

DRILLHOLE H-05

<u>Depth (m)</u>	<u>Lithological Description</u>
0.00 - 1.00	<u>Soil</u> : Red-brown, sandy, loamy, slightly ferruginous, clayey in part, grading to underlying unit.
1.00 - 3.70	<u>Sandstone</u> : Red-brown to yellow, well sorted and cemented, medium to coarse grained, lithic, dominantly feldspathic matrix, slightly micaceous.
3.70 - 5.00	<u>Core Loss</u>
5.00 - 6.00	<u>Sandstone</u> : Red-brown, medium-coarse grained, well sorted and cemented, dominantly feldspathic matrix, lithic, partly micaceous.
6.00 - 8.45	<u>Mudstone</u> : Red-brown, moderately soft, sub-fissile in places, blocky, micaceous, ferruginous throughout.
8.45 - 9.00	<u>Core Loss</u>
9.00 - 12.00	* <u>Mudstone</u> : Light grey, occasionally red-brown, moderately soft, blocky, micaceous throughout.
12.00 - 14.03	<u>Sandstone</u> : Light grey to dark grey, fine to medium grained, occasionally coarse grained at base of unit, moderately well sorted and cemented, carbonaceous banding, micaceous, plant impressions along bedding plane.
14.03 - 15.00	<u>Core Loss</u>
15.00 - 18.00	<u>Sandstone</u> : Light grey, medium to coarse grained, well sorted and cemented, sucrosic texture, dominantly feldspathic matrix, micaceous throughout, chloritic in part, carbonaceous bands.
18.00 - 19.85	<u>Sandstone</u> : As above; poorly cemented.
19.85 - 21.00	<u>Core Loss</u>
21.00 - 23.90	<u>Sandstone</u> : Light grey, medium to coarse grained, well sorted and cemented, sucrosic texture, dominantly feldspathic matrix, partly micaceous.
23.90 - 24.00	<u>Core Loss</u>
24.00 - 27.00	<u>Sandstone</u> : Light grey, medium to coarse grained, well sorted, moderately cemented, sucrosic texture, predominantly feldspathic matrix, micaceous.

* Core was stuck in inner tube barrel. Determination of lithologic section based on shattered core.

<u>Depth (m)</u>	<u>Lithologic Description</u>
27.00 - 30.62	<u>Sandstone</u> : As above; carbonaceous in places.
30.62 - 30.70	<u>Mudstone</u> : Light grey, carbonaceous, partly pelletoid.
30.70 - 30.77	<u>Carbonaceous Mudstone</u> : Indurated, calcite veinlets.
30.77 - 30.89	<u>Mudstone</u> : Light grey, hard, indurated, carbonaceous blebs throughout.
30.89 - 31.04	<u>Sandstone</u> : Light grey, well sorted and cemented, feldspathic, micaceous.
31.04 - 31.80	<u>Mudstone</u> : Light grey, hard, soft at base of unit, indurated at top of unit, micaceous throughout.
31.80 - 32.09	<u>Core Loss</u>
32.09 - 33.34	<u>Mudstone</u> : Light grey, moderately hard, blocky, indurated, micaceous throughout.
33.34 - 33.54	<u>Siltstone</u> : Light grey, well cemented, feldspathic, indurated micaceous.
33.54 - 34.98	<u>Mudstone</u> : Dark grey, moderately hard, indurated, carbonaceous, micaceous throughout.
34.98 - 35.49	<u>Sandstone</u> : Light grey, well sorted and cemented, feldspathic, carbonaceous bands, occasionally bioturbated.
35.49 - 36.04	<u>Mudstone</u> : Grey to dark grey, hard, indurated, slightly micaceous, plant impressions, carbonaceous.
36.04 - 39.04	<u>Mudstone</u> : Light grey to grey, moderately hard, blocky, occasionally soft, indurated, micaceous, plant impressions along bedding plane.
39.04 - 42.05	<u>Mudstone</u> : Light grey to grey, moderately hard, blocky, sub-fissile, partly indurated, carbonaceous bands and blebs throughout, micaceous, plant impressions, grading to siltstone in places.
42.05 - 42.10	<u>Coal</u> : Dull with minor bright bands with occasional Db lamellae, carbonaceous blebs in places, calcitic.
42.10 - 43.36	<u>Mudstone</u> : Light grey to grey, carbonaceous, moderately hard, blocky, occasionally sub-fissile, indurated, plant impressions along bedding plane.

