

Anna E. Parks No. 1 (6114) Well

Southwest District, Doddridge County, W. Va.

By Pittsburgh and West Virginia Gas Co., Pittsburgh, Pa.

Located 0.14 mi. W. of 80°50' and 5.4 mi. S. of 80°45' -NC- Holbrook Quadrangle;
1 mi. N. of Summers.

Elevation, 991' B.

Permit, Dod-98,

Drilling commenced June 27, 1939; completed, July 28, 1939.

Shot July 31, 1939; at 1844-1850'.

Gas well; volume, 130,000 cu. ft. per day; rock pressure, 638 lbs. in 65 hrs.

Fresh water at 130 and 210'; salt water at 1624'.

15" wood conductor, 10' (pulled); 10" casing, 325'; 8 $\frac{1}{4}$ ", 1008'; 6-5/8", 1763';
3" tubing, 1885'.

Anchor packer, 8 $\frac{1}{4}$ " x 6-5/8", set at 1761'.

Packer, 6-5/8" x 3", set at 1792'.

Coal was encountered at 717-718'.

The section is based upon a complete set of samples between 95 and 1885', examined by J. H. C. Martens. The well starts in the lower part of the Dunkard Group at an elevation about 450 feet above that of the Pittsburgh Coal horizon, but no trace of this coal was found in the samples. The location of the Pottsville-Mauch Chunk boundary is very doubtful.

Top	Bottom	Thickness	
<u>Permian and Pennsylvanian, 1646+ feet</u>			
0	6	6	Soil, red, open
6	44	38	Sand, brown, hard
44	105	61	Shale, red, soft
105	128	23	Sandstone, light-green, fine, calcareous
128	142	14	Sandstone, nearly white, medium-grained (water, 130', $\frac{1}{2}$ bailer per hour)
142	160	18	Clay, yellow and gray, highly calcareous
160	183	23	Clay and soft shale, red, calcareous
183	210	27	Sandstone, light-green, very fine, calcareous, micaceous (water, 210', 1 bailer per hour)
210	222	12	Sandstone, gray, very fine, calcareous

Top	Bottom	Thickness	
222	228	6	Sandstone, green, very fine, calcareous and micaceous
228	247	19	Limestone, light-gray to yellow, 40%; red and brown clay and shale, 40%; green siltstone, 20%; perhaps amount of limestone in samples has been increased by washing out clay
247	272	25	Siltstone, light-green, micaceous, calcareous
272	275	3	Shale, red and gray, soft
275	290	15	Siltstone, green, micaceous, calcareous; almost coarse enough to be sandstone
290	313	23	Shale, red, soft, calcareous; contains limestone nodules
313	348	35	Siltstone, gray and green, shaly, 60%; calcareous red clay and shale, 40%
348	360	12	Sandstone, green, very fine, shaly, micaceous
360	382	22	Siltstone, green, shaly, micaceous and calcareous; samples also contain much red clay and some limestone nodules, probably cavings
382	395	13	Shale, gray, soft, 50%; gray and green micaceous siltstone, 50%
395	400	5	Limestone, brown
400	423	23	Limestone, light-brown, 50%; red, gray, and green clay, 50%
423	478	55	Sandstone, green, very fine, micaceous; calcareous and lighter colored, 460-478'
478	500	22	Shale, gray, silty, 60%; green micaceous siltstone, 40%
500	522	22	Shale, dark-gray and brown, soft, 80%; impure brown limestone, 20%
522	542	20	Shale, red, soft, with limestone nodules
542	557	15	Clay, red, gray, and yellow, with limestone nodules
557	570	13	Clay, red, calcareous, 50%; green calcareous siltstone, 50%
570	628	58	Clay, red, calcareous; contains small limestone nodules
628	660	32	Shale, green, partly silty, 60%; fine white to green sandstone, 40%; some red clay cavings
660	668	8	Limestone, light-brown
668	675	7	Clay, red, soft, calcareous
675	698	23	Clay, red, 70%; green sandy shale, 20%; light-brown and green limestone, 10%

