.00	25.70	Qtuff	QtzXtal(IFW),sheared,xser(py)	shearedQXtal	18-319516	22.00	23.00	1.00	0.05	0.97	2.37	75	1507
		Upper Contact: Tectonic		18-319517	23.00	24.50	1.50	0.02	0.32	0.60	59	149	
		Colour:		18-319518	24.50	26.00	1.50	0.03	0.50	0.88	37	228	
		Mostly a grey clay gouge to fault breccia, a few sheared blocks of good quartz crystal tuff (BR) at start with disseminated sphalerite and galena, only 0.35 m recovered of first metre. Also 1 m lost core between 23 and 26.0 m. From approx 25.5 to 25.65 m is a green, sheared, sericitic tuff, looks out of place and may have caved from overburden.											
25.70	27.60	Fel-Int	Fel-Int bx/dbx,x-ser,20%bar(py,sp,gl)	sm bar, sul	18-319519	26.00	27.00	1.00	0.17	1.39	1.90	10	144
		Upper Contact: Tectonic Shear		18-319521	27.00	27.60	0.60	0.11	1.97	2.12	9	104	
		Altered (ser-sil) aphyric to feldspar phyrlic bx/debris with heavy to semi-massive barite with <20% base metal sulphides (in barite) with some lithic tuff to DBX, but mostly aphyric lapilli tuff. Faulting throughout and the lower contact is a low angle fault. Unit dominated by aphyric to altered feldspar-phyric felsic to intermediate breccias (IFW package). U.C. sheared/fault.											
		Mineralization Maj. : Type/Style/%Mineral Comment											
25.70 - 27.60		BAR											
		COPPER											
		LEAD											
		ZINC											
		PYRITE		semi-massive barite with <20% bm sul.									

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Page 2 of 5

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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)
27.60	54.40	FEL_t/bx Aph-F-phy-bx,xser,mod-sil,5%py(sp,g Min-aphy-fel-bx Upper Contact: Tectonic Shear Colour: Felsic to intermediate lithic tuff to breccia, assorted <1 to 5 cm assorted clasts in a tuffaceous matrix. Moderate to strong sericite- silica alteration. A few qtz grains(?) locally and some clasts with qtz phenos? +/- amygdules. Occasional stkwk qtz-barite-sulphide veins and minor disseminated sulphide, <3% base metal sulphides. Mineralization dies out down hole and is rare below 38 m. Local fault gouge zones down to 35.0 m. Some clasts appear to be altered mafic vol and there is common flattening/welding of 'pumice' fragments. There are a few altered clasts with very fine grained py throughout. From 47.9 to 48.1 m and 51.45 to 51.6 m is fault gouge/breccia. Minor fault gouge from 52.7 to 52.8 m. From 52.8 to 54.4 m is a sheared and altered fine grained 'tuff' with some qtz grains or amygdules. There is to 1% disseminated sphalerite and py throughout. From 54.3 to 54.4 m is fault gouge/breccia. U.C. low angle fault/shear.	18-319522	27.60	28.60	1.00	0.00	0.00	0.01	0	23
			18-319523	28.60	29.20	0.60	0.01	0.09	0.20	1	43
			18-319524	29.20	30.00	0.80	0.03	0.55	1.06	4	132
			18-319525	30.00	31.00	1.00	0.02	0.33	0.45	3	107
			18-319527	31.00	32.00	1.00	0.04	0.23	0.33	4	93
			18-319528	32.00	33.00	1.00	0.01	0.25	0.45	2	48
			18-319529	33.00	34.00	1.00	0.01	0.07	0.09	3	80
			18-319531	34.00	35.00	1.00	0.00	0.01	0.03	1	25
			18-319532	35.00	36.00	1.00	0.00	0.07	0.09	2	28
			18-319533	36.00	37.00	1.00	0.00	0.04	0.03	1	43
			18-319534	37.00	38.00	1.00	0.00	0.01	0.03	1	28
			18-319535	52.10	53.30	1.20	0.00	0.03	0.05	3	61
			18-319536	53.30	54.40	1.10	0.00	0.05	0.07	5	80
54.40	55.60	Maf/Int Tuff Cataclasite-mafic/Int(OBF/BRF?) strong shear-OBF Upper Contact: Tectonic Fault Colour: Dark green strongly sheared and locally brecciated intermediate to mafic volcanic and maybe some sediment/tuff? Intense shearing to mylonite at 55 to 65 deg tca with obvious sheared boudins <2 cm of pale green to grey maf-int rock and possible sediments as well as hematized rock. From 54.4 to 54.9 is mainly brittle fault gouge/breccia. From 55.1 to 55.6 there are some felsic chips, may be sediment (look like SL cherty siltstones; PJM). Fault zone looks barren.									

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55.6058.20

CGL

Conglomerate

Ark-congl(SL)

Upper Contact: TectonicShear

Colour:

Arkosic conglomerate, pink with assorted rounded cobbles, mainly of rhyolite porphyry (with Qtz<1 cm, white) but some mafic vol and sed as well as pink granite. Some finer qtz grains in the matrix to (white). U.C. is sheared gradational as see cobbles/pebbles of redish rhyoiltic material in conformable, but strarned contact with pieces of SL siltstones (pale green).

58.200.00

EOH

End of Hole

Upper Contact:

Colour:

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EOH