

OLO No. 663
Lou Bowen & Bertha Smith No. 1
Union District, Wayne County
West Virginia

way 284

Original Depth - 3980'
Drilled Deeper - 2-25-1949
5 $\frac{1}{2}$ " Casg. set - 3981'
Elevation - 570'

Examined: 3-10-1949

1 - 2	3981 - 3990	Pink mudstone and gray siltstone shell. Drills medium. (Much cave removed.) Pink and red mudstone. Drills medium. Slight effervescence with concentrated HCl only.
3 - 10	3990 - 4049	
11 - 13	4049 - 4065	(Very little cave.) Red mudstone and pink silty mudstone. Drills medium fine. Slight effervescence with concentrated HCl only.
14 - 21	4065 - 4119	(Some cavings to 4091--much cavings from 4091 to 4119.) Pink mudstone, very slight effervescence only with concentrated HCl. Drills medium.
22 - 26	4119 - 4149	(Much to very much cavings.) Slight effervescence with dilute HCl. Pink and blue gray mudstone. Drills medium.

Examined: 3-11-1949

27 - 28	4149 - 4159	(Very little cave.) Red mudstone and blue gray mudstone and siltstone. Slight effervescence with concentrated HCl only.
29 - 32	4159 - 4178	(Much cave removed.) Pink, red and light blue mudstone with some gray siltstone shell. Slightly limy at base. Drills medium.
33 - 34	4178 - 4189	(Some cave removed.) Pink and light blue mudstone and white silty limestone shell. Drills medium.
35	4189 - 4195	(Some cave removed.) Do. Less limestone shell.
36 - 37	4195 - 4209	(Very much cave removed.) Red, some light blue, mudstone, a very little limestone shell. Drills medium.
38 - 41	4209 - 4238	(Some cave to much cave removed.) Red and a slight amount of light blue gray mudstone. Drills medium.
42 - 43	4238 - 4248	(Little cave removed.) White limy siltstone and red mudstone and a little light blue mudstone. Drills medium fine.
44 - 45	4248 - 4253	(Very little cave removed.) Red and a little light blue mudstone with some light gray limy siltstone. Drills medium.
46 - 47	4253 - 4257	(Little cave removed.) Red and a little light blue gray mudstone with a trace of limy siltstone shell. Drills medium.
48 - 49	4257 - 4272	(Much cave removed.) Light blue gray, some red mudstone with a trace of slight limy gray siltstone shell. Drills medium to medium fine.
50 - 51	4272 - 4286	(Some cave removed.) Light blue, some pink mudstone. Drills medium.

OLO No. 663
 Bowen & Smith
 Drilled Deeper
 Examined: 3-16-49

- 52 - 53 4286 - 4300 Light blue gray and pink mudstone with some fossilif-
 erous limy shell with hematite, sample turns orange
 in HCl and leaves fine orange silt.
 54 4300 - 4305 Gray silty sandy limestone shell. Top Clinton 4300.
 Much caving. Drills medium.
 55 - 57 4305 - 4320 White semi-quartzitic sandstone, very fine-grained
 when grain size can be observed. Drills into medium
 to coarse flakes. Hole caving very bad. Some lime.
 58 - 59 4320 - 4322 White quartz sandstone, fine grain. Drills fine
 pieces, very much cave. Trace lime with concentrated
 HCl.
 60 4322 - 4324 Round white quartz pebbles frosted, some green silty
 sand shell, some oolitic limy hematite. Very much
 cave. Drills medium fine.
 61 - 65 4324 - 4347 Very light gray fine-grained silty sandstone, some
 lime, very much red and light blue mudstone cave.
 Drills medium fine. More limy at base than top.
 66 4347 - 4349 Light gray limy fine-grained sandstone, some red
 hematite pieces. Drills fine. Much cave material.

Examined: 3-17-1949

- 67 - 70 4349 - 4377 Very light gray sandstone shell. Hole caving very
 bad. Drills medium fine.
 71 - 73 4377 - 4394 Gray sandstone shell. Drills medium. Hole caving
 very bad.
 74 - 76 4394 - 4406 Soft white sandstone shell. Drills medium. Hole
 caving very bad.
 77 - 78 4406 - 4414 Gray siltstone shell, very little sand shell. Hole
 not caving as bad as above. Drills medium.
 79 - 80 4414 - 4420 Gray and dark gray siltstone and silty mudstone.
 Drills medium. Cave not too bad.

Examined: 3-18-1949

- 81 - 82 4420 - 4432 Red limy mudstone 80 per cent and silty mudstone, a
 little light gray mudstone. Not much cave removed.
 Drills medium.
 83 - 86 4432 - 4457 Red limy mudstone and silty mudstone 80 per cent and
 a little light gray mudstone and silty mudstone. Not
 much cave removed. Drills medium.

Examined: 3-21-1949

- 87 - 88 4457 - 4468 Do. Reds 90 per cent.
 89 - 91 4468 - 4479 Soft slightly limy red mudstone and silty mudstone.
 Drills medium fine.
 92 - 94 4479 - 4495 Red slightly limy mudstone and silty mudstone. Drills
 medium.
 95 - 98 4495 - 4523 Red slightly limy slightly silty mudstone. Drills medium.
 99 - 100 4523 - 4540 Light blue gray slightly limy mudstone and a little light
 gray fossiliferous limy shell. Drills medium.
 101 - 104 4540 - 4569 Pinkish gray silty slightly limy mudstone, gray fossilif-
 erous limy shell. Bryozoe (?) and a little blue gray
 slightly limy mudstone. Drills medium.

OLO No. 663
Bowen & Smith
Drilled Deeper

Examined: 3-24-1949

105 - 108	4569 - 4600	Pink mudstone and a very little silty mudstone and some gray fossiliferous lime shell. Drills medium.
109 - 115	4600 - 4636	Pink mudstone and gray siltstone shell. Some gray lime shell. Drills medium.
116 - 118	4636 - 4654	Gray mudstone and siltstone shell, some pink mudstone and gray and white fossiliferous lime shell. Drills medium.
119 - 122	4654 - 4679	Gray mudstone and a little siltstone shell and white and gray lime shell. Drills medium.

Examined: 3-29-1949

123 - 124	4679 - 4687	Dark gray mudstone and very light gray silty limestone shell. Drills medium to medium fine.
125 - 129	4687 - 4710	Blue gray mudstone and a little gray silty fossiliferous lime shell. Drills medium.
130 - 133	4710 - 4736	Gray silty lime shell and some gray mudstone. Drills medium.
134 - 135	4736 - 4745	Do. More lime shell.
Total Depth	4745	

Dry in White Medina, Red Medina and Gray Medina to top Maysville or Richmond beds - plugged back to shoot Brown Shale.