COMPOSITE WELL LOG

PLANET : HEATHFIELD NºI WELL

	4700'-7500'  PE602054		
DRILLING RATE (Min / Ft.)  3.5 4 4.5 5 5.5  6.5 7 7.5 8 8.5  6.5 7 7.5 8 8.5  9.5 10 10.5 11 11.5  DEVILE REMARKS  DETECTION  O 10 20 30 40  O 10 20 30 40  O 10 20 30 40	RESISTIVITY   RESISTIVITY   Ohms = m²/m	20 LITHOLOGIC DESCRIPTION 20	STRATIGRAPHIC
83¼" REED YT3-J 4900			
83/4 REED 5100 5200		5036'-5604' SILTSTONES, MUDSTONES, SANDSTONES and SHALES (UNIT VI) Siltstones: Medium grey to occasionally light grey and dark grey and occasionally light brown to dark brown. Micaceous, argillaceous, slightly feldspathic in places, contains fairly common carbonaceous flecks. Traces of gypsum, pyrite and mudstone pellets and pebbles. Mudstones: Medium grey to medium brown to greenish grey, generally silty, micaceous and containing minor carbonaceous specks and flecks. Sandstones: Light grey to very light grey, fine grained to very fine grained, commonly, slightly to moderately calcareous, kaolinitic, consists of fairly sorted, sub-angular, occasionally sub-rounded light grey quartz, minor white feldspars, minor green and brown reworked mudstone grains, pellets and very minor dark grey carbonaceous shale fragments, common coaly and carbonaceous grains and flecks, common traces of biotite and muscovite, trace chlorite; light brown clay inclusions, dark grey chert grains and rare green quartzite grains, in a kaolinitic, calcareous matrix.  Shale: Black, dark brown to dark grey, medium brown. Carbonaceous, containing coally inclusions, plant fragments. Slightly silty in places,	
8 3/4"  REED  YBI-J  REFD HF 7/8  8 3/4"  REED  2° I4  Rec I0′ Dip 20°  8 3/4"  REED  5500		containing coally inclusions, plant fragments. Slightly silty in places, slightly fissile.  Coal seam present at 5430' consisting of impure black shales, some bright with conchoidal fracture. Gross thickness about 5'. Traces of coal and gypsum are present throughout. Rare traces of biotite and calcite. Traces of ferruginous, calcareous and sideritic siltstone and mudstone between 5210' and 5400'.	
8 <sup>3</sup> / <sub>4</sub> REED YBI-J 8 <sup>3</sup> / <sub>4</sub> REED YBI-J (Re-Run) REEDHF 7 7/8  Rec. IO'mud.  ISIP — 45 psi ISIP — 0 psi		5604'-7500' INTERBEDDED SILTSTONES, SANDSTONES, SHALES and MUDSTONES. (UNIT VII)  The siltstones, generally medium grey, varying locally to light grey, brown, dark brown or greenish grey. The presence of common carbonaceous material in the form of flecks and specks and some laminations as a characteristic feature. Siltstones are argillaceous, micaceous and occasionally sandy. Rare traces present of gypsum and calcite.  Sandstones are light grey, very light grey, whitish grey, medium grey, light brown, fine grained, occasionally very fine grained, medium grained, rarely coarse grained, hard to moderately soft. The harder variety is calcareous, softer variety is kaolinitic to calcareous.  The sandstone is brittle, friable in places, constituent grains in these are recovered loose in the cuttings.  In these instances, grains up to and including granule size, of clear, fresh angular quartz as well as rounded, frosted, are common aswellas a few	S
83/4" REED HF 798  83/4" REED HF 798  83/4" REED HF 798  1000  1000  1000		are in a kaolinitic to calcareous matrix.  Below 7200' the sandstones are silicified in a few places.  Mudstones: medium grey, brown, greenish grey, green, silty, finely micaceous in places, and contain minor amounts of carbonaceous specks and flecks. Mudstones grade to shale near the base of the unit.  Shale: dark grey, dark brown, black, commonly carbonaceous, some coaly laminations. Where mudstone grades into shale, the shale is medium grey in places, and slightly silty.  Shale is slightly micaceous in places, contains some plant fragments.  Coal seams: Impure seams of black, shaley, dull coal with minor bright coal with conchoidal fracture present at 6280'-83'(3'), 6692'-95'(3') and 6715'-18'(3').  Traces are present throughout of gypsum and coal. Gypsum traces decrease downwards. A few traces of white crystaline calcite (fracture	G R O U
8 <sup>3</sup> / <sub>4</sub> "  REED  YT3-J  6300	RUN 4.	filling) also present Rare traces of pyrite , siderite , dark brown ferruginous shale and brown ferruginous , calcareous siltstone also present.	M E R I N O R C R
REED HE 7 7/6  8 3/4"  REED  YT3-J  6600			L O W
8 <sup>3</sup> / <sub>4</sub> "  REED  YT3·J  REED HE 7/6			
8 3/4" REED YT3  7000  7100			
8 <sup>3</sup> / <sub>4</sub> ′ REED YT3  7200  7300			
YT3  7400  REED HF 778			