

QK 46 SW7

APPENDIX

Abridged Section of Tibshelf No. 1 Borehole 1954

	Thickness		Depth	
	Ft.	in.	Ft.	in.
Rotary "open-hole" boring (no cores)	1165	0	1165	0
<u>Cored boring</u>				
Mudstone, silty dark grey with ironstone	3	5	1168	5
Shale, black with coalified plants	0	1	1168	6
Clunch, black carbonaceous; grey and silty basally	3	5	1171	11
Siltstone and Sandstone	12	11	1184	10
Mudstone, silty	1	6	1186	4
<u>7 "Ashgate" Coal 3 in.</u>	<u>0</u>	<u>3</u>	<u>1186</u>	<u>7</u>
Core missing	0	1	1186	8
Clunch and clunchy bind	3	8	1190	4
Sandstone	11	0	1201	4
Mudstone, silty with ironstone and rootlets	2	5	1203	9
Sandstone	9	7	1213	4
No core	10	0	1223	4
Sandstone and siltstone	29	5	1252	9
Stone-clunch	3	2	1255	11
Mudstone, grey and dark	12	0	1268	4
Sandstone and siltstone	6	8	1275	0
Mudstone and siltstone with ironstone	30	0	1305	0
Silty mudstone with ironstone	6	0	1311	0
Mudstone, dark with fish-debris	4	8	1315	8
<u>"Mickley" Gannel 2 in.</u>				
<u>Coal 6 in.</u>	<u>0</u>	<u>8</u>	<u>1316</u>	<u>4</u>
Clunch	4	8	1321	0
Siltstone and sandstone	10	6	1331	6
Mudstone, dark shelly	28	6	1360	0
Mudstone with fish-debris, allickensides,				
and 4-in. "conk" band at 1371 ft. 2 in.	13	6	1373	6
Shale, black	0	1	1373	7

/Clunch

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	Thickness		Depth	
	Ft.	in.	Ft.	in.
N/fa.			1373	7
Clunch and clunchy mudstone	12	11	1386	6
Siltstone, grey with "muscles"	7	6	1394	0
Mudstone, silty with 2-in. ironstone				
at 1395 ft 0 in.	7	8	1401	8
Mudstone, dark shelly	1	0	1402	8
Clunch	8	4	1411	0
Mudstone and siltstone	4	1	1415	1
Mudstone shelly	9	2	1424	3
Clunch and clunchy siltstone	3	3	1427	6
Mudstone, dark with ironstone	10	7	1438	1
Mudstone, silty with ironstone and "muscles"	5	7	1443	8
Mudstone, dark shelly; carbonaceous at base	0	7½	1444	3½
Canal 2½ in.				
Bag 2 in.	0	4½	1444	8
Clunch and stone-clunch	2	8	1447	4
Sandstone and siltstone	13	8	1461	0
Siltstone, with sandy partings	29	7	1490	7
Siltstone, sandstone and mudstone with plants	23	3	1513	10
Clunch, sandy	3	2	1517	0
Sandstone,	3	6	1520	6
Siltstone ^{with} sandy partings at top	27	6	1548	0
Mudstone, silty	4	0	1552	0
Mudstone, shaly with "muscles" and fish-debris	9	0	1561	0
Mudstone, silty	1	0	1562	0
Siltstone, dark grey with coal streaks, "muscles"				
and "fish-debris"	1	10	1563	10
<u>Horizon of Kilburn Coal</u>				
Sandstone and ironstone, with fish-fragments				
and carbonaceous material	0	2	1564	0
Sandstone and siltstone	27	5	1591	5
Sandstone with numerous coalified plants				
and coal streaks	60	8	1652	1

/Sandstone

SK 4.6 SW 17

	Thickness		Depth	
	Ft.	in.	Ft.	in.
			1652	1
			1695	5
			1657	10
B/fd.				
Sandstone with conglomeratic layers	43	4	1706	0
Mudstone, silty	10	7	1755	3
Sandstone and siltstone	49	3	1785	1
Mudstone, silty	29	10	1789	1
Siltstone, grey	4	0	1790	3
Ironstone with calcite veining	1	2	1797	0
Siltstone, grey	6	9	1835	0
Mudstone, silty: "mussels" at 1806 ft 4 in.	38	0	1858	0
Mudstone, shaly, dark grey	23	0	1879	0
Mudstone, silty with occasional ironstone	21	0	1888	0
Mudstone, dark grey	9	0	1890	9
Mudstone, silty: 1-in. ironstone at base	2	9		
Mudstone, shaly with fish-debris, ostracods and ironstone	15	3	1906	0
Mudstone and silty mudstone, pyritous	29	2	1935	2
Clunch, coaly: fish-debris at top	4	8	1939	10
Siltstone, hard grey	1	2	1941	0
Mudstone, silty and shelly	11	9	1952	9
Mudstone, dark grey with "mussels", 2-in. ironstone at 1957 ft 0 in. and 2-in. cank at 1959 ft 0 in.	9	3	1962	0
Mudstone, silty	1	9	1963	9

