

W. S. Hatfield et al No. 401 Well

Washington District, Boone County, W. Va.

By the Owens, Libbey-Owens Gas Dept., Charleston, W. Va.

Located 3.44 mi. N. of 81°45' and 4.58 mi. E. of 38°05' - SE - Madison
 Quadrangle.

Elevation 1140' L.

Permit Boo-392

Drilling commenced August 23, 1937; completed October 30, 1937.

Shot October 23, 1937, at 2233-2261½'.

Volume, 149,000 cu. ft.

Rock pressure, 262 lbs. in 36 hrs.

Section based on samples from 2224 to 2264' examined by J.H.C. Martens.

Top	Bottom	Thickness	
2224	2234	10	Shale, very dark gray (Sunbury Shale; top from driller's record)
2234	2250	16	Sandstone, nearly white poorly sorted; contains some coarse grains but is mostly fine concentration of pyrite at top; some fragments of very coarse pebbly sandstone blown out by shot; these show rather large pore spaces and are composed mostly of quartz with crystal faces developed on some grains; one fragment shows contact of coarse pebbly sandstone with fine sandstone (Berea Sandstone)
2250	2260	10	Sandstone, nearly white, fine, slightly calcareous
2260	2264	4	Shale, gray
	2292		Total depth

Record of gauge on gas:

2239	4/10	W in 1"	2264	4/10	W in 2"
2245	8/10	W in 2"	From driller's record Big Line 1531-		
2250	7/10	W in 2"	1762; Big Injun Sand, Red hard		
2256	6/10	W in 2"	1791-1816		
2260	5/10	W in 2"			