

GyroTracer Directional:

Date: 10/29/2018
 Operator : Jordan Hucke
 API: 05-123-23531
 Well Name: **Hungenberg E 28-13**
 Field : Noble Energy Inc
 Tool Type And Number: 1717
 Bottom Depth : 7100.00
 Total Well Depth: 7231.00
 Latitude : 40.451822 N
 Longitude : 104.675926 W
 Grid Offset : 0.54

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

Northing: 0.00 Easting: 0.00 Altitude: 4702.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/29/2018 8:31

End Time: 10/29/2018 9:52

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	0.800	7.752	357.940	99.990	1.390	-0.050	0.800	1.391
200.000	0.535	354.246	359.230	199.984	2.468	-0.033	0.180	2.469
300.000	0.445	359.580	358.779	299.981	3.167	-0.067	0.038	3.168
400.000	0.428	358.194	357.389	399.978	3.912	-0.178	0.024	3.916
500.000	0.800	13.377	0.590	499.970	5.126	0.053	0.394	5.127
600.000	0.735	3.955	2.205	599.961	6.441	0.248	0.101	6.446
700.000	0.643	1.480	1.784	699.954	7.618	0.237	0.116	7.622
800.000	0.591	348.083	0.774	799.947	8.778	0.119	0.094	8.778
900.000	0.655	351.470	359.883	899.941	9.872	-0.020	0.042	9.872
1000.000	0.581	337.144	358.767	999.935	10.950	-0.236	0.216	10.952
1100.000	0.676	344.919	357.398	1099.929	11.993	-0.545	0.052	12.005
1200.000	0.580	340.593	355.859	1199.923	13.015	-0.942	0.158	13.049
1300.000	0.337	328.621	354.310	1299.917	13.919	-1.387	0.314	13.987
1400.000	0.387	316.790	352.866	1399.914	14.617	-1.829	0.050	14.731
1500.000	0.308	303.240	351.056	1499.911	14.905	-2.346	0.188	15.089
1600.000	0.276	266.270	348.781	1599.909	14.848	-2.945	0.130	15.138
1700.000	0.440	247.691	345.818	1699.906	14.730	-3.722	0.161	15.193
1800.000	0.671	242.954	342.367	1799.901	14.458	-4.595	0.199	15.171
1900.000	0.961	236.622	337.123	1899.891	13.760	-5.806	0.439	14.934
2000.000	1.034	235.530	330.664	1999.876	12.792	-7.189	0.223	14.673
2100.000	1.202	237.088	323.408	2099.859	11.812	-8.770	0.082	14.711
2200.000	1.083	235.769	315.921	2199.840	10.691	-10.353	0.148	14.882
2300.000	1.192	228.517	307.780	2299.817	9.228	-11.905	0.114	15.063

2400.000	1.241	226.288	299.931	2399.794	7.734	-13.433	0.120	15.501
2500.000	1.034	230.107	293.041	2499.773	6.342	-14.911	0.235	16.204
2600.000	0.838	230.779	287.226	2599.755	5.046	-16.274	0.347	17.039
2700.000	1.078	236.594	282.883	2699.741	4.022	-17.586	0.145	18.040
2800.000	0.994	255.358	279.677	2799.728	3.225	-18.914	0.226	19.187
2900.000	0.807	255.411	277.438	2899.717	2.648	-20.287	0.195	20.459
3000.000	0.739	254.839	275.425	2999.708	2.034	-21.416	0.067	21.512
3100.000	0.713	246.903	273.619	3099.699	1.426	-22.541	0.133	22.587
3200.000	0.403	251.740	272.441	3199.694	0.998	-23.415	0.244	23.436
3300.000	0.607	256.744	271.469	3299.690	0.619	-24.152	0.145	24.160
3400.000	1.456	284.891	271.334	3399.680	0.594	-25.501	1.014	25.508
3500.000	1.768	283.275	272.275	3499.641	1.121	-28.221	0.236	28.243
3600.000	1.799	281.153	272.950	3599.595	1.608	-31.200	0.103	31.242
3700.000	1.708	274.661	273.412	3699.548	2.040	-34.225	0.142	34.285
3800.000	1.949	274.741	273.533	3799.499	2.305	-37.339	0.219	37.410
3900.000	1.876	279.412	273.571	3899.449	2.524	-40.455	0.293	40.534
4000.000	1.656	281.280	274.074	3999.405	3.089	-43.371	0.188	43.481
4100.000	1.483	289.978	274.596	4099.369	3.696	-45.974	0.353	46.122
4200.000	1.280	293.034	275.485	4199.341	4.625	-48.160	0.231	48.381
4300.000	0.846	310.798	276.268	4299.321	5.480	-49.897	0.533	50.197
4400.000	0.797	298.114	276.925	4399.311	6.213	-51.158	0.163	51.534
4500.000	0.773	299.619	277.542	4499.300	6.942	-52.432	0.037	52.889
4600.000	0.706	306.698	278.124	4599.290	7.655	-53.626	0.104	54.169
4700.000	0.674	323.671	278.873	4699.283	8.494	-54.413	0.191	55.072
4800.000	0.672	341.519	279.699	4799.276	9.408	-55.045	0.276	55.843
4900.000	0.883	4.425	280.940	4899.268	10.665	-55.178	0.348	56.199
5000.000	0.833	2.760	282.354	4999.258	12.059	-55.058	0.087	56.363
5100.000	0.529	356.523	283.459	5099.251	13.146	-54.931	0.174	56.482
5200.000	0.259	351.692	284.229	5199.248	13.923	-54.906	0.273	56.644
5300.000	0.274	8.956	284.963	5299.245	14.650	-54.815	0.166	56.739
5400.000	0.295	17.397	285.554	5399.243	15.211	-54.650	0.048	56.727
5500.000	0.328	351.551	285.999	5499.242	15.616	-54.462	0.161	56.657
5600.000	0.212	317.706	286.341	5599.240	16.028	-54.667	0.170	56.968
5700.000	0.048	94.613	286.589	5699.239	16.316	-54.770	0.199	57.149
5800.000	0.303	349.149	286.714	5799.238	16.522	-55.021	0.348	57.448
5900.000	0.479	285.474	286.910	5899.237	16.752	-55.103	0.358	57.593
6000.000	0.122	318.253	287.274	5999.234	17.246	-55.459	0.283	58.079
6100.000	0.372	267.979	287.953	6099.230	17.937	-55.359	0.156	58.192
6200.000	0.609	356.143	288.543	6199.227	18.515	-55.197	0.457	58.220
6300.000	0.548	7.058	289.725	6299.218	19.798	-55.218	0.208	58.660
6400.000	0.643	356.911	290.841	6399.210	21.014	-55.202	0.204	59.067
6500.000	0.870	19.544	292.095	6499.201	22.351	-55.060	0.409	59.424
6600.000	0.938	10.742	293.530	6599.189	23.814	-54.690	0.153	59.650
6700.000	1.058	4.262	295.247	6699.171	25.655	-54.405	0.137	60.151
6800.000	1.409	1.920	297.510	6799.138	28.194	-54.138	0.314	61.040
6900.000	1.826	356.874	299.689	6899.098	31.008	-54.387	0.248	62.606
7000.000	1.338	10.925	301.903	6999.061	33.688	-54.116	0.628	63.744
7100.000	1.130	301.040	303.630	7097.419	35.660	-53.612	1.297	64.389