

Bull Creek Coal Land Company No. 15 Well

Peytona District, Boone County, W. Va.

By the Owens, Libbey-Owens Gas Department.

Located 1.08 mi. W. of 81°40' and 2.4 mi. S. of 38°15' -NW- Peytona Quadrangle; 2.5 mi.

N.E. of Dartmont.

Elevation, 942.0' L.

Permit 800-462

Drilling commenced June 4, 1940; completed Aug. 9, 1940.

Gas well; volume 959,000 cu. ft. per day; rock pressure 1160 lbs. in 35 hrs.

Fresh water at 100'; salt water at 365', 582' and 590'.

Coal at 136', 36"; 220', 36".

Section based on an incomplete set of samples from 1250 to 4558'.

Top of Greenbrier Limestone is not determined with any great certainty.

Top Bottom Thickness

Mauch Chunk Group, 35+ feet

1226			Top of "Little Lime" from driller's record
1250	1259	9	Limestone, dark-brown, with a very little white chert
1259	1261	2	Slate, dark (reported by driller; does not show in samples)
<u>Greenbrier Limestone, 192 feet</u>			
1261	1269	8	Limestone, dark-brown, with a very little white chert
1269	1301	32	Limestone, dark-brown; 5 to 10% of soft gray and green shale
1301	1318	17	Limestone, light-brown
1318	1322	4	Limestone, brown, very fine textured
1322	1344	22	Limestone, light-brown to nearly white, oolitic, moderately sandy
1344	1351	7	Limestone, light-brown, indistinctly oolitic; sample is oily
1351	1373	22	Limestone, very light-brown
1373	1388	15	Limestone, light-brown, sandy, oolitic
1388	1410	22	Limestone, nearly white, oolitic; contains many distinct oolites but a large part of it is very fine textured and does not show any definite structure; somewhat dolomitic, 1403-1410'
1410	1443	33	Limestone, light-brown and gray, oolitic and sandy
1443	1453	10	Limestone, very light brown, dolomitic; contains a very little sand

Top Bottom Thickness

Macorady Formation, 40 feet

1453	1463	10	Shale, bright red, silty
1463	1493	30	Sandstone, red, very fine; contains a few coarse grains (gas 1473, 30,000 cu. ft.)

Pocono Formation, 436 feet

1493	1526	33	Shale, gray, with small amount of interbedded siltstone
1526	1596	70	Shale, gray, silty, 50%; gray siltstone and very fine sandstone, 50%
1596	1621	25	Sandstone, gray, very fine, 70%; gray silty shale, 30%
1621	1698	77	Shale, gray, 80 to 90%; gray siltstone, 20 to 10%
1698	1910	212	No samples; reported as "Slate and shells"
1910	1924	14	Shale, dark-gray to brownish-black (Sunbury Shale)
1924	1929	5	Sandstone, nearly white, fine, pyritic, slightly calcareous (Berea Sandstone)

Devonian Shales, 2513 feet

1929	1934	5	Shale and siltstone, gray
1934	4442	2508	No samples (gas 2015, 10,000 cu. ft.)

Huntersville Chert, 92 feet

4442			Top of Huntersville Chert ("Corniferous") from driller's record
4449	4483	34	Limestone, brown, very cherty
4483	4500	17	Limestone, light-brown, cherty; contains some silt and very fine sand and a little glauconite; many small clear quartz crystals apparently formed in cavities
4500	4517	17	Limestone, light-brown, cherty and silty; contains a little glauconite
4517	4522	5	Sandstone, light-brown, fine, highly calcareous; some of larger grains are rounded
4522	4534	12	Limestone, brown, cherty and sandy; contains a little glauconite

Oriskany Sandstone, 14 feet

4534	4547	13	Sandstone, light-brown, fine, calcareous (gas, 4537-4544', 890,000 cu. ft.)
4547	4548	1	Sandstone, light-gray, fine, highly calcareous

Top Bottom Thickness

Helderberg Limestone, 10 feet

4548	4554	6	Limestone, light-gray and brown; contains small amount of sand but no chert; some fragments slickensided
4554	4555	1	Limestone, light-brown, with small amount of chert and sand
4555	4558	3	Chert, gray, calcareous
	4558		Total depth