

Annie McPherson No. 1 Well

Clay District, Wood County, W. Va.

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

Located 0.55 mi. N. of 39°15' and 3.57 mi. W. of 81°25' - NW - Elizabeth
Quadrangle.

Elevation, 874.38' L.

Permit 600-123

Drilling commenced Sept. 1, 1942; completed Oct. 30, 1942.

Dry hole.

10" casing, 17'; 8 1/2", 317'; 6 5/8", 1120'; 5 3/16, 1920'.

Section based on samples from 890 to 2400' examined by J. H. C. Martens.

Top	Bottom	Thickness	
<u>Pennsylvanian, 350+ feet</u>			
890	904	14	Sandstone, white, medium-grained
904	920	16	Siltstone, green, micaceous
920	925	5	Limestone, white
925	930	5	Shale, gray and green
930	935	5	Shale, gray silty
935	940	5	Shale, gray, soft, clayey; trace of coal
940	950	10	Clay, gray, with small limy concretions
950	955	5	Clay, gray and red, with small limy concretions
955	963	28	No sample
963	988	5	Clay, red and yellow, with limy concretions; also some green shaly siltstone
988	1000	12	Shale, green, mostly silty; also red and yellow clay, probablyavings
1000	1034	34	Shale, gray, silty (one sample)
1034	1060	26	Siltstone, gray
1060	1070	10	Shale, gray, silty, 70%; brown li estone, 30%
1070	1080	10	Shale, black, with fossil shells
1080	1090	10	Clay, light-gray, soft
1090	1096	6	Clay, nearly white, with some red and yellow
1096	1104	8	Shale, and siltstone, light-green, micaceous
1104	1109	5	Clay, gray and red, soft (avings?)
1109	1128	19	Sandstone, light-gray, very fine, micaceous; nearly a siltstone at top, becoming slightly coarse toward bottom

Top	Bottom	Thickness	
1128	1220	92	Sandstone, white, medium- to fine-grained
1220	1235	15	Shale, gray, silty, with fragments of siderite concretions
1235	1253	18	Shale, gray to greenish, micaceous, 70%; light-gray limestone, 30% (one sample)
1253	1270	17	Siltstone, gray, micaceous
1270	1285	15	Shale, gray, silty
1285	1297	12	Sandstone, gray, very fine, micaceous
1297	1325	28	Shale, gray to dark-gray; trace of coal, 1310-1325'
1325	1340	15	Siltstone, white, micaceous, with siderite spherulites
1340	1360	20	Sandstone, white, fine
1360	1365	5	Shale, gray to dark-gray
1365	1380	15	Sandstone, very light brown, very fine
1380	1440	60	Sandstone, white to light-gray, fine
1440	1490	50	Siltstone, gray to dark-gray, sandy
1490	1505	15	Shale, dark-gray, silty
1505	1527	22	Sandstone, gray, very fine
1527	1538	11	Sandstone, white, fine
1538	1549	11	Siltstone, gray, shaly, 50%; nearly white, very fine sandstone, 50%
1549	1571	22	Sandstone, light-gray, fine; contains siderite, mica, and carbonaceous matter
1571	1587	16	Sandstone, white, medium-grained, 50%; dark-gray shaly siltstone, 50%
1587	1633	46	Sandstone, white to light-gray, fine
1633	1639	6	Shale, dark-gray silty, 60%; white fine sandstone, 40%
1639	1708	67	Sandstone, white to light-gray, fine
1708	1740	32	Sandstone, white with some rust stain, medium- to coarse-grained; some siderite cement, 1730-1740'
			<u>Greenbrier Limestone, 51 Feet</u>
1740	1757	17	Sandstone, nearly white, fine, dolomitic
1757	1771	14	Dolomite, white, very sandy; larger sand grains are rounded and frosted (interval 1693-1810' all reported as sand)

Top Bottom Thickness

Pocono Formation, 493 feet

1771	1782	11	Sandstone, nearly white, medium- to fine-grained; some gray clay, probably oavings
1782	1796	14	Siltstone and shale, gray
1796	1810	14	Sandstone, light-gray, very fine, 70%; gray shale and siltstone, 30%
1810	1820	10	Siltstone and shale, gray
1820	1840	20	Sandstone, light-gray very fine, 60%; gray siltstone, 40%
1840	1849	9	Sandstone, light-gray, very fine
1849	1875	26	Siltstone, gray, with up to 20% of darker gray shale
1875	1885	10	Sandstone, white to light-brown, fine, 70%; gray shale and siltstone, 30%
1885	1915	30	Shale and siltstone, gray
1915	1927	12	Sandstone, light-gray, very fine
1927	1960	33	Shale, gray (one sample)
1960	1965	5	Sandstone, light-gray, very fine, with many fossil shells
1965	1999	34	Shale and siltstone, gray; also a little very fine sandstone (one sample)
1999	2035	36	Sandstone, nearly white, very fine; also some gray shale
2035	2060	25	Siltstone and shale, gray
2060	2075	15	Siltstone, light-gray
2075	2090	15	Shale and siltstone, gray
2090	2115	25	Siltstone and shale, gray
2115	2178	63	Shale, dark-gray, silty
2178	2196	18	Siltstone and shale, gray
2196	2232	36	Shale, gray
2232	2260	28	Shale, very dark gray (Sumbury Shale)
2260	2264	4	Sandstone, light-gray to white, fine to very fine, pyritic (Berea Sandstone)

Top Bottom Thickness

Devonian Shales, 130+ feet

2264	2357	93	Siltstone, light-gray; also a little gray silty shale
2357	2376	19	Shale and siltstone, gray
2376	2377	1	Siltstone, nearly white, sandy
2377	2381	4	Shale, dark-gray, silty
2381	2386	5	Siltstone, gray, shaly
2386	2388	2	Siltstone, light-gray, sandy
2388	2400	12	Shale and siltstone, gray
	2400		Total depth