

OLO No. 767  
Stein & McComas #5  
Harts Creek District  
Lincoln Co., W. Va.  
Elevation: 1149'

Lin. 814

Examined: 12-20-48

1	1779 - 1783	Gray limestone. Drills medium.
2 - 4	1783 - 1796	Light brown limestone. Drills medium to medium fine.
5 - 7	1796 - 1811	Very light tan to white limestone. Drills medium. (7" Casing set at 1806'.)
8 - 9	1816 - 1832	Dense yellow limestone. Drills medium.
10	1832 - 1837	Light tan and white limestone, a few oolites. Drills medium.
11	1837 - 1843	Light gray silty limestone. Drills medium.
12 - 13	1843 - 1856	Light tan limestone. Drills medium.
14	1856 - 1861	Very light gray limestone with some pale green mudstone mixed and silty. (Top Big Lime 1861.)
15	1861 - 1865	Dense white limestone. Drills medium fine.
16 - 17	1865 - 1877	White to very light tan slightly oolitic limestone. Drills medium.
18 - 20	1877 - 1891	Dense white limestone. Drills medium.
21 - 23	1891 - 1905	White slightly oolitic limestone. Drills medium to medium fine.
24 - 25	1905 - 1914	Yellow to tan silty limestone. Drills medium.
26 - 29	1914 - 1939	Light greenish gray dolomitic silty limestone. Drills medium to coarse.
30 - 32	1939 - 1961	Dense light tan limestone. Drills medium fine to coarse flat pieces.
33	1961 - 1968	Light tan and greenish gray limestone and dolomitic limestone. Drills medium to coarse flat pieces.

Examined: 12-21-48

34	1968 - 1976	Very light brown slightly oolitic leached limestone with red inclusions and encrustations, a few rounded quartz pebbles. (Base Big Lime 1976.)
35	1976 - 1984	Reddish brown siltstone. Drills medium.
36 - 39	1984 - 2017	Red mudstone and silty mudstone. Drills medium to coarse.
40 - 42	2017 - 2049	Light gray sandstone shell with pyrite at top and gray mudstone. Drills medium. (43 M Gas 2023.)
43 - 48	2049 - 2108	Gray micaceous siltstone with black bituminous specks and a little tan sandstone shell. Drills medium.
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49	2478 - 2491	Gray mudstone and light tan silty sandstone shell. Drills medium.
50 - 51	2491 - 2516	Black shale, some pyrite. Drills medium.
52 - 53	2516 - 2530	White quartz, fine-grained sandstone, pyrite, slightly limy. Drills medium fine to medium pieces.
54	2530 - 2533	Do and gray mudstone. Drills medium.
55 - 56	2533 - 2541	Light gray siltstone shell - pyrite - and dark gray silty shale. Drills medium.
57 - 58	2541 - 2555	Light gray siltstone and silty sandstone pyrite and gray mudstone. Drills medium.
59	2555 - 2563	Gray mudstone and some micaceous siltstone with pyrite. Drills coarse.

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60	2563 - 2572	Gray shale and silty mudstone and a little siltstone shell with pyrite. Drills medium.
61	2572 - 2581	Gray mudstone and silty micaceous mudstone with pyrite. Drills coarse.
62	2581 - 2591	Gray, some light gray, mudstone and some gray siltstone shell with pyrite. Drills medium.
63	2591 - 2600	Light gray mudstone, some silty mudstone. Drills coarse.
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64 - 65	3385 - 3403	(Gas increased <sup>-3385-3413-</sup> 43 M to 63 M.) Light gray mudstone and some siltstone shell and light brown shale 20%. Drills medium fine.
66 - 67	3403 - 3425	Light gray siltstone and sandstone shell and light gray mudstone. Drills medium fine.
68 - 71	3425 - 3474	Light gray mudstone and siltstone shell and a little light Brown Shale 10%. Drills medium.
72 - 74	3474 - 3504	Light gray mudstone and sandstone shell and a little Brown Shale 5%. Drills medium fine.
75 - 77	3504 - 3541	Light gray mudstone and a little silty sandstone shell with pyrite and light Brown Shale 5%. Drills medium to coarse.
78 - 80	3541 - 3568	Gray mudstone and silty mudstone and some Brown Shale 15%. Drills medium to medium fine.
81 - 82	3568 - 3587	Dark Brown Shale 80%, some light gray mudstone. Drills medium.
83 - 85	3587 - 3605	(Gas increased 3591 62 M to 66 M.) Gray mudstone and siltstone and some silty sandstone shell and Brown Shale 5%. Drills medium to medium fine.
86 - 87	3605 - 3628	Gray mudstone and silty sandstone shell with pyrite and brown silty shale 40%. Drills medium to medium fine.
88	3628 - 3636	Black Shale 70%, light tan sandstone shell and some mudstone. Drills medium to medium fine.
89	3636 - 3642	(Gas increased 3642 62 M to 65 M.) Light gray mudstone and some micaceous sandstone shell and some Brown Shale 10%. Drills medium fine.
90 - 91	3642 - 3660	Light gray mudstone and silty sandstone shell with pyrite and Black Shale 40%. Drills medium.
92	3660 - 3666	Black Shale 95%, light gray mudstone. Drills medium.
93 - 95	3666 - 3707	Black Shale and light blue gray mudstone, some pyrite, drills medium.
96 - 97	3707 - 3724	Gray mudstone and some silty sandstone with pyrite and Black Shale 5%. Drills medium to medium fine.
98 - 99	3724 - 3744	Light Brown Shale with some spors and Black Shale with pyrite 90% and a little gray siltstone shell. Drills medium.
100 - 103	3744 - 3800	Black Shale 90%, some light gray mudstone and siltstone shell. Drills medium.
104	3800 - 3812	Light Brown Shale with spors and Brown Shale 90% and gray silty mudstone. Drills medium.
105 - 106	3812 - 3835	Light Brown silty Shale and some Black Shale 80% and light gray silty mudstone with some pyrite. Drills medium.
107	3835 - 3862	Black Shale 90% and gray silty mudstone with pyrite. Drills medium. (Gas increased 3537 65 M to 66 M.)
108	3862 - 3873	Light blue gray mudstone with much pyrite and a little Black Shale 20%. Drills medium.

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109	3873 - 3881	Light blue gray mudstone and some sandstone shell with pyrite and some Black Shale 10%. Drills medium. (Gas increased 3881 66 M to 67 M.)
110 - 112	3881 - 3902	Light gray mudstone and a little silty sandstone shell, some lime at base. Drills medium to medium fine.
113	3902 - 3915	Do and 5% Brown Shale, slightly limy. Drills medium.
Total Depth	3915	

Shot 11,700# Detonite 2700 - 3915  
Test Before Shot 67 M  
Tubed 307 M Shale  
25 M Injun  
332 M Total

NOTE: Errors made in measurement make sand thickness almost impossible to interpret.

29'	Big Lime
27'	Top Berea
70'	Top Shale
<u>126'</u>	Error in 1700'

This was at a time when we were having lots of trouble with drillers measurements.  
Cleaned up after drilling.  
Superintendents changed.