

**GyroTracer Directional:**

Date: 2/13/2018  
 Operator : Ashton Williams  
 API : 05-123-20852  
 Well Name : Bangert 33-19  
 Field : Crestone Peak Resources LLC,  
 Tool Type And Number: 1609  
 Bottom Depth : 7725.00  
 Latitude : 40.121926 N  
 Longitude : 104.817693 W  
 Location: NWSE 19 2N66W 6 PM  
 Planned Footages: 2143 FSL 1950 FEL

**Starting Point Coordinates (in local grid):**

Northing: 0.00      Easting: 0.00      Altitude: 4862.00

**Description:**

*Azimuth measured in degrees and referenced to True North*

*Inclination measured from Vertical*

*Length measured in US survey feet*

*Temperature measured in Fahrenheit degrees*

Start Time: 2/13/2018 8:37

End Time: 2/13/2018 9:59

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance
					+N/-S	+E/-W		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.000	0.350	97.721	68.895	100.000	0.220	0.570	0.350	0.611
200.000	0.350	82.563	79.634	199.998	0.205	1.123	0.094	1.142
300.000	0.400	82.546	78.791	299.996	0.343	1.730	0.053	1.763
400.000	0.300	62.048	75.042	399.994	0.621	2.325	0.160	2.407
500.000	0.160	9.310	69.852	499.993	0.956	2.605	0.240	2.774
600.000	0.360	302.085	57.211	599.991	1.412	2.192	0.332	2.608
700.000	0.750	289.941	34.273	699.985	1.863	1.270	0.402	2.255
800.000	0.820	287.521	0.756	799.977	2.264	0.030	0.078	2.264
900.000	0.820	284.335	332.962	899.967	2.580	-1.317	0.045	2.897
1000.000	0.870	271.626	314.473	999.957	2.644	-2.694	0.190	3.775
1100.000	0.740	259.214	300.231	1099.947	2.398	-4.115	0.211	4.763
1200.000	0.940	245.109	289.795	1199.937	1.967	-5.465	0.285	5.808
1300.000	0.900	244.700	281.822	1299.927	1.410	-6.735	0.034	6.881
1400.000	0.710	248.093	276.110	1399.917	0.860	-8.033	0.153	8.079
1500.000	0.790	251.502	272.028	1499.907	0.332	-9.362	0.068	9.368
1600.000	0.940	249.136	268.806	1599.896	-0.224	-10.723	0.115	10.726
1700.000	0.910	248.618	265.941	1699.883	-0.864	-12.169	0.060	12.200
1800.000	1.050	248.283	263.889	1799.870	-1.463	-13.666	0.181	13.744
1900.000	0.810	244.729	262.284	1899.857	-2.058	-15.190	0.160	15.329
2000.000	0.760	245.139	261.015	1999.844	-2.636	-16.674	0.178	16.882
2100.000	0.820	246.837	259.628	2099.830	-3.324	-18.160	0.053	18.462
2200.000	0.910	229.227	257.499	2199.817	-4.321	-19.488	0.284	19.961

