

~WELL INFORMATION

WELL NAME: BONNETTE MSH 10 WB#1  
 FILE CREATED: 3/1/2016 15:21  
 START DEPTH: 0  
 STOP DEPTH: 11130  
 PLAY: West Virginia  
 COUNTY: Marshall Co. WV  
 SHL LATITUDE: 39.721557  
 SHL LONGITUDE: -80.71179  
 SHL NORTHING: 14425473.77  
 SHL EASTING: 1721457.034  
 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: -7.9  
 DEC DATE: 6/13/2015  
 MAG MODEL: HDGM  
 MAG DIP: 67.15  
 MAG STRENGTH: 52609.9  
 NORTH REF: Grid  
 GRID CONV: 0.18  
 TOTAL CORR: -8.08  
 VS REF: Slot  
 VS AZI: 111.96

~SURVEY DATA

MD	INC	AZI	TVD	NS	EW	VSEC	DLS	TOOL
0		0	0	0	0	0	0	UNDEFINED
118		0.28	309.56	118	0.18	-0.22	-0.27	0.24 MS-SRG-WLINE (1)
209		0.64	228.9	209	-0.01	-0.78	-0.72	0.72 MS-SRG-WLINE (1)
300		0.13	221.31	299.99	-0.42	-1.23	-0.98	0.56 MS-SRG-WLINE (1)
392		1.16	70.94	391.99	-0.19	-0.42	-0.31	1.39 MS-SRG-WLINE (1)
466		0.82	74.85	465.98	0.19	0.8	0.67	0.47 MS-SRG-WLINE (1)
552		0.82	355.5	551.97	0.96	1.35	0.89	1.22 MS-SRG-WLINE (1)
640		0.73	42.03	639.96	2.01	1.67	0.8	0.7 MS-SRG-WLINE (1)
763		0.51	354.57	762.96	3.13	2.15	0.82	0.44 MWD+HRGM (2)
807		0.69	9.64	806.96	3.59	2.17	0.67	0.54 MWD+HRGM (2)
894		2.57	56.83	893.92	5.17	3.89	1.68	2.48 MWD+HRGM (2)
981		3.67	50.74	980.79	8	7.68	4.13	1.32 MWD+HRGM (2)
1068		4.96	54.07	1067.54	11.97	12.88	7.47	1.51 MWD+HRGM (2)
1154		6.05	57.01	1153.14	16.62	19.7	12.05	1.31 MWD+HRGM (2)
1242		6.51	61.39	1240.61	21.54	27.97	17.88	0.75 MWD+HRGM (2)
1328		6.01	69.91	1326.1	25.42	36.47	24.32	1.23 MWD+HRGM (2)
1415		5.87	73.52	1412.64	28.24	45.02	31.19	0.46 MWD+HRGM (2)
1501		5.66	72.69	1498.2	30.75	53.28	37.92	0.26 MWD+HRGM (2)
1588		4.73	66.71	1584.84	33.45	60.67	43.76	1.24 MWD+HRGM (2)
1674		4.98	62.83	1670.54	36.55	67.25	48.7	0.48 MWD+HRGM (2)
1761		4.51	63.16	1757.24	39.82	73.66	53.43	0.54 MWD+HRGM (2)
1848		4.04	63.95	1843.99	42.71	79.47	57.73	0.54 MWD+HRGM (2)
1935		4.04	55.93	1930.78	45.78	84.76	61.49	0.65 MWD+HRGM (2)
2021		4.36	49.92	2016.55	49.58	89.77	64.72	0.63 MWD+HRGM (2)
2108		4.74	51.51	2103.27	53.94	95.12	68.04	0.46 MWD+HRGM (2)
2195		4.87	53.39	2189.97	58.38	100.89	71.74	0.23 MWD+HRGM (2)
2282		5.18	54.25	2276.63	62.88	107.04	75.76	0.37 MWD+HRGM (2)
2368		5.23	54	2362.28	67.45	113.37	79.92	0.06 MWD+HRGM (2)
2455		5.09	53.01	2448.93	72.11	119.66	84.01	0.19 MWD+HRGM (2)
2542		5.23	56.17	2535.57	76.63	126.03	88.23	0.36 MWD+HRGM (2)
2628		5.23	56.46	2621.22	80.99	132.56	92.66	0.03 MWD+HRGM (2)
2715		5.11	58.01	2707.86	85.23	139.16	97.19	0.22 MWD+HRGM (2)
2732		5.12	57.83	2724.79	86.04	140.44	98.08	0.11 MWD+HRGM (2)
2844		5.03	56.35	2836.35	91.42	148.76	103.78	0.14 MWD+HRGM (2)
2887		5	56.69	2879.19	93.49	151.9	105.91	0.1 MWD+HRGM (2)
2974		5	56.96	2965.86	97.64	158.24	110.25	0.03 MWD+HRGM (2)

