

OLO No. 711
Island Creek Mineral Co.
Harts Creek District,
Lincoln County, W. Va.
Elevation: 942'

Line 613

Examined: 1-23-1946

1 - 5	1480 - 1507	Light and dark gray mottled limestone. (Red, green and black mudstone cave.) Drills medium to fine.
6	1507 - 1512	Do, and black mudstone. Drills fine.
7 - 8	1512 - 1522	Dense white limestone. Drills medium to fine. (Top Big Lime 1512.)
9	1522 - 1528	Very light gray limestone. Drills medium to fine. (Much black mudstone cave.)
Examined: 1-24-1946		
10 - 11	1528 - 1538	Very light tan and white limestone. (Very dark gray silty mudstone cave.)
12 - 13	1538 - 1548	(Set 7" Casing 1538'.) Very light gray limestone; some pyrite. Drills medium to fine. (No cave.)
14 - 15	1548 - 1563	Very light tan limestone. Drills medium to fine.
16	1563 - 1569	(Gas 1563-1569 estimated 1,500 MCF, blew down 3 hours 177 M.) Dense very light tan limestone. Some fractured samples show styloliting. (Gas probably in stylolite fracture zone.)
17 - 18	1569 - 1581	Dense very light tan and white limestone. Drills medium to fine.
19 - 20	1591 - 1607	Dense very light gray and tan limestone. Drills medium to fine.
21 - 22	1607 - 1623	Very light gray to white oolitic limestone; oolites small. Drills medium to fine.
23 - 26	1623 - 1652	Very light tan oolitic limestone; some oolites drill free. Drills fine.
26 - 29	1652 - 1687	Dense white dolomite, some pyrite. Drills fine. (Base Big Lime 1687.)
30 - 31	1687 - 1708	Red, some brown, siltstone. Drills fine.
32	1708 - 1718	Bright red siltstone, 80 per cent; red and brown siltstone, 20 per cent. Drills fine.
33	1718 - 1728	Brown siltstone, 80 per cent; bright red siltstone, 20 per cent. Drills fine.
34	1728 - 1733	Brown very fine-grained sandstone. Drills medium. (Gas 1728 inc. 35 M to 52 M.)
35 - 36	1733 - 1751	Bright red siltstone, 80 per cent; brown sandstone and gray siltstone, 20 per cent. Drills medium.
37	1751 - 1754	Gray siltstone. Drills medium to coarse.
37	1754 - 1756	Very light gray fine-grained sandstone. Drills medium to coarse. (Top Gray Injun 1754.)

38	2210 - 2220	Very dark gray mudstone and some gray sandstone shell. A little black fissile shale at base. Drills medium.
39 - 40	2220 - 2237	Black fissile shale, pyrite. Drills medium to coarse.
41 - 45	2237 - 2257	Dull white very fine-grained sandstone; small pyrite crystals. Drills fine. Most of pyrite at top.
45 - 46	2257 - 2270	Very light gray silty mudstone, some very light gray siltstone shell; a few pieces of red siltstone. Drills fine.

