

- 6931-6931.5 Shale: mottled, brown to light grey, with some worm burrows down 4" from top. Top of unit shows evidence of worm activity and slump structure.
- 6931.5-6935.5 Sandstone: light grey with very thin laminae of medium dark grey shale, wavy, irregular bedding.
- 6935.5-6948.5 Sandstone: as above, laminae are numerous, 40% of total, some thin beds of shale 1" - 2" in thickness.
- 6949-6954 Sandstone: as above 6935.5-6948.5. Base has sharp, even contact with shale bed.
- 6948.5-6949 Sandstone: light brown, with occasional thin discontinuous shale lenses. Possible ripple marks.
- 6954-6954.3 Sandstone: as above with no shale laminae.
- 6954.3-6960 Sandstone: as above 6935-6948.5
- 6930-6931 Shale: medium grey, silty, trace micaceous, with irregular patches and laminae of Sandstone, brown-grey, very fine, sub-angular, fairly well sorted, non calcareous, cemented with clay (15%), at base ( $\frac{1}{2}$ " band containing pebble size quartz.
- 6931-6931.5 Shale: mottled, light brown to medium dark grey to light grey, silty, with microscopic, discontinuous, laminae of carbonaceous material, worm burrows filled with sandstone.
- 6931.5-6935.5 Sandstone: light grey, with occasional thin laminae (irregular) of carbonaceous material, with clay nodules associated with shale laminae (few shale laminae light brown).
- 6935.5-6948.5 Sandstone: light grey, as above.
- 6948.5-6949 Sandstone: as above with scattered pebble size quartz grains and thin laminae shale. Fluorescent, gold, probably 2 cycles of graded bedding, in sharp contact with thin shale bed at top.
- 6949-6954 Sandstone: and shale laminae as above 6935.5-6948.5
- 6954-6954.3 Sandstone: light grey, very fine, silty, with flecks of carbonaceous material, sub-angular to sub-rounded, fair sorting, cemented with white clay material.
- 6954.3-6960 Sandstone: with laminae and thin shale bands.

Core Analysis

Sample No.	Depth Feet	Permeability Millidarcys Horizontal	Porosity %	Total Water %
1	6933	152	24.6	90 Pore
2	6934	161	26.9	82
3	6949	.1	3.1	60

## Macroscopic

- Core No. 14: 7419-7448' Cut 29' Rec. 24'
- 7419-7422 Coal: black, conchoidal fracture.
- 7422-7423 Shale and Siltstone.
- 7423-7440 Shale: light grey to medium dark grey, with thin laminae and occasional thin bands of siltstone, discontinuous, wavy bedding. Some evidence of worm activity.
- 7440-7442 Siltstone and Shale: as above, much less siltstone, with thin discontinuous plates of siltstone, slight to no apparent dip, (very fine grained sandstone).

Cont'd...