

OLO No. 773
Robert Williamson No. 1
Lincoln District, Wayne Co.
West Virginia
Elevation: 1416

Way. 571

Examined: 12-16-1948

1 - 4	1807 - 1834	White quartz sandstone. Drills fine individual grains and cream white chert with white quartz veins. Trace of lime shell. Drills medium pieces.
5 - 7	1834 - 1853	White quartz sandstone. Drills individual grains and fine clusters and dove gray mudstone. Trace limey shell. Drills medium pieces.
8- 10	1853 - 1866	Grayish brown limestone. Drills fine to medium fine pieces.
11 - 12	1866 - 1883	Dark brownish gray limestone. Drills medium.
13 - 14	1883 - 1897	White silty limestone. Drills medium fine.
15	1897 - 1898	Dark gray mudstone. Drills medium.
15 - 16	1898 - 1908	Dense very light tan to white limestone. Drills medium to coarse flat pieces.
17	1908 - 1911	White limestone. Drills medium fine.
18 - 21	1911 - 1931	Very light gray limestone. Drills medium to medium fine.
22 - 24	1931 - 1948	Dense light tan limestone, some pink "stain" Drills medium.

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25 - 27	1948 - 1963	Dense white oolitic limestone, oolites near top and do not drill freely. Drills medium.
28	1963 - 1969	Do. More porous.
29 - 33	1969 - 1997	White to very light tan oolitic limestone. Drills into individual oolites. Drills fine.
34 - 36	1997 - 2016	Very light tan silty oolitic limestone, oolites drill free. Drills fine, mostly individual oolites.
37 - 41	2016 - 2050	White oolitic limestone, many oolites drill free, more porous than above in larger pieces, good porosity is noticeable. Drills medium to fine.
42	2050 - 2059	Dense very light tan limestone, some pyrite. Drills medium.
43	2059 - 2066	White limestone and siltstone with much pyrite. Drills medium pieces.
44 - 45	2066 - 2079	White limestone and gray sandstone shell with some pyrite. Drills medium.
45 - 47	2079-- 2097	Red and brownish red muddy siltstone. Drills coarse to medium.
48 - 50	2097 - 2118	Red and brownish red siltstone and very light greenish gray sandstone shell with pyrite. Drills medium.
51	2118 - 2123	Dark gray muddy siltstone pyrite and light greenish gray sandstone shell with pyrite. Drills medium to coarse.
52 - 54	2123 - 2148	Dark gray muddy siltstone and gray sandstone shell, pyrite and a trace of lime shell. Drills medium to medium fine.
55 - 57	2148 - 2176	Gray muddy siltstone and light gray sandstone shell, some pyrite. Drills medium.

***	58	2203 - 2213	Dark gray siltstone with black carbonaceous flakes. Drills medium.
***	59	2642 - 2647	Light gray mudstone and silty sandstone shell with pyrite. Drills medium.
	59 - 60	2647 - 2660	Black Shale, pyrite. Drills medium to medium fine.
	60 - 61	2660 - 2670	Very light gray to white fine grain quartz sandstone, pyrite. Drills fine to medium flat pieces. Limey at base.
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	62	2670 - 2680	Very light tan fine-grained sandstone, pyrite and light gray mudstone, pyrite. Drills medium pieces.
	63 - 64	2680 - 2695	Light brown fine-grained sandstone and gray mudstone. Drills medium to medium fine.
	65 - 67	2695 - 2715	Light gray fine-grained sandstone and gray mudstone. Drills medium to medium fine.
	68 - 69	2715 - 2745	Black Shale 80%, light gray mudstone 20%. Drills medium.
	70 - 73	2745 - 2788	Black Shale and black silty shale. Drills medium to medium fine.
	74	2788 - 2800	Light gray mudstone and silty sandstone shell with pyrite. Drills medium.
***	75 - 80	3040 - 3115	Light gray mudstone and a little siltstone shell and some gray shale. Drills medium.
	81 - 84	3115 - 3163	Light gray mudstone and some Brown Shale 40%. Drills medium.
	85 - 88	3163 - 3216	Light gray mudstone and siltstone shell and light Brown Shale 50%. Drills medium.
	89 - 92	3216 - 3271	Light gray mudstone and gray shale 20%. Drills medium.
	93 - 95	3271 - 3306	Light gray mudstone and some gray shale 10%. Drills medium to coarse.
	96	3306 - 3317	Light gray mudstone and some siltstone shell and light Brown Shale 10%. Drills medium fine.
	97 - 99	3317 - 3353	Light gray mudstone, some pyrite and a little Brown Shale 5%. Drills medium.
	100 - 103	3353 - 3410	Light gray mudstone, some pyrite and light brown and Brown Shale 40%. Drills medium. (Gas 3387 inc. 16 M to 18 M.)
	104 - 105	3410 - 3429	Brown Shale, some spors 80% and light gray mudstone and some pyrite. Drills medium.
	106	3429 - 3437	Light gray mudstone, some pyrite and a little light Brown Shale with spors, 20%. Drills medium.
	107	3437 - 3453	Brown Shale 60% and light gray mudstone and a little siltstone shell. Drills medium.
	108 - 113	3453 - 3516	Dark Brown Shale 85% and some light gray mudstone. Drills coarse to medium (Gas 3453-3468 inc. 18 M to 19 M.)
	114 - 119	3516 - 3604	Dark Brown Shale 80% and light blue gray mudstone with some pyrite and a little siltstone shell. Drills medium.

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120 - 123	3604 - 3652	Dark brown, some light brown, shale - spors and some pyrite 90% and a little gray mudstone. Drills coarse to medium.
124 - 125	3652 - 3681	Dark Brown Shale 75%, very light Brown Shale and blue gray mudstone. Drills medium.
126	3681 - 3687	Black Shale. Drills medium.
127 - 128	3691 - 3712	Light blue gray mudstone with some siltstone shell - pyrite - Brown Shale 10%. Drills medium.
Total Depth	3740	

Shot 9,700# Detonite 2749 - 3740
Test Before Shot 25 M
Tubed Lime 19 M
Shale 117 M, Total 136 M.

Cavings 285'.