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47	2270 - 2280	Very light gray silty mudstone. Drills medium.
48 - 50	2280 - 2311	Light gray silty mudstone and light brown siltstone shell. Drills medium.
51 - 52	2311 - 2333	Brown siltstone, 75 per cent, gray silty mudstone, 25 per cent. Drills medium.
53 - 55	2333 - 2372	Light gray silty mudstone and light Brown Shale. Drills medium to fine.
56 - 57	2372 - 2402	Very light brown mudstone, some light gray silty mudstone. Drills fine to medium.
58	2402 - 2414	Light gray mudstone and some brown silty mudstone. Drills medium.
59 - 60	2414 - 2438	Gray mudstone and light brown silty mudstone. Drills medium.
61	2438 - 2454	Gray mudstone and light gray silty mudstone. Drills medium.
62 - 65	2454 - 2497	Light brown siltstone and slightly limy silty mudstone, some gray mudstone. Drills fine.
66 - 67	2497 - 2516	Do, with lime shell.
68	2516 - 2527	Gray mudstone and light gray silty mudstone; no lime. Drills medium to fine.
69 - 73	2527 - 2589	Gray mudstone and light gray siltstone and lime shell. Drills fine. Less lime and siltstone shell at base.
74	2589 - 2602	Gray mudstone and silty mudstone shell. Drills medium fine; no lime.
75 - 78	2602 - 2651	Gray silty mudstone and siltstone shell. No lime. Drills medium fine.
79 - 81	2651 - 2681	Gray mudstone and some light brown silty mudstone. Drills medium.
82 - 91	2681 - 2822	Gray mudstone and siltstone shell. No lime. Drills fine.
92 - 94	2822 - 2850	Gray mudstone, very little siltstone shell. Drills medium to fine.
95 - 99	2850 - 2912	Brown Shale, gray mudstone and very light gray siltstone shell. Drills fine, no lime. Less Brown Shale toward base.
100 - 102	2912 - 2955	Very light gray mudstone and sandstone shell, some gray mudstone. Drills fine. No lime. Some Brown Shale near base.
103 - 105	2955 - 3003	Light gray and gray mudstone and some gray sandstone shell, slightly limy. Drills medium to fine. Some Brown Shale and more lime near base.
106 - 108	3003 - 3054	Gray mudstone and light gray siltstone shell, very little Brown Shale. No lime. Drills medium.
109 - 112	3054 - 3110	Gray mudstone and light gray siltstone shell, some very light gray limy sandstone shell. Drills fine.
113 - 116	3110 - 3166	Do, less lime, a little Brown Shale. Drills fine.
117 - 119	3166 - 3188	Gray mudstone and some siltstone shell, very little Brown Shale. Drills fine. No lime.
120 - 121	3188 - 3203	(Gas 3195-3208 inc. 31 M to 35 M.) Gray mudstone and light gray silty limy mudstone, some light Brown Shale. Drills medium.
122 - 125	3203 - 3240	Light gray mudstone and siltstone shell, a little Brown Shale. No lime. Drills fine.
126	3240 - 3254	Light gray and gray mudstone. Drills fine.
127	3254 - 3268	Light gray mudstone and siltstone shell. Drills fine.
128	3268 - 3283	Light gray mudstone and siltstone shell, 50 per cent; Brown Shale, 50 per cent. Drills fine.

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129 - 130	3283 - 3308	Light gray and gray mudstone and some gray siltstone shell. Drills fine. Slightly limy at base.
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131 - 133	3308 - 3342	Brown Shale, 75 per cent, light brown mudstone, some pyrite, 25 per cent.
134 - 137	3342 - 3381	Light brown silty mudstone, some lime, some Brown Shale. Drills fine.
138 - 140	3381 - 3418	Very light gray limy siltstone and lime shell and light brown silty mudstone. A little Brown Shale. Drills fine to very fine.
141 - 142	3418 - 3450	Brown Shale, light brown silty mudstone and a little lime shell. Drills medium to fine.
143 - 144	3450 - 3475	(Gas 3451 inc. 35 M to 38 M.) Light gray mudstone and brown silty mudstone with a little Brown Shale. Slightly limy. Drills medium.
145	3475 - 3491	Light gray limy mudstone, some lime shell. Hardly any Brown Shale. Drills medium.
146 - 147	3491 - 3523	Brown Shale, a little very light gray siltstone shell and mudstone. Drills fine to medium.
148	3523 - 3539	Light gray mudstone, some Brown Shale, a little siltstone. Drills medium.
149 - 151	3539 - 3589	Brown Shale, a little light brown silty mudstone, some limy siltstone shell. Drills fine.
152 - 153	3589 - 3621	Do, no lime. Drills medium.
154	3621 - 3630	Brown Shale. Drills fine.
155 - 157	3630 - 3664	Brown Shale, 67 per cent, light brown silty mudstone and silty lime shell. Drills fine.
158	3664 - 3675	Light gray mudstone, some very light gray silty lime shell. Drills fine.
159 - 161	3675 - 3713	Light gray mudstone with a little Brown Shale, some lime shell. Drills fine.
162	3713 - 3727	Light gray limy mudstone. Drills fine.
163 - 164	3727 - 3758	Do, a very little Brown Shale and very light gray limy shell. Drills medium.

Total Depth 3758

Shot 3002-3756 with 7400 Lbs. Detonite

Test Before Shot 35 M

Tubed: 109 M Shale

22 M Lime

131 M Total