

GyroTracer Directional:

Date: 4/3/2018
 Operator : Adrian Bruner
 API: 05-123-22793
 Well Name: **Carlson 18-43**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7100.00
 Total Well Depth: 7370.00
 Latitude : 40.481547 N
 Longitude : 104.820008 W
 Grid Offset : 0.44

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

Northing: 0.00 Easting: 0.00 Altitude: 4802.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 4/3/2018 10:07

End Time: 4/3/2018 11:19

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
101.000	0.590	8.470	4.399	100.990	1.040	0.080	0.584	1.043
200.000	0.989	142.888	3.757	199.985	1.959	0.129	1.479	1.963
300.000	0.341	293.446	356.832	299.982	2.579	-0.143	0.716	2.583
400.000	0.406	298.079	345.271	399.980	2.855	-0.751	0.037	2.952
500.000	0.541	319.184	337.191	499.976	3.348	-1.408	0.251	3.632
600.000	0.540	300.311	330.863	599.970	4.033	-2.248	0.181	4.617
700.000	0.587	306.312	326.479	699.966	4.560	-3.020	0.053	5.469
800.000	0.664	333.071	326.844	799.959	5.490	-3.587	0.314	6.558
900.000	0.691	332.439	327.629	899.951	6.626	-4.200	0.055	7.845
1000.000	0.778	325.885	327.530	999.943	7.666	-4.878	0.091	9.086
1100.000	0.732	331.258	327.462	1099.937	8.570	-5.467	0.080	10.165
1200.000	0.831	324.347	327.900	1199.927	9.758	-6.121	0.155	11.519
1300.000	1.044	310.618	326.778	1299.913	11.019	-7.217	0.270	13.172
1400.000	0.924	307.822	324.307	1399.896	12.098	-8.691	0.134	14.896
1500.000	0.944	279.204	320.396	1499.881	12.520	-10.359	0.440	16.250
1600.000	1.046	284.234	317.174	1599.869	12.844	-11.904	0.150	17.512
1700.000	1.099	287.693	314.121	1699.854	13.178	-13.588	0.220	18.929
1800.000	1.212	282.700	311.422	1799.834	13.665	-15.488	0.265	20.655
1900.000	1.550	276.943	308.335	1899.804	14.141	-17.883	0.350	22.798
2000.000	1.757	267.572	304.571	1999.763	14.295	-20.745	0.270	25.194
2100.000	1.848	265.775	300.419	2099.715	13.967	-23.788	0.105	27.585
2200.000	1.922	260.565	296.755	2199.663	13.609	-26.994	0.217	30.230
2300.000	1.663	252.552	293.429	2299.611	13.066	-30.152	0.336	32.861

2400.000	1.116	239.708	290.348	2399.580	12.008	-32.380	0.558	34.535
2500.000	1.234	234.788	287.506	2499.556	10.783	-34.185	0.119	35.846
2600.000	0.971	224.842	285.311	2599.540	9.750	-35.615	0.312	36.925
2700.000	1.023	235.521	283.197	2699.525	8.649	-36.882	0.165	37.883
2800.000	1.344	213.004	280.755	2799.505	7.279	-38.318	0.568	39.004
2900.000	1.379	210.261	277.583	2899.477	5.265	-39.548	0.090	39.896
3000.000	1.625	226.782	274.714	2999.447	3.385	-41.048	0.520	41.187
3100.000	2.006	225.457	271.540	3099.393	1.169	-43.488	0.327	43.504
3200.000	1.727	217.062	268.272	3199.333	-1.381	-45.768	0.392	45.789
3300.000	1.810	213.489	265.187	3299.283	-4.002	-47.526	0.114	47.694
3400.000	1.778	222.228	262.289	3399.230	-6.681	-49.343	0.292	49.794
3500.000	1.816	212.280	259.553	3499.171	-9.466	-51.341	0.418	52.206
3600.000	1.880	209.291	257.051	3599.122	-12.165	-52.911	0.149	54.292
3700.000	2.266	206.287	254.345	3699.057	-15.303	-54.605	0.491	56.709
3800.000	2.226	210.368	251.594	3798.983	-18.746	-56.335	0.201	59.372
3900.000	1.896	215.430	249.306	3898.918	-21.899	-57.972	0.360	61.970
4000.000	1.570	223.255	247.916	3998.872	-24.271	-59.819	0.271	64.555
4100.000	1.126	240.431	247.166	4098.836	-26.027	-61.815	0.688	67.071
4200.000	1.215	237.306	246.697	4198.817	-27.279	-63.331	0.055	68.957
4300.000	1.246	252.335	246.657	4298.793	-28.170	-65.273	0.300	71.093
4400.000	1.693	239.010	246.458	4398.755	-29.491	-67.690	0.590	73.835
4500.000	1.925	234.093	246.084	4498.706	-31.183	-70.313	0.289	76.917
4600.000	2.290	242.677	245.875	4598.633	-32.979	-73.640	0.392	80.687
4700.000	2.193	244.397	245.715	4698.551	-34.840	-77.218	0.072	84.714
4800.000	2.798	249.021	245.875	4798.453	-36.422	-81.326	0.488	89.110
4900.000	2.753	247.777	245.917	4898.332	-38.364	-85.834	0.118	94.017
5000.000	2.455	245.947	245.822	4998.232	-40.317	-89.803	0.445	98.438
5100.000	1.897	245.134	245.858	5098.171	-41.685	-93.007	0.353	101.922
5200.000	2.202	239.943	245.877	5198.116	-43.002	-96.029	0.425	105.218
5300.000	2.001	236.070	245.635	5298.049	-44.905	-99.151	0.192	108.845
5400.000	1.775	233.677	245.353	5397.991	-46.785	-101.968	0.177	112.189
5500.000	1.562	236.678	245.391	5497.936	-48.094	-105.001	0.383	115.491
5600.000	1.376	221.374	245.028	5597.903	-49.776	-106.884	0.536	117.906
5700.000	1.298	200.061	244.423	5697.880	-51.633	-107.877	0.464	119.597
5800.000	0.984	190.531	243.735	5797.859	-53.565	-108.547	0.419	121.044
5900.000	0.315	111.644	243.367	5897.853	-54.392	-108.464	0.911	121.339
6000.000	0.135	325.135	243.356	5997.852	-54.293	-108.211	0.397	121.067
6100.000	0.087	283.502	243.593	6097.850	-53.870	-108.485	0.156	121.124
6200.000	0.290	316.636	243.714	6197.850	-53.703	-108.725	0.203	121.265
6300.000	0.808	320.811	244.001	6297.847	-53.201	-109.080	0.530	121.362
6400.000	0.720	305.636	244.581	6397.838	-52.339	-110.133	0.196	121.937
6500.000	0.362	320.954	244.997	6497.831	-51.845	-111.165	0.337	122.660
6600.000	0.691	311.423	245.529	6597.824	-50.973	-112.003	0.337	123.056
6700.000	0.834	302.149	246.075	6697.814	-50.177	-113.097	0.200	123.728
6800.000	1.194	262.114	246.445	6797.796	-50.098	-114.915	0.784	125.361
6900.000	1.026	252.726	246.601	6897.777	-50.549	-116.821	0.223	127.288
7000.000	1.126	279.406	246.885	6997.762	-50.588	-118.516	0.552	128.861
7100.000	1.154	257.430	247.159	7097.746	-50.658	-120.270	0.450	130.503