

# MWD

Customer: Chesapeake Op.  
 Well: Wagner 11-65 9-1H  
 Field/Block: DJ Basin  
 Co./Parish: Weld  
 State: CO

Date of First Survey: May 12, 2011  
 Date of Last Survey: May 14, 2011

## SURVEYS STRAIGHT HOLE

Total Correction: 8.34 East Grid

Vertical Section Plane: 180.83 Nominal Dip Angle: 67.51 Magnetic Field Strength: .534  
**Measured**  
**Depth** **Inc.** **Azm.** **T.V.D.** **Ver. Sect.** **+N / -S** **+E / -W** **Dist.** **Angle** **DLS**  
 Survey's are tied into: MWD Date Received: 05/11/11

### Company: Xtreme Engineering

0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Xtreme	289	0.25	0.00	289.00	-0.63	0.63	0.00	0.63	0.00	0.00	0.09
Xtreme	793	1.00	0.00	792.97	-6.13	6.13	0.00	6.13	0.00	0.00	0.15
Xtreme	1,024	0.75	0.00	1023.94	-9.65	9.66	0.00	9.66	0.00	0.00	0.11
Xtreme	1,034	0.53	22.96	1033.94	-9.76	9.76	0.02	9.76	0.11	0.11	3.34
Xtreme	1,289	0.18	180.99	1288.93	-10.45	10.45	0.47	10.46	2.58	0.27	0.27
Xtreme	1,508	0.18	82.73	1507.93	-10.16	10.15	0.81	10.18	4.54	0.12	0.12
Xtreme	1,809	0.18	229.86	1808.93	-9.92	9.90	0.91	9.95	5.27	0.11	0.11
Xtreme	2,076	0.09	245.41	2075.93	-9.55	9.55	0.40	9.55	2.42	0.04	0.04
Xtreme	2,338	0.53	228.63	2337.93	-8.65	8.66	-0.69	8.69	355.42	0.17	0.17
Xtreme	2,582	0.70	275.38	2581.92	-8.01	8.05	-3.02	8.60	339.42	0.21	0.21
Xtreme	2,899.8	0.88	313.79	2899.69	-9.83	9.92	-6.72	11.99	325.90	0.17	0.17
Xtreme	3,266	1.58	331.28	3265.80	-16.13	16.30	-11.18	19.76	325.56	0.21	0.21

