

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES <u>513945E, 5409280N</u>	Tests Depth <u>62M</u>	Dip <u>-69°</u>	Magnetic Bearing <u>189°</u>	Corrected Bearing <u>166°</u>	Project No. _____ Hole No. <u>BR-2K-05-07</u>
GRID CO-ORDINATES <u>L139+53E, 9333N</u>	_____	_____	_____	_____	Property <u>Buchans - Middle Branch East</u>
ELEVATION <u>276M</u>	_____	_____	_____	_____	NTS <u>12A15</u> Grid Name <u>Buchans East</u>
DIP AT COLLAR <u>-70°</u>	_____	_____	_____	_____	Date started <u>12/12/2000</u> Completed <u>13/12/2000</u>
BEARING <u>180°</u>	_____	_____	_____	_____	Contractor <u>Logan Drilling</u>
TOTAL DEPTH <u>65M</u> CORE SIZE <u>NQ</u>	_____	_____	_____	_____	_____
REMARKS _____	_____	_____	_____	_____	Logged by <u>J. Harris</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 3.2	Overburden		
3.2 - 14.3	Mafic fragmental - lapalli tuff - dark green to black, magnetic - foliated and layered? at 70-80° to the core - below 11m becomes bleached to lighter green - lapalli are darker than the matrix and elongate - occasional calcite amygdules - contact appears conformable	weak sericite alteration below 11m	minor py
14.3 - 15.2	Felsic tuff? - strong foliation - banding at 70-80° to the core - grey brown colour - some chloritic pumice - minor mafic fragments or zones <0.1m	strong quartz-sericite-chlorite "alteration"	10-15% pyrite 2-5% sp, ga and cp % increasing downward sulphides as thin conformable bands and "grains"
15.2 - 19.7	Mafic tuff - dark green, fine grained - may be mafic flow in part - a few quartz grains, also pyroxene crystals - moderate foliation, as above - local fragmental textures - 15.5 - 15.9 fine siliceous matrix - cherty sediment or silicification - narrow fault/shear at 19.6m	weak epidote and chlorite alteration	<15 py 15.5 - 15.9 2-3% very fine pyrite

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
19.7 - 23.4	Felsic tuff, altered - grey to brown - strong foliation and layering? at 80° to the core - some coarser fragmental zones with elongate, flattened fragments - a few chloritic mafic fragments or bands	strong quartz-sericite-chlorite and potassic alteration	8-10% pyrite less py with mafic bands
23.4 - 29.0	Interbanded mafic and felsic tuff - green and grey-brown - well foliated and layered at 70-80° to the core - mainly a fairly coarse lithic tuff, some rounding of fragments - mafic and felsic layers near the top and mixed mafic and felsic fragment near 29m - 23.4 - 26.3 fractured with white and pink calcite and some epidote infill - some cherty sediment or silicified fragments - conformable contact	moderate to strong sericite-chlorite-silica alteration felsic layers appear more altered, some altered and pyritic fragments	1-10% pyrite more pyrite in felsic layers some fragments with >10% very fine py
29.0 - 54.2	Intermediate tuff - mainly fine to medium grained lithic tuff with a few larger clasts - medium green colour - felsic, intermediate and mafic fragments in a fine grained chloritic matrix - often tightly packed lithic fragments - moderately magnetic - 30.6 - 30.8 some fault gouge and breccia - 39.2 - 40.0 fine grained black mafic dyke or fragment, strongly magnetic - common larger fragments of porphyritic rhyolite to dacite below 44m (may be silicified mafic)	some epidotized fragments some fragments may be silicified some epidote veining moderate silicification increasing downward from about 46.0m some cherty silica matrix	<1% pyrite 39.2 - 40.0 1-2% py as veinlets 3-5% pyrite below 46.0m mainly as fine pyrite in fragments
54.2 - 63.0	Felsic tuff - grey to brown - strong foliation and "layering" at 70-80° to the core - some larger porphyritic rhyolite-dacite fragments - most fragments flattened - small quartz grains locally in the matrix - 58.9 - 60.7 chloritic dacite tuff fragments - 60.6 - 61.6 fractured, calcite veined, along the core - minor faulting at 63.0	strong quartz-sericite-chlorite alteration	10-20% pyrite locally >20% rare cp and sp associated with fractures 58.9 - 60.7 2-5% py
63.0 - 65.0	Intermediate lithic tuff - similar to 29.0 - 44.0m	moderate alteration	1-3% pyrite, appears to be decreasing downward
65.0	End of hole		

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