

GyroTracer Directional:

Date: 2/7/2019
 Operator : Adrian Bruner
 API: 05-123-23265
 Well Name : **Dr Joe CC 6-15**
 Field : Noble Energy Inc
 Tool Type And Number: 1717
 Bottom Depth : 7000.00
 Total Well Depth: 7233.00
 Latitude : 40.33587 N
 Longitude : 104.47833 W
 Grid Offset : 0.66

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

Northing: 0.00 Easting: 0.00 Altitude: 4589.00

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: 2/7/2019 8:50

End Time: 2/7/2019 10:02

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	0.970	216.240	0.000	99.990	1.690	0.000	0.970	1.690
200.000	0.690	235.130	301.905	199.979	0.640	-1.028	0.378	1.211
300.000	0.520	234.370	259.759	299.967	-0.388	-2.150	0.155	2.184
400.000	1.340	240.730	248.358	399.950	-1.428	-3.598	0.814	3.871
500.000	1.020	231.100	244.222	499.933	-2.482	-5.139	0.369	5.707
600.000	1.320	207.770	237.863	599.914	-3.965	-6.311	0.553	7.453
700.000	1.130	213.000	231.521	699.893	-5.774	-7.265	0.214	9.280
800.000	0.940	200.340	227.284	799.879	-7.310	-7.917	0.293	10.776
900.000	0.590	184.980	223.847	899.868	-8.675	-8.332	0.402	12.028
1000.000	0.730	183.610	220.531	999.860	-9.903	-8.467	0.126	13.029
1100.000	0.860	178.854	217.043	1099.850	-11.298	-8.527	0.146	14.155
1200.000	0.910	167.821	213.708	1199.841	-12.611	-8.413	0.174	15.159
1300.000	0.900	191.175	210.683	1299.831	-13.962	-8.285	0.364	16.235
1400.000	0.870	170.704	208.528	1399.822	-15.289	-8.311	0.328	17.402
1500.000	0.100	113.760	208.133	1499.817	-16.109	-8.613	0.997	18.268
1600.000	0.460	186.308	207.886	1599.815	-16.565	-8.765	0.522	18.741
1700.000	0.320	213.464	208.171	1699.813	-17.008	-9.109	0.256	19.294
1800.000	0.930	212.043	208.172	1799.810	-17.582	-9.417	0.629	19.945
1900.000	0.500	174.342	207.181	1899.806	-18.430	-9.464	0.243	20.718
2000.000	0.380	227.270	206.974	1999.801	-19.331	-9.839	0.457	21.691
2100.000	1.500	246.710	209.352	2099.785	-20.126	-11.318	1.055	23.090

2200.000	2.310	250.705	213.884	2199.727	-21.475	-14.422	0.808	25.868
2300.000	2.680	249.772	218.225	2299.622	-23.467	-18.483	0.757	29.872
2400.000	2.980	225.937	219.299	2399.509	-26.731	-21.878	1.137	34.542
2500.000	3.110	227.172	220.379	2499.373	-30.224	-25.704	0.182	39.677
2600.000	2.940	233.626	221.590	2599.228	-33.620	-29.839	0.423	44.952
2700.000	2.820	238.719	222.824	2699.070	-37.000	-34.291	0.212	50.446
2800.000	3.430	239.061	224.376	2798.924	-39.775	-38.918	0.594	55.648
2900.000	3.260	248.386	226.206	2898.770	-42.112	-43.924	0.530	60.850
3000.000	2.420	250.066	227.769	2998.637	-44.143	-48.630	0.833	65.678
3100.000	2.180	232.886	228.473	3098.561	-46.072	-52.026	0.665	69.493
3200.000	1.670	215.858	228.247	3198.511	-48.342	-54.157	0.749	72.594
3300.000	1.590	196.008	227.394	3298.472	-50.861	-55.299	0.505	75.132
3400.000	1.650	182.209	226.039	3398.436	-53.546	-55.525	0.390	77.138
3500.000	1.640	182.925	224.160	3498.388	-56.429	-54.798	0.114	78.658
3600.000	1.910	164.224	222.123	3598.329	-59.755	-54.037	0.627	80.565
3700.000	2.170	162.719	219.926	3698.265	-63.085	-52.796	0.215	82.263
3800.000	1.290	148.261	217.867	3798.214	-65.811	-51.172	0.782	83.365
3900.000	1.620	141.599	216.202	3898.179	-68.055	-49.811	0.270	84.336
4000.000	1.170	139.075	214.857	3998.157	-69.637	-48.502	0.473	84.863
4100.000	0.740	91.527	213.930	4098.146	-70.350	-47.327	0.713	84.788
4200.000	0.890	74.454	213.390	4198.137	-69.979	-46.125	0.396	83.813
4300.000	1.280	64.473	212.845	4298.124	-69.244	-44.701	0.394	82.420
4400.000	1.500	88.107	211.853	4398.104	-68.908	-42.812	0.820	81.124
4500.000	2.170	103.386	210.021	4498.063	-69.239	-40.009	0.811	79.968
4600.000	3.210	117.776	206.587	4597.945	-71.050	-35.560	1.198	79.452
4700.000	3.390	124.764	202.305	4697.765	-73.983	-30.350	0.441	79.967
4800.000	3.570	122.273	198.012	4797.576	-77.169	-25.092	0.268	81.146
4900.000	3.190	112.937	194.137	4897.415	-79.726	-20.080	0.568	82.216
5000.000	2.560	112.989	190.832	4997.295	-81.782	-15.648	0.613	83.266
5100.000	2.170	108.494	188.331	5097.224	-83.257	-12.191	0.432	84.145
5200.000	1.840	108.534	186.075	5197.164	-84.575	-9.001	0.329	85.052
5300.000	1.460	102.341	183.991	5297.113	-85.525	-5.968	0.431	85.733
5400.000	1.750	85.034	182.118	5397.073	-85.765	-3.172	0.552	85.824
5500.000	1.810	77.033	180.179	5497.030	-85.611	-0.267	0.263	85.611
5600.000	1.700	68.490	178.154	5596.983	-85.047	2.742	0.291	85.091
5700.000	1.970	69.055	176.088	5696.932	-84.069	5.749	0.262	84.266
5800.000	1.820	70.092	173.905	5796.879	-83.106	8.874	0.150	83.579
5900.000	1.830	73.399	171.775	5896.829	-82.312	11.898	0.098	83.167
6000.000	1.250	57.505	169.880	5996.790	-81.635	14.571	0.718	82.925
6100.000	1.190	87.050	168.286	6096.763	-81.252	16.847	0.610	82.980
6200.000	1.400	90.416	166.964	6196.743	-81.330	18.831	0.228	83.481
6300.000	0.560	92.512	165.770	6296.725	-81.497	20.667	0.832	84.076
6400.000	1.040	79.278	164.783	6396.712	-81.752	22.238	0.493	84.723
6500.000	0.990	111.790	163.727	6496.696	-82.130	23.974	0.565	85.557
6600.000	0.800	134.470	162.730	6596.675	-82.939	25.785	0.406	86.854
6700.000	0.920	131.240	161.995	6696.660	-83.821	27.243	0.123	88.137
6800.000	1.000	128.790	161.474	6796.649	-84.739	28.397	0.088	89.371
6900.000	0.670	164.730	161.245	6896.638	-85.950	29.185	0.598	90.770
7000.000	1.020	163.590	161.151	6996.620	-87.686	29.934	0.331	92.655