

Valentine Blatt No. 7913 Well

Proctor District, Wetzel County, West Virginia.

By Hope Natural Gas Company, Clarksburg, W. Va.

Located 1.41 mi. W. of 80°40' and 2.91 mi. S. of 39°45' ---NW--- Littleton
Quadrangle.

Elevation 1026' L.

Permit Net - 231

Drilling commenced Oct. 3, 1939; completed Dec. 3, 1939.

Gas and oil well.

Volume, 1,119,000 cu. ft., rock pressure 178 lbs. in 10 hrs.

Oil, 5 bbls. 1st 24 hours.

13" casing, 148'; 10", 963'; 8 1/2", 1603'; 6 5/8", 1893'; 5 3/16", 2603'.

Sample description from 10 to 1825' by C. H. Apsouri and from 1825 to 2653'

by J. H. C. Martens. The placing of the boundary between the Dunkard and Monongahela is based on the assumption that the coal at 488 to 490' depth is the Haynesburg seam. It then appears that the Haynesburg Sandstone is missing here or is reduced to a very small thickness.

Top Bottom Thickness

Dunkard Group, 488+ feet

Top	Bottom	Thickness	Description
0	10	10	No samples
10	15	5	Shale, grayish-green, with limy concretions
15	35	20	Shale, red, 50%; green sandy siltstone, 50%
35	70	35	Shale, red, with limy concretions
70	75	5	Siltstone, nearly white
75	86	11	Shale, red, with limy concretions, 60%; green siltstone, 40%
86	91	5	Shale and siltstone, green
91	97	6	Shale, red, with limy concretions, 50%; green shale, 50%
97	105	8	Shale, green
105	110	5	Shale, red, with limy concretions, 75%; green sandy siltstone, 25%
110	117	7	Shale, green, very silty
117	132	15	Siltstone, green
132	140	8	Shale, gray, 50%; red shale, 50%
140	146	6	Shale, gray
146	150	4	Shale, red, with limy concretions, 65%; grayish-green shale, 35%

Top	Bottom	Thickness	
150	163	13	Shale, green, calcareous
163	175	7	Shale, red, with limy concretions
175	184	9	Shale, red, 60%; green shale, 40%
184	190	6	Shale, green, with calcareous streaks
190	220	30	Siltstone, light-gray, sandy, micaceous
220	233	13	Shale, green, 60%; very light gray micaceous siltstone, 10%; light-brown limestone, 30%
233	245	12	Siltstone, light-gray, sandy
245	251	6	Shale, light-gray, soft, with limy concretions
251	262	11	Shale, red, with limy concretions
262	273	11	Shale, green, with limy concretions
273	280	7	Siltstone, green, sandy
280	286	6	Shale, green, with some siderite
286	307	21	Sandstone, white
307	313	6	Shale, green, with limy concretions
313	320	7	Shale, gray
320	326	6	Shale, gray, 70%; light-brown limestone, 30%
326	338	12	Shale, red, with limy concretions
338	345	7	Siltstone, green, 60%; green shale, 20%; red shale, 20%
345	351	6	Shale, green, 70%; green siltstone, 30%
351	356	5	Shale, green and gray
356	363	12	Shale, gray to dark-gray
363	431	63	Shale, light-gray to greenish-gray, with small limy concretions
431	443	12	Shale, grayish-green, with siderite spherulites
443	449	6	Siltstone, light-gray, very sandy
449	455	6	Shale, greenish-gray, 60%; light-gray siltstone, 40%
455	462	7	Sandstone, white
462	470	8	Limestone, brown, 70%; green and gray shale, 30%
470	476	6	Shale, gray, clayey, 70%; white sandstone, 30%
476	483	12	Limestone, brown, 50%; gray shale, 50%
<u>Monongahela Formation, 317 feet</u>			
483	490	2	Coal (Waynesburg Coal?)
490	507	17	Shale, gray
507	514	7	Siltstone, greenish-gray, 50%; gray shale, 50%
514	520	6	Shale, gray, clayey, calcareous

