

<u>Depth (m)</u>	<u>Lithologic Description</u>
0.00 - 4.00	<u>Alluvium/Colluvium</u> : Red-brown, silty to loamy soil, argillaceous matrix; with ubiquitous dolerite debris.
4.00 - 5.10	<u>Sandstone</u> : Yellow-brown, medium grained; dominantly feldspathic matrix; micaceous throughout (10%).
5.10 - 9.70	<u>Sandstone</u> : Arkosic, yellow-brown, hard, medium grained; moderately sorted and well cemented; dominantly feldspathic matrix, micaceous throughout, partly greywacke, with random carbonaceous wisps.
9.70 - 10.40	<u>Mudstone</u> : Yellow-brown, hard, blocky, indurated, ferruginous throughout, with plant vestiges along bedding plane, carbonaceous bending in centre of unit; approximate bedding dip of 3°.
10.40 - 11.86	<u>Sandstone</u> : As above; with carbonaceous wisps throughout, greywacke, slightly micaceous.
11.86 - 14.86	<u>Arkosic Sandstone</u> : Yellow-brown to light grey near top of unit; otherwise grey and occasionally white; medium grained, moderately sorted, well cemented, dominantly feldspathic matrix, partly greywacke and micaceous; with occasional carbonaceous wisps.
14.86 - 16.81	<u>Sandstone</u> : As above; arkosic, medium to coarse grained.
16.81 - 16.97	<u>Mudstone</u> : Light grey to dark grey, blocky, hard, indurated; with plant remains and carbonaceous blebs throughout.
16.97 - 17.59	<u>Arkosic Sandstone</u> : Light grey to yellow brown, coarse grained, moderately sorted, well cemented; partly greywacke, dominantly feldspathic matrix; with carbonaceous blebs towards base of unit.
17.59 - 20.67	<u>Arkosic Sandstone</u> : Yellow-brown, medium to coarse grained, slightly pebbly at times, moderately sorted, well cemented, dominantly feldspathic matrix, greywacke, micaceous throughout, with occasional carbonaceous specs and mudstone pellets.
20.67 - 23.41	<u>Arkosic Sandstone</u> : As above; fine-medium grained, becoming fine at top of section.
23.41 - 23.67	<u>Core Loss</u>
23.67 - 26.62	<u>Arkosic Sandstone</u> : Light grey to yellow brown, medium-coarse grained, moderately sorted, well cemented, dominantly feldspathic matrix, micaceous, slightly chloritic; with minor coal wisps and carbonaceous specs.

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26.62 - 29.70	<u>Arkosic Sandstone</u> : As above; well sorted, sucrosic texture, chloritic in part towards base of unit; with minor blebs of inferior coal.
29.70 - 29.83	<u>Arkosic Sandstone</u> : As above.
29.83 - 29.90	<u>Carbonaceous Mudstone</u> : Grading to inferior coal in places.
29.90 - 30.66	<u>Sandstone</u> : Light grey, medium-fine grained, well sorted and cemented, feldspathic matrix.
30.66 - 31.69	<u>Mudstone</u> : Light grey, blocky, hard, indurated, slightly slickensided.
31.69 - 31.70	<u>Inferior Coal</u> : Lamellae, dull.
31.70 - 32.27	<u>Mudstone</u> : Light grey and occasionally dark grey, blocky, micaceous throughout: with occasional carbonaceous blebs.
32.27 - 32.52	<u>Mudstone</u> : Dark grey, dominantly carbonaceous; with occasional inferior coal blebs, dull; grading to shale: blue, sub-fissile.
32.52 - 32.80	<u>Sandstone</u> : Light to dark grey, fine grained, moderately sorted, well cemented, feldspathic, lithic, carbonaceous blebs, bioturbated in part.
32.80 - 33.54	<u>Mudstone</u> : Light grey, hard, blocky, indurated, partly micaceous.
33.54 - 34.30	<u>Sandstone</u> : Light grey, fine-medium grained, well sorted, well cemented, feldspathic matrix, micaceous; with sporadic carbonaceous specs.
34.30 - 34.86	<u>Mudstone</u> : As above.
34.86 - 35.42	<u>Mudstone</u> : Light grey, hard, blocky, indurated carbonaceous bands in part, grading to siltstone in part.
35.42 - 35.70	<u>Coal</u> : Dull with minor bright bands; carbonaceous blebs in places, grading to carbonaceous shale in part; calcite veinlets.
35.70 - 36.50	<u>Mudstone</u> : As above
36.50 - 37.20	<u>Siltstone</u> : Light grey to dark grey, moderately sorted, well cemented, slightly micaceous; with abundant carbonaceous wisps; bedding dip of 3° (approx).
37.20 - 37.75	<u>Arkosic Sandstone</u> : Light grey to yellow-brown, feldspathic matrix.
37.75 - 37.89	<u>Mudstone</u> : Light grey to grey, blocky, hard, indurated, slightly carbonaceous, slightly micaceous, grading to sandstone towards base of unit.

