

W. W. McBride No. 1 Well

By E. M. Anderson, 311 Market Street, Warren, Pa.

Gore District - Hampshire County, W. Va.

Located 1.19 mi. S. of 39°20' and 2.92 mi. W. of 78°35'

Elevation 1345' L.

Completed Drilling: September 11, 1953

Permit, Hampshire - 3.

Hanging Rock Quadrangle - S. C.

Examined by R. R. Flowers

Top	Bottom	Thickness	
533	540	7	Siltstone, medium dark gray to olive gray and brownish gray in the upper part to a medium gray to olive gray and brownish gray to dusky brown in the lower part; a very large amount of medium dark to dark gray siltstone and shale in the upper part.
540	561	21	Shale (silty) at the top to shale and siltstone (with calcified fossil fragments in the lower part) medium dark to dark gray.
561	575	14	Siltstone, olive gray to brownish gray and medium dark gray to dark greenish gray, shaly, mostly dark gray to dark greenish gray with calcified fossil fragments in the lower part, slightly calcareous.
575	582	7	Shale and siltstone, medium dark to dark gray, some olive gray to brownish gray.
582	614	32	Siltstone, medium dark gray, coarse, small amount is calcareous; some dark gray shale.
614	618	4	Siltstone, olive gray to medium dark gray, coarse, shaly.
618	625	7	Siltstone, medium dark gray, coarse, shaly.
625	659	34	Siltstone and shale, medium to dark gray; small amount of medium gray to olive gray and brownish gray siltstone at 647-653.
659	670	11	Siltstone, medium dark to dark gray; some dark gray shale, calcareous in the upper part (calcified fossil fragments).
670	681	11	Siltstone and shale, medium dark to dark gray.
681	694	13	Siltstone and shale, grayish black to black and medium dark to dark gray, mostly grayish black to black in the upper part and mostly medium dark to dark gray in the lower part; the dark siltstone and shale is dolomitic in part; some clear, glassy quartz.
694	734	40	Siltstone and silty shale, medium dark to dark gray, some grayish black in the upper part, slightly dolomitic at the bottom, small amount of clear, glassy quartz; some calcified fossil fragments at 704-709.
734	746	12	Shale and siltstone, medium dark to dark gray.
746	795	49	Siltstone and some silty shale, medium dark to dark gray.

795	815	20	Siltstone, medium dark gray, shaly
815	847	32	Siltstone and some shale, medium dark to dark gray.
847	858	11	Siltstone, medium dark gray, shaly.
858	900	42	Shale and siltstone, medium dark to dark gray, mostly siltstone at 874-880, 894-900.
900	921	21	No sample.
921	967	46	Siltstone and shale, medium dark to dark gray, mostly siltstone at 929-932; a large amount of grayish black, shaly, dolomitic siltstone at 957-962.
967	981	14	Siltstone, medium dark gray.
981	988	7	Siltstone, medium dark gray, some grayish black (dolomitic).
988	994	6	Siltstone to sandstone (very fine), medium to medium dark gray, slightly dolomitic.
994	1006	12	Siltstone, medium dark to dark gray, some grayish black at the top.
1006	1045	39	Siltstone, dark gray, shaly.
1045	1067	22	Shale and siltstone, dark gray.
1067	1078	11	Siltstone, medium dark gray, some dark gray, dolomitic at the top, dolomitic in part in the middle and lower part.
1078	1098	20	Siltstone, medium dark gray to dark gray, shaly, a very small amount is dolomitic; some grayish black to black shale at the bottom.
1098	1104	6	Shale, grayish black to black, silty, dolomitic in the lower part (black due to FE)?; some medium dark to dark gray siltstone.
1104	1144	40	Siltstone, medium dark to dark gray shaly; some grayish black shale in the upper part and at 1130-34; mostly medium dark gray at 1119-1130.
1144	1160	16	Siltstone, medium to medium dark gray, calcareous in part; shaly in the lower part; some grayish black silty shale in the upper part.
1160	1173	13	Siltstone, dark gray to grayish black, medium gray to medium dark gray, calcareous in the lower part, shaly.
1173	1192	19	Siltstone and some shale, medium dark to dark gray.
1192	1200	8	Limestone, brownish black to black, dolomitic in part, shaly; Shale, medium dark gray to dark gray.
1200	1220	20	Shale, medium dark gray to dark gray, silty, very small amount is calcareous and dolomitic.
1220	1233	13	Siltstone, medium dark gray to grayish black, shaly.

