## P. S. Pyles No. 9315 Well

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Portland District, Preston County, W. Va. By Hope Natural Gas Company, Clarksburg, W. Va. Located 3,63 miles South of 39° 30' and 3.35 miles W. of 79° 30'. Kingwood quadrangle, N.E. Elevation 2197 1 L. Permit - Preston No. 9. Drilling commenced Nov. 18, 1948; completed May 2, 1949. Shot May 3, 1949. Acidized May 18, 1949. Gas well; Volume 73,000 cu. ft. Fresh water 38'; 114'; show water 595'. Salt water 6062 - 6067'. 10" casing 502'; 8-1/4", 1512'; 6-5/8" 5683'; all left in. No coal recorded. Section based on samples from 4804' - 6088'; examined by Russell R. Flowers. Top Bottom Thickness 4804 4825 Shale, grayish-black to black (highly carbonaceous) 21 ly Limestone, 8 Feet. Tull 4825 4833 8 Limestone, olive-gray, some dark brownish gray, very fine textured, very shaly Hamilton & Marcellus Shales, 810 Feet. 4833 5244 411 Shale, grayish-black to black (carbonaceous), some dark-gray in the upper part 5244 5263 19 Shale, dark-gray to grayish-black, somewhat calcareous; small amount of olive-gray, very shaly limestone 5263 5400 137 Shale, grayish-black to black (highly carbonaceous) 5400 5422 22 Shale, black, some grayish-black to black, very highly carbonaceous 5422 5460 38 Shale, dark-gray to brownish-black, calcareous to very shaly limestone; a large amount of grayish-black to black shale at the bottom 5460 5488 Limestone (very shaly) to shale (calcareous), dark-28 gray to brownish-black; some grayish-black to black shale 5488 5510 22 Shale, grayish-black to black, highly carbonaceous; a large amount of dark-gray to olive-black, very shaly limestone and calcareous shale in the lower part 5510 5544 Limestone (shaly) tox ahale (calcareous), dark-gray 34 to olive-black 5544 5570 26 Shale, grayish-black to black (highly carbonaceous); a large amount of dark-gray to olive-black, calcareous shale and shaly limestone at the top and bottom; small amounts of pyrite and white to, light-gray vein calcite

5570 5596 26

Limestone (very shaly) to shale (calcareous), darkgray to olive-black; small amount of white to lightgray, vein calcite; some grayish-black to black shale

5596	5643	47	Shale, black, very highly carbonaceous, some grayish-black to black in the upper part, small amounts are highly calcareous; small amounts of white to light-gray vein calcite
			Huntersville Chert, 213 Feet.
5643	5 <b>%07</b>	64	Shale, (highly calcareous) to limestone (very shaly), grayish-black to black, slightly cherty; some olive-gray to brownish-black, very shaly siltstone (bentonite)
5707	5712	5	Limestone, grayish-black with medium- to dark-gray spots, very shaly
5712	5718	6	Limestone, grayish-black, very shaly, cherty to a medium- to dark-gray, calcareous chert
5718	5724	6	Chert, light-to medium/light gray with some dark- gray to grayish-black (very shaly), calcareous, dolomitic, translucent to opaque
5724	5726	2	Chert, light- to medium-gray, mottled with dark- gray to grayish-black (shaiy), calcareous, somewhat dolomitic
5726	5731	5	Chert, light-to medium light gray, translucent to "dead", slightly calcareous and dolomitic; some dark-gray (shaly) chert in the lower part; much of the chert contains some siliceous, sponge spicules (?)
57 31	5737	6	Chert, light-to medium light gray, some medium- gray, translucent to transparent, some "dead", many of the pieces contain siliceous sponge spicules (?), contains some dark-gray (shaly) material in spots and streaks and along fractures, calcareous at the bottom
5737	5748	11	Chert, light- to medium-gray, some dark-gray to grayish-black (shaly), translucent to "dead", highly fractured with shaly material and some quartz as fillings, much of the sample contains siliceous sponge spicules (?), slightly dolomitic in the upper part
5748	5751	3	Chert, light-to medium light gray with some dark- gray (very shaly), transparent to translucent, much of the chert contains large numbers of siliceous sponge spicules (?), slightly dolomitic
5751	5760	9	Chert, medium light to medium-gray, some dark- gray (shaly), mostly translucent, most of the chert contains an abundance of siliceous sponge spicules (?)
5760	5766	6	Siltstone, medium light to dark-gray (shaly), glauconitic at the top, slightly dolomitic, Cherty
5766	5771	5	Chert (silty) to siltstone, medium- to dark-gray (shaly), slightly dolomitic
577 <u>1</u>	5817	46	Chert, medium- to dark-gray, "dead", shaly to a grayish-black siliceous shale; a very small amount of white dolomite
5817	5825	8	Chert, dark-gray, shaly to a grayish-black sili-
58 <b>25</b>	58 <b>56</b>	31	Shale (highly silicified) to shale, grayish-black to black; trace of white dolomite

