

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Rit 1256

Elizabeth Quad.

Dry Hole
CASING & TUBING

Company	Hope Natural Gas Company				
Address	445 West Main St., Clarksburg, W.Va.				
Farm	Jessie Powell	Acres 224	16	101	Pld.
Location			13	473	Pld.
Well No.	9300	Elev. 1006	10	1172	1172
District	Grant	Ritchie County	8 1/2	2411	2411
Surface			6 5/8	3885	3885
Mineral					
Commenced	Oct. 1, 1948		CASING CEMENTED:		
Completed	May 6, 1949		7" set in 30 bags		
Salt Water	5650	5680	No coal cement		

Clay	0	38	Slate Shell	1933	2035
Sand	38	61	Berea horizon	2036	2060
Slate Shell	61	81	Slate Shell	2060	2314
Lime	81	96	Broken Sand	2314	2407
Sand	96	107	Sand Shell	2420	2596
Slate Shell	107	115	Lime Shell	2596	2638
Red Rock	115	135	Slate Shell	2638	2762
Slate Shell	135	195	Slate	2762	2780
Pink Rock	195	304	Gray Sandshale	2780	2830
Sand	204	226	Broken Lime	2830	2965
Slate	226	270	Lime Shell	2965	3352
Red Rock	270	315	Bl. Slate	3352	3397
Slate	315	327	Dark Lime	3397	3420
Lime	327	339	Slate Shell	3420	3879
Red Rock	339	372	Hard Lime	3879	3922
Slate	372	387	Slate Shell	3922	4725
Red Rock	387	443	Br. Shale	4725	4750
Slate	443	463	Slate Shell	4750	4930
Red Rock	463	470	Br. Slate	4930	4975
Sand	470	482	Slate Shell	4975	5045
Slate Shell	483	535	Br. Shale	5045	5220
Red Rock	535	572	Bl. Lime	5220	5248
Slate Shell	572	597	Br. Shale	5248	5298
Red Rock	597	625	Gray Lime	5298	5343
Lime	625	636	Br. Shale	5343	5392
Slate	636	664	Black Shale	5392	5468
Lime	664	692	Coriferous Lime - <i>HEVL</i>	5468	5655
Slate Shell	692	748	Oriskany Sand	5655	5760
Lime	748	763	Total depth - <i>Haldenborg</i>	5760	5810
Sand	763	788			
Slate	788	825	Show oil 210		
Sand	825	855	Show oil 1555		
Slate	855	858	Show oil 1800 show gas 1862		
Lime	858	870	Gas 1920-1933		
Slate	870	908	Show oil gas 2316 2329		
Sand	908	944	Show oil 2626 2636		
Slate	944	1002	Gas 2725		
Lime	1002	1015	Oil 2785 2790		
Slate	1015	1019	Show gas 4690		
Lime	1019	1035			
Sand	1035	1077			
Slate	1077	1120			
Shell	1120	1125			
Pink Rock	1125	1133			
Lime	1133	1148			
Slate	1148	1170			
Maxon	1170	1320			
Broken Slate	1320	1355			
Sand	1355	1375			
Slate Shell	1375	1412			
Blue Monday	1412	1430			
Big Lime	1430	1504			
Big Injun	1504	1630			
Slate Shell	1630	1900			
Gritty Shale	1900	1933			

5468 5655
 1006 1006

 - 4462 - 4649
 5760
 1320
 7734

485

JESSIE POWELL NO. 9300 WELL.

Grant District, Ritchie County, W. Va.

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

Located 0.78 mi. S. of 39° 15' and 0.45 mi. W. of 81° 15' - NE - Elizabeth Quadrangle.

Elevation, 1006' L.

Permit Rit-1256.

Drilling commenced Oct. 1, 1948; completed May 6, 1949.

Dry hole.

Salt water, 5650-5680'.

16" casing, 101' (pulled); 13", 473' (pulled); 10", 1172'; 8½", 2411'; 6½", 3885'.

