

Julian Hill No. 7812 Well

Washington District, Boone County, W. Va.

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

Located 1.99 mi. W. of 31°50' and 2.82 mi. S. of 38°05' -30- Madison  
Quadrangle; 2.3 mi. W. of Haddleton in Turtle Creek.

Elevation, 1024 feet, L.

Permit, 800-414.

Drilling commenced July 4, 1938; completed, Oct. 15, 1938.

Fresh water at 580'; salt (?) water at 405'.

8 1/2" casing, 1121'; 6 5/8", 1335'; 5 3/16", 4253'.

Casing not cemented. No coal was found.

Gas well in Berea.

Top Bottom Thickness

Greenbrier Limestones, 189 feet

1295			Reported top of Big Lime (may be higher)
1332	1350	18	Limestone, light-brown (light-gray when dry)
1350	1370	20	Limestone, light-brown, oolitic, moderately sandy; some of supposed oolites may be micro fossils
1370	1376	6	Limestone, light grayish yellow, somewhat dolomitic
1376	1397	21	Limestone, light grayish yellow, sandy, oolitic; oolites are abundant and distinct
1397	1412	15	Limestone, light-red, oolitic; oolites are abundant and distinct; a little sand from 1397 to 1407' and somewhat more, 1407 to 1412'
1412	1423	11	Limestone, light-brown, oolitic, sandy
1423	1472	49	Limestone, light-brown (gray when dry), dolomitic; contains some oolites and a little sand (gas, 1333 and 1441'; gas, 1445-1450'; gas, 1467-1472')
1472	1477	5	Dolomite, light-gray, sandy; a little green shale and siltstone
1477	1484	7	Dolomite, light-gray with some red; contains about 20% of white granular anhydrite, and a little sand

Top Bottom Thickness

Maocrazy and Pocono Formations, 520 feet

1484	1500	16	Siltstone, red (gas at 1490-1498')
1500	1875	375	No samples
1875	1950	75	Siltstone, gray to light-brown, 60 to 80% gray shale, 40 to 20%
1950	1958	8	Shale, gray
1958	1973	15	Shale, black (Sunbury Shale)
1973	2000	27	Sandstone, light-gray to nearly white, medium-grained; slightly calcareous, some pyrite throughout and especially high concentration of pyrite at top (gas at 1976-1980' and 1982-1989')
2000	2004	4	Sandstone, nearly white, fine, slightly calcareous; broken more in chips than the sandstone above (Berea Sandstone 1973 to 2004')

Devonian Shales, 2228 feet

2004	2106	102	Shale, gray, with thin streaks of siltstone
2106	3620	1514	No samples
3620	4000	380	Shale, gray; apparently about all medium- to light-gray, but samples are not continuous
4000	4060	60	Shale, dark-gray to black, pyritic
4060	4072	12	Shale, gray; about 10% of light-brown limestone
4072	4152	80	Shale, dark-gray to black, partly brownish; contains only slight traces of calcareous material; considerable pyrite
4152	4160	8	Shale, gray, not so dark as that above and below
4160	4232	72	Shale, dark-gray to black, slightly calcareous

Huntersville Chert, 67 feet

4232	4241	9	Limestone, brown, cherty; small amount of brown siltstone, rich in biotite
4241	4270	29	Limestone; brown, very cherty; some samples are actually at least half light-gray translucent chert
4270	4299	29	Limestone, light-brown, cherty and sandy; contains variable but generally considerable amount of detrital quartz of silt to fine sand size, generally accompanied by small

Top Bottom Thickness

amount of glauconite; some dolomite throughout; at bottom (4997 to 4999') there is a little more dolomite and glauconite and the sand is coarser than above

Oriskany Sandstone, 6 feet

4299 4305 6 Sandstone, light-gray, with some brown stain, medium- to fine-grained, slightly calcareous

Helderberg Group, 77½ feet

4305 4306 1 Limestone, brown, very sandy, cherty, dolomitic; contains small amount of glauconite

4306 4307 1 Sandstone, light-brown, fine, calcareous; contains a little glauconite

4307 4310 3 Chert, brown, very sandy, glauconitic, highly calcareous

4310 4320 10 Sandstone, light-brown, fine, cherty, highly calcareous; contains some dolomite and glauconite

4320 4323 3 Sandstone, light-gray, medium-grained, highly calcareous

4323 4329 6 Limestone, light-brown (light-gray when dry), very sandy; sand is similar to that in the sandstone above

4329 4343 19 Chert and very cherty limestone, light-gray to fairly dark-brown; some fossil fragments

4343 4365 17 Limestone, very dark brownish gray, shaly and cherty; contains only small amount of pure solid chert but large residue from acid treatment seems to be largely very impure chert containing much fine detrital material

4365 4367 5 Limestone, brown, very cherty

4367 4375 8 Limestone, gray to light-brown, very sandy and very cherty; contains a little glauconite and dolomite

4375 4378 3 Sandstone, light-gray, fine, cherty, highly calcareous, glauconitic

4378 4382½ 4½ Chert, light-gray, calcareous, sandy, glauconitic, contains some dolomite (there are only slight differences in the materials in the interval 4367 to 4382½')

4382½ Total depth