

APR 11 1952 (C)

Herbert Shaffer No. 1(9384) Well.

Clover District, Tucker County, W. Va.

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

Located 4.22 Miles S of 39° 15' and 2.3 miles W. of 79° 45'.

Belington Quadrangle - NE..

Elevation 2401' ^{40"}.Permit, Tucker - 5.

Drilling commenced 1st part of March, 1951; completed August, 1951.

Dry hole.

Ran Casing at 2318' and 5559' ⁶

Section based on samples from 4706 to 5984'; examined by Russell R Flowers

Top Bottom Thickness

Harrell Shale, 321, plus, feet.

✓ 4706	4924	218	Shale, dark-gray to grayish-black, silty in part; small amount is calcareous; somewhat carbonaceous
4924	5027	103	Shale, grayish-black, some grayish-black to black, carbonaceous, mostly grayish-black to black (highly carbonaceous and somewhat pyritic) in the lower part, somewhat calcareous, some of the shale is slickensided

Tully Limestone, 26 Feet.

5027	5053	26	Limestone, olive-gray to medium dark gray, argillaceous with some highly calcareous shale
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Hamilton and Marcellus Shales, 500 Feet.

5053	5078	25	Shale, dark-gray, very highly calcareous at the top to calcareous at the bottom
✓ 5078	5308	230	Shale, dark-gray to grayish-black, pyritic in part, small amount is calcareous
✓ 5308	5321	13	Shale, dark-gray; some shaly dolomite
5321	5330	9	Shale, dark-gray to grayish-black
5330	5336	6	Dolomite, dark-gray, shaly to a dolomitic shale, highly calcareous
5336	5350	14	Shale, dark-gray to grayish-black, small amount is calcareous and dolomitic
5350	5380	30	Shale, grayish-black, some grayish-black to black (carbonaceous)
5380	5509	129	Shale, grayish-black to black, carbonaceous; small amount of vein calcite and pyrite
✓ 5509	5520	11	Limestone (shaly) to shale (highly calcareous), medium- to dark-gray and brownish-black, pyritic; a large amount of grayish-black to black shale
5520	5531	11	Shale, grayish-black to black, carbonaceous, calcareous
5531	5540	9	Shale, grayish-black to black and black, highly carbonaceous, pyritic; some vein calcite

5540 5553 13 Shale, grayish-black to black, very highly calcareous, carbonaceous

Huntersville Chert, 166 Feet.

5553 5559 6 Limestone, dark-gray to grayish-black, very shaly to a highly calcareous shale, pyritic in part, trace of glauconite in the lower part

5559 5561 2 Limestone, medium- to dark-gray, shaly, cherty to calcareous shert

5561 5585 24 No sample

5585 5587 2 Chert, light-gray, mostly transparent, spicular, slightly dolomitic

5587 5594 7 Chert, mottled light-gray to medium light gray (mostly transparent) and dark-gray to grayish-black (argillaceous), spicular, somewhat dolomitic

5594 5603 9 Chert, mottled light- to medium-gray (transparent to translucent) and dark-gray to grayish-black (argillaceous), somewhat dolomitic

5603 5609 6 Chert (silty at top) to siltstone (cherty at bottom), light- to medium-gray, some grayish-black (argillaceous) somewhat dolomitic

5609 5620 11 Siltstone to chert, medium-gray; some dark-gray (argillaceous), pyritic, somewhat dolomitic, highly pyritic and glauconitic in the lower part

5620 5637 17 Chert, medium- to dark-gray, some grayish-black, silty, argillaceous, pyritic, spicular in part, somewhat dolomitic

5637 5674 37 Chert (highly argillaceous) to silicified shale, dark-gray to grayish-black, pyritic, slightly dolomitic, mostly grayish-black silicified shale at the bottom

5674 5702 28 Shale, grayish-black, highly silicified at the top to silicified at the bottom, pyritic; trace of dolomite

5702 5711 9 Shale, grayish-black, some grayish-black to black, pyritic, slightly glauconitic and somewhat cherty at the bottom

5711 5719 8 Chert (argillaceous) to shale (cherty), mostly grayish-black, moderately dolomitic; calcareous in the lower part, pyritic

Oriskany Sandstone, 265, plus, Feet, and Helderberg Formation.

