

GyroTracer Directional:

Date: 10/23/2018
 Operator : Adrian Bruner
 API: 05-123-20203
 Well Name: **Maury O 13-6**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7150.00
 Total Well Depth: 7435.00
 Latitude : 40.313303 N
 Longitude : 104.840864 W
 Grid Offset : 0.42

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

Northing: 0.00 Easting: 0.00 Altitude: 4785.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/23/2018 13:17

End Time: 10/23/2018 14:27

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	0.570	347.877	347.905	99.990	0.980	-0.210	0.570	1.002
200.000	0.235	327.418	347.648	199.985	1.693	-0.371	0.371	1.733
300.000	0.472	317.112	348.520	299.982	2.225	-0.452	0.382	2.270
400.000	0.311	317.965	344.626	399.980	2.770	-0.762	0.196	2.872
500.000	0.760	302.266	334.934	499.974	3.366	-1.575	0.345	3.716
600.000	0.330	284.325	326.881	599.967	3.867	-2.523	0.457	4.617
700.000	0.915	284.303	322.297	699.960	4.449	-3.439	0.602	5.624
800.000	0.916	293.373	317.566	799.954	4.860	-4.443	0.192	6.585
900.000	0.736	295.430	313.620	899.947	5.251	-5.510	0.017	7.612
1000.000	0.472	269.226	309.870	999.939	5.570	-6.669	0.406	8.690
1100.000	0.768	276.787	307.697	1099.931	6.015	-7.784	0.361	9.837
1200.000	0.630	289.118	305.609	1199.923	6.357	-8.876	0.263	10.918
1300.000	0.676	309.825	304.367	1299.916	6.779	-9.912	0.331	12.008
1400.000	0.436	297.188	303.076	1399.908	7.191	-11.041	0.317	13.176
1500.000	0.393	301.203	302.962	1499.902	7.746	-11.945	0.022	14.236
1600.000	0.376	278.687	302.555	1599.896	8.178	-12.810	0.171	15.197
1700.000	1.040	309.556	302.282	1699.892	8.589	-13.595	0.592	16.081
1800.000	0.579	342.855	302.377	1799.887	9.071	-14.306	0.301	16.940
1900.000	0.580	337.339	303.574	1899.882	9.845	-14.832	0.053	17.802
2000.000	0.635	346.240	304.872	1999.876	10.695	-15.347	0.139	18.706
2100.000	1.160	322.652	307.068	2099.861	12.169	-16.108	0.593	20.188
2200.000	1.501	316.479	308.982	2199.842	13.831	-17.091	0.378	21.986
2300.000	1.274	329.703	309.557	2299.821	15.270	-18.486	0.419	23.977

2400.000	0.862	291.265	309.094	2399.800	16.345	-20.117	0.824	25.920
2500.000	1.130	264.888	307.217	2499.780	16.738	-22.038	0.512	27.674
2600.000	1.006	267.011	305.370	2599.758	17.074	-24.052	0.094	29.496
2700.000	1.268	270.948	303.736	2699.739	17.317	-25.930	0.263	31.181
2800.000	0.797	304.670	302.477	2799.724	17.556	-27.581	0.674	32.694
2900.000	0.864	280.217	301.985	2899.707	18.266	-29.249	0.308	34.484
3000.000	0.878	304.617	301.692	2999.690	19.045	-30.847	0.363	36.252
3100.000	1.333	271.160	300.981	3099.669	19.657	-32.739	0.738	38.187
3200.000	1.766	273.071	299.564	3199.643	19.840	-34.975	0.354	40.211
3300.000	1.516	261.961	297.095	3299.601	19.326	-37.774	0.407	42.431
3400.000	2.014	254.170	294.477	3399.552	18.559	-40.767	0.630	44.792
3500.000	1.620	262.267	291.568	3499.492	17.393	-44.001	0.450	47.314
3600.000	2.214	260.736	289.676	3599.435	16.919	-47.315	0.566	50.249
3700.000	1.831	248.446	287.674	3699.384	16.034	-50.321	0.525	52.814
3800.000	1.400	243.809	285.456	3799.345	14.565	-52.676	0.457	54.653
3900.000	1.661	220.956	283.340	3899.306	13.019	-54.905	0.684	56.427
4000.000	1.835	242.610	281.436	3999.272	11.533	-57.016	0.749	58.171
4100.000	1.051	247.928	279.896	4099.244	10.280	-58.926	0.788	59.816
4200.000	1.616	248.888	278.828	4199.222	9.440	-60.786	0.594	61.514
4300.000	1.238	256.884	277.668	4299.197	8.443	-62.711	0.304	63.277
4400.000	1.265	244.014	276.684	4399.168	7.607	-64.912	0.344	65.356
4500.000	1.246	226.769	275.648	4499.141	6.623	-66.966	0.358	67.292
4600.000	1.062	221.036	274.665	4599.120	5.601	-68.634	0.220	68.862
4700.000	0.960	256.659	273.883	4699.106	4.751	-69.994	0.637	70.155
4800.000	0.530	240.019	273.141	4799.090	3.924	-71.508	0.461	71.616
4900.000	1.072	234.353	272.678	4899.077	3.413	-72.960	0.574	73.040
5000.000	0.805	227.178	272.182	4999.064	2.834	-74.386	0.194	74.440
5100.000	0.967	255.291	271.670	5099.052	2.207	-75.724	0.443	75.757
5200.000	1.421	235.757	270.895	5199.034	1.206	-77.234	0.575	77.244
5300.000	1.242	238.666	269.982	5299.016	-0.025	-78.621	0.127	78.621
5400.000	1.305	215.617	268.952	5398.993	-1.466	-80.139	0.501	80.153
5500.000	0.842	218.750	267.838	5498.969	-3.076	-81.494	0.589	81.552
5600.000	0.790	235.086	267.087	5598.957	-4.191	-82.351	0.256	82.458
5700.000	0.327	156.995	266.561	5698.952	-4.967	-82.667	0.830	82.817
5800.000	0.453	196.527	266.070	5798.947	-5.706	-83.050	0.346	83.246
5900.000	0.949	259.101	265.788	5898.942	-6.173	-83.816	0.885	84.043
6000.000	1.093	255.491	265.574	5998.933	-6.580	-85.007	0.141	85.261
6100.000	0.539	247.539	265.355	6098.921	-7.018	-86.389	0.416	86.674
6200.000	0.883	246.298	265.234	6198.906	-7.335	-87.974	0.325	88.279
6300.000	1.181	239.011	265.065	6298.891	-7.738	-89.602	0.444	89.936
6400.000	1.370	246.785	264.637	6398.876	-8.548	-91.058	0.246	91.458
6500.000	1.185	231.646	264.196	6498.858	-9.418	-92.645	0.318	93.122
6600.000	1.064	226.446	263.639	6598.839	-10.502	-94.206	0.225	94.789
6700.000	1.457	270.403	263.385	6698.819	-11.126	-95.946	1.155	96.589
6800.000	1.153	285.747	263.447	6798.804	-11.206	-97.546	0.541	98.187
6900.000	1.177	273.794	263.806	6898.785	-10.793	-99.441	0.294	100.025
7000.000	0.883	258.314	264.006	6998.770	-10.616	-101.103	0.406	101.658
7100.000	0.511	287.055	264.043	7098.763	-10.662	-102.180	0.320	102.734
7150.000	0.520	249.150	264.108	7149.857	-10.617	-102.877	0.236	103.424