

GyroTracer Directional:

Date: 5/14/2018
 Operator : Adrian Bruner
 API: 05-123-27068
 Well Name: **GWAA 2-33**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 6900.00
 Total Well Depth: 7149.00
 Latitude : 40.42386 N
 Longitude : 104.63664 W
 Grid Offset : 0.56

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

Northing: 0.00 Easting: 0.00 Altitude: 4626.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 5/14/2018 13:27

End Time: 5/14/2018 15:16

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	0.080	138.700	167.005	100.000	-0.130	0.030	0.080	0.133
200.000	0.293	294.625	330.648	199.998	0.351	-0.197	0.361	0.403
300.000	0.452	322.707	336.507	299.995	0.933	-0.406	0.209	1.017
400.000	0.222	34.014	348.178	399.993	1.318	-0.276	0.315	1.346
500.000	0.453	107.282	356.487	499.992	1.298	-0.080	0.496	1.300
600.000	0.427	117.128	13.660	599.990	1.309	0.318	0.083	1.347
700.000	0.310	115.187	26.707	699.989	1.210	0.609	0.127	1.354
800.000	0.295	154.159	39.293	799.988	1.174	0.961	0.214	1.518
900.000	0.460	157.795	54.254	899.986	0.876	1.217	0.148	1.500
1000.000	0.241	114.114	69.172	999.984	0.562	1.476	0.330	1.579
1100.000	0.223	124.944	83.510	1099.983	0.172	1.514	0.042	1.524
1200.000	0.460	210.737	101.457	1199.981	-0.273	1.345	0.499	1.372
1300.000	0.300	158.975	122.220	1299.979	-0.799	1.268	0.314	1.499
1400.000	0.635	177.964	133.979	1399.978	-1.181	1.224	0.352	1.701
1500.000	0.319	114.856	138.565	1499.974	-1.819	1.606	0.466	2.426
1600.000	0.845	136.017	141.370	1599.968	-2.666	2.130	0.489	3.413
1700.000	0.583	124.830	138.344	1699.960	-3.467	3.084	0.290	4.640
1800.000	0.683	142.624	136.183	1799.950	-4.289	4.116	0.201	5.945
1900.000	1.003	109.506	133.844	1899.935	-5.287	5.505	0.572	7.632
2000.000	0.724	152.680	133.720	1999.927	-6.107	6.386	0.701	8.836
2100.000	0.283	234.170	136.276	2099.921	-6.981	6.677	0.761	9.660
2200.000	1.086	269.771	142.056	2199.913	-7.146	5.572	0.882	9.061
2300.000	3.438	238.222	167.531	2299.825	-8.248	1.824	2.591	8.448

2400.000	5.590	235.217	199.860	2399.515	-12.646	-4.568	2.113	13.446
2500.000	7.555	228.310	214.215	2498.829	-19.997	-13.598	2.114	24.182
2600.000	9.524	227.055	219.373	2597.624	-30.427	-24.969	1.977	39.360
2700.000	12.149	225.208	221.701	2695.839	-43.320	-38.598	2.654	58.021
2800.000	12.924	224.020	222.341	2793.397	-59.109	-53.862	0.825	79.968
2900.000	11.820	223.646	222.606	2891.009	-74.839	-68.832	1.104	101.679
3000.000	11.280	225.371	222.935	2989.021	-88.958	-82.767	0.642	121.506
3100.000	10.447	225.422	223.282	3087.148	-102.465	-96.498	0.824	140.751
3200.000	9.805	224.389	223.500	3185.572	-114.913	-109.048	0.674	158.418
3300.000	9.387	225.498	223.572	3284.207	-126.703	-120.540	0.471	174.881
3400.000	10.001	224.774	223.731	3382.770	-138.562	-132.557	0.641	191.757
3500.000	10.732	227.722	223.969	3481.130	-150.969	-145.634	0.908	209.764
3600.000	11.210	226.073	224.283	3579.295	-163.794	-159.746	0.581	228.796
3700.000	12.579	223.698	224.270	3677.119	-178.679	-174.180	1.447	249.530
3800.000	12.970	222.808	224.156	3774.570	-195.111	-189.449	0.439	271.955
3900.000	13.636	222.519	224.052	3871.943	-211.817	-204.919	0.672	294.717
4000.000	12.666	221.590	223.910	3969.400	-228.453	-219.924	0.994	317.108
4100.000	11.101	219.976	223.689	4067.350	-243.824	-232.914	1.608	337.193
4200.000	10.607	219.919	223.481	4165.512	-258.485	-245.129	0.454	356.234
4300.000	9.551	222.663	223.400	4263.973	-271.514	-256.755	1.144	373.688
4400.000	9.810	220.471	223.309	4362.508	-284.320	-268.011	0.470	390.727
4500.000	10.268	220.847	223.189	4461.054	-297.254	-279.031	0.476	407.699
4600.000	10.486	214.763	222.952	4559.356	-311.763	-290.236	1.123	425.950
4700.000	8.986	218.295	222.674	4657.909	-325.503	-300.095	1.625	442.729
4800.000	9.056	220.839	222.537	4756.599	-338.080	-310.193	0.408	458.823
4900.000	8.241	213.750	222.439	4855.416	-349.889	-319.927	1.347	474.105
5000.000	8.930	219.534	222.241	4954.346	-361.713	-328.456	1.103	488.590
5100.000	8.950	225.024	222.279	5053.095	-373.153	-339.297	0.850	504.347
5200.000	7.030	228.152	222.411	5152.157	-382.385	-349.304	1.978	517.911
5300.000	6.678	236.607	222.643	5251.448	-389.564	-358.761	1.076	529.594
5400.000	4.600	233.992	222.853	5350.981	-395.122	-366.570	2.079	538.975
5500.000	3.247	224.761	222.949	5450.742	-399.470	-371.848	1.485	545.754
5600.000	2.675	219.520	222.994	5550.616	-402.822	-375.564	0.738	550.740
5700.000	1.716	244.267	223.060	5650.561	-404.687	-378.165	1.306	553.877
5800.000	0.630	277.307	223.118	5750.540	-405.685	-379.876	1.302	555.775
5900.000	0.919	286.677	223.267	5850.526	-405.103	-381.305	0.380	556.329
6000.000	0.940	304.220	223.457	5950.508	-403.826	-382.643	0.261	556.319
6100.000	1.086	331.159	223.686	6050.482	-402.089	-384.059	0.426	556.037
6200.000	1.932	344.088	223.941	6150.446	-399.724	-385.211	0.862	555.128
6300.000	2.178	353.880	224.218	6250.398	-396.835	-386.155	0.404	553.709
6400.000	2.485	347.165	224.559	6350.326	-393.273	-387.266	0.427	551.941
6500.000	2.137	349.567	224.930	6450.246	-389.574	-388.622	0.333	550.268
6600.000	2.555	350.233	225.342	6550.142	-385.268	-389.892	0.426	548.131
6700.000	3.012	3.299	225.705	6650.021	-380.396	-389.879	0.853	544.708
6800.000	3.587	17.550	226.127	6749.840	-374.461	-389.488	0.958	540.298
6900.000	4.130	37.440	226.344	6849.623	-368.770	-386.486	1.437	534.194
6900.030	4.170	37.120	226.344	6849.653	-368.768	-386.485	1.449	534.192