

W. M. Duffield No. 2 (7692) Well

Otter District, Clay County, W. Va.

By Pittsburgh and W. Va. Gas Company, Pittsburgh, Pa.

Located 1.32 mi. W. of 80°55' and 0.82 mi. S. of 38°35' -SW- Cassaway Quadrangle,
1 mi. S. of Duck P. O.

Elevation, 1018 feet, level.

Permit, Clay-159.

Drilling commenced July 15, 1939; completed August 17, 1939.

Shot August 18, 1939, at 1923-1930'.

Gas well; volume, 127,000 cu. ft. per day; rock pressure, 510 lbs.

Fresh water at 28-32, 184-186 and 920'.

13" wood conductor, 10'; 8 1/2" casing, 567'; 6-5/8", 1745'; all left in.

Anchor packer, 8 1/2 x 6-5/8, set at 1745'.

Coal was encountered at 422-424 and 830-831'.
Manch Chunk Group, 216+ feet

Top	Bottom	Thickness	Description
			<u>Pottsville Formation, 95+ feet</u>
1503	1544	41	Sandstone, white, medium-grained, nearly all quartz; much pyrite in sample from 1541 to 1544'
1544	1550	6	Sandstone, light-gray, very fine, calcareous; also a little limestone and green shale
1550	1565	15	Siltstone, gray; almost a sandstone from 1550 to 1557', darker and shaly from 1557 to 1565'
1565	1586	21	Sandstone, gray, fine, partly shaly; contains mica, siderite, pyrite and carbonaceous matter
1586	1596	10	Sandstone, white, fine
			<u>Manch Chunk Group, 125 feet</u>
1596	1603	7	Shale, gray, 70%; gray and brown, fine textured limestone, 30%
1603	1615	12	Shale, red, soft, calcareous
1615	1630	15	Shale, gray, soft
1630	1671	41	Limestone, dark brownish gray, fossiliferous; sample from 1630 to 1639' is about half gray shale and other samples contain a little shale
1671	1680	9	Limestone, light-gray, sandy
1680	1686	6	Siltstone, gray, calcareous
1686	1691	5	Siltstone, gray; darker and finer than last and only slightly calcareous

Top	Bottom	Thickness	
1691	1702	11	No sample
1702	1719	17	Siltstone, gray, shaly, pyritic
<u>Greenbrier Limestone, 215 feet</u>			
1719	1729	10	Limestone, dark brownish gray
1729	1769	40	Limestone, light-gray, mostly brownish when wet
1769	1773	4	Limestone, dark-brown
1773	1776	3	Limestone, light brownish gray
1776	1791	15	Limestone, light brownish gray, oolitic, moderately sandy
1791	1836	45	Limestone, light-gray, mostly somewhat brownish or yellowish when wet; somewhat dolomitic from 1824 to 1829' and 1832 to 1836'
1836	1860	24	Limestone, light-gray, sandy and oolitic
1860	1892	32	Limestone, light-gray, mostly very fine textured
1892	1902	10	Limestone, light-gray sandy, and indistinctly oolitic; larger sand grains are rounded and frosted
1902	1911	9	Limestone, light brownish gray, with a little sand
1911	1915	4	Limestone, light brownish gray, sandy, with a few oolites
1915	1932	17	Limestone, gray, very sandy dolomitic; larger sand grains are rounded and frosted
<u>Maccrady and Pocono Formations, 50+ feet</u>			
1932	1934	2	Shale, gray, silty
1934	1963	29	Siltstone, red and green; with some gray to greenish shale
1963	1982	19	Siltstone, gray to grayish-green; almost a sandstone
	1982		Total depth according to samples
	1977		Total depth reported