Show oil, 210', 1555', and 1800'; show gas, 1855', 1920-1933'; show oil and gas, 2316-2329'; show oil, 2626-2636'; gas, 2725'; oil, 2785-2790'; show gas, 4690'.

No coal was encountered.

Section based on samples from 0 to 5810'; examined by Russell R. Flowers.

Top. Bottom. Thickness.

PENNSYLVANIAN, 1430+ FEET

0 -	20	20	Clay, grayish-red to grayish-brown with varicolored limestone nodules; some light-gray to olive-gray and grayish-red limestone at the bottom.
20 -	30	10	Shale (silty) and siltstone to sandstone (fine), medium and medium dark gray to greenish-gray; very highly micaceous (biotite and muscovite), chloritic
30 -	61	31	Sandstone, very light to light-gray, fine- to medium-grained, subrounded to rounded, fine to very coarse at the bottom, calcareous, micaceous, chloritic; some light-gray to greenish-gray, very highly micaceous (biotite and muscovite), chloritic sandstone at the top; some medium-gray to dark greenish gray, highly chloritic sandstone at the bottom
61 -	69	8	Clay, dark greenish gray, dark-gray, some grayish-black in the lower part, light olive gray to dark greenish gray, grayish-brown to grayish-red, dark-gray to grayish-black; some limestone nodules
69 -	80	11	Shale (soft) and siltstone, greenish-gray to dark greenish gray (chloritic)
80 -	98	18	Siltstone, medium-gray to greenish-gray, chloritic, micaceous; at the bottom, sandy (very fine), highly micaceous (muscovite and biotite)
98 -	107	9	Sandstone, light-gray, very fine to fine-grained, mostly fine at the top, somewhat calcareous at the bottom, a little chlorite and mica
107 -	111	4	Clay-shale, greenish-gray to medium dark gray, silty
111 -	120	9	Clay, olive-gray to grayish-olive and dark greenish gray at the top to brownish-gray and very dusky red at the bottom; contains varicolored limestone nodules
120 -	132	12	Clay, with limestone nodules, grayish-brown to dusky-brown and some greenish-gray to olive-gray in the upper part; greenish-gray to medium dark gray (very silty), dusky-brown to very dusky red, and some olive-gray in the lower part
132 -	143	11	Siltstone, medium dark gray to dark greenish gray, highly micaceous, highly chloritic, some limestone nodules
143 -	153	10	Shale, brownish-gray to grayish-brown, silty to a medium dark and dark greenish gray siltstone
153 -	170	17	Siltstone, medium dark gray to dark greenish gray, highly micaceous and highly chloritic, some brownish-gray to dark-gray at the top, calcareous in part; mostly medium-gray, micaceous and chloritic siltstone to sandstone (very fine) at the bottom
170 -	175	5	Sandstone, light-gray to greenish-gray, very fine; some dark greenish gray siltstone

(OVER, p. 2)

