

GyroTracer Directional:

Date: 8/8/2018
 Operator : Adrian Bruner
 API: 05-123-24225
 Well Name: **Guttersen USX CC 17-12**
 Field : Noble Energy Inc
 Tool Type And Number: 1605
 Bottom Depth : 6600.00
 Total Well Depth: 6852.00
 Latitude : 40.31053 N
 Longitude : 104.46874 W
 Grid Offset : 0.67

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

Northing: 0.00 Easting: 0.00 Altitude: 4680.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 8/8/2018 13:29

End Time: 8/8/2018 14:31

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	0.280	177.701	161.940	100.000	-0.460	0.150	0.280	0.484
200.000	0.345	179.209	173.743	199.999	-0.884	0.097	0.060	0.889
300.000	0.022	244.446	183.728	299.998	-1.076	-0.070	0.357	1.078
400.000	0.083	17.947	188.283	399.998	-0.864	-0.126	0.204	0.873
500.000	0.642	41.238	148.706	499.995	-0.293	0.178	0.497	0.342
600.000	0.625	32.802	50.050	599.987	0.718	0.857	0.087	1.118
700.000	0.697	37.464	44.351	699.980	1.616	1.580	0.045	2.260
800.000	0.691	40.287	40.233	799.972	2.648	2.240	0.106	3.469
900.000	0.714	25.390	37.700	899.965	3.714	2.871	0.189	4.694
1000.000	0.706	43.224	35.722	999.957	4.775	3.434	0.231	5.882
1100.000	0.601	25.147	33.556	1099.951	5.808	3.852	0.190	6.969
1200.000	0.612	354.602	30.977	1199.944	6.921	4.155	0.325	8.072
1300.000	0.787	2.997	28.113	1299.938	7.996	4.272	0.210	9.066
1400.000	0.658	3.574	25.099	1399.932	9.073	4.250	0.030	10.018
1500.000	0.514	4.362	22.536	1499.926	10.173	4.221	0.113	11.014
1600.000	0.536	338.460	20.161	1599.919	11.297	4.148	0.222	12.035
1700.000	0.717	4.690	18.260	1699.912	12.483	4.119	0.332	13.145
1800.000	0.846	2.873	17.201	1799.901	13.893	4.301	0.063	14.544
1900.000	0.997	20.396	16.801	1899.889	15.396	4.649	0.314	16.082
2000.000	1.198	13.858	16.819	1999.877	16.901	5.109	0.297	17.656
2100.000	0.641	51.461	18.299	2099.866	18.044	5.967	0.665	19.005
2200.000	0.755	63.557	21.159	2199.856	18.640	7.215	0.212	19.987
2300.000	0.770	71.538	24.249	2299.846	18.993	8.556	0.099	20.831

2400.000	0.662	77.348	26.967	2399.838	19.211	9.775	0.109	21.555
2500.000	0.637	83.507	29.587	2499.831	19.260	10.935	0.080	22.148
2600.000	0.667	89.104	31.821	2599.825	19.346	12.005	0.078	22.768
2700.000	0.556	100.974	33.816	2699.819	19.497	13.060	0.191	23.468
2800.000	0.654	85.925	35.563	2799.813	19.682	14.072	0.124	24.195
2900.000	0.468	85.965	37.260	2899.808	19.807	15.067	0.117	24.887
3000.000	0.334	87.691	38.837	2999.804	19.783	15.927	0.186	25.397
3100.000	0.228	105.038	40.139	3099.801	19.660	16.578	0.146	25.717
3200.000	0.217	172.616	41.074	3199.800	19.335	16.852	0.196	25.648
3300.000	0.283	204.978	41.657	3299.799	18.875	16.792	0.074	25.264
3400.000	0.418	224.082	42.028	3399.797	18.336	16.526	0.165	24.684
3500.000	0.704	238.333	41.936	3499.793	17.735	15.933	0.343	23.841
3600.000	0.590	234.415	41.250	3599.785	17.033	14.938	0.030	22.656
3700.000	1.204	255.893	39.025	3699.771	16.511	13.383	0.601	21.253
3800.000	1.518	259.760	34.809	3799.747	16.158	11.234	0.311	19.680
3900.000	1.284	251.720	29.359	3899.716	15.695	8.829	0.267	18.008
4000.000	1.388	240.382	23.995	3999.692	15.084	6.714	0.396	16.511
4100.000	1.846	246.682	16.564	4099.649	13.806	4.106	0.377	14.404
4200.000	2.305	250.573	3.879	4199.583	12.324	0.836	0.448	12.352
4300.000	2.206	245.743	345.541	4299.506	10.951	-2.824	0.234	11.309
4400.000	1.774	241.480	326.967	4399.440	9.104	-5.920	0.303	10.860
4500.000	1.554	223.725	311.733	4499.397	7.254	-8.133	0.490	10.898
4600.000	1.063	223.006	301.897	4599.376	6.042	-9.708	0.457	11.434
4700.000	0.609	271.577	297.313	4699.365	5.687	-11.012	0.817	12.394
4800.000	0.904	277.810	295.006	4799.355	5.803	-12.440	0.255	13.727
4900.000	0.997	263.901	292.848	4899.342	5.897	-13.996	0.300	15.187
5000.000	0.813	254.029	290.449	4999.330	5.796	-15.543	0.191	16.589
5100.000	0.969	265.949	288.251	5099.320	5.560	-16.860	0.296	17.753
5200.000	0.870	257.908	285.617	5199.310	5.075	-18.157	0.192	18.853
5300.000	0.450	261.313	283.516	5299.304	4.598	-19.127	0.293	19.672
5400.000	0.440	242.082	281.605	5399.299	4.090	-19.919	0.157	20.335
5500.000	0.377	254.710	279.718	5499.294	3.537	-20.652	0.176	20.952
5600.000	0.467	230.069	278.248	5599.291	3.081	-21.251	0.209	21.473
5700.000	0.269	244.233	277.239	5699.289	2.743	-21.598	0.334	21.771
5800.000	0.484	155.138	275.965	5799.287	2.264	-21.670	0.593	21.788
5900.000	0.528	132.663	274.275	5899.282	1.571	-21.017	0.212	21.076
6000.000	0.778	115.961	272.744	5999.276	0.966	-20.153	0.325	20.176
6100.000	0.865	105.747	271.217	6099.267	0.403	-18.965	0.214	18.969
6200.000	0.944	121.799	269.753	6199.255	-0.076	-17.664	0.296	17.664
6300.000	0.434	247.835	268.267	6299.249	-0.510	-16.845	1.312	16.852
6400.000	1.252	279.899	268.027	6399.232	-0.640	-18.583	0.941	18.594
6500.000	1.499	251.576	266.289	6499.204	-1.351	-20.827	0.706	20.871
6600.000	1.337	238.416	263.586	6599.180	-2.541	-22.607	0.335	22.749