

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES 518310E, 5406455N
 GRID CO-ORDINATES L183E, 6400N
 ELEVATION ~245M
 DIP AT COLLAR -50°
 BEARING 180°
 TOTAL DEPTH 188M CORE SIZE NQ
 REMARKS _____

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
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_____	_____	_____	_____

Project No. _____ Hole No. BR-2K-08-05
 Property Buchans East - tower Zone
 NTS 12A/15 Grid Name _____
 Date started 30/11/2000 Completed 03/12/00
 Contractor Logan Drilling

 Logged by J. Harris

Depth & Lithology	Description	Alteration	Mineralization
0 - 5	Overburden		~1% pyrite, disseminated and along fractures locally 2%
5.0 - 8.6	Rhyolite - dark grey and buff - small quartz and a few feldspar phenos - also flecks of chlorite		
8.6 - 13.6	Mafic fragmental - dark green to black - some felsic fragments and zones - tuffaceous or siliceous matrix - rubble core at 13.6, fault gouge at 10.4m	silicified, weak chloritic and locally sericitic alteration	1-2% pyrite, finely disseminated, locally to 5% minor cp, ie; at 13.2m
13.6 - 16.0	Felsic tuff - light grey to buff, pumiceous tuff - rhyolitic, some lithic fragments		minor pyrite
16.0 - 18.9	Mafic dyke - black, fine grained, magnetic - chilled contacts at ~50°		

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Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
18.9 - 31.8	Felsic fragmental - coarse lithic tuff to breccia - angular to subrounded rhyolite fragments - some smaller mafic fragments - intermediate to felsic tuffaceous matrix - 20.5 - 21.5 rubble with some fault gouge and breccia - fault gouge at 30.2m - irregular contact at 31.8	Moderate chloritic and sericitic alteration	1-5% pyrite finely disseminated along fragment margins and in the matrix, also within fragments locally
31.8 - 33.8	Mafic volcanic - grey-green, fine grained - a few calcite amygdulites - may be pillowed - lower contact at about 40° to the core	moderate sericitic and chloritic alteration	>10% pyrite and < 1% ga and cp finely disseminated along network alteration and locally with calcite, also some barite
33.8 - 36.3	Rhyolite - pink to buff, massive, small quartz phenos - fragmental, rhyolite breccia ~35.0 - 36.3 - faulting at 36.3	weak chloritic and silicic	minor py except 1-2% from 36.0 - 36.3 Minor ga and cp with thin calcite veinlets near 33.8
36.3 - 42.1	Felsic lithic tuff to breccia - green to grey-green, pumiceous - coarse rhyolitic fragments in an intermediate tuff matrix - local flow banding at various angles - fault at 38.7	moderate chloritic and silicic alteration	1-2% py
42.1 - 46.4	Rhyolite and rhyolite breccia - brown to pink - a few small quartz and plag phenos - similar to Buchans River Fm rhyolite - rubble core with some faulting down to 44.0m	some network silica pyrite alteration "brecciating" the rhyolite	3-5% pyrite often as very fine pyrite in network alteration
46.4 - 50.6	Mafic dyke - black, fine grained, magnetic - chilled contacts at ~70° to the core		to 1% disseminated py
50.6 - 54.2	Rhyolite and rhyolite breccia - similar to 42.1 - 46.4 - fault gouge and breccia 50.6 - 50.8, 51.3 - 51.4 and 53.9 - 54.2	as for 42.1 - 46.4	50.6 - 53.0 3-5% pyrite, very finely disseminated and as coarser stringers 53.0 - 54.2 >20% pyrite, as above

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Sheet No. 3

Depth & Lithology	Description	Alteration	Mineralization
54.2 - 60.7	Felsic to intermediate tuff to breccia - green to grey-green - similar to 36.2 - 42.1 - grey, white and pink rhyolite fragments in a chloritic dacitic tuff matrix - some pink feldspar crystals in the matrix - 56.5 - 60.7 rubbly core with fault gouge and breccia at 56.5 and 60.7	moderate chloritic alteration weak silicic and sericitic alteration	1-2% py disseminated and along fractures
60.7 - 64.9	Rhyolite - brown to pink - small quartz and feldspar phenos - flow banding at 60-70° to the core at 64.9		2-3% pyrite disseminated and as stringers
64.9 - 76.8	Intermediate flow, dacite? - grey-green, locally pink, fairly soft - may be altered mafic - small chlorite flecks throughout - bleached pink along fractures - possible pillow rims locally - locally more mafic, ie' 70.5 - 71.5 and 73.5 - 76.8 - 70.0 - 70.4 "felsic" breccia	moderate sericite-chlorite alteration	2-3% pyrite, disseminated and along thin fractures
76.8 - 81.1	Felsic fragmental - pink to buff - locally similar to overlying unit - some green, mafic fragments - local "spherulitic" texture	moderate alteration	1-3% pyrite, disseminated and as stringers 80.2 - 81.1 to 1% sp and ga with py
81.1 - 116.0	Dacite to rhyolite - grey to buff, fairly massive and hard - similar to 64.9 - 76.8 but more felsic - small flecks of sericite throughout - some chlorite flecks below 88.0m - also a few prominent quartz phenos and white and a few pink feldspar phenos below ~88m - small fault gouge at 91.3 - darker grey below 89.0m - 94.5 - 101.0m fractured core with local fault gouge - 110.9 - 111.0 fault gouge - fewer quartz phenos over last 2-4m - 112.9 - 116.0 no quartz phenos, a few quartz and chlorite amygdulcs, locally more mafic looking	moderate quartz-sericite alteration local chloritic alteration 109.1 - 110.7 silicified	2-3% pyrite, disseminated and as stringers 81.1 - 83.7 < 1% sp and ga disseminated and with py stringers 91.3 - 107.8 ~1% py 107.8 - 109.1 2-3% py 109.1 - 110.7 6-8% py with stockwork silicification 110.7 - 116.0 1-3% py

