

GyroTracer Directional:

Date: 10/15/2018
 Operator : Adrian Bruner
 API: 05-123-27297
 Well Name: **Monfort E 30-15**
 Field : Noble Energy Inc
 Tool Type And Number: 1717
 Bottom Depth : 7150.00
 Total Well Depth: 7377.00
 Latitude : 40.455532 N
 Longitude : 104.701975 W
 Grid Offset : 0.52

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

Northing: 0.00 Easting: 0.00 Altitude: 4711.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/15/2018 14:00

End Time: 10/15/2018 15:54

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	0.700	122.418	105.173	99.990	-0.320	1.180	0.700	1.223
200.000	0.676	130.242	113.375	199.981	-0.997	2.306	0.095	2.513
300.000	0.641	131.035	115.253	299.973	-1.586	3.362	0.057	3.718
400.000	0.549	134.077	117.276	399.967	-2.213	4.292	0.300	4.829
500.000	0.992	157.552	122.933	499.957	-3.327	5.137	0.504	6.121
600.000	0.878	155.162	128.598	599.944	-4.718	5.910	0.145	7.562
700.000	1.148	147.219	132.446	699.928	-6.222	6.803	0.234	9.220
800.000	1.085	225.145	138.004	799.917	-7.510	6.761	1.322	10.105
900.000	1.667	239.326	150.289	899.893	-8.638	4.929	0.624	9.946
1000.000	1.452	249.867	163.803	999.864	-9.622	2.795	0.385	10.020
1100.000	1.631	251.047	177.630	1099.831	-10.601	0.439	0.315	10.610
1200.000	1.714	244.159	188.546	1199.795	-12.019	-1.806	0.180	12.154
1300.000	3.467	235.187	200.306	1299.686	-14.708	-5.442	1.437	15.683
1400.000	4.995	216.946	207.007	1399.412	-20.207	-10.299	2.089	22.680
1500.000	6.872	202.296	207.569	1498.863	-29.318	-15.307	2.376	33.074
1600.000	8.319	201.412	205.789	1597.986	-41.604	-20.102	1.444	46.206
1700.000	9.959	203.015	204.873	1696.709	-56.332	-26.116	1.674	62.091
1800.000	11.380	207.125	205.230	1794.967	-72.957	-34.377	1.608	80.650
1900.000	13.502	205.327	205.305	1892.537	-92.688	-43.823	2.155	102.526
2000.000	13.614	207.185	205.457	1989.719	-113.854	-54.201	0.454	126.097
2100.000	13.680	208.226	205.816	2086.902	-134.712	-65.169	0.252	149.647
2200.000	13.595	212.634	206.356	2184.046	-155.300	-76.943	1.047	173.316
2300.000	13.084	213.350	207.097	2281.329	-174.790	-89.434	0.542	196.342

2400.000	12.840	213.579	207.769	2378.841	-193.226	-101.741	0.244	218.374
2500.000	12.914	212.869	208.319	2476.292	-211.895	-114.185	0.185	240.703
2600.000	12.965	211.188	208.662	2573.711	-230.966	-126.252	0.377	263.220
2700.000	13.950	207.465	208.761	2670.981	-251.075	-137.805	1.320	286.406
2800.000	14.090	207.537	208.656	2767.992	-272.615	-148.980	0.136	310.667
2900.000	13.779	208.207	208.590	2865.056	-293.903	-160.173	0.350	334.715
3000.000	14.175	210.361	208.640	2962.113	-314.895	-171.974	0.652	358.795
3100.000	14.570	210.493	208.757	3058.990	-336.271	-184.535	0.402	383.577
3200.000	13.043	214.351	208.952	3156.128	-356.377	-197.156	1.790	407.277
3300.000	12.960	215.198	209.265	3253.570	-374.796	-210.029	0.198	429.633
3400.000	12.654	212.479	209.494	3351.125	-393.018	-222.303	0.686	451.532
3500.000	12.930	211.925	209.624	3448.636	-411.766	-234.143	0.296	473.681
3600.000	12.918	210.862	209.680	3546.123	-430.887	-245.575	0.227	495.954
3700.000	13.920	211.943	209.758	3643.399	-450.661	-257.657	1.045	519.117
3800.000	14.500	212.005	209.864	3740.338	-471.457	-270.701	0.578	543.645
3900.000	14.674	211.347	209.929	3837.149	-492.853	-283.731	0.234	568.689
4000.000	14.535	210.663	209.985	3933.856	-514.613	-296.930	0.233	594.133
4100.000	14.570	209.015	209.987	4030.617	-536.469	-309.563	0.427	619.377
4200.000	14.273	208.136	209.925	4127.485	-558.310	-321.370	0.364	644.196
4300.000	14.353	208.704	209.874	4224.424	-579.884	-333.092	0.164	668.742
4400.000	13.743	210.601	209.864	4321.485	-600.802	-344.977	0.784	692.800
4500.000	14.060	210.724	209.878	4418.591	-621.425	-357.024	0.349	716.683
4600.000	13.350	208.511	209.886	4515.554	-642.574	-369.290	0.888	741.131
4700.000	13.630	209.334	209.848	4612.765	-663.158	-380.533	0.338	764.581
4800.000	13.160	211.713	209.877	4710.055	-683.011	-392.381	0.726	787.697
4900.000	12.150	209.165	209.913	4807.554	-702.011	-403.894	1.160	809.908
5000.000	11.340	208.871	209.880	4905.454	-719.914	-413.633	0.805	830.282
5100.000	10.026	214.378	209.912	5003.707	-735.788	-423.303	1.668	848.864
5200.000	6.061	217.337	210.023	5102.676	-747.161	-431.778	3.962	862.949
5300.000	4.760	219.105	210.118	5202.197	-754.778	-437.850	1.309	872.584
5400.000	3.198	215.834	210.169	5301.961	-760.239	-441.912	1.575	879.346
5500.000	1.766	205.802	210.162	5401.879	-763.673	-443.783	1.457	883.255
5600.000	0.478	277.405	210.170	5501.867	-764.795	-444.577	1.749	884.624
5700.000	0.905	298.778	210.242	5601.860	-764.244	-445.544	0.550	884.635
5800.000	0.481	305.046	210.324	5701.852	-763.581	-446.630	0.157	884.610
5900.000	0.431	323.618	210.383	5801.847	-762.863	-447.257	0.491	884.307
6000.000	0.686	346.010	210.431	5901.843	-762.179	-447.718	0.337	883.950
6100.000	0.860	262.871	210.471	6001.840	-761.797	-448.222	0.795	883.877
6200.000	0.487	105.093	210.485	6101.838	-761.848	-448.500	0.882	884.062
6300.000	0.057	292.752	210.491	6201.837	-762.082	-448.739	0.351	884.385
6400.000	0.494	70.713	210.493	6301.836	-762.229	-448.862	0.533	884.573
6500.000	0.411	137.862	210.481	6401.834	-762.489	-448.796	0.224	884.763
6600.000	0.193	80.454	210.463	6501.833	-762.742	-448.631	0.200	884.899
6700.000	0.603	234.448	210.449	6601.832	-762.876	-448.458	0.811	884.926
6800.000	0.159	197.239	210.433	6701.831	-763.221	-448.370	0.625	885.179
6900.000	0.151	234.635	210.421	6801.829	-763.533	-448.340	0.330	885.433
7000.000	0.121	75.410	210.408	6901.828	-763.773	-448.240	0.101	885.589
7100.000	0.388	108.006	210.413	7001.827	-763.800	-448.358	0.213	885.672
7150.000	0.070	123.760	210.409	7054.546	-763.842	-448.305	0.143	885.682