

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES <u>515025E, 5410622N</u>	Tests Depth	Dip	Magnetic Bearing	Corrected Bearing	Project No. <u>B4273</u> Hole No. <u>BR-2K-05-03</u>
GRID CO-ORDINATES <u>L150E, 10625N</u>	<u>250m</u>	<u>-70°</u>	<u>205°</u>		Property <u>Buchans East</u>
ELEVATION <u>~260m</u>					NTS <u>12A/15</u> Grid Name <u>Buchans East</u>
DIP AT COLLAR <u>-70°</u>					Date started <u>24/05/2000</u> Completed <u>26/05/2000</u>
BEARING <u>180°</u>					Contractor <u>Lantech Drilling Services Ltd.</u>
TOTAL DEPTH <u>250.0m</u> CORE SIZE <u>NQ</u>					
REMARKS					Logged by <u>J. Harris</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 8.8	Overburden		
8.8 - 9.9	Rhyolite porphyry - pink to buff quartz porphyry, fairly large quartz - sheared and fractured - faulted contact at 9.9		
9.9 - 19.9	Mafic dyke or sill - fine grained black, wide chilled upper contact - rubbly core at lower contact, not well chilled - magnetic, minor calcite and epidote veining - fault gouge and breccia at 24.2 and from 24.1 - 24.3		
19.9 - 33.8	Rhyolite porphyry and fault gouge and breccia - pink porphyry similar to above, related to the prominent quartz unit - commonly fractured and brecciated - 33.0 - 33.8 all gouge and breccia		
33.8 - 37.3	Mafic dyke - green to black, fine grained, magnetic - chilled contact at 36.1 - 36.1 - 36.25 rhyolite, 36.25 - 37.3 non-magnetic mafic, may be an older dyke or flow		

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
37.3 - 84.0	Rhyolite and rhyolite porphyry (to rhyodacite) - similar to the top of 2K-05-02 - grey to brown, foliated at about 60-70° to the core - rhyolite porphyry, similar to overlying units, down to ~ 42.0m - 43.7 - 49.7 very rubbly core, with common fault gouge and breccia - below 49.7 the rhyolite gradually becomes darker coloured and only rarely foliated - small quartz and a few felspar phenos - small fault at 60.6m - 75.0 - 80.0m fractured and rubbly, some fault breccia	local minor quartz-calcite and epidote veining	rare pyrite with quartz-calcite veining
84.0 - 90.4	Felsic to intermediate volcanic - grey-green to pinkish - looks tuffaceous locally - likely in part a sheared equivalent to the overlying unit - a few more chloritic fragments or bands - local foliation at 65 - 75° to the core		rare pyrite
90.4 - 107.2	Fault zone - developed in felsic to intermediate rocks, as above - common gouge and breccia - local, pre-brittle faulting, foliation at ~60° to the core - granular look, like due to faulting	some minor core loss	
107.2 - 242.3	Rhyolite to dacite (Similar to above the faulting) - brown to grey, hard, locally magnetic - 107.2 - ~ 109.0 gradational from fault zone to more normal felsic - foliated to banded at 75-85° to the core - 116.0 - 118.0 highly fractured with local fault gouge - generally a fine grained massive rock with 3-4% chlorite and a few small quartz phenos. - darker coloured bands are magnetic - 155.7 - 157.4 pink rhyolite band - small fault breccia at 157.1 - 162.0 - 163.5 common fault breccia - 165.9 - 166.0 local vague fragmental textures, flow breccia or tuff? - 168.5 - 169.5 common fault breccia, also 174.5 - 175.5 - 181.5 - 181.9 fractured and rubbly with common fault breccia and/or gouge, also 194.0 - 197.0, 200.4 - 212.0 and 217.5 - 232.0 - 236.3 - 238.9 intermediate tuff? Elongate soft white crystals, altered plag? Fine grained	local zones of bleaching and weak alteration ie; 147.5 - 152.2 Local minor pink calcite and epidote veining 236.3 - 238.9 moderate sericite alteration, possible potassic alteration 238.9 - 242.2 moderate quartz-sericite alteration	108.5 - 110.0 ~ 1% pyrite disseminated along fractures and as stringers 110.0 - 147.5 minor py 147.5 - 181.5 1-2% pyrite, disseminated and as stringers local zones with 2-3% py 181.5 - 236.3 ~1% pyrite 236.3 - 240.0 2-3% pyrite, locally to 5% as discontinuous stringers and disseminations 236.7 - 237.2 <1% galena and minor cpy associated with pink calcite veinlets 240.0 - 242.2 <1% py

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
242.3 - 247.0	Rhyolite porphyry - grey to white - fairly large quartz phenos - sharp slightly irregular upper contact at $\approx 75^\circ$ to the core	weak to moderate quartz-sericite alteration	<1% pyrite, to 1% locally
247.0 - 250.0	Dacite to rhyodacite - brown to greenish, similar to units above, locally magnetic - fine grained, hard - 249.3 - 249.4 mafic band, thin flow?	local epidote alteration possible quartz-sericite alteration	about 1% pyrite
250.0	End of Hole		

HOLE NO. BR-2K-05-03

GEOLOGICAL CONSULTANTS LTD.
DIAMOND DRILL CORE ASSAYS

SHEET NO. 1 of 1

PROJECT NO. 4806

HOLE NO. BR-2K-05-03

PROPERTY Middle Branch

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