

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES <u>523942E, 5406955N</u>	Tests Depth	Dip	Magnetic Bearing	Corrected Bearing	Project No. <u>G4973M</u> Hole No. <u>LS-2K-010</u>
GRID CO-ORDINATES <u>L238E, 7450</u>	<u>198M</u>	<u>-50°</u>	<u>360°</u>	<u>337°</u>	Property <u>Buchans - Little Sandy</u>
ELEVATION <u>245m</u>					NTS <u>12A/15</u> Grid Name <u>Little Sandy</u>
DIP AT COLLAR <u>-50°</u>					Date started <u>15/06/2000</u> Completed <u>18/06/2000</u>
BEARING <u>335°</u>					Contractor <u>Lantech Drilling Services</u>
TOTAL DEPTH <u>200m</u> CORE SIZE <u>NQ</u>					
REMARKS _____					Logged by <u>J. Harris</u>

Depth & Lithology	Description	Alteration	Mineralization
0 - 9.8	Overburden		
9.8 - 38.1	Altered felsic volcanic - grey - mainly a fairly massive "feldspar" porphyry with zones of fairly coarse lithic tuff - some resemblance to the prominent quartz unit without the quartz phenos - fragmental zones contain fragments of the porphyry, white rhyolite and smaller chlorite and quartz grains - fragmental zones from 12.1 - 12.25, 13.8 - 14.2, 14.9 - 15.4, 26.4 - 27.6, and 31.3 - 31.6 - small fault gouge zones at 25.8 and 31.8 - 32.0m	strong sericite-chlorite±quartz alteration feldspar altered to waxy sericite, flecks of light coloured chlorite bands/veins of black chlorite	2-10% pyrite, disseminated, as semi-massive veins with chlorite and as matrix grains and small clasts in fragmental zones
38.1 - 44.4	Intermediate tuff - fine grained grey and green, altered rock - may include some cherty sediment or rhyolite - local layering at 30-50° to the core	strong chlorite-sericite-"quartz"? alteration	5-10% pyrite as 5-10cm <u>conformable bands</u> , veinlets and disseminations
44.4 - 87.7	Pyroclastic breccia - mainly white to buff rhyolitic fragments in a chloritic and/or sericitic matrix - may be flow breccia in part - some large quartz grains in the matrix near 44.4m - altered feldspar phenos in some rhyolite clasts - small quartz phenos in clasts below ~57m - 54.6 - 55.3 rhyolite sill or dyke, tan coloured, small quartz and feldspar phenos, somewhat altered, chilled contacts - fault gouge and breccia 54.7 - 54.8 and 63.4 - 64.1	moderate to strong chlorite-sericite-quartz alteration 62.1 - 63.1 calcite veining along the core	2-3% pyrite with local zones of 5-10% mainly disseminated in the matrix some semi massive bands 62.1 - 63.1 minor cpy with calcite

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
87.7 - 111.1	Rhyolite and rhyolite breccia - light grey to white - small altered feldspar phenos - resembles Buchans ore horizon rhyolite - 87.7 - ~94m mainly flow breccia, small angular fragments in a rhyolite matrix - local flow banding at 35° to the core at 91.6 - thin sheared contact at 111.1 at 80-90° to the core	Moderate to strong quartz-sericite alteration, local chlorite veining to fracture fill	2-3% pyrite, disseminated and as stringers with chlorite 101.4 - 101.8 minor sphalerite along fractures also minor disseminated sp below 101.8
111.1 - 142.3	Rhyolite (PQ unit) - light grey, small altered feldspar and quartz phenos, also small chlorite flecks. - prominent quartz phenos below 117.5m - thin fault gouge at 117.5 - sharp slightly irregular contact at 20-30° to the core at 142.3	moderate quartz-sericite-chlorite alteration local chloritic veining to fracture fill (At 109.3 small amount of rubble including some overburden, bit change, casing not in bedrock)	1-3% pyrite, as above
142.3 - 163.6	Rhyolite - light grey, small quartz and altered feldspar phenos - a few small chloritic flecks - may be a finer grained phase of the PQ rhyolite - fault breccia and gouge 155.0 - 155.4 and 162.4 - 163.6 - 146.7 - 147.1 small breccia zones, "hydrothermal"?	moderate quartz-sericite alteration local black chlorite blebs and fracture linings especially near 142.3	142.3 - 147.1 3-5% py, disseminated and as semi-massive veins/bands with chlorite 147.1 - 163.6 1-2% py
163.6 - 192.8	Prominent quartz rhyolite - grey to tan coloured - large quartz and feldspar phenos - small black chlorite flecks throughout - thin fault gouge at 177.0m - 185.8 - 191.0 "shattered" with hairline fractures, local small slightly irregular contact at 80-90° to the core at 192.8m	weak to moderate quartz-sericite ± chlorite alteration	2-3% pyrite disseminated and along fractures 192.1 - 192.15 massive py band at 60-65° to the core
192.8 - 200.0	Rhyolite and rhyolite breccia - light grey and grey green - small quartz and feldspar phenos - local tightly packed fragmental zones. - also fractured to brecciated, fault breccia and gouge from 197.9 - 199.0m - 193.7 - 194.5 finer grained lithic tuff	weak to moderate quartz-sericite alteration	2-3% disseminated py
200.0	End of Hole		

HOLE NO. LS-2K-010

DIAMOND DRILL CORE ASSAYS

SHEET NO. 1 of 1

PROJECT NO. G4973M

HOLE NO. LS-2K-010

PROPERTY Buchans - Little Sandy

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