

5-12-52
C

Charles V. Ringer No. 9414 Well.

Portland District, Preston County, W. Va.
 By Hepe Natural Gas Co., 445 W. Main St., Clarksburg, W. Va.
Preston No. 15

Kingwood Quadrangle - NE.

Located 4.01 miles S. of 39° 30' and 3.63 miles W. of 79° 30'.
 Elevation 2194' L.

Drilling commenced April 27, 1950; completed August 21, 1950.

Gas Well - Volume 368,000 Cu. Ft.

Rock Pressure 1760 pounds in 24 hours.

Fresh Water at 118 feet.

13" casing, 24'; 10", 502'; 8-1/4", 1671'; 6-5/8", 5488'; all left in.

Casing cemented 7" and 8-5/8" set in cement.

Gas at 5523-26, 5547, 5580-97'; 5634-5638'; 5885-5911'.

Section based on samples from 4592 to 5983'; examined by Russell R. Flowers.

Top	Bottom	Thickness	
4592	4641	49	Shale, dark-gray to grayish-black, some medium-to dark-gray, silty
4641	4712	71	Shale, mostly grayish-black, somewhat carbonaceous <u>Tully Limestone, 22 Feet.</u>
4712	4725	13	Limestone, olive-gray to dark-gray, highly argillaceous
4725	4734	9	Shale, dark-gray, some grayish-black, calcareous <u>Hamilton & Marcellus Shales, 732 Feet.</u>
4734	4800	66	Shale, dark-gray to grayish-black
4800	4850	50	Shale, dark-gray, some dark-gray to grayish-black, calcareous
4850	4926	76	Shale, dark-gray to grayish-black, somewhat calcareous
4926	4984	58	Shale, dark-gray, some dark-gray to grayish-black in the lower part; small amount is calcareous
4984	5119	135	Shale, dark-gray to grayish-black
5119	5236	117	Shale, very dark gray, somewhat dolomitic in part, silty in part
5236	5300	64	Shale, dark-gray, some dark-gray to grayish-black in the lower part, slightly calcareous and slightly dolomitic
5300	5401	101	Shale, dark-gray to grayish-black, some grayish-black to black in the middle and lower parts, small amount is calcareous and dolomitic
5401	5433	32	Shale, grayish-black to black, carbonaceous, calcareous; a large amount of dark-gray, highly calcareous and dolomitic shale; small amount of calcite and pyrite
5433	5466	33	Shale, grayish-black to black, carbonaceous, pyritic; highly calcareous in part

Onondaga Group, 167 Feet.

5466	5487	21	Shale, grayish-black to black (highly calcareous) at the top to a grayish-black, very shaly limestone at the bottom, slightly pyritic; some brownish-gray to brownish-black metabentonite at the top; small amount of vein calcite and a trace of vein quartz at the top
5487	5489	2	Chert, dark-gray to grayish-black, highly argillaceous, calcareous, somewhat dolomitic
5489	5496	7	Chert, medium- to dark-gray, some light-gray in the lower part; highly dolomitic and calcareous in part
5496	5505	9	Chert, mottled light-gray (transparent to translucent) and dark-gray (argillaceous), calcareous and dolomitic, spicular, silty and slightly glauconitic in part
5505	5511	6 12	Chert, light- to medium-gray, translucent to opaque, spicular, somewhat dolomitic, brecciated with argillaceous fillings
5511	5523	12	Chert, white to light-gray, transparent to translucent, spicular, highly brecciated with argillaceous and quartz fillings; contains a little argillaceous material, slightly dolomitic
5523	5526	3	Chert, white to light-gray (transparent to translucent, spicular) mottled with some dark-gray (highly argillaceous), somewhat dolomitic
5526	5537	11	Chert, mottled light-gray (mostly translucent) and dark-gray (argillaceous), spicular, brecciated with quartz and argillaceous fillings, slightly dolomitic
5537	5541	4	Chert, light- to medium-gray, some dark-gray spots (argillaceous), translucent to opaque, silty, slightly dolomitic
5541	5562	21	Chert (silty) to siltstone, medium-gray to dark-gray, some dark-gray to grayish-black, (argillaceous) somewhat dolomitic, spicular in part, small amount is glauconitic at 5549 to 5555', pyritic in the lower part
5562	5591	29	Chert, medium- to dark-gray (opaque), a moderate to large amount of grayish-black (highly argillaceous), slightly dolomitic
5591	5604	13	Chert, dark-gray to grayish-black, silicified shale
5604	5618	14	Shale, grayish-black, is silicified shale; some dark-gray chert
5618	5632	14	Shale, grayish-black

Ridgely Sandstone, 41 Feet.

(Top 11 feet like subsurface Oriskany in the Charleston area).

