

GyroTracer Directional:

Date: 10/18/2018
 Operator : Adrian Bruner
 API: 05-123-33846
 Well Name: **Rhino D 27-19D**
 Field : Noble Energy Inc
 Tool Type And Number: 1717
 Bottom Depth : 7300.00
 Total Well Depth: 7557.00
 Latitude : 40.19623 N
 Longitude : 104.53808 W
 Grid Offset : 0.62

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

Northing: 0.00 Easting: 0.00 Altitude: 4866.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/18/2018 7:16

End Time: 10/18/2018 8:56

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	0.460	54.000	46.005	100.000	0.560	0.580	0.460	0.806
200.000	0.495	43.860	46.822	199.997	1.081	1.152	0.107	1.580
300.000	0.413	24.555	46.079	299.994	1.632	1.695	0.148	2.353
400.000	0.368	52.896	45.335	399.991	2.165	2.191	0.162	3.080
500.000	0.258	99.283	48.154	499.989	2.397	2.676	0.369	3.593
600.000	0.172	96.803	51.644	599.988	2.384	3.012	0.130	3.842
700.000	0.326	105.486	58.253	699.987	2.194	3.546	0.157	4.170
800.000	0.243	125.783	64.030	799.985	1.979	4.063	0.184	4.519
900.000	0.330	330.250	67.585	899.983	1.845	4.472	0.647	4.837
1000.000	2.358	304.852	37.225	999.946	3.669	2.787	2.046	4.607
1100.000	3.855	313.553	350.428	1099.788	7.491	-1.263	1.489	7.596
1200.000	5.913	315.041	331.209	1199.422	13.374	-7.350	2.108	15.261
1300.000	8.155	313.562	323.669	1298.635	22.103	-16.254	2.240	27.436
1400.000	10.250	307.108	318.736	1397.352	32.372	-28.403	2.338	43.066
1500.000	11.195	309.433	315.413	1495.589	43.807	-43.180	1.046	61.511
1600.000	13.398	314.154	314.485	1593.314	57.921	-58.972	2.423	82.659
1700.000	14.800	315.115	314.596	1690.254	75.266	-76.334	1.392	107.200
1800.000	16.148	314.125	314.575	1786.666	93.863	-95.267	1.378	133.738
1900.000	19.184	314.597	314.520	1881.970	114.967	-116.912	3.034	163.969
2000.000	20.110	314.687	314.551	1976.110	138.693	-140.886	0.912	197.699
2100.000	20.908	312.613	314.392	2069.801	162.748	-166.240	1.080	232.643
2200.000	21.720	312.943	314.173	2162.999	187.363	-192.851	0.829	268.880
2300.000	24.783	313.164	314.032	2254.838	214.360	-221.730	3.057	308.406

