

*Permitted by permit No. 161-100-100  
Date 1/1/37*

Peytona Coal Land Company No. 32 (475) Well.

Sherman District, Boone County, W. Va.

By Owens, Libbey-Owens Gas Department.

Drilled under permit Boo-372; WC-Peytona Quadrangle, on Indian Creek.

Elevation, 1297' L. *Cr. 1/4 mi. W. of 317401 4.9 mi. S 1/2 W*

Drilling commenced July 19, 1937; completed Dec. 3, 1937.

Gas well volume 105,000 cu. ft. in Berea and shales below.

A few scattered samples are missing; it is believed that the following section prepared from the samples and supplemented by the driller's record is nearly correct. The top of the Greenbrier limestone may possibly be somewhat higher than indicated. The red siltstone immediately beneath the Greenbrier should probably be correlated with the Maccrady of the outcrop to the southeast, but since the Pococo here contains no distinct sandstone layers except the Berea at the base, there is no satisfactory basis for more detailed correlation.

Depth, feet      Thickness,  
from      to      Feet

Greenbrier Limestone 224 feet.

1904	1945	41	No sample; reported as limestone
1945	1997	52	Limestone, light-gray
1997	2040	43	Limestone, light-gray, oolitic, bottom eight feet is sandy
2040	2056	16	Limestone, gray, dolomitic
2056	2128	72	Limestone, light-gray, dolomitic; mostly oolitic and somewhat sandy

Maccrady and Pococo Formations 506 feet.

2128	2176	48	Siltstone, red
2176	2327	151	Siltstone, gray, with much darker gray shale and a little very fine sandstone
2327	2491	164	Shale, gray, with thin streaks of fine sandstone
2491	2593	102	Shale, gray, with large amount of gray to greenish-gray micaceous siltstone; seems to grade into underlying darker shale
2593	2614	21	Shale, dark-gray (Sumbury Shale)
2614	2634	20	Sandstone nearly white, hard (Berea Sandstone)

Gas at 2634 feet, 83,000 cu. ft.

Depth, feet  
from to Thickness,  
Feet.

Devonian Shales 2547 feet.

2634	3802	1168	Shale, gray, with much gray to grayish-green siltstone, a few scattered samples are more than half siltstone; shale below 3509 feet contains some small spherical pyrite concretions. Gas at 2697 feet, 5,000 cu. ft.; at 2884 feet, 11,000 cu. ft.; at 3578 feet, 10,000 cu. ft.; at 3588 feet, 5,000 cu. ft.
3802	4135	333	Shale, gray, with some siltstones; differs from above in being partly very dark gray and a little finer. Gas at 3884 feet, 3,000 cu. ft.
4135	4165	30	Shale, dark-gray.
4165	4280	115	Shale, gray; medium-gray fragments predominate but samples contain about 10 to 30% of very dark gray to black shale; considerable pyrite throughout
4280	4386	106	Shale, dark-gray. Gas at 4315 feet, 9,000 cu. ft.
4386	4937	551	Shale, gray, with thin streaks of siltstone. Gas at 4677 feet, 5,000 cu. ft.; at 4812 feet, 3,000 cu. ft.
4937	5043	106	Shale, dark-gray, slightly calcareous. Gas at 4954 feet, 8,000 cu. ft.; at 5029 feet, 4,000 cu. ft.
5043	5181	138	Shale, very dark gray to black with considerable pyrite; slightly calcareous

Huntersville Chert 87 feet.

5181	5186	5	Limestone, hard
5186	5207	21	Chert, gray, highly calcareous
5207	5216	9	Chert, dark-gray, calcareous; most of fragments in insoluble residue appear dark-brown by strong light
5216	5245	29	Chert, gray, highly calcareous, with considerable silt or very fine sand, and a little glauconite; some parts of this interval might be called very impure limestone
5245	5249	4	Sandstone, dark-gray, very fine, calcareous, slightly cherty
5249	5252	3	Chert, gray, calcareous
5252	5268	16	Siltstone, gray, calcareous, cherty; contains small glauconite grains and dolomite rhombs; little or no calcite in bottom four feet; thin streak of highly glauconitic and pyritic sandstone at bottom

Criskany Sandstone 10 feet.

5268	5278	10	Sandstone, light-gray, fine, highly calcareous
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Halderberg Group 21+ feet.

5278	5299	21	Limestone, dark-gray, very cherty, somewhat dolomitic (some of this is more chert than limestone)
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