5632	5639	5	Sandstone, very light to light-gray, fine- to medium-grained, some coarse grains, subrounded to rounded, calcareous, contains a small amount of dark (argillaceous) interstitial material
5639	5643	4	Sandstone, light-gray, fine-grained at the top, fine to very fine grained at bottom, some medium to coarse grains, subrounded to rounded; highly calcareous, a few fossil fragments

5643	5653	10	Sandstone (highly calcareous) to a very sandy limestone, light- to medium-gray, some dark-gray to grayish-black (shaly) streaks, very fine to medium-grained, some coarse grains, the larger grains are rounded; trace of chert (lacy), fossiliferous
5653	5662	9	Sandstone, medium light gray, some dark-gray (argillaceous), highly calcareous, very fine to fine-grained with many medium to coarse (rounded) grains in the upper part; some fossil fragments
5662	5674	12	Sandstone, medium- to dark-gray with light-gray spots, very fine to fine-grained, some medium to coarse grains, silty, argillaceous, highly calcareous

Onondaga Group, 210 Feet.

5674	5686	12	Shale, grayish-black, silicified to a dark-gray chert, somewhat calcareous, slightly dolomitic
5686	5690	4	Chert, white to medium-gray (spicular) with dark-gray to grayish-black (shaly) streaks, brecciated with quartz and argillaceous fillings, somewhat dolomitic
5690	5719	29	Chert, white to medium-gray (ordinary to transparent) mottled with dark-gray to grayish-black (argillaceous), highly spicular, slightly dolomitic
5719	5727	8	Siltstone to chert, mottled medium dark gray and grayish-black (highly argillaceous), dolomitic
5727	5754	27	Chert, medium dark gray to grayish-black (highly argillaceous), very silty, small amount is dolomitic
5754	5771	17	Chert, medium dark gray, a large amount of dark-gray to grayish-black (highly argillaceous), slightly dolomitic
5771	5807	36	Chert to silicified shale, medium dark gray to grayish-black; trace of dolomite
5807	5837	30	Shale, dark-gray to grayish-black, highly silicified; some medium dark gray chert
5837	5860	23	Shale, grayish-black, silicified
5860	5876	16	Shale, grayish-black
5876	5884	7	Shale, grayish-black; some medium- to dark-gray, highly calcareous, shaly chert

Ridgeley Sandstone, 54 Feet.

(Top 11 feet like subsurface Oriskany in Charleston Area).

5884	5890	6	Sandstone, light-gray, some very light gray, some medium-gray, fine-grained, some medium grains calcareous, highly calcareous at the bottom, quartzitic, a small amount of interstitial shaly material
5890	5895	5	Sandstone, very light to light-gray, very fine to medium-grained, subrounded, highly calcareous, some fossil fragments
5895	5898	3	Sandstone, light- to medium-gray with some grayish-black (shaly) streaks, very fine to medium-grained, some coarse grains, the larger grains are rounded, highly calcareous, some fossil fragments

5898	5901	3	Sandstone (highly calcareous) to limestone (very sandy), medium- to dark-gray (argillaceous), very fine-grained, some medium to coarse (rounded) grains in the lower part
5901	5919	18	Sandstone, light- to medium-gray, very fine to medium-grained, some coarse grains; the larger grains are rounded, silty, very highly calcareous with limestone spots; contains some argillaceous material
5919	5933	14	Sandstone, medium- to dark-gray (argillaceous, with grayish-black shale streaks), very fine to fine grained, some medium to coarse (rounded) grains, silty, highly calcareous
5933	5938	5	Sandstone (very fine, silty), medium- to dark-gray, argillaceous, contains some fine to medium grains (rounded)
<u>HELDERBERG FORMATION, 45, plus, Feet.</u>			
5938	5942	4	Sandstone (very fine) to siltstone, grayish-black (very shaly) at top to dark-gray (shaly) at the bottom, a few fine to medium quartz grains, highly calcareous
5942	5959	17	Limestone (very silty) to siltstone and sandstone (very fine), highly calcareous, medium- to dark-gray with grayish-black (silty) streaks and light gray sandstone (fine to medium) spots; some white calcite
5959	5969	10	Limestone (very sandy) to sandstone (highly calcareous), light- to medium-gray mottled with dark-gray to grayish-black (highly argillaceous), very silty; the sand is very fine to coarse-grained (large grains are rounded), fossiliferous, a little porous chert in the lower part
5969	5974	5	Siltstone (very shaly) to shale (very silty), dark-gray to grayish-black (with white to medium-gray, sandy, cherty limestone spots), very highly calcareous
5974	5977	3	Siltstone (sandy) to sandstone (very silty), light- to dark-gray, very highly calcareous, argillaceous, some of the sandstone is fine- to medium-grained and rounded
5977	5983	6	Sandstone, light-gray (with some medium- to dark-gray argillaceous spots), very fine to medium-grained, subrounded to rounded, mostly very fine grained at the bottom, highly calcareous
5983			TOTAL DEPTH