

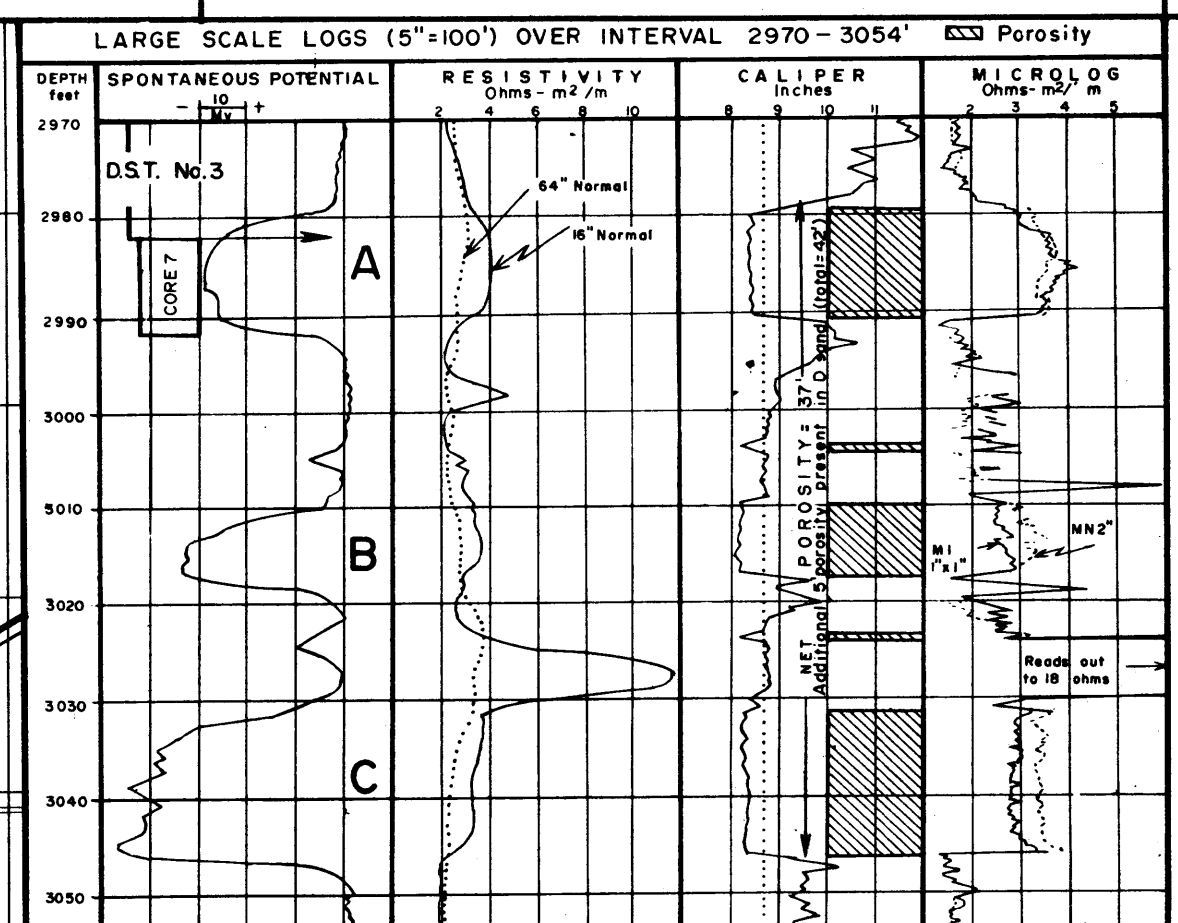
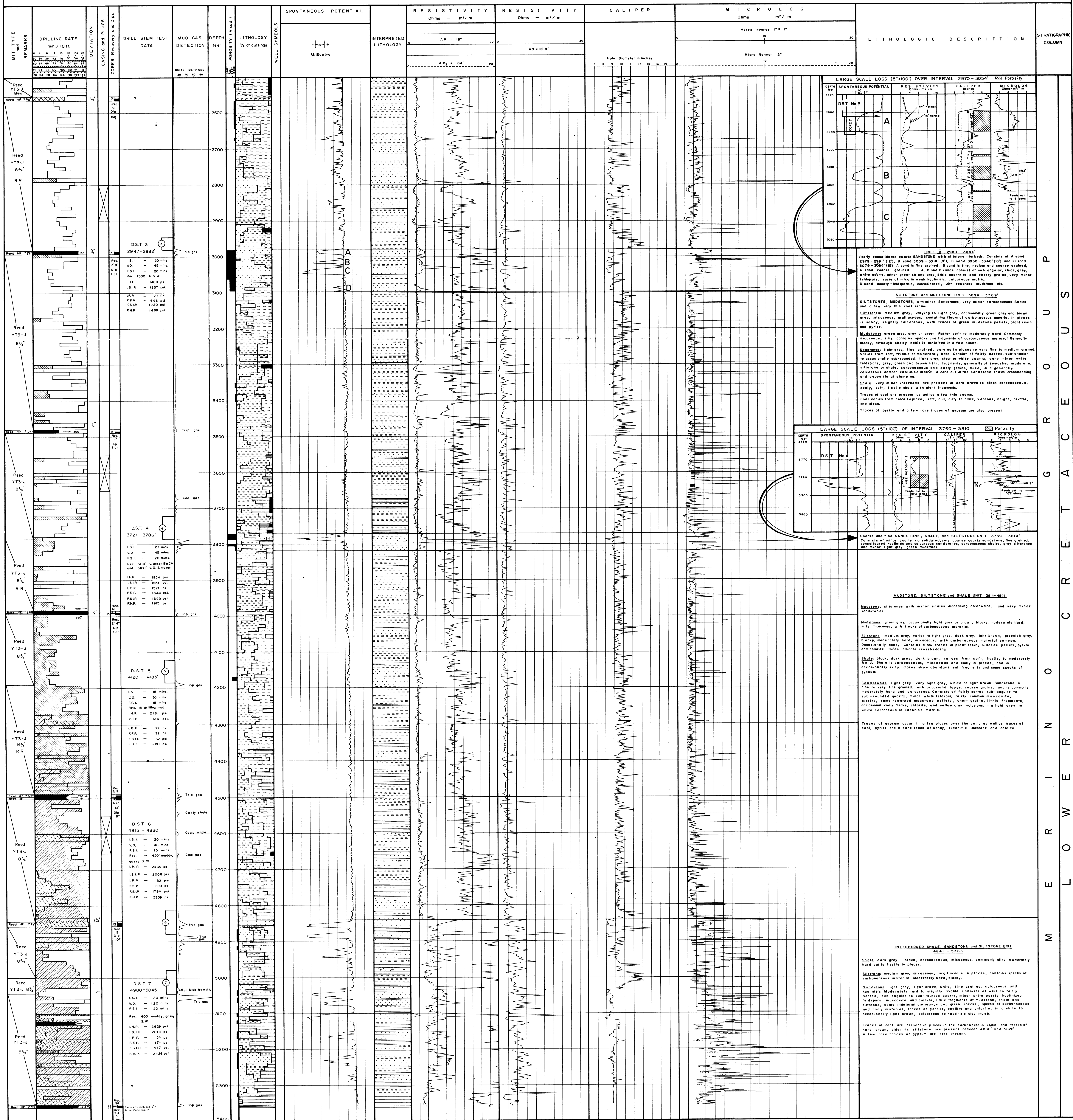
# PLANET TULLICH No.1 WELL

