Alfred Woofter No. 8555

(EW-49

Freemans Creek District, Lewis County, W. Va.

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

Located 1.65 mi. W. of 80°30' and 0.29 mi. S. of 39°05' -SE- Vadis Quadrangle. Elevation, 1222' L.

Permit, Low-49.

Drilled with rotary tools.

Drilling contractor Falcon-Seaboard Drilling Co.

Brilling commenced June 5, 1941; completed October 20, 1941.

Shot in Oriskany November, 1941.

Volume 474,000 cu. ft. after shot.

Rock pressure 2185 1bs. in 24 hrs.

No coal recorded.

10" casing 1393'; 7", 6710'; 23" tubing 6993'.

Well starts about 100 feet below Pittsburgh Coal, according to geologic map. Section based on examination of samples from 490 to 1410' by

of Hope Matural Gas Company and from 1410 to 7325' by J. H. C. Martens.

Top Bottom Thickness

0	490	490	Not sampled
490	5 20	30	Shale, gray
520	5 2 5	8	Siltstone, gray
528	650	122	Sandstone, white
65 0	660	10	Shale, black
66 0	721	61	Sandstone, gray to white, fine
721	780	59	Shale, gray
780	810	30	Sandstone, gray to white
810	8 40	30	Shale, gray
840	880	40	Sandstons, gray
880	891	11	Shale, sandy
8 91	929	38	Sandstone, gray, fine
929	1021	92	Shale, black to gray
1021	1030	9	Sandstone, gray to white

Top	Bottom	Thickness	
1050	1083	53	Shale, gray, sandy
1083	1114	31	Sandstone, white, fine
1114	1190	76	Siltstone, brewn to green
1190	1255	65	Sandstone, gray to green, fine
1255	1334	79	Shale, red to green, limey
1354	1345	11	Limestone, brown-gray (Little Lime)
1345	1358	18	Shale, gray, green, red, limey
		Gre	endrier Limestone, 202 feet
1358	1410	5 2	Limestons, brown, gray, sandy
1410	1440	50	Limestone, light-brown; gray when dry
1440	1450	10	Limestone, brown and gray, sandy
1450	1490	40	Limestone, light-brown; a little white sandstone, 1470-1480'
1490	1500	10	Limestone, nearly white, sendy and colitic
1500	1520	20	Sundstone, white, fine, highly calcareous; also some
			brown limestone
1520	1560	40	Limestone, nearly white, saniy, somewhat dolomitic
		Lower Miss	issippian and Upper Devonian, 4943 feet
1560	1570	10	Samistone, very light grayish-green, very fine, 70%
			gray to grayish-green shale, 30%
1560	1630	70	Sandstone, very light-grayigh-green; almost a siltstone
	6		as is the sandstons in the interval above
1630	1640	10	Siltatons and shale, gray
1640	1690	50	Siltstone, gray, shaly, micaceous
1690	1740	50	Shale, gray
1740	1770	80	Shale and siltstone, gray
1770	1780	10	Siltstone, gray and light-brown
1780	1830	50	Siltstone and shale, gray
1830	1840	10	Shale, gray
1840	1870	80	Siltstone, and silty shale, gray
1670 -	1890	10	Sandstone, white, very fine, somewhat dolomitic
1880'	1900	20	Sandstone, white, fine, 50%; gray shale, 50%
1900	1970	70	Shale, gray
1970	1980	10	Sandstone, white with some yellow and green, very coarse,
			pebbly

Top	Bottom	Thicknes	
1980	2030	50	Shale, gray, 70%; white to light-green very fine sandstone,
			30%
2030	2040	10	Shale, gray to grayish-green, silty, 50%; white to light-
			green very fine sandstone, 50%
2040	2060	20	Sandstone, white, coarse, poorly sorted; also some gray
			and green shale
2060	2070	10	Shale, gray
2070	2090	20	Shale, gray, 60%; fins to coarse, poorly sorted, white
			sendstone, 40%
2090	21 10	20	Sandstone, white; mostly fine but contains some coarse
			to very source grains
2110	2120	10	Shale, gray
2120	2130	10	Shale, gray, 50%; white to light-green, very fine sendstone,
			50%
2130	21.50	20	Shale, gray; also some siltstone and very fine sandstone
21.60	2210	80	Shale and siltstone, gray to grayish-green; also white
			to green fine sandstone up to about 20%
2210	2220	10	Shale, gray
2220	2264	44	Shale and siltstone, gray to grayish-green
2264	2288	24	Sandstone, brown with some white, fine to coarse; some
			fragments highly pyritic
2288	2320	52	Shale, gray, silty
2320	2830	10	Sandstone, light-green, fine
2330	2340	10	Shale, gray, silty
2340	2871	31	Sandstone, light grayish green, fine to very fine; also
			some gray shale
2371	2390	19	Shale and siltstone, gray to grayish-green
2390	2490	100	Sandstone, light-green, very fine, grading into siltstone,
			50 to 80%; gray shale, 50 to 20%
2490	2500	10	Sandstone, red and green, very fine, silty
2500	2560	80	Shale and siltstone, gray to grayish-green; a few
			fossil mells and present; the siltstone grades into
			very fine andstone