Top.	Bottom.	Thickness.	
175	187	12	Siltstone and some shale, medium dark to dark-gray, some dusky yellowish brown (highly sideritic), micaceous
187	200	33	Clay, olive-gray to medium-gray and grayish-brown; some olive-gray to brownish-gray limestone; a moderate amount of siltstone to very fine sandstone at the top to a large amount at the bottom, medium- to dark-gray, micaceous and chloritic; trace of black carbonaceous shale
200	204	4	Siltstone, dark greenish gray, highly chloritic, micaceous
204	229	25	Sandstone, light-gray, fine-grained in the upper part, fine to medium with some coarse in the lower part, some of the sand grains are chloritic rock fragments
229	234	5	Clay, gray
234	266	32	Siltstone, medium- to medium dark gray and dark greenish gray, highly chloritic, highly micaceous; sideritic in part; a large amount of medium- to dark-gray shale with sideritic specks at 251 to 255'; mostly medium to medium dark gray with streaks of siderite in the lower part
266	280	14	Siltstone, dark greenish gray to medium dark gray, highly chloritic and highly micaceous; some grayish-brown to very dusky red shale
280	292	12	Siltstone, medium-gray to dark greenish gray, highly chloritic and highly micaceous (biotite and muscovite); a large amount of grayish-brown clay-shale
292	300	8	Clay, brownish-gray to dusky-brown, some medium-gray to dark-gray and olive-gray; some medium-gray to greenish-gray, very silty
300	315	15	Siltstone, medium dark gray (with some green), very highly micaceous (biotite and muscovite), chloritic; some olive-gray and brownish-gray to grayish-brown clay and clay-shale at top to a large amount at the bottom
315	325	10	Some coal to grayish-black shale in the lower part and some grayish-black and dark-gray shale in the upper part; a large amount of greenish-gray to medium- and medium dark gray sandstone (fine and very fine) to siltstone with some shale at the top to a moderate amount at the bottom; some olive-black fossiliferous shaly limestone at the top to a dark-gray to olive-gray, black, fossiliferous, calcareous shale at the bottom
325	331	6	Clay, medium- to dark-gray, with light-gray to olive-gray limestone nodules
331	336	5	Limestone, light-gray to olive-gray, very sandy to a greenish-gray, calcareous, very fine sandstone
336	342	6	Siltstone to sandstone (very fine), medium-gray to greenish-gray and dark greenish gray, micaceous and chloritic, highly calcareous in part; some brownish-gray to grayish-brown shale
342	354	12	Clay, grayish-olive to moderate yellowish brown, brownish-gray to very dusky red; contains many limestone (fossiliferous) nodules
354	370	16	Clay to shale (soft), dusky-brown to grayish-red, a large amount of moderate yellowish brown; contains limestone nodules
370	387	17	Clay-shale, medium-gray to greenish-gray, very silty, brownish-gray to very dusky red, grayish-olive to moderate yellowish brown (highly calcareous to shaly limestone)
387	425	38	Clay, with limestone nodules, moderate yellowish brown to brownish-gray to very dusky red
425	438	13	Clay, grayish-brown to very dusky red; a large amount of light-gray to olive-gray and some grayish-brown limestone in the lower part

Top.	Bottom.	Thickness.	
438 -	447	9	Siltstone, medium-gray to dark greenish gray; this interval is mostly clay with limestone nodules, moderate yellowish brown to grayish-brown
447 -	459	12	Siltstone to sandstone (very fine), greenish-gray to dark greenish gray; some clay with limestone nodules, moderate yellowish brown to very dusky red
459 -	468	9	Clay and clay-shale, medium-gray to brownish-gray and very dusky red at the top to grayish-brown and very dusky red with some medium-gray and moderate yellowish brown at the bottom
468 -	474	6	Shale (highly calcareous) to limestone, medium-gray to greenish-gray and moderate yellowish brown, some grayish-brown to very dusky red; a moderate amount of greenish-gray, very fine, calcareous sandstone
474 -	485	11	Sandstone, light-gray to greenish-gray, some dark greenish gray (very silty), chloritic, some mica, calcareous
485 -	493	8	Siltstone and shale, medium dark gray to dark greenish gray, calcareous at the bottom
493 -	500	7	Limestone, light-gray to olive-gray and brownish-gray, very silty and sandy at the top
500 -	512	12	Sandstone, light olive gray to greenish-gray, very fine to fine-grained, highly calcareous in the upper part; a moderate to large amount of medium dark to dark-gray, silty shale; small amount of grayish-black to black, "coaly" shale
512 -	519	7	Siltstone and shale, medium- to dark-gray, some dusky yellowish brown (highly sideritic); a very small amount of grayish-black to black "coaly" shale
519 -	528	9	Some coal to black, carbonaceous shale and some light-gray to olive-gray limestone at the top; clay, light- to medium-gray with many limestone nodules
528 -	535	7	Siltstone and shale to limestone, medium-gray and greenish-gray to olive-gray and dark-gray
535 -	558	23	Clay, grayish-brown to moderate yellowish brown, some very dusky red, contains many limestone nodules and some light- to medium-gray limestone
558 -	572	14	Clay and limestone, grayish-brown to reddish-gray, some very dark red, olive-gray to moderate yellowish brown, much light-gray to greenish-gray in the lower part
572 -	596	24	Siltstone and shale in the upper part to siltstone, shale, and sandstone (very fine) in the lower part, greenish-gray to dark greenish gray, calcareous in part, chloritic, sideritic in part; some varicolored limestone and clay
596 -	605	9	Clay-shale, brownish-gray to dusky-brown, some medium-gray to greenish-gray at the bottom
605 -	612	7	Clay, moderate yellowish brown to grayish-brown and very dusky red; mostly grayish-brown to very dusky red clay with limestone nodules in the lower part
612 -	624	12	Clay, moderate yellowish brown to olive-gray, a large amount of light- to medium-gray and some dusky-brown at the top, a very large amount of dusky-brown to very dusky red at the bottom
624 -	645	21	Siltstone and shale, dark greenish gray, small amount is sideritic
645 -	663	18	Shale and siltstone, medium-gray to greenish-gray and dark greenish gray, sideritic and sandy in the middle part; clay and limestone, moderate yellowish brown to very dusky red, light-gray to olive-gray (cavings?)

