

GyroTracer Directional:

Date: 10/26/2018
 Operator : Adrian Bruner
 API: 05-123-22731
 Well Name: **Peterson 21-21**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7000.00
 Total Well Depth: 7287.00
 Latitude : 40.476514 N
 Longitude : 104.67098 W
 Grid Offset : 0.53

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

Northing: 0.00 Easting: 0.00 Altitude: 4722.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/26/2018 12:57

End Time: 10/26/2018 14:01

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	0.120	66.787	63.435	100.000	0.090	0.180	0.120	0.201
200.000	0.245	337.071	32.663	199.999	0.096	0.061	0.246	0.114
300.000	0.110	172.740	301.060	299.998	0.052	-0.086	0.359	0.100
400.000	0.188	265.288	284.579	399.997	0.055	-0.213	0.391	0.220
500.000	0.358	169.160	260.409	499.997	-0.069	-0.410	0.445	0.416
600.000	0.363	295.971	263.053	599.995	-0.064	-0.523	0.593	0.527
700.000	0.291	229.260	254.537	699.993	-0.234	-0.847	0.378	0.879
800.000	0.290	237.961	254.546	799.992	-0.321	-1.161	0.030	1.205
900.000	0.279	294.184	253.949	899.992	-0.397	-1.380	0.263	1.436
1000.000	0.443	278.439	255.086	999.990	-0.445	-1.669	0.236	1.728
1100.000	0.078	68.344	253.710	1099.989	-0.575	-1.967	0.484	2.050
1200.000	0.420	217.349	257.113	1199.987	-0.549	-2.400	0.582	2.462
1300.000	0.295	306.946	255.340	1299.986	-0.679	-2.596	0.487	2.684
1400.000	0.194	187.923	255.178	1399.983	-0.782	-2.955	0.445	3.057
1500.000	0.344	251.068	255.205	1499.982	-0.852	-3.227	0.319	3.338
1600.000	0.106	326.697	254.192	1599.981	-0.972	-3.432	0.314	3.567
1700.000	0.292	178.296	253.824	1699.980	-1.026	-3.538	0.432	3.684
1800.000	0.250	291.929	253.813	1799.979	-1.010	-3.478	0.469	3.621
1900.000	0.259	335.292	256.530	1899.978	-0.850	-3.548	0.200	3.648
2000.000	0.276	27.343	258.692	1999.977	-0.711	-3.558	0.245	3.628
2100.000	0.136	15.002	263.122	2099.976	-0.427	-3.537	0.204	3.563
2200.000	0.261	3.343	271.238	2199.973	0.070	-3.249	0.153	3.250
2300.000	0.703	47.117	283.448	2299.969	0.664	-2.776	0.566	2.854

2400.000	0.557	56.803	300.390	2399.964	1.219	-2.079	0.212	2.410
2500.000	0.145	40.124	319.315	2499.960	1.847	-1.588	0.467	2.436
2600.000	0.238	16.191	337.322	2599.956	2.334	-0.975	0.133	2.529
2700.000	0.637	8.379	351.436	2699.951	3.083	-0.464	0.398	3.117
2800.000	0.540	6.262	1.044	2799.946	3.826	0.070	0.101	3.827
2900.000	0.734	41.366	6.586	2899.942	4.484	0.518	0.419	4.513
3000.000	0.716	45.287	10.236	2999.936	5.347	0.965	0.077	5.433
3100.000	0.817	19.109	14.065	3099.928	6.387	1.600	0.370	6.585
3200.000	0.534	1.304	16.186	3199.923	7.101	2.061	0.301	7.394
3300.000	0.590	36.908	17.573	3299.919	7.685	2.434	0.325	8.061
3400.000	0.547	55.325	19.128	3399.917	8.134	2.821	0.387	8.609
3500.000	0.468	43.024	21.043	3499.914	8.424	3.241	0.123	9.026
3600.000	0.144	147.163	20.223	3599.913	8.495	3.129	0.485	9.053
3700.000	0.166	156.152	18.932	3699.910	8.073	2.769	0.110	8.535
3800.000	0.530	244.027	17.718	3799.906	7.541	2.409	0.582	7.917
3900.000	0.560	226.902	16.242	3899.903	7.007	2.041	0.199	7.298
4000.000	0.220	246.324	16.112	3999.900	6.498	1.877	0.409	6.763
4100.000	0.348	313.980	15.811	4099.898	6.278	1.778	0.353	6.525
4200.000	0.414	22.733	14.838	4199.894	6.976	1.848	0.422	7.216
4300.000	1.173	8.372	11.628	4299.879	8.579	1.765	0.735	8.759
4400.000	1.822	357.924	7.775	4399.837	11.397	1.556	0.681	11.503
4500.000	1.897	348.673	2.983	4499.770	14.916	0.777	0.415	14.936
4600.000	2.050	339.067	359.891	4599.688	18.854	-0.036	0.407	18.854
4700.000	2.730	341.979	357.208	4699.603	22.781	-1.111	0.715	22.808
4800.000	2.781	351.344	355.032	4799.504	27.020	-2.349	0.553	27.122
4900.000	2.649	359.163	354.061	4899.407	31.273	-3.253	0.381	31.442
5000.000	2.304	344.561	353.840	4999.317	35.427	-3.824	0.704	35.632
5100.000	1.677	350.265	353.399	5099.246	39.102	-4.525	0.664	39.363
5200.000	1.384	350.580	352.817	5199.191	42.256	-5.325	0.327	42.590
5300.000	1.631	341.157	352.456	5299.157	44.739	-5.925	0.366	45.129
5400.000	1.218	359.042	352.142	5399.124	47.180	-6.512	0.729	47.628
5500.000	1.843	358.142	352.611	5499.085	49.908	-6.472	0.601	50.326
5600.000	1.763	4.988	353.597	5599.035	52.974	-5.945	0.243	53.307
5700.000	1.092	37.153	354.620	5698.993	55.675	-5.243	1.096	55.921
5800.000	0.842	359.321	355.462	5798.978	57.210	-4.541	0.708	57.390
5900.000	0.421	67.690	355.989	5898.971	58.141	-4.077	0.813	58.284
6000.000	0.594	32.871	355.965	5998.967	58.650	-4.137	0.347	58.796
6100.000	0.591	338.997	355.837	6098.964	59.166	-4.306	0.489	59.323
6200.000	0.496	308.540	355.545	6198.962	59.619	-4.645	0.329	59.799
6300.000	0.173	289.416	355.235	6298.959	60.054	-5.006	0.340	60.262
6400.000	0.326	288.309	354.830	6398.955	60.617	-5.485	0.203	60.865
6500.000	0.681	312.483	354.745	6498.952	61.110	-5.621	0.499	61.368
6600.000	0.417	4.924	354.557	6598.949	61.485	-5.859	0.641	61.763
6700.000	0.652	348.332	354.454	6698.945	62.144	-6.035	0.285	62.436
6800.000	0.674	30.533	354.522	6798.939	63.024	-6.044	0.583	63.313
6900.000	0.524	2.897	354.708	6898.930	64.271	-5.954	0.236	64.546
7000.000	0.570	54.219	355.271	6998.923	64.926	-5.371	0.413	65.147