

GyroTracer Directional:

Date: 1/16/2019
 Operator : Adrian Bruner
 API : 05-123-32820
 Well Name : **Easton G 12-20D**
 Field : Noble Energy Inc
 Tool Number: 1717
 Bottom Depth : 6900.00
 Total Well Depth: 7462.00
 Latitude : 40.33012 N
 Longitude : 104.61697 W
 Grid Offset : 0.57
 Datum: NAD 83

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

Northing: 0.00 Easting: 0.00 GLE: 4760.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Lat/Long/Elevation obtained by handheld GPS at wellhead. Device error ± 9 Feet

RKB = Ground Level Elevation

Start Time: 1/14/2019 10:28

End Time: 1/14/2019 11:28

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	0.190	204.162	204.162	100.000	-0.151	-0.068	0.057	0.166
200.000	0.072	242.175	209.959	200.000	-0.332	-0.191	0.042	0.383
300.000	0.201	138.138	194.785	299.999	-0.492	-0.130	0.069	0.509
400.000	0.245	146.393	172.487	399.999	-0.801	0.106	0.016	0.807
500.000	0.119	150.692	165.588	499.998	-1.069	0.275	0.038	1.104
600.000	0.318	173.223	165.982	599.997	-1.435	0.358	0.064	1.479
700.000	0.254	178.779	168.425	699.996	-1.932	0.396	0.021	1.973
800.000	1.643	183.649	175.069	799.980	-3.585	0.309	0.417	3.598
900.000	4.111	168.510	173.763	899.847	-8.529	0.932	0.384	8.580
1000.000	6.280	179.523	174.482	999.433	-17.512	1.692	0.713	17.594
1100.000	8.194	165.512	173.281	1098.639	-29.883	3.520	0.777	30.090
1200.000	10.126	169.472	171.351	1197.360	-45.427	6.910	0.609	45.949
1300.000	12.966	171.122	171.062	1295.327	-65.158	10.248	0.858	65.959
1400.000	14.810	166.831	170.468	1392.402	-88.689	14.892	0.633	89.931
1500.000	15.540	166.094	169.564	1488.915	-114.137	21.023	0.227	116.057
1600.000	16.017	166.122	168.908	1585.146	-140.534	27.551	0.143	143.209
1700.000	16.311	167.033	168.529	1681.193	-167.612	34.012	0.058	171.028
1800.000	15.793	173.228	168.745	1777.301	-194.812	38.768	0.537	198.632
1900.000	15.980	173.184	169.285	1873.482	-221.993	42.006	0.056	225.932

2000.000	15.750	169.406	169.503	1969.675	-249.002	46.135	0.317	253.240
2100.000	16.874	166.752	169.357	2065.650	-276.471	51.956	0.405	281.311
2200.000	17.140	167.621	169.153	2161.277	-304.991	58.441	0.110	310.540
2300.000	16.300	167.128	169.002	2257.048	-333.065	64.727	0.128	339.296
2400.000	16.339	167.135	168.859	2353.019	-360.459	70.985	0.012	367.382
2500.000	17.130	170.051	168.842	2448.785	-388.678	76.661	0.346	396.166
2600.000	17.152	169.065	168.892	2544.343	-417.661	82.003	0.087	425.635
2700.000	17.690	168.876	168.897	2639.756	-447.047	87.731	0.162	455.574
2800.000	18.535	169.394	168.913	2734.800	-477.578	93.588	0.258	486.662
2900.000	18.530	168.342	168.910	2829.615	-508.763	99.724	0.050	518.445
3000.000	17.038	166.748	168.836	2924.834	-538.588	106.294	0.471	548.976
3100.000	16.900	166.889	168.734	3020.480	-567.004	112.949	0.043	578.145
3200.000	15.530	167.132	168.654	3116.500	-594.212	119.228	0.412	606.056
3300.000	14.705	168.904	168.627	3213.039	-619.719	124.652	0.142	632.131
3400.000	15.110	168.923	168.638	3309.673	-644.965	129.599	0.122	657.857
3500.000	15.442	170.891	168.688	3406.140	-670.901	134.211	0.185	684.193
3600.000	15.668	173.429	168.819	3502.479	-697.461	137.864	0.215	710.956
3700.000	15.430	167.627	168.882	3598.825	-723.871	142.260	0.236	737.718
3800.000	17.390	166.588	168.815	3694.747	-751.404	148.577	0.595	765.953
3900.000	18.482	168.084	168.759	3789.886	-781.450	155.316	0.356	796.736
4000.000	18.584	168.565	168.742	3884.700	-812.577	161.748	0.055	828.519
4100.000	18.226	169.532	168.753	3979.585	-843.574	167.749	0.071	860.091
4200.000	16.917	172.354	168.826	4074.919	-873.374	172.526	0.234	890.251
4300.000	17.567	174.697	168.978	4170.426	-902.821	175.857	0.285	919.789
4400.000	17.272	178.582	169.218	4265.843	-932.689	177.619	0.360	949.451
4500.000	17.044	175.465	169.453	4361.394	-962.140	179.145	0.142	978.676
4600.000	16.891	174.751	169.616	4457.041	-991.216	181.633	0.039	1007.720
4700.000	17.149	171.080	169.709	4552.664	-1020.249	185.248	0.166	1036.930
4800.000	14.980	171.580	169.751	4648.754	-1047.601	189.427	0.326	1064.590
4900.000	15.451	167.636	169.746	4745.251	-1073.399	194.172	0.171	1090.820
5000.000	15.821	169.772	169.722	4841.551	-1099.826	199.445	0.103	1117.763
5100.000	14.145	168.615	169.710	4938.148	-1125.221	204.278	0.255	1143.613
5200.000	14.340	166.863	169.669	5035.074	-1149.259	209.504	0.071	1168.199
5300.000	12.626	167.470	169.619	5132.315	-1171.990	214.690	0.258	1191.491
5400.000	10.166	162.581	169.549	5230.338	-1191.082	219.704	0.396	1211.176
5500.000	8.742	163.632	169.462	5328.977	-1206.795	224.488	0.215	1227.497
5600.000	6.760	164.101	169.401	5428.059	-1219.748	228.242	0.297	1240.919
5700.000	5.964	166.248	169.363	5527.442	-1230.455	231.089	0.125	1251.967
5800.000	4.039	160.034	169.325	5627.057	-1238.812	233.527	0.300	1260.631
5900.000	2.810	147.896	169.258	5726.878	-1244.198	236.033	0.213	1266.389
6000.000	2.287	143.927	169.179	5826.779	-1247.888	238.510	0.083	1270.476
6100.000	1.317	120.385	169.102	5926.730	-1250.082	240.676	0.180	1273.039
6200.000	0.960	77.586	169.026	6026.711	-1250.483	242.486	0.134	1273.777
6300.000	0.813	36.602	168.965	6126.700	-1249.733	243.727	0.095	1273.278
6400.000	1.301	355.457	168.935	6226.684	-1248.032	244.060	0.131	1271.672
6500.000	1.213	302.814	168.964	6326.663	-1246.327	243.081	0.168	1269.810
6600.000	0.749	297.714	169.021	6426.649	-1245.449	241.612	0.071	1268.669
6700.000	1.099	286.050	169.083	6526.636	-1244.880	240.112	0.059	1267.825

6800.000	1.205	258.641	169.169	6626.616	-1244.822	238.160	0.083	1267.400
6900.000	1.570	256.574	169.278	6726.587	-1245.347	235.796	0.055	1267.474