

GyroTracer Directional:

Date: 5/14/2018
 Operator : Adrian Bruner
 API: 05-123-21705
 Well Name: cultural Products Federal 32-17F
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7200.00
 Total Well Depth: 7483.00
 Latitude : 40.27108 N
 Longitude : 104.79687 W
 Grid Offset : 0.45

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

Northing: 0.00 Easting: 0.00 Altitude: 4761.00

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 10:29

End Time: 5/14/2018 11:41

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
100.010	0.420	203.591	227.203	100.010	-0.500	-0.540	0.420	0.736
200.000	0.462	171.786	206.298	199.996	-1.304	-0.644	0.248	1.454
300.000	0.360	209.118	205.689	299.994	-1.834	-0.882	0.212	2.036
400.000	0.639	192.339	204.068	399.992	-2.387	-1.066	0.302	2.614
500.000	0.709	165.947	196.637	499.988	-3.062	-0.915	0.314	3.195
600.000	0.439	190.605	189.777	599.985	-3.709	-0.639	0.304	3.763
700.000	0.522	198.567	187.356	699.982	-4.429	-0.572	0.109	4.465
800.000	0.698	181.981	189.432	799.976	-5.358	-0.890	0.253	5.431
900.000	0.584	176.501	190.396	899.971	-6.202	-1.138	0.059	6.305
1000.000	0.559	214.835	193.482	999.967	-6.869	-1.647	0.372	7.064
1100.000	0.410	228.254	197.449	1099.963	-7.371	-2.317	0.187	7.727
1200.000	0.558	267.504	201.844	1199.959	-7.701	-3.087	0.351	8.297
1300.000	0.510	252.142	205.578	1299.954	-8.117	-3.885	0.161	8.999
1400.000	0.551	242.542	208.276	1399.950	-8.572	-4.611	0.102	9.734
1500.000	0.510	191.232	210.058	1499.945	-9.221	-5.336	0.527	10.654
1600.000	0.504	261.606	210.361	1599.941	-9.761	-5.718	0.698	11.313
1700.000	0.327	222.250	210.487	1699.938	-10.386	-6.115	0.293	12.052
1800.000	0.490	193.143	209.630	1799.935	-11.017	-6.266	0.257	12.674
1900.000	0.201	126.905	208.019	1899.932	-11.696	-6.224	0.445	13.249
2000.000	0.414	165.445	205.259	1999.928	-12.374	-5.838	0.287	13.682
2100.000	0.896	135.956	200.600	2099.919	-13.221	-4.969	0.584	14.124
2200.000	0.965	126.944	194.851	2199.908	-13.966	-3.703	0.139	14.449
2300.000	0.747	122.062	189.742	2299.898	-14.725	-2.528	0.401	14.941

2400.000	0.623	172.175	186.808	2399.893	-15.331	-1.830	0.602	15.440
2500.000	0.516	189.352	186.286	2499.888	-16.283	-1.794	0.168	16.381
2600.000	0.572	202.571	186.079	2599.882	-17.296	-1.842	0.145	17.394
2700.000	0.267	171.776	185.848	2699.876	-18.254	-1.870	0.408	18.350
2800.000	0.729	233.466	186.311	2799.870	-19.167	-2.120	0.642	19.284
2900.000	0.738	237.490	187.583	2899.863	-20.111	-2.678	0.090	20.289
3000.000	0.744	225.744	189.763	2999.855	-20.839	-3.586	0.151	21.145
3100.000	0.892	262.526	191.779	3099.850	-21.303	-4.442	0.548	21.761
3200.000	0.958	223.083	194.516	3199.838	-21.960	-5.686	0.625	22.684
3300.000	0.770	235.343	196.736	3299.829	-22.539	-6.777	0.348	23.536
3400.000	0.581	242.004	198.760	3399.821	-23.126	-7.855	0.134	24.424
3500.000	0.924	211.040	200.577	3499.812	-23.842	-8.951	0.541	25.467
3600.000	0.909	254.213	202.775	3599.802	-24.161	-10.144	0.664	26.204
3700.000	1.196	266.647	206.030	3699.785	-24.457	-11.945	0.371	27.218
3800.000	1.111	249.180	209.775	3799.756	-24.825	-14.203	0.357	28.600
3900.000	1.851	263.486	213.541	3899.721	-25.235	-16.729	0.806	30.277
4000.000	1.689	255.695	216.643	3999.684	-25.964	-19.312	0.277	32.358
4100.000	1.062	255.594	219.162	4099.654	-26.597	-21.662	0.602	34.302
4200.000	1.009	222.758	220.951	4199.630	-27.245	-23.642	0.722	36.073
4300.000	1.492	263.434	222.183	4299.611	-27.960	-25.338	0.963	37.733
4400.000	1.271	258.012	223.524	4399.591	-28.602	-27.165	0.135	39.446
4500.000	0.842	273.721	224.958	4499.576	-28.886	-28.843	0.512	40.820
4600.000	0.750	309.935	226.880	4599.561	-28.531	-30.467	0.490	41.740
4700.000	1.405	331.494	229.731	4699.539	-26.878	-31.729	0.675	41.583
4800.000	1.282	345.844	232.821	4799.513	-24.938	-32.879	0.346	41.267
4900.000	1.036	323.696	236.005	4899.483	-22.785	-33.787	0.555	40.752
5000.000	1.126	354.019	238.304	4999.466	-21.113	-34.190	0.571	40.184
5100.000	0.585	327.882	240.312	5099.455	-19.755	-34.651	0.719	39.887
5200.000	0.647	355.423	241.691	5199.449	-18.774	-34.855	0.276	39.590
5300.000	0.610	10.164	242.786	5299.445	-18.129	-35.254	0.189	39.643
5400.000	0.436	264.056	244.017	5399.439	-17.465	-35.836	0.824	39.866
5500.000	0.461	337.882	244.890	5499.436	-17.024	-36.325	0.490	40.116
5600.000	0.159	262.744	245.840	5599.432	-16.557	-36.909	0.391	40.452
5700.000	0.470	293.962	246.536	5699.430	-16.173	-37.259	0.304	40.618
5800.000	0.298	218.055	246.549	5799.427	-16.289	-37.550	0.504	40.931
5900.000	0.136	226.764	245.860	5899.424	-16.893	-37.696	0.215	41.308
6000.000	0.348	312.221	245.600	5999.421	-17.340	-38.225	0.353	41.974
6100.000	0.287	251.662	246.029	6099.415	-17.399	-39.132	0.311	42.825
6200.000	0.850	303.185	247.104	6199.409	-16.835	-39.862	0.684	43.271
6300.000	0.820	332.556	248.268	6299.403	-16.171	-40.571	0.388	43.675
6400.000	1.146	322.500	250.073	6399.392	-14.986	-41.338	0.338	43.971
6500.000	1.140	341.699	251.767	6499.382	-13.820	-41.954	0.382	44.172
6600.000	1.161	305.680	254.254	6599.360	-12.117	-42.976	0.705	44.651
6700.000	1.449	309.883	256.892	6699.334	-10.307	-44.267	0.352	45.451
6800.000	1.358	305.679	258.949	6799.313	-8.927	-45.707	0.111	46.571
6900.000	1.389	263.602	259.663	6899.288	-8.710	-47.755	0.990	48.543
7000.000	2.630	183.790	256.405	6999.204	-11.998	-49.615	2.797	51.045
7100.000	2.809	168.188	250.298	7099.034	-17.746	-49.558	0.770	52.639
7200.000	2.229	143.224	245.346	7198.926	-21.996	-47.925	1.263	52.732