Top.	Bottom.	Thickness.	
663	- 680	17	Sandstone (very fine) with layers of siltstone, medium dark gray to dark greenish gray, very highly micaceous (biotite and muscovite), chloritic, calcareous, sideritic (spherulites)
680	- 687	7	No sample
687	- 692	5	Same as interval 663 to 680'
692	- 699	7	Shale and siltstone, grayish-black, micaceous
699	- 713	14	Shale, black, some grayish-black to black, carbonaceous, with calcified fossils (gastropods?), some highly carbonaceous shale to coal at the bottom; some varicolored clay and limestone (cavings?)
713	- 729	16	Shale, medium to medium dark gray; sandstone, light-gray, very fine, calcareous; some black, fossiliferous shale to coal
729	- 740	11	Clay, medium- to medium dark gray and dark greenish gray, sideritic (specks and spherulites), contains limestone nodules
740	- 750	10	Clay, greenish-gray to dark greenish gray, some very dusky red to reddish-gray, some moderate yellowish brown
750	- 760	10	Siltstone, greenish-gray to dark greenish gray
760	- 771	11	Sandstone, light-gray to greenish-gray, very fine grained, micaceous and chloritic, highly micaceous in part (much biotite), calcareous
771	- 776	5	Sandstone, light-gray with greenish-gray micaceous spots, fine- to coarse-grained, subangular to subrounded, calcareous
776	- 788	12	Shale and siltstone, medium dark gray to dark greenish gray
788	- 800	12	Clay with a little limestone, varicolored with light- to medium-gray predominant
800	- 811	11	Shale and siltstone, medium dark to dark-gray; small amount is highly sideritic
811	- 820	9	Sandstone, medium light to medium dark gray, very fine grained, highly micaceous (much biotite), chloritic
820	- 862	42	Sandstone, very light to light-gray, fine- to medium-grained, subrounded to rounded, some coarse grains, micaceous and chloritic; somewhat calcareous; a large amount of medium dark to dark-gray siltstone and silty shale at the bottom
862	- 870	8	Limestone (argillaceous) to shale (highly calcareous), olive-gray and brownish-gray to dark-gray
870	- 877	7	Clay, medium- to dark-gray, some light-gray
877	- 898	21	Shale, medium dark to dark-gray, some light-gray, sideritic in part, many scattered siderite spherulites at the top, some dark-gray to olive-black at the bottom
898	- 903	5	Clay, light- to dark-gray, very dusky red to moderate yellowish brown; a large amount of medium-dark to dark-gray shale; small amount of coal
903	- 908	5	Coal
908	- 940	32	Sandstone, light- to medium-gray (silty), very fine grained, micaceous and chloritic; sideritic; mostly siltstone at the top
940	- 946	6	Sandstone, light-gray, medium-grained; a large amount of shale, dark-gray to grayish-black
946	- 952	6	Clay-shale, light- to dark-gray, somewhat sideritic (spherulites); some grayish-black to black shale
952	- 972	20	Siltstone and shale, medium dark to dark-gray, sideritic to very highly sideritic; a large amount of grayish-black to black, highly carbonaceous shale and some dusky-brown shaly siderite at the bottom
972	- 986	14	Clay, medium-gray to olive-gray at the top to light-gray to grayish-black clay-shale; small amount of dusky yellowish brown, shaly siderite; small amount of coal at the top

