

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES <u>525483E, 5407427N</u>	Tests Depth	Dip	Magnetic Bearing	Corrected Bearing	Project No. <u>G-4973M</u> Hole No. <u>LS-2K-008</u>
GRID CO-ORDINATES <u>L254E, 7250N</u>					Property <u>Buchans - Little Sandy</u>
ELEVATION <u>255m</u>	<u>179</u>	<u>-49°</u>	<u>180°</u>		NTS <u>12A/15</u> Grid Name <u>Little Sandy</u>
DIP AT COLLAR <u>-50°</u>					Date started <u>11/06/2000</u> Completed <u>12/06/2000</u>
BEARING <u>155°</u>					Contractor <u>Lantech Drilling Services Ltd.</u>
TOTAL DEPTH <u>191m</u> CORE SIZE <u>NQ</u>					
REMARKS _____					Logged by <u>J. Harris</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 3.1	Overburden		
3.1 - 41.3	Mafic volcanic - dark green, some brown to pink fragments - commonly fragmental, lapilli tuff and breccia - some finer grained tuff beds - fragments with silica, calcite and occasional chlorite amygdules - 14.5 - 16.5 mainly fine tuffs, some intermediate tuff with quartz and felsic grains - 16.5 - 32.2 more massive, pillowed and pillow breccia, only calcite and epidote amygdules - 21.6 - 21.7 fault gouge and breccia, also 23.9 - 24.0 - 32.7 - 32.8 fault gouge and breccia, also 41.2 - 41.3 - 38.1 - 38.3 cherty sediment and fine tuff - some white quartz veining	- some bleached and weakly silicified fragments 17.5 - 32.0 common epidote alteration also local chloritic alteration 20.5 - 24.0 moderate chloritic alteration and some silicification 32.0 - 41.3 moderate to strong chlorite-quartz alteration	3.1 - 17.0 1-2% pyrite, disseminated and as occasional stringers 17.0 - 20.5 minor py 20.5 - ~ 24.0 3-5% py 23.4 - 26.4 local cpy < 1%, also some bornite 25.8 - 26.0 1-2% cpy and specular hematite 24.0 - 32.9 < 1% py 32.9 - 39.4 ~10% pyrite as semi-massive bands with chlorite, veinlets and disseminated 39.4 - 41.3 4-5% py
41.3 - 58.0	Felsic and mafic tuffs and cherty sediments - mainly grey and grey-green - commonly fine grained, some lithic tuff with small chips - mostly a fine silicic matrix but some chloritic matrix - some "felsic" zones could be silicified mafic - common fault gouge and breccia zones from 47.0 - 50.0m - mainly mafic tuff below 53.0m	moderate to strong quartz-chlorite alteration	41.3 - 58.0 3-5% py disseminated and as stringers - 5cm with 1% cpy at 57.0m

