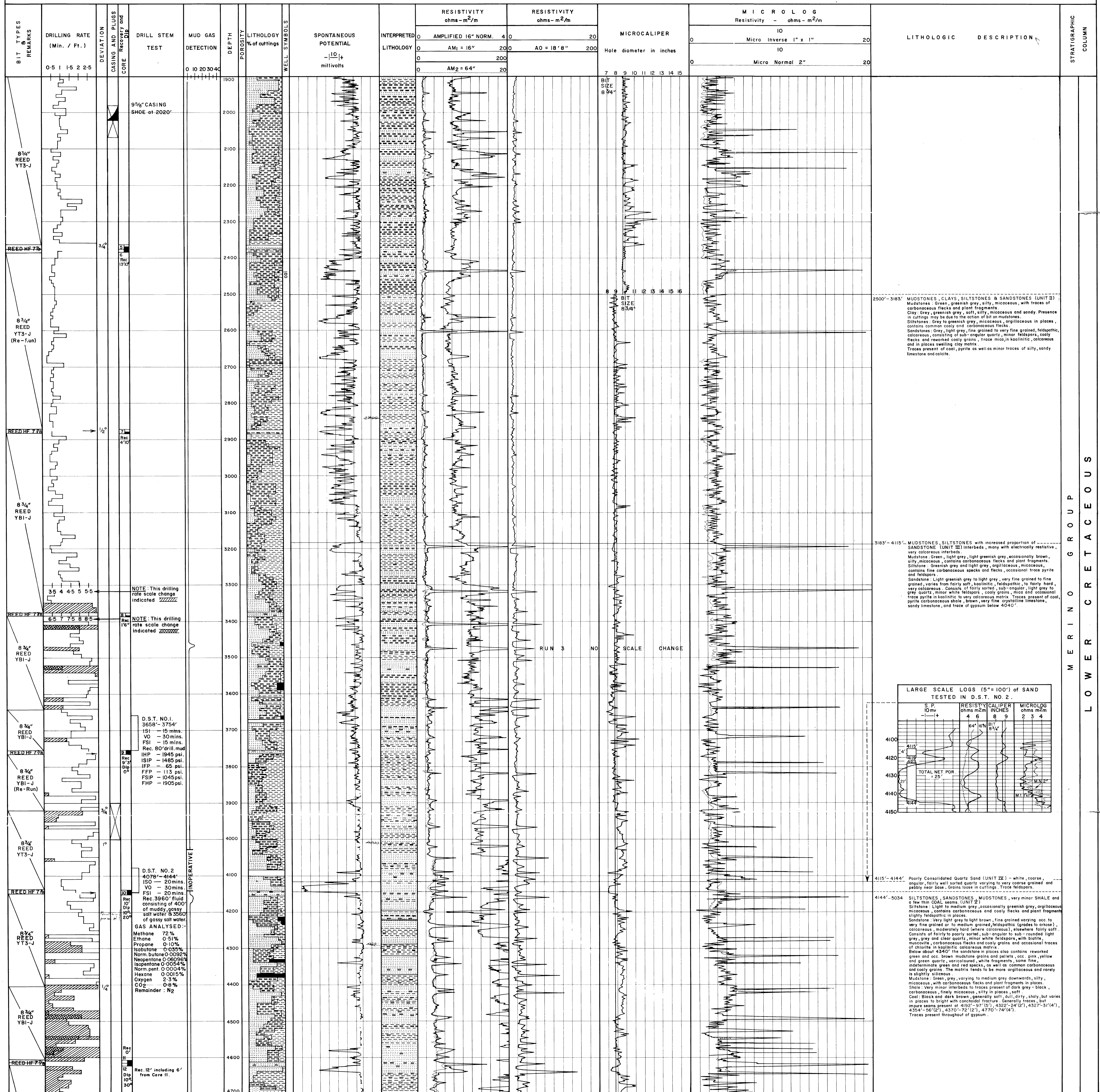


COMPOSITE WELL LOG

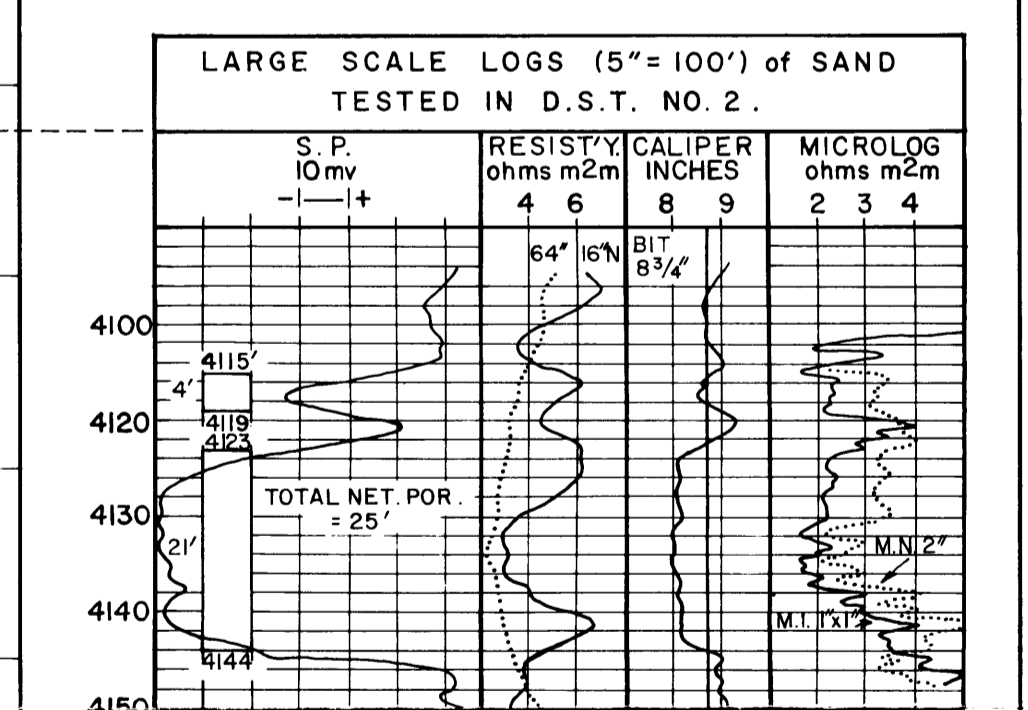
PLANET : HEATHFIELD N°1 WELL

1900' - 4700'



2500' - 3183' MUDSTONES, CLAYS, SILTSTONES & SANDSTONES (UNIT II)
Mudstones: Green, greenish grey, silty, micaceous, with traces of carbonaceous flecks and plant fragments.
Siltstones: Grey to greenish grey, micaceous, argillaceous in places, contains common coaly and carbonaceous flecks.
Sandstones: Grey, light grey, fine grained to very fine grained, feldspathic, calcareous, consisting of sub-angular quartz, minor feldspars, coaly flecks and reworked coaly grains. Trace mica, kaolinitic, calcareous and in places swelling clay matrix. Traces present of coal, pyrite as well as minor traces of silty, sandy limestone and calcite.

3183' - 4115' MUDSTONES, SILTSTONES with increased proportion of SANDSTONE (UNIT III) interbeds, many with electrically resistive, very calcareous interbeds.
Mudstone: Green, light grey, light greenish grey, occasionally brown, silty, micaceous, contains carbonaceous flecks and plant fragments.
Siltstone: Greenish grey and light grey, argillaceous, micaceous, contains fine carbonaceous specks and flecks, occasional trace pyrite and feldspars.
Sandstone: Light greenish grey to light grey, very fine grained to fine grained, varies from fairly soft, kaolinitic, feldspathic, to fairly hard, very calcareous. Consists of fairly sorted, sub-angular, light grey to grey quartz, minor white feldspars, coaly grains, mica and occasional trace pyrite in kaolinitic to very calcareous matrix. Traces present of coal, pyrite carbonaceous shale, brown, very fine crystalline limestone, sandy limestone, and trace of gypsum below 4040'.