(Continued on p. 5)

Top.	Bottom.	Thickness.	
986	- 1000	14	Siltstone and shale, medium- to dark-gray, micaceous, somewhat sideritic; highly sideritic and some shaly siderite at the bottom
1000	- 1015	15	Siltstone to clay, light olive gray, highly silicified, contains many plant rootlets; sideritic in part, a very small amount is carbonaceous at the top (ganister?)
1015	- 1020	5	Clay, medium- to dark-gray, some dark greenish gray
1020	- 1027	7	Siltstone, light- to medium-gray, very highly sideritic in part; some varicolored clay
1027	- 1036	9	Siltstone and shale, dark-gray, some dark-gray to olive-black
1036	- 1060	24	Sandstone, light- to medium light gray, mostly fine-grained, subrounded to rounded, highly argillaceous, chloritic and micaceous, contains detrital rock fragments, a large amount of varicolored clay at the bottom
1060	- 1067	7	Siltstone, dark-gray, highly micaceous, very highly sideritic, with some grayish-brown clay at the bottom
1067	- 1075	8	Sandstone, light-gray (with dark yellowish brown sideritic specks and streaks), very fine grained, very silty, contains some mica and chlorite, some carbonaceous material
1075	- 1092	17	Clay, olive-gray to brownish-gray, silty; shale, dark-gray to grayish-black, silty; small amount of siderite at the bottom
1092	- 1105	13	Siltstone, dark-gray to grayish-black, shaly, micaceous, carbonaceous; some varicolored clay
1105	- 1115	10	Shale, dark-gray to grayish-black, small amount of siderite in the lower part
1115	- 1120	5	Coal to black, carbonaceous shale
1120	- 1126	6	Sandstone, olive-gray, highly argillaceous, very fine grained, some muscovite; small amount of coal to black shale
1126	- 1136	10	Siltstone, dark-gray to grayish-black (with black, carbonaceous layers)
1136	- 1143	7	Siltstone and silty shale, light- to medium-gray, some olive-gray, sideritic (spherulites); some black "coaly" shale at the top
1143	- 1160	17	Siltstone and shale, medium dark to dark-gray, some olive-gray to dark-gray, micaceous; some shale, grayish-black to black, carbonaceous; small amount of siderite
1160	- 1164	4	Sandstone (very fine) to siltstone, medium-gray, very shaly, much carbonaceous material, highly sideritic, micaceous
1164	- 1170	6	Siltstone and shale, dark-gray to olive-black, some dark-gray to grayish-black, small amount is highly sideritic; small amount of black "coaly" shale
1170	- 1194	24	Sandstone, medium light gray at the top to light-gray at the bottom, very fine to fine-grained, argillaceous, micaceous, and chloritic; some carbonaceous material at the top, somewhat sideritic
1194	- 1212	18	Sandstone, very light gray and medium-grained at the top to light brownish gray and fine-grained at the bottom
1212	- 1231	19	Sandstone, light-gray with some dark-gray (shaly) and dark-gray shale in the upper part, very fine to fine-grained, some medium grains, sideritic; some grayish-black to black shale with carbonaceous streaks in the lower part
1231	- 1240	9	Shale, dark-gray to grayish-black, some grayish-black to black (carbonaceous); small amount of dusky-brown siderite
1240	- 1252	12	Siltstone, medium dark to dark-gray with black carbonaceous streaks, shaly, micaceous

Top. Bottom. Thickness.

