



# Professional Directional, Ltd

Company: Chesapeake Operating  
Well: Brent 20-8-66 1H  
Location: Weld County, Colorado

Date:25-Oct-2011  
Rev0  
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Job# : 6188

MD (feet)	Inclination (degrees)	Azimuth (degrees)	TVD (feet)	N/-S (feet)	E/-W (feet)	DLS (deg/100')	VS @ 1.75° Az (feet)	NAD83 Co North gr elev=5107.8 RKB=5130	Comments
<b>Surface Location</b>									
6508.04	0.00	1.75	6508.04	0.00	0.00	0.00	0.00	KOP Begin 10°/100' Build	
6608.04	10.00	1.75	6607.54	8.70	0.27	10.00	8.70		
6708.04	20.00	1.75	6704.01	34.54	1.06	10.00	34.55		
6808.04	30.00	1.75	6794.52	76.73	2.34	10.00	76.76		
6908.04	40.00	1.75	6876.33	133.98	4.09	10.00	134.05		
7008.04	50.00	1.75	6946.95	204.57	6.25	10.00	204.67	Begin 90° Lateral Section	
7108.04	60.00	1.75	7004.24	286.35	8.75	10.00	286.48		
7208.04	70.00	1.75	7046.45	376.82	11.51	10.00	376.99		
7308.04	80.00	1.75	7072.30	473.24	14.46	10.00	473.46		
7408.04	90.00	1.75	7081.00	572.69	17.49	10.00	572.96		
7908.04	90.00	1.75	7081.00	1072.46	32.76	0.00	1072.96		
8408.04	90.00	1.75	7081.00	1572.22	48.03	0.00	1572.96		
8908.04	90.00	1.75	7081.00	2071.99	63.30	0.00	2072.96		
9408.04	90.00	1.75	7081.00	2571.76	78.56	0.00	2572.96		
9908.04	90.00	1.75	7081.00	3071.53	93.83	0.00	3072.96		
10408.04	90.00	1.75	7081.00	3571.29	109.10	0.00	3572.96	PBHL/TD	
10908.04	90.00	1.75	7081.00	4071.06	124.36	0.00	4072.96		
11144.04	90.00	1.75	7081.00	4306.95	131.57	0.00	4308.96		