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3061	6.77	51.1	3052.4	102.93	165.41	114.92	2.15	MWD+HRGM (2)
3147	9.68	48.74	3137.5	110.88	174.8	120.65	3.41	MWD+HRGM (2)
3234	12.85	48.82	3222.82	122.08	187.58	128.32	3.64	MWD+HRGM (2)
3320	16.48	49.19	3306	136.35	204.01	138.22	4.22	MWD+HRGM (2)
3407	19.1	50.62	3388.83	153.45	224.36	150.7	3.05	MWD+HRGM (2)
3493	20.78	50.34	3469.68	172.12	246.98	164.7	1.96	MWD+HRGM (2)
3580	20.84	49.22	3551	192.08	270.58	179.12	0.46	MWD+HRGM (2)
3667	20.19	51.42	3632.48	211.55	294.04	193.59	1.16	MWD+HRGM (2)
3755	18.93	54.64	3715.41	229.28	317.55	208.77	1.88	MWD+HRGM (2)
3844	19.16	53.82	3799.54	246.26	341.11	224.27	0.4	MWD+HRGM (2)
3931	20.16	53.8	3881.46	263.54	364.74	239.72	1.15	MWD+HRGM (2)
4017	20	52.89	3962.24	281.16	388.42	255.1	0.41	MWD+HRGM (2)
4104	19.92	51.43	4044.01	299.38	411.88	270.04	0.58	MWD+HRGM (2)
4191	19.43	50.83	4125.93	317.76	434.68	284.31	0.61	MWD+HRGM (2)
4278	18.74	49.05	4208.15	336.06	456.46	297.67	1.04	MWD+HRGM (2)
4364	19.35	51.41	4289.44	354	478.03	310.96	1.14	MWD+HRGM (2)
4451	19.39	52.74	4371.52	371.74	500.79	325.44	0.51	MWD+HRGM (2)
4538	19.97	52.79	4453.44	389.46	524.11	340.44	0.67	MWD+HRGM (2)
4625	19.31	53.78	4535.37	406.95	547.55	355.64	0.85	MWD+HRGM (2)
4711	18.51	51.63	4616.73	423.82	569.73	369.9	1.23	MWD+HRGM (2)
4798	19.75	50.6	4698.93	441.73	591.91	383.78	1.48	MWD+HRGM (2)
4885	19.28	49.82	4780.93	460.33	614.25	397.54	0.62	MWD+HRGM (2)
4971	19.73	50.92	4861.99	478.64	636.36	411.2	0.68	MWD+HRGM (2)
5060	20.28	51.45	4945.62	497.72	660.09	426.07	0.65	MWD+HRGM (2)
5147	20.67	50.75	5027.13	516.83	683.77	440.88	0.53	MWD+HRGM (2)
5234	21.03	49.2	5108.43	536.75	707.48	455.42	0.76	MWD+HRGM (2)
5320	20.67	50.01	5188.8	556.58	730.79	469.62	0.54	MWD+HRGM (2)
5407	20.16	52.56	5270.34	575.57	754.45	484.48	1.18	MWD+HRGM (2)
5493	19.54	51.16	5351.23	593.6	777.42	499.04	0.91	MWD+HRGM (2)
5580	18.68	48.2	5433.43	612.01	799.14	512.3	1.49	MWD+HRGM (2)
5667	20.11	48.81	5515.49	631.14	820.79	525.21	1.66	MWD+HRGM (2)
5753	20.74	52.12	5596.09	650.23	843.93	539.54	1.53	MWD+HRGM (2)
5842	20.64	51.32	5679.35	669.71	868.62	555.15	0.34	MWD+HRGM (2)