Top	Bottom	Thickness	
520	526	6	Shale, red, with limy concretions
526	554	28	Sandstone, white
554	560	6	Shale, gray
560	567	7	Siltstone, green, sandy
567	579	12	Shale, gray, clayey, 60%; brown limestone, 40%
579	585	6	Siltstone, green, sandy, 70%; brown limestone, 30%
585	591	6	Limestone, brown
591	616	25	Shale, light-green, soft, 70%; brown limestone, 30%
616	622	6	Shale, green, calcareous
622	629	7	Siltstone, green, sandy, 75%; light-brown limestone, 25%
629	635	6	Shale, green
635	641	6	Limestone, brown
641	657	16	Limestone, light-brown
657	663	6	Limestone, light-brown, 70%; green and gray shale, 30%
663	670	7	Limestone, light-brown, silty
670	683	13	Shale, light-gray
683	692	9	Limestone, light-brown, shaly
692	697	5	Coal (Sevickley Coal)
697	701	4	Shale, gray to dark-gray, clayey, 95%; coal, 5%
701	707	6	Shale, gray, 70%; limestone, light-brown, 30%
707	736	29	Limestone, light-brown, 60 to 90%; gray shale, 40 to 40%
736	742	6	Shale, green
742	747	5	Shale, gray, silty, calcareous
747	753	6	Limestone, light-brown
753	760	7	Limestone, grayish-green
760	766	6	Shale, very light gray
766	778	12	Siltstone, nearly white, sandy, 70%; light-gray shale, 30%
778	798	20	Siltstone, light-gray, with siderite spherulites, 75%; gray shale, 25%
798	805	7	Coal (Pittsburgh Coal)
<u>Conemaugh, Allegheny and Pottsville Formation, 1097 feet</u>			
805	812	7	Shale, light-gray, with siderite spherulites
812	832	20	Shale, very light-gray, with siderite spherulites
832	837	5	Shale, gray
837	844	7	Shale, grayish-green
844	861	17	Shale, grayish-green, with siderite spherulites

Top	Bottom	Thickness	
861	867	6	Siltstone, grayish-green, sand, 70%; red and gray shale, 30%
867	900	33	Sandstone, white
900	912	12	Shale, grayish-green
912	930	18	Shale, gray, soft, clayey
930	947	17	Shale, red, with many limy concretions
947	955	8	Shale, grayish-green
955	963	8	Shale, light-gray, clayey, 85%; black shale and coal, 15%
963	970	7	Shale, grayish-green
970	976	6	Shale, red, 50%; light-gray shale, 50%
976	995	19	Shale, red, with limy concretions
995	1005	10	Shale, greenish-gray, silty
1005	1011	6	Shale, red, 60%; green shale, 40%
1011	1023	17	Shale, red, with limy concretions
1023	1043	15	Shale, reddish-gray, clayey
1043	1053	15	Shale, grayish-green
1053	1073	15	Shale, gray, soft
1073	1088	15	Shale, red, with limy concretions, 70%; white shale, 30%
1088	1093	5	Shale, light-gray
1093	1098	5	Shale, red
1098	1105	7	Shale, green, calcareous
1105	1120	15	Shale, light-gray, soft, thinly laminated
1120	1128	8	Shale, gray
1128	1135	7	Shale, very dark-gray
1135	1142	7	Shale, light-gray to gray
1142	1152	10	Shale, dark-gray
1152	1158	6	Shale, dark-gray, 75%; sandstone, white, 25%
1158	1187	29	Siltstone, dark-gray, shaly
1187	1203	16	Siltstone, white, sandy, with siderite spherulites
1203	1210	7	Shale, light-gray
1210	1228	18	Shale, very dark gray
1228	1234	6	Shale, light-gray
1234	1239	5	Shale, light-gray and red
1239	1250	11	Shale, gray, 60%; light-gray siltstone, 40%
1250	1258	8	Sandstone, white (oil, 1255-1260')

