

OLO No. 133  
J. M. Hopkins "A"  
Scott District, Boone County  
West Virginia  
Elevation: 914'

Boo 805D  
✓

Original depth - 1919'  
Drilled Deeper - 3-9-1948 to 4-14-1948  
56 M - All Sands.

Examined: 12-27-1948

1 - 5	1919 - 1953	Gray mudstone, silty mudstone and a little siltstone shell. Drills medium. No lime. No dolomite.
6 - 9	1953 - 2000	Gray silty sandstone shell and gray mudstone and silty mudstone. Drills medium. No lime. No dolomite.
10 - 12	2000 - 2031	Light gray silty micaceous sandstone with pyrite. Gray mudstone. Drills medium.
13 - 15	2031 - 2064	Gray and light gray mudstone and silty sandstone shell. No lime. No dolomite. Drills medium.
16 - 17	2064 - 2086	Brown siltstone and silty sandstone and gray mudstone and siltstone shell. Drills medium. No lime. No dolomite.
18 - 19	2086 - 2107	Gray mudstone and siltstone shell and some brown silty shale 40%. Drills medium. No lime. No dolomite.
20 - 21	2107 - 2126	Gray siltstone and light gray sandstone shell with pyrite and brown shale 25%. Drills medium. A trace of shell is limey.
22 - 26	2126 - 2166	Gray and light gray silty sandstone shell with pyrite and gray mudstone. Trace of dolomite.
27	2166 - 2177	Very light gray, slightly limey, and light brown silty sandstone shell. Drills medium fine.
28	2177 - 2188	Gray mudstone, light gray silty sandstone shell and some Brown Shale 10%. Drills medium.
29	2188 - 2194	Very light gray silty sandstone shell, gray siltstone and some mudstone. Drills medium fine. Hardly a trace of lime in shell.
30	2194 - 2200	Brown silty micaceous sandstone shell, a little red silty mudstone. Drills medium. Trace of dolomite.
31 - 33	2200 - 2230	Soft gray silty mudstone and some light gray sandstone shell. Drills medium to medium fine. Trace of dolomite.
34 - 36	2230 - 2259	Gray to light gray silty micaceous sandstone shell, some gray mudstone. Drills coarse to medium fine. Trace of dolomite middle screw.
37 - 44	2259 - 2346	Gray mudstone and some light gray micaceous sandstone shell. Drills medium, some dolomite, last screw.
45 - 49	2346 - 2391	Light gray mudstone and silty mudstone and a little light gray micaceous sandstone shell with a little pyrite. Drills coarse to medium. No lime, trace of dolomite at top.
50 - 53	2391 - 2445	Gray mudstone and silty micaceous sandstone shell. Drills medium.
54 - 56	2445 - 2481	Gray mudstone and silty micaceous sandstone shell. Drills medium to coarse. No lime. Trace of dolomite.
57 - 60	2481 - 2533	Gray and brown silty, some micaceous, sandstone shell and gray mudstone. Drills medium. Trace of dolomite.
61 - 63	2533 - 2569	Gray mudstone and silty micaceous sandstone shell. Trace of lime at top. Drills medium.
64 - 65	2569 - 2590	Dark gray mudstone and gray silty, some micaceous, sandstone shell. Drills medium. No lime. No dolomite.

