

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES 0518407E 5406853N
 GRID CO-ORDINATES L184E, 6800N
 ELEVATION ~280m
 DIP AT COLLAR -51°
 BEARING 180°
 TOTAL DEPTH 164.0 CORE SIZE NQ
 REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
164m	-50°	270°	

Project No. B4973m Hole No. BR-2K-08-03
 Property Buchans - Tower Zone
 NTS 12A/15 Grid Name Buchans East
 Date started 02/06/2000 Completed 03/06/2000
 Contractor Lantech Drilling Services Ltd.
 Logged by J. Harris

Depth & Lithology	Description	Alteration	Mineralization
0 - 4.8	Overburden		
4.8 - 7.5	Intermediate flow breccia - green and pink, silicic matrix - a few plag and quartz "phenos" evident - could be altered mafic	silicified	1-2% disseminated pyrite
7.5 - 15.2	Prominent quartz rhyolite sill or dyke - brown with large quartz and pink feldspar phenos - chilled margins approximately 1m wide - chilled areas are weakly magnetic		
15.2 - 18.3	Mafic flow and hyaloclastie (Similar to units in 08-02) - dark green, silica and a few small chlorite amygdules - resembles Ski Hill Fm. units - massive to 17.0m	silicified, especially below 17.0m	15-2 - 17.0 <1% py rare cpy 17.0 - 18.3 1-2% py
18.3 - 32.4	Prominent quartz rhyolite sill or dyke - well chilled contact, grading in to quartz-feldspar porphyry over ~1m - brick red to brown - about 0.7m chilled lower contact		

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
32.4 - 43.6	Dacite to andesite flow breccia - green to grey-green, hard - common elongate and irregular silica amygdulæ - silicified matrix - plag phenos in some fragments - gradational contact	silicified with local chloritic and sericitic alteration	1-3% disseminated pyrite, especially in more chloritic zones
43.6 - 65.6	Dacite flow, similar to above unit - grey green, silica and chlorite amygdulæ - occasional flow breccia - small fault at 57.5m - fine grained, massive - broken core at 65.6, but appears conformable	silicified with local chloritic alteration	about 1% pyrite, disseminate and as thin stringers 43.8 - 45.0 6-8% fine pyrite occasional bleb of cpy ie; at 57.1m
65.6 - 76.5	Sediments and dacite tuff - grey and brown - black fragments and bands of coarse quartz dacite tuff, (4cq) float in fine cherty sediment - alignment of fragments suggest layering at about 30° to the core at 66m - dacitic tuff is the same as "4cq" units west of Buchans - sediment is mainly very fine grained and cherty, some resemblance to pyritic siltstone of the Buchans "ore" horizon - conformable, somewhat gradational contact	moderate chloritic and sericitic alteration of tuff	pyrite varies from 2% to >10% as disseminated grains and very finely disseminated in cherty sediments
76.5 - 95.1	Mafic lapilli tuff, andesite - wispy green mafic fragments floating in a fine cherty matrix - the matrix is the same as for the overlying unit, especially at the top - a few dacitic tuff fragments and bands, ie; 81.7 - 81.9, layered at 45-50° to the core - mafic fragments become more tightly packed downwards and resemble units in 2K-08-02 - some fragments with altered plag phenos	fragments are altered to chlorite and sericite (moderate) silicified matrix? local black chloritic stockwork	2-3% pyrite, locally 5-8% Minor reddish sphalerite on fractures
95.1 - 98.1	Felsic tuff - grey to brown, mainly fine grained felsic tuff - some fine, pyritic sediment matrix and beds - bedding contact at 95.5 at 30-35° to the core - chloritic shards/pumice throughout - some coarse quartz grains	moderate quartz-sericite-chlorite alteration some chlorite-pyrite stockwork	5-10% pyrite, mainly disseminated, some brown cherty sediment zones with >10% very fine pyrite ie; 95.1 - 95.5 local disseminated sp and minor cpy, especially 95.1 - 95.8m

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
98.1 - 105.2	Mafic fragmental - lapalli tuff to breccia - green to black andesitic fragments in a fine cherty matrix - about 5% white quartz stockwork veining	moderate to strong black chloritic alteration Qtz. stockwork veining silicified? matrix	2-3% pyrite local cpy with quartz veining and with chlorite
105.2 - 106.4	Felsic tuff (4cq) - light grey-green felsic tuff, as above - poorly defined layering at 30-40° to the core	moderate alteration	2-3% pyrite, some as fine pyritic fragments
106.4 - 119.5	Cherty sediments - light green with some dark green and brown beds - mostly, thinly bedded at ~10° to the core - below ~118m bedding is at 35-45° to the core - a few dacite tuff fragments, near 106.4 - fractured with minor fault breccia 118.5 - 119.5		generally around 2% pyrite and minor chalcopyrite along fractures and thin veinlets some brown beds have >2% fine pyrite (locally from 106.4 - 109.5 and 117.3 - 117.8)
119.5 - 155.8	Andesite to dacite flow - 119.5 - ~123.5 is mainly buff and hard and looks felsic (dacite) grades down in to a softer green rock - fine grained, massive, chlorite and a few quartz amygdulites - some buff coloured bleached zones again, between 152.0 and 155.8 - fault gouge at 155.8 to 155.9	119.5 - 123.5 bleached and silicified 123.5 - 155.8 moderate chloritic alteration black chlorite flecks and blotches	~2-3% pyrite locally to 5% <1% cpy as disseminated flecks and blobs often with chlorite or quartz
155.8 - 164.0	Andesite to dacite lapalli tuff to breccia - grey-green, some light brown "felsic" fragments - silicic matrix - a few silica amygdulites, some fragments with plag phenos - fractured core to 158m	Strong silicification some chlorite-sericite alteration	2-5% pyrite with zones of up to 10% fine pyrite
	164.0 end of hole		

HOLE NO. BR-2K-08-03

PROJECT NO. B4973M

HOLE NO. BR-2K-08-03

PROPERTY Tower Zone

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