

GyroTracer Directional:

Date: 2/8/2019
 Operator: Adrian Bruner
 API: 05-123-29603
 Well Name: **Frank CC 7-29D**
 Field: Noble Energy Inc
 Tool Number: 1717
 Bottom Depth: 6800.00
 Total Well Depth: 6975.00
 Latitude: 40.33099 N
 Longitude: 104.48367 W
 Grid Offset: 0.66
 Datum: NAD 83

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

Northing: 0.00 Easting: 0.00 GLE: 4595.00

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: 2/8/2019 9:17

End Time: 2/8/2019 11:05

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	0.450	312.620	36.135	100.000	0.630	0.460	0.450	0.780
200.000	0.364	1.070	9.807	199.997	1.307	0.226	0.344	1.326
300.000	0.267	14.543	4.978	299.995	1.791	0.156	0.088	1.798
400.000	0.319	319.317	1.052	399.994	2.224	0.041	0.279	2.225
500.000	0.387	340.435	353.673	499.992	2.658	-0.295	0.244	2.675
600.000	0.204	304.163	346.868	599.990	3.028	-0.706	0.271	3.109
700.000	0.108	55.880	344.312	699.989	3.283	-0.922	0.215	3.410
800.000	0.269	55.359	347.578	799.989	3.520	-0.775	0.230	3.604
900.000	0.272	33.650	352.501	899.988	3.753	-0.494	0.104	3.785
1000.000	0.490	59.572	357.653	999.985	4.103	-0.168	0.286	4.106
1100.000	0.896	34.966	4.099	1099.981	4.737	0.339	0.572	4.749
1200.000	2.370	355.632	5.913	1199.947	7.193	0.745	1.746	7.231
1300.000	3.233	352.437	2.376	1299.842	11.739	0.487	0.890	11.749
1400.000	4.230	344.973	358.965	1399.619	18.321	-0.331	1.084	18.324
1500.000	5.846	341.171	353.045	1499.225	26.624	-3.248	1.648	26.822
1600.000	7.350	341.038	349.647	1598.581	37.350	-6.823	1.482	37.968
1700.000	9.110	343.373	347.517	1697.505	51.236	-11.342	1.813	52.477
1800.000	11.350	346.084	346.789	1795.828	68.772	-16.144	2.300	70.642
1900.000	12.590	342.088	346.046	1893.691	88.470	-21.983	1.507	91.160
2000.000	14.630	340.908	345.436	1990.804	111.275	-28.911	2.036	114.969
2100.000	15.395	334.409	344.018	2087.377	135.281	-38.745	1.850	140.720

2200.000	16.216	336.081	342.570	2183.621	159.889	-50.199	0.978	167.584
2300.000	16.220	341.287	342.056	2279.594	186.107	-60.270	1.458	195.623
2400.000	16.658	344.309	342.132	2375.627	212.722	-68.576	0.965	223.502
2500.000	17.569	344.435	342.465	2471.131	241.352	-76.259	0.894	253.113
2600.000	19.998	341.952	342.527	2565.978	271.629	-85.502	2.581	284.768
2700.000	20.722	341.127	342.391	2659.763	304.492	-96.645	0.823	319.462
2800.000	20.812	341.567	342.317	2753.098	338.562	-107.941	0.173	355.352
2900.000	19.748	340.960	342.220	2847.113	370.815	-118.916	1.078	389.416
3000.000	18.700	342.300	342.152	2941.298	402.651	-129.647	1.132	423.008
3100.000	17.343	345.472	342.259	3036.391	432.330	-138.315	1.709	453.917
3200.000	16.909	348.112	342.546	3132.122	460.495	-144.791	0.909	482.721
3300.000	17.973	346.194	342.808	3227.509	489.743	-151.528	1.206	512.649
3400.000	18.304	343.616	342.932	3322.543	519.799	-159.591	0.868	543.746
3500.000	19.740	338.431	342.797	3416.999	550.741	-170.510	2.198	576.533
3600.000	21.221	339.156	342.576	3510.875	582.875	-182.928	1.460	610.906
3700.000	22.666	338.919	342.362	3603.556	617.899	-196.459	1.431	648.379
3800.000	22.822	340.448	342.202	3695.510	654.719	-210.187	0.615	687.630
3900.000	21.996	340.528	342.111	3787.819	690.963	-223.025	0.813	726.065
4000.000	20.140	341.478	342.060	3881.294	724.547	-234.587	1.917	761.577
4100.000	20.786	342.683	342.064	3974.976	757.843	-245.306	0.751	796.555
4200.000	19.935	344.545	342.133	4068.686	791.342	-255.090	1.102	831.441
4300.000	18.940	342.947	342.208	4162.904	823.562	-264.290	1.129	864.930
4400.000	18.750	343.460	342.218	4257.751	853.778	-273.824	0.251	896.614
4500.000	17.824	346.434	342.297	4352.488	884.621	-282.370	1.310	928.594
4600.000	15.321	349.599	342.476	4448.499	911.966	-287.967	2.643	956.351
4700.000	15.076	345.344	342.587	4545.011	937.424	-294.006	1.150	982.447
4800.000	12.290	342.158	342.622	4642.123	960.333	-300.545	2.886	1006.263
4900.000	10.815	335.500	342.551	4740.162	978.699	-307.632	1.979	1025.909
5000.000	9.850	332.302	342.398	4838.489	995.031	-315.675	1.109	1043.905
5100.000	7.519	331.880	342.250	4937.224	1008.992	-322.987	2.343	1059.427
5200.000	4.800	320.811	342.110	5036.663	1017.854	-328.569	2.950	1069.572
5300.000	3.290	326.866	342.069	5136.442	1023.061	-331.058	1.544	1075.292
5400.000	1.807	325.971	342.007	5236.369	1026.076	-333.255	1.572	1078.838
5500.000	1.387	314.117	341.940	5336.330	1027.999	-335.213	0.489	1081.272
5600.000	0.324	331.456	341.922	5436.320	1029.067	-335.907	1.125	1082.503
5700.000	0.343	12.512	341.927	5536.317	1029.778	-336.039	0.136	1083.220
5800.000	0.549	319.524	341.923	5636.313	1030.499	-336.360	0.455	1084.004
5900.000	0.301	301.954	341.898	5736.309	1030.903	-336.984	0.276	1084.582
6000.000	0.151	286.717	341.882	5836.308	1031.103	-337.368	0.277	1084.892
6100.000	0.382	59.087	341.891	5936.307	1031.342	-337.280	0.595	1085.092
6200.000	0.560	69.578	341.920	6036.305	1031.677	-336.807	0.246	1085.263
6300.000	0.487	42.723	341.969	6136.300	1032.188	-336.001	0.190	1085.499
6400.000	0.941	89.692	342.034	6236.291	1032.644	-334.840	0.703	1085.574
6500.000	0.561	101.282	342.094	6336.283	1032.492	-333.608	0.267	1085.051
6600.000	0.595	176.619	342.117	6436.277	1031.756	-332.901	0.737	1084.132
6700.000	0.575	237.635	342.078	6536.271	1030.904	-333.410	0.539	1083.479
6800.000	1.001	216.149	342.009	6636.261	1030.294	-334.592	0.540	1083.263