			Oriskany Sandstone, 27 (?) Feet.	
535 <b>6</b>	58 <b>61</b> .	5	Sandstone, very light to light-gray, fine- to medium-grained, subrounded to rounded, (clear, glassy quartz), some coarse (rounded) grains, cal- careoud	
5861	5863	2	Sandstone, light-gray, fine-grained, highly cal- careous	
5863	5867	4	Sandstone, light-gray, fine- to medium-grained, some coarse grains, subrounded to rounded, very highly calcareous in part; some dark interstial material	
5867	5871	4	Sandstone (highly calcareous) to limestone, (very shaly, very sandy), medium- to dark-gray, very fine to medium-grained (rounded)	
5871	5874	3 🟦	Sandstone, medium-gray, conglomeratis, very fine to very coarse grained, subrounded to rounded, very highly calcareous	
5874	5875	1	Sandstone, Very light gray, fine grained, some med- ium grains, subrounded to rounded, highly calcareous	
5875	5883	8	Sandstone, light- to medium-gray, very fine to medium-grained, very highly calcareous to a very sandy limestone	
_			Helderberg Formation, 205, plus Feet.	
5883	5839	6	Limestone (very sandy and silty) to sandstone (very finely very shaly in part, very highly calcareous), medium- to dark-gray (with layers of grayish-black shale), many fine to medium grains in the lower part	
5889	58 9 <b>6</b>	7	Sandstone, medium-gray (with dark-gray, shaly streaks), very fine to fine-grained, subrounded, many medium (rounded) grains, very highly calcareous	
589 <b>6</b>	5898	2	Sandstone, light-gray (with medium- to dark-gray, shaly spots and streaks), mostly fine to medium- grained; highly calcareous	
5898	5900	2	Sandstone, light- to medium-gray, very fine to fine-grained, some dark (shaly) material, very highly calcareous	
5900	5915	15	Siltstone to sandstone (very fine), dark-gray, some medium-gray, very shely worr highly	
(Befinitely Helderberg)			some medium-gray, very shaly, very fine), dark-gray, with some silty and sandy limestone, contains many fine to medium sand grains, somewhat lighter in color from 5910-5915', some fossil fragments	
5915	5919	4	Sandstone, medium- to dark-gray, very fine to fine- grained, some medium grains in the upper part, very silty to a very shaly siltstone (dark-gray to grayish- black), very highly calcareous	
5919	5920	1	Sandstone, light- to medium-gray (somewhat shaly), very fine to fine, some medium (rounded) grains, high- ly calcareous with spots of sandy limestone	
5920	5922	2	Limestone, medium-gray (with spots of white calcite and dark-gray shale), very sandy (very fine to medium grained)	

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5922	5934	12	Limestone (silty to siltstone (highly calcareous), medium- to dark-gray (with dark-gray to grayish- black, very shaly streaks), some fine to medium sand, some fossil fragments
59 <b>34</b>	5 <b>944</b>	10	Sandstone, light - to medium-gray, some dark-gray (shaly), very fine to fine-grained, highly calcareous
5944	5952	8	Limestone, (very sandy) to sandstone (very fine‡, highly calcareous), medium light to medium dark gray, some dark-gray to grayish-black (very shaly), silty
5952	5959	7	Sandstone, medium- to dark-gray, (very shaly), very fine to fine, some medium to coarse grains, very highly calcareous to a very shaly (dark-gray to grayish-black) limestone
595 <b>9</b>	5962	3	Sandstone, light- to medium-gray, very fine to fine-grained, some medium grains, contains some dark (shaly) material, highly calcareous
5962	5975	13	Sandstone, (fine to medium-grained, some coarse rounded and some very fine grains, very highly cal- careous) to limestone (very sandy), medium light to medium-gray (with white calcite spots and some dark- gray (shaly) material), mostly fine to very fine, calcareous sandstone in the lower part
59 <b>75</b>	5984	9	Limestone, medium-gray (with dark-gray, shaly streaks and white to light-gray spots), very sandy (very fine to medium grains), very silty and very shaly in part
5984	599 <b>1</b>	7	Limestone (very sandy) to sandstone (fine to very fir fine, very highly calcareous), medium-gray with dark- gray (shaly) streaks and light-gray spots
5991	6002	11	Sandstone, medium light to dark-gray (very shaly), very fine to fine-grained, some medium grains, very highly calcareous with some limestone spots
60 <b>02</b>	<b>6</b> 00 <b>8</b>	6	Sandstone, medium light gray, very fine to fine - grained, calcareous, very highly calcareous in the lower part
6008	6020	12	Limestone (very sandy) to sandstone [very highly calcareous, very fine), medium-gray, a large amount of dark-gray to grayish-black (very shaly) at 6015 to 6017'
6020	602 <b>7</b>	7	Sandstone, very light to medium light gray, fine- to medium-grained in the upper part, fine-grained in the lower part, subrounded, contains some black interstitial marerial, calcareous
6 <b>027</b>	6033	6	Sandstone, light-gray, fine-grained, some medium grains, highly calcareous, this and the above inter- val look like Oriskany Sand; some medium- to dark- gray, very fine to fine-grained, highly calcareous sandstone at the bottom
6033	6039	6	Sandstone, medium-gray (with grayish-black, very shaly streaks), very fine grained, very highly cal-
6039	6047	8	Siltstone and sandstone (very fine), very highly calcareous to limestone, medium- to dark-gray
6047	60 5 3	6	Sandstone, medium-gray, very gine, somedark-gray (shaly), highly calcareous to limestone
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6053	6062	9	Sandstone, light- to medium-gray, some dark-gray, very fine grained, very highly calcareous, some fine-to medium-grained in the lower part
6062	6074	12	Limestone, medium dark to dark-gray with light- gray spots, mostly dark-gray at the top, somewhat sandy (very fine to fine)
6074	6083	9	Limestone, medium- to dark-gray (with Light-gray spots, very sandy (very fine to fine), slightly dolomitic
6083	6088	5	San_dstone, medium light gray, very fine grained, very highly calcareous, slightly dolomitic
	6086		TOTAL DEPTH - From driller's log.

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