

GyroTracer Directional:

Date: 10/11/2018
 Operator : Adrian Bruner
 API: 05-123-23528
 Well Name: **Hungenberg E 28-25**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7000.00
 Total Well Depth: 7223.00
 Latitude : 40.453827 N
 Longitude : 104.672959 W
 Grid Offset : 0.53

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

Northing: 0.00 Easting: 0.00 Altitude: 4703.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/11/2018 8:41

End Time: 10/11/2018 9:46

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	0.330	213.820	263.991	100.010	-0.060	-0.570	0.330	0.573
200.000	0.486	157.250	220.224	199.997	-0.724	-0.612	0.411	0.948
300.000	0.351	208.526	203.713	299.995	-1.248	-0.548	0.411	1.364
400.000	0.206	176.756	196.472	399.993	-1.809	-0.535	0.218	1.886
500.000	0.333	172.357	194.488	499.992	-2.262	-0.584	0.240	2.336
600.000	0.206	69.551	189.630	599.990	-2.598	-0.441	0.505	2.635
700.000	0.494	123.675	181.127	699.989	-2.713	-0.053	0.428	2.714
800.000	0.390	125.785	171.361	799.986	-2.900	0.441	0.143	2.933
900.000	0.263	112.463	161.607	899.984	-3.056	1.016	0.174	3.220
1000.000	0.509	88.556	153.424	999.982	-3.289	1.645	0.330	3.678
1100.000	0.353	138.149	146.043	1099.978	-3.449	2.323	0.356	4.158
1200.000	0.365	88.078	140.408	1199.974	-3.730	3.085	0.301	4.841
1300.000	0.519	120.419	137.384	1299.971	-4.127	3.797	0.343	5.607
1400.000	0.583	133.717	136.726	1399.967	-4.654	4.382	0.147	6.392
1500.000	0.710	150.376	136.040	1499.962	-5.215	5.029	0.219	7.245
1600.000	0.608	151.644	136.769	1599.957	-5.956	5.599	0.036	8.175
1700.000	0.436	172.315	137.098	1699.954	-6.529	6.068	0.219	8.913
1800.000	0.381	135.851	137.881	1799.950	-7.147	6.462	0.279	9.636
1900.000	0.427	148.183	140.015	1899.946	-7.886	6.614	0.179	10.293
2000.000	0.539	187.885	142.880	1999.941	-8.860	6.705	0.340	11.111
2100.000	0.620	188.102	146.863	2099.932	-10.171	6.640	0.162	12.146
2200.000	0.887	173.689	151.247	2199.920	-11.593	6.361	0.401	13.223
2300.000	1.002	195.821	155.796	2299.909	-12.939	5.816	0.417	14.186

2400.000	0.991	204.590	160.239	2399.897	-14.212	5.106	0.174	15.102
2500.000	1.389	196.394	164.087	2499.886	-15.516	4.424	0.394	16.135
2600.000	0.867	187.603	166.754	2599.874	-16.862	3.969	0.433	17.322
2700.000	0.972	199.701	169.030	2699.864	-18.184	3.525	0.316	18.523
2800.000	0.602	218.169	171.125	2799.852	-19.537	3.051	0.397	19.774
2900.000	1.089	210.432	172.904	2899.841	-20.925	2.605	0.326	21.087
3000.000	0.794	202.112	174.071	2999.826	-22.539	2.341	0.351	22.660
3100.000	0.982	192.242	175.135	3099.812	-24.103	2.051	0.288	24.190
3200.000	0.549	153.916	175.153	3199.799	-25.646	2.175	0.730	25.738
3300.000	0.983	168.114	174.354	3299.788	-26.949	2.664	0.372	27.081
3400.000	1.014	170.761	173.246	3399.776	-28.257	3.346	0.180	28.454
3500.000	0.801	152.069	172.458	3499.763	-29.692	3.931	0.307	29.951
3600.000	0.961	208.407	173.139	3599.752	-31.015	3.732	0.841	31.239
3700.000	0.578	221.792	174.378	3699.741	-32.333	3.183	0.497	32.489
3800.000	0.912	197.529	175.616	3799.731	-33.450	2.564	0.468	33.548
3900.000	0.893	206.513	176.928	3899.723	-34.407	1.847	0.226	34.457
4000.000	0.623	243.262	177.896	3999.717	-35.240	1.295	0.538	35.263
4100.000	0.509	138.625	178.395	4099.712	-35.875	1.005	0.911	35.889
4200.000	0.487	14.452	178.229	4199.710	-36.123	1.117	0.713	36.140
4300.000	0.603	73.555	177.745	4299.708	-35.957	1.416	0.496	35.985
4400.000	0.675	29.829	177.322	4399.704	-35.158	1.645	0.378	35.196
4500.000	0.524	3.758	176.815	4499.694	-33.905	1.886	0.377	33.957
4600.000	1.469	16.365	176.297	4599.676	-32.114	2.078	0.890	32.181
4700.000	1.218	337.204	176.213	4699.637	-29.397	1.946	0.830	29.461
4800.000	0.990	336.901	176.655	4799.613	-27.330	1.597	0.573	27.377
4900.000	1.006	6.543	177.515	4899.596	-25.622	1.112	0.592	25.646
5000.000	1.140	354.468	177.739	4999.578	-23.818	0.941	0.263	23.837
5100.000	0.697	0.596	178.502	5099.568	-22.518	0.589	0.463	22.525
5200.000	0.320	284.957	179.606	5199.561	-21.591	0.149	0.683	21.591
5300.000	0.913	314.778	182.087	5299.552	-20.751	-0.756	0.679	20.765
5400.000	1.187	272.768	185.976	5399.538	-20.060	-2.100	0.820	20.170
5500.000	0.585	35.205	189.553	5499.520	-19.005	-3.198	1.563	19.272
5600.000	0.083	136.584	190.771	5599.517	-18.717	-3.561	0.533	19.053
5700.000	0.618	318.755	191.471	5699.514	-18.789	-3.813	0.713	19.172
5800.000	0.575	347.662	190.482	5799.510	-18.514	-3.425	0.160	18.828
5900.000	0.358	22.329	190.280	5899.505	-18.133	-3.289	0.322	18.429
6000.000	1.061	25.693	189.234	5999.500	-17.712	-2.879	0.670	17.945
6100.000	1.363	16.519	185.622	6099.485	-16.754	-1.649	0.415	16.835
6200.000	0.685	14.686	182.012	6199.467	-15.494	-0.544	0.531	15.503
6300.000	1.010	22.440	178.708	6299.450	-13.934	0.314	0.241	13.937
6400.000	1.285	17.713	173.668	6399.428	-12.162	1.349	0.286	12.236
6500.000	1.665	34.119	167.115	6499.401	-10.102	2.311	0.524	10.363
6600.000	1.560	32.385	156.960	6599.367	-7.707	3.278	0.107	8.375
6700.000	1.949	24.194	138.015	6699.322	-5.069	4.561	0.456	6.819
6800.000	1.786	18.398	112.752	6799.279	-2.351	5.606	0.205	6.080
6900.000	1.597	4.452	88.044	6899.242	0.218	6.390	0.440	6.394
7000.000	1.140	5.850	67.572	6999.206	2.803	6.792	0.542	7.348