5929	20.55	52.53	5760.79	688.58	892.7	570.43	0.5	MWD+HRGM (2)
6016	19.75	51.36	5842.46	707.05	916.31	585.41	1.03	MWD+HRGM (2)
6102	19.84	53.92	5923.38	724.72	939.45	600.27	1.01	MWD+HRGM (2)
6189	18.75	52.48	6005.5	741.93	962.47	615.19	1.37	MWD+HRGM (2)
6276	19.62	50.54	6087.67	759.73	984.84	629.28	1.24	MWD+HRGM (2)
6363	19.9	50.96	6169.54	778.34	1007.62	643.44	0.36	MWD+HRGM (2)
6449	19.84	53.34	6250.42	796.27	1030.69	658.14	0.94	MWD+HRGM (2)
6536	20.07	52.6	6332.2	814.15	1054.4	673.43	0.39	MWD+HRGM (2)
6604	19.3	50.98	6396.23	828.32	1072.4	684.83	1.39	MWD+HRGM (2)
6690	19.56	64.74	6477.37	843.41	1096.47	701.51	5.32	MWD+HRGM (2)
6779	24.76	79.28	6559.83	853.25	1128.3	727.36	8.45	MWD+HRGM (2)
6866	28.96	86.65	6637.45	857.88	1167.26	761.76	6.15	MWD+HRGM (2)
6952	35.01	94.99	6710.4	856.95	1212.68	804.24	8.7	MWD+HRGM (2)
7039	39.7	103.76	6779.58	848.15	1264.6	855.67	8.14	MWD+HRGM (2)
7126	43.85	114.29	6844.53	829.12	1319.15	913.38	9.36	MWD+HRGM (2)
7213	48.12	119.64	6904.99	800.68	1374.81	975.64	6.6	MWD+HRGM (2)
7300	51.6	119.37	6961.07	767.93	1432.69	1041.57	4.01	MWD+HRGM (2)
7386	55.73	119.87	7012.01	733.69	1492.9	1110.21	4.83	MWD+HRGM (2)
7473	64.13	120.42	7055.56	695.9	1557.94	1184.67	9.67	MWD+HRGM (2)
7560	70.7	122.03	7088.96	654.26	1626.58	1263.89	7.74	MWD+HRGM (2)
7646	75.11	125.93	7114.24	608.31	1694.69	1344.25	6.71	MWD+HRGM (2)
7733	81.71	130.9	7131.72	555.37	1761.38	1425.9	9.42	MWD+HRGM (2)
7820	88.09	132.37	7139.45	497.83	1826.11	1507.45	7.52	MWD+HRGM (2)
7907	88.03	133.17	7142.4	438.78	1889.94	1588.73	0.92	MWD+HRGM (2)
7994	88.27	133.39	7145.21	379.17	1953.24	1669.73	0.37	MWD+HRGM (2)
8081	88.4	131.88	7147.74	320.27	2017.22	1751.09	1.74	MWD+HRGM (2)
8168	88.4	131.92	7150.16	262.19	2081.95	1832.84	0.05	MWD+HRGM (2)
8255	88.27	132.57	7152.69	203.72	2146.32	1914.41	0.76	MWD+HRGM (2)
8341	88.4	132.22	7155.19	145.76	2209.81	1994.97	0.43	MWD+HRGM (2)
8428	88.34	132.93	7157.67	86.93	2273.85	2076.36	0.82	MWD+HRGM (2)
8515	88.4	134.83	7160.14	26.65	2336.53	2157.04	2.18	MWD+HRGM (2)
8602	88.33	136.75	7162.62	-35.68	2397.16	2236.58	2.21	MWD+HRGM (2)
8689	88.34	136.61	7165.15	-98.95	2456.83	2315.58	0.16	MWD+HRGM (2)