2500 - 5363'

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A-387  
Enclosure 3

Sheet 2 of 2



**LARGE SCALE LOGS (5'x100') OVER INTERVAL 2970-3054'**

**UNIT ID 2980-3054'**

Poorly consolidated quartz SANDSTONE with siltstone interbeds. Consists of A sand 2979-2991 (12'), B sand 3009-3016 (7'), C sand 3030-3046 (16') and D sand 3079-3084 (5'). A sand is fine grained, B sand is fine grained, C sand is coarse grained, D sand is coarse grained. A, B and C sands consist of sub-angular, clear, grey, white quartz, minor greenish and grey, lentic siltstone and coarse, grey, very minor talciferous, traces of mica in weak kaolinitic, calcareous matrix. D sand mostly talciferous, consolidated, with reversed mudstone etc.

**SILTSTONE and MUDSTONE UNIT 3054-3769'**

SILTSTONES, MUDSTONES, with minor Sandstones, very minor carbonaceous shales and a few very thin coal seams.

Siltstones: medium grey, varying to light grey, occasionally green grey and brown grey, micaceous, argillaceous, containing flecks of carbonaceous material. In places is sandy, slightly calcareous, with traces of green mudstone pellets, plant resin and pyrite.

Mudstone: green grey, grey or green. Rather soft to moderately hard. Commonly micaceous, silty, contains specks and fragments of carbonaceous material. Generally blocky, although shaly habit is exhibited in a few places.

