

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES 518039E, 5406877N
 GRID CO-ORDINATES L180E, 6800N
 ELEVATION 260M
 DIP AT COLLAR -50°
 BEARING 180°
 TOTAL DEPTH 196M CORE SIZE NO
 REMARKS _____

Tests Depth	Dip	Magnetic Bearing Acid	Corrected Bearing
196M	43°		

Project No. _____ Hole No. Br-2K-08-04
 Property Buchans Tower Zone
 NTS 12A/15 Grid Name Buchans East
 Date started 25/11/2000 Completed 29/11/2000
 Contractor Logan Drilling

 Logged by J. Harris

Depth & Lithology	Description	Alteration	Mineralization
0 - 5.04.8	Overburden		
5.0 - 67.6	Mafic volcanic, andesite - flow or sill, medium green, massive - small calcite amygdules, some plag. phenos - small chlorite flecks and amygdules - rubbly with soil and hematitic fractures to 14m, some fault gouge between 13 and 14m - may be dacite locally below 31 and to ~41m but appears to be silicification - some fault at 62.5m - broken core at the lower contact	weak sericite-chlorite alteration local silicification local black chlorite stringers/fractures coatings below ~60m zones of bleaching with moderate silicification	~1% pyrite, disseminated and as thin stringers, locally to 2% local cp associated with calcite-quartz veins and clots, i.e. 18.6 and 22.6 25.4 - 26.0 quartz st. work veining with 2-3% py and 1% cp 62.4 - 62.5 ~5% py and 1-2% cp with qtz-calcite stockwork veining 1-2% fine pyrite occasional cp with qtz veining
67.6 - 69.1	Mafic dyke - dark green, fine grained, magnetic - gradational contact at 69.1		1-2% disseminated cp from 67.6 - ~67.7
69.1 - 72.5	Quartz - Feldspar porphyry dyke - prominent quartz phenos, epidotized feldspars - intermediate composition, but more felsic centrally - mafic "dyke" clasts or zones - sharp contact at 45° to the core at 72.5		

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Depth & Lithology	Description	Alteration	Mineralization
72.5 - 74.6	Mafic dyke - dark green, fine grained, magnetic		≈ 1% disseminated py and cp from 74.4 - 74.6
74.6 - 90.2	Mafic volcanic (similar to 5.0 - 67.6) - andesite, close to a felsic look locally, likely due to alteration - medium green to grey-green, massive - silica and/or calcite and chlorite amygdules - 74.6 - 79.5 elongate silica amygdules, (similar to Ski Hill types) amygdules aligned to 15 - 20° to the core - 81.1 - 81.2 fault gouge and breccia, also 86.1 - 86.2m - 87 - 90.2 dacitic, may be silicified - mafic dyke at 88.8 - 89.1	weak to locally moderate quartz-chlorite-sericite alteration - some chlorite "veining" near 90.2	About 1% disseminated and stringer pyrite 74.9 - 75.0 8-10% py with chlorite
90.2 - 92.2	Mafic dyke - dark green to black - some pink feldspars - contacts at about 46° to the core		
92.2 - 114.3	Mafic fragmental, hyaloclastite - dark green, grey-green and black - mainly angular fragments in a lighter siliceous matrix - some grey "felsic" fragments - occasional quartz amygdules - more massive below 108.5	moderate quartz-chlorite alteration, local strong chlorite alteration	1-2% pyrite mainly as concentrations with chlorite or quartz 101.0 - 102.3 5-6% py 105.4 - 105.8 2-3% pyrite and 1-2% cp with chlorite
114.3 - 125.5	Intermediate dyke - green to pink, fine to medium grained, magnetic - upper contact chilled, and darker coloured, at 35-40° to the core - lower contact irregular and chloritized	epidote alteration	
125.5 - 148.1	Mafic volcanic - dark grey, locally bleached to grey-green - generally massive but some fragmental zones - a few silicic more felsic zones or fragments, (may be alteration) - 132.9 - 135.9 massive flow with small chlorite amygdules, some quartz "phenos", dacitic - 135.9 - 145.5 chloritized fragmental - small fault at 143.9 - 145.5 - 148.3 pillowed to pillow breccia, chloritized rims - gradational contact	weak to moderate chloritic alteration, local silicification	1-2% disseminated pyrite, locally 2-3% local cp sulphides often with chlorite or quartz

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
148.1 - 161.1	Dacitic fragmental - similar to above, but more felsic, may be in part silicified mafic, some more mafic zones - grey-green, generally hard - some finer grained felsic tuff zones or matrix - small quartz grains and amygdulites - some fault gouge at 152.7, also gouge zones from 155.3 - 155.8 - local grey to white silicified matrix - some chloritic pumice - fault gouge at 159.1 - gradational contact	weak to moderate quartz-chlorite alteration	148.1 - 161.1 $\angle$ 1% pyrite
161.1 - 172.3	Felsic tuff with zones of cherty sediment - light green to grey-green - chloritic pumice and small dacitic fragments as above in a matrix of fine sediment or medium grained tuff - 165.7 - 166.0 intermediate dyke with pink feldspars - weak shearing 165.7 - 165.8 - local crude layering at 45-70° to the core - 167.9 - 168.9 ~50% black siltstone - mostly siltstone to chert below 167.9 - fault gouge and breccia 170.1 - 170.2 and 169.8 - 169.9 - sharp contact with a thin fault gouge at 172.3	weak to moderate chloritic and silicic alteration	~1% fine pyrite
172.3 - 185.8	Dacite tuff - grey-green, medium to coarse grained crystal-lithic tuff, very siliceous - common coarse quartz crystals, some plag crystals - chloritic pumice/shards - green felsic and/or cherty lithics	chloritic	1-2% disseminated pyrite, commonly concentrated in more chloritic zones
185.8 - 188.1	Mafic dyke - fine grained, black, magnetic - contacts at $\approx$ 90° to the core		
188.1 - 196.0	Dacite tuff, as for 172.3 - 185.8 196.0 End of hole		~1% pyrite

HOLE NO. BR-2K-08-04

PROJECT NO. B4603

PROPERTY Tower Zone

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