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Tep	Bettom	Thickness	
2560	2590	30	Siltstone, red, micadeous
2590	2660	70	Siltstone, light-green with some red, 70%; gray shale, 30%
2660	2670	10	Sandstone, white, very fine, 50%; gray shale, 40%;
			red shale, 10%
2670	2890	20	Shale, gray
2690	2730	20	Sendstone, white to light-green, very fine, calcareous
2710	2720	10	Sendstone, grayish-red and light-brown, very fine
27 2 0	2730	10	Sandstone, light-gray to green, very fine, 60%; gray
			shale, 40%
2730	2740	10	Shale and siltstone, gray
2740	2760	20	Sandstone, light grayish green, slightly calcareous
2760	2840	80	Siltstone, light-grayish grown, sandy, 70%; gray shale,
			30%; the siltstone in this interval is only slightly
			finer than the sandstone above
2840	2860	20	Siltstone, brown and light-green; contains a few fossil shell
2860	2870	10	Siltstone and shale, gray to grayish-green
2870	2880	10	Sandstone, light-green, very fine, calcareous
2880	2900	20	Shale and siltstone, gray to grayish-green
2900	2940	40	Siltatone, light-gray, 70%; gray shale, 30%
2940	2960	20	Siltstone, light-gray, 50%; gray shale, 50%
2960	2980	20	Siltatone, brown; also some gray shale
2980	3220	240	Siltstone and shale, gray; most of the samples contain
			more siltstone than shale, but the two kinds of rocks
			are not clearly distinguished since individual fragments
			show every gradation from one to the other; the siltetone
			varies in color from light-gray and grayish-green to white
3220	3250	30	Siltatone, brown; also some gray shale and siltatone
3250	4100	850	Siltatone and shale, gray; siltatone varies in color from
			brown, light-gray and grayish-green to nearly white;
			no attempt was made to describe in detail the variations
			in color and texture of individual samples
4100	4120	20	Siltstone, brown and gray, 60%; gray shale, 40%
4120	4170	80	Shale and siltstone, gray

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Top	Bottom	Thickness	
4170	4200	30	Siltatone, brown; also some gray shale and siltstone
4200	4310	110-	Shale and siltstone, gray to dark-gray
4310	4330	20	Siltstons, brown, 60%; gray shale and silt stone, 40%
4330	4420	90	Shale and siltstone, gray
4420	4430	10	Siltstone, gray to white, partly sandy, walcareous, 80%;
			gray shale, 20%
4430	5360	930	Shale and siltstone, gray; siltstone is lighter colored
			than shale much of it is slightly to moderately calcareous;
			most of the samples are predominantly shale and the
			texture of the siltstone is fine; most samples from
			5140 to 5360' contain some very dark shale
5360	5870	10	Shale, very dark gray, silty
5 370	5440	70	Shale, dark-gray, with small amount of lighter gray siltstone
5440	5460	20	Siltstone, brown; also some dark-gray shale
5460	6040	5 80 **	Shale, dark-gray to very dark gray, interstratified with
			a little lighter gray fine siltstone, which decreases
			in amount toward bottom of interval
6040	6290	250	Shale, dark-gray to black
6290	6410	120	Shale, black and very dark-gray
6410	6478	68	Shale, black, calcareous
6478	6503	25	Limestone, gray, very fine textured (Tully Limestone)
		Hemilton	Shales (including Marcellus), 177 feet
6003	8620	117	Shale, dark-gray, with small amounts of gray limestone
~~~~			("lime shells" reported)
6620	6670	50	Shale, dark-gray to black, with small amount of gray to
6670	4490	••	brown limestone 6680
0070	0080	10	Shale, black, calcareous 1222
8890	6710	Eunt	ersville Chert, 260 fest
0000	0110	50 .	Limestone, gray, charty fossiliferous, slightly
			colomitic; impure chert is left as porous masses after
8710	6720	10	sold treatment; contains a few speaks of glauconite
6720	8780	40	"here, gray and brown, slightly dolemitic
01.0V			onert and onerty limestone, gray and brown
87 <b>6</b> 0	6795	35 (	Chert and cherty limestone, gray, white and brown; small
			propertion of silty and clausonitic material

Top	Bottom	Thickness	
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6795 6855 Chert, dark-brown, silty, glauconitic; contains only 60 small amount of carbonate, most of which is dolomite; very little pure chert in this interval

6855 6880 25 Chert, gray to brown, silty; contains some dolomite and glauconite

- 6880 6885 5 Chert, gray to light-brown, slightly calcareous; purer than the chert above; contains many cracks with thin quarts voins
- 6885 6910 Chert, brown to dark-brown and gray, mostly silty and 25 glauconitic, slightly to moderately calcareous
- 6910 6955 25 Chert and cherty limestone, gray to brown; contains some silt and traces of glauconite

6935 6940 Limestons, light-gray, cherty 5 6940 1228 Oriskany Sandstone, 100 feet

- 6940 7020 80 Sandstone, light-gray to white, fins- to medium-grained, calcareous
- 7020 7035 15 Sandstone, light-brown, fine to very fine, highly cal-GATOOUS
- 7035 7040 Sandstone, light-brown, medium-grained, highly calcareous 5 Helderberg Group, 285+ feet
- 7040 7080 40 Limestone, brown, silty and eherty; contains a few fossil shells; very large insoluble residues; some parts could be called siltstone rather than limestone 7080 7100 20 Limestons, light-brown to nearly white, highly

fossiliferous; much less silt and chert than in interval above

7100	7120	25	Limestone, gray to white, very sandy, fossiliferous
7125	7190	65	Limestone, brown, cherty; only small amounts of pure
			ohert; large insoluble residues consisting of porous
			chert and shaly and silty material

7190	7200	10	Linestons, brown, silty and sherty
7200	7215	15	Limestone, gray to light-brown, silty, fossiliferous
7215	7275	60	Limestone, brown, cherty; mostly contains some silt or

very fine sand, and a little glauponite

Top	Bottom	Thickness	
7275	7325	50	Limestons, light-gray to light-brown, sandy, fossiliferous,
			a little chert in some samples
	7325		Total depth

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