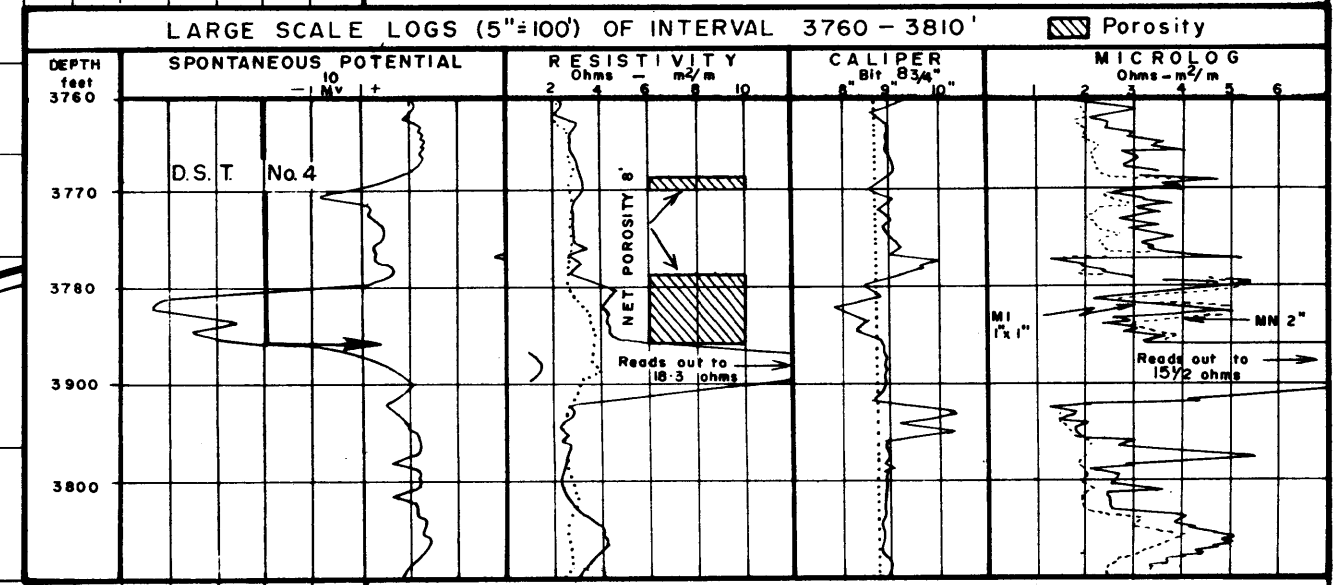
Sandstone: light grey, fine grained, varying in places to very fine to medium grained. Varies from soft, friable to moderately hard. Consist of fairly sorted, sub-angular to occasionally sub-rounded, light grey, clear or white quartz, very minor white talciferous, grey, green and brown lithic fragments, generally of reversed mudstone, siltstone or shale, carbonaceous and coaly grains, mica, in a generally calcareous and/or kaolinitic matrix. A core cut in the sandstone shows crossbedding and desiccational clumping.

Shale: very minor interbeds are present of dark brown to black carbonaceous, coaly, soft, fissile shale with plant fragments.

Traces of coal are present as well as a few thin seams.

Coal varies from piece replace, soft, dull, dirty to black, vitreous, bright, brittle, and clean.

Traces of pyrite and a few rare traces of gypsum are also present.



**LARGE SCALE LOGS (5'x100') OF INTERVAL 3769-3810'**

**UNIT ID 3769-3810'**

Coarse and fine SANDSTONE, SHALE, and SILTSTONE UNIT. 3769-3814'

Coarse and fine sandstone, shale, and siltstone. Consists of coarse grained, consolidated kaolinitic and calcareous sandstones, carbonaceous shales, grey siltstones and minor light grey-green mudstone.

**MUDSTONE, SILTSTONE and SHALE UNIT 3814-4841'**

Mudstone, siltstones with minor shales increasing downward, and very minor sandstones.

Mudstone: green grey, occasionally light grey or brown, blocky, moderately hard, silty, micaceous, with flecks of carbonaceous material.

Siltstone: medium grey, varies to light grey, dark grey, light brown, greenish grey, blocky. Moderately hard, micaceous, with carbonaceous material common. Occasionally sandy. Contains a few traces of plant resin, siderite pellets, pyrite and chlorite. Cores indicate crossbedding.

Shale: black, dark grey, dark brown, ranges from soft, fissile, to moderately hard. Shale is carbonaceous, micaceous and coaly in places, and is occasionally silty. Cores show abundant leaf fragments and some specks of gypsum.

**SANDSTONE, SILTSTONE and SHALE UNIT 4841-5363'**

Sandstone: light grey, very light grey, white or light brown. Sandstone is fine to very fine grained, with occasional coarse, coarse grained, and is commonly moderately hard and calcareous. Consists of fairly sorted, sub-angular to sub-rounded quartz, minor white talciferous, fairly common muscovite, biotite, some reversed mudstone pellets, chert grains, lithic fragments, occasional coaly flecks, chlorite, and yellow clay inclusions, in a light grey to white calcareous or kaolinitic matrix.

Traces of gypsum occur in a few places over the unit, as well as traces of coal, pyrite and a rare trace of sandy, sideritic limestone and calcite.

**INTERBEDDED SHALE, SANDSTONE and SILTSTONE UNIT 4841-5363'**

Shale: dark grey - black, carbonaceous, micaceous, commonly silty. Moderately hard but is fissile in places.

Siltstone: medium grey, micaceous, argillaceous in places, contains specks of carbonaceous material. Moderately hard, blocky.

Sandstone: light grey, light brown, white, fine grained, calcareous and kaolinitic. Moderately hard to slightly friable. Consists of well to fairly sorted, sub-angular to sub-rounded quartz, minor white quartz, kaolinitic talciferous, muscovite and biotite, lithic fragments of mudstone, shale and siltstone, some moderate orange and green specks, specks of carbonaceous and coaly material, traces of garnet, phyllite and chlorite, in a white to occasionally light brown, calcareous to kaolinitic clay matrix.

Traces of coal are present in places in the carbonaceous shale, and traces of hard, brown, sideritic siltstone are present between 4880' and 5020'. A few rare traces of gypsum are also present.

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