

The Putnam Company No. 3 Well

Ripley District, Jackson County, W. Va.

By Columbian Carbon Company, Box 1240, Charleston, W. Va.

Located 3.57 mi. W. of 81°35' and 5.07 mi. S. of 39°40' -C- Keema Quadrangle;

0.8 mi. S. of Goldtown.

Elevation, 896.5' L.

Permit, Jac-58.

Drilling commenced Dec. 6, 1939; completed, Feb. 15, 1940.

Shot Feb. 17, 1940, at 5174-5260' (SLM)

Volume 6,039,000 cu. ft. per day.

Rock pressure, 1790 lbs.

Oil, small show, 1500'.

Fresh water at 850', $\frac{1}{2}$ - 15" bailer per hour; 1000', 1 - 10" bailer per hour.

Salt water, 1545', 1 - 10" bailer per hour; 1600', hole full.

14" casing, 29'1"; 10 $\frac{1}{2}$ ", 920' 1"(pulled); 8-5/8", 2133'7"; 7", 5126'5";

2-5/8" tubing, 5238'4". No packer.

Top	Bottom	Thickness	
			<u>Greenbrier Limestone, 112 feet</u>
1909	1944	35	Limestone, light-brown (SLM)
1944	2021	77	Limestone, light-brown to very light-gray, sandy; somewhat dolomitic from 1986 to 2021'; mostly oolitic from 1965 to 2021' but oolites are not especially abundant or distinct in most of this interval
			<u>Pocahontas Formation, 463 feet, 300 feet</u>
2021	2055	34	Sandstone, nearly white, coarse, poorly sorted
2055	2067	12	Sandstone; nearly white, fine, slightly calcareous
2067	2085	18	Sandstone, light-brown, medium-grained, calcareous
2085	2096	11	Sandstone, light-brown, calcareous, 70%; gray shale, 30%
2096	2101	5	Shale, gray, silty
2101	2115	14	Sandstone, light-gray, fine
2115	2133	23	Shale, dark-gray, silty, micaceous

Top	Bottom	Thickness	
2153	2274	126	Siltstone, light-gray; with up to about 30% of darker gray shale; some fragments are coarse enough to be classed as very fine sandstone rather than siltstone
2274	2438	164	Shale, gray, interstratified with much smaller amounts of gray shaly siltstone
2438	2471	33	Siltstone, light-brown, micaceous, 80%; gray shale 20%
2471	2494	23	Shale, dark-gray to black (Sunbury Shale; driller's brown shale)
2494	2504	10	Sandstone, light-gray, fine, pyritic; strong concentration of pyrite at top (Berea Sandstone)
<u>Devonian Shales, 2567 feet</u>			
2504	2755	251	Shale, gray; interstratified with considerable amounts of gray to grayish-green siltstone; pyrite and mica are present throughout; there are a few scattered fragments of calcareous material
2755	2873	123	Siltstone, gray, shaly, micaceous, in part slightly calcareous; some interbedded gray shale
2873	3412	534	Shale, gray, silty, micaceous; all samples contain some gray to grayish-green siltstone but there is generally much less of it than of shale; small amount of fine textured gray limestone in three samples from 3368 to 3412
3412	3711	299	Shale, gray, silty; contains small spherical pyrite concretions and rather scarce flattened dark-brown spore cases which are mostly in the darker fragments and were noted more in the upper than in the lower part of the interval; average color is probably a little darker than for the interval above but there is no distinct color change; some gray micaceous and slightly calcareous siltstone
3711	3787	46	Shale, very dark gray (driller's "brown shale"); some light-gray, slightly calcareous siltstone
3787	4006	249	Shale, gray; samples are mostly a mixture of various shades of gray, with the medium- to light-gray much in excess; up to about 30% of light gray, micaceous

Top	Bottom	Thickness	
			and slightly calcareous siltstone
4006	4060	44	Shale, gray, mostly very dark; contains some spore cases
4060	4181	121	Shale, gray, much lighter than last; with small amounts of siltstone
4181	4230	49	Shale, very dark gray (driller's "brown shale")
4230	4324	94	Shale, very dark gray to somewhat brownish, 60% medium-gray shale, 40% small amount of calcareous material
4324	4707	383	Shale, gray, mostly somewhat greenish, slightly calcareous
4707	4816	109	Shale, dark-gray, mostly noncalcareous; there is considerable variation in color of individual fragments, but some are nearly black and average color is much darker than for the interval above
4816	4900	84	Shale, very dark-gray, pyritic
4900	5010	110	Shale, dark-gray; contains some nearly black fragments, but average color is considerably lighter than for the interval above
5010	5071	61	Shale, black, partly calcareous (SIM at top of Huntersville chert corrected depth from 5070' to 5071')
			<u>Huntersville Chert, 100 feet</u>
5071	5113	42	Limestone, brown, very cherty; small amount of biotite-rich siltstone at top
5113	5180	67	Limestone, brown, very cherty; mostly contains some silt or very fine sand; considerable glauconite from 5151 to 5167', 5169 to 5171' and in thin streak at base; slight traces of glauconite in several other samples; small amounts of dolomite; depth at bottom of chert corrected from 5180 to 5171' by SIM
			<u>Oriskany Sandstone, 85 feet</u>
5171	5176	4	Sandstone, light-gray, medium-grained, highly calcareous
5176	5212	37	Sandstone, light-gray with some rust stain, medium-grained, slightly calcareous (gas pays, 5176 to 5186' and 5200 to 5204')

Top	Bottom	Thickness	
5212	5216	4	Sandstone, light-gray, medium-grained, calcareous
5226	5236	10	Limestone, dark brownish gray, very sandy; much of it could just as well be called calcareous sandstone (gas pay 5231 to 5236'; small show of oil at 5236')
5236	5245	9	Sandstone, gray, medium-grained, highly calcareous; some of larger grains are well rounded
5245	5256	11	Sandstone, light-gray, fine, calcareous (gas, 5246 to 5249' and 5257 to 5259')
<u>Helderberg Limestone, 8+ feet</u>			
5256	5264	8	Limestone, dark-gray, cherty and sandy
	5264		Total depth (SLM)