



**SAMPLE DESCRIPTIONS**  
**WELL P.C.5 CANTEIRA**  
**TWEED LAKE M-47**

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| From | To   | Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |      | moderately sorted, abundant silica cement, dolomite cement, ferrous cement, argillaceous to very argillaceous, tight to trace of intergranular porosity ( <del>from</del> sand may possibly be classed as a sub-greywacke or litharenite)                                                                                                                                                                                                                                                              |
| 1269 | 1289 | INTERBEDS OF SHALE: maroon, dark brown/red, <del>hard</del> blocky, hard, sandy to very sandy in part, slightly dolomitic, very siliceous, and; SANDSTONE: maroon, quartz and lithic grains, silt to fine grained, sub angular to sub rounded, moderately sorted, abundant silica cement, minor <sup>abundant ferruginous cement,</sup> dolomite cement, argillaceous to very argillaceous matrix tight, trace of microveining, trace of dolomite rhombs in arg mat argillaceous matrix.               |
| 1289 | 1308 | INTERBEDS of SHALE: maroon, dark brown, blocky, hard, very sandy in part, slightly dolomitic trace anhydritia? very siliceous grades to sandstone and SANDSTONE: maroon, dark brown, quartz and lithic fragments, silt to fine grained, moderately sorted, hard, minor dolomite cement, trace of anhydrite cement, abundant silica cement, abundant ferrous cement, argillaceous to very argillaceous matrix, tight, trace of siltstone, trace of microveining, trace of dolomite rhomboids in matrix. |

SAMPLE DESCRIPTIONS  
WELL P.C.I. CANTARA  
TWEED LAKE M-47

| From  | To   | Descriptions                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       |      | micaceous, moderately hard                                                                                                                                                                                                                                                                                                                                                                                      |
| 1233  | 1235 | SANDSTONE: tan, light brown, quartz, very fine to fine grained, occasionally medium grained, sub angular, well sorted, silica cement, slightly argillaceous in part, bitumen plugged in part, poor to occasional good intergranular porosity, trace of weak yellow fluorescence, trace of slow pale yellow/green massive cut.                                                                                   |
| 1235m |      | PROTEROZOIC (CLASTIC SEQUENCE) (-799.78)                                                                                                                                                                                                                                                                                                                                                                        |
| 1235  | 1245 | INTRABEDS OF SANDSTONE: dark brown/red, maroon, quartz, very fine to fine grained, sub angular to sub rounded, well sorted, silica cement, red argillaceous matrix, very poor to poor intergranular porosity, trace of slow weak yellow/green cut, trace of dolomite; and; SHALE: maroon, red/brown, blocky, very sandy, hard, slightly dolomitic in part, siliceous in part, grades to argillaceous sandstone. |
| 1245  | 1261 | SHALE: maroon, blocky, hard, slightly dolomitic in part, siliceous, very sandy, grades to argillaceous sandstone, with occasional pockets and rhombs of dolomite.                                                                                                                                                                                                                                               |
| 1261  | 1269 | SHALE: as above interbedded with; SANDSTONE: maroon, quartz and lithic frags, silt to fine grained, sub angular to sub rounded                                                                                                                                                                                                                                                                                  |



SAMPLE DESCRIPTIONS  
WELL P.C.I. CANTERRA  
TWEED LAKE M-47

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| From | To   | Descriptions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1217 | 1224 | SEE CORE DESCRIPTION CORE #1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 1224 | 1228 | INTERBEDDED SANDSTONE: cream to medium brown, quartz, very fine to fine grained, occasionally medium grained, sub angular to well rounded, moderately sorted, silica cement, slightly argillaceous matrix in part, trace bitumen plugged, poor to fair intergranular porosity; trace of weak yellow fluorescence, trace of faint pale yellow/green cut, and SHALE: dark grey/green, blocky, slightly micro-micaceous, moderately hard, and; SILTSTONE: cream to light brown, quartz, silt, well sorted, abundant silica cement, slightly argillaceous matrix, poor effective intergranular porosity, trace of weak yellow fluorescence, trace of faint pale yellow/green massive cut, |
| 1228 | 1231 | SANDSTONE: light grey, light brown, quartz, very fine to coarse grained, well rounded, coarse grained in a matrix of sub angular, very fine to fine grained quartz, silica cement, slightly argillaceous to argillaceous matrix, trace bitumen plugged, fair to occasional good intergranular porosity, trace of live oil staining, trace of weak yellow fluorescence, show weak yellow green, massive cut,                                                                                                                                                                                                                                                                           |
| 1231 | 1233 | SHALE: Dark grey/green, blocky, slightly, micro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |