

Nancy J. Rush No. 1 (1540) Well

Proctor District, Wetsel County, W. Va.

By Carnegie Natural Gas Company.

Located 4.15 mi. W. of 80°35' and 2.9 mi. S. of 39°45' -NC- Littleton Quadrangle.

Elevation, 1120' L.

Permit, Wet-220.

Drilling commenced April 4, 1939; completed May 1, 1939.

Gas well; volume 1,015,000 cu. ft. per day.

10" casing, 30'; 8 1/4", 1647'; 6-5/8", 2253'.

Fresh water at 892'; salt water at 1690'.

Samples from 1395 to 1880' examined by J. M. C. Martens; the base of the Conemaugh and base of the Allegheny are not determined with any great certainty.

Top Bottom Thickness

786	790	4	Sewickley coal (from driller's record)
890	894	4	Pittsburgh coal (from driller's record)

Conemaugh Formation, 564 feet

1395	1405	10	Sandstone, gray, very fine, shaly, micaceous
1405	1443	38	Sandstone, white, coarse; contains a little white clayey material
1443	1458	15	Shale and siltstone, dark-gray

Allegheny Formation, 220 feet

1458	1472	14	Shale, dark-gray; also some brown limestone
1472	1485	13	Limestone, dark-brown
1485	1512	27	Shale, light-gray, silty
1512	1523	11	Sandstone, light-gray, very fine, 70%; gray to black shale, 30%
1523	1536	13	Shale, gray, silty
1534	1546	12	Shale, black
1546	1612	66	Shale and siltstone, gray to dark-gray; contains siderite concretions
1612	1625	13	Sandstone, white, medium-grained
1625	1649	24	Shale, gray, silty; a little black shale and trace of coal
1649	1678	29	Shale, dark-gray, silty

Top	Bottom	Thickness	<u>Pottsville Formation, 216+ feet</u>
1678	1700	22	Sandstone, white, medium-grained; crystal faces on many of grains
1700	1724	24	Siltstone, dark-gray, shaly, micaceous
1724	1738	14	Shale, gray, silty
1738	1752	14	Shale, very light brown, with some gray; contains siderite spherulite
1752	1778	26	Sandstone, light-gray, medium-grained, micaceous, sideritic
1778	1790	12	Shale, nearly white, silty
1790	1802	12	Siltstone, dark-gray, shaly, micaceous
1802	1845	43	Shale, dark-gray to black
1845	1873	28	Siltstone, dark-gray, shaly
1873	1880	7	Sandstone, white, fine
	1894		Total depth; gas at 1882-1893' in sand designated as maxton in driller's record