

J. C. Gillespie No. 1 (B-2) Well

Salt Lick District, Braxton County, W. Va.

By West Virginia Gas Corporation, Charleston, West Virginia.

Located 2.56 mi. S. of 38°30' and 1.62 mi. W. of 80°30' - SE - Burnsville quadrangle.

Elevation, 1356' (Stadia)

Permit Brax-193

The base of the Pottsville in this well is considered as being marked by the very coarse sandstone at 1409 to 1412 feet, but the first rock of a type definitely characteristic of the Mauch Chunk was encountered at 1444 feet, leaving some uncertainty as to the exact position of the formation boundary. The sandstone from 1392 to 1900 feet, here tentatively designated as Berea, corresponds to the squaw sand of driller's records for many wells in this district.

Top Bottom Thickness

Pennsylvanian, 419+feet

Top	Bottom	Thickness	Description
999	1031	32	Sandstone, white, medium-grained
1031	1039	8	Sandstone, light-gray, fine - to medium-grained, 70%; gray, silty, siltstone, 30%
1039	1069	30	Sandstone, white, fine - to medium-grained; contains a little white clayey material, a few flakes of mica and a few green specks
1069	1078	9	Shale, dark-gray, silty, 60%; white, medium-grained sandstone, 40%
1078	1097	19	Shale, dark-gray to black, with some coal
1097	1122	25	Siltstone, dark-gray, silty
1122	1134	12	Sandstone, white, coarse, nearly all quartz
1134	1140	6	Shale, gray, silty
1140	1156	16	Sandstone, white, medium-grained
1156	1162	6	Sandstone, white with some yellow stain, coarse
1162	1182	20	Siltstone, and silty shale, gray; also some very fine light-gray sandstone
1182	1193	11	Shale, very dark gray, silty
1193	1213	20	Siltstone, dark-gray, sandy, micaceous
1213	1223	10	Shale, black, silty, micaceous
1223	1250	27	Shale, gray
1250	1278	28	Sandstone, nearly white, fine

Top	Bottom	Thickness	
1273	1295	22 ¹	Sandstone, white, coarse, nearly all quartz; crystal faces on many grains
1295	1302	17	Siltstone and silty shale, gray
1302	1309	7	Siltstone, brownish-gray, shaly
1309	1318	9	Shale, gray to black
1318	1364	46	Sandstone, white, fine - to medium-grained
1364	1391	27	Sandstone, white, coarse
1391	1409	18	Sandstone, white with some rust stain, medium-grained
1409	1418	9	Sandstone, white, very coarse
<u>Lauch Chunk Group, 231 feet</u>			
1418	1429	11	Sandstone, gray, very fine, silty
1429	1444	15	Sandstone, light-gray, fine
1444	1463	19	Siltstone, gray to greenish, calcareous; also a little green shale
1463	1472	9	Shale, red, calcareous
1472	1501	29	Siltstone and shale, gray to greenish, slightly calcareous
1501	1510	9	Sandstone, light grayish green, very fine
1510	1531	21	Shale, red, calcareous
1531	1640	9	Sandstone, white to light-green, very fine, 60%; red and green shale, 20%; light-gray, highly dolomitic limestone, 20%
1640	1550	10	Shale, red
1550	1570	20	Shale, gray, soft
1570	1588	18	Limestone, brown, fossiliferous
1588	1598	8	Limestone, brown to white, fossiliferous, 70%; gray shale, 20%; white to light-green very fine sandstone
1598	1604	8	Sandstone, white, highly calcareous, very fine; almost a siltstone
1604	1648	44	Sandstone, white, very fine, slightly calcareous; appears to be tightly cemented and contains high proportion of quartz
<u>Greenbrier Limestone, 200 feet</u>			
1648	1652	4	Limestone, dark-brown, with many indistinct colites or small round objects resembling colites
1652	1657	5	Limestone, very light brown, oolitic?