4115' - 4144' Poorly Consolidated Quartz Sand (UNIT III) - white, coarse, angular, fairly well sorted quartz varying to very coarse grained and pebbly near base. Grains loose in cuttings. Trace feldspars.

4144' - 5034' SILTSTONES, SANDSTONES, MUDSTONES, very minor SHALE and a few thin COAL seams (UNIT II)
Siltstone: Light to medium grey, occasionally greenish grey, argillaceous, micaceous, contains carbonaceous and coaly flecks and plant fragments slightly feldspathic in places.
Sandstone: Very light grey to light brown, fine grained varying occ to very fine grained to medium grained, feldspathic (grades to arkose), calcareous, moderately hard (where calcareous), elsewhere fairly soft. Consists of fairly poorly sorted, sub-angular to sub-rounded light grey, grey and clear quartz, minor white feldspars, with biotite, muscovite, carbonaceous flecks and coaly grains and occasional traces of chlorite in kaolinitic calcareous matrix. Below about 4340' the sandstone in places also contains reworked green and occ. brown mudstone grains and pellets, occ. pink, yellow and green quartz, varicoloured, white fragments, some fine, indeterminate green and red specks, as well as common carbonaceous and coaly grains. The matrix tends to be more argillaceous and rarely is slightly siliceous.
Mudstone: Green, grey, varying to medium grey downwards, silty, micaceous, with carbonaceous flecks and plant fragments in places.
Shale: Very minor interbeds to traces present of dark grey - black, carbonaceous, finely micaceous, silty in places, soft.
Coal: Black and dark brown, generally soft, dull, dirty, shaly but varies in places to bright with conchoidal fracture. Generally traces, but impure seams present at 4192'-97'(5'), 4322'-24'(2'), 4327'-31'(4'), 4354'-56'(2'), 4370'-72'(2'), 4770'-74'(4').
Traces present throughout of gypsum.

LOWER CRETACEOUS
MERINO GROUP