

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 1

UTM CO-ORDINATES 513419E, 5409986N
 GRID CO-ORDINATES L134E, 10.000N
 ELEVATION 248m
 DIP AT COLLAR -70°
 BEARING 180°
 TOTAL DEPTH 290m CORE SIZE NQ

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
287	-71°	211°	

Project No. B4273 Hole No. BR-2K-05-04
 Property Buchans East - Middle Branch East
 NTS 12A/15 Grid Name Buchans East
 Date started 27/05/2000 Completed 29/05/2000
 Contractor Lantech Drilling Services Ltd.
 Logged by J. Harris

REMARKS The depth 166.9, drilled with metric rods but marked as if drilled with Imperial rods

Depth & Lithology	Description	Alteration	Mineralization
0 - 11.9	Overburden		
11.9 - 40.1	Mafic volcanic - some felsic to intermediate volcanic, (may be alteration) - dark green to grey, foliated at ~50° to the core - local flattened calcite "amygdules" - blebs of epidote - some felsic bands have quartz phenos - felsic to intermediate bands are generally <1m	moderate quartz-sericite-chlorite alteration	variable pyrite content, average 2-3% varies from 1% to 15% local sp and ga mainly in more "felsic" zones
40.1 - 83.4	Mafic dyke/sill - fine grained, black diabase - very strongly magnetic - narrow chilled contacts cut foliation	local epidote alteration	~ 47 - 77 ~ 1% pyrite as round blobs
83.4 - 93.9	Quartz-sericite schist - altered felsic volcanic? - light grey - a few thin, green, chloritic mafic bands - schistosity at 80 - 90° to the core, with some kink folding - 86.0 - 91.5 local fault gouge and breccia zones	strong quartz-sericite-pyrite alteration	5-20% pyrite rate fleck cpy

HOLE NO. BR-2K-05-04

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 2

Depth & Lithology	Description	Alteration	Mineralization
93.9 - 147.7	Interlayered mafic and felsic volcanics - green, grey-green and grey - zones of quartz-sericite schist similar to the unit above - locally appears tuffaceous, but may be due to foliation - local strongly magnetic units - strong foliation to schistosity at 70- 75° to the core, locally kinked - 102.8 - 104.0 fault gouge and breccia and 20 -30cm of mafic dyke - 93.9 - 105.5 mainly mafic to intermediate - 105.5 - 108.2 mainly felsic - qtz-ser schist - 108.2 - 114.9 thinly interbanded chloritic and sericitic schists - 114.9 - 122.6 mainly mafic - small fault gouge at 136.8 - 122.6 - 147.7 about 60% felsic to intermediate, some short hard rhyolite zones - fractured/faulted contact	moderate to strong quartz ± sericite ± chlorite alteration more felsic zones may just be zones of stronger alteration local pink potassic alteration	95.5 - 95.25 ~30% pyrite pyrite content varies from 1 to 10% generally 2-3% in chloritic zones and 4-5% in sericitic zones starting at about 140.0m Minor sp and ga with thin py stringers and disseminated
147.7 - 159.9	Dacite? - hard grey-green felsic rock, very fine grained - could be a fine tuff or sediment - occasionally bleached to light grey and looks rhyolitic - not well foliated, (due to hardness) - sharp conformable lower contact, bleached over 20cm	silicified?	1-2% pyrite, finely disseminated and along hairline fractures 1% sphalerite and local galena, mainly fracture controlled, locally to 1%, especially at base
159.9 - 171.5	Quartz-sericite schist - light grey to buff - schistosity at about 80° to the core, commonly kinked - 161.6 - 162.7 and 163.0 - 163.6 light green, intermediate to mafic - 167.1 - 167.6 grey-green rhyolite, looks like a version of the PQ rhyolite - small fault gouge zones at 163.8, 168.3 and 169.4m - gradational to next unit	strong quartz-sericite alteration, some bright green mica	~ 5% disseminate py 161.6 - 162.7 minor sp and ga
171.5 - 190.2	Mafic volcanic (to intermediate) - green and grey-green, well foliated at 80-90° to the core, locally kinked - some possible felsic to intermediate bands, locally with quartz phenos or grains - likely in part tuffaceous, flattened, elongate fragments - 177.7 - 178.9 "felsic" fragments in a chloritic matrix	moderate to strong quartz-sericite-chlorite alternation, appears to be decreasing somewhat down hole	2-8% pyrite

HOLE NO. BR-2K-05-04

**GEOLOGICAL CONSULTANTS LTD
DIAMOND DRILL CORE LOG**

Sheet No. 4

Depth & Lithology	Description	Alteration	Mineralization
263.6 - 286.7	Mafic fragmental - dark green, weak to moderate foliation at 65- 75° to the core, locally magnetic - fragments with pink and green, epidotized feldspar phenos - some epidotized fragments - a few felsic to intermediate fragments - 266.3 - 266.7 prominent quartz rhyolite fragment or sill - 271.6 - 272.2 chilled, brown rhyolitic sill or fragment - 280.6 - 281.9 mafic dyke, bleached mafic volcanic inclusion from 281.0 - 281.3 - 282.9 - 284.1 massive mafic sill or flow		minor pyrite
286.7 - 290.0	Mafic Dyke - dark green to black, fine grained, magnetic		
290.0	End of Hole		

HOLE NO. BR-2K-05-04

DIAMOND DRILL CORE ASSAYS

SHEET NO. 1 of 1

PROJECT NO. B4273

HOLE NO. BR-2K-05-04

PROPERTY Buchans East

[illegible]