

GEOLOGICAL CONSULTANTS LTD

Sheet No. 1

DIAMOND DRILL CORE LOG

UTM CO-ORDINATES <u>522204E 5405933N</u>	Tests	Dip	Magnetic	Corrected	Project No. <u>Vol 1, Fol 62</u>	Hole No. <u>LS-2K-005</u>
GRID CO-ORDINATES <u>L222+00E 59+00N</u>	Depth		Bearing	Bearing	Property <u>Buchans - Little Sandy</u>	
ELEVATION <u>~187m</u>	<u>199m</u>	<u>-50°</u>	<u>212°</u>		NTS <u>12A/15</u>	Grid Name <u>Buchans Highway</u>
DIP AT COLLAR <u>-50°</u>					Date started <u>04/06/2000</u>	Completed <u>06/06/2000</u>
BEARING <u>180°</u>					Contractor <u>Lantech Drilling Services</u>	
TOTAL DEPTH <u>251.0m</u> CORE SIZE <u>NQ</u>						
REMARKS _____					Logged by <u>J. Harris</u>	

Depth & Lithology	Description	Alteration	Mineralization
0 - 12.5	Overburden		
12.5 - 15.8	Dacite - grey-green, hard, fine grained and massive - chlorite amygdules and flecks - could be silicified andesite - lower contact weakly sheared at about 55° to the core	moderate chloritic alteration silicified?	1-2% pyrite, mainly associated with chlorite
15.8 - 30.7	Rhyolite to dacite - grey, buff and pink - very likely a bleached and altered version of the overlying unit - About 3-4% small chlorite flecks, often rounded - 27.0 - 29.7 salmon pink colour - small faults at 1.9 and 23.6m	moderate quartz? - chlorite alteration some chlorite fracture fill to veining	~ 1% disseminated pyrite
30.7 - 42.4	Mafic flow or sill, andesite - dark green to black, a few small bleached zones - locally magnetic - a few chlorite-pyrite amygdules - fault gouge at 41.4	moderate to strong chloritic alteration (variable) local bleached, sericitic zones	2-3% pyrite and locally 5-8% especially in bleached zones 32.6 - 32.7 ~ 50% Py and 50% chlorite 38.8 - 38.9 about 1% sp and ga with quartz and pyrite veining 39.9 - 40.6 about 10% pyrite, mainly disseminated

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Depth & Lithology	Description	Alteration	Mineralization
42.4 - 67.4	Rhyolite to dacite, (similar to units above) - grey, pink and locally green - mostly hard, massive rock - 42.4 - 51.6 mainly grey and pinkish rhyolite - 51.6 - 57.2 grey-green, dacitic - 57.2 - 59.4 mainly black, glassy rhyolite - some shearing at 60 - 70° to the core at 57.2 and at 59.4m - 59.4 - 60.5 prominent quartz rhyolite - 60.5 - 62.8 grey and green rhyolite to dacite - 62.8 - 63.6 prominent quartz rhyolite - sharp, irregular, unchilled contact at 62.6 - 63.6 - 67.4 grey green rhyolite to dacite, common fractured brecciated appearance - 65.8 - 65.9 sheared at 50 - 60° to the core - lower contact sheared at 65 - 75° to the core		42.4 - 51.6 $\angle$ 1% py 51.6 - 57.2 ~ 1% py 57.2 - 59.4 $\angle$ 1% Pyrite 59.4 - 62.8 1-3% pyrite, disseminated and as small veins 62.8 - 67.4 ~ 1% Py 65.8 - 65.9 10 - 15% py
67.4 - 68.2	Mafic dyke or sill - fine grained, green, magnetic - some plag. phenos		67.4 - 68.2 2-3% py
68.2 - 69.8	Rhyolite to dacite fragmental - flow breccia - green and pink, some flow banded fragments - fragments with plag phenos - sharp contact at 68.8 at 40-45° to the core	moderate quartz-sericite-chlorite alteration	1-2% pyrite disseminated and as veinlets
69.8 - 74.6	Dacite - green and grey-green - chlorite amygdules and flecks - contact somewhat gradational - may be alteration	moderate alteration	1-3% pyrite, locally to 5%
74.6 - 89.0	Rhyolite and dacite - pink and grey green - hard pink rhyolite to 80m, then mainly grey green dacite - chlorite blotches, some quartz and plag. phenos - common brittle fracturing - 81.7 - 82.3 soft chloritic mafic zone		generally $\angle$ 1% pyrite 81.7 - 82.3 3-4% pyrite.

