

~WELL INFORMATION

WELL NAME: BONNETTE MSH 201 WB#1
 FILE CREATED: 3/1/2016 15:20
 START DEPTH: 0
 STOP DEPTH: 12874
 PLAY: West Virginia
 COUNTY: Marshall Co. WV
 SHL LATITUDE: 39.721464
 SHL LONGITUDE: -80.711774
 SHL NORTHING: 14425439.86
 SHL EASTING: 1721461.63
 DATUM ELEVATION: 1453.6
 GROUND ELEVATION: 1427.6
 MAP DATUM: NAD83 West Virginia - HARN
 MAP SYSTEM: Universal Transverse Mercator (US Survey Feet)
 MAP ZONE: Zone 17N (84 W to 78 W)
 MAG DEC: -8.64
 DEC DATE: 7/21/2015
 MAG MODEL: BGGM2015
 MAG DIP: 67.08
 MAG STRENGTH: 52361.48
 NORTH REF: Grid
 GRID CONV: 0.18
 TOTAL CORR: -8.82
 VS REF: Slot
 VS AZI: 289.89

~SURVEY DATA

MD	INC	AZI	TVD	NS	EW	VSEC	DLS	TOOL
0		0	0	0	0	0	0	UNDEFINED
231		0.8	93.19	230.99	-0.09	1.61	-1.54	0.35 EMS (1)
323		0.7	96.59	322.98	-0.19	2.81	-2.71	0.12 EMS (1)
400		0.4	115.49	399.98	-0.36	3.52	-3.43	0.45 EMS (1)
488		0.3	88.19	487.98	-0.48	4.03	-3.95	0.22 EMS (1)
579		0.2	192.59	578.98	-0.63	4.23	-4.19	0.44 EMS (1)
662		0.2	149.49	661.98	-0.9	4.27	-4.32	0.18 EMS (1)
743		0.1	23.81	742.98	-0.96	4.37	-4.44	0.33 MWD (2)
830		0.76	237.48	829.98	-1.2	3.92	-4.09	0.97 MWD (2)
917		2.6	229.67	916.93	-2.78	1.93	-2.76	2.13 MWD (2)
960		3.45	226.63	959.87	-4.3	0.24	-1.69	2.01 MWD (2)
1003		4.02	226.67	1002.78	-6.23	-1.79	-0.43	1.33 MWD (2)
1091		6.12	225.01	1090.43	-11.66	-7.36	2.95	2.39 MWD (2)
1178		6.89	224.79	1176.87	-18.64	-14.31	7.12	0.89 MWD (2)
1221		6.14	226.07	1219.6	-22.07	-17.79	9.22	1.78 MWD (2)
1264		5.63	225	1262.37	-25.15	-20.93	11.13	1.21 MWD (2)
1351		5.83	224.28	1348.93	-31.34	-27.04	14.76	0.24 MWD (2)
1437		5.79	222.62	1434.49	-37.65	-33.02	18.24	0.2 MWD (2)
1523		5.13	223.17	1520.1	-43.65	-38.59	21.44	0.77 MWD (2)
1610		4.32	224.61	1606.81	-48.82	-43.55	24.35	0.94 MWD (2)
1697		4.6	225.68	1693.54	-53.59	-48.35	27.23	0.34 MWD (2)
1784		5.33	224.31	1780.21	-58.92	-53.67	30.42	0.85 MWD (2)
1871		6.26	223.29	1866.77	-65.26	-59.74	33.98	1.08 MWD (2)
1957		5.75	224.39	1952.3	-71.76	-65.97	37.63	0.61 MWD (2)
2044		4.97	225.87	2038.92	-77.49	-71.73	41.08	0.91 MWD (2)
2131		5.02	225.55	2125.59	-82.78	-77.15	44.38	0.07 MWD (2)
2217		5	222.45	2211.26	-88.18	-82.37	47.45	0.32 MWD (2)
2304		5.05	231.3	2297.92	-93.38	-87.91	50.9	0.89 MWD (2)
2391		5.26	238.28	2384.57	-97.87	-94.29	55.37	0.76 MWD (2)
2477		5.63	233.64	2470.19	-102.44	-101.04	60.16	0.67 MWD (2)
2564		5.49	229.22	2556.78	-107.69	-107.63	64.57	0.52 MWD (2)
2650		4.78	226.26	2642.43	-112.85	-113.34	68.18	0.88 MWD (2)
2723		4.41	225.05	2715.2	-116.94	-117.52	70.72	0.52 MWD (2)
2836		4.1	218.93	2827.88	-123.15	-123.13	73.89	0.49 MWD (2)