1252 - 1318	66	Sandstone, light-gray, very fine to fine-grained, fine- to medium-grained (subrounded) in the lower part, argillaceous; a large amount of dark-gray siltstone with black carbonaceous streaks at the top; small amount of siderite at the bottom
1318 - 1323	5	Shale (very silty) to siltstone (very shaly), dark-gray, micaceous, sideritic
1323 - 1348	25	Sandstone, light-gray, some light brownish gray (sideritic), fine- to medium-grained, subrounded, fine to very fine at the bottom, argillaceous; shale, dark-gray to grayish-black, a large amount at the top to some at the bottom; small amount of siderite
1348 - 1353	5	Shale, dark-gray
1353 - 1373	20	Sandstone, very light to light-gray, fine- to medium-grained, subrounded
1373 - 1380	7	Shale, dark-gray to grayish-black; small amount of medium dark gray siltstone; small amount of dusky-brown siderite
1380 - 1403	23	Shale, dark-gray to grayish-black, interlayered with light- to medium-gray siltstone to very fine sandstone, mostly shale at top and sandstone at the bottom; small amount is sideritic
1403 - 1418	15	Sandstone, light- to medium light gray, very fine to medium-grained, some coarse grains at the bottom, highly argillaceous, a few breaks of dark-gray to grayish-black shale
1418 - 1430	12	Sandstone, very light gray, medium- to coarse-grained, some very fine grains
GREENERIER LIMESTONE, 70 FEET		
1430 - 1447	17	Limestone, light olive gray to olive-gray; small amount of medium dark gray to dark greenish gray shale with tiny dusky-brown siderite spherulites (Mauch Chunk horizon?); some spherulites in the limestone
1447 - 1452	5	Limestone, moderate yellowish brown to olive-gray, slightly sandy (fine to medium, well-rounded); some dark greenish gray shale, very sandy in part
1452 - 1462	10	Limestone, light-gray to light olive gray, mostly oolitic at the top to very sandy at the bottom (very fine to fine, rounded)
1462 - 1467	5	Sandstone (highly calcareous) to limestone (very sandy), white to very light gray, very fine to fine-grained, rounded, some medium grains
1467 - 1482	15	Limestone, light olive gray to light brownish gray, very light gray at the bottom, oolitic
1482 - 1490	8	Limestone, very light to light-gray, very sandy (very fine), very silty
1490 - 1496	6	Limestone, light olive gray, very sandy and very silty; some light-gray, highly calcareous, very fine to medium-grained sandstone in the lower part; some medium-gray shale
1496 - 1500	4	Limestone, light olive gray, highly oolitic; silty to a medium light gray, highly calcareous siltstone, somewhat sandy (very fine to coarse), some medium-gray shale
POCONO FORMATION, 590 FEET		
1500 - 1507	7	Shale and some siltstone, greenish-gray to medium-gray, speckled with siderite spherulites; some dark-gray to grayish-black shale
1507 - 1530	23	Siltstone to sandstone (very fine), greenish-gray to medium-gray, somewhat sideritic
1530 - 1558	28	Sandstone, very light gray, some light-gray, fine-grained, slightly calcareous; some greenish-gray siltstone and shale at 1435 to 1443'

(Continued on p. 7)

