

Jeff L. Kelley No. 8541 Well

Center District, Calhoun County, W. Va.

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

Located 0.2 mi. S. of 38°55' and 0.8 mi. W. of 81°05' --- Arnoldsburg
 Quadrangle.

Elevation 893' L.

Permit Cal -588

Drilling commenced May 5, 1941; completed May 30, 1941.

Gas well; 127,000 cu. ft.

10" casing 201'; 8 1/2", 866'; 6 5/8", 1527'.

No coal and no water recorded.

Section based on samples from 1218 to 1678', examined by C. H. Apssouri.

Top Bottom Thickness

Pottsville Formation, 147+ feet

1218	1245	27	Sandstone, white, very fine, with muscovite, siderite, and chlorite
1245	1251	6	Shale, dark-gray
1251	1262	11	Shale, light-brown, with siderite spherulites
1262	1315	53	Shale, gray to dark-gray
1315	1332	17	Shale, light-gray, 70%; dark-gray shale, 30%
1332	1344	12	Shale, gray to dark-gray
1344	1372	28	Sandstone, white, fine
1372	1403	31	Shale, gray, 60%; white sandstone, 40%
1403	1452	49	Sandstone, white, medium- to fine-grained, nearly all quartz
1452	1465	13	Sandstone, white, coarse

Mauch Chunk Group, 35 feet

1465	1493	28	Limestone, gray to brown, fossiliferous; thin streak of gray shale at or near top ("Little Lime")
1493	1500	7	Shale, gray, soft, thinly laminated ("Pencil Cave")

Greenbrier Limestone, 160 feet

1500	1510	10	Limestone, light-brown, fossiliferous
1510	1535	25	Limestone, very light-brown, oolitic
1535	1562	27	Limestone, very light-brown
1562	1569	7	Limestone, brown
1569	1575	6	Limestone, very light brown, somewhat dolomitic, 75%; gray, sandy limestone, 25%

Top	Bottom	Thickness	
1575	1582	7	Limestone, nearly white, oolitic, with a little sand
1582	1591	9	Limestone, nearly white, 50%; green dolomitic limestone, 50%
1591	1607	16	Limestone, nearly white, oolitic, very sandy
1607	1614	7	Sandstone, white, very fine, calcareous
1614	1620	6	Limestone, nearly white, sandy; coarser sand grains are rounded and frosted
1620	1660	40	Limestone, light-brown, sandy and dolomitic (gas 1619-1650')
			<u>Pocono Formation, 25+ feet</u>
1660	1678	18	Siltstone, green, sandy, 60%; gray shale, 40%
	1685		Total depth