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Sheet No. 4

Depth & Lithology	Description	Alteration	Mineralization
116.0 - 123.8	Felsic tuff - grey, green and buff felsic lithic tuff - commonly pumiceous with chloritic and sericitic pumice and shards - some fairly large quartz grains - 121.5 small shear at 45° to the core, some gouge 121.5 - 122.0m - sharp contact at 123.8 at 45° to the core	moderate quartz-sericite-chlorite alteration	about 1% disseminated pyrite except 8-10% from 116.0 - 116.4m
123.8 - 125.2	Dacite to rhyolite - buff to grey, fine grained - small chlorite and sericite flecks - may be a fine grained tuff	moderate quartz-sericite-chlorite alteration	1-2% py, disseminated and as thin stringers
125.2 - 140.1	Felsic tuff - grey, buff and black - some fine grained tuffaceous sediments - local bedding at ~45° to the core - 125.2 - 126.7 fine grained dacitic tuff with chloritic and sericitic shards gradational to next unit - 126.7 - 127.9 - lithic tuff, large rhyolite and pumice fragments in a fine grained matrix - 125.2 - 127.9 - likely a graded bed - tops up - 127.9 - 133.7 fine grained felsic to intermediate tuff and tuffaceous sediments - 133.7 - 138.1 chloritic, pumiceous lithic tuff - 138.1 - 140.1 rhyolitic, tuff, baked to rhyolite near 140.1 - weak shearing at 129.3, 133.7 and 138.4 - 138.8, all at 45-55° to the core	weak to moderate alteration	≈ 2% pyrite disseminated and as thin stringers
140.1 - 145.2	Mafic dyke - black, fine grained, magnetic - chilled contacts, upper at 70° and lower at 40°		
145.2 - 171.4	Rhyolite to dacite, flow or sill - pale pink to green, fine grained massive rock - occasional quartz pheno and small sericite flecks - pink zones appear to be alteration of green "dacite" - contacts are not sharp and rock is bleached to pink along fractures in green zones	moderate sericitic alteration, silicic? locally brecciated by alteration	145.2 - 146.2 1-2% py, disseminated and 1% sp, ga and cp along fractures and as a 1-2cm vein at 146.2 146.2 - 155.0 2-3% pyrite 155.0 - 158.0 ~1% pyrite 158.0 - 159.0 2-4% py as network veining 159.0 - 171.4 1-3% py disseminated and as veinlets with quartz and or calcite

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**GEOLOGICAL CONSULTANTS LTD
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Sheet No. 5

Depth & Lithology	Description	Alteration	Mineralization
171.4 - 172.3	Intermediate tuff - dark green, chloritic - hard, silicic, some quartz crystals throughout - cut by thin quartz veinlets	silicified	minor py
172.3 - 182.0	Rhyolite to dacite, as above - sheared and brecciated or fractured - pink to grey-green, fine grained - quartz-carbonate fracture fill - strong shearing at 45° to the core at 182.0	sericitic alteration	generally < 1% py but locally 5-6% fine py in more sheared rock ie; 179.4 - 180.4
182.0 - 186.4	Felsic tuff - green to pink lithic tuff - flattened rhyolitic lithic fragments, in a chloritic dacitic tuff matrix - some shearing and brecciation throughout	chloritic alteration	to 1% py
186.4 - 188.0	Mafic fragmental - dark green - angular mafic fragments in a silicic matrix - may include some felsic tuff as above - fractured, broken core, with some fault gouge	silicified, some chloritic alteration	1% py, locally to 2%
188.0	End of hole		

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PROJECT NO. _____

PROPERTY Tower Zone

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