

DRILLHOLE 0-02

<u>Depth (m)</u>	<u>Lithologic Description</u>
0.00 - 1.75	<u>Alluvium</u> : Red-brown silty loamy soil, slightly ferruginous.
1.75 - 5.00	<u>Arkosic Sandstone</u> : Red-brown-yellow, fine-medium grained, moderately sorted, well cemented, dominantly feldspathic matrix.
5.00 - 5.50	As above with <u>Carbonaceous Mudstone</u>
5.50 - 5.75	<u>Carbonaceous Clay</u> : Dark grey, soft, sticky, waxy, grading to carbonaceous shale; minor traces of inferior coal: dull.
5.75 - 7.15	<u>Core Loss</u>
7.15 - 7.63	<u>Carbonaceous Mudstone</u> : Dark grey to black; grading to inferior coal in part, carbonaceous blebs throughout; minor Dmb lamellae, friable.
7.63 - 7.70	<u>Mudstone</u> :
7.70 - 7.94	<u>Inferior Coal</u> : With minor carbonaceous shale lamellae; occasionally Dmb
7.94 - 8.01	<u>Mudstone</u>
8.01 - 8.70	<u>Coal</u> : Dmb, Bd, friable, occasionally calcite.
8.70 - 8.96	<u>Carbonaceous Mudstone</u>
8.96 - 9.35	<u>Mudstone</u> : Light grey to occasionally dark grey, slightly carbonaceous.
9.35 - 12.10	<u>Sandstone</u> : Light grey, medium-coarse grained, well sorted and cemented, sucrosic texture, fair porosity, dominantly feldspathic matrix, slightly chloritic, micaceous in part.
12.10 - 12.37	<u>Mudstone</u> : Light grey, indurated in part.
12.37 - 15.37	<u>Sandstone</u> : Light grey, medium-coarse grained, sucrosic texture, fair porosity, dominantly feldspathic matrix, occasional carbonaceous blebs, chloritic, slightly micaceous, kaolinitic at random, with increasing carbonaceous stringers towards base of unit.
15.37 - 21.37	<u>Sandstone</u> : Light grey, medium grained, well sorted and cemented, partly sucrosic texture, dominantly feldspathic matrix, slightly micaceous, occasionally chloritic, kaolinitic in part.
21.37 - 24.37	<u>Sandstone</u> : Light grey, medium grained, well sorted and cemented, dominantly feldspathic matrix, slightly chloritic, micaceous throughout, occasional carbonaceous wisps.

<u>Depth (m)</u>	<u>Lithologic Description</u>
24.37 - 27.33	<u>Sandstone</u> : Light grey to grey in part, medium grained to occasionally coarse grained, sucrosic texture in part, predominantly feldspathic, micaceous and chloritic in part; with occasional mudstone chips, carbonaceous wisps and minor coal stringers increasing towards base of unit.
27.33 - 27.37	<u>Mudstone</u> : Light grey to dark grey, slightly carbonaceous.
27.37 - 27.42	<u>Mudstone</u> : Light grey to dark grey, slickensided.
27.42 - 31.07	<u>Sandstone</u> : Light grey, fine-medium grained, well sorted and cemented, dominantly feldspathic matrix, slightly micaceous, mudstone chips, slightly chloritic, occasional carbonaceous bands; with mudstone intercalations between 28.38 - 28.51m: moderately soft, blocky, indurated in part.
31.07 - 31.49	<u>Coal</u> : Dmb., minor carbonaceous blebs, calcite veinlets.
31.49 - 31.60	<u>Mudstone</u> : Light grey to dark grey, partly indurated, carbonaceous throughout.
31.60 - 31.76	<u>Coal</u> : Dmb; calcite veinlets.
31.76 - 32.61	<u>Mudstone</u> : Light grey to occasionally dark grey, indurated, carbonaceous bands; with coal: Dmb, lamellae towards centre of this unit, 3.5cm thick.
32.61 - 32.98	<u>Mudstone</u> : Light grey, moderately soft, blocky, carbonaceous wisps throughout.
32.98 - 33.31	<u>Coal</u> : Dull; contains minor bright bands and calcite veinlets.
33.31 - 33.34	<u>Mudstone</u> : As above
33.34 - 33.45	<u>Coal</u> : Inferior; grading to carbonaceous shale in part.
33.45 - 33.62	<u>Mudstone</u> : As above

<u>Depth (metres)</u>	<u>Lithologic Descriptions</u>
33.62 - 34.20	<u>Coal</u> : Dull; contains some bright bands and calcite veins; grading to inferior coal in part.
34.20 - 34.35	<u>Mudstone</u> : Light to dark grey, pelletoidal.
34.35 - 34.57	<u>Coal</u> : Dull, inferior; contains some bright bands and calcite veinlets.
34.57 - 34.68	<u>Mudstone</u> : As above but carbonaceous towards base.
34.68 - 35.18	<u>Coal</u> : Dull; contains some bright bands.
35.18 - 35.26	<u>Mudstone</u> : Dark grey, carbonaceous, pelletoidal.
35.26 - 35.51	<u>Coal</u> : As above.
35.51 - 35.60	<u>Mudstone</u> : Dark grey, carbonaceous.
35.60 - 36.30	<u>Coal</u> : Bright; contains some dull bands
36.30 - 36.33	<u>Mudstone</u> : As above.
36.33 - 36.62	<u>Core Loss</u>
36.62 - 36.86	<u>Carbonaceous Mudstone</u> : Grading to inferior coal in part.
36.86 - 37.37	<u>Coal</u> : Dull; contains some bright bands.
37.37 - 39.48	<u>Mudstone</u> : Light grey, moderately firm, blocky, indurated.
39.48 - 39.62	<u>Core Loss</u>
39.62 - 39.88	<u>Mudstone</u> : Dark grey, soft, waxy, splintery, carbonaceous, slightly micaceous.
39.88 - 40.13	<u>Core Loss</u> : Probably coal.
40.13 - 40.36	<u>Mudstone</u> : Light to dark grey, slightly micaceous, contains carbonaceous blebs, some coal, plant vestiges along bedding planes, slump features present.
40.36 - 40.40	<u>Coal</u> : As above

<u>Depth (metres)</u>	<u>Lithologic Descriptions</u>
40.40 - 41.36	<u>Mudstone</u> : As above
41.36 - 41.49	<u>Mudstone</u> : Light grey, indurated.
41.49 - 42.49	<u>Sandstone</u> : Light grey to grey, fine grained, moderately sorted, well cemented, feldspathic matrix, micaceous, contains some carbonaceous bands; winnowing features present; grading to sandy siltstone in part.
42.49 - 42.63	<u>Mudstone</u> : Light grey, moderately hard, dominantly feldspathic matrix, slightly indurated and micaceous contains some carbonaceous blebs; winnowing features present.
42.63 - 44.63	<u>Mudstone</u> : Light grey, moderately hard, blocky, indurated, slightly argillaceous, carbonaceous wisps, slickensided, with slump features.
44.63 - 45.63	<u>Sandstone</u> : Light grey, fine grained, dominantly feldspathic matrix, slightly lithic and micaceous, contains some carbonaceous blebs; winnowing features present.
45.63 - 47.00	<u>Sandstone</u> : Light grey to grey, fine grained, moderately sorted, well cemented, dominantly feldspathic matrix, slightly lithic and micaceous; contains carbonaceous bands, bioturbated in part.
47.00 - 48.63	<u>Arkosic Sandstone</u> : Light grey, medium grained, sometimes coarse, well sorted, well cemented, dominantly feldspathic matrix, slightly lithic, chloritic and kaolinitic.
48.63 T.D.	