

**GyroTracer Directional:**

Date: 10/20/2017  
 Operator : Brandon McKnight  
 API: 05-123-19697  
 Well: Hingley Farms 32-18  
 Field : Crestone Peak Resources  
 Tool Type And Number: 1213  
 Bottom Depth : 8200.00  
 Latitude : 40.05  
 Longitude : 104.93  
 Grid Offset : 0.00

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

Northing: 0.00      Easting: 0.00      Altitude: 5084.00

**Description:**

*Azimuth measured in degrees and referenced to True North*

*Inclination measured from Vertical*

*Length measured in feet*

*Temperature measured in Fahrenheit degrees*

Start Time: 10/20/2017 14:36

End Time: 10/20/2017 15:50

Depth	Inclination	Azimuth	Closure Direction	True Depth	Coordinates		Dogleg Severity	Closure Distance	Temp
					+N/-S	+E/-W			
0.00	0.00	0.00	0.00	-5084.00	0.00	0.00	0.00	0.00	0.00
100.00	0.55	104.17	152.63	-4984.00	-0.85	0.44	0.55	0.96	88.95
200.00	0.58	84.22	126.31	-4884.00	-0.78	1.06	0.19	1.31	88.27
300.00	0.20	45.87	121.10	-4784.01	-0.98	1.63	0.49	1.90	87.77
400.00	0.45	62.77	112.22	-4684.01	-0.76	1.87	0.31	2.02	87.23
500.00	0.66	315.85	104.05	-4584.01	-0.41	1.62	0.93	1.67	86.72
600.00	0.33	309.85	82.15	-4484.01	0.19	1.37	0.39	1.38	86.24
700.00	0.46	198.75	93.42	-4384.02	-0.07	1.22	0.73	1.22	85.82
800.00	1.13	39.57	87.49	-4284.04	0.12	2.83	1.69	2.83	85.43
900.00	1.66	41.30	57.86	-4184.07	2.18	3.47	0.74	4.10	85.08
1000.00	2.56	94.93	82.28	-4084.13	0.46	3.36	2.06	3.39	84.76
1100.00	2.25	294.22	106.39	-3984.22	-1.72	5.86	4.78	6.10	84.50
1200.00	2.69	359.28	62.38	-3884.33	2.01	3.84	2.12	4.34	84.33
1300.00	2.77	262.55	9.74	-3784.43	4.50	0.77	4.10	4.56	84.17
1400.00	2.46	18.82	1.51	-3684.52	7.38	0.19	4.78	7.39	84.21
1500.00	2.39	69.16	11.82	-3584.62	10.91	2.28	2.04	11.15	84.30
1600.00	2.44	242.07	351.59	-3484.72	8.17	-1.21	3.50	8.26	84.44
1700.00	2.19	231.22	320.97	-3384.81	5.22	-4.23	0.58	6.72	84.63
1800.00	2.48	318.42	299.02	-3284.89	4.03	-7.27	3.31	8.31	84.87
1900.00	1.83	15.33	307.75	-3184.95	6.83	-8.82	2.22	11.16	85.13
2000.00	2.12	300.98	307.91	-3085.01	8.84	-11.35	1.99	14.38	85.46
2100.00	1.78	275.64	304.00	-2985.08	9.94	-14.73	1.00	17.77	85.85
2200.00	1.88	269.94	298.23	-2885.13	9.58	-17.85	0.19	20.26	90.40
2300.00	1.74	130.94	296.85	-2785.16	9.03	-17.83	3.28	19.99	90.85
2400.00	1.93	137.73	293.51	-2685.21	6.89	-15.83	0.37	17.26	91.35
2500.00	1.89	170.58	285.12	-2585.25	4.16	-15.40	0.97	15.95	91.95
2600.00	1.45	188.44	274.96	-2485.29	1.29	-14.89	0.68	14.94	92.60
2700.00	1.32	180.74	265.73	-2385.32	-1.13	-15.17	0.17	15.21	93.31
2800.00	1.20	343.67	262.73	-2285.34	-1.98	-15.52	2.42	15.65	94.15
2900.00	0.50	76.90	262.86	-2185.34	-1.98	-15.84	1.32	15.96	94.98