<u>Depth (m)</u>	<u>Lithological Description</u>
43.36 - 43.53	<u>Carbonaceous Mudstone</u> : Dark grey, hard, brittle, indurated, carbonaceous throughout; grading to inferior coal in places.
43.53 - 45.10	<u>Mudstone</u> : Light grey, moderately hard, indurated, micaceous, occasional carbonaceous bands.
45.10 - 47.30	<u>Mudstone</u> : Light grey, moderately hard, blocky, occasionally sub-fissile, indurated, micaceous, occasional plant impressions; grading to siltstone towards base of unit.
47.30 - 47.88	<u>Sandy Siltstone</u> : Light grey, well cemented, dominantly feldspathic matrix, partly indurated, micaceous; grading to fine grained sandstone in places and towards base of unit.
47.88 - 48.10	<u>Core Loss</u>
48.10 - 48.60	<u>Sandstone</u> : Light grey, fine grained, well sorted, feldspathic matrix, micaceous.
48.60 - 49.08	<u>Carbonaceous Mudstone</u> Dark grey, indurated, calcitic, grading in places to inferior coal: dull.
49.08 - 49.21	<u>Coal</u> : Db, friable.
49.21 - 54.14	<u>Mudstone</u> : Light grey, hard, blocky, indurated, occasionally sub-fissile, carbonaceous bands towards base of unit, plant impressions along bedding plane, micaceous.
54.14 - 55.74	<u>Mudstone</u> : Light grey to dark grey, hard, blocky, indurated, micaceous, carbonaceous banding, grading to siltstone in places.
55.74 - 57.14	<u>Sandy Siltstone</u> : Light grey, well cemented, dominantly feldspathic matrix, micaceous throughout, carbonaceous bands throughout, calcite veinlets.
57.14 - 59.96	<u>Sandy Siltstone</u> : Light grey to grey, well sorted and cemented, dominantly feldspathic matrix, micaceous throughout, carbonaceous banding in places, plant impressions along bedding plane; Grading to sandstone towards base of unit; <u>Sandstone</u> : medium grained, well sorted and cemented, feldspathic matrix, micaceous, slightly carbonaceous.
59.96 - 60.05	<u>Mudstone</u> : Light to dark grey, carbonaceous at top of unit.
60.05 - 60.14	<u>Carbonaceous Mudstone</u> : Grading to inferior coal.

