

W. W. Campbell No. 1 Well

Union District, Pleasants County, W. Va.

By J. C. Benedum.

Located 2.33 mi. W. of 81°05' and 3.38 mi. S. of 39°30' - NC - St. Marys

Quadrangle.

Elevation, 610' L.

Permit PL205-212.

Drilling commenced May 7, 1942; completed Jan. 30, 1943.

Dry hole.

Section based on samples from 500 to 5260' and 5336 to 5588' examined by

C. H. Apocuri and J. H. C. Martens. The location of the Berea Sandstone horizon and determination of the thickness of the Pocono are very uncertain.

The well apparently starts in the Monongahela Formation.

Top Bottom Thickness

Pennsylvanian, 1265+ feet

Top	Bottom	Thickness	
0	500	500	No samples
500	506	6	Shale, red
506	512	6	Siltstone, gray, sandy, with siderite spherulites, 80%; red shale, 20%
512	530	18	Shale, dark-green, silty
530	536	6	Shale, greenish-gray, 90%; brown limestone, 10%
536	541	5	Limestone, brown, 50%; gray shale, 50%
541	549	8	Shale, gray and green
549	566	17	Siltstone, gray, sandy
566	587	21	Shale, gray
587	598	6	Shale, gray, 60%; dark-gray shale, 40%
598	600	7	Shale and clay, gray, 70%; very dark carbonaceous shale with coal, 30%
600	606	6	Shale, gray to dark-gray
606	618	12	Shale, very light yellowish-gray, soft
618	623	5	Shale, red and yellow, disintegrating in water, 60%; gray, sandy siltstone, 40%
623	636	13	Shale, dark grayish-green, with siderite spherulites, 30%; gray siltstone, 20%
636	642	6	Shale, grayish-green, with small limy concretions, 90%; red shale, 10%

Top	Bottom	Thickness	
642	648	6	Shale, red, 60%; gray and green shale, 40%
648	700	52	Shale, gray to grayish-green
700	705	5	Sandstone, white, very fine, micaceous
705	710	5	Sandstone, white, very fine, 60%; gray shale, 40%
710	728	18	Shale, greenish-gray
728	740	12	Shale, green, soft, with limy concretions
740	746	6	Shale, white
746	751	5	Siltstone, green, sandy
751	766	15	Shale, gray, with some siltstone
766	803	37	Sandstone, white, medium-grained
803	815	12	Shale, and siltstone, gray, 95%; coal, 5%
815	823	8	Shale, gray, silty
823	848	25	Shale and siltstone, gray
848	866	18	Shale, gray, 95%; gray limestone, 5%
866	872	6	Shale, red, 80%; coal, 20%
872	883	11	Shale, gray to brown
883	898	15	Sandstone, white
898	903	5	Shale, gray, clayey, 60%; white sandstone, 40%
903	908	5	Shale, gray, 70%; white sandstone, 30%
908	914	6	Siltstone, gray, shaly
914	926	12	Shale, gray, silty
926	932	6	Siltstone, white, coarse
932	938	6	Shale, gray, silty
938	946	8	Sandstone, white, 50%; gray shale, 50%
946	958	12	Siltstone, gray
958	1001	43	Shale, gray
1001	1012	11	Shale, gray to very dark gray with coal, 65%; white sandy siltstone, 35%
1012	1020	8	Shale, gray, with coal, 95%; white siltstone, 15%
1020	1026	6	Shale, gray, silty, 60%; white sandy siltstone, 40%
1026	1054	28	Sandstone, white
1054	1060	6	Shale, gray, micaceous, with siderite spherulites
1060	1068	8	Sandstone, white
1068	1080	12	Sandstone, white, 50%; gray shale, 50%
1080	1102	22	Shale and siltstone, gray

