

OLO No. 766

Wilson Coal Land Co. #45 Box 67
 Grant District, Wayne County
 West Virginia
 Elevation: 1022.25
 way. 490

Examined: 10-9-47

- 1 - 4 1557 - 1585 Dark gray limestone. Drills medium.
- 4 - 5 1585 - 1595 Very light gray limestone, a little soft pale green mudstone. Drills medium to medium fine.
- 6 - 11 1595 - 1630 Very light gray slightly silty limestone. Drills medium to medium fine. (7" Casing set 1624.)
- 12 - 14 1630 - 1657 Light tan slightly silty limestone. Drills medium.
- 15 - 17 1657 - 1682 Very light gray slightly silty limestone. Oolitic at base. Drills medium. (24 M Gas 1677.)
- 18 - 19 1682 - 1698 White slightly oolitic limestone. Drills medium. (Gas inc. 1692 16 M to 53 M.)
- 20 - 22 1698 - 1720 Very light tan slightly oolitic limestone. Drills medium to medium fine. A few white quartz sand grains.
- 23 - 26 1720 - 1752 Very light tan slightly oolitic silty limestone. Drills medium to medium fine. (Gas increase 1734 35 M to 235 M.)
- 27 - 28 1752 - 1767 Dense very light tan silty limestone. Drills medium.
- 29 1767 - 1773 Dense light gray silty limestone. Drills medium.
- 30 1773 - 1777 Very light tan limestone. A few white quartz small rounded pebbles. Drills medium.
- 31 1777 - 1781 Dark brown dolomitic limestone with white anhydrite. Drills medium.

Examined: 11-18-48

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- 32 1890 - 1900 Light gray, very silty sandstone shell. Drills medium.
- 33 - 34 1900 - 1919 Light gray mudstone and a little siltstone shell. Drills medium.
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- 35 - 50 1963 - 2129 Gray mudstone, some siltstone shell. Drills medium.
- 51 - 58 2129 - 2200 Gray mudstone, very little siltstone shell. Drills medium.

Examined: 11-19-48

- 59 - 61 2200 - 2222 Dark gray siltstone, some mudstone. Drills medium to medium fine. Slightly limy.
- 62 - 68 2222 - 2291 Gray and dark gray mudstone, very little siltstone shell, much pyrite. Drills medium.
- 69 - 72 2291 - 2338 Gray mudstone, some gray and brown silty sandstone shell. Drills medium.
- 73 - 74 2338 - 2357 Light gray mudstone and 50% Brown Shale with pyrite. Drills medium.
- 75 - 76 2357 - 2370 Black shale, pyrite.
- 76 2370 - 2372 White quartz sandstone, pyrite. Drills medium to coarse pieces. Slight effervescence with concentrated HCl. only. (Drillers record will not agree with sample record.) Drillers changed back about 14 feet.

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COPY

77 - 78	2372 - 2387	Very light gray silty sandstone shell and gray mudstone with pyrite. Drills medium.
79 - 82	2387 - 2413	Very light tan silty sandstone, very, very fine-grained. Drills medium to medium fine pieces, no individual grains. Very slight effervescence with dilute HCl.
83 - 85	2413 - 2428	Very light gray mudstone and some silty sandstone shell. Drills medium.
86 - 90	2428 - 2478	Soft black shale. Drills medium.
91 - 93	2478 - 2506	Silty black shale, more firm than above. Trace of lime. Drills medium to medium fine.
94 - 95	2506 - 2527	Brown Shale 50 per cent and light gray mudstone and a little siltstone shell - pyrite. Drills medium to medium fine.
96 - 98	2527 - 2550	Light gray mudstone, some gray shale and a little silty sandstone shell. Drills medium.
99 - 105	2550 - 2623	Very light gray silty sandstone shell and mudstone. Drills medium. Very slight amount of lime.
106 - 110	2623 - 2673	Very light gray mudstone and some silty sandstone shell. Drills medium.
111 - 116	2673 - 2726	Very light gray silty sandstone shell and gray mudstone. Drills medium fine. No lime.
117 - 119	2726 - 2758	Very light gray mudstone and a little siltstone shell. Drills medium.
120 - 122	2758 - 2790	Light gray mudstone and silty sandstone shell, light brown very silty shale 25%. Drills medium.
123 - 124	2790 - 2803	Do. Drills medium fine.

Examined: 11-30-48

125 - 127	2803 - 2831	Very light gray silty mudstone and some brown muddy siltstone - pyrite - no lime. Drills medium.
128 - 130	2831 - 2861	Light gray mudstone pyrite - and 30% silty Brown Shale. Drills medium to medium fine.
131	2861 - 2867	Light gray mudstone and a little light brown siltstone shell - pyrite - Drills medium.
132 - 134	2867 - 2897	Light gray mudstone - pyrite-- Brown Shale 20%. Drills medium.
135 - 136	2897 - 2916 #17	Brown Shale 70% and light gray mudstone and siltstone shell, some pyrite. Drills medium fine.
137 - 138	2916 - 2945 #16	Brown Shale, pyrite and a little siltstone shell 50% and light gray mudstone. Drills medium fine.
139 - 140	2945 - 2965 #15	Light gray mudstone and a little siltstone shell and Brown Shale 10%. Drills medium.
141 - 143	2965 - 2994 #14	Do. Brown Shale 5%.
144 - 147	2994 - 3029 #13	Light gray mudstone and siltstone shell. Brown Shale 5%. Drills medium fine.
148 - 150	3029 - 3054 #12	Light gray mudstone and a little siltstone shell. Brown Shale 5%. Drills medium to coarse.
151 - 152	3054 - 3077 #11	Brown and light brown shale 90% and light gray mudstone. Drills medium to coarse.
153 - 154	3077 - 3097 #10	Light gray mudstone and a little siltstone shell - pyrite - Brown Shale 10%. Drills medium.
155 - 160	3097 - 3158 #9	Brown and some dark Brown Shale 95% and a little gray mudstone. Pyrite near base. Drills medium.

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COPY

161 - 162	3158 - 3180	Black carbonaceous shale, some pyrite. Drills medium
163	3180 - 3192	Gray and light gray mudstone and some light gray siltstone shell, Brown Shale 50%. Drills medium.
164 - 166	3192 - 3221	Dark Brown Shale, pyrite, 85% and light gray mudstone and gray sandstone shell. Drills medium.
167 - 168	3221 - 3241	Brown and dark Brown Shale 85% and some light gray mudstone with pyrite. Drills medium.
169 - 171	3241 - 3271	Black and some Brown Shale - pyrite - 90%, some light gray mudstone. Drills medium to coarse.
172 - 174	3271 - 3307	Black carbonaceous shale. Drills medium to coarse.
175	3307 - 3318	Brown and black Shale pyrite 60% and gray and light gray mudstone. Drills medium to coarse.
176 - 179	3318 - 3369	Black carbonaceous shale - pyrite - 90% and some gray mudstone and silty mudstone. Drills medium.
180 - 182	3369 - 3398	Light gray mudstone and a little limy siltstone shell. Pyrite and Brown Shale 10%. Drills medium to medium fine.
183 - 185	3398 - 3428	Light gray mudstone and limy siltstone shell. Drills medium to medium fine.
Total Depth	3428	

An excellent Brown Shale body. Shale a good per cent of all shale samples.

This well shot 10,550# Detonite 2356 - 3428.
Test Before Shot 114 M of which most of gas was in Big Lime.
Tubed 129 M Lime, 834 M Shale, total 963 M.
From the samples this should make one of the best wells on the Wilson Coal Land Company tract.