

OLO No. 770
J. N. Hauser No. 2
Grant District, Wayne County
West Virginia
Elevation: 1009'. *Way. 546*

Examined: 12-30-1948

1 - 2	1455 - 1464	White quartz pebble sandstone. Drills into broken milchy quartz pebbles and clear individual grains, many rounded to sub-rounded individual grains. No lime or dolomite.
3 - 4	1464 - 1479	Coarse grained white quartz sandstone, sub-rounded to rounded grains, clear and some milchy grains. Drills individual grains. No lime; no dolomite.
5 - 9	1479 - 1507	Fine to medium grained white quartz sandstone. Drills into angular individual grains, slightly dolomitic at base. (Salt Sand or Maxton Sand.)
10 - 11	1507 - 1518	Brown limestone with pyrite, a few pieces of light green mudstone at base. (Little Lime - Pencil Cave.)
12 - 14	1518 - 1533	Dense light gray limestone, some pyrite. Drills medium to medium fine.
15 - 16	1533 - 1545	Soft white and very light tan dense limestone. Drills coarse to medium.
17 - 20	1545 - 1575	(7" Casing set at 1567.) Very light tan limestone. Drills medium fine to medium at base.
21 - 23	1575 - 1588	Dense white limestone, slightly oolitic. Drills medium.
24 - 26	1588 - 1612	Dense very light tan limestone. Drills medium.
27	1612 - 1619	White limestone. Drills fine.
28 - 31	1619 - 1645	Very light tan oolitic limestone. Oolites drill free. Drills medium fine.
31 - 33	1645 - 1663	White slightly oolitic limestone. Drills medium to medium fine.
34 - 36	1663 - 1679	Very very light tan oolitic limestone, dense at top, oolites drill free at base. Drills medium fine to fine.
37	1679 - 1689	(Show gas 1689, not tested until 2124 - then 16 M.) Sugary crystalline very light tan limestone. Residue very slight amount white quartz silt.
38 - 39	1689 - 1705	Very light tan slightly silty limestone. Drills medium.
40	1705 - 1713	Gray to light brown dolomitic limestone with white anhydrite. Drills medium.
41	1713 - 1719	Gray to dark gray dolomite, some white anhydrite. Drills medium. (Base Big Lime 1719.)
42	1719 - 1727	Reddish brown and brown siltstone and some red mudstone. Drills medium. No lime.
43	1727 - 1733	Red and gray siltstone. Drills medium.
44 - 45	1733 - 1756	Dark gray, very silty sandstone. Drills medium. No lime.
46 - 47	1756 - 1779	Light gray sandstone and dark gray silty mudstone. Drills medium to medium fine. No lime - dolomite.
48 - 50	1779 - 1812	Dark gray siltstone and gray silty sandstone shell - pyrite. Drills medium. No lime, a little dolomite at top.
51	1812 - 1824	Dark gray silty mudstone. Drills coarse.
52	1824 - 1833	Gray silty sandstone and silty mudstone with pyrite. Drills medium to coarse.
53	1833 - 1845	Dark gray silty mudstone and some siltstone shell, pyrite. Drills coarse.
54 - 55	1845 - 1868	Dark gray silty mudstone. Drills coarse.

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56 - 57	1868 - 1886	Gray muddy siltstone. Drills medium.
58	1886 - 1900	Dark gray silty mudstone. Drills medium.
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59	2275 - 2285	Light gray mudstone - pyrite - and Brown Shale. Drills medium.
60 - 61	2285 - 2313	Black Shale. Drills medium.
61 - 62	2313 - 2321	Very very light gray fine-grained sandstone, much pyrite. Drills medium pieces. A little dolomite. (43 M Gas at 2321.) (Berea)
63	2321 - 2323	Very light gray silty sandstone with pyrite. Drills medium.
64 - 66	2323 - 2340	Very light gray silty sandstone with pyrite and gray mudstone. Drills medium.
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67	2385 - 2397	Very dark gray very silty shale. Drills medium.
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68 - 70	2550 - 2585	Light gray mudstone and some silty sandstone shell. Drills medium. No lime. No dolomite.
71 - 74	2585 - 2626	Light gray mudstone and silty sandstone shell and less than 5% gray shale. No lime, no dolomite. Drills medium.
75 - 78	2626 - 2677	Light gray mudstone and silty sandstone shell. Drills medium.
79 - 81	2677 - 2709	Very light gray mudstone and some siltstone shell. Drills medium.
82 - 85	2709 - 2758	Light gray mudstone and some siltstone shell and less than 5% gray shale. Drills medium.
86 - 87	2758 - 2779	Light gray mudstone and very muddy gray siltstone shell. Drills medium.
88	2779 - 2795	Light gray mudstone and a little siltstone shell and gray shale 40%. Drills medium.
89 - 90	2795 - 2822	Gray shale 80% and light gray mudstone and Brown Shale 5%. Drills medium.
91 - 93	2822 - 2861	Gray shale 60% and light gray mudstone and a little siltstone shell - pyrite - drills medium.
94 - 100	2861 - 2938 #15	Gray and light Brown Shale 70% and light gray mudstone and a little siltstone shell. Drills medium.
101 - 102	2938 - 2959 #14	Gray and light gray mudstone and less than 5% Brown Shale. Drills medium.
103	2959 - 2970 #13	Gray mudstone and very light gray siltstone shell and brown shell less than 5%. Drills medium.
104 - 106	2970 - 3004 #12	(Gas 2971 - 2994 increased from 28 M to 41 M.) Gray Shale and light gray mudstone and a little light gray siltstone shell and Brown Shale, less than 5%. Drills medium.
107 - 109	3004 - 3035 #11	Gray and some light Brown Shale 70% and very light gray mudstone. Drills medium.
110	3035 - 3046 #10	Light gray mudstone, some pyrite - gray shale and light Brown Shale 30%. Drills medium.
111 - 112	3046 - 3070 #9	(Gas 3046 increased 41 M to 50 M.) Brown, some light Brown Shale 90% and some gray mudstone - pyrite. Drills medium.
113 - 114	3070 - 3093 #8	Very light gray mudstone and some silty mudstone - pyrite - Brown Shale less than 5%. Drills medium.

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115 - 116	3093 - 3115 #1	Light brown and gray silty shale 80% and some light gray mudstone. Drills medium.
117 - 120	3115 - 3155 #6	Light gray mudstone and brown and gray shale 10% - pyrite. Drills medium.
121 - 124	3155 - 3195 #5	Dark Brown silty Shale - pyrite - 90% and light gray mudstone. Drills medium.
125 - 126	3195 - 3218 #4	Brown and Light Brown Shale - pyrite - 80% and some light gray mudstone. Drills medium.
127 - 128	3218 - 3236 #3	Brown Shale 75% and very light gray mudstone. Drills medium.
129 - 134	3236 - 3306 #2	Black Shale, drills medium to coarse, some pyrite. (Gas 3256 increased 48 M to 51 M.)
135 - 139	3306 - 3365 #1	Brown Shale and Light Brown Shale showing spors. Drills medium to coarse.
139 - 141	3365 - 3390	Very light gray mudstone and some slightly limey siltstone shell, some pyrite. Drills medium to coarse.
142 - 143	3390 - 3414	Light gray mudstone, pyrite, and some gray shale and Brown Shale 10%. Drills medium. No lime.
Total Depth	3414	

Shot 6050# Detonite 2799 - 3414
T. B. Shot 54 M - Tubed 307 M Shale
14 M Lime
321 M Total

15' Cavings in hole when tubed.
40 Hr. R. P., Shale 440#, Lime 445#.