Top	Bottom	Thickness	
1102	1141	39	Sandstone, white
1141	1163	22	Shale, very dark gray
1163	1175	12	Shale, gray, silty
1175	1187	12	Shale, gray, 50%; white, very fine sandstone, 50%
1187	1195	8	Sandstone, white, very fine
1195	1240	45	Shale, gray to brown; 5% of coal, 1228-1240'
1240	1265	25	Siltstone, gray, very sandy; also some gray and black shale and some siderite
<u>Greenbrier Limestone, 17 feet</u>			
1265	1277	12	Limestone, light-brown, partly oolitic
1277	1282	5	Limestone, light-brown; there are some well rounded sand grains embedded in the limestone; also considerable coarse white sandstone from below the limestone
<u>Pocono Formation, 490 feet</u>			
1282	1291	9	Sandstone, white, coarse to very coarse (show of gas, 1281-1291')
1291	1295	4	Sandstone, white, medium-grained
1295	1320	25	Sandstone, light-gray, very fine; contains many small specks and some larger pieces of siderite
1320	1331	11	Siltstone, light-gray, coarse, with siderite spherulites, 70%; gray shale, 30%
1331	1349	18	Shale, gray, 70%; white sandstone, 30%
1349	1359	10	Sandstone, white, with some coarse grains
1359	1436	77	Sandstone, white
1436	1466	30	Sandstone, white, 85%; gray shale, 15%
1466	1483	17	Sandstone, white, medium- to coarse-grained
1483	1500	17	Sandstone, white, fine
1500	1517	17	Shale, gray
1517	1543	26	Shale and siltstone, gray
1543	1552	9	Shale, gray
1552	1594	42	Shale and siltstone, gray
1594	1615	21	Siltstone, gray
1615	1630	15	Shale and siltstone, gray
1630	1640	10	Shale, gray, silty

Top	Bottom	Thickness	
1640	1662	12	Siltstone, gray, sandy
1662	1726	73	Shale and siltstone, gray
1726	1772	47	Shale, dark-gray, partly silty; sample from 1764-1772' contains a very few pieces of fine white sandstone (Sunbury Shale) and (Berea Sandstone?)
<u>Devonian Shales, 3532 feet</u>			
1772	1786	13	Siltstone, gray, 70%; gray shale, 30%
1786	1801	16	Shale, gray to dark-gray, with a little siltstone
1801	1848	47	Shale and siltstone, gray; much of the shale is rather dark
1848	1854	6	Shale, dark-gray
1854	1866	12	No sample
1866	1883	17	Siltstone, light-gray, sandy, 80%; gray shale, 20%
1883	1932	49	Siltstone, gray to light-gray, 60 to 80%; gray shale, 40 to 20%
1932	1939	7	Shale, grayish-red, silty, 80%; grayish-green shale and siltstone, 20%
1939	1949	10	Siltstone, light-gray to greenish, sandy, 80%; gray shale, 20%
1949	1956	7	Siltstone, light-gray to greenish, 60%; red silty shale, 20%; gray silty shale, 20%
1956	1995	39	Siltstone and silty shale, grayish-green
1995	2004	9	Siltstone, light-grayish green, 60%; red shale and siltstone, 40%
2004	2026	22	Siltstone, red, shaly, 60%; grayish-green siltstone and shale, 40%
2026	2059	33	Siltstone, grayish-green, 60%; fine red siltstone, 20%; gray shale, 20%
2059	2080	21	Siltstone, light-gray to grayish-green, partly sandy, 50%; gray shale, 50%
2080	2142	62	Siltstone, grayish-green, 70 to 80%; grayish-red siltstone, 10 to 20%; gray shale, 10% (no red shale or siltstone shown by samples below this depth)

Top	Bottom	Thickness	
2142	2166	24	Siltstone and shale, light-gray to grayish-green
2166	2200	34	Sandstone, light-gray to greenish, very fine, 60%; gray to green shale and siltstone, 40%; (the sand- stone of these samples is not much different from the associated siltstones)
2200	2220	20	Shale and siltstone, gray to grayish-green
2220	5260	3040	Various shales and siltstones; detailed description omitted
5260	5326	66	No samples
			<u>Huntersville Chert or Onondaga Limestone, 206 feet</u>
5304	5510	206	Limestone and chert, gray to brownish (top from driller's record; show of gas 5484-5485')
5510	5513	3	<i>Oriskany Sandstone, 78 + 100'</i> Sandstone, white, fine, calcareous; a few grains of very dark green glauconite
5513	5540	27	Sandstone, fine, somewhat calcareous; samples are broken up very fine and heavily stained with rust (show of gas, 5513-5515 $\frac{1}{2}$ ')
5540	5558	18	Sandstone, gray, fine to very fine, calcareous
5558	5564	6	No sample
5564	5575	11	Sandstone, white to gray, very fine, calcareous
5575	5588	13	Sandstone, gray, very fine, highly calcareous
	5588		Total depth by samples
	5577		Total depth by record