

GyroTracer Directional:

Date: 12/10/2018
 Operator : Adrian Bruner
 API: 05-123-23353
 Well Name: **Steve J 30-6**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 7550.00
 Total Well Depth: 7796.00
 Latitude : 40.37254 N
 Longitude : 104.82973 W
 Grid Offset : 0.43

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

Northing: 0.00 Easting: 0.00 Altitude: 4958.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 12/10/2018 10:48

End Time: 12/10/2018 12:37

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	0.500	78.979	82.147	100.000	0.120	0.870	0.500	0.878
200.000	0.253	322.697	72.395	199.998	0.384	1.209	0.677	1.269
300.000	0.260	47.430	71.754	299.997	0.440	1.334	0.338	1.405
400.000	0.291	28.676	70.243	399.996	0.519	1.446	0.094	1.536
500.000	0.161	95.535	63.603	499.995	0.668	1.346	0.303	1.503
600.000	0.409	316.723	48.766	599.994	1.116	1.273	0.530	1.693
700.000	0.423	339.787	37.719	699.992	1.579	1.221	0.206	1.996
800.000	0.449	326.871	30.146	799.990	2.039	1.184	0.102	2.357
900.000	0.400	80.455	29.477	899.988	2.364	1.336	0.669	2.716
1000.000	2.427	106.280	65.449	999.953	1.662	3.639	2.100	4.000
1100.000	4.176	90.634	83.827	1099.764	1.045	9.663	1.988	9.719
1200.000	6.309	88.051	85.997	1199.318	1.331	19.020	2.161	19.067
1300.000	8.482	91.408	87.529	1298.487	1.374	31.824	2.206	31.853
1400.000	10.206	92.606	89.121	1397.201	0.732	47.763	1.737	47.769
1500.000	12.574	90.289	89.754	1495.175	0.291	67.759	2.399	67.760
1600.000	13.120	89.733	89.735	1592.633	0.417	90.158	0.558	90.159
1700.000	13.470	93.758	90.059	1689.898	-0.118	113.372	0.984	113.372
1800.000	13.546	102.319	91.538	1787.176	-3.659	136.245	1.996	136.295
1900.000	14.577	102.174	93.252	1884.187	-9.086	159.893	1.054	160.151
2000.000	15.011	93.061	93.860	1980.782	-12.515	185.514	2.350	185.935
2100.000	15.427	89.656	93.495	2077.320	-12.924	211.585	0.984	211.979
2200.000	15.410	89.329	93.048	2173.765	-12.672	238.007	0.081	238.345
2300.000	16.052	92.233	92.884	2269.788	-13.394	265.906	1.018	266.244

