

G. W. Casto et al No. 1 (521) Well

Union District, Putnam County, W. Va.

By West Virginia Gas Corporation, Charleston, W. Va.

Located 0.5 mi. S. of 38° 40' and 4.32 mi. W. of 81° 40' - WC - Kenna
Quadrangle.

Elevation, 779.08' D.

Permit (Put-272.)

Drilling commenced March 11, 1944; completed May 23, 1944.

Oriskany gas well; volume 1,186,000 cu. ft.

Section based on samples from 1758 to 4979' examined by J. H. C. Martens,
omitting most of Devonian Shales. Survey also has samples from
970 to 1758'.

Pottsville Formation, 113+ feet

Top.	Bottom.	Thick- ness.	
1758	1815	57	Sandstone, white, coarse, nearly all quartz
1815	1819	4	Shale, very light brown, 60%; dark-gray shale, 40%
1819	1839	20	Clay, light-gray to light-brown, soft, 70%; coal and black shale, 30%
1839	1871	32	Sandstone, white, coarse to very coarse

Greenbrier Limestone, 108 feet

1871	1878	7	Limestone, light-brown, oolitic
1878	1883	5	Limestone, light-brown
1883	1900	17	Limestone, nearly white, very sandy; contains a few oolites
1900	1908	8	Limestone, very light brown, oolitic, moderately sandy
1908	1920	12	Limestone, nearly white, oolitic, slightly sandy
1920	1928	8	Limestone, nearly white
1928	1932	4	Limestone, very light brown and reddish
1932	1940	8	Limestone, nearly white
1940	1959	19	Limestone, very light brown to white, oolitic, slightly sandy
1959	1979	20	Limestone, white to gray, highly dolomitic, containing a few coarse, rounded sand grains; also some greenish dolomitic shale and siltstone

Pocono Formation, 499 feet

Top	Bottom	Thick- ness.	
1979	1986	7	Siltstone, light-gray
1986	2009	23	Sandstone, nearly white, very coarse, pebbly
2009	2041	32	Sandstone, white, mostly fine with a few very coarse grains
2041	2069	28	Sandstone, light-gray, medium-to fine-grained, 60%; dark-gray, silty shale, 40%
2069	2108	39	Sandstone, light-gray, fine; calcareous, 2095-2100'; some gray shale throughout
2108	2132	24	Shale, gray
2132	2176	44	Siltstone and silty shale, gray
2176	2288	112	Siltstone, light-gray, coarse; also small amount of gray shale
2288	2331	43	Siltstone and shale, gray
2331	2454	123	Shale, gray to dark-gray, silty
2454	2470	16	Shale, very dark gray (Sunbury Shale)
2470	2478	8	Sandstone, white, very fine (Berea Sandstone)

Devonian Shales, 2371 feet

2478	2492	14	Shale, greenish-gray, silty
2492	2515	23	Shale and fine siltstone, gray to grayish-green
2515	4788	2273	Samples not examined.
4788	4849	61	Shale, dark-gray to black

Huntersville Chert, 91 feet

4849	4940	91	Chert and cherty limestone, light-brown to light-gray
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Oriskany Sandstone, 39 feet

4940	4969	29	Sandstone, white, medium-grained, calcareous
4969	4976	7	No sample
4976	4979	3	Sandstone, light-gray, medium-grained, calcareous, 70%; gray sandy limestone, 30%; bottom of Oriskany may be in this interval

4983 Total depth.