2400.000	26.095	312.884	313.921	2344.953	243.993	-253.363	1.346	351.746
2500.000	25.172	312.440	313.769	2435.201	273.106	-285.104	0.900	394.805
2600.000	24.528	313.944	313.687	2526.013	301.614	-315.766	0.900	436.668
2700.000	25.855	316.142	313.822	2616.523	331.781	-345.718	1.601	479.166
2800.000	27.260	315.868	314.016	2706.056	363.873	-376.592	1.403	523.665
2900.000	28.954	313.541	314.043	2794.097	397.006	-410.499	2.024	571.072
3000.000	27.663	313.197	313.989	2881.919	429.835	-445.273	1.322	618.891
3100.000	27.227	311.319	313.884	2970.751	460.831	-479.150	0.960	664.794
3200.000	26.714	310.218	313.659	3059.965	490.083	-513.573	0.728	709.886
3300.000	25.717	311.439	313.488	3149.949	518.527	-546.640	1.137	753.449
3400.000	24.781	311.355	313.374	3240.128	547.100	-579.062	0.910	796.637
3500.000	23.718	314.399	313.317	3331.166	574.895	-609.702	1.619	837.998
3600.000	23.530	318.473	313.436	3422.800	603.658	-637.539	1.653	877.985
3700.000	24.102	320.443	313.717	3514.276	634.521	-663.602	0.981	918.142
3800.000	24.520	319.514	313.990	3605.397	666.117	-690.031	0.584	959.091
3900.000	24.857	320.345	314.214	3696.191	697.915	-717.329	0.481	1000.822
4000.000	25.238	326.078	314.562	3786.994	731.310	-742.585	2.457	1042.231
4100.000	26.642	322.707	314.998	3876.666	767.696	-767.751	1.998	1085.725
4200.000	26.882	322.218	315.289	3965.882	803.435	-795.378	0.326	1130.546
4300.000	24.251	323.107	315.569	4055.923	838.105	-821.613	2.678	1173.655
4400.000	24.434	322.410	315.814	4147.123	870.795	-846.387	0.330	1214.354
4500.000	27.485	323.932	316.058	4236.748	906.069	-873.210	3.145	1258.355
4600.000	25.570	327.209	316.373	4326.539	942.294	-898.172	2.390	1301.779
4700.000	26.436	326.581	316.714	4416.363	979.090	-922.200	0.864	1345.017
4800.000	25.693	327.379	317.031	4506.177	1015.876	-946.285	0.791	1388.329
4900.000	24.164	323.928	317.302	4596.686	1051.185	-969.939	2.117	1430.305
5000.000	22.819	325.598	317.487	4688.534	1083.246	-993.072	1.496	1469.562
5100.000	24.473	325.839	317.705	4780.331	1116.041	-1015.353	1.679	1508.804
5200.000	24.136	326.074	317.912	4870.757	1151.128	-1039.675	0.361	1551.135
5300.000	20.930	325.543	318.101	4963.361	1182.343	-1060.822	3.171	1588.482
5400.000	22.300	324.131	318.257	5056.332	1212.510	-1081.932	1.482	1625.041
5500.000	20.781	322.957	318.369	5149.051	1242.502	-1104.358	1.584	1662.353
5600.000	16.460	322.456	318.448	5244.042	1267.293	-1123.253	4.384	1693.437
5700.000	13.575	323.906	318.514	5340.530	1288.176	-1139.107	2.891	1719.582
5800.000	11.040	326.590	318.604	5438.133	1306.125	-1151.334	2.595	1741.129
5900.000	9.030	331.472	318.697	5536.646	1320.691	-1160.375	2.200	1758.037
6000.000	7.774	342.787	318.835	5635.603	1333.800	-1166.222	2.077	1771.749
6100.000	5.940	351.063	319.027	5734.887	1345.472	-1168.502	2.096	1782.047
6200.000	3.678	352.150	319.180	5834.490	1354.206	-1169.762	2.264	1789.474
6300.000	2.620	350.281	319.267	5934.333	1359.653	-1170.834	0.922	1794.299
6400.000	1.547	13.213	319.331	6034.283	1362.686	-1170.823	1.248	1796.591
6500.000	2.140	18.210	319.413	6134.233	1365.669	-1169.988	0.603	1798.311
6600.000	3.056	18.456	319.542	6234.129	1369.870	-1168.262	0.816	1800.383
6700.000	1.989	15.604	319.699	6333.979	1374.655	-1165.839	1.119	1802.459
6800.000	1.332	166.063	319.706	6433.965	1374.508	-1165.433	3.199	1802.084
6900.000	1.548	151.726	319.676	6533.933	1372.161	-1164.666	0.395	1799.798
7000.000	2.192	149.458	319.643	6633.884	1369.273	-1163.566	0.631	1796.884
7100.000	1.770	152.196	319.618	6733.833	1366.414	-1162.178	0.535	1793.807
7200.000	1.581	148.981	319.600	6833.794	1363.996	-1160.851	0.194	1791.106
7300.000	0.881	146.549	319.596	6933.771	1362.307	-1159.567	0.434	1788.988