5719 5723 4 Sandstone, light-gray, fine- to medium-grained, subrounded to rounded, some coarse grains at the top, calcareous

5723 5730 7 Sandstone (very highly calcareous) to limestone (very sandy) medium to medium dark gray, mostly fine grained at the top and very fine to fine in the lower part, (subrounded), some medium grains, some dark (argillaceous) material

5730 5734 4 Sandstone, light-gray, very fine grained, some fine grains at the top, calcareous

5734 5741 7 Sandstone (very highly calcareous) to limestone (very sandy), light- to medium-gray, very fine to fine-grained

5741	5743	2	Sandstone, medium light gray, mostly very fine, ^{grained,} gray, very highly calcareous
5743	5749	6	Sandstone, light-gray, very fine grained, some fine grains at the top; calcareous
5749	5751	2	Sandstone, light- to medium-gray, some grayish-black (very shaly) in the upper part, very fine grained, highly calcareous
5751	5753	2	Sandstone, light-gray, very fine grained, some fine grains, highly calcareous
5753	5755	2	Sandstone, medium-gray with grayish-black (shaly) streaks, very fine to fine-grained, a few medium grains, very highly calcareous
5755	5756	1	Sandstone, medium- to dark-gray, mostly fine grained, very highly calcareous
5756	5758	2	Sandstone, medium-gray, some grayish-black (shaly) spots, very fine grained, silty, highly calcareous
5758	5759	1	Sandstone, light- to medium-gray with grayish-black (shaly) spots, very fine to fine-grained, some medium grains, very highly calcareous
5759	5763	4	Sandstone, medium dark gray with grayish-black (shaly) spots; mostly very fine grained, calcareous
5763	5772	9	Sandstone, light- to medium-gray with dark-gray to grayish-black (very shaly) streaks, very fine to medium-grained, subrounded, highly calcareous
5772	5782	10	Limestone (very sandy) to sandstone (very highly calcareous), medium-gray with white (limestone) and grayish-black (very shaly) spots, very fine to fine-grained, some medium grains
5782	5784	2	Sandstone (very fine) to siltstone, medium-gray with some grayish-black (shaly), highly calcareous
5784	5794	10	Sandstone (very highly calcareous) to limestone (very sandy), medium-gray, very fine to medium-grained
5794	5808	14	Sandstone, light-gray, very fine to fine-grained, some medium grains at top and bottom, highly calcareous, silty
5808	5810	2	Sandstone to limestone, medium- to dark-gray, very fine sand to silt, shaly in part
5810	5820	10	Sandstone, very light to light-gray, very fine to fine-grained, some medium grains at the top, 5813 to 5814, and at the bottom, subrounded, very fine grained from 5811 to 5813, quartzose, highly calcareous in the lower part
5820	5823	3	Sandstone, light-gray with some medium- to dark-gray (shaly), very fine grained, some fine grains, highly calcareous
5823	5827	4	Sandstone (very fine) to siltstone, medium-gray with light-gray spots in the lower part, highly calcareous to silty limestone
5827	5834	7	Limestone (very silty) to siltstone (highly calcareous), medium-gray to grayish-black (shaly), cherty, very cherty at the bottom
5834	5835	1	Siltstone, medium- to dark-gray, highly calcareous, very cherty

5835	5839	4	Siltstone to sandstone (very fine), medium-gray, very highly calcareous, very cherty at the bottom
5839	5848	9	Siltstone, dark-gray to grayish-black with medium gray spots, very highly calcareous, shaly, somewhat cherty
5848	5853	5	Siltstone, dark-gray at the top to medium-gray at the bottom, very highly calcareous with limestone spots, somewhat sandy (very fine, some fine), somewhat cherty
5853	5859	6	Siltstone (highly calcareous) to limestone (very silty), medium-gray, somewhat sandy (very fine, some fine), slightly cherty
5859	5866	7	Limestone, medium- to dark-gray, very sandy (very fine), slightly cherty
5866	5886	20	Limestone (very sandy and silty) to sandstone (very fine) to siltstone, very highly calcareous), medium- to dark-gray, very cherty at 5886 to 5848 to 5850, some fossil fragments
5886	5891	5	Limestone (very silty) to siltstone (very highly calcareous), medium- to dark-gray, very cherty, somewhat argillaceous, sandy (very fine to fine) at the bottom
5891	5903	12	Limestone (very sandy) to sandstone (very highly calcareous, mostly fine-grained), mostly medium dark gray, some fine to medium (rounded) grains
5903	5908	5	Limestone, light- to medium-gray, very sandy (fine to coarse-grained, rounded to well rounded)
5908	5935	27	Limestone, medium- to dark-gray, very sandy (very fine to fine-grained, some fine to medium grains), silty in part
5935	5945	10	Limestone (very silty) to siltstone (very highly calcareous), medium- to dark-gray, some grayish-black (argillaceous), sandy at the top
5945	5972	27	Limestone (very silty, shaly) to siltstone and shale (highly calcareous), dark-gray to grayish-black with light- to medium-gray spots; some white calcite at the top
5972	5976	4	Shale, grayish-black with medium-gray (limestone spots), very highly calcareous, silty
5976	5983	6	Depth correction
5983	5984	1	Shale, grayish-black, very highly calcareous
	5984		TOTAL DEPTH