

SEP 17 1954

MAGGIE CAIN No. 1 WELL.

By George Paul Roberts, Elizabeth, W. Va.  
 Spring Creek District, Wirt County, W. Va.  
 Located 4.1 mi. S. of 39° 00' Lat. and 4.05 mi. W. of 81° 15' Long.  
 Spencer Quadrangle. *NE*  
 Permit Wirt-309.  
 Elevation 721' L.  
 Drilling commenced Sept. 10, 1953; *Completed Oct. 23, 1953*  
 Fresh Water 45'.  
 Salt Water 1400' and hole full at 1500'.  
 Gas smell at 2965'.  
 Dry hole.  
 Casing 10", 115; 8-1/4", 830; 6-5/8", 1546'.  
 Section based on samples from 1485 to 2176; examined by Russell R. Flowers.

Top Bottom Thickness

POTTSVILLE FORMATION 54, plus, FEET.

1485	1528	43	Sandstone, very light gray, fine grained, sub-rounded with many rounded medium grains, fine to medium grained and subrounded to rounded from 1498-1505, quartzose, most of the sand has secondary crystal facets
1528	1539	11	Sandstone, white to very light gray, fine to medium grained, some coarse to very coarse grains, subrounded to rounded, the sand shows secondary crystal facets; some dark gray fireclay in the lower part with a few nodules of dark yellowish brown dolomite--- <del>dolomite</del> Greenbrier limestone?

GREEN BRIER LIMESTONE, 126 FEET.

1539	1546	7	Dolomite, pale yellowish brown to brownish gray, somewhat calcareous
1546	1554	8	Limestone, pale yellowish brown, small amount is dolomitic
1554	1566	12	Limestone, pale yellowish brown to light olive gray, somewhat dolomitic
1566	1584	18	Limestone, light olive gray to olive gray; dolomitic; small amount of medium dark gray to olive gray, calcareous shale
1584	1595	11	Limestone, light olive gray to pale yellowish brown, oolitic in part, dolomitic in the lower part
<del>1595</del>	1600	5	Limestone, pale yellowish brown, very sandy (fine grained, some medium grains, rounded)
1600	1603	3	Sandstone, yellowish gray to light olive gray, very fine grained, subrounded to rounded, some fine to medium (rounded) grains, very highly calcareous, dolomitic
1603	1606	3	Limestone, pale to dark yellowish brown, some brownish gray to brownish black, sandy (very fine to fine grained, rounded); a very small amount of dark greenish gray shale with black streaks
1606	1619	13	Limestone, with some very sandy dolomite at the top to dolomite (very sandy, very fine to fine grained, some medium grains, rounded) with some limestone at the bottom, pale yellowish brown to light olive gray

1619	1628	7	Limestone, pale to, dark yel lowish brown, highly oolitic in part, somewhat fossiliferous (formanifera ?), somewhat silty and somewhat sandy (very fine grained)
1628	1631	5	Limestone, light olive gray
1631	1641	10	Dolomite, yellowish gray to light olive gray, very highly calcareous
1641	1651	10	Limestone, olive gray, somewhat argillaceous with a little medium dark gray, calcareous shale, dolomitic in part
1651	1656	5	Limestone, brownish gray to brownish black, dolomitic, argillaceous in part
1656	1665	9	Dolomite, pale yellowish brown to light olive gray, highly calcareous, moderately sandy (medium to coarse grained, well rounded); some brownish black, oolitic, dolomitic limestone at the bottom, sandy in part
<u>POCONO, 413 FEET.</u>			
1665	1686	21	<i>Siltstone to Sandstone (very fine grained), medium Dolomite, pale yellowish brown to light olive gray, highly calcareous, moderately sandy (medium to coarse grained, well rounded); some brownish black, oolitic, dolomitic limestone at the bottom, sandy in part. The latter part of the section contains medium to very coarse sand grains at the bottom.</i> Dolomite, pale yellowish brown to light olive gray, highly calcareous, moderately sandy (medium to coarse grained, well rounded); some brownish black, oolitic, dolomitic limestone at the bottom, sandy in part.
1686	1699	13	Shale, dark gray, small amount of dusky yellowish brown (sideritic); small amount of medium dark to dark gray siltstone
1699	1720	21	Shale, dark gray, very silty and sandy in part; 1711 to 1716, a very large amount of sandstone (very fine) to siltstone, light to medium gray, argillaceous, somewhat micaceous, some in the upper part; very small amount of shaly siderite
1720	1739	19	Shale, dark gray, very silty in part, with some medium dark gray siltstone
1739	1744	5	Siltstone and some very fine grained sandstone, medium dark gray, some medium gray; large amount of dark gray, silty shale
1744	1754	10	Siltstone to sandstone (very fine grained), olive gray to brownish gray, argillaceous; large amount off dark gray shale; some medium dark gray siltstone; small amount of dark yellowish brown siderite
1754	1784	30	Siltstone, medium to medium dark gray, some olive gray to brownish gray; some dark gray shale; small amount of olive dusky, yellowish brown, shaly siderite
1784	1814	30	Shale, dark gray; some medium dark to dark gray siltstone in the lower part; small amount of shaly siderite
1814	1838	24	Shale, dark gray; some sandstone (very fine) to siltstone, medium to medium dark gray; a large amount of medium dark to dark gray, shaly siltstone in the lower part
1838	1966	128	Shale to siltstone, medium dark to dark gray; small amount of dusky yellowish brown, shaly siderite

1966	1997	31	Shale, dark gray, silty; some medium dark gray to dark gray siltstone, shaly; some olive gray to brownish gray
1997	2054	57	Shale, dark gray; some medium dark to dark gray <del>silt</del> siltstone; some olive gray to brownish gray siltstone at 2041 - 47
2054	2063	9	Shale, dark gray, some dark gray to grayish black
2063	2073	10	Shale, grayish black, somewhat carbonaceous, some dark gray (Sunbury Shale)
2073	2078	5	Siltstone, light gray, highly pyritic in part, contains some very fine sand grains and rare medium to coarse (rounded) quartz grains (Berea); some medium gray siltstone and some dark gray shale
2078	2094	16	Siltstone, light to medium gray, micaceous; some medium dark gray, argillaceous siltstone to dark gray shale
<u>DEVONIAN SHALES 82<sup>+</sup> Feet.</u>			
2094	2130	36	Siltstone, medium light gray to medium gray, some medium dark gray; some medium dark to dark gray shale
2130	2146	16	Siltstone, medium to medium dark gray, moderate amount of brownish gray to olive gray, some light gray in the lower part
2146	2166	20	Siltstone, medium to medium dark gray, some brownish gray to olive gray in the lower part; some medium dark to dark gray shale
2166	2176	10	Siltstone, brownish gray to olive gray, medium to medium dark gray; some medium dark to dark gray shale

3290

Total depth