Top	Bottom	Thickness	
698	717	19	Shale, gray
717-	718	1	Coal
718	728	10	Siltstone, gray, micaceous
728	735	7	Limestone, light-brown
735	763	28	Limestone, light-brown, 40%; red clay, 40%; gray and green shale, 20%
763	788	25	Clay and soft shale, red, yellow and green, 80%; yellow limestone, 20% (probably occurs as nodules in the clay)
788	810	22	Siltstone, gray, shaly; contains siderite spherulites
810	828	18	Shale, gray, soft
828	844	16	Siltstone, grayish-green, sandy; has streaks or nodules of yellow limestone
844	874	30	Sandstone, white, medium-grained
874	908	34	Sandstone, white, coarse (show of gas and oil, 886')
908	922	14	Shale, dark-gray to black (SLN, 911')
922	935	13	Sandstone, nearly white, medium-grained
935	956	21	Clay, gray, soft
956	968	12	Siltstone, gray, micaceous; grades into very fine sandstone toward bottom
968	977	9	Sandstone, gray, very fine
977	1048	69	Siltstone and shale, gray, micaceous
1048	1066	20	Shale, gray, soft; small amount of limestone
1066	1129	63	Sandstone, white with green specks, medium- to coarse-grained
1129	1139	10	Siltstone, gray, shaly, micaceous
1139	1149	10	Shale, gray, soft, with siderite concretions
1149	1165	16	Shale, gray, soft, 80%; white, medium-grained sandstone, 20%
1165	1198	33	Sandstone, white with some brown, medium-grained; contains siderite, 1165-1180' (show gas and oil, 1180')
1198	1210	12	Shale, light-gray, soft; contains siderite spherulites
1210	1231	21	Siltstone, light-gray, shaly
1231	1281	50	Siltstone, dark-gray, shaly, micaceous
1281	1310	29	Shale, dark-gray, silty
1310	1330	20	Siltstone, light grayish yellow, with siderite spherulites
1330	1340	10	Siltstone, black, micaceous

Top	Bottom	Thickness	
1349	1350	10	Shale, black
1350	1386	36	Shale and siltstone, gray
1386	1427	41	Sandstone, light-gray, fine- to medium-grained, micaceous
1427	1435	8	Shale, black
1435	1475	40	Sandstone, nearly white, fine, calcareous
1475	1495	20	Shale, dark-gray, silty, micaceous
1495	1521	26	Sandstone, nearly white, medium-grained
1521	1576	55	Shale and siltstone, dark-gray to black
1576	1612	36	Siltstone, dark-gray, shaly, micaceous
1612	1635	23	Sandstone, white, medium-grained (hole full water, 1624')
1635	1639	4	Shale, light-gray, silty
1639	1646	7	Shale, black

Mauch Chunk Group, 100 feet

1646	1676	30	Shale, brownish-gray, soft; a little green shale, (1669-1676')
1676	1682	6	Shale, black, 80%; brownish-gray shale and siltstone, 20%
1682	1718	36	Siltstone, gray, sandy
1718	1728	10	Sandstone, light-gray, very fine; contains a few coarse grains
1728	1744	16	Limestone, brown ("Little Lime")
1744	1746	2	Shale, gray and green, soft, distinctly laminated (occurs in same sample with limestone above; drillers record give depth of this shale as 1748-1750')

Greenbrier Limestone, 136 feet

1746	1795	49	Limestone, light-brown to medium-brown; a few oolites, 1746-1750'
1795	1815	20	Limestone, dark-brown
1815	1825	10	Limestone, light-gray
1825	1838	11	Limestone, dark-brown, sandy, somewhat oolitic
1838	1866	30	Dolomite, nearly white, very sandy (gas at 1843-1849', 6/10 W. in 2"; SIM, 1849')
1866	1873	7	Limestone, brown and white, sandy, dolomitic
1873	1882	9	Sandstone, nearly white, fine, highly dolomitic (Interval 1879-1885' is reported as "white slate", but nothing corresponding to this was found in the last sample taken at 1882')
1885			Total depth