

**J. TUACH GEOLOGICAL CONSULTANTS, INC.  
DIAMOND DRILL CORE LOG**

LATITUDE L 157 + 00 E  
 DEPARTURE 84 + 00 N  
 ELEVATION \_\_\_\_\_  
 DIP AT COLLAR - 45°  
 BEARING 180°  
 TOTAL DEPTH 99.4 CORE SIZE BQ  
 REMARKS \_\_\_\_\_

| Tests<br>Depth | Dip | Magnetic<br>Bearing | Corrected<br>Bearing |
|----------------|-----|---------------------|----------------------|
| None           |     |                     |                      |
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Project No. \_\_\_\_\_ Hole No. BE-95-06  
 Property \_\_\_\_\_  
 NTS \_\_\_\_\_ Grid Name \_\_\_\_\_  
 Date started Dec 12/95 Completed \_\_\_\_\_  
 Contractor \_\_\_\_\_  
 Logged by Phillip Saunders

| Depth & Lithology              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Alteration                                                                                                                                                 | Mineralization                                                         |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 0 - 5.5<br>5.5 - 19.1          | <b>OVERBURDEN</b><br><br><b>FELSIC FLOWS</b><br>- medium to dark greenish grey<br>- very fine grained to glassy, homogenous, hard<br>- generally more chloritic in upper part of hole (5.5 - 8) but grades downward into hard, glassy siliceous rock<br>- probably overall dacitic<br><br>55.5 - 6.5<br>- occasional large (to 10cm) pale green (epidote?) altered fragments - generally rounded below 9.0, scattered quartz phenocrysts (2-4 mm), small, altered feldspar grains, irregular, 2-4 cm chloritic fragments (?) | 5.5 - 8.0<br>- calcite +/- epidote on some fractures<br>- calcite veinlets throughout unit<br>- no significant alteration                                  | trace disseminated pyrite                                              |
| 19.1 - 21.0<br><br>19.1 - 21.0 | <b>SHALE/SANDSTONE</b><br>- interbedded black graphitic shale and medium-grey fine grained sandstone<br>- bedding irregular, inter leaved, but generally 60 - 80° TCA<br><br>- pyrite laminae 2-4 mm<br>- angular dacite fragments to 10 cm across - slumped?<br>- shales consist of fine grained chlorite, graphite and qtz                                                                                                                                                                                                 | calcite veins                                                                                                                                              | - 2-4mm pyrite laminae in shale (eg. 19.6)<br>- py in calcite veinlets |
| 21.0 - 31.1                    | <b>FELSIC FLOW</b><br>- medium-green, hard, glassy rock<br>- 2-3mm milky qtz phenocrysts, uniform, fine grained ground mass<br>- well brecciated in upper part (to 23.5)                                                                                                                                                                                                                                                                                                                                                     | - minor qtz- sericite - pyrite on some fractures, vaguely-defined siliceous zones (eg. 26 - 29.4) may reflect more pervasive alteration<br>- calcite veins | trace pyrite                                                           |

| Depth & Lithology | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Alteration                        | Mineralization                                                                                                                                         |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31.1 - 34.4       | <b>FELSIC TUFF</b><br>- light olive green to greenish-grey, soft<br>- strong foliation (about 70° TCA) defined, by flattened fragments, sericite<br>- abundant small glassy shards; pumiceous appearance<br>- occasional qtz phenocrysts                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   | 31.6<br>1 cm irregular quartz vein with definite blue grey color; possible very fine grained gn-sp<br><br>trace disseminated and stringer pyrite       |
| 34.4 - 36.2       | <b>SHALE, SANDSTONE, TUFF</b><br>- intervals of medium - coarse dacite tuff/breccia with subangular to subrounded fragments, interbedded with narrow bands of grey sandstone and black graphitic shale<br>- shales appear to be a fine grained mixture of chlorite, graphite and quartz                                                                                                                                                                                                                                                                                                                                                                                                  |                                   | trace - 1% pyrite disseminated and stringers                                                                                                           |
| 36.2 - 56.0       | <b>FELSIC TUFF</b><br>- variety of fine to medium grained, greenish grey dacitic tuffs<br>- massive to cruddy bedded<br>- upper part of unit (~36.2 - 40m) uniform, fine grained sandy tuff, occasional small qtz grains<br>- 40-49.1 medium - coarse, gritty, quartz and feldspar grains (2-6mm), occasional lithic fragments<br>- may be a fining - upward unit<br><br>49.1 - 60.2<br>- fine grained sandy tuff similar to 36.2 - 40m but grey, not green<br>- upper contact sharp, irregular, about 60° TCA<br>- fragments of overlying coarse tuff near upp contact<br>- @ 50.8 m bedding @ 50° TCA, 50.9 @ 40° TCA<br><br>54.9 - 56 interval of medium-coarse grained tuff as above | no significant alt                | trace disseminated pyrite                                                                                                                              |
| 56.0 - 63.1       | <b>SEDIMENTS</b><br>- medium grey and black, massive to well bedded sediments<br>- interbedded tuff or fine sandstone, mirror black shale. Minor graphite<br>- local subangular to subrounded felsic fragments, chaotic (slumped?)<br>56.9 - well rounded, 5cm fragment of dacitic qtz porphyry in sandstone<br>contacts 80° @ 58.9, 65° @ 63.5m<br>locally strong foliation defined by chlorite/Qtz, fine pyrite laminae 50° @ 64.0m                                                                                                                                                                                                                                                    | - narrow, widely spaced qtz veins | - thin, pyrite stringers, lenses in shaly intervals<br>- pyrite with calcite on some fractures<br>- 1% disseminated and stringer pyrite in sandy units |
| 63.1 - 78.5       | <b>FELSIC TUFF</b><br>- greenish grey, massive, well sorted<br>- mainly medium-coarse grained but fines gradually upward over about 5m<br>- qtz grains to 5mm, felsic & mafic lithic fragments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | widely spaced qtz & calcite veins | tr py                                                                                                                                                  |

| Depth & Lithology | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Alteration                       | Mineralization                                                                                                                                                      |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 75.5 - 93.4       | <b>SEDIMENTS</b><br>- greenish grey to black<br>- upper contact abrupt @30° TCA<br>- fine grained, locally well bedded<br>- upper unit mainly green-grey mudstone & fine sandstone<br>- faintly bluish grains in sandstone - plagioclase<br>- below 84.4m, mainly black chloritic mudstone/shale locally graphitic<br>- local shearing in muddy sections, 60° TCA, stretched, folded, brecciated qtz veins<br>82.0-82.6 - zone of shearing (60° TCA) gouge, qtz veining<br>- bedding 45° @83.0, 40° @87.0, 65° @89.9m | spaced qtz veins & pods, pyritic | - locally 3-5% pyrite as laminae & stringers in shale - associated w/ qtz veining, trace cp?<br>- trace chalcopryite @92.7m<br>- sandy unite, trace-1% diss. pyrite |
| 93.4 - 99.4       | <b>MAFIC VOLCANICS</b><br>- upper part, pale green, fine to medium grained, tuffaceous, fines upward over 3m<br>97.3-99.4 - dark green, massive flow, mainly chloritic w/ irregular qtz-epidote patches                                                                                                                                                                                                                                                                                                               |                                  |                                                                                                                                                                     |
| 99.4 EOH          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                                                                                                                                                     |

PROJECT NO. \_\_\_\_\_

PROPERTY Buchans East

[illegible]