

PD83 KP - 10

<u>From (m)</u>	<u>To (m)</u>	
0	2.0	Alluvium, sandy loam (ex lithic arenite)
2.0	13.0	Arenite, lithic, medium grain size
13.0	13.30	Coal (RD \approx 1.52)
13.30	14.78	Mudstone, grey \pm carbonaceous
14.78	15.87	Coal (RD \approx 1.53)
15.87	17.02	Mudstone, grey/brown \pm shale
17.02	17.44	Mudstone, carbonaceous
17.44	17.60	Mudstone, grey
17.60	20.00	Siltstone
20.00	24.20	Arenite, lithic, medium grained with carbonaceous mudstone pellet conglomerate
24.20	30.40	Arenite, lithic, medium grained; zone of relatively high porosity 28.8 - 30.40m may reflect kaolin rich nature of mud (?clay)stone pellets in conglomerate seen in cuttings.
30.40	30.63	Mudstone, grey
30.63	30.88	Mudstone, carbonaceous,
30.88	31.24	Coal, heavy dull (RD \approx 1.90)
31.24	33.40	Mudstone, grey
33.40	40.20	Arenite, lithic, fine to medium grained slightly silicified (baked)
40.20	41.00	Mudstone, grey/cream, porcellanous, spotted
41.00	43.20	Siltstone
43.20	47.20	Mudstone, grey, dehydration of clay minerals (due to thermal metamorphism) from \approx 45.4 - 47.2m
47.20	47.50	Dolerite, chilled margin and fine to medium grained clasts.

EOH

Comments

- (i) Base of oxidation \approx 6.5m; (note water table at \approx 13m)
- (ii) Coal seams intersected as follows
Major = 14.78 - 15.87m
Minor = 13.00 - 13.30m, 30.88 - 31.24m
- (iii) Thermal metamorphism effects in overlying sediments to the dolerite, are apparently non uniform, e.g. silicification of arenite, spotting of mudstones)