

OLO No. 761
Frank E. Mathewson No. 2
Grant District, Wayne County
West Virginia
Elevation: 999

Way 486

Examined: 12-15-1948

1 - 6	1581 - 1630	White quartz sandstone and white translucent quartz pebbles. Drills fine to medium rounded angular grains and coarse broken pebbles. No lime. (Maxton Sand.)
7 - 9	1630 - 1649	Gray to dark gray limestone. Drills medium to coarse.
Examined: 12-16-1948		
10	1649 - 1650	Dark gray mudstone. Drills medium fine.
10 - 11	1650 - 1662	White limestone with a few pieces of pale green mudstone mixed.
12 - 13	1678 - 1697	Light yellow limestone. Drills medium fine to fine.
14 - 16	1697 - 1727	Dense tan, some very light gray limestone. Drills medium to medium fine.
17 - 20	1727 - 1760	Very light tan, some white limestone. Drills medium to medium fine.
21 - 24	1760 - 1796	Very light tan oolitic limestone, pyrite near top. Oolites drill free. High porosity. Drills medium fine.
25 - 26	1796 - 1809	Dense white silty limestone. Drills medium fine.
27	1809 - 1814	Do. More porous.
28 - 29	1814 - 1831	Do. Dense.
30	1831 - 1841	Very light tan limestone, fairly porous. Drills medium fine.
31	1841 - 1849	Dense very light tan limestone, a few white quartz round pebbles. Drills medium.
32 - 33	1849 - 1858	Light tan and dark gray slightly dolomitic limestone, anhydrite.
33 - 36	1858 - 1884	Light red and brown siltstone and silty mudstone. A small amount of lime shell. All porous. Drills medium to coarse.
37	1884 - 1894	Gray porous siltstone. Drills medium to coarse.
38	1894 - 1910	Gray sandy siltstone, less porous. Slightly limey. Drills medium to medium fine.
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39 - 40	2401 - 2432	Gray mudstone, some silty sandstone shell, pyrite. Drills medium.
41 - 42	2432 - 2455	Black shale, pyrite. Drills medium to coarse.
42 - 43	2455 - 2469	Very light gray, very fine grained sandstone, pyrite. Drills medium to medium fine pieces. (Top Berea 2455.)
44 - 45	2469 - 2478	Do. Better sand. Drills medium.
45 - 49	2478 - 2514	Very light gray mudstone and siltstone shell, some very light tan sandstone shell. Drills medium.
50 - 51	2514 - 2529	Gray and light gray mudstone with brown and light gray sandstone shell. Drills medium to medium fine.
52 - 53	2529 - 2550	Light gray mudstone and some light tan sandstone shell and brown shale 40%. Drills medium.
54 - 55	2550 - 2580	Black silty shale. Drills medium to coarse.
56 - 57	2580 - 2600	Light gray mudstone and sandstone shell and some Brown Shale 20%. Drills medium.

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58 - 60	2800 - 2846		Light blue gray mudstone and siltstone shell. Drills medium to medium fine. Very slight amount of limey shell.
61 - 69	2846 - 2955		Light gray mudstone and siltstone shell and gray shale 20%. Drills medium.
70 - 72	2955 - 3001		Very light Brown Shale 50% and light gray mudstone and a little siltstone shell. Drills medium.
73 - 77	3001 - 3056		Light Brown Shale 85% and light gray mudstone, some pyrite. Drills medium.
78	3056 - 3064		Light gray mudstone and some siltstone shell and Brown Shale 40%. Drills medium.
79 - 80	3064 - 3095		Light Brown Shale 60% and light gray mudstone. Drills medium.
81 - 84	3095 - 3141		Light gray mudstone and gray shale and a little light Brown Shale 10%. Drills medium.
85 - 89	3147 - 3197		Light gray mudstone and a little siltstone shell and light Brown Shale, some pyrite, 20%. Drills medium.
90 - 95	3212 - 3291		Brown Shale, some spors and pyrite at base 90% and some gray mudstone. Drills medium.
96 - 97	3291 - 3315		Brown Shale, some light Brown Shale with spors 90%, some light gray mudstone and a little sandstone shell. Drills medium fine.
98 - 100	3315 - 3346		Black Shale 75%, light gray mudstone and some pyrite. Drills medium.
101 - 102	3358 - 3388		Light gray mudstone with some pyrite and Black Shale 40%. Drills medium.
103 - 105	3388 - 3445		Black Shale 75%, light gray mudstone. Drills medium.
106 - 109	3445 - 3508		Jet black carbonaceous shale 90% and some gray mudstone. Drills medium.
110	3508 - 3518		Light gray mudstone. Drills medium to coarse.
111 - 113	3518 - 3558		Light blue gray mudstone and a little slightly limey silty mudstone. Drills medium fine.

Total Depth 3558

Shot 10,350 Lbs. Detonite 2520 - 3560
Test Before Shot 387 CF Tubed 177 M 8. S. 4. 1. 2.
169' of Cavings in hole when tubed.

(Very well kept samples and record)