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Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	
Xtreme	3,517	1.49	338.40	3516.71	-22.16	22.37	-14.04	26.41	327.88	0.08
Xtreme	3,817.4	2.02	350.44	3816.97	-30.98	31.22	-16.36	35.24	332.35	0.21
Xtreme	4,104	2.72	355.19	4103.32	-42.71	42.98	-17.77	46.50	337.54	0.25
Xtreme	4,417	3.16	0.11	4415.91	-58.73	59.00	-18.37	61.80	342.71	0.16
Xtreme	4,673	4.04	2.84	4671.40	-74.80	75.07	-17.91	77.17	346.58	0.35
Xtreme	4,956.6	4.22	11.80	4954.27	-95.03	95.26	-15.28	96.48	350.89	0.24
Xtreme	5,242.2	3.87	23.58	5239.16	-114.23	114.38	-9.28	114.75	355.36	0.31
Xtreme	5,564	3.52	30.08	5560.30	-132.87	132.88	0.02	132.88	0.01	0.17
Xtreme	5,964	3.08	32.19	5959.63	-152.76	152.60	11.90	153.06	4.46	0.11
Xtreme	6,272	2.46	43.79	6267.27	-164.66	164.37	20.88	165.70	7.24	0.27
1	6,288	2.70	45.00	6283.26	-165.18	164.89	21.38	166.27	7.39	1.54
2	6,383	2.70	42.10	6378.15	-168.47	168.13	24.47	169.90	8.28	0.14
3	6,478	2.70	33.30	6473.05	-172.04	171.66	27.19	173.80	9.00	0.44
4	6,573	2.40	32.50	6567.95	-175.62	175.21	29.49	177.67	9.55	0.32
5	6,668	1.70	38.80	6662.89	-178.42	177.99	31.44	180.74	10.02	0.77
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					+N / -S	+E / -W	Dist.	Angle
6	6,764	1.40	6758.86	-180.28	179.81	33.26	182.86	10.48
7	6,858	1.10	6852.83	-181.24	180.76	35.04	184.12	10.97
8	6,953	1.20	6947.82	-181.18	180.66	36.86	184.39	11.53
9	7,049	0.80	7043.80	-180.52	179.98	38.38	184.03	12.04
10	7,142	0.80	7136.79	-179.79	179.24	39.44	183.53	12.41
11	7,237	0.90	7231.78	-179.20	178.63	40.68	183.20	12.83
12	7,332	0.50	7326.78	-178.88	178.29	41.79	183.12	13.19
13	7,428	0.70	7422.77	-178.44	177.84	42.68	182.88	13.49
14	7,523	0.50	7517.76	-178.00	177.39	43.56	182.66	13.80
15	7,619	0.70	7613.76	-177.68	177.06	44.51	182.57	14.11
16	7,714	0.80	7708.75	-177.34	176.69	45.70	182.51	14.50
17	7,809	0.60	7803.74	-177.03	176.37	46.81	182.48	14.86
18	7,904	0.60	7898.74	-176.77	176.10	47.77	182.46	15.18
19	7,968	0.60	7962.74	-176.54	175.86	48.39	182.40	15.39
20	8,031	0.30	8025.73	-176.35	175.66	48.85	182.33	15.54

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21	8,095	0.40	85.60	8089.73	-176.32	175.63	49.23	182.40	15.66	0.27
22	8,127	0.40	87.30	8121.73	-176.34	175.64	49.45	182.47	15.72	0.04
23	8,159	0.50	86.00	8153.73	-176.36	175.66	49.70	182.55	15.80	0.31
24	8,191	0.40	88.00	8185.73	-176.37	175.67	49.95	182.63	15.87	0.32
25	8,221	0.60	117.30	8215.73	-176.31	175.60	50.20	182.63	15.95	1.06
26	8,253	0.60	101.90	8247.73	-176.20	175.49	50.51	182.61	16.06	0.50
27	8,285	0.40	99.90	8279.73	-176.15	175.44	50.78	182.64	16.14	0.63
28	8,317	0.50	138.20	8311.72	-176.03	175.31	50.99	182.58	16.22	0.97
29	8,348	0.30	112.90	8342.72	-175.90	175.18	51.15	182.50	16.28	0.85
30	8,379	0.60	121.90	8373.72	-175.79	175.06	51.36	182.44	16.35	0.99
31	8,411	0.60	122.00	8405.72	-175.62	174.89	51.65	182.35	16.45	0.00
32	8,431	0.70	115.30	8425.72	-175.51	174.78	51.85	182.31	16.52	0.63
33	8,479	0.70	115.30	8473.72	-175.27	174.53	52.38	182.22	16.71	0.00
34	8,512	0.20	102.50	8506.71	-175.17	174.43	52.62	182.19	16.79	1.54
35	8,536	0.40	71.50	8530.71	-175.19	174.45	52.74	182.24	16.82	1.04
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Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	
36	8,592	0.30	128.60	8586.71	-175.17	174.42	53.04	182.30	16.91	0.62
37	8,654	0.60	140.50	8648.71	-174.82	174.06	53.37	182.06	17.05	0.50
38	8,672	0.70	108.40	8666.71	-174.71	173.96	53.53	182.01	17.11	2.07
39	8,772	0.30	155.30	8766.71	-174.29	173.53	54.22	181.80	17.35	0.54
40	8,822	0.70	105.40	8816.71	-174.10	173.33	54.57	181.71	17.48	1.11
41	8,925	0.70	105.40	8919.70	-173.78	172.99	55.79	181.76	17.87	0.00