

**GyroTracer Directional:**

Date: 11/6/2018  
 Operator : Adrian Bruner  
 API: 05-123-16443  
 Well Name: **UPRC 29-7C**  
 Field : Noble Energy Inc  
 Tool Type And Number: 1717  
 Bottom Depth : 6600.00  
 Total Well Depth: 7476.00  
 Latitude : 40.37235 N  
 Longitude : 104.80108 W  
 Grid Offset : 0.45

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

Northing: 0.00      Easting: 0.00      Altitude: 4900.00

**Description:**

*Azimuth measured in degrees and referenced to local grid*

*Inclination measured from Vertical*

*Length measured in US survey feet*

Start Time: 11/6/2018 12:37

End Time: 11/6/2018 13:57

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	0.180	285.486	268.152	100.000	-0.010	-0.310	0.180	0.310
200.000	0.251	175.993	242.844	199.999	-0.186	-0.364	0.297	0.409
300.000	0.214	195.809	225.099	299.999	-0.316	-0.317	0.096	0.447
400.000	0.231	281.941	223.657	399.999	-0.451	-0.431	0.321	0.624
500.000	0.299	292.895	236.696	499.998	-0.518	-0.788	0.073	0.943
600.000	0.148	274.755	241.243	599.996	-0.642	-1.170	0.142	1.334
700.000	0.094	215.151	242.634	699.995	-0.801	-1.548	0.135	1.743
800.000	0.206	235.685	243.152	799.994	-0.972	-1.921	0.114	2.153
900.000	0.343	232.540	245.652	899.993	-1.091	-2.410	0.130	2.645
1000.000	0.411	249.146	247.289	999.991	-1.221	-2.917	0.162	3.162
1100.000	0.510	246.306	248.922	1099.988	-1.369	-3.553	0.132	3.808
1200.000	0.434	278.043	250.474	1199.986	-1.490	-4.202	0.167	4.458
1300.000	0.455	268.233	251.515	1299.983	-1.626	-4.865	0.076	5.130
1400.000	0.487	256.753	251.187	1399.981	-1.863	-5.470	0.091	5.778
1500.000	0.378	289.642	252.516	1499.977	-1.977	-6.277	0.259	6.581
1600.000	0.343	269.218	253.719	1599.974	-2.060	-7.054	0.081	7.349
1700.000	0.321	274.435	254.184	1699.970	-2.217	-7.828	0.061	8.136
1800.000	0.449	257.841	254.994	1799.966	-2.314	-8.634	0.116	8.939
1900.000	0.312	254.957	255.452	1899.963	-2.435	-9.384	0.193	9.695
2000.000	0.320	278.176	255.469	1999.961	-2.595	-10.013	0.103	10.344
2100.000	0.234	257.738	255.079	2099.959	-2.785	-10.453	0.130	10.817
2200.000	0.060	73.886	254.500	2199.958	-2.942	-10.608	0.255	11.008
2300.000	0.168	56.272	254.564	2299.957	-2.933	-10.621	0.120	11.019

2400.000	0.493	33.395	256.531	2399.955	-2.496	-10.420	0.437	10.715
2500.000	0.550	33.907	259.887	2499.952	-1.801	-10.095	0.066	10.255
2600.000	0.539	22.240	264.077	2599.949	-1.021	-9.841	0.103	9.894
2700.000	0.425	13.043	268.487	2699.945	-0.258	-9.764	0.077	9.768
2800.000	0.526	11.645	272.866	2799.942	0.487	-9.733	0.055	9.745
2900.000	0.183	15.819	276.686	2899.939	1.152	-9.831	0.347	9.898
3000.000	0.472	266.201	276.728	2999.936	1.234	-10.458	0.733	10.531
3100.000	0.512	273.552	275.277	3099.931	1.061	-11.490	0.104	11.539
3200.000	0.596	253.942	273.918	3199.923	0.867	-12.664	0.235	12.694
3300.000	0.766	255.514	272.277	3299.914	0.554	-13.942	0.209	13.953
3400.000	0.860	260.853	271.130	3399.900	0.307	-15.581	0.075	15.584
3500.000	1.089	266.599	270.391	3499.883	0.119	-17.420	0.241	17.421
3600.000	1.291	273.105	269.728	3599.862	-0.092	-19.441	0.289	19.441
3700.000	1.715	278.637	270.156	3699.832	0.059	-21.853	0.425	21.853
3800.000	1.904	264.157	270.380	3799.789	0.164	-24.736	0.475	24.736
3900.000	2.034	259.600	269.454	3899.733	-0.267	-28.014	0.171	28.015
4000.000	1.746	257.525	268.144	3999.678	-1.012	-31.242	0.118	31.259
4100.000	1.595	272.463	267.059	4099.632	-1.754	-34.135	0.469	34.180
4200.000	1.260	243.287	265.911	4199.603	-2.600	-36.365	0.792	36.458
4300.000	1.473	204.970	263.693	4299.576	-4.194	-37.945	0.920	38.176
4400.000	1.028	213.383	261.546	4399.554	-5.829	-39.220	0.362	39.651
4500.000	0.178	213.445	260.747	4499.550	-6.465	-39.683	0.810	40.206
4600.000	0.218	242.180	260.302	4599.549	-6.831	-39.971	0.096	40.551
4700.000	0.974	232.654	259.791	4699.546	-7.287	-40.465	0.777	41.116
4800.000	1.026	219.346	258.473	4799.531	-8.495	-41.653	0.418	42.511
4900.000	1.074	224.123	257.109	4899.512	-9.847	-43.024	0.101	44.137
5000.000	1.047	233.648	255.965	4999.492	-11.134	-44.538	0.154	45.909
5100.000	1.095	241.731	255.138	5099.472	-12.241	-46.127	0.176	47.723
5200.000	1.018	243.271	254.600	5199.458	-13.095	-47.541	0.052	49.312
5300.000	0.607	248.052	254.360	5299.451	-13.600	-48.576	0.485	50.444
5400.000	0.439	242.391	254.233	5399.446	-13.943	-49.383	0.187	51.314
5500.000	1.146	279.448	254.595	5499.437	-13.850	-50.265	0.758	52.138
5600.000	0.855	310.238	254.697	5599.428	-13.924	-50.888	0.633	52.758
5700.000	0.379	347.959	254.936	5699.422	-13.760	-51.121	0.642	52.940
5800.000	1.238	63.835	255.735	5799.411	-12.886	-50.684	1.212	52.296
5900.000	0.584	321.188	256.239	5899.406	-12.463	-50.891	1.441	52.395
6000.000	0.149	108.679	257.460	5999.393	-11.214	-50.416	0.733	51.649
6100.000	0.422	240.409	258.101	6099.387	-10.624	-50.419	0.741	51.527
6200.000	0.243	5.311	258.898	6199.382	-9.922	-50.562	0.654	51.526
6300.000	0.469	13.174	259.034	6299.378	-9.727	-50.198	0.238	51.132
6400.000	0.658	40.297	260.071	6399.371	-8.747	-49.971	0.377	50.731
6500.000	0.455	132.112	259.675	6499.367	-9.079	-49.837	0.714	50.657
6600.000	0.331	186.437	259.323	6599.365	-9.367	-49.687	0.348	50.562