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2880	4.05	220.03	2871.77	-125.56	-125.12	74.94	0.21	MWD (2)
2966	4.63	235.91	2957.53	-129.83	-129.95	78.02	1.54	MWD (2)
3052	6.77	236.24	3043.1	-134.6	-137.04	83.07	2.49	MWD (2)
3139	8.83	236.05	3129.29	-141.18	-146.84	90.05	2.37	MWD (2)
3226	8.86	236.37	3215.26	-148.62	-157.96	97.97	0.07	MWD (2)
3313	8.46	237.42	3301.26	-155.77	-168.93	105.86	0.49	MWD (2)
3399	8.19	238.79	3386.36	-162.35	-179.5	113.56	0.39	MWD (2)
3486	8.86	238.01	3472.4	-169.11	-190.48	121.58	0.78	MWD (2)
3574	8.6	238.77	3559.38	-176.12	-201.86	129.9	0.32	MWD (2)
3663	9.58	235.61	3647.26	-183.75	-213.66	138.4	1.24	MWD (2)
3750	9.1	235.73	3733.1	-191.71	-225.32	146.65	0.55	MWD (2)
3836	10.18	236.49	3817.89	-199.74	-237.28	155.17	1.26	MWD (2)
3923	10.03	236.59	3903.54	-208.15	-250.01	164.28	0.17	MWD (2)
4010	9.59	237.47	3989.27	-216.22	-262.44	173.23	0.53	MWD (2)
4097	10.58	238.29	4074.92	-224.32	-275.35	182.61	1.15	MWD (2)
4183	10.25	239.51	4159.5	-232.35	-288.66	192.39	0.46	MWD (2)
4270	9.79	240.61	4245.18	-239.91	-301.77	202.15	0.57	MWD (2)
4357	9.25	237.82	4330.98	-247.26	-314.14	211.28	0.82	MWD (2)
4444	9.81	236.37	4416.78	-255.09	-326.23	219.98	0.7	MWD (2)
4530	10.62	237.1	4501.41	-263.45	-338.98	229.13	0.95	MWD (2)
4617	9.42	237.85	4587.09	-271.6	-351.74	238.36	1.39	MWD (2)
4704	9.6	234.55	4672.89	-279.59	-363.68	246.86	0.66	MWD (2)
4790	10.35	233.05	4757.59	-288.4	-375.69	255.17	0.92	MWD (2)
4877	10.29	237.24	4843.18	-297.3	-388.47	264.15	0.87	MWD (2)
4966	10.61	237.79	4930.71	-305.97	-402.09	274.01	0.38	MWD (2)
5052	10.82	240.1	5015.21	-314.21	-415.79	284.09	0.56	MWD (2)
5139	10.4	241.41	5100.72	-322.04	-429.76	294.56	0.56	MWD (2)
5226	10.59	239.73	5186.27	-329.83	-443.56	304.89	0.41	MWD (2)
5312	10.77	237.1	5270.78	-338.18	-457.13	314.81	0.6	MWD (2)
5399	9.85	236.82	5356.37	-346.66	-470.19	324.2	1.06	MWD (2)
5486	10.01	236.11	5442.07	-354.95	-482.69	333.14	0.23	MWD (2)
5572	11.18	234.54	5526.6	-363.96	-495.69	342.29	1.4	MWD (2)
5659	10.83	237.92	5612	-373.19	-509.48	352.13	0.84	MWD (2)
5748	10.56	238.06	5699.46	-381.95	-523.49	362.32	0.3	MWD (2)
5835	9.82	238.73	5785.08	-390.01	-536.59	371.9	0.86	MWD (2)
5921	8.64	239.76	5869.97	-397.08	-548.44	380.64	1.39	MWD (2)
6008	9.38	239.54	5955.89	-403.96	-560.2	389.35	0.85	MWD (2)
6095	10.13	238.05	6041.63	-411.6	-572.8	398.6	0.91	MWD (2)
6181	11.08	236.87	6126.17	-420.12	-586.14	408.25	1.13	MWD (2)
6268	10.75	233.83	6211.59	-429.48	-599.69	417.8	0.76	MWD (2)
6355	10.73	236.49	6297.07	-438.74	-613	427.16	0.57	MWD (2)
6430	10.59	236.06	6370.77	-446.44	-624.53	435.39	0.21	MWD (2)
6505	10.68	235.71	6444.49	-454.21	-635.99	443.53	0.15	MWD (3)
6548	11.25	235.97	6486.7	-458.8	-642.76	448.33	1.33	MWD (3)
6592	14.54	237.83	6529.59	-464.14	-651	454.26	7.54	MWD (3)
6635	18.51	238.19	6570.8	-470.62	-661.37	461.81	9.24	MWD (3)
6680	22.52	238.85	6612.94	-478.84	-674.82	471.66	8.93	MWD (3)
6724	26.4	237.76	6652.98	-488.42	-690.31	482.96	8.88	MWD (3)
6767	30.38	237.11	6690.8	-499.43	-707.54	495.41	9.28	MWD (3)
6810	34.75	237.05	6727.03	-512.01	-726.96	509.4	10.16	MWD (3)
6854	39.3	236.49	6762.15	-526.53	-749.11	525.29	10.37	MWD (3)
6897	43.27	236.82	6794.46	-542.12	-772.81	542.27	9.25	MWD (3)
6940	46.39	237.3	6824.95	-558.6	-798.25	560.59	7.3	MWD (3)
6984	49	237.99	6854.56	-576.01	-825.74	580.51	6.04	MWD (3)
7027	52.01	238.55	6881.91	-593.45	-853.96	601.12	7.07	MWD (3)
7070	55.01	238.07	6907.48	-611.61	-883.37	622.6	7.03	MWD (3)
7114	57.97	237.9	6931.77	-631.06	-914.47	645.23	6.73	MWD (3)
7157	60.62	238.03	6953.72	-650.67	-945.81	668.02	6.17	MWD (3)
7201	63.56	238.35	6974.31	-671.16	-978.85	692.12	6.71	MWD (3)
7244	65.94	237.61	6992.66	-691.78	-1011.82	716.11	5.75	MWD (3)
7287	69.12	237.19	7009.09	-713.19	-1045.29	740.3	7.45	MWD (3)
7330	72.14	236.97	7023.35	-735.23	-1079.34	764.82	7.04	MWD (3)
7374	74.39	237.45	7036.02	-758.05	-1114.76	790.36	5.22	MWD (3)
7417	76.43	237.31	7046.85	-780.48	-1149.81	815.69	4.75	MWD (3)

