

GyroTracer Directional:

Date: 12/20/2018
 Operator : Adrian Bruner
 API : 05-123-26591
 Well Name : **Booth USX EE 25-8**
 Field : Noble Energy Inc
 Tool Number: 1719
 Bottom Depth : 7100.00
 Total Well Depth: 7326.00
 Latitude : 40.54578 N
 Longitude : 104.60378 W
 Grid Offset : 0.58
 Datum: NAD 83

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

Northing: 0.00 Easting: 0.00 GLE: 4871.00

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: 12/20/2018 14:36

End Time: 12/20/2018 15:45

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	0.650	66.225	57.567	99.990	0.610	0.960	0.650	1.137
200.000	0.156	119.773	52.086	199.986	1.098	1.409	0.558	1.786
300.000	0.247	357.459	54.021	299.983	1.373	1.891	0.400	2.336
400.000	0.131	81.033	58.094	399.981	1.259	2.022	0.215	2.382
500.000	0.584	161.847	67.645	499.979	0.851	2.070	0.595	2.238
600.000	0.524	212.342	80.403	599.977	0.370	2.190	0.501	2.222
700.000	0.218	126.399	95.013	699.974	-0.205	2.338	0.537	2.347
800.000	0.070	338.441	103.777	799.972	-0.599	2.443	0.194	2.516
900.000	0.332	121.478	112.901	899.970	-1.041	2.464	0.412	2.675
1000.000	0.557	175.431	119.645	999.968	-1.377	2.419	0.466	2.783
1100.000	0.460	183.663	125.409	1099.966	-1.755	2.468	0.134	3.029
1200.000	0.460	162.221	130.062	1199.964	-2.134	2.538	0.190	3.315
1300.000	0.460	166.086	130.801	1299.962	-2.479	2.872	0.045	3.794
1400.000	0.476	183.313	131.609	1399.959	-2.906	3.272	0.162	4.377
1500.000	0.658	140.443	132.237	1499.956	-3.343	3.683	0.464	4.974
1600.000	0.738	134.897	131.460	1599.952	-3.771	4.269	0.030	5.696
1700.000	0.667	145.546	130.197	1699.948	-4.121	4.877	0.125	6.385
1800.000	0.522	141.361	130.172	1799.945	-4.537	5.374	0.181	7.034
1900.000	0.460	108.087	130.360	1899.942	-4.832	5.685	0.290	7.461
2000.000	0.397	21.321	129.533	1999.941	-4.784	5.796	0.556	7.515
2100.000	0.369	4.972	128.352	2099.940	-4.549	5.749	0.092	7.331

2200.000	0.265	313.918	126.750	2199.938	-4.319	5.784	0.271	7.219
2300.000	0.449	137.783	123.605	2299.936	-4.154	6.251	0.690	7.506
2400.000	0.969	126.634	123.021	2399.927	-4.754	7.314	0.570	8.723
2500.000	0.929	89.857	121.788	2499.915	-5.384	8.688	0.583	10.221
2600.000	0.681	106.051	119.877	2599.902	-5.809	10.112	0.317	11.661
2700.000	1.025	88.816	115.047	2699.882	-5.605	11.994	0.403	13.239
2800.000	1.289	73.836	110.546	2799.860	-5.253	14.015	0.306	14.967
2900.000	0.787	92.342	107.186	2899.843	-4.871	15.750	0.644	16.486
3000.000	0.642	50.521	105.039	2999.832	-4.593	17.096	0.568	17.702
3100.000	0.680	111.405	103.817	3099.825	-4.449	18.089	0.715	18.628
3200.000	0.618	131.172	104.070	3199.820	-4.707	18.781	0.231	19.362
3300.000	0.393	134.583	105.534	3299.816	-5.360	19.284	0.259	20.015
3400.000	0.850	140.357	107.788	3399.808	-6.359	19.820	0.472	20.815
3500.000	1.510	100.789	107.805	3499.791	-6.909	21.511	1.015	22.594
3600.000	1.760	105.023	107.872	3599.754	-7.751	24.038	0.285	25.257
3700.000	0.586	138.139	108.840	3699.722	-8.901	26.087	1.274	27.564
3800.000	1.231	145.131	110.605	3799.708	-10.129	26.939	0.682	28.780
3900.000	1.321	162.715	113.388	3899.690	-11.865	27.435	0.408	29.891
4000.000	1.388	172.061	116.372	3999.665	-13.958	28.154	0.280	31.424
4100.000	1.947	139.596	118.663	4099.631	-16.087	29.428	1.078	33.538
4200.000	1.643	138.570	119.964	4199.594	-18.012	31.242	0.309	36.062
4300.000	0.899	131.277	120.432	4299.565	-19.417	33.054	0.831	38.336
4400.000	1.362	129.278	120.386	4399.543	-20.428	34.838	0.322	40.385
4500.000	0.294	128.059	120.229	4499.531	-21.027	36.086	0.975	41.765
4600.000	0.922	272.809	120.386	4599.523	-20.659	35.231	1.222	40.841
4700.000	1.217	296.467	121.023	4699.504	-20.111	33.441	0.672	39.022
4800.000	1.000	311.512	121.846	4799.482	-19.577	31.518	0.473	37.103
4900.000	1.110	304.292	122.447	4899.467	-19.058	29.976	0.156	35.522
5000.000	0.557	277.843	123.153	4999.454	-18.661	28.568	0.660	34.123
5100.000	0.715	299.542	123.954	5099.442	-18.293	27.168	0.190	32.753
5200.000	1.320	306.015	124.649	5199.428	-17.750	25.684	0.528	31.221
5300.000	1.135	278.677	125.512	5299.407	-17.032	23.868	0.595	29.322
5400.000	1.021	270.543	126.756	5399.387	-16.476	22.060	0.160	27.534
5500.000	0.963	307.126	127.731	5499.371	-15.846	20.480	0.644	25.895
5600.000	0.881	298.280	128.756	5599.353	-15.083	18.788	0.208	24.093
5700.000	1.284	319.291	130.024	5699.336	-14.456	17.213	0.591	22.477
5800.000	1.473	306.967	131.028	5799.296	-12.954	14.888	0.350	19.735
5900.000	1.490	302.360	133.062	5899.255	-11.631	12.446	0.187	17.035
6000.000	1.081	283.922	136.598	5999.222	-10.707	10.126	0.590	14.737
6100.000	1.285	304.767	141.030	6099.198	-10.038	8.120	0.475	12.911
6200.000	0.766	270.582	146.850	6199.177	-9.526	6.222	0.746	11.378
6300.000	0.787	292.154	152.809	6299.164	-9.229	4.741	0.315	10.376
6400.000	1.139	266.530	159.138	6399.151	-8.749	3.334	0.552	9.363
6500.000	1.154	270.390	167.963	6499.135	-8.283	1.766	0.077	8.470
6600.000	0.879	275.447	179.103	6599.120	-7.972	0.125	0.296	7.973
6700.000	1.236	320.576	192.732	6699.100	-7.630	-1.724	0.840	7.822
6800.000	1.544	304.900	209.925	6799.069	-7.054	-4.060	0.542	8.139
6900.000	2.104	303.185	227.998	6899.024	-6.105	-6.780	0.607	9.124
7000.000	2.750	264.090	243.969	6998.932	-5.301	-10.853	1.723	12.078
7100.000	2.139	224.092	246.949	7098.757	-6.915	-16.251	1.790	17.661