

Susan A. Miller No. 7041 Well

Washington District, Boone County, W. Va.

By Hope Natural Gas Company, Clariksburg, W. Va.

Located 1.13 mi. W. of 81°50' and 4.6 mi. S. of 38°05' -50- Madison Quadrangle, on Low Gap Creek, 2 mi. S. W. of Middleton.

Elevation, 9351 ft.

Permit 800-427

Drilling commenced May 30, 1939; completed June 27, 1939.

Shot June 23, 1939 at 1089 to 1901'.

Open flow, 500,000 cu. ft. per day.

Fresh water at 17, 107, 210 and 289'.

Salt water at 412 and 537'.

Casing, 10", 140'; 8 1/2", 292'; 6 5/8", 1223'.

Top	Bottom	Thickness	
			<u>Greenbrier Limestone, 210 feet</u>
1165	1230	45	No sample
1230	1345	15	Limestone, brownish-gray, sandy, oolitic; oolites mostly not very distinct
1345	1270	25	Limestone, brownish-gray
1270	1235	15	Limestone, light-gray to brownish, oolitic; some sand from 1230 to 1235' (little gas at 1230')
1235	1295	10	Limestone, light brownish gray, finely crystalline, somewhat dolomitic
1295	1330	35	Limestone, brownish-gray, oolitic; some fragments are reddish; contains only a few scattered sand grains (gas at 1324 to 1327')
1330	1355	25	Limestone, gray, finely crystalline, somewhat dolomitic; a few oolites from 1330 to 1340'
1355	1395	30	Limestone, brownish-gray, very fine textured
1395	1395	10	Limestone, light-gray, dolomitic, sandy; contains well rounded, medium-grained sand and very fine angular sand
			<u>Macondy Formation, 30 feet</u>
1395	1425	30	Siltstone, red, micaceous; some red and gray shale from 1415 to 1425'
			<u>Pocahontas Formation, 454 feet</u>
1425	1465	40	Shale, gray, silty, interbedded with nearly equal amount of siltstone
1465	1515	50	Siltstone, gray, shaly, micaceous; contains both biotite and muscovite
1515	1520	5	Sandstone, light-gray, very fine, 80% darker gray shale and siltstone, 40%
1520	1575	55	Siltstone, gray; contains mica, pyrite and specks of carbonaceous matter; some fragments are coarse enough to be classified as very fine sandstone

Top Bottom Thickness

Top	Bottom	Thickness	
1575	1580	5	Siltstone, gray, 80%; light brownish gray, fine-textured limestone, 20% (the limestone may be cavings from the Greenbrier)
1580	1590	10	Siltstone, gray
1590	1790	190	Shale, gray; with very small amounts of siltstone
1790	1800	90	Shale, gray, 70%; gray to brown siltstone and very fine sandstone, 30%
1800	1878	18	Shale, black and dark-gray (Sunbury Shale)
1878	1881	3	Sandstone, nearly white, with much pyrite in some fragments
1881	1889	8	Sandstone, nearly white, coarse, pebbly
1889	1909	20	Sandstone, white with a little yellow stain fine, slightly dolomitic; some large gray shale fragments in samples from 1888 to 1909; (Berea Sandstone 1878 to 1909; first gas pay at 1881' increasing to 2 8/10 mercury in 1 1/2" at 1895)
			<i>Devonian Shales 41+ feet</i>
1909	1918	9	Siltstone, gray; with some shale
1918	1950	32	Shale, gray, silty
	1950		Total depth