Depth (m)Lithologic Description

37.89 - 38.80	<u>Arkosic Sandstone</u> : Yellow-brown, medium-coarse grained, moderately sorted, well cemented, sucrosic texture, slightly micaceous, partly greywacke, feldspathic matrix; carbonaceous wisps throughout.
38.80 - 40.26	<u>Arkosic Sandstone</u> : As above
40.26 - 41.86	<u>Arkosic Sandstone</u> : As above, light grey to occasionally dark grey, slightly chloritic; with carbonaceous banding in part towards base of unit.
41.86 - 44.90	<u>Sandstone</u> : Light grey, medium-coarse grained, moderately sorted, well cemented, partly greywacke, sucrosic texture, dominantly feldspathic matrix; with carbonaceous blebs throughout and carbonaceous banding in part.
44.90 - 47.93	<u>Sandstone</u> : As above; occasionally dark grey, slightly argillaceous.
47.93 - 50.99	<u>Sandstone</u> : As above; medium grained, carbonaceous banding and wisps in part, slightly micaceous and chloritic in part; kaolonitic traces.
50.99 - 53.99	<u>Sandstone</u> : As above but non-micaceous.
53.99 - 56.99	<u>Sandstone</u> : Light grey, fine-medium grained, well sorted, well cemented, dominantly feldspathic matrix, slightly micaceous, slightly greywacke with carbonaceous wisps.
56.99 - 59.99	<u>Sandstone</u> : As above but chloritic in part and with carbonaceous blebs in part.
59.99 - 63.07	<u>Sandstone</u> : As above but moderately sorted with occasional carbonaceous wisps.
63.07 - 64.57	<u>Sandstone</u> : As above, with increasing carbonaceous blebs.
64.57 - 65.17	<u>Coal</u> : Dull with minor bright bands.
65.17 - 65.19	<u>Sandstone</u> : Feldspathic matrix with mudstone interlamination.
65.19 - 65.23	<u>Coal</u> : Inferior and occasionally dull with minor bright bands.
65.23 - 65.30	<u>Coal</u> : Inferior coal grading to carbonaceous mudstone.
65.30 - 65.42	<u>Carbonaceous Mudstone</u>

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65.42 - 65.80	<u>Sandstone</u> : Light grey, occasionally dark grey, medium grained, moderately sorted, well cemented, feldspathic matrix, carbonaceous blebs throughout, large mudstone chips, minor calcite in part.
65.80 - 66.10	<u>Mudstone</u> : Light grey, hard, blocky, indurated, carbonaceous wisps.
66.10 - 66.92	<u>Mudstone</u> : Dark grey, hard, blocky, indurated, carbonaceous blebs throughout, slickensided, grading to inferior coal at random.
66.92 - 68.32	<u>Siltstone</u> : Light grey to dark grey, moderately sorted, well cemented, feldspathic matrix, carbonaceous banding throughout with minor mudstone interlamination.
68.32 - 69.16	<u>Sandy Siltstone</u> : Light grey to dark grey, moderately sorted, well cemented, slightly bioturbated, feldspathic; with carbonaceous bands.
69.16 - 72.16	<u>Sandstone</u> : Light grey, fine-medium grained, well sorted, well cemented; dominantly feldspathic matrix, slightly micaceous, chloritic in part; with carbonaceous wisps throughout.
72.16 - 75.16	<u>Sandstone</u> : Light grey, medium-coarse grained, well sorted, well cemented, sucrosic texture, fair porosity; slightly chloritic, partly micaceous, dominantly feldspathic, with occasional carbonaceous blebs.
75.16 - 78.16	<u>Sandstone</u> : Light grey, medium grained, well sorted, well cemented, dominantly feldspathic matrix, slightly chloritic, slightly micaceous; carbonaceous at random towards the base of this unit.
78.16 - 81.56	<u>Sandstone</u> : Light grey to occasionally grey, medium grained, moderately sorted, well cemented, partly greywacke, slightly chloritic, partly micaceous and calcite; with minor carbonaceous wisps and mudstone chips.
81.56 - 81.66	<u>Coal</u> : Dull with minor bright bands, grading to inferior coal at times.
81.66 - 81.96	<u>Mudstone</u> : Carbonaceous.
81.96 - 82.48	<u>Inferior Coal</u> : With minor bright lamellae and bands carbonaceous blebs throughout with 2cm of carbonaceous mudstone towards base of this unit.
82.48 - 83.32	<u>Coal</u> : Dull with minor bright bands, becoming inferior coal in places with occasional carbonaceous blebs, calcite veinlets in parts.
83.32 - 83.37	<u>Carbonaceous Mudstone</u> : grading to inferior coal

