

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES <u>524282E</u> <u>5407655N</u>	Tests	Dip	Magnetic	Corrected	Project No. <u>G-4973m</u>	Hole No. <u>LS-2K-011</u>
GRID CO-ORDINATES <u>L244E</u> <u>7950N</u>	Depth		Bearing	Bearing	Property <u>Buchans Little Sandy</u>	
ELEVATION <u>250m</u>	<u>182m</u>	<u>-52°</u>	<u>324°</u>		NTS <u>12A/15</u>	Grid Name <u>Little Sandy</u>
DIP AT COLLAR <u>-50°</u>					Date started <u>19/0620/00</u>	Completed <u>06/2000</u>
BEARING <u>155°</u>					Contractor <u>Lantech Drilling Services Ltd.</u>	
TOTAL DEPTH <u>185m</u> CORE SIZE <u>NQ</u>					Logged by <u>J. Harris</u>	
REMARKS _____						

Depth & Lithology	Description	Alteration	Mineralization
0 - 7.0	Overburden		
7.0 - 7.6	Mafic volcanic (may be a boulder) - dark green - a few calcite amygdules	weak to moderate sericite alteration	
7.6 - 14.7	Felsic volcanic - buff to pale pink, rhyolite - could be altered mafic - 7.6 - 9.0 lithic tuff to breccia - 7.6 - 9.5 common fault gouge and breccia - 9.0 - 14.7 fairly massive, commonly brecciated by alteration (silicification) - faulted contact at 14.7m	moderate quartz-sericite alteration	~2% disseminated pyrite
14.7 - 18.2	Mafic volcanic - red, hematitized to 16.9m - gradational to light green - may be tuffaceous in part - small chlorite flecks common - fault contact at 18.2m - small pink feldspar phenos locally	weak to moderate sericitic alteration below 17m	rare py

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Depth & Lithology	Description	Alteration	Mineralization
18.2 - 39.3	Dacite to rhyolite - grey-green, fine grained - varies from soft to hard - a few small quartz phenos. local small plag. phenos - local flow breccia - occasional flow banding mainly at about 40° to the core - may be altered mafic locally - fault gouge and breccia 18.2 - 18.4	Weak to moderate sericite-quartz alteration	minor disseminated py
39.3 - 66.2	Pyroclastic breccia - grey to grey-green, mainly felsic but some altered mafic fragments - coarse, mainly angular fragments, similar to the overlying unit, may be some andesite fragments - large sericitic pumice fragments also a few chloritic - some possible flow breccia zones - flow banded fragments - matrix of smaller fragments and chlorite and/or sericite - 63.4 - 66.2 harder and more rhyolitic - 66.0 - 66.2 mainly prominent quartz rhyolite fragments	weak sericite-chlorite-quartz alteration moderate silicification 63.4 - 66.2	< 1% pyrite, disseminated and as rare pyrite clasts local zones with 23% py ie; 53.7 - 54.7 63.4 - 66.2 1-3% py local sp, ga and cpy about 1-2% base metal sulphides from 64.3 - 64.7
66.2 - 74.5	Prominent quartz rhyolite - brown, hard - fine groundmass with a few quartz phenos and small chlorite flecks - fragmental, flow breccia? at both contacts	occasional chlorite-sericite alteration	~1% disseminated py cubes local minor sp and cpy mainly along fractures locally disseminated in chloritic zones
74.5 - 75.9	Rhyolite altered - fairly soft, white - some flow breccia - small sericite phenos. - after feldspar - brecciated at 74.5, gradational contact at 75.9	moderate to strong clay-sericite alteration	
75.9 - 121.2	Dacite to rhyolite - flows, flow breccia and pyroclastic breccia - green to grey-green - common small plag. phenos, occasional quartz phenos. - 75.9 - 83.4 - massive flow - mainly fragmental below 83.4, tightly packed fragments - common large sericitic pumice fragments, a few small chloritic pumice fragments - occasional flow banded fragments	local weak quartz-sericite alteration below ~110m weak to moderate quartz-sericite alteration and chlorite along fractures	75.9 - 77.3 3-4% pyrite below 77.3 generally minor py but local zones with 1-2% ie; 91.0 - 91.4 (bleached and altered zones)

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
121.2 - 122.5	Mafic flow - andesite - green, calcite, chlorite and sulphide amygdules - fine grained, massive, local perlitic cracks - sharp contacts at 35-45° to the core	moderate to strong sericite-chlorite alteration	3-5% pyrite ∠ 1% sp, ga and cpy in amygdules
122.5 - 124.5	Rhyolite and rhyolite breccia - buff, massive - small chlorite flecks and chloritic matrix to fragmental zones	quartz stockwork veining moderate quartz-sericite-chlorite alteration	2-3% pyrite minor sp
124.5 - 125.6	Mafic flow, as for 121.2 - 122.5	Moderate to strong sericite-chlorite alteration	3-5% py, ∠ 1% sp, ga and cpy mainly in amygdules
125.6 - 131.4	Dacite, lapilli tuff to flow breccia - bleached grey-green to about 127.8m, green below 127.8m - abundant plag. phenos - mainly faint angular fragments in a similar matrix - similar to ore horizon dacite near old Buchans	moderate quartz-sericite alteration down to about 127.8m	125.6 - 127.8 1-3% py 127.8 - 131.4 no pyrite
131.4 - 132.9	Andesite - medium green, massive - small calcite and chlorite amygdules - irregular contact at 132.9	weak chloritic and sericitic alteration	minor fine pyrite at 132.9
132.9 - 172.2	Dacite to rhyolite lapilli tuff as for 125.6 - 131.4 - grey-green to brown, becoming lighter down hole - below ~138.0m lithic tuff to pyroclastic breccia and more rhyolitic - some flow banded fragments, local sericitic pumice - 159.5 - 164.5 coarse pyroclastic breccia, chloritic and sericitic pumice, mainly rhyolite fragments - 164.5 - 172.2 lithic tuff to breccia, hard rhyolitic matrix - sharp slightly irregular contact at 45-50° to the core at 172.2	weak to moderate quartz-sericite alteration	1-3% finely disseminated pyrite down to 145.6 Minor pyrite below 145.6,
172.2 - 185.0	Dacite to rhyolite - grey-brown, a few quartz phenos. throughout - small chlorite and sericite phenos (Look like shards locally) - massive flow, rare sericitic pumice fragment - varies from hard to soft - 178.5 - 179.0 fractured, minor fault gouge	moderate sericite-chlorite alteration	4-5% pyrite, disseminated and as thin veinlets
185.0	End of Hole		

HOLE NO. LS-2K-011

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PROJECT NO. G4973M

PROPERTY Buchans - Little Sandy

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