

GyroTracer Directional:

Date: 2/27/2019
 Operator : Adrian Bruner
 API : 05-123-27348
 Well Name : **Wolfe USX CC 7-10**
 Field : Noble Energy Inc
 Tool Number: 1717
 Bottom Depth : 6300.00
 Total Well Depth: 6826.00
 Latitude : 40.32523 N
 Longitude : 104.47826 W
 Grid Offset : 0.66
 Datum: NAD 83

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

Northing: 0.00 Easting: 0.00 GLE: 4624.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Lat/Long/Elevation obtained by handheld GPS at wellhead. Device error ± 9 Feet

RKB = Ground Level Elevation

Start Time: 2/27/2019 8:29

End Time: 2/27/2019 9:31

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	0.380	148.662	106.783	100.000	-0.190	0.630	0.380	0.658
200.000	0.414	183.987	136.689	199.999	-0.677	0.638	0.234	0.930
300.000	0.287	190.285	155.411	299.997	-1.157	0.529	0.064	1.272
400.000	0.295	198.442	169.157	399.995	-1.584	0.303	0.046	1.612
500.000	0.298	240.237	182.204	499.994	-1.944	-0.075	0.386	1.945
600.000	0.379	240.136	189.761	599.992	-2.358	-0.406	0.147	2.392
700.000	0.197	208.555	194.737	699.990	-2.804	-0.737	0.177	2.899
800.000	0.406	200.157	199.643	799.987	-3.306	-1.180	0.221	3.510
900.000	0.511	203.717	202.838	899.984	-3.888	-1.638	0.103	4.219
1000.000	0.571	217.684	205.514	999.980	-4.505	-2.150	0.174	4.992
1100.000	0.621	218.270	206.683	1099.976	-5.184	-2.605	0.048	5.802
1200.000	0.484	219.548	206.331	1199.972	-5.960	-2.950	0.209	6.650
1300.000	0.475	221.074	206.302	1299.968	-6.782	-3.352	0.048	7.565
1400.000	0.446	212.114	206.947	1399.962	-7.592	-3.859	0.086	8.517
1500.000	0.455	203.985	207.324	1499.958	-8.403	-4.341	0.121	9.458
1600.000	0.460	197.806	207.549	1599.953	-9.232	-4.816	0.067	10.413
1700.000	0.635	187.572	207.405	1699.948	-10.087	-5.230	0.140	11.362
1800.000	0.707	164.430	205.261	1799.942	-11.054	-5.216	0.275	12.222
1900.000	0.840	123.770	199.171	1899.930	-12.182	-4.235	0.527	12.897
2000.000	0.867	125.709	192.866	1999.916	-13.319	-3.042	0.043	13.662
2100.000	1.200	118.740	185.726	2099.897	-14.403	-1.444	0.248	14.475

2200.000	1.276	138.247	178.615	2199.871	-15.714	0.380	0.415	15.718
2300.000	1.171	129.879	172.798	2299.846	-17.054	2.155	0.087	17.190
2400.000	0.647	119.514	168.508	2399.831	-17.850	3.629	0.663	18.216
2500.000	0.497	90.293	165.997	2499.825	-18.247	4.550	0.381	18.805
2600.000	0.354	66.220	163.777	2599.822	-18.254	5.311	0.161	19.011
2700.000	0.516	87.713	161.642	2699.819	-18.374	6.097	0.165	19.359
2800.000	0.627	90.048	159.372	2799.814	-18.414	6.932	0.163	19.676
2900.000	0.486	89.490	157.196	2899.811	-18.322	7.703	0.213	19.875
3000.000	0.257	59.969	155.068	2999.808	-18.162	8.443	0.242	20.029
3100.000	0.253	319.559	154.924	3099.807	-17.909	8.380	0.399	19.773
3200.000	0.767	12.868	154.050	3199.802	-17.120	8.331	0.663	19.039
3300.000	0.877	7.744	150.283	3299.787	-15.494	8.844	0.230	17.841
3400.000	0.707	45.245	145.886	3399.775	-14.233	9.642	0.450	17.192
3500.000	1.010	73.930	142.103	3499.768	-13.728	10.686	0.475	17.397
3600.000	1.252	108.558	138.743	3599.750	-13.993	12.275	0.760	18.614
3700.000	1.364	120.458	135.929	3699.725	-14.801	14.328	0.373	20.600
3800.000	1.006	147.955	135.192	3799.702	-16.025	15.918	0.642	22.587
3900.000	0.893	196.107	137.744	3899.687	-17.658	16.042	0.774	23.857
4000.000	1.028	233.873	141.522	3999.673	-18.969	15.077	0.671	24.231
4100.000	1.462	301.172	145.154	4099.653	-18.895	13.155	1.504	23.023
4200.000	2.966	305.941	148.944	4199.594	-17.143	10.323	1.540	20.011
4300.000	3.948	313.164	155.710	4299.397	-12.885	5.815	1.081	14.136
4400.000	4.673	323.977	173.728	4399.105	-7.179	0.789	1.030	7.222
4500.000	5.921	336.114	286.098	4498.666	1.039	-3.599	1.671	3.745
4600.000	5.830	337.753	323.700	4598.132	10.498	-7.712	0.202	13.026
4700.000	5.850	342.808	331.092	4697.595	20.238	-11.176	0.511	23.119
4800.000	5.541	348.351	335.682	4797.115	29.755	-13.446	0.644	32.652
4900.000	5.549	356.636	339.360	4896.646	39.320	-14.811	0.800	42.017
5000.000	4.538	1.807	342.888	4996.259	48.088	-14.805	1.103	50.316
5100.000	3.757	7.274	345.314	5096.005	55.171	-14.459	0.861	57.034
5200.000	3.174	3.108	346.997	5195.826	61.077	-14.104	0.599	62.684
5300.000	2.339	4.248	348.342	5295.708	65.883	-13.593	0.824	67.271
5400.000	1.955	19.874	349.399	5395.636	69.605	-13.027	0.707	70.813
5500.000	1.563	9.911	350.284	5495.595	72.361	-12.390	0.440	73.414
5600.000	1.116	37.003	351.099	5595.572	74.328	-11.641	0.747	75.234
5700.000	0.930	38.400	352.037	5695.556	75.748	-10.595	0.219	76.486
5800.000	0.770	60.640	353.029	5795.543	76.722	-9.381	0.413	77.294
5900.000	0.915	73.399	354.192	5895.529	77.519	-7.885	0.201	77.919
6000.000	0.735	73.855	355.301	5995.516	78.152	-6.424	0.432	78.415
6100.000	0.877	65.203	356.309	6095.504	78.785	-5.082	0.200	78.949
6200.000	0.963	57.053	357.372	6195.490	79.675	-3.656	0.136	79.759
6300.000	1.070	66.318	358.332	6295.477	80.572	-2.346	0.232	80.606