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83.37 - 83.77	<u>Coal</u> : Dull with minor bright bands; carbonaceous blebs in places.
83.77 - 83.85	<u>Core Loss</u>
83.85 - 84.75	<u>Mudstone</u> : Light grey to dark grey, blocky, indurated, partly pelletoid; with carbonaceous blebs throughout. grading to sandy siltstone towards base of unit.
84.75 - 85.16	<u>Sandy Siltstone</u> : Grey, feldspathic matrix, partly carbonaceous and slightly bioturbated, grading to sandstone in parts.
85.16 - 86.85	<u>Mudstone</u> : Grey to dark grey, hard, partly pelletoid, indurated, occasionally slickensided, carbonaceous, with minor inferior coal lamellae towards base of unit.
86.85 - 87.55	<u>Mudstone</u> : Light grey, blocky, indurated, carbonaceous towards base of unit.
87.55 - 88.57	<u>Coal</u> : Dull with minor bright bands, friable, slickensided; with random calcite veinlets.
88.57 - 89.60	<u>Mudstone</u> : As above, carbonaceous throughout.
89.60 - 89.78	<u>Inferior Coal</u> : grading to carbonaceous mudstone with minor bright bands towards base of unit, slickensided.
89.78 - 89.95	?
89.95 - 90.92	<u>Mudstone</u> : Light grey, becoming dark grey towards base of unit, blocky, indurated, carbonaceous throughout and slightly bioturbated.
90.92 - 91.16	<u>Siltstone</u> : Light grey, well sorted and cemented, feldspathic.
91.16 - 96.06	<u>Sandstone</u> : Light grey, fine-medium grained, well sorted and cemented, dominantly feldspathic matrix, slightly micaceous and chloritic with slightly sucrosic texture.
96.06 - 99.06	<u>Sandstone</u> : As above but medium - coarse grained, with occasional carbonaceous wisps and fair porosity.
99.06 - 101.54	<u>Sandstone</u> : Light grey to occasionally dark grey, moderately sorted, fine to medium grained, well cemented, feldspathic matrix and slightly micaceous; with carbonaceous banding.
101.54 - 102.03	<u>Mudstone</u> : Light grey to dark grey, blocky, hard, indurated, slightly bioturbated, carbonaceous throughout; with calcite veinlets.

