

ESSO BASS-2

CUTTING SAMPLE DESCRIPTION

850-1300		<u>Bryozoan biomicrudite</u> , skeletal coarse calcarenite to fine calcirudite or coquina consisting essentially of articulated fossil debris 2-4 mm - bryozoa principally with minor pelycopods and rare foraminifera Trace grey-green slightly glauconitic, calcareous, argillaceous matrix.
1300-1550		<u>Skeletal calcirudite</u> ; as above, with calcareous sparse glauconite, very finely sandy argillaceous matrix. Calcirudite somewhat coarser than as above.
1550-1900		<u>Sandstone</u> : grey-white quartzose, calcareous, silty, fine to very fine grained, sub angular to sub rounded, fairly well sorted, with abundant white clay matrix. Poor porosity and permeability, trace glauconite, trace very fine carbonaceous grains and abundant unsorted calcareous fossil debris
1900-2100		<u>Sandstone</u> : as above, but with probably interbedded light grey-green fossiliferous and glauconitic marl. Marl becomes more abundant towards base of section, say last 100' of hole. Only evidence for marl is that samples become very muddy.
2100-2170	60-70%	<u>Coarse calcarenite</u> : light grey, fossiliferous fragments, bryozoan, echinoid, foraminifera, occasional pyritized fossil fragments, very sparse quartz sand grains, glauconite band, pyrite.
	30-40%	<u>Marl</u> : or light grey, very calcareous soft mudstone.
2170-2320	80%	<u>Marl</u> : light grey and light grey green, very fossiliferous fossils as above, glauconite and pyrite as above.
	20%	<u>Calcarenite</u> : as above
2320-2380	90%	<u>Marl</u> : as above
	10%	<u>Calcarenite</u> : as above
2380-2470	100%	<u>Marl</u> : as above
2470-2970	100%	<u>Mudstone</u> : (very similar to marl as above, slightly more lithified), light grey green and light olive grey, and light grey, calcareous, glauconitic, soft and fossiliferous, (fossils, bryozoa, echinoids, pelecypods (lamellibranchs) and forams.
2970-2990		<u>Mudstone</u> : as above and very abundant grains of glauconite, fine to coarse size range, much pyrite.
2990-3025		No sample.
3025-3055		Core No. 2.
3025-3048		<u>Silty Sandstone</u> : light olive grey, very fine-medium grained, very argillaceous, calcareous, soft, friable, very glauconitic, abundant very fine-medium rounded grains of glauconite. Much pyrite, as fine euhedral crystals and pyritised fossil fragments and worm impressions; largely calcareous grains and minor quartzose material fossiliferous; including foraminifera, bryozoa, and pelecypods. Becomes more argillaceous and silty towards bottom of interval; thin brown-grey argillaceous lenses to ¼" thick parallel to bedding. No apparent dip. No effective porosity or permeability.