

J. TUACH GEOLOGICAL CONSULTANTS, INC.
DIAMOND DRILL CORE LOG

BUCHANS EAST CO-ORDINATES ≈ 143+20E 70+40N

BUCHANS MINE GRID CO-ORD. E 19,430 N 3120

ELEVATION ≈ 224m

DIP AT COLLAR -90°

BEARING _____

TOTAL DEPTH 591' (180.1 m) CORE SIZE Ex

REMARKS _____

Tests
Depth

Dip

Magnetic
Bearing

Corrected
Bearing

Project No. B-4293 Hole No. 89

Property Buchans River Ltd - Buchans East

NTS 12A/15 Grid Name Mine Grid

Drilled to 199' Jul. - Aug. 1928 From 199 to 591' Jul - Aug. 1942

Contractor _____

Logged by J. Harris - 1997

Depth & Lithology	Description	Alteration	Mineralization
0 - 41' (0 - 12.5 m)	Overburden		
41 - 101' (12.5 - 30.8 m)	Mafic to intermediate tuff (vitric - lithic tuff) strongly sheared at 35 - 45° to the core, bleached to grey-green colour rubby core with some fault gouge locally throughout core recoveries average around 50% 75 - 80' - some amygdoidal basalt flow - calcite amygdules - not as strongly sheared	moderate to strong sericitic and chloritic alteration - may be related to shearing waxy green sericite	(Hole deepened in 1942 on recommendation of H. Lundberg based on electrical indications)
101 - 119' (30.8 - 36.3 m)	Felsic to intermediate lithic tuff may be altered equivalent to above light grey, strongly altered and sheared	strong sericitic and “silicic” alteration	pyrite 3 - 5% - mainly in strongly pyritic clasts very fine grained
119 - 150' (36.3 - 45.7 m)	As for 41 - 101' somewhat more mafic, with fairly large amygdoidal basalt fragments - calcite and chlorite amygdules mostly mafic dyke between 136 and 141' (41.5 and 43.0 m)		local hematite
150 - 166' (45.7 - 50.6 m)	Fault zone fault gouge and breccia 150 - 161' (45.7 - 49.1 m) - appears to be breccia and gouge of overlying unit 161 - 166' (49.1 - 50.6 m) - appears to be more felsic - grey colour and is quite pyritic locally		
166 - 193' (50.6 - 58.8 m)	Mafic dyke/sill massive, fine grained, dark green with a few calcite stringers		

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193 - 248' (58.8 - 75.6 m)	Mafic to intermediate crystal lithic tuff medium green colour commonly contains plagioclase crystals and is locally fairly quartz rich some fairly large mafic volcanic fragments contains a few clasts of pyritic alteration down to about 215' unit is more mafic towards 248" generally not well foliated, but some local shearing at ≈ 45° to the core		< 1% pyrite down to 215' (65.5 m) - in clasts and disseminated rare py below 215'
248 - 254' (75.6 - 77.4 m)	Mafic dyke		
254 - ≈ 258' (77.4 - 78.6 m)	As for 193 - 248'		
258 - 266' (78.6 - 81.1 m)	Mafic flow or dyke fine grained, medium to dark green with small calcite amygdules		
266 - 315' (81.1 - 96.0 m)	Mafic to intermediate tuff light green and grey foliated to layered at 55 - 65° to the core some more felsic looking zones, especially 298 - ≈ 310'	moderate to locally strong sericite - chlorite ± quartz alteration	minor pyrite disseminated throughout - locally 5 - 8% in “felsic” zones
315 - 591' (96.0 - 180.1 m)	Intermediate to mafic tuff (crystal-lithic) black to green - fairly abundant plagioclase crystals local quartz crystals matrix is mainly chloritic, lithic fragments are small and of mafic and felsic volcanic some fragments of pyritic alteration Formation? Closest reference sample is Buchans River Formation - also somewhat like Ski Hill Formation fragmentals locally unit is generally not foliated but is locally layered to foliated at 65 - 75° to the core	matrix is moderately to strongly chloritized local zones of quartz-sericite alteration, especially near top of unit some altered (sericite-quartz-pyrite) clasts often look like altered mafic	315 - ≈ 350' (96.0 - 106.7 m) 1-2% py 350 - ≈ 460' (106.7 - 140.2 m) to 1% py 460 - ≈ 471' (140.2 - 143.6 m) 2-5% py mostly in clasts with up to 50% very fine py 471 - 591' (143.6 - 180.1 m) to 1% py @ 488' (148.7 m) 1" “vein” with 30 - 40% sphalerite, galena chalcopyrite and pyrite with quartz some minor sp-ga within 6" of above vein
	591' (180.1 m) - E.O.H. -		