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102.03 - 102.56	<u>Mudstone</u> : Dark grey, blocky, carbonaceous.
102.56 - 102.81	<u>Coal</u> : Dull with minor bright bands grading to inferior coal.
102.81 - 104.76	<u>Carbonaceous Mudstone</u> : With minor dull and bright bands grading to inferior coal.
102.96 - 103.04	<u>Coal</u> : Dull with minor bright bands grading to inferior coal.
103.04 - 105.11	<u>Mudstone</u> : Light grey to dark grey, slightly micaceous, indurated, blocky and calcite veinlets; with carbonaceous lamellae and plant vestige throughout.
105.11 - 105.16	<u>Clod</u> : Grading to carbonaceous shale.
105.16 - 106.34	<u>Mudstone</u> : Light to dark grey, blocky, indurated, slickensided, bioturbated and carbonaceous; grading to inferior coal at top of unit.
106.34 - 107.11	<u>Coal</u> : Dull with minor bright bands and sporadic carbonaceous blebs; with small mudstone band between 106.92 - 106.93.
107.11 - 108.13	<u>Mudstone</u> : Light grey, becoming dark grey at top of unit, blocky, indurated, carbonaceous at times.
108.13 - 108.31	<u>Mudstone</u> : As above with carbonaceous bands.
108.31 - 109.51	<u>Sandstone</u> : Light grey, fine to medium grained, moderately sorted, well cemented, feldspathic matrix, slightly micaceous; with carbonaceous stringers throughout and minor mudstone laminations.
109.51 - 110.21	<u>Mudstone</u> : Light grey to dark grey, hard, blocky, indurated and partly carbonaceous.
110.21 - 110.51	<u>Coal</u> : Dull
110.51 - 111.09	<u>Mudstone</u> : Dark grey, becoming light grey towards base of unit, blocky, indurated and carbonaceous,
111.09 - 111.13	<u>Core Loss</u>
111.13 - 112.13	<u>Mudstone</u> : Light grey, hard, blocky, indurated, grading to sandy siltstone towards base of unit.
112.13 - 114.23	<u>Sandstone</u> : Light grey, medium grained, well sorted and cemented, micaceous in places, feldspathic matrix; with occasional carbonaceous stringers.

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- 114.23 - 117.27 Sandstone: Light grey, medium-coarse grained in places, moderately sorted, well cemented, sucrosic texture towards base of unit, fair porosity, partly greywacke, slightly micaceous, feldspathic matrix; with minor calcite veinlets and sporadic carbonaceous stringers.
- 117.27 - 120.31 Sandstone: Light grey, medium grained, well sorted and cemented, fair porosity, slightly micaceous, feldspathic matrix, sucrosic texture, argillaceous towards base of unit.
- 120.31 - 123.45 Sandstone: As above but chloritic in places, moderately sorted and medium to coarse grained.
- 123.45 - 126.56 Sandstone: As above but medium grained, slightly carbonaceous, and with occasional mudstone chips.
- 126.56 - 129.63 Sandstone: Light grey, fine-medium grained, well sorted and cemented, slightly greywacke and micaceous, chloritic in places; with slightly sucrosic texture and dominantly feldspathic matrix.
- 129.63 - 132.78 Sandstone: As above, medium grained, moderately sorted; with carbonaceous stringers and blebs.
- 132.78 - 138.88 Sandstone: As above but without carbonaceous stringers.
- 138.88 - 139.58 Sandstone: Light grey-dark-grey, fine grained, moderately sorted, well cemented, bioturbated, carbonaceous throughout, with minor carbonaceous shale laminations towards the base of this unit, dominantly feldspathic matrix.
- 139.58 - 141.66 Mudstone: Light grey, dark grey, blocky, slightly micaceous, indurated, partly bioturbated, with fine grained-sandstone interlamination towards base of this unit.
- 141.66 - 141.88 Core Loss
- 141.88 - 143.08 Mudstone: As above, moderately sorted, well cemented, light-grey, feldspathic matrix, occasional carbonaceous wisp and banding, slightly bioturbated, occasional calcite veinlets; grading to siltstone.
- 143.08 - 144.95 Sandstone: Light grey to dark grey, fine-medium grained, moderately sorted, well cemented, feldspathic matrix, partly bioturbated carbonaceous bands throughout, occasional carbonaceous blebs; with minor mudstone interlamination.
- 144.95 - 145.76 Sandstone: As above; without mudstone intercalations, minor calcite veinlets.

Depth (m)Lithologic Description

145.76 - 146.26

Siltstone: Grey to dark grey, moderately sorted, well cemented, feldspathic matrix, calcite veinlets, carbonaceous banding throughout.

146.26 - 146.69

Mudstone: Dark grey, blocky, indurated, hard, predominantly carbonaceous towards base of unit; subfissile, grading to clod in places.

146.69 - 147.95 T.D.

Core Loss

147.95 T.D.