2400.000	16.120	92.435	92.879	2365.871	-14.764	293.583	0.080	293.954
2500.000	16.022	90.656	92.745	2461.924	-15.408	321.393	0.490	321.762
2600.000	16.562	89.074	92.533	2557.808	-15.472	349.785	0.709	350.127
2700.000	16.452	89.763	92.313	2653.647	-15.280	378.327	0.245	378.636
2800.000	17.309	91.287	92.207	2749.267	-15.711	407.581	0.981	407.884
2900.000	17.992	92.022	92.171	2844.554	-16.599	437.902	0.719	438.216
3000.000	17.268	92.409	92.160	2939.767	-17.666	468.453	0.745	468.786
3100.000	16.581	92.124	92.178	3035.491	-18.918	497.347	0.678	497.707
3200.000	16.640	93.044	92.223	3131.184	-20.427	526.336	0.273	526.732
3300.000	15.970	92.141	92.257	3227.370	-21.823	553.650	0.720	554.080
3400.000	15.592	90.628	92.200	3323.614	-22.316	580.791	0.546	581.220
3500.000	15.722	89.270	92.097	3419.769	-22.273	608.250	0.381	608.657
3600.000	15.640	88.569	91.989	3516.110	-22.056	635.049	0.214	635.432
3700.000	15.560	89.346	91.879	3612.583	-21.701	661.367	0.235	661.723
3800.000	15.449	89.157	91.770	3709.016	-21.261	687.832	0.113	688.160
3900.000	15.826	88.867	91.666	3805.254	-20.799	714.992	0.393	715.295
4000.000	17.775	90.704	91.592	3900.861	-20.688	744.283	2.044	744.570
4100.000	18.303	89.732	91.532	3995.920	-20.735	775.326	0.602	775.603
4200.000	18.272	90.204	91.470	4090.927	-20.691	806.529	0.159	806.794
4300.000	17.466	89.150	91.404	4186.048	-20.520	837.377	0.890	837.628
4400.000	16.468	89.041	91.324	4281.678	-20.035	866.601	1.013	866.833
4500.000	16.650	91.237	91.273	4377.507	-19.897	895.175	0.664	895.396
4600.000	16.085	91.246	91.282	4473.442	-20.669	923.385	0.569	923.616
4700.000	15.870	91.889	91.299	4569.761	-21.540	950.249	0.282	950.493
4800.000	18.310	90.876	91.290	4665.388	-22.054	979.467	2.460	979.716
4900.000	17.235	91.517	91.282	4760.585	-22.598	1010.074	1.099	1010.327
5000.000	17.036	91.452	91.298	4856.251	-23.538	1039.176	0.230	1039.443
5100.000	17.590	89.713	91.267	4951.658	-23.653	1069.129	0.754	1069.390
5200.000	16.761	89.316	91.222	5047.170	-23.429	1098.743	0.853	1098.993
5300.000	17.077	88.280	91.162	5142.978	-22.867	1127.378	0.433	1127.610
5400.000	15.951	87.635	91.085	5239.005	-21.876	1155.237	1.132	1155.444
5500.000	14.680	88.533	91.005	5335.310	-20.744	1182.120	1.342	1182.302
5600.000	14.759	88.991	90.948	5431.658	-19.997	1208.871	0.132	1209.037
5700.000	14.642	86.064	90.872	5528.350	-18.778	1234.346	0.735	1234.488
5800.000	12.760	87.075	90.784	5625.662	-17.211	1257.288	1.868	1257.406
5900.000	14.382	88.457	90.720	5722.929	-16.090	1280.454	1.670	1280.555
6000.000	13.475	90.486	90.695	5819.799	-15.845	1305.261	1.035	1305.357
6100.000	14.866	98.626	90.775	5916.804	-17.988	1329.418	2.427	1329.540
6200.000	13.330	98.704	90.917	6013.622	-21.664	1354.143	1.558	1354.316
6300.000	10.243	97.235	91.023	6111.511	-24.540	1374.302	3.127	1374.521
6400.000	7.933	100.313	91.111	6210.157	-26.969	1390.463	2.371	1390.725
6500.000	5.815	98.942	91.182	6309.410	-28.941	1402.455	2.156	1402.753
6600.000	4.910	104.389	91.245	6409.033	-30.654	1410.917	1.022	1411.250
6700.000	3.656	115.994	91.292	6508.785	-31.983	1417.735	1.530	1418.096
6800.000	2.560	104.753	91.367	6608.612	-33.961	1423.210	1.425	1423.615
6900.000	1.925	102.917	91.421	6708.512	-35.404	1427.356	0.522	1427.795
7000.000	1.439	77.431	91.446	6808.456	-36.109	1430.587	0.910	1431.042
7100.000	1.405	106.848	91.451	6908.426	-36.301	1432.882	0.669	1433.341
7200.000	1.124	95.952	91.453	7008.405	-36.406	1434.843	0.390	1435.305
7300.000	0.520	104.403	91.445	7108.397	-36.217	1435.971	0.413	1436.428

7400.000	0.493	28.705	91.435	7208.390	-35.991	1436.897	0.630	1437.347
7500.000	0.639	17.870	91.418	7308.385	-35.595	1437.541	0.158	1437.982
7550.000	0.380	354.700	91.412	7358.534	-35.445	1437.653	0.264	1438.090