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7461	77.82	237.48	7056.65	-803.6	-1185.94	841.8	3.18	MWD (3)
7504	80.71	238.68	7064.66	-825.93	-1221.8	867.92	7.26	MWD (3)
7547	84.45	239.65	7070.21	-847.78	-1258.4	894.91	8.98	MWD (3)
7591	87.72	239.96	7073.22	-869.85	-1296.34	923.07	7.46	MWD (3)
7634	88.27	241.5	7074.72	-890.86	-1333.83	951.17	3.8	MWD (3)
7721	91.42	247.69	7074.96	-928.16	-1412.37	1012.34	7.98	MWD (3)
7809	92.65	252.51	7071.83	-958.09	-1495.03	1079.89	5.65	MWD (3)
7895	92.71	256.39	7067.81	-981.12	-1577.78	1149.87	4.51	MWD (3)
7982	91.85	260.99	7064.35	-998.16	-1663	1224.21	5.37	MWD (3)
8069	90.99	265.54	7062.19	-1008.36	-1749.35	1301.94	5.32	MWD (3)
8156	90.43	269.98	7061.11	-1011.75	-1836.25	1382.5	5.14	MWD (3)
8242	92.04	274.43	7059.25	-1008.45	-1922.14	1464.39	5.5	MWD (3)
8329	91.6	278.76	7056.49	-998.46	-2008.5	1549	5	MWD (3)
8416	90.8	282.74	7054.67	-982.24	-2093.94	1634.86	4.67	MWD (3)
8503	90.62	286.84	7053.59	-960.04	-2178.03	1721.49	4.72	MWD (3)
8590	91.42	290.9	7052.04	-931.91	-2260.33	1808.44	4.76	MWD (3)
8677	91.42	293.92	7049.88	-898.76	-2340.72	1895.32	3.47	MWD (3)
8764	89.88	297.56	7048.9	-860.99	-2419.07	1981.84	4.54	MWD (3)
8850	89.32	302.77	7049.5	-817.79	-2493.39	2066.43	6.09	MWD (3)
8939	92.71	308.18	7047.92	-766.17	-2565.83	2152.1	7.17	MWD (3)
9026	92.03	311.2	7044.32	-710.67	-2632.71	2233.88	3.56	MWD (3)
9112	91.91	313.36	7041.36	-652.85	-2696.29	2313.34	2.51	MWD (3)
9199	91.91	313.86	7038.46	-592.87	-2759.25	2392.95	0.57	MWD (3)
9286	91.6	313.77	7035.8	-532.67	-2822	2472.44	0.37	MWD (3)
9373	90.74	314.47	7034.02	-472.12	-2884.44	2551.76	1.27	MWD (3)
9459	90.35	313.99	7033.21	-412.13	-2946.06	2630.11	0.72	MWD (3)
9546	90.49	314.38	7032.57	-351.5	-3008.45	2709.4	0.48	MWD (3)
9633	90.68	312.69	7031.68	-291.57	-3071.51	2789.09	1.95	MWD (3)
9720	91.54	312.86	7029.99	-232.5	-3135.36	2869.23	1.01	MWD (3)
9807	90.49	313.87	7028.45	-172.78	-3198.6	2949.01	1.67	MWD (3)
9893	91.23	314.34	7027.16	-112.93	-3260.34	3027.43	1.02	MWD (3)
9980	90.86	314.35	7025.58	-52.13	-3322.55	3106.62	0.43	MWD (3)
10067	90.92	314.29	7024.22	8.65	-3384.79	3185.82	0.1	MWD (3)
10153	90.68	314.17	7023.02	68.63	-3446.4	3264.17	0.31	MWD (3)
