

E. N. Clover No. 8528 Well

Grant District, Wetzel County, W. Va.

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

Located 0.24 mi. N. of 30°30' and 6.0 mi. S. of 39°40' - 20 - Littleton Quadrangle.

Elevation, 1243' L.

Permit Lot - 242

Drilling commenced Sept. 4, 1940; completed Sept. 20, 1940.

Gas well.

Volume 32,750 cu. ft.; rock pressure 102 lbs. in 24 hrs.

3 1/2" casing, 17' (pulled); 6 5/8", 201'; 5 3/10", 333'.

Section based on samples from 250 to 336', examined by J. H. C. Martens.

Many of the samples seem to contain large amounts of cavings, as a result of which some parts of the section may not be very accurate. If the top of the Monongahela Formation is correctly located, then this formation has a smaller thickness here than is usual for Wetzel County.

Top Bottom Thickness

Dunkard Group, 637+feet

Top	Bottom	Thickness	Description
0	250	250	No samples
250	272	22	Siltstone, green, calcareous and micaceous
272	285	13	Siltstone, gray, micaceous
285	298	13	Shale and siltstone, gray
298	308	10	Shale, gray, very soft; also some siderite
308	312	4	Shale and siltstone, gray to black
312	318	6	Siltstone, black, micaceous
318	326	8	Sandstone, white, fine, 50%; black shale and coal, 30%; white shale and siltstone, 20%; many siderite spherulites in lighter colored fragments
326	330	4	Shale, gray and green; also a little coal
330	354	24	Shale, green, silty; samples seem to be badly contaminated with cavings
354	374	20	Siltstone and shale, gray, black, and green (poor samples)
374	394	20	Shale, light-green, silty, micaceous
394	458	64	Shale and siltstone, green to gray, with nodules or streaks of limestone; probably much cavings in samples

Top	Bottom	Thickness	
458	464	6	Shale, dark-gray, soft
464	478	14	Siltstone, light-gray, sandy, with many small specks of siderite
478	500	22	Sandstone, white, fine, slightly calcareous; many small specks of siderite in upper part
500	508	8	Shale, light-green and gray
508	556	48	Shale and siltstone, light-green and gray; probably much cavings in samples
556	566	10	Siltstone, light-gray
566	572	6	Sandstone, nearly white, fine
572	580	8	Shale, gray, very silty, micaceous
580	608	28	Sandstone, very light gray to white, fine, calcareous
608	637	29	Sandstone, white, fine; similar to sandstone above except that it contains very little calcareous material (Waynesburg Sandstone)
<u>Monongahela Formation, 271 feet</u>			
637	650	13	Shale and siltstone, gray, 90%; coal, 10% (Waynesburg Coal)
650	676	26	Limestone, light-brown
676	720	44	Limestone, light-brown, 60 to 40%; green shale and siltstone, 40 to 60%
720	750	30	Limestone, very light brown, 70%; very soft gray, green, and reddish shale, 30%
750	808	58	Limestone, light-brown, also small amount of gray, green, and brown shale
808	810	2	Shale, brownish-gray, soft
810	812	2	Coal (Mapletown or Sewickley)
812	817	5	Limestone, brown
817	821	4	Sandstone, nearly white, very fine
821	837	16	Siltstone, light-gray, micaceous (samples also contain various kinds of shale and some brown limestone)
837	861	24	Limestone, light-brown, 60%; gray, green, and brown silty shale, 40%
861	866	5	Limestone, very light brown
866	908	42	No samples
905	908	3	Pittsburgh Coal (from driller's record; gas, 905-908')
	908		Total depth