

9430'- 9431.5' Shale; dark grey to black, fissile, hard, carbonaceous and micaceous.

9431.5'-9433' Sandstone; grey-white, fine grained, hard with shaly streaks.

9433'-9438' Shale; dark grey to black, fissile, hard, carbonaceous with sandstone interbeds.

9438'-9440.5' Sandstone; very fine grained, silty, clay matrix, shaly and coaly streaks.

9440.5'-9442' Shale; as above.

9442'-9448' Sandstone; clay matrix, fine to medium, sub-angular to sub-rounded grains, micaceous, carbonaceous, with minor shale and coaly streaks.

9448'-9460' Interbedded sandstone, siltstone and shale. The sandstone is light grey-white, very fine to fine grained, angular to sub-rounded.

9460'-9464' Shale; dark grey, fissile, with minor interbedded thin sandstone.

9464'-9467' Thinly interbedded sandstone and shale.

9467'-9477' Sandstone; light grey, very fine to fine, silty, clay matrix, very slightly calcareous, sub-angular, fair to well sorted, carbonaceous. Gold brown fluorescence, slow weak pale yellow cut fluorescence, blue with white fluorescence cut residue, slight odor,

<u>Depth (ft)</u>	<u>Porosity (%)</u>	<u>Permeability (md)</u>	<u>% Gas Bulk Vol.</u>
9472'	18.5	1.	7.4

9477'-9479' Interbedded sandstone and shale.

9479'-9486.5' Shale; with some thin sandstone and siltstone laminae.

9486.5'-9504.5' Sandstone; with shale laminae, silty in part, very fine to medium grained, rare quartz overgrowth carbonaceous, clay and fine quartz grains matrix. Gold brown fluorescence, slow weak cut, fair odor.

<u>Depth (ft)</u>	<u>Porosity (%)</u>	<u>Permeability (md)</u>	<u>% Gas Bulk Vol.</u>
9492'	13.2	1:	4.5

9504.5'-9509' Thinly interbedded sandstone and shale.

9509'-9518' Shale with sandstone interbedded.

9518'-9521' Shale, dark grey, fissile.