

Clay-212

O. D. Steekly No. 116 Well

Henry District, Clay County, W. Va.

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

Located 2.25 mi. W. of 81°05' and 2.48 mi. S. of 38°35' -SC- Otter Quadrangle; 2.2 mi. N. W. of Valley Fork.

Elevation, 986.28' L.

Permit, Clay-212

Commenced August 9, 1940; completed September 26, 1940.

Shot, October 8, 1940 at 1934 to 1953'.

Oil, 2 bbls. daily after shot; gas, 360 cu. ft.

Fresh water 90 and 430'; salt water 1385' and 1443'.

8 1/4" casing 468'; 6-5/8", 1829'2".

The section is based upon a complete set of samples examined by J. H. C. Martens. The well starts in the lower part of the Conemaugh, but the Pennsylvanian section cannot be satisfactorily subdivided on the basis of samples available.

Top	Bottom	Thickness	
<u>Pennsylvanian, 1850+ feet</u>			
0	52	52	Clay and soft shale, red, calcareous; contains limestone nodules 20 to 52'
52	102	50	Siltstone, light-green, partly calcareous
102	131	29	Sandstone, very light green, medium-grained; contains siderite spherulites
131	147	16	Shale, gray and yellow, soft, 50%; sandstone, as above, 50%
147	155	8	Shale, gray, 80%; limestone, gray, white, and yellow, 20%; perhaps most of limestone occurs as nodules in the shale
155	195	40	Siltstone, green, micaceous and calcareous; includes some very fine sandstone; contains siderite
195	205	10	Sandstone, light-green, very fine, micaceous
205	215	10	Siltstone, green
215	235	20	Sandstone, white, medium-grained, calcareous
235	278	43	Sandstone, white, coarse, slightly calcareous
278	298	20	Sandstone, white, medium-grained, slightly calcareous
298	309	11	Sandstone, white, coarse, slightly calcareous

Top	Bottom	Thickness	
309	388	79	Sandstone, white, medium- to coarse-grained, slightly calcareous
388	398	10	Sandstone, white, medium-grained, 80%; gray shale with siderite spherulites, 20%
398	440	42	Sandstone, white, fine, slightly calcareous; a little coal, 402-412'
440	460	20	Sandstone, light-gray, medium-grained
460	490	30	Sandstone, nearly white with a little rust stain, fine
490	586	96	Sandstone, nearly white to light-gray, medium-grained; calcareous, 514-550'
586	606	20	Siltstone, light-brown and gray, 60%; nearly white sandstone, 40%
606	612	6	Sandstone, light-gray, fine
612	620	8	Siltstone, gray, shaly, micaceous
620	660	40	Shale, gray, very silty, micaceous
660	750	90	Sandstone, very light-gray, medium- to fine-grained; contains small amounts of muscovite, chlorite, kaolin, and siderite
750	780	30	Shale, gray, silty; contains siderite concretions
780	810	30	Siltstone and shale, dark-gray to black; slight trace of coal
810	830	20	Shale, gray, silty
830	860	30	Sandstone, gray, very fine, micaceous, 80%; darker gray shale and siltstone, 20%
860	870	10	Sandstone, white, medium-grained
870	880	10	Shale, black
880	910	30	Siltstone, dark-gray, shaly
910	930	20	Siltstone, gray, shaly, micaceous, 70%; nearly white fine sandstone, 30%
930	940	10	Sandstone, light-gray, fine, siderite
940	960	20	Shale, dark-gray, silty; trace of coal
960	985	25	Siltstone, gray, sandy, micaceous
985	1030	45	Sandstone, white, medium-grained; not very strongly cemented; contains muscovite, chlorite, and kaolin
1030	1080	50	Sandstone, nearly white, fine, 60%; dark-gray shale and siltstone, 40%

Top	Bottom	Thickness	
1080	1100	20	Shale, dark-gray, with siderite concretions
1100	1110	10	Shale, gray
1110	1130	20	Siltstone, very light-brown
1130	1160	30	Sandstone, white, medium-grained; contains muscovite, chlorite, and kaolin
1160	1170	10	Sandstone, like that above, 60%; dark-gray silty shale, 40%
1170	1180	10	Sandstone, nearly white, fine, micaceous, slightly calcareous
1180	1235	55	Shale, very dark gray to black, silty; contains some siderite concretions
1235	1320	85	Sandstone, white, fine, nearly all quartz; some thin dark shaly streaks
1320	1350	30	Sandstone, white, medium- to coarse-grained; moderate amount of rust stain
1350	1620	270	Sandstone, white, medium-grained, nearly all quartz; many grains have crystal faces; mostly broken up into individual grains; small to moderate amount of rust stain
1620	1650	30	Sandstone, white, very coarse; a little green shale in sample from 1640 to 1650'

Mauch Chunk Group, 153 feet

1650	1660	10	Shale, gray to grayish-green, partly silty
1660	1670	10	Siltstone, gray, shaly, slightly dolomitic
1670	1680	10	Shale, red, soft, calcareous, 60%; gray shale, 40%
1680	1700	20	Shale, red, soft, calcareous
1700	1710	10	Shale, green and gray, soft; a few fragments of dolomitic limestone
1710	1720	10	Shale, green and gray, soft, slightly calcareous, partly silty
1720	1730	10	Shale, gray and green, soft, distinctly laminated, 80% brown limestone, 20%
1730	1760	30	Limestone, brown
1760	1788	28	Limestone, brown, 40%; soft gray shale, 40%; fine white calcareous sandstone, 20%
1780	1796	16	Sandstone, nearly white, fine, calcareous (show of oil 1788')
1796	1803	7	Shale, gray, soft, distinctly laminated ("Pencil Cave")

Top Bottom Thickness

Greenbrier Limestone, 131 feet

1803	1810	7	Limestone, light-brown
1810	1845	35	Limestone, very light brown
1845	1873	28	Limestone, nearly white; contains a few oolites
1873	1880	7	Limestone, very light brown, sandy; contains a few oolites
1880	1897	17	Limestone, very light brown, oolitic; contains some sand but much less than from 1873 to 1880'
1897	1917	20	Limestone, nearly white, oolitic; oolites are abundant and distinct
1917	1925	8	Limestone, very light brown, light-green and light-red; very fine textured
1925	1934	9	Limestone, very light green, very fine textured

Pocono Formation, 42+ feet

1934	1945	11	Sandstone, light grayish green, fine; some slightly calcareous (oil 1934-1952'; gas 1934-1952')
1945	1954	9	Siltstone, green, sandy, 60%; gray shale, 40%
1954	1969	15	Siltstone, gray and green, sandy, 80%; red shale, 10%; gray shale, 10%
1969	1977	8	Sandstone, light-brown and light-green, fine to very fine,
	1977		Total depth