1233	1287	54	Siltstone, medium dark gray to dark gray, shaly, very slightly dolomitic.
1287	1330	43	Siltstone, dark gray, small amount of grayish black in the lower part.
1330	1348	18	Siltstone, grayish black to black, very shaly, dolomitic in part; a large amount of medium to medium dark gray, calcareous, highly dolomitic siltstone in the middle part and some in the lower part.
1348	1430	82	Shale, dark gray, some grayish black, highly calcareous shale at 1376-88 and 1393-1414.
1430	1450	20	Siltstone, dark gray, very shaly.
1450	1469	19	Siltstone, dark gray, very shaly.
1469	1532	73	Siltstone and shale, medium dark to dark gray.
1532	1538	6	Siltstone, medium dark gray, dolomitic.
1538	1555	17	Siltstone and shale, medium dark to dark gray.
1555	1575	20	Shale, dark gray, silty.
1575	1590	15	Siltstone, medium dark to dark gray, shaly.
1590	1621	31	Siltstone and shale, medium dark to dark gray, mostly medium gray, siltstone at the top.
1621	1649	28	Shale, medium dark to dark gray.
1649	1659	10	Siltstone, medium dark gray, some dark gray, contains highly calcareous fossil fragments (occasional crinoid fragments), dolomitic in part.
1659	1664	5	Siltstone, brownish gray to dusky brown; shale medium dark gray to dark greenish gray, silty.
1664	1681	17	Siltstone, medium dark gray, some medium dark gray to dark greenish gray, some brownish gray to dusky brown siltstone at the bottom.
1681	1712	31	Siltstone and shale, medium dark to dark gray.
1712	1751	39	Shale and siltstone, brownish to dark greenish gray to medium dark gray.
1751	1787	36	Siltstone, medium dark gray, some medium dark gray to dark greenish gray, small amount of dolomite and Calc; some medium dark to dark gray shale.
1787	1802	15	Siltstone and shale, medium dark to dark gray, some brownish gray to dusky brown; some dark greenish gray to medium dark gray.
1802	1950	148	Siltstone and shale, medium dark to dark gray.
1950	2002	52	Shale, dark gray and medium dark to dark gray.

2002	2095	93	Shale, dark gray; moderate amount of siltstone, medium dark to dark gray.
2095	2140	45	Shale and siltstone, medium dark to dark gray, some grayish black.
2140	2167	27	Shale and siltstone, medium dark to dark gray, some grayish black to black (carbonaceous) streaks in the lower part with a little dolomite.
2167	2211	44	Shale, dark gray.
2211	2252	41	Shale, dark gray to grayish black, moderate amount of siltstone, medium dark gray.
2252	2336	84	Shale and some siltstone, dark gray; some medium dark gray siltstone.
2336	2442	106	Shale, dark gray; siltstone, medium dark to dark gray.
2442	2505	63	Shale and siltstone, medium dark to dark gray; some grayish black shale.
2505	2957	452	Shale and siltstone, medium dark to dark gray.
2957	3010	53	Siltstone, medium dark to dark gray; some shale, dark gray.
3010	3080	70	Siltstone and some shale, medium dark gray to grayish black.
3080	3250	170	Siltstone and shale, medium dark to dark gray.
3250	3421	171	No sample.
3421	3451	30	Siltstone, dark gray.
3451	3472	21	Siltstone, medium dark gray, to dark gray.
3472	4613	1141	Shale, dark gray, silty in the upper part, contains fossil fragments, somewhat pyritic in part, much of the shale is silty to a fine siltstone, contains small amounts of dolomite and quartz.
4613	4625	12	Siltstone, medium dark gray to dark gray, somewhat dolomitic.
4625	4668	43	Shale, dark gray to grayish black, silty.
4668	4870	202	Shale, dark gray.
4870	4972	102	Shale, dark gray to grayish black.
4972	5088	116	Shale, grayish black to black, calcareous in part, pyritic in part.
5088	5133	45	Shale, dark gray, calcareous.
5133	5323	190	Shale, grayish black to black, calcareous, pyritic in part.
5323	5475	151	Not Described.