NORTON MARINE BAND

Mudstone, silty, with fish-debris, irregular pyrite nodules and conodonts; then coal at base	1	2	1964	11
Siltstone, hard dark grey	0	2	1965	1

NORTON COAL

<u>Coal 7 in.</u>	0	7	1965	8
Clunch, sandy hard	2	2	1967	10
Sandstone, grey-green micaceous	3	2	1971	0
Siltstone, sandy at top with 1-in. ironstone at base	17	4	1988	4

/Mudstone



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	Thickness		Depth	
	Ft	in.	Ft	in.
B/fd.			19.8	4
Mudstone with oank and ironstone and fish-debris	15	3	2003	7
Shale, black with irregular pyrite nodules and fish-debris	0	11	2004	6
Coal 3 in.	0	3	2004	9
Ganister	1	0	2005	9
Stone clunch, hard light brown	0	7	2006	4
Sandstone and siltstone	16	5	2022	9
Mudstone, dark with ironstone and fish-debris	15	3	2038	0

LINGULA BAND

Mudstone, black, pyritous, occasional fish remains, <u>Lingula</u> at 2038/0	2		2038	2
Siltstone, dark, coarse grained, micaceous, a few sandstone wisps,				
broken ? <u>Lingula</u> in coprolite-like bodies at top	2	2	2040	4
Mudstone, silty, dark, 1½-in. ironstone band at 2043/6	3	4	2043	8
Shale, black, some plant remains, occasional fish scales,				
<u>Lingula</u> at 2043/10, 2044/0 to 2044/2, occasional pyrite spots and ramifications	8		2044	4
(Core lost between 2034/4 and 2049/0, 4 ft 8 in. 4 ft 8 in.)	4	8	2049	0
Sandstone, grey, hard, ganister-like, with rootlets, carbonaceous wisps and micaceous partings	1	10	2050	10
Sandstone and siltstone	22	8	2073	6
Mudstone, dark with ironstone; fish-debris at base	11	0	2084	6

ALTON MARINE BAND

Shale, black with <u>Lingula</u> and other marine fossils	3	7	2088	1
<u>ALTON COAL</u> 21 in.				
(Top 7 in. solid core, remainder fragmentary)	1	9	2089	10
Ganister	1	10	2091	8
			/Sandstone	

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	Thickness		Depth	
	Ft.	in.	Ft.	in.
B/fd.			2091	8
Sandstone, ganister-like	3	8	2095	4
Siltstone and mudstone, pale creamy grey with sphaerosiderite	2	1	2097	5
Mudstone, dark, shelly with ironstone	3	11	2101	4
Shale, dark; rare fish-scales		10	2102	2
<u>LINGULA BAND</u>				
Shale, dark with <u>Lingula</u> and fish remains; sandy lens at base		6	2102	8
<u>FIRST SMALLEY COAL 8 in.</u>				
(dirty. 100% recovery)		8	<u>2103</u>	<u>4</u>
Ganister, moderate to poor quality	2	4	2105	8
Sandstone and siltstone	6	9	2112	5
Mudstone, silty, dark, ironstone lenses; bottom half inch silty (granular) and carbonaceous with some fish scales	4	5	2116	10
<u>SECOND SMALLEY COAL 4 in.</u>				
(dirty. 100% recovery)		4	<u>2117</u>	<u>2</u>
Ganister, moderate quality	1	3	2118	5
Sandstone	4	7	2123	0
Siltstone with sandstone laminations in top 6 ft becoming fine-grained downwards; 6-in. band of crowded large mussels at 2124' 4"	11	8	2134	8
Sandstone, fine-grained		6	2135	2
<u>HOLBROOK COAL 3 in. (1 in. recovered)</u>				
	3		<u>2135</u>	<u>5</u>
Clunch	4	7	2140	0
Siltstone and sandstone interlaminated	2	3	2142	3
Sandstone	15	9	2158	0
Shale, dark, slightly silty, a few plant fragments	4		2158	4
Sandstone, fine grained, slightly micaceous	2		2159	1
<u>BELPERLAWN COAL 7 in.</u>				
(dirty. 100% recovery)		7	<u>2159</u>	<u>8</u>
/Seatearth				



SK 46 SW 7

	Thickness		Depth	
	Ft	in.	Ft	in.
B/rd.			2100	0
Seatearth, dark, silty coarse-grained	2	6	2162	2
<u>CHALK, SANDSTONE</u>				
Sandstone and siltstone	10	2	<u>2172</u>	<u>4</u>
base of borehole.				