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
58.0 - 60.1	Mudstone - fine grained, black mudstone to siltstone - locally cherty - bedding at 85-90° to the core		∠1% py, minor cpy on fractures
60.1 - 103.3	Interbedded tuffs and sediments - fine grained green and grey tuffs - black, green and grey mudstone and chert - 60.1 - 62.0 grey to green felsic to intermediate tuff - fault gouge and breccia 63.9 - 64.0 - 64.3 - 71.0 mudstone and chert, minor mafic tuff - fault zones at 64.4 - 64.6 and 66.9 - 71.0 - 74.6 fine grained mafic tuff - 74.6 - 76.5 mudstone, mainly black - 76.5 - 81.8 mainly mafic tuff, minor chert - 81.8 - 82.0 shearing and fault breccia - 82.0 - 92.9 grey green intermediate tuff, some felsic tuff bands - 92.9 - 100.5 mainly mudstone and chert, black and pale green, locally carbonaceous - 100.5 - 103.3 mainly mafic tuff - fault gouge and breccia 95.2 - 95.3 and 97.8 - 98.0 - strong shearing at 50-60° to the core and local brittle faulting from 102.0 - 103.3m	minor lost core between 95.0 and 101.0m ~0.5 - 0.6m	60.1 - 63.5 1-2% pyrite 63.5 - 82.0 generally ∠1% pyrite and minor cpy locally 69.9 - 70.0 4-5% py and ∠1% cpy minor cpy on fractures 74.6 - 76.5 80.4 - 80.8 ~10% pyrite as bands and veins 81.8 - 82.0 20% pyrite some pieces of massive py ground 82.0 - 92.9 1-2% disseminated py, rare cpy 92.9 - 100.5 ∠1%py rare cpy 100.5 - 103.3 ~1% py
103.3 - 108.6	Mafic volcanic - dark green, calcite amygdules - weak shearing, dies out downward	weakly hematitized locally, patchy epidote alteration	minor pyrite, except 2-3% from 106.0 - 106.4, with chlorite
108.6 - 112.8	Intermediate tuff - grey-green - small angular lithic chips in a fine grained siliceous matrix - mafic, felsic and chert chips - the matrix may be in part cherty sediment	some silicification of the matrix	1-3% pyrite, mainly as disseminated blobs 112.4 - 112.8 ~20% pyrite with quartz vein breccia (quartz brecciated by later quartz)
112.8 - 122.4	Dacite - grey-green, hard - massive with a few small quartz and feldspar phenos - locally fragmental - some more mafic zones, also intermediate tuff beds - 117.0 - 118.7 mainly intermediate tuff as above - 116.6 - 116.8 sheared at 70-80° to the core - 115.4 - 116.2 fine grained mafic, may be a dyke - sheared contact at 122.4	local chloritic alteration	~1% pyrite as disseminated blebs, often with chlorite 116.6 - 116.9 10-15% py 119.2 - 119.3 50% py as a semi-massive band

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
122.4 - 146.0	Mafic sill or flow - fine grained massive - may be chilled at 146.0 - 133.6 - 134.8 felsic inclusion, rhyolite, flow banding at 45° to the core near 134.8	epidote alteration	minor pyrite
146.0 - 152.0	Mafic fragmental - dark green, chloritic matrix - some rhyolite fragments or zones, also small silicone chips - rhyolitic or chert - 147.8 - 148.4 fine grained mafic similar to overlying unit - 149.0 - 151.2 sheared at 75-85° to the core - common irregular calcite veining	local epidote alteration	<1% pyrite minor cpy, ie; at 151.6
152.0 - 155.8	Mafic flow or sill - dark green, chloritic - fine grained, chlorite in a pinkish sericitic and "felsic"? matrix	weak to moderate sericite-chlorite alteration	Minor pyrite
155.8 - 164.9	Felsic volcanic - grey-green dacite to rhyolite and lithic tuff to breccia - fragmental zones have grey to pink felsic fragments in a chloritic matrix - 155.8 - 158.0 lithic tuff - 158.0 - 159.3 fine grained mafic sill or flow - 159.3 - 160.6 lithic tuff - 160.6 - 164.9 mainly dacite to rhyolite	weak quartz-chlorite alteration	minor pyrite
164.9 - 167.6	Mafic flow or sill - as for 152.0 - 155.8		
167.6 - 169.5	Dacite to rhyolite - grey-green, hard, glassy - 169.0 - 169.5 more chloritic with 10-15cm of intermediate tuff at 169.5		
169.5 - 172.1	Rhyolite and rhyolite breccia - brown to pink, fragments commonly have bleached pink edges - locally variolitic - flow banding at 60° to the core at 172m		

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Sheet No. 4

Depth & Lithology	Description	Alteration	Mineralization
172.1 - 178.1	Dacite to rhyolite - light green, hard and glassy - occasional small feldspar phenos - cut by a network of hairline fractures		minor pyrite rare bornite with thin quartz veinlets
178.1 - 188.1	Rhyolite and rhyolite breccia - as for 169.5 - 172.1 - some green more mafic zones - gradational contact at 188.1		
188.1 - 191.0	Mafic to intermediate flow - green, local pink zones or fragments, (may be alteration) - fine grained, massive - occasional zone with small pink felsic fragments		minor pyrite
191.0	End of Hole		

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GEOLOGICAL CONSULTANTS LTD.
DIAMOND DRILL CORE ASSAYS

SHEET NO. 1 of 1

PROJECT NO. G4973M

HOLE NO. LS-2K-008

PROPERTY Buchans - Little Sandy

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