10240	91.54	315.51	7021.34	129.96	-3508.08	3343.03	1.83	MWD (3)
10329	90.74	316.08	7019.57	193.75	-3570.12	3423.07	1.1	MWD (3)
10415	90.99	314.5	7018.27	254.86	-3630.61	3500.74	1.86	MWD (3)
10503	91.85	314.16	7016.09	316.33	-3693.54	3580.83	1.05	MWD (3)
10589	91.11	313.97	7013.87	376.12	-3755.32	3659.27	0.89	MWD (3)
10676	90.37	314.7	7012.74	436.92	-3817.54	3738.46	1.19	MWD (3)
10763	90.99	312.88	7011.71	497.12	-3880.33	3817.99	2.21	MWD (3)
10850	90.74	312.77	7010.4	556.25	-3944.14	3898.1	0.31	MWD (3)
10937	91.85	312.96	7008.43	615.42	-4007.89	3978.18	1.29	MWD (3)
11023	91.23	313.35	7006.12	674.22	-4070.6	4057.16	0.85	MWD (3)
11110	91.97	313.68	7003.69	734.1	-4133.67	4136.83	0.93	MWD (3)
11197	91.66	313.07	7000.94	793.81	-4196.87	4216.59	0.79	MWD (3)
11284	91.05	311.97	6998.88	852.6	-4260.98	4296.86	1.45	MWD (3)
11370	91.85	311.7	6996.7	909.94	-4325.03	4376.61	0.98	MWD (3)
11457	91.73	312.54	6993.98	968.26	-4389.53	4457.1	0.97	MWD (3)
11543	91.54	312.68	6991.53	1026.46	-4452.8	4536.4	0.27	MWD (3)
11630	91.17	313.06	6989.47	1085.63	-4516.54	4616.47	0.61	MWD (3)
11717	91.73	314.04	6987.27	1145.55	-4579.58	4696.13	1.3	MWD (3)
11805	92.28	314.99	6984.19	1207.21	-4642.29	4776.08	1.25	MWD (3)
11892	91.42	314.69	6981.38	1268.52	-4703.95	4854.91	1.05	MWD (3)
11978	91.23	313.56	6979.4	1328.38	-4765.66	4933.31	1.33	MWD (3)
12065	91.6	314.39	6977.25	1388.77	-4828.25	5012.71	1.04	MWD (3)
12152	91.6	315.12	6974.82	1450	-4890.01	5091.62	0.84	MWD (3)
12240	91.54	314.46	6972.41	1511.97	-4952.44	5171.41	0.75	MWD (3)
12327	91.42	313.56	6970.16	1572.4	-5014.99	5250.78	1.04	MWD (3)
12414	91.91	314.51	6967.63	1632.85	-5077.5	5330.14	1.23	MWD (3)
12501	91.48	315.03	6965.06	1694.09	-5139.24	5409.03	0.78	MWD (3)
12587	91.05	314.7	6963.16	1754.74	-5200.18	5486.97	0.63	MWD (3)
12674	91.91	314.44	6960.91	1815.78	-5262.14	5565.99	1.03	MWD (3)
12761	91.05	314.35	6958.67	1876.62	-5324.28	5645.13	0.99	MWD (3)

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91.48	314.63	6957.5	1913.75	-5362.08	5693.31	0.97	MWD (3)
91.48	314.63	6955.95	1955.89	-5404.77	5747.78	0	MWD (3)

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