

**GyroTracer Directional:**

Date: 11/29/2018  
 Operator : Adrian Bruner  
 API: 05-123-25279  
 Well Name: **Wells Ranch USX AA 15-7**  
 Field : Noble Energy Inc  
 Tool Type And Number: 1719  
 Bottom Depth : 6700.00  
 Total Well Depth: 6956.00  
 Latitude : 40.4885 N  
 Longitude : 104.42054 W  
 Grid Offset : 0.70

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

Northing: 0.00      Easting: 0.00      Altitude: 4752.00

**Description:**

*Azimuth measured in degrees and referenced to local grid*

*Inclination measured from Vertical*

*Length measured in US survey feet*

Start Time: 11/29/2018 14:42

End Time: 11/29/2018 15:53

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	198.449	199.558	100.000	-0.760	-0.270	0.460	0.807
200.000	0.386	288.904	209.076	199.998	-1.062	-0.590	0.612	1.215
300.000	0.043	266.157	217.170	299.995	-1.427	-1.082	0.613	1.791
400.000	0.590	267.694	227.259	399.991	-1.659	-1.795	0.453	2.445
500.000	0.748	238.348	235.947	499.984	-1.933	-2.859	0.362	3.451
600.000	0.845	273.722	242.781	599.974	-2.109	-4.101	0.569	4.612
700.000	0.904	253.417	247.665	699.961	-2.339	-5.692	0.264	6.154
800.000	0.789	277.024	249.363	799.948	-2.701	-7.172	0.429	7.664
900.000	1.095	247.168	251.648	899.933	-2.928	-8.827	0.596	9.300
1000.000	0.980	239.490	251.869	999.918	-3.414	-10.427	0.117	10.972
1100.000	0.944	227.709	251.078	1099.903	-4.086	-11.918	0.253	12.599
1200.000	0.769	231.051	249.989	1199.891	-4.805	-13.193	0.209	14.041
1300.000	1.095	240.123	248.692	1299.876	-5.706	-14.629	0.307	15.702
1400.000	1.168	221.210	247.039	1399.859	-6.778	-15.997	0.361	17.374
1500.000	0.755	243.319	245.848	1499.847	-7.695	-17.161	0.352	18.807
1600.000	0.898	215.798	244.770	1599.835	-8.629	-18.312	0.464	20.243
1700.000	0.553	246.499	243.294	1699.825	-9.650	-19.183	0.562	21.473
1800.000	0.624	189.403	242.137	1799.815	-10.630	-20.107	0.669	22.744
1900.000	0.670	190.801	241.121	1899.809	-11.420	-20.705	0.287	23.645
2000.000	0.427	231.783	240.114	1999.805	-12.086	-21.030	0.498	24.255
2100.000	0.070	175.576	239.595	2099.802	-12.524	-21.343	0.589	24.746
2200.000	0.327	253.753	240.416	2199.800	-12.364	-21.779	0.243	25.044
2300.000	0.536	329.001	242.071	2299.796	-11.695	-22.061	0.126	24.970

2400.000	1.153	333.540	245.597	2399.783	-10.224	-22.535	0.570	24.746
2500.000	0.818	317.533	249.732	2499.765	-8.613	-23.323	0.508	24.863
2600.000	1.113	323.358	254.279	2599.744	-6.798	-24.149	0.233	25.088
2700.000	0.965	343.529	258.432	2699.726	-5.100	-24.914	0.556	25.430
2800.000	1.383	326.141	262.534	2799.708	-3.334	-25.437	0.482	25.655
2900.000	1.194	324.508	266.298	2899.691	-1.693	-26.164	0.658	26.219
3000.000	1.116	350.053	269.305	2999.679	-0.323	-26.659	0.512	26.661
3100.000	0.761	292.301	272.244	3099.663	1.080	-27.570	0.897	27.591
3200.000	0.699	301.203	274.195	3199.651	2.094	-28.554	0.172	28.631
3300.000	0.828	340.352	275.758	3299.643	2.962	-29.369	0.578	29.518
3400.000	0.757	342.071	277.062	3399.638	3.691	-29.795	0.211	30.023
3500.000	0.395	80.960	277.767	3499.631	3.972	-29.124	1.181	29.394
3600.000	0.780	95.040	278.309	3599.615	4.005	-27.424	0.340	27.715
3700.000	1.388	115.282	278.286	3699.597	3.738	-25.669	0.651	25.940
3800.000	1.335	111.997	276.789	3799.570	2.810	-23.609	0.097	23.776
3900.000	1.518	130.753	274.486	3899.545	1.710	-21.791	0.524	21.858
4000.000	0.591	107.728	271.924	3999.523	0.674	-20.069	1.016	20.081
4100.000	0.854	146.989	269.303	4099.511	-0.231	-19.018	0.531	19.019
4200.000	0.378	104.325	266.889	4199.502	-0.979	-18.003	0.721	18.030
4300.000	1.061	95.276	264.979	4299.492	-1.477	-16.815	0.633	16.880
4400.000	1.130	115.382	262.312	4399.480	-2.096	-15.530	0.732	15.671
4500.000	1.108	172.847	257.295	4499.466	-3.308	-14.673	1.073	15.042
4600.000	1.086	187.265	249.326	4599.443	-5.347	-14.170	0.275	15.146
4700.000	1.110	189.582	241.590	4699.414	-7.687	-14.211	0.053	16.157
4800.000	1.055	200.401	236.714	4799.389	-9.762	-14.868	0.201	17.786
4900.000	1.112	213.214	234.969	4899.366	-11.336	-16.171	0.249	19.749
5000.000	1.230	221.191	233.266	4999.351	-12.711	-17.032	0.220	21.253
5100.000	0.474	156.024	231.103	5099.342	-13.751	-17.044	0.797	21.899
5200.000	0.396	158.127	229.062	5199.337	-14.313	-16.501	0.039	21.844
5300.000	0.772	131.069	226.215	5299.329	-14.896	-15.541	0.488	21.527
5400.000	0.868	101.871	222.589	5399.316	-15.509	-14.256	0.465	21.066
5500.000	1.145	101.084	218.184	5499.302	-16.426	-12.918	0.376	20.897
5600.000	0.730	140.283	214.686	5599.291	-16.936	-11.721	0.675	20.597
5700.000	0.976	82.742	211.230	5699.280	-17.201	-10.429	0.827	20.115
5800.000	0.696	45.863	208.579	5799.269	-16.765	-9.133	0.685	19.092
5900.000	1.148	75.072	206.796	5899.259	-15.942	-8.052	0.760	17.860
6000.000	1.130	18.720	206.813	5999.242	-14.425	-7.291	1.017	16.163
6100.000	1.060	355.723	209.577	6099.218	-12.368	-7.019	0.455	14.221
6200.000	0.831	333.436	215.732	6199.194	-10.315	-7.421	0.439	12.707
6300.000	0.910	351.833	222.589	6299.179	-8.805	-8.093	0.570	11.959
6400.000	0.570	279.810	229.725	6399.165	-7.593	-8.962	0.966	11.746
6500.000	0.426	12.198	234.251	6499.158	-6.737	-9.358	0.431	11.531
6600.000	0.510	62.746	238.665	6599.152	-5.881	-9.659	0.692	11.308
6700.000	0.440	334.329	242.756	6699.147	-5.021	-9.752	0.650	10.969