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66	2590 - 2601	Light gray mudstone, some silty mudstone. Drills medium to coarse.
67 - 69	2601 - 2637	Gray and brown silty slightly micaceous sandstone shell, some gray mudstone. Drills medium fine. No lime; no dolomite.
Examined: 12-28-1948		
70 - 72	2637 - 2673	Gray mudstone, siltstone and a little micaceous sandstone shell. Drills medium.
73 - 75	2673 - 2700	Gray mudstone and a very little sandstone shell. Drills medium.
76 - 80	2700 - 2759	Soft gray mudstone, some siltstone shell. Drills medium. No lime, trace dolomite last screw.
81 - 82	2759 - 2780	Gray siltstone and mudstone. Drills medium.
83 - 85	2780 - 2813	Light gray mudstone and some siltstone shell and light Brown Shale 20%. Drills medium.
86 - 89	2813 - 2865	Gray mudstone, siltstone and a little micaceous sandstone shell - pyrite - and a little Brown Shale 20%. Drills medium.
90 - 95	2865 - 2939	Light gray mudstone and siltstone and a little gray shale and Brown Shale 5%. Drills medium. No lime, some dolomite.
96 - 97	2939 - 2964	Light gray mudstone and siltstone and a little gray shale. Drills medium.
98 - 101	2964 - 3004	Light gray mudstone, some siltstone and Brown Shale less than 5%. Drills medium to coarse.
102 - 103	3004 - 3023	Light gray mudstone and siltstone and a little sandstone shell. Drills medium to medium fine. No lime. Some dolomite.
104 - 105	3029 - 3052	Do. Drills medium. Less dolomite.
106 - 107	3052 - 3071	Light gray mudstone and some siltstone - pyrite - and Brown Shale 10%. Drills medium.
108 - 109	3071 - 3096	Light gray mudstone and siltstone and light brown sandstone shell - pyrite - and Brown Shale 5%. Drills medium. No lime. No dolomite.
110 - 111	3096 - 3110	Fine-grained white limey and brown sandstone shell with pyrite and gray and Brown Shale 10%. Drills medium fine.
112 - 115	3110 - 3151	Light gray mudstone, light tan and gray sandstone shell and Brown Shale 10%. Drills medium. No lime, trace dolomite.
116	3151 - 3164	Light gray mudstone and sandstone shell with pyrite, gray silty mudstone and a trace of Brown Shale, less than 5%. Drills medium.
117	3164 - 3177	Light gray mudstone and light tan siltstone and gray sandstone shell. Brown Shale 10%. Drills medium.
118	3177 - 3187	Light gray mudstone and gray siltstone shell with much pyrite. Drills medium. Some lime.
119 - 120	3187 - 3199	Light gray silty mudstone and tan sandstone shell and Brown Shale 20%. Drills medium. Trace of lime.
121 - 122	3199 - 3225	Light gray mudstone and some sandstone shell and Brown Shale, less than 5%. Drills medium.
123 - 124	3225 - 3249	Light gray mudstone and some light tan sandstone shell and Brown Shale 20%. Drills medium. Trace dolomite.
125 - 129	3249 - 3301	Gray mudstone and light gray sandstone shell.

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130	3301 - 3313	Gray mudstone and some siltstone shell and Brown Shale 5%. Drills medium.
131 - 133	3313 - 3355	Brown Shale 80%. Gray mudstone and a little siltstone shell with pyrite. Drills medium.
134	3355 - 3371	Brown Shale 75%, light brown silty mudstone and some sandstone shell. Drills medium.
135 - 139	3371 - 3455	Brown Shale 75%, light brown mudstone and some siltstone shell. Drills medium.
140	3455 - 3467	Dark Brown Shale 80% and light gray mudstone with some pyrite. Drills medium.
141 - 142	3467 - 3496	Brown Shale. Drills medium to coarse.
143 - 144	3496 - 3526	Gray silty mudstone, some light gray mudstone and Brown Shale 25%. Drills medium.
145 - 147	3526 - 3566	Gray and light gray mudstone and Brown Shale 10%. Drills medium.
148 - 151	3566 - 3604	Light blue gray mudstone and some siltstone shell. Drills medium. Trace of lime.
Total Depth	3604	

Shot 7100# Detonite 2907 - 3604  
 T. B. Shot 15,611 CF  
 2 Hr. 40 Min. A. S. 94 M  
 Set Bolshevic Bridge @ 1895  
 Shot 200# Detonite 1873 - 1894  
 30 Min. A.S. 109 M  
 Tubed Berea-Shale 48 1/2 M  
                   Lime 7 1/2 M  
                   56 M Total

Est. 30 M Berea  
 18 1/2 M Shale