Top	Bottom	Thickness	
1258	1270	12	Shale, light-gray, calcareous
1270	1275	5	Shale, light-gray and red
1275	1307	32	Sandstone, white
1307	1314	7	Shale, white, gray, and red
1314	1322	8	Siltstone, light-gray, shaly, 60%; dark-gray shale, 40%
1322	1330	8	Shale and siltstone, light-gray, with limy concretions
1330	1339	9	Shale, very light-gray
1339	1345	6	Shale, red, with limy concretions
1345	1350	5	Shale, dark-gray
1350	1357	7	Siltstone, white, sandy
1357	1394	37	Sandstone, white
1394	1404	10	Shale, gray, clayey
1404	1420	16	Shale, very light gray
1420	1452	32	Sandstone, white, medium-grained
1452	1458	6	Shale, gray, with siderite spherulites
1458	1465	7	Sandstone, white, fine
1465	1484	19	Shale, various colors (cavings?)
1484	1493	9	Shale, gray
1493	1500	7	Shale, dark-gray, 50%; white sandstone, 50%
1500	1507	7	Shale, white and gray, 60%; white sandstone, 40%
1507	1520	13	Sandstone, white, fine
1520	1535	15	Sandstone, white, very coarse
1535	1562	27	Sandstone, white, fine
1562	1593	31	Shale, gray to dark-gray
1593	1607	14	Shale, white to light-gray
1607	1671	64	Shale, gray to dark-gray
1671	1692	21	Siltstone, gray, sandy
1692	1717	25	Sandstone, white
1717	1730	13	Siltstone, light-gray, sandy
1730	1740	10	Shale, dark-gray
1740	1781	41	Siltstone, gray to white, sandy, with siderite spherulites
1781	1818	37	Sandstone, white, fine
1818	1825	7	Sandstone, white, coarse, nearly all quartz; crystal faces on many grains

Top	Bottom	Thickness	
1825	1842	17	Shale, dark-gray, silty; a little black shale and traces of coal, 1832-1842'
1842	1855	13	Siltstone, light-gray
<u>Mauch Chunk Group, 37 feet</u>			
1855	1866	11	Shale, gray, soft, calcareous, and fossiliferous
1866	1872	6	Limestone, grayish-brown ("Little Lime")
1872	1876	4	Shale, gray, soft, thinly laminated ("Pencil Cave")
1880	1892	12	Sandstone, white, very fine
<u>Greenbrier Limestone, 93 feet</u>			
1892	1943	51	Limestone, light-brown
1943	1978	35	Sandstone, nearly white, fine to medium-grained, highly calcareous; larger grains are rounded and frosted
1978	1995	7	Sandstone, white, coarse, moderately calcareous
<u>Lower Mississippian and Upper Devonian</u>			
1985	2014	29	Sandstone, white, with green specks, fine, slightly calcareous
2014	2182	168	Sandstone, very light gray to white, fine- to medium-grained
2182	2199	17	Shale, gray, silty
2199	2215	16	Sandstone, nearly white, fine
2215	2238	23	Shale, gray
2238	2285	47	Siltstone and shale, gray
2285	2306	21	Shale, gray, with small amount of siltstone
2306	2350	44	Siltstone and shale, gray
2350	2400	50	Sandstone, nearly white, very fine; small amounts of gray shale and siltstone
2400	2475	75	Siltstone, gray, shaly; some parts nearly coarse enough to be classed as sandstone
2475	2529	54	Shale, dark-gray, silty
2529	2550	21	Shale and siltstone, dark-gray
2550	2570	20	Sandstone, very light yellow, very fine
2570	2604	34	Shale and siltstone, gray
2604	2608	4	Siltstone, very light gray, sandy
2608	2630	22	Siltstone, gray, fine, shaly
2630	2639	9	Shale, gray, 60%; red shale, 40%

Top	Bottom	Thickness	
2659	2657	18	Shale, gray, silty
2657	2726	68	Shale, red, silty, micaceous
2725	2764	39	Shale, gray, with some sandy streaks
2764	2775	11	Sandstone, nearly white, very fine
2775	2800	25	Sandstone, white to greenish, very fine, 60%; gray shale, 40%
2800	2820	20	Shale, gray; also white to green siltstone and very fine sandstone
2820	2825	5	Sandstone, white, coarse; sample consists mostly of angular fragments formed by breaking of large grains or pebbles (gas 2824-2827')
2825	2833	8	Shale, gray (oil 2831'; Gordon Sand is reported for interval 2820-2837', so this shale may beavings
2833	2838	5	Sandstone, nearly white, fine, 70%; gray shale, 30%
2838	2853	15	Shale and siltstone, gray
	2853		Total depth