Top	Bottom	Thickness	
1657	1703	46	Limestone, nearly white to light-brown; a few green fragments 1670-1675'
1703	1711	8	Limestone, light-brown, oolitic; a few green shaly fragments
1711	1718	7	Limestone, nearly white, with a few oolites
1718	1726	8	Limestone, very light brown
1726	1733	7	Limestone, very light brown, dolomitic
1733	1750	17	Limestone, very light brown, very sandy
1750	1760	10	Limestone, nearly white
1760	1770	10	Limestone, very light brown, very sandy; a little green siltstone, 1765-1770'
1770	1775	6	Limestone, very light brown, with a little sand
1775	1798	13	Limestone, very light brown, sandy
1798	1812	24	Limestone, light-brown to nearly white, highly dolomitic
1812	1817	5	Limestone, very light brown; contains a little sand and some small oolites
1817	1841	24	Limestone, very light brown, slightly to moderately sandy
1841	1843	2	Limestone, nearly white, sandy; highly dolomitic; pore spaces are plainly visible (gas at 1843', 16/10" water through 1" opening)
1843	1843	5	No sample
<u>Cocono Formation, 52 feet</u>			
1848	1867	19	Siltstone, gray, fine, shaly
1867	1892	25	Shale, very dark gray, silty
1892	1900	8	Sandstone, light-gray to white, very fine; a few fragments are highly pyritic (Berea?)
<u>Upper Devonian, 506+ feet</u>			
1900	1910	10	Shale, gray silty
1910	1951	41	Siltstone and shale, gray
1951	1984	33	Siltstone, gray and green, 70%; gray shale, 20%; very fine white sandstone, 10%
1984	1992	6	Sandstone, light-gray, 60%; gray shale and siltstone, 40%; the sandstone consists of very coarse white sand grains and pebbles surrounded by fine material

Top	Bottom	Thickness	
1992	2045	53	Shale, gray; also a little siltstone, and very fine sandstone
2045	2064	19	Siltstone, light-green, 60%; gray shale, 40%
2064	2076	12	Sandstone, white to light-green very fine, 60%; gray shale, 40%
2076	2084	8	Sandstone, white, fine, 70%; gray shale, 30%
2084	2092	8	Shale and siltstone, gray
2092	2101	9	Shale and siltstone, gray, 85%; red silty shale, 15%
2101	2114	13	Sandstone, white, coarse
2114	2126	12	Shale and siltstone, gray
2126	2133	7	Shale and siltstone, gray to grayish-green, 90%; red silty shale, 10%
2133	2138	5	Shale, gray, 70%; fine white sandstone, 30%
2138	2142	4	Sandstone, white, medium-grained
2142	2146	4	Sandstone, white, medium-grained, 90%; green shale, 10%
2146	2151	5	Sandstone, white, fine, 50%; red shale, 30%; green sandy shale, 20%
2151	2164	13	Sandstone, white, fine - to medium-grained
2164	2172	8	Sandstone, white, coarse
2172	2176	4	Siltstone and shale, gray
2176	2184	8	Sandstone, white to light-green, fine
2184	2192	8	Siltstone and shale, red
2192	2199	7	Siltstone, red and green, sandy, 70%; gray shale, 30%
2199	2206	7	Sandstone, light-green and white, very fine
2206	2217	11	Sandstone, nearly white, fine
2217	2240	23	Shale, gray
2240	2247	7	Siltstone, grayish-green, 60%; gray silty shale, 30%; very coarse white sand and quartz pebbles, 10%
2247	2260	13	Shale and siltstone, gray to grayish-green
2260	2270	10	Siltstone, light-green, sandy, 70%; gray shale, 20%; red siltstone, 10%
2270	2276	6	Sandstone, white, green, and red, very fine, silty
2276	2283	7	Sandstone, light-green to white; has some very coarse grains embedded in much finer material

Top	Bottom	Thickness	
2283	2283	5	Sandstone, light-green, very fine
2288	2294	6	Shale and siltstone, gray
2294	2300	6	Shale and siltstone, gray, 80%; red silty shale, 20%
2300	2310	10	No sample
2318	2366	48	Shale and siltstone, gray to grayish-green
2366	2395	29	Sandstone, very light grayish yellow; mostly fine to very fine but contains a few coarse sand grains
2395	2405	10	Shale, gray
	2405		Total depth shown by samples