<u>Depth (m)</u>	<u>Lithological Description</u>
60.14 - 60.89	<u>Coal</u> : Dull with minor bright bands and lamellae, hard, brittle, calcite veinlets.
60.89 - 62.73	<u>Mudstone</u> : Light grey to grey, hard, blocky, carbonaceous bands, micaceous, grading to siltstone in places, plant impressions along bedding plane.
62.73 - 63.14	<u>Sandstone</u> : Light grey, coarse grained, grading to fine grained at top of unit, well sorted and cemented, feldspathic, lithic in places.
63.14 - 66.23	<u>Mudstone</u> : Light grey to grey, hard, blocky, indurated, carbonaceous bands, plant impressions along bedding plane; with minor sandstone intercalations: light grey, well sorted, moderate to well cemented, medium grained, feldspathic, micaceous throughout.
66.23 - 66.38	<u>Coal</u> : Dull with bright bands and lamellae.
66.38 - 69.04	<u>Mudstone</u> : Light grey to occasionally dark grey, moderately hard, blocky, indurated, micaceous throughout, carbonaceous bands, grading to siltstone in places.
69.04 - 70.16	<u>Mudstone</u> : Light grey to dark grey, hard, blocky, indurated, micaceous, carbonaceous towards base of unit; with minor siltstone intercalations.
70.16 - 70.24	<u>Coal</u> : Dull with minor bright bands.
70.24 - 70.41	<u>Mudstone</u> : Light grey to dark grey, indurated, carbonaceous throughout.
70.41 - 72.06	<u>Siltstone</u> : Light grey to grey, well sorted, moderately cemented, slightly argillaceous, micaceous throughout, carbonaceous bands, plant impressions.
72.06 - 72.14	<u>Mudstone</u> : Grey to dark grey, indurated, carbonaceous throughout.
72.14 - 72.61	<u>Mudstone</u> : Grey to dark grey, indurated, micaceous, carbonaceous blebs.
72.61 - 72.81	<u>Sandstone</u> : Light grey, well sorted, feldspathic matrix.
72.81 - 75.14	<u>Mudstone</u> : Light grey to dark grey, hard, blocky, indurated, partly micaceous, occasional carbonaceous bands, becoming carbonaceous towards base of unit.
75.14 - 76.49	<u>Mudstone</u> : Light grey to dark grey, carbonaceous at top of unit, blocky, occasionally sub-fissile, indurated, micaceous throughout, plant impressions along bedding plane, grading to siltstone in places

<u>Depth (m)</u>	<u>Lithological Description</u>
76.49 - 77.15	<u>Siltstone</u> : Light grey to dark grey, well sorted and cemented, feldspathic matrix, micaceous, indurated, carbonaceous bands.
77.15 - 78.14	<u>Sandstone</u> : Light grey, medium grained to occasionally coarse grained, well sorted and cemented, feldspathic matrix, lithic, slightly micaceous, chloritic in part, plant impressions along bedding plane, carbonaceous bands and stringers throughout.
78.14 - 81.14	<u>Sandstone</u> : As above; light to dark grey, medium to coarse grained.
81.14 - 81.60	<u>Sandstone</u> : As above, sucrosic texture; with minor carbonaceous bands and coal stringers at random; with coal: dull with minor bright bands from 80.72 - 80.74.
81.60 - 81.72	<u>Coal</u> : Db, pyritic, calcite veinlets.
81.72 - 83.17	<u>Mudstone</u> : Light grey, hard, blocky, indurated, plant impressions along bedding plane, slightly micaceous.
83.17 - 83.80	<u>Sandstone</u> : Light grey, well sorted and cemented, medium grained, feldspathic matrix, carbonaceous wisps, lithic, partly micaceous, occasionally chloritic.
83.80 - 84.14	<u>Mudstone</u> : Light grey to grey, hard, blocky, indurated, slickensided, carbonaceous wisps, partly micaceous; grading to siltstone at the base of unit.
84.14 - 89.89	<u>Mudstone</u> : Light grey to grey, hard, blocky, indurated, micaceous in places, carbonaceous bands, plant remnants along bedding plane, partly pyritic.
89.89 - 90.14	<u>Core Loss</u>
90.14 - 92.44	<u>Mudstone</u> : As above, grading to siltstone towards base of unit.
92.44 - 93.04	<u>Coal</u> : Db, hard, brittle, conchoidal fracture, calcite veinlets.
93.04 - 93.15	<u>Mudstone</u> : Dark grey, hard, indurated, partly carbonaceous.
93.15 - 96.15	<u>Mudstone</u> : Light grey to dark grey, moderately hard, blocky, indurated, slightly micaceous, carbonaceous bands, plant vestiges along bedding plane, partly slickensided, calcite veinlets.