Top.	Bottom.	Thickness.	
1558	- 1573	15	Siltstone, light-gray to light brownish gray and greenish-gray, very fine to medium-grained, somewhat calcareous
1573	- 1600	27	Siltstone to sandstone (very fine), medium-gray, some coarse sand grains; small amount of dark-gray silty shale
1600	- 1612	12	Sandstone, very light to medium-gray, very fine to coarse-grained, subangular to subrounded, silty, slightly calcareous
1612	- 1628	16	Sandstone, light-gray, fine-grained with a little siderite at the top to light-gray and light-brownish gray (somewhat sideritic), very fine to medium-grained sandstone in the middle part; in the lower part, sandstone, light brownish gray, very fine to fine-grained, highly sideritic; some dark-gray siltstone and shale and a little siderite in the middle part
1628	- 1695	67	Shale, dark-gray, some olive-black to dusky yellowish brown (highly sideritic); some medium dark to dark-gray siltstone
1695	- 1743	48	Shale, dark-gray; siltstone, medium- to medium dark gray; small amount of dark to dusky yellowish brown, highly sideritic shale and siltstone
1743	- 1784	41	Shale, dark-gray, some dusky yellowish brown (highly sideritic), silty; some medium dark gray siltstone
1784	- 2006	222	Siltstone and shale, medium dark to dark-gray, many of the samples contain small amounts of dusky yellowish brown (highly sideritic), small amount of dark-gray to grayish-black from 1980 to 2006'
2006	- 2022	16	Shale, dark-gray with some grayish-black at the top to dark-gray and grayish-black at the bottom
2022	- 2036	14	Shale, dark-gray to grayish-black, some dark-gray (Sunbury Shale); contains a trace of light-gray pyrite; very fine sandstone to siltstone at the bottom (Berea horizon?)
DEVONIAN SHALES, 3424 FEET			
2036	- 2090	54	Siltstone and shale, medium- to dark-gray
2090	- 5401	3311	Not described
5401	- 5460	59	Shale, black, some brownish-black, very highly carbonaceous; pyritic in part, very highly calcareous at the bottom
HUNTERSVILLE CHERT, 194 FEET			
5460	- 5463	3	Shale and siltstone, brownish-gray, very highly micaceous (metabentonite); limestone, brownish-black, shaly
5463	- 5469	6	Limestone, brownish-gray to brownish-black, very shaly, cherty in the lower part
5469	- 5474	5	Limestone, brownish-gray with some light-gray, shaly, cherty
5474	- 5478	4	Chert, very light gray (chalcedonic) to a brownish-gray, somewhat shaly, cherty limestone
5478	- 5486	8	Limestone, brownish-gray, some brownish-black in the lower part, shaly, very cherty to a light-gray chert (translucent)
5486	- 5495	9	Limestone, brownish-gray, very cherty to a light-gray, calcareous chert (mostly chalcedonic); some brownish-black, very shaly limestone at the bottom
5495	- 5505	10	Chert (calcareous) with some limestone, light-gray to brownish-gray; the chert is transparent to translucent
5505	- 5512	7	Limestone, brownish-gray, some brownish-black, shaly; chert, brownish-gray (calcareous) to light-gray (mostly chalcedonic); a large amount of brownish-black to black, calcareous shale at the bottom
5512	- 5521	9	Chert, light- to medium-gray and brownish-gray (highly calcareous), shaly; some brownish-black to black, shaly limestone to calcareous shale in the lower part
5521	- 5530	9	Chert to silicified shale, medium- to dark-gray with light-gray spots, very highly calcareous

