

Yawkey and Freeman Coal Company No. 81 Well

Chapmansville District, Logan County, W. Va.

By South Penn Natural Gas Company, Parkersburg, W. Va.

Located 2.63 mi. S. of 38° 00' and 3.43 mi. W. of 81° 55' - NW -
Logan Quadrangle.

Elevation, 775.50' L.

Permit Log-97.

Completed March, 1944.

Gas well in Big Lime; 1,250,000 cu. ft. before acidizing and
2,370,000 cu. ft. after acidizing.

Rock pressure, 440 lbs. in 24 hrs.

Section based on samples from 1061 to 1223', examined by J. H. C. Martens.

Greenbrier Limestone, 162+ feet

Top.	Bottom.	Thick- ness.	Description
1061	1067	6	Limestone, very light brown, 80%; gray shale, 20%
1067	1094	27	Limestone, brown to light-brown, with small amount of light-gray chert
1094	1120	26	Limestone, light-brown to light-gray. (gas 1106- 1108', 68,000 cu. ft.)
1120	1145	23	Limestone, very light-brown, with micro-fossils and some rather indistinct oolites. (gas at 1141- 1145', increased to 440,000 cu. ft.)
1145	1154	11	Limestone, nearly white, partly dolomitic
1154	1167	13	Limestone, light-brown
1167	1179	12	Limestone, brown, sandy and oolitic (Pay zone?)
1179	1182	3	Limestone, white to light-brown
1182	1197	15	Limestone, very light-brown and light-gray, partly oolitic and partly dolomitic
1197	1218	21	Limestone, light-brown with small amount of red, partly oolitic
1218	1223	5	Limestone, white to brownish, crystalline (1218-1221', gas increased to 1,205,000 cu. ft.)
1223			Total depth.