

PD83 PT-01

<u>From (m)</u>	<u>To (m)</u>	
0	2.0	Clay, orange.brown, ex mudstone/shale
2.0	8.2	Shale, khaki (oxidised) and pale grey
8.2	9.2	Mudstone, green (kaolin > illite)
9.2	11.0	Shale, grey
11.0	14.8	Siltstone, grey/green, and silty shale
14.8	16.8	Arenite, lithic (variably sub lithic), fine to medium grain size
16.8	24.6	Mudstone/shale, grey, with plant fossils, dark grey and carbonaceous mudstones at 17.6-18.0m, 18.7 - 19.2m, 19.8-20.2m, 22.2-22.6m, and 24.0-24.6m
24.6	27.8	Siltstone, transitional to lithic arenite at 27.0m
27.8	33.6	Arenite, lithic, medium grained, with grey mudstone pellet conglomerate 31.6-33.6m
33.6	34.8	Mudstone, grey, interbedded with minor siltstone
34.8	39.8	Arenite? lithic, medium grained, siltstone interbeds
39.8	41.6	Mudstone, carbonaceous
41.6	41.8	Coal, heavy dull (RD \approx 1.95)
41.8	42.0	Claystone, pale grey/brown, feldspathic (?tuffaceous)
42.0	42.2	Coal, heavy dull (RD \approx 1.95)
42.2	42.4	Mudstone, carbonaceous
42.4	44.0	Mudstone, grey
44.0	46.0	Arenite, ?lithic, medium/coarse grained variably silty, and with feldspathic/kaolinitic matrix
46.0	53.0	Arenite, ?lithic, coarse grained, possibly similar to 44.0-46.0 from 50.6-53.0m EOH

Comments

- (i) Base of oxidation \approx 3m
- (ii) Coal seams intersected as follows;
Minor: 41.6-41.8m, and 42.0-42.2m
- (iii) The sequence encountered on the hole is generally lutite rich, but differing from the typical Coal Measures Sequence in having green mudstone, shales, more siltstone and a virtual absence of coal seams.
Contamination of samples was probably > 50% and this with poor sample return, may have prevented recognition of the true sandstone types.