2300.000	1.050	229.780	255.409	2299.800	-5.438	-20.890	0.127	21.586
2400.000	1.350	232.596	253.328	2399.777	-6.759	-22.570	0.216	23.560
2500.000	1.390	230.769	251.724	2499.747	-8.133	-24.627	0.066	25.935
2600.000	1.410	233.704	250.118	2599.715	-9.639	-26.654	0.097	28.343
2700.000	1.600	227.531	248.549	2699.677	-11.319	-28.807	0.255	30.951
2800.000	1.650	237.216	247.348	2799.634	-13.012	-31.178	0.263	33.785
2900.000	1.930	245.539	246.863	2899.586	-14.491	-33.912	0.343	36.878
3000.000	2.220	251.637	247.298	2999.527	-15.553	-37.177	0.415	40.300
3100.000	2.390	256.510	247.982	3099.450	-16.564	-40.960	0.444	44.183
3200.000	2.610	256.920	248.820	3199.348	-17.572	-45.351	0.303	48.637
3300.000	2.440	264.727	249.626	3299.245	-18.488	-49.782	0.337	53.104
3400.000	1.860	267.040	250.639	3399.181	-18.743	-53.340	0.542	56.538
3500.000	1.740	267.768	251.563	3499.132	-18.820	-56.451	0.031	59.506
3600.000	1.710	264.760	252.330	3599.087	-18.934	-59.436	0.103	62.380
3700.000	1.580	266.159	253.015	3699.043	-19.069	-62.427	0.091	65.274
3800.000	1.680	262.343	253.503	3798.999	-19.355	-65.356	0.157	68.162
3900.000	1.330	261.612	253.805	3898.966	-19.714	-67.880	0.258	70.685
4000.000	1.280	278.202	254.315	3998.945	-19.642	-69.948	0.384	72.653
4100.000	1.180	278.913	254.829	4098.925	-19.501	-71.918	0.025	74.516
4200.000	1.290	282.486	255.414	4198.906	-19.221	-73.868	0.237	76.328
4300.000	1.240	287.737	256.049	4298.885	-18.847	-75.868	0.171	78.174
4400.000	1.200	295.769	256.959	4398.859	-18.064	-77.990	0.163	80.054
4500.000	1.510	303.762	258.087	4498.830	-16.888	-80.049	0.325	81.811
4600.000	1.540	312.311	259.465	4598.795	-15.282	-82.177	0.217	83.586
4700.000	1.710	313.826	261.028	4698.753	-13.311	-84.302	0.150	85.347
4800.000	2.120	329.747	262.938	4798.698	-10.692	-86.310	0.657	86.970
4900.000	2.600	330.809	265.330	4898.617	-7.212	-88.282	0.619	88.576
5000.000	2.840	335.721	268.251	4998.496	-2.760	-90.368	0.311	90.410
5100.000	3.030	335.018	271.201	5098.362	1.940	-92.538	0.190	92.558
5200.000	2.740	335.405	273.948	5198.237	6.523	-94.529	0.285	94.754
5300.000	2.370	331.870	276.352	5298.127	10.748	-96.540	0.407	97.137
5400.000	2.320	332.543	278.413	5398.037	14.555	-98.416	0.057	99.487
5500.000	2.240	335.803	280.263	5497.954	18.159	-100.292	0.160	101.923
5600.000	1.830	337.950	281.878	5597.890	21.402	-101.752	0.421	103.978
5700.000	1.680	337.788	283.164	5697.847	24.078	-102.945	0.149	105.724
5800.000	1.510	335.458	284.318	5797.811	26.540	-103.984	0.179	107.318
5900.000	1.320	330.776	285.104	5897.786	28.398	-105.219	0.218	108.984
6000.000	1.330	320.411	285.804	5997.762	30.152	-106.529	0.237	110.714
6100.000	1.370	318.680	286.463	6097.737	31.896	-107.932	0.058	112.546
6200.000	0.960	312.700	287.019	6197.718	33.406	-109.137	0.415	114.135
6300.000	0.200	320.255	287.261	6297.714	34.062	-109.626	0.747	114.796
6400.000	0.300	323.439	287.509	6397.712	34.637	-109.790	0.100	115.124
6500.000	0.440	19.167	287.787	6497.710	35.189	-109.684	0.363	115.190
6600.000	0.700	31.051	288.125	6597.708	35.862	-109.561	0.288	115.281
6700.000	0.410	42.043	288.643	6697.701	36.763	-108.969	0.314	115.004
6800.000	0.640	18.217	289.085	6797.697	37.541	-108.505	0.308	114.816
6900.000	0.480	31.682	289.431	6897.694	38.212	-108.321	0.208	114.863
7000.000	0.430	314.963	289.705	6997.692	38.821	-108.395	0.562	115.137
7100.000	0.330	342.041	289.891	7097.690	39.277	-108.556	0.197	115.443
7200.000	0.300	294.575	290.084	7197.688	39.799	-108.850	0.259	115.898

7300.000	0.330	299.584	290.260	7297.687	40.248	-109.038	0.037	116.229
7400.000	0.250	12.872	290.405	7397.685	40.685	-109.367	0.350	116.689
7500.000	0.200	17.170	290.609	7497.683	41.177	-109.496	0.060	116.983
7600.000	0.310	121.760	290.637	7597.682	41.100	-109.131	0.405	116.614
7700.000	0.090	150.370	290.582	7697.682	40.951	-109.054	0.225	116.489
7725.000	0.240	48.480	290.601	7722.682	40.969	-108.993	0.115	116.439

