

**GyroTracer Directional:**

Date: 10/22/2018  
 Operator : Adrian Bruner  
 API: 05-123-13369  
 Well Name: **State Farm 36-11**  
 Field : Noble Energy Inc  
 Tool Type And Number: 1719  
 Bottom Depth : 6900.00  
 Total Well Depth: 7144.00  
 Latitude : 40.360499 N  
 Longitude : 104.604399 W  
 Grid Offset : 0.58

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

Northing: 0.00      Easting: 0.00      Altitude: 4755.00

**Description:**

*Azimuth measured in degrees and referenced to local grid*

*Inclination measured from Vertical*

*Length measured in US survey feet*

Start Time: 10/22/2018 12:26

End Time: 10/22/2018 13:37

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	0.730	272.994	247.865	99.990	-0.480	-1.180	0.730	1.274
200.000	0.227	273.439	250.161	199.986	-0.686	-1.901	0.485	2.021
300.000	0.319	182.170	246.714	299.983	-1.019	-2.367	0.341	2.576
400.000	0.653	174.123	232.024	399.979	-1.910	-2.447	0.356	3.104
500.000	0.294	164.314	221.210	499.974	-2.810	-2.460	0.318	3.735
600.000	0.801	141.544	212.236	599.968	-3.840	-2.422	0.597	4.540
700.000	0.812	171.600	205.685	699.962	-4.816	-2.316	0.453	5.344
800.000	0.657	186.188	201.376	799.956	-5.902	-2.310	0.310	6.338
900.000	0.750	189.794	198.024	899.950	-6.949	-2.261	0.075	7.308
1000.000	0.864	170.613	195.985	999.944	-7.986	-2.288	0.446	8.307
1100.000	0.624	190.795	194.609	1099.939	-8.838	-2.304	0.358	9.133
1200.000	0.179	199.558	192.474	1199.935	-9.612	-2.126	0.515	9.845
1300.000	0.359	201.660	192.135	1299.931	-10.324	-2.220	0.124	10.560
1400.000	0.430	184.678	192.324	1399.928	-11.024	-2.408	0.169	11.284
1500.000	0.491	196.665	193.312	1499.925	-11.696	-2.767	0.168	12.019
1600.000	0.347	239.246	194.289	1599.920	-12.425	-3.164	0.389	12.821
1700.000	0.562	197.287	195.918	1699.914	-13.280	-3.787	0.375	13.809
1800.000	0.541	194.207	197.270	1799.907	-14.165	-4.404	0.172	14.833
1900.000	0.815	212.112	198.895	1899.899	-15.135	-5.180	0.441	15.997
2000.000	0.678	245.832	200.675	1999.890	-16.091	-6.072	0.448	17.198
2100.000	0.764	243.100	203.445	2099.878	-16.890	-7.325	0.115	18.410
2200.000	0.680	247.757	207.077	2199.864	-17.336	-8.862	0.069	19.470
2300.000	1.185	275.320	211.182	2299.847	-17.506	-10.594	0.589	20.462

2400.000	1.153	285.612	215.673	2399.829	-17.322	-12.434	0.346	21.323
2500.000	1.292	281.435	220.188	2499.810	-16.954	-14.322	0.086	22.194
2600.000	1.055	287.241	224.277	2599.789	-16.748	-16.330	0.552	23.391
2700.000	1.151	267.103	228.011	2699.766	-16.556	-18.395	0.474	24.748
2800.000	1.079	272.901	231.334	2799.747	-16.242	-20.298	0.135	25.996
2900.000	0.764	274.225	234.120	2899.731	-15.912	-21.997	0.449	27.149
3000.000	0.987	279.649	236.780	2999.716	-15.453	-23.598	0.274	28.208
3100.000	1.023	283.761	239.464	3099.700	-14.863	-25.196	0.150	29.253
3200.000	1.390	306.140	242.517	3199.680	-14.006	-26.924	0.516	30.349
3300.000	1.302	306.200	245.628	3299.657	-13.041	-28.786	0.046	31.602
3400.000	0.963	302.581	248.338	3399.639	-12.030	-30.288	0.307	32.590
3500.000	1.123	61.150	249.451	3499.629	-11.135	-29.704	1.661	31.723
3600.000	1.069	78.753	248.668	3599.608	-10.849	-27.782	0.333	29.825
3700.000	1.163	126.676	246.032	3699.590	-11.610	-26.115	0.988	28.579
3800.000	1.200	120.188	243.050	3799.569	-12.332	-24.255	0.144	27.210
3900.000	0.899	105.434	240.144	3899.546	-12.771	-22.250	0.396	25.654
4000.000	0.756	121.759	237.238	3999.530	-13.280	-20.636	0.226	24.539
4100.000	0.778	119.735	234.785	4099.521	-13.780	-19.523	0.102	23.896
4200.000	0.557	78.157	233.060	4199.516	-14.056	-18.694	0.356	23.389
4300.000	0.171	19.020	232.120	4299.513	-14.149	-18.188	0.502	23.043
4400.000	0.236	94.681	231.224	4399.512	-14.442	-17.978	0.222	23.060
4500.000	0.135	93.358	230.170	4499.509	-14.795	-17.738	0.261	23.098
4600.000	0.286	147.818	229.136	4599.507	-15.066	-17.414	0.137	23.026
4700.000	0.352	174.449	228.185	4699.503	-15.705	-17.556	0.201	23.555
4800.000	1.037	234.327	227.634	4799.493	-16.722	-18.334	0.900	24.815
4900.000	1.366	227.424	227.865	4899.477	-17.808	-19.684	0.292	26.544
5000.000	1.258	218.695	228.088	4999.459	-18.940	-21.100	0.154	28.353
5100.000	1.453	235.937	228.288	5099.441	-20.074	-22.521	0.533	30.169
5200.000	1.472	228.942	228.539	5199.419	-21.319	-24.130	0.196	32.199
5300.000	0.970	236.991	229.200	5299.393	-22.457	-26.016	0.558	34.368
5400.000	1.166	256.514	230.233	5399.367	-23.355	-28.065	0.353	36.512
5500.000	1.390	242.065	231.166	5499.336	-24.355	-30.255	0.389	38.840
5600.000	2.059	228.242	231.886	5599.305	-25.449	-32.440	0.995	41.231
5700.000	1.277	223.987	231.699	5699.278	-26.943	-34.114	0.285	43.471
5800.000	1.032	219.184	231.444	5799.262	-28.158	-35.329	0.340	45.177
5900.000	0.953	219.965	231.022	5899.251	-29.242	-36.139	0.144	46.488
6000.000	0.379	219.058	230.880	5999.245	-29.932	-36.805	0.541	47.440
6100.000	0.477	211.861	230.869	6099.241	-30.467	-37.448	0.057	48.276
6200.000	0.395	223.580	230.879	6199.237	-30.929	-38.030	0.164	49.019
6300.000	0.429	199.162	230.858	6299.232	-31.518	-38.724	0.346	49.929
6400.000	0.349	206.719	231.084	6399.228	-31.772	-39.354	0.311	50.579
6500.000	0.639	292.672	231.311	6499.225	-31.932	-39.873	0.730	51.083
6600.000	0.350	283.138	231.660	6599.221	-32.052	-40.527	0.087	51.670
6700.000	0.054	123.568	231.537	6699.217	-32.506	-40.920	0.475	52.260
6800.000	0.196	188.141	231.154	6799.214	-33.001	-40.978	0.228	52.614
6900.000	0.310	216.601	230.785	6899.213	-33.373	-40.898	0.105	52.786