

GyroTracer Directional:

Date: 10/24/2018
 Operator : Adrian Bruner
 API: 05-123-26556
 Well Name: **Hungenberg E 21-25**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7000.00
 Total Well Depth: 7277.00
 Latitude : 40.468675 N
 Longitude : 104.67363 W
 Grid Offset : 0.53

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

Northing: 0.00 Easting: 0.00 Altitude: 4731.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/24/2018 8:39

End Time: 10/24/2018 9:50

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	0.140	65.306	45.000	100.000	0.170	0.170	0.140	0.240
200.000	0.609	111.706	98.908	199.998	-0.099	0.633	0.515	0.641
300.000	0.149	129.844	91.739	299.996	-0.022	0.739	0.414	0.740
400.000	0.183	300.092	83.933	399.996	0.093	0.871	0.301	0.876
500.000	0.532	129.053	85.297	499.995	0.074	0.895	0.705	0.898
600.000	0.366	321.442	76.791	599.993	0.234	0.998	0.517	1.025
700.000	0.342	335.371	62.315	699.992	0.410	0.782	0.103	0.883
800.000	0.517	103.945	43.642	799.990	0.653	0.623	0.686	0.903
900.000	0.220	288.891	25.691	899.989	1.003	0.483	0.518	1.113
1000.000	0.100	40.974	14.999	999.987	1.267	0.339	0.247	1.311
1100.000	0.384	265.993	2.940	1099.985	1.658	0.085	0.510	1.660
1200.000	0.304	278.380	356.570	1199.984	1.913	-0.115	0.112	1.916
1300.000	0.152	265.681	345.840	1299.982	1.777	-0.448	0.163	1.832
1400.000	0.067	150.114	333.149	1399.980	1.683	-0.852	0.255	1.886
1500.000	0.067	148.145	324.499	1499.979	1.560	-1.113	0.035	1.916
1600.000	0.123	138.932	316.807	1599.978	1.427	-1.340	0.077	1.957
1700.000	0.170	276.938	316.155	1699.977	1.364	-1.310	0.371	1.891
1800.000	0.137	36.294	314.308	1799.976	1.177	-1.205	0.328	1.684
1900.000	0.143	280.763	312.841	1899.974	0.977	-1.053	0.236	1.437
2000.000	0.280	80.308	308.309	1999.973	0.759	-0.960	0.387	1.224
2100.000	0.398	197.830	300.031	2099.972	0.593	-1.026	0.613	1.185
2200.000	0.365	251.228	290.541	2199.970	0.405	-1.080	0.313	1.154
2300.000	0.387	223.633	280.254	2299.969	0.227	-1.253	0.137	1.273

2400.000	0.146	324.528	269.247	2399.967	-0.017	-1.256	0.517	1.256
2500.000	0.361	61.088	267.502	2499.964	-0.036	-0.822	0.408	0.822
2600.000	0.376	32.503	290.544	2599.962	0.130	-0.347	0.167	0.371
2700.000	0.530	48.107	350.246	2699.960	0.323	-0.056	0.271	0.328
2800.000	0.128	64.950	1.970	2799.958	0.715	0.025	0.574	0.715
2900.000	0.092	101.676	5.483	2899.956	1.209	0.116	0.099	1.215
3000.000	0.127	34.750	19.564	2999.953	1.518	0.539	0.105	1.611
3100.000	0.292	212.874	27.793	3099.952	1.444	0.761	0.567	1.632
3200.000	0.379	211.871	10.649	3199.947	1.078	0.203	0.096	1.097
3300.000	0.534	104.996	4.952	3299.944	0.756	0.065	0.758	0.758
3400.000	1.692	107.945	96.062	3399.918	-0.216	2.030	1.105	2.041
3500.000	2.144	130.363	109.326	3499.869	-1.661	4.735	0.866	5.018
3600.000	3.101	138.195	121.177	3599.772	-4.717	7.796	1.027	9.113
3700.000	3.155	141.258	129.123	3699.576	-9.512	11.695	0.178	15.075
3800.000	4.130	140.252	129.799	3799.352	-13.872	16.650	0.512	21.671
3900.000	4.380	153.878	134.182	3899.101	-19.833	20.407	1.038	28.457
4000.000	4.150	145.531	137.779	3998.828	-26.321	23.883	0.662	35.541
4100.000	3.593	163.037	138.864	4098.611	-31.644	27.640	1.317	42.016
4200.000	2.223	179.224	141.444	4198.524	-35.604	28.377	1.532	45.529
4300.000	1.669	196.646	144.041	4298.476	-38.587	27.993	0.763	47.672
4400.000	1.646	224.105	146.590	4398.443	-40.860	26.952	0.834	48.949
4500.000	1.950	244.900	149.823	4498.402	-42.714	24.837	0.725	49.410
4600.000	1.820	269.656	153.656	4598.344	-43.914	21.746	0.908	49.004
4700.000	1.795	271.890	157.329	4698.280	-43.748	18.274	0.109	47.412
4800.000	1.529	262.941	160.120	4798.243	-43.272	15.647	0.364	46.014
4900.000	1.140	278.641	162.489	4898.221	-43.262	13.649	0.185	45.364
5000.000	1.351	274.231	164.885	4998.201	-43.385	11.719	0.368	44.940
5100.000	0.817	270.793	167.143	5098.183	-43.276	9.878	0.234	44.389
5200.000	0.589	274.439	168.976	5198.168	-42.752	8.329	0.226	43.556
5300.000	0.802	292.652	170.356	5298.158	-42.141	7.161	0.280	42.745
5400.000	0.958	296.227	171.679	5398.150	-41.798	6.114	0.112	42.243
5500.000	2.116	324.454	173.658	5498.129	-40.773	4.532	1.484	41.024
5600.000	3.023	314.286	177.884	5598.037	-37.992	1.404	1.225	38.018
5700.000	1.846	307.509	183.151	5697.927	-34.785	-1.915	1.277	34.838
5800.000	1.259	300.535	186.739	5797.886	-32.785	-3.874	0.734	33.013
5900.000	0.464	308.829	188.715	5897.872	-31.527	-4.833	0.773	31.895
6000.000	0.488	31.213	189.195	5997.868	-30.764	-4.980	0.598	31.165
6100.000	0.661	38.798	188.775	6097.863	-30.090	-4.645	0.243	30.447
6200.000	0.560	63.189	188.288	6197.859	-29.546	-4.304	0.262	29.858
6300.000	0.771	81.809	187.369	6297.854	-29.101	-3.764	0.323	29.343
6400.000	0.692	22.279	186.498	6397.850	-28.566	-3.254	0.690	28.751
6500.000	0.633	47.696	185.495	6497.846	-28.138	-2.707	0.282	28.268
6600.000	0.255	82.521	184.914	6597.843	-27.695	-2.381	0.531	27.797
6700.000	0.427	155.245	184.561	6697.840	-27.416	-2.187	0.589	27.503
6800.000	0.226	118.766	184.453	6797.838	-27.236	-2.121	0.070	27.319
6900.000	0.340	122.818	183.884	6897.828	-27.281	-1.852	0.765	27.344
7000.000	0.520	66.600	183.007	6997.826	-27.260	-1.432	0.365	27.298