

J. W. Hatfield No. 8527 Well

Grant District, Wetsel County, W. Va.

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

Located 0.64 mi. W. of 80°30' and 0.4 mi. S. of 39°35' -SE- Littleton Quadrangle

Elevation, 1272' L.

Permit, Wet-243.

Commenced Oct. 1, 1940; completed, Oct. 21, 1940.

Fresh water at 125'; salt water, none.

8 1/4" casing, 17'; 6-5/8", 249'.

Dry hole.

Section based on samples from 10 to 10'5" examined by J. H. C. Martens.

Top	Bottom	Thickness	
<u>Dunkard Group, 660+ feet</u>			
0	10	10	Clay, red
10	25	15	Sandstone, brown, fine; considerably weathered
25	40	15	Clay and soft shale, red and yellow
40	55	15	Siltstone, brown, shaly; much weathered
55	75	20	Clay, red, calcareous
75	115	40	Siltstone and fine sandstone, brown, of weathered appearance; also considerable amounts of red to yellow clay
115	175	60	Sandstone, nearly white, medium-grained; all of the 12 samples from the interval look the same
175	180	5	Siltstone, gray, micaceous
180	240	60	Sandstone, white to light-green, medium- to fine-grained, 60%; green shale and siltstone, 30%; red clay, 10%; all samples in this interval are the same; they are probably not from the depths indicated
240	255	15	Siltstone, grayish-green
255	320	65	Shale and siltstone, gray and green; some red shale cavings throughout
320	345	25	Clay, red, calcareous
345	360	15	Sandstone, white, fine, micaceous
360	380	20	Shale, gray and green
380	400	20	Sandstone, gray, very fine, micaceous and calcareous
400	430	30	Shale, green, red and gray; calcareous

Top Bottom Thickness

430	445	15	Shale, green to gray, calcareous
445	455	10	Sandstone, light-green, fine, shaly, calcareous
455	460	5	Siltstone, light-green, calcareous and micaceous
460	465	5	Shale, gray to green, soft, 60%; red shale, 30%; limestone, 10%
465	480	15	Sandstone, light-green to nearly white, fine to very fine, 70%; green shale and siltstone, 30%
480	485	5	Shale, green, silty; contains limestone nodules
485	530	45	Samples probably mixed
530	550	20	Shale and siltstone, black, with traces of coal
550	555	5	Clay, gray, highly calcareous; contains small limestone nodules
555	580	25	Sandstone, white to light-green, fine, highly calcareous
580	585	5	Shale, gray, green, black, etc.; also some sandstone
585	605	20	Sandstone, white to light-green, fine, slightly calcareous
605	615	10	Shale, gray, brown, etc.; also a little coal
615	620	5	Siltstone, light-gray, micaceous
620	635	15	Sandstone, very light green, fine micaceous, calcareous
635	655	20	Sandstone, light-gray to greenish, very fine, calcareous
655	660	5	Shale and siltstone, gray, 95%; coal, 5%

Monongahela Formation, 358 feet

660	665	5	Coal and very dark gray shale (Waynesburg Coal)
665	690	25	Shale, gray, with some siltstone; many siderite spherulites
690	695	5	Shale and siltstone, gray
695	705	10	Shale, dark grayish green, calcareous
705	755	50	Sandstone, white, fine- to medium-grained, slightly to moderately calcareous
755	770	15	Sandstone, as above, 60%; brown and gray shale, 40%
770	780	10	Limestone, light-brown; some green clay
780	785	5	Siltstone, green, micaceous
785	810	25	Limestone, brown to light-brown; also some white calcareous sandstone and some green clay
810	815	5	Shale, green, silty
815	835	20	Limestone, brown
835	845	10	Clay, green; also some brown limestone and green calcareous siltstone

Top	Bottom	Thickness	
845	920	75	Limestone, brown; most samples contain some green clay or shale
920	925	5	No sample
925	935	10	Sandstone, white, fine
935	945	10	Shale, dark-gray to brown; also considerable amount of siltstone and fine sandstone
945	1000	55	Limestone, brown to light-brown, very fine textured; samples mostly contain some green clay or shale
1000	1004	4	Siltstone and shale, gray to black
1004	1015	11	Coal and black shale (Pittsburgh Coal)
1015			Total depth