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8776	87.96	133.74	7167.96	-160.62	2518.12	2395.48	3.33	MWD+HRGM (2)
8863	88.15	131.91	7170.91	-219.72	2581.89	2476.73	2.11	MWD+HRGM (2)
8949	88.34	132.38	7173.55	-277.4	2645.62	2557.41	0.59	MWD+HRGM (2)
9038	88.34	129.75	7176.13	-335.83	2712.69	2641.46	2.95	MWD+HRGM (2)
9125	88.71	127.64	7178.37	-390.2	2780.57	2724.74	2.46	MWD+HRGM (2)
9211	88.52	127.73	7180.44	-442.76	2848.61	2807.5	0.24	MWD+HRGM (2)
9298	88.4	127.66	7182.78	-495.94	2917.42	2891.21	0.16	MWD+HRGM (2)
9385	88.34	127.56	7185.26	-549.01	2986.32	2974.95	0.13	MWD+HRGM (2)
9472	88.95	128.79	7187.31	-602.77	3054.69	3058.47	1.58	MWD+HRGM (2)
9558	88.83	134.44	7188.98	-659.85	3118.94	3139.41	6.57	MWD+HRGM (2)
9645	88.71	135.46	7190.85	-721.3	3180.5	3219.48	1.18	MWD+HRGM (2)
9732	88.83	136.72	7192.72	-783.96	3240.82	3298.85	1.45	MWD+HRGM (2)
9819	88.89	136.3	7194.45	-847.06	3300.69	3377.97	0.49	MWD+HRGM (2)
9905	88.64	134.8	7196.3	-908.44	3360.9	3456.77	1.77	MWD+HRGM (2)
9992	88.83	133.62	7198.22	-969.09	3423.24	3537.27	1.37	MWD+HRGM (2)
10079	88.77	132.48	7200.04	-1028.46	3486.8	3618.42	1.31	MWD+HRGM (2)
10166	88.95	130.63	7201.78	-1086.16	3551.89	3700.36	2.14	MWD+HRGM (2)
10252	89.69	129.97	7202.8	-1141.78	3617.47	3781.99	1.15	MWD+HRGM (2)
10339	89.32	129.79	7203.55	-1197.56	3684.23	3864.76	0.47	MWD+HRGM (2)
10428	89.2	128.45	7204.7	-1253.71	3753.28	3949.79	1.51	MWD+HRGM (2)
10515	89.26	127.98	7205.87	-1307.52	3821.62	4033.31	0.54	MWD+HRGM (2)
10602	89.63	129.49	7206.71	-1361.96	3889.48	4116.6	1.79	MWD+HRGM (2)
10688	89.51	130.65	7207.35	-1417.31	3955.29	4198.33	1.36	MWD+HRGM (2)
10775	89.57	130.42	7208.05	-1473.86	4021.41	4280.8	0.27	MWD+HRGM (2)
10862	89.57	131.32	7208.71	-1530.78	4087.2	4363.1	1.03	MWD+HRGM (2)
10949	89.51	131.62	7209.4	-1588.39	4152.38	4445.1	0.35	MWD+HRGM (2)
11035	89.63	131.62	7210.05	-1645.51	4216.67	4526.09	0.14	MWD+HRGM (2)
11107	89.75	133.64	7210.44	-1694.27	4269.64	4593.45	2.81	MWD+HRGM (2)
11130	89.75	133.64	7210.54	-1710.14	4286.29	4614.82	0	MWD+HRGM (2)

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