3000.00	0.89	161.76	262.01	-2085.36	-2.33	-16.61	0.97	16.77	95.90
3100.00	1.64	304.82	262.58	-1985.38	-2.26	-17.39	2.48	17.53	96.93
3200.00	1.17	306.67	269.80	-1885.41	-0.07	-18.38	0.49	18.38	97.98
3300.00	0.88	296.25	272.28	-1785.43	0.79	-19.76	0.42	19.78	107.67
3400.00	0.90	189.87	273.15	-1685.44	1.09	-19.85	1.43	19.88	108.65
3500.00	1.12	190.53	272.57	-1585.47	0.96	-21.37	0.69	21.39	109.68
3600.00	1.28	237.60	267.45	-1485.50	-1.00	-22.48	0.93	22.50	110.66
3700.00	0.79	227.58	264.54	-1385.51	-2.26	-23.61	0.57	23.72	111.75
3800.00	0.63	190.66	262.45	-1285.52	-3.25	-24.49	0.47	24.70	112.95
3900.00	1.10	70.94	262.03	-1185.54	-3.29	-23.52	1.67	23.74	114.13
4000.00	0.77	222.14	260.76	-1085.55	-4.03	-24.77	1.78	25.10	115.45
4100.00	0.67	204.73	258.78	-985.56	-5.04	-25.42	0.25	25.92	116.83
4200.00	0.92	217.55	256.99	-885.57	-6.11	-26.46	0.22	27.15	118.39
4300.00	1.06	179.11	255.06	-785.59	-7.30	-27.34	0.67	28.29	119.81
4400.00	1.05	173.03	252.74	-685.60	-8.62	-27.73	0.27	29.04	131.82
4500.00	1.30	191.07	249.72	-585.62	-10.42	-28.21	0.37	30.07	132.88
4600.00	1.44	38.71	249.11	-485.64	-10.42	-27.28	2.55	29.20	133.96
4700.00	1.85	328.45	250.94	-385.68	-9.76	-28.25	1.75	29.88	135.19
4800.00	1.86	246.93	253.46	-285.75	-9.06	-30.50	2.53	31.82	136.41
4900.00	1.57	263.99	252.57	-185.79	-10.35	-32.96	0.82	34.55	137.68
5000.00	1.04	149.37	251.28	-85.82	-10.90	-32.17	2.19	33.96	139.03
5100.00	0.46	148.66	250.72	14.18	-11.04	-31.57	0.53	33.44	140.39
5200.00	0.26	137.74	250.64	114.17	-10.96	-31.20	0.17	33.07	141.85
5300.00	0.48	332.38	251.20	214.17	-10.49	-30.81	0.77	32.55	143.31
5400.00	0.74	281.97	253.16	314.16	-9.58	-31.67	0.57	33.09	144.83
5500.00	0.82	317.93	255.02	414.15	-8.82	-32.94	0.49	34.10	157.70
5600.00	0.54	12.33	257.05	514.14	-7.61	-33.08	0.62	33.94	158.75
5700.00	0.72	31.64	258.86	614.13	-6.44	-32.70	0.31	33.32	159.91
5800.00	0.51	25.60	260.25	714.13	-5.56	-32.35	0.29	32.82	161.22
5900.00	0.70	63.70	261.06	814.12	-4.93	-31.33	0.29	31.72	162.39
6000.00	1.05	93.12	261.67	914.11	-4.38	-29.92	0.55	30.23	163.74
6100.00	1.23	94.61	262.71	1014.09	-3.64	-28.41	0.20	28.64	164.99
6200.00	1.22	14.11	265.38	1114.07	-2.25	-27.79	1.60	27.88	166.50
6300.00	1.38	162.53	266.95	1214.05	-1.49	-27.98	2.52	28.02	167.99
6400.00	1.49	191.37	261.43	1314.01	-4.20	-27.91	0.69	28.23	169.50
6500.00	0.67	98.43	260.89	1413.99	-4.54	-28.28	1.82	28.64	171.18
6600.00	0.72	179.87	262.40	1513.98	-3.81	-28.55	1.08	28.80	184.81
6700.00	0.11	290.18	262.32	1613.98	-3.95	-29.31	0.59	29.57	186.04
6800.00	0.57	188.00	261.82	1713.98	-4.27	-29.68	0.69	29.98	187.37
6900.00	0.18	67.45	260.98	1813.98	-4.70	-29.59	0.58	29.96	188.70
7000.00	0.21	38.95	261.60	1913.97	-4.31	-29.16	0.11	29.47	190.10
7100.00	0.32	40.03	262.32	2013.97	-3.87	-28.69	0.11	28.95	191.42
7200.00	0.38	46.80	263.27	2113.97	-3.33	-28.21	0.12	28.41	193.10
7300.00	0.41	36.64	264.18	2213.97	-2.82	-27.72	0.05	27.86	194.73
7400.00	0.67	48.39	265.06	2313.96	-2.32	-26.82	0.28	26.92	196.23
7500.00	0.80	37.65	266.38	2413.95	-1.63	-25.86	0.22	25.91	198.15
7600.00	1.76	349.84	270.45	2513.93	0.20	-25.08	1.37	25.09	199.97
7700.00	2.43	349.29	280.25	2613.83	4.53	-25.03	0.64	25.43	215.60
7800.00	1.50	59.87	286.37	2713.78	7.02	-23.90	2.35	24.91	217.20
7900.00	1.13	265.68	286.66	2813.76	7.38	-24.67	2.62	25.75	218.73
8000.00	0.81	24.28	287.55	2913.75	7.74	-24.47	1.59	25.67	219.89
8100.00	0.23	232.94	287.51	3013.75	7.54	-23.91	1.04	25.07	221.79
8200.00	0.29	145.49	287.16	3113.75	7.50	-24.30	0.46	25.44	223.45