

OLE No. 778
Little Coal Land Co. No. 38

Washington District, Boone County
West Virginia
Elevation: 1189'

800.808

Examined: 11-11-1948

1 - 5	1539 - 1575	Very fine white quartz sand, angular to sub-angular grains. Drills individual grains to fine clusters. (Maxton Sand.)
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6 - 10	1643 - 1656	Very light gray limestone. Drills medium to coarse. (Top Big Lime 1643.)
13 - 15	1656 - 1680	Very light tan limestone. Drills medium to coarse. (41 M Gas 1674.)
16 - 17	1680 - 1692	Light tan limestone, slightly oolitic and a few sand grains at base. (Gas increased to 47 M @ 1682.)
18 - 19	1692 - 1712	Very light tan limestone. Drills medium. (Gas increased 1701 to 48 M; gas increased 1710 to 53 M.)
20 - 23	1712 - 1741	Light tan slightly oolitic limestone, very few free oolites. (Gas increased 1730 to 125 M. Some free oolites @ 1730.) Drills medium.
24 - 25	1741 - 1753	White limestone. Drills medium fine to fine.
26 - 29	1753 - 1793	Tan, fairly oolitic limestone with pink to red inclusions and stains. Drills medium. (Gas increased 1876 from 77 M to 83 M.) (The insolubles of these four screws show fine white silt throughout and the red inclusions are mud, very similar to the red material of the "Red Injun.")
30 - 31	1793 - 1818	White limestone. Drills medium.
32 - 33	1818 - 1830	Tan limestone, less pure than any above, silt and a few well rounded pebbles. (Residue fine white silt with very few well rounded pebbles, less than 1 mm. in diameter.) Base Big Lime 1830.
34 - 36	1830 - 1860	Reddish brown mudstone and siltstone shell. More siltstone toward base. No lime. (Injun)
37	1860 - 1875	Dark gray silty mudstone and siltstone shell. Drills medium. No lime.
38 - 39	1875 - 1895	Light greenish gray sandstone, some variegated pebble fragments. Drills individual grains and fine clusters. (Squaw) No lime. (Gas increased 1892 from 83 M to 93 M.)
39	1895 - 1902	Dark gray mudstone - pyrite.
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40 - 42	2280 - 2310	Light gray mudstone and brown silty sandstone shell. Drills medium to coarse.
43 - 44	2310 - 2333	Black shale. Drills medium to coarse.
44	2333 - 2338	White quartz sandstone, pyrite, quartzitic chips of cap rock and fine-grained sand clusters. Slightly limy.
45	2338 - 2341	Flakes of white quartzitic cap rock and clusters of extremely light gray quartz sand. Grains very fine; all contain pyrite. Sand clusters very slightly limy. (Gas increased 2338 from 79 M to 83 M.)
46 - 51	2341 - 2362	Very light, gray sandstone clusters. Grayness due to fine silt. Mudstone in sample taken to be cave from mudstones above Berea. All very slightly limy.

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			Sand of fair quality Berea. Only good sand in top two screws of Berea. Fair quality of sand due to silt.
51 - 52	2362 - 2372		Gray mudstone and black silty sandstone shell, pyrite. Drills medium.
53 - 55	2372 - 2400		Gray mudstone and a little siltstone shell. Drills medium.
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56 - 57	3143 - 3161		Gray and dark gray mudstone and some gray silty sandstone shell, some pyrite. Drills medium.
58 - 60	3161 - 3201		Light gray silty sandstone shell and gray mudstone. Drills medium.
61 - 64	3201 - 3260		Gray mudstone, light gray silty sandstone shell and Brown Shale 10 per cent. Drills medium to medium fine.
			Examined: 11-12-1948
65 - 72	3260 - 3369		Gray mudstone and siltstone shell and Brown Shale 10 per cent. Pyrite balls at top. Drills medium.
73 - 79	3369 - 3466		Soft gray mudstone and a little silty sandstone shell - pyrite and Brown Shale 5 per cent. Drills medium to medium fine.
80 - 82	3466 - 3494		Brown Shale 50 per cent and gray mudstone and a little silty sandstone shell. Drills medium.
83 - 86	3494 - 3536		Brown Shale 50 per cent, brown silty sandstone shell and some gray mudstone. Drills medium.
87 - 88	3536 - 3553		Light gray sandstone shell and gray mudstone. Drills medium to medium fine.
89 - 93	3553 - 3616		Light gray mudstone and some silty sandstone shell. Black Shale 25 per cent. Drills medium.
94 - 95	3616 - 3639		Black Shale 75 per cent and light gray mudstone - pyrite. Drills medium.
96 - 99	3639 - 3673		Light gray mudstone and a very little silty sandstone shell. Brown Shale 5 per cent. Drills medium.
99 - 100	3673 - 3692		Black carbonaceous shale. Drills medium.
101 - 102	3692 - 3714		Gray mudstone, some silty mudstone and Brown Shale 25 per cent. Drills medium.
103 - 105	3714 - 3742		Brown Shale 90 per cent and a little light gray mudstone. Drills medium.
106 - 107	3742 - 3746		Brown Shale 75 per cent, some light gray mudstone. (Cave at 3742.)
108 - 110	3746 - 3782		Black Shale. Drills medium.
111 - 112	3782 - 3805		Black Shale 90 per cent. Some light gray mudstone and silty mudstone, some pyrite. Drills medium.
113 - 114	3805 - 3825		Light gray mudstone and a little silty sandstone shell and Brown Shale 30 per cent. Drills medium.
115	3825 - 3840		Black, some brown, Shale. Drills medium.
116 - 117	3840 - 3859		Light gray and gray mudstone with a little silty sandstone shell and Brown Shale 40 per cent. Drills medium. (Base Brown Shale 3859.)
118 - 120	3859 - 3881		Light gray mudstone and a slight amount of slightly limy silty sandstone shell, some pyrite. Brown Shale 5 per cent. Drills medium.

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121 - 123 3881 - 3913 Gray silty sandstone shell with some mudstone and a slight amount of lime. Drills medium fine.

Total Depth 3913 100' Cavings in hole.

Shot 7550# Detonite 3133-3913
 T. B. Shot - 56 M
 3 Hrs. A. S. - 1 1/4 M

Shot 2331 - 2358 250# Detonite
 T. B. Shot - 1 1/4 M
 S L M when tubed 3813

Tubed:	Lime	1 1/4 M
	Berea - Shale	<u>37 M</u>
	Total	81 M