

Stephen DeLong No. 19 Well

Washington District, Pleasants County, W. Va.

By South Penn Natural Gas Company, Parkersburg, W. Va.

Located 2.21 mi. S. of 39° 25' and 0.08 mi. W. of 81° 00'. - EC - St.

Marys Quadrangle.

Elevation 1045.74' L.

Permit Please 224.

Completed Dec. 1944.

Gas Well, 31,000 cu. ft.; shot at 1860-1868, 1936-1946'.

Section based on samples from 1570 to 2578' examined by J. H. C. Martens,

Survey has some additional samples.

Top	Bottom	Thick- ness	
<u>Pottsville Formation, 143+ feet</u>			
1570	1623	53	Sandstone, white, medium-grained.
1623	1631	8	Sandstone, light-gray, fine.
1631	1671	40	Sandstone, white to light-gray, medium- to fine-grained.
1671	1713	42	Sandstone, white, medium-grained.
<u>Greenbrier Limestone, 27 feet.</u>			
1713	1717	4	Limestone, brown to white, with much siderite.
1717	1725	8	Limestone, very light brown, oolitic.
1725	1740	15	No sample (bottom of Greenbrier may be above 1740').
<u>Pocono Formation, 547 feet</u>			
1740	1749	9	Sandstone, light gray, fine, 60%; very light brown oolitic limestone with a few rounded and frosted sand grains, 40%.
1749	1763	14	Sandstone, light-gray, very fine.
1763	1790	27	Siltstone, light-gray, partly sandy.
1790	1798	8	Sandstone, nearly white, medium-grained, with many specks of siderite.
1798	1805	7	Siltstone, gray, shaly.
1805	1901	96	Sandstone, light-gray to white, fine- to medium-grained; some pores visible, 1859-1865'.
1901	1916	15	Sandstone, light-gray, very fine.
1916	1923	7	Sandstone, light-gray, very fine, 60%; gray shale, 40%
1923	1930	7	Shale, gray.
1930	1936	6	Sandstone, light-brown, very fine, with a few coarse, rounded grains.

Top	Bottom	Thick- ness	
1936	1942	6	Sandstone, white, medium-grained.
1942	1951	9	Shale, dark-gray, 70%; white, fine sandstone, 30%.
1951	2015	64	No sample.
2015	2020	5	Shale and siltstone, gray.
2020	2040	20	Shale, gray.
2040	2057	17	Siltstone, light-gray, with some darker shale.
2057	2239	182	Shale and siltstone, gray; most of shale is rather dark.
2239	2266	27	Shale, dark-gray, with a little siltstone.
2266	2287	21	Shale, very dark gray with thin streak of fine brownish sandstone at bottom.

(Sunbury Shale and Berea Sandstone)

Devonian Shales, 1220+ Feet.

2287	2349	62	Shale and siltstone, gray.
2349	2357	8	Shale and siltstone, gray, 90%; red shale, 10%.
2357	2367	10	Shale, red, 60%; gray shale and siltstone, 40%.
2367	2426	59	Shale and siltstone, gray.
2426	2430	4	Shale, red, silty, 50%; gray to grayish-green shale and siltstone, 50%.
2430	2438	8	Siltstone, light-gray.
2438	2444	6	Shale, red, silty, 50%; gray to grayish-green shale and siltstone, 50%.
2444	2455	11	No sample.
2455	2465	10	Siltstone and shale, gray to grayish-red.
2465	2482	17	Siltstone and shale, gray.
2482	2498	16	Shale, grayish-red, silty, 60%; gray shale and siltstone, 40%.
2498	2511	13	Shale, gray and grayish-red, silty.
2511	2578	67	Shale and siltstone, gray.
3507			Total depth.