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Depth & Lithology	Description	Alteration	Mineralization
89.0 - 92.2	Mafic sill or flow - dark green, soft and chloritic - fractured and broken - 89.0 - ~90.0 grey green with abundant pink "feldspar"? phenos, soft altered		
92.2 - 105.6	Felsic volcanic, (fault zone) - grey and pink rhyolite to dacite - 98.2 - 98.8 mainly prominent quartz rhyolite - fractured and faulted, giving the rock a granular look - fault gouge and breccia from 95.0 - 95.5 and at 105.6		1-3% disseminated pyrite minor sp, ga and cpy down to ~96.0m
105.6 - 109.2	Mafic to intermediate dyke and fault gouge - greenish brown dyke, chilled at 109.2 - 105.6 - 106.0 chloritic fault gouge and breccia, also 107.0 - 107.3, in a felsic inclusion		
109.2 - 144.7	Mafic volcanic - medium to dark green basalt - fault breccia zones and shearing down to 111.4 - shearing at around 80-90° to the core - thin gouge at 115.0m - pink carbonate void fill, dolomite? - 122.0 - 127.5 local bleaching and local fault gouge zones - below 120m local white clay and/or calcite fracture fill - ~135.1 - 144.7 mainly tightly packed mafic fragmental, some felsic fragments - 143.0 - 143.1 altered and pyritic felsic fragment	locally bleached to pink down to 111.4 111.4 - 115.0 strong sericite-chlorite-pyrite alteration 115.0 - 135.1 carbonate alteration 135.1 - 144.7 moderate sericite-chlorite alteration	109.2 - 111.4 ~1% pyrite 111.4 - 115.0 >20% finely disseminated pyrite, minor cpy 115.0 - 118.0 ~2% pyrite as coarse blebs 118.0 - 135.1 ~1% py rare cpy with calcite stringers 135.1 - 144.7 2-3% pyrite
144.7 - 224.0	Altered felsic volcanic - grey to white, some fragmental zones - 145.5 - 147.0 prominent quartz rhyolite, less intense alteration, sharp contacts - 144.7 - 145.5 and 147.0 - 154.1 pyroclastic breccia, faint fragments, sericitic and chloritic pumice - 154.1 - 157.7 dacite to rhyolite, flecked with chlorite - thin fault gouge at 156.1 - pyroclastic breccia 157.7 - 160.5 - 160.5 - 162.4 prominent quartz rhyolite, chloritic mafic fragments - below 171.5 strongly altered, some fragmental textures evident locally - local small fault gouge zones between 179.5 and 183.0m, also between 193.0 and 200.5 - 219.0 - 224.0 chloritic fragments, and pumice, some included altered mafic	strong quartz-sericitic ±chlorite alteration 188.7 - 205.0 very strong quartz-sericite alteration, vuggy	144.7 - 157.7 2-4% disseminated pyrite some finely disseminated grey-brown sphalerite? throughout 157.7 - ~188.0m ≥5% pyrite 188.0 - 214.0 8-10% pyrite, locally more some semi-massive bands/veins, mostly 2-3cm 212.9 - 213.2 40% py 214.0 - 224.0 2-5% py

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Depth & Lithology	Description	Alteration	Mineralization
224.0 - 229.2	Intermediate tuff - grey-green - altered mafic fragments, chloritic pumice and grey silicic fragments - 225.0 - 227.0 mainly altered mafic fragmental, pillow breccia?	Strong quartz-chlorite-sericite alteration	5-6% pyrite
229.2 - 251.0	Altered mafic volcanic - light and dark green - locally fragmental, some thin tuff beds as for the overlying unit - local pyrite or calcite amygdules - some bleached-silicified fragments - zones	strong chlorite-sericite-quartz alteration moderate alteration below ~242.0m	5-6% pyrite as disseminated blobs, amygdules and stringers local disseminated cpy, <1%, especially from ~235 - 239 occasional sp and ga - rare from 239.3 - 239.95 - a 4cm thick carbonate sulphide vein at 15° to the core with 1-2% sp and ga 2-3% pyrite below 243.0m
251.0	End of hole		

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PROPERTY Little Sandy

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