

Cassingham Coal Land Company No. 31 (569) Well

Scott District, Boone County, W. Va.

By The Owens, Libbey-Owens Gas Dept., Charleston, W. Va.

Located 3.95 mi. S. of 38°10' and 3.0 mi. W. of 81°50' -C- Madison Quadrangle.

Elevation, 860.4' L.

Permit, Boo-453.

Drilling commenced July 23, 1940; completed Sept. 11, 1940.

Shot Sept. 5, 1940, depth 2051-2077'.

Gas well; volume 222,000 cu. ft.; rock pressure 280 lbs. in 24 hrs.

Fresh water 101 and 245'.

Salt water 695 and 765'.

Coal at 138-141'.

10" casing, 312'; 6-5/8", 1358'; 3" tubing, 2113'.

Section based on samples from 1321 to 2036', examined by J. H. C. Martens.

Top Bottom Thickness

Mauch Chunk Group, 32+ feet

1321	1331	10	Limestone, brown, 70%; gray shale, 30%
1331	1350	19	Limestone, dark-brown; contains a little bluish-gray chert and a few fossils
1350	1353	3	"Slate, dark, soft" (reported by driller; little shale in sample)

Greenbrier Limestone, 219 feet

1353	1363	10	Limestone, light-brown
1363	1378	15	Limestone, brown, darker and less uniform than last
1378	1418	40	Limestone, very light brown
1418	1466	48	Limestone, very light brown, oolitic
1466	1503	37	Limestone, very light brown, oolitic and sandy (show of gas, 1490')
1503	1519	16	Limestone, nearly white, dolomitic
1519	1558	39	Limestone, very light brown (gas, 1549', 16,000 cu. ft.)
1558	1565	7	Limestone, very light brown, dolomitic; about 10% of white anhydrite
1565	1572	7	Dolomite, brown; about 10% of white anhydrite

Top Bottom Thickness

Macorady Formation, 33 feet

1572	1589	17	Siltstone, red
1589	1605	16	Sandstone, red, very fine; a few coarse quartz grains

Pocono Formation, 472 feet

1605	1691	86	Siltstone and shale, gray, micaceous; also considerable amount of very fine light-gray sandstone
1691	1707	16	Sandstone, light-gray, very fine, 50%; gray siltstone and silty shale, 50%
1707	1754	47	Sandstone, light-gray, very fine; also a little siltstone and shale
1754	1956	202	Shale, gray
1956	1966	10	Shale and siltstone, gray, 70%; light-gray, very fine sandstone, 30%
1966	1976	10	Shale and siltstone, gray, 50%; light-gray very fine sandstone, 50%
1976	1988	12	No sample
1988	2013	25	Shale and siltstone, gray, 50%; light-gray, very fine sandstone, 50%
2013	2037	23	Shale and siltstone, gray
2037	2051	14	"Slate, brown, soft" (Sabbury Shale)
2051	2077	26	Sandstone, white, hard (Berea Sandstone; gas, 2056-2061', 140,000 cu. ft.)

Devonian Shales, 34+ feet

2077	2084	7	"Slate, dark, soft"
2084	2111	27	"Slate and shells, light, hard and soft"
	2111		Total depth