

**GEOLOGICAL CONSULTANTS LTD  
DIAMOND DRILL CORE LOG**

Sheet No. 1

|                                             |                               |                    |                                    |                               |                                                               |
|---------------------------------------------|-------------------------------|--------------------|------------------------------------|-------------------------------|---------------------------------------------------------------|
| UTM CO-ORDINATES <u>0518821E/ 5406399N</u>  | Tests<br>Depth<br><u>200m</u> | Dip<br><u>-52°</u> | Magnetic<br>Bearing<br><u>211°</u> | Corrected<br>Bearing<br>_____ | Project No. <u>B4973M/V1, F61</u> Hole No. <u>BR-2K-08-02</u> |
| GRID CO-ORDINATES <u>188+00E 63+50N</u>     | _____                         | _____              | _____                              | _____                         | Property <u>Buchans East - Tower Zone</u>                     |
| ELEVATION <u>~265m</u>                      | _____                         | _____              | _____                              | _____                         | NTS <u>12A/15</u> Grid Name <u>Buchans East</u>               |
| DIP AT COLLAR <u>-50°</u>                   | _____                         | _____              | _____                              | _____                         | Date started <u>31/05/2000</u> Completed <u>02/06/2000</u>    |
| BEARING <u>180°</u>                         | _____                         | _____              | _____                              | _____                         | Contractor <u>Lantech Drilling Services Ltd.</u>              |
| TOTAL DEPTH <u>209m</u> CORE SIZE <u>NQ</u> | _____                         | _____              | _____                              | _____                         |                                                               |
| REMARKS _____                               | _____                         | _____              | _____                              | _____                         | Logged by <u>J. Harris</u>                                    |

| Depth & Lithology | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Alteration                                                                                                                                                                                                                                                                                           | Mineralization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0 - 8.3           | Overburden                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 8.3 - 169.3       | <p>Pyroclastic breccia, mafic</p> <ul style="list-style-type: none"> <li>- mainly angular, dark green, chloritic fragments in a white siliceous matrix, hyaloclastite breccia?</li> <li>- some grey and pink "felsic" fragments</li> <li>- 28.4 - 33.9 fine grained flow, may be pillowed</li> <li>- banding/layering at ~70° to the core at 28.4m</li> <li>- 51.2 - 54.1 massive fine grained flow, dacite?</li> <li>- local soft sericitic fragments, Pumice?</li> <li>- local variolitic, ie; at 28.3</li> <li>- 104.1 - 110.3 mainly finer grained breccia to lithic tuff</li> <li>- 110.3 - 111.0 buff felsic fragment or flow</li> <li>- 114.3 - 116.3 buff to green dacite to andesite</li> <li>- 116.3 - 146.2 coarse breccia to lithic tuff, similar to above but with common grey and buff felsic to intermediate fragments - small fault gouge at 139.6</li> <li>- 137.5 - 144.8 white silica fragments in a chloritic matrix, silica fragments often have irregular edges</li> <li>- 144.8 - 151.0 finer grained andesitic to dacitic tuff, abundant sericitic and chloritic shards/pumice</li> <li>- 151.0 - 169.3 coarse mafic lithic tuff (hyaloclastite), angular chloritic fragments in a white silica matrix</li> <li>- sericitic fragments also down to 155.4</li> </ul> | <p>strong-quartz chlorite ± sericite alteration</p> <p>pink felsic alteration or surface weathering down to ~12m</p> <p>68.0 - 122.5 moderate to strong alteration</p> <p>122.5 strong quartz-chlorite ± sericite alteration</p> <p>some "felsic" fragments are strongly altered and mineralized</p> | <p>1-3% pyrite, disseminated and with chlorite local sp, ga and cpy, mainly with chlorite/pyrite bands or veins but locally disseminated</p> <p>23.3 - 23.6 ≈ 1% chalcopyrite with a calcite-quartz vein</p> <p>27.2 - 27.3 ≈ 1% sp, 5-10% barite and 20-30% py with chlorite</p> <p>34.0 - 34.2 2-3% cpy with py-chl stockwork</p> <p>68.3 - 68.5 40% py and 1-3% sp with chlorite</p> <p>68.0 - 122.5 generally 1% or less pyrite, locally more with veining local sp, cpy and ga throughout</p> <p>84.0 - 84.3 ~1-2cm quartz-sulphide vein along the core</p> <p>122.5 - 169.3 1-3% py</p> <p>136.5 - 137.5 2-3% disseminated sphalerite, local sp, ga and cpy throughout</p> |

HOLE NO. BR-2K-08-02

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Sheet No. 2

| Depth & Lithology | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Alteration                          | Mineralization                                                                                                                                                           |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 169.3 - 201.7     | <p>Dacite flow</p> <ul style="list-style-type: none"> <li>- grey-green and pink, fine grained hard rock</li> <li>- a few plagioclase phenos, local flow breccia</li> <li>- chlorite as small flecks and along a network of hairline fractures</li> <li>- could be in part silicified mafic</li> <li>- 187.0 - 193.4 fine grained, grey-green, massive</li> <li>- 191.9 - 201.7 brecciated and sugary textured due to shearing, 198.8 - 199.2 strong shearing at about 80° to the core</li> <li>- 3-4cm fault gouge at 199.2</li> <li>- sheared prominent quartz rhyolite "fragments"? from 199.2 - 199.4 and 200.1 - 200.2</li> <li>- thin fault gouge at 201.7</li> </ul> | Moderate quartz-chlorite alteration | <p>1-2% pyrite<br/>minor sp and cpy with occasional quartz-chlorite veins or bands<br/>191.9 - 199.2 ~5% pyrite, 10-20% from 198.2 - 199.2<br/>199.2 - 201.7 2-3% py</p> |
| 201.7 - 209.0     | <p>Fine grained pink felsic rock</p> <ul style="list-style-type: none"> <li>- somewhat sheared, mainly quartz and sericite</li> <li>- may be Sandy Lake Fm sandstone or a felsic sill</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     | <p>&lt;1% pyrite<br/>occasional galena, appears to be fracture controlled</p>                                                                                            |
| 209.0             | End of Hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                                                                                                                                                          |

HOLE NO. BR-2K-08-02

**GEOLOGICAL CONSULTANTS LTD.**  
**DIAMOND DRILL CORE ASSAYS**

SHEET NO. 1 of 1

PROJECT NO. B4973M

HOLE NO. BR-2K-08-02

PROPERTY Buchans, Tower Zone

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