

this formation occasionally contains irregular beds of limestone; which, from their partial occurrence, can only be con-

Section afforded by boring at Donnington in Lincolnshire.

	feet	in.
1. A clay soil	3	—
2. Dark coloured clay.....	9	—
3. Soft grey slate with marine impressions	1	—
4. Blue argillaceous stone	—	5
5. Dark-coloured clay.....	3	1
6. The same as No. 3	1	—
7. Laminated clay slightly indurated	23	—
8. Soft grey slate slightly inflammable.....	5	3
9. Same as No. 8, but darker coloured	5	3
10. Indurated clay with white marine organic remains.....	37	6
11. Same as No. 10, but harder and blacker.....	7	3
12. Dark coloured bituminous inflammable schist	6	—
13. A dark blue coloured ironstone	—	3
14. Laminated indurated clay with white marine organic remains.....	33	—
15. Same as No. 14, but harder, with marine impressions of thin leafy pyrites	10	4
16. Dark blue argillaceous stone.....	—	4
17. Hard indurated laminated clay with impressions of thin leafy pyrites	18	4
18. Laminated bituminous schist, with white marine organic remains, and inflammable	1	10
19. Dark blue ironstone.....	—	2
20. Laminated bituminous schist, same as No. 18.....	11	—
21. Dark blue ironstone.....	—	1½
22. Laminated bituminous schist, same as Nos. 18 & 20.....	13	10½
23. Dark indurated clay, with some white marine organic remains	3	6
24. Laminated bituminous schist, same as Nos. 18, 20, & 22..	8	—
25. Dark indurated clay, same as No. 23.....	3	—
26. Laminated bituminous schist, same as Nos. 18, 20, 22 & 24	4	6
27. Dark indurated clay, same as Nos. 23 & 25, intermixed with thin seams of laminated schist	30	3
28. Grit.....	—	2
29. Brown laminated schist	—	2
30. Hardstone, bind or argillaceous stone	2	10
31. Hard laminated bituminous schist	1	2
32. Same as No. 30.....	2	—
33. Hard laminated bituminous inflammable schist	2	4
34. Inflammable slaty bind.....	3	—
35. Hard laminated bituminous schist, very inflammable	3	7½
36. Hard dark blue bind, interlaid with thin strata of bitu- minous schist	13	9½
37. Very inflammable schist	—	2
38. Hard dark blue bind, same as No. 36	3	8
39. Argillaceous stone	1	—
40. Same as 39, but not so hard	1	—
41. Hard dark blue bind, same as Nos. 36 & 38, in which the boring was discontinued	22	10