5475	5479	5	Trace of metabentonite; shale, grayish black to black.
5479	5488	9	Shale, dark gray, calcareous.
5488	5583	95	Not Described.
5583			DLM (^{Depth} corrected to 5605 - Haliburton Line)
5605			ORISKANY SANDSTONE, ?? feet.
5605	5611	6	Sandstone, light to medium light gray, fine to medium grained, subrounded to rounded, calcareous, some dark shaly material, some secondary quartz crystal growth, quartzitic at top.
5611	5614	3	Sandstone, medium light gray, some medium to dark gray (shaly), very fine grained, highly calcareous, some fine grains.
5614	5618	4	Sandstone, light to medium gray, fine to coarse grained, some very coarse grains to granules, highly calcareous, contains a little dark (shaly) material.
5618	5620	2	No Sample.
5620	5621.5	1.5	Sandstone, light gray, very fine to fine grained, some medium grains, highly calcareous.
5621.5	5628	6.5	Sandstone, light gray, very fine to medium grained, some coarse grains, calcareous, subrounded to rounded, some secondary crystal facets.
5628	5630	2	Sandstone, light gray, very fine grained to fine grained, calcareous at the top, somewhat calcareous in the lower part.
5630	5636	6	Sandstone, very light to light gray, moderately calcareous, very fine to medium grained, subrounded, quartzitic in part, contains secondary crystal facets.
5636	5648	12	Sandstone, very light to light gray, very fine to fine grained, somewhat to moderately calcareous, quartzitic in part.
5648	5652	4	Sandstone, light gray (top) to very light gray (bottom), very fine to medium grained, mostly fine to medium grained and quartzitic in lower part, calcareous and slightly argillaceous at the top, some coarse grains.
5652	5657	5	Sandstone, light gray, fine grained at top, very fine to fine grained at the bottom, somewhat calcareous, subrounded, quartzitic in part.
5657	5663	6	Sandstone, very light gray, light gray at the top, fine grained, some medium to coarse grains at the bottom, very fine to fine grained at the top, moderately calcareous, quartzitic in part (lower), slightly shaly.

5663	5669	6	Sandstone, light gray, very fine grained, highly calcareous, shaly and dark gray at the top.
5669	5723	54	Sandstone, light to medium gray, with some grayish black (shale) streaks, very fine grained, very highly calcareous, dark gray (shaly) at 5690-92, many samples contain fine to medium grains.
5723	5740	17	Sandstone, very light gray, fine to medium grained, rounded to subrounded, moderately calcareous, subangular to subrounded in the lower part.
5740	5749	9	Sandstone, light gray, very fine to medium grained, subrounded to subangular, highly calcareous.
5749	5855	106	Limestone (very sandy, very fine), sandstone (very highly calcareous), medium to dark gray, shaly, some grayish black (very shaly), very fine grained to coarse siltstone, top 3 feet is medium gray.
5855	5883	28	Sandstone (very highly calcareous) to limestone (very sandy, silty), dark gray to grayish black, shaly, some medium gray, very fine grained to coarse silt; small amount of CH at the bottom.
5883	5894	11	Shale (very highly calcareous) and some limestone (very shaly), grayish black, cherty.
5894	5933	39	Shale, grayish black to black, highly calcareous, moderately cherty, contains fine disseminated pyrite.
5933	5942	11	Shale, grayish black, very highly calcareous, somewhat cherty.

6030' Total Depth (No samples below 5942')

Well plugged back to 5700'

Well acidized in two treatments
 First treatment, 1000 gallons
 Second treatment, 3000 gallons

Volume increased from 34,000 to 89,903 cu. ft. per day
 Gas: 5634 to 5639'
 Rock Pressure 2100 lbs.