<u>Depth (m)</u>	<u>Lithological Description</u>
96.15 - 97.32	<u>Mudstone</u> : Light grey to grey, hard, blocky, indurated, carbonaceous bands, partly micaceous, grading to siltstone in places.
97.32 - 97.80	<u>Mudstone</u> : Dark grey to grey, indurated, carbonaceous.
97.80 - 99.23	<u>Siltstone</u> : Light grey, well cemented, feldspathic, indurated, carbonaceous bands, slump features present, partly bioturbated.
99.23 - 100.93	<u>Siltstone</u> : As above grading to sandstone.
100.93 - 102.29	<u>Mudstone</u> : Light grey to dark grey, hard, blocky, indurated, partly micaceous, carbonaceous towards top of unit, plant vestiges along bedding plane.
102.29 - 105.31	<u>Mudstone</u> : Light grey to grey, hard, blocky, indurated, slightly micaceous, carbonaceous bands towards base of unit, with occasional carbonaceous blebs.
105.31 - 106.98	<u>Mudstone</u> : As above grading to siltstone towards base of unit.
106.98 - 108.15	<u>Sandstone</u> : Light grey, fine to medium grained, well sorted and cemented, feldspathic matrix, micaceous in places, chloritic at random, carbonaceous bands throughout.
108.15 - 108.33	<u>Mudstone</u> : Dark grey, indurated, carbonaceous, micaceous in places.
108.33 - 110.31	<u>Mudstone</u> : Grey to dark grey, hard, blocky, indurated, micaceous, plant impressions, carbonaceous bands throughout, minor sandstone intercalations.
110.31 - 111.41	<u>Sandstone</u> : Light grey, medium grained, well sorted and cemented, dominantly feldspathic matrix, micaceous in places; with carbonaceous blebs.
111.41 - 113.11	<u>Mudstone</u> : Grey to dark grey, blocky, hard, indurated, carbonaceous throughout, partly micaceous.
113.11 - 114.35	<u>Siltstone</u> : Light grey, well sorted and cemented, dominantly feldspathic matrix, indurated, slightly micaceous, carbonaceous bands; grading to sandy siltstone.
116.57 - 117.39	<u>Mudstone</u> : Dark grey, moderately hard, indurated, carbonaceous throughout, micaceous, partly slickensided.

<u>Depth (m)</u>	<u>Lithologic Description</u>
117.39 - 119.24	<u>Mudstone</u> : As above, grey to dark grey, blocky, grading to siltstone towards base of unit.
119.94 - 120.36	<u>Mudstone</u> : Light grey to grey, moderately hard, blocky, indurated, carbonaceous, plant vestiges in places, slightly micaceous.
120.36 - 122.85	<u>Mudstone</u> : Light grey, hard, blocky, indurated, micaceous in places, carbonaceous, slickensided in places.
122.85 - 122.96	<u>Coal</u> : Dull with minor bright bands with Bd lamellae.
122.96 - 123.42	<u>Mudstone</u> : Grey to dark grey, carbonaceous, hard, blocky, indurated.
123.42 - 126.39	<u>Mudstone</u> : Light grey to dark grey, moderately hard, blocky, indurated, carbonaceous, slightly micaceous, partly slickensided.
126.39 - 126.42	<u>Core Loss</u>
126.42 - 128.59	<u>Mudstone</u> : Grey to dark grey, hard, blocky, indurated, partly micaceous, carbonaceous throughout.
128.59 - 129.42	<u>Siltstone</u> : Light grey, well sorted and cemented, feldspathic matrix, micaceous, grading to fine grained sandstone in places.
129.42 - 129.82	<u>Mudstone</u> : Grey to dark grey, hard, blocky, indurated, partly micaceous, carbonaceous bands, grading to siltstone.
129.82 - 132.47	<u>Sandstone</u> : Light grey to grey, fine to medium grained, well sorted and cemented, dominantly feldspathic matrix, lithic, occasionally micaceous, chloritic at random; contact metamorphosed in part.
132.47 - 134.27	<u>Sandstone</u> : Light grey, well sorted and cemented, medium to coarse grained, lithic, contact metamorphosed in part.
134.27 - 135.47	<u>Dolerite</u> : Dark grey
135.47 T.D.	