Top.	Bottom.	Thickness.	
5530	- 5539	9	Chert (calcareous, argillaceous) to shale (silicified), highly calcareous to limestone (very shaly), medium-gray to brownish-gray, some brownish-black, dolomitic at the top
5539	- 5543	4	Chert, white to light-gray, chalcedonic; chert (calcareous) to limestone (shaly), light-gray to brownish-gray, some brownish-black, generally darker at the bottom
5543	- 5574	31	Limestone, brownish-gray, some light-gray, very shaly, very cherty to calcareous chert, somewhat dolomitic, mostly chert at 5554 to 5555'
5574	- 5609	35	Chert (highly calcareous) with some limestone (silicified), medium-gray to brownish-gray and brownish-black, shaly in part, somewhat dolomitic
5609	- 5613	4	Siltstone to silicified limestone, medium-gray to brownish-gray and dark-gray, glauconitic; shaly in part; some milky to transparent chert; a large amount of ordinary chert at the bottom
5613	- 5654	41	Chert (calcareous) and some limestone (silicified), shaly, medium-gray to brownish-gray, some brownish-black, slightly dolomitic; a large amount of brownish-black (shaly) at 5619 to 5622', somewhat shaly (fine to medium) and silty and glauconitic at the bottom
ORISKANY SANDSTONE, 105 FEET			
5654	- 5664	10	Sandstone, light-gray, fine- to medium-grained quartz (milky to transparent), rounded, some coarse grains, somewhat calcareous, a large amount of black interstitial material ("dead" oil?)
5664	- 5686	22	Sandstone, light-gray (with black interstitial material) at the top to very light gray, very fine to fine-grained, subrounded, some medium grains, mostly fine-grained from 5673 to 5676', fine- to coarse-grained at the bottom, somewhat calcareous
5686	- 5740	54	Sandstone, very light to light-gray, very fine to fine-grained, subrounded, contains some black interstitial material, somewhat calcareous, some medium grains at 5707 to 5709', mostly fine-grained at 5709 to 5714', highly calcareous at 5722', mostly fine-grained at 5729 to 5730', fine- to coarse-grained at 5737 to 5740'
5740	- 5743	3	Sandstone, light-gray, very fine grained, some fine grains, calcareous
5743	- 5746	3	Sandstone, light-gray, very fine grained at the top to fine-grained at the bottom, highly calcareous, some dark-gray (silty and shaly) at the bottom
5746	- 5753	7	Sandstone, light-gray, very fine to medium-grained, somewhat calcareous, contains a small amount of dark (shaly) material, very light gray and fine- to medium-grained at the top
5753	- 5759	6	Sandstone, light-gray, very fine to fine-grained, calcareous, some dark (shaly) material
HELDERBERG FORMATION, 51+ FEET			
5759	- 5763	4	Sandstone, light- to medium-gray, some dark-gray (very shaly), very fine grained, highly calcareous
5763	- 5770	7	Sandstone (highly calcareous) to limestone (very sandy) very shaly) to calcareous shale, light- to dark-gray, somewhat cherty
5770	- 5773	3	Limestone (sandy and silty) to a highly calcareous shale, dark-gray to grayish-black, with some light- to medium-gray, very cherty

(Continued on p. 9)

Top. Bottom. Thickness.

5773 - 5778	5	Siltstone and chert (calcareous) to limestone and calcareous shale, light-gray to brownish-gray, some dark-gray to grayish-black
5778 - 5783	5	Sandstone, medium-gray to brownish-gray, some dark-gray (very shaly) at the top, very fine grained, some fine to medium grains, very fine to medium-grained at the bottom, highly calcareous, very silty
5783 - 5787	4	Limestone, dark-gray and brownish-gray to brownish-black, some light-gray, very sandy (very fine to fine), silty
5787 - 5796	9	Limestone (very sandy), to sandstone (very fine to fine, highly calcareous), medium-gray to brownish-gray, with light-gray spots, some grayish-black (shaly)
5796 - 5802	6	Limestone, medium- to dark-gray, some light-gray, very silty and cherty to calcareous chert, shaly; some grayish-black, calcareous shale
5802 - 5807	5	Chert (calcareous) to shale (highly silicified), very silty and highly calcareous), light- to medium-gray; some dark-gray to grayish-black, calcareous shale
5807 - 5810	3	Chert (calcareous) to shale (highly silicified and highly calcareous), light- to dark-gray, silty
5810		Total depth

085-1256

Volcanic Oil Co.

Flora B Overfield

88

C. B. Boston

45

H. E. Kelle

94 1/4

Nashville Elliott

125 1/2
Deep Well

DEBORAH

Kelly

43 9/16

Robt. G. Stiles

127

MARTIN James

McFarland Freshwater

23

37 1/8

B. Weekley
21

John Cummings

5030
H-88
Dev. 70' 100 psi R.P.

And. Weekley
17

Elinore J. Freshwater
1978

& Coal Co.

H. E. McGinnis

611

Deep well below risk
HNG 10211

HNG 29300
R. G. Powell
1016 1/2

MYERS POINT

Wood Co. Petroleum Co.

Esther L. Go

248

James W. Powell
10714

Cornelia M. Drake

243

I 18 1/2

