

GyroTracer Directional:

Date: 9/6/2018
 Operator : Adrian Bruner
 API: 05-123-24281
 Well Name : **Garand USX AB 19-11**
 Field : Noble Energy Inc
 Tool Type And Number: 1717
 Bottom Depth : 7050.00
 Total Well Depth: 7350.00
 Latitude : 40.55652 N
 Longitude : 104.59495 W
 Grid Offset : 0.58

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

Northing: 0.00 Easting: 0.00 Altitude: 4894.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 9/6/2018 13:28

End Time: 9/6/2018 15:08

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
100.030	0.920	150.915	141.621	100.020	-1.250	0.990	0.920	1.595
200.000	0.390	132.901	138.323	199.982	-2.066	1.840	0.566	2.767
300.000	0.678	113.546	138.148	299.977	-2.791	2.500	0.356	3.747
400.000	0.647	136.268	137.749	399.972	-3.458	3.141	0.264	4.672
500.000	0.640	99.852	132.727	499.966	-3.848	4.166	0.409	5.671
600.000	0.610	146.490	130.695	599.960	-4.345	5.052	0.474	6.663
700.000	0.636	112.694	130.460	699.956	-4.932	5.783	0.389	7.600
800.000	0.527	118.406	128.107	799.952	-5.131	6.543	0.085	8.315
900.000	0.652	107.946	124.995	899.944	-5.430	7.756	0.116	9.468
1000.000	1.042	103.769	123.416	999.933	-5.984	9.070	0.416	10.866
1100.000	0.998	137.806	122.119	1099.921	-6.582	10.485	0.566	12.380
1200.000	1.008	105.548	121.460	1199.904	-7.426	12.137	0.533	14.229
1300.000	0.968	125.779	120.586	1299.888	-8.135	13.762	0.375	15.987
1400.000	0.938	121.567	121.052	1399.870	-9.195	15.272	0.080	17.826
1500.000	1.139	126.251	121.818	1499.855	-10.301	16.603	0.241	19.539
1600.000	1.131	126.899	122.170	1599.838	-11.358	18.057	0.043	21.332
1700.000	1.044	126.656	122.566	1699.824	-12.382	19.387	0.027	23.004
1800.000	0.602	135.074	123.209	1799.814	-13.331	20.365	0.379	24.340
1900.000	0.672	159.256	124.217	1899.808	-14.256	20.963	0.279	25.351
2000.000	0.579	153.639	125.401	1999.802	-15.223	21.421	0.165	26.279
2100.000	0.355	171.116	126.433	2099.797	-16.042	21.733	0.249	27.013
2200.000	0.337	130.377	127.192	2199.794	-16.737	22.057	0.284	27.689
2300.000	0.334	120.787	126.806	2299.791	-17.033	22.764	0.101	28.431

2400.000	0.441	81.087	126.147	2399.787	-17.213	23.564	0.279	29.181
2500.000	0.589	44.675	124.875	2499.784	-16.799	24.103	0.336	29.380
2600.000	0.344	11.216	123.112	2599.780	-16.031	24.580	0.311	29.346
2700.000	0.595	27.325	121.799	2699.777	-15.510	25.016	0.250	29.434
2800.000	0.415	26.952	120.410	2799.774	-14.828	25.264	0.197	29.294
2900.000	0.490	1.434	118.725	2899.770	-13.937	25.430	0.215	28.999
3000.000	0.466	20.010	117.295	2999.767	-13.210	25.600	0.173	28.807
3100.000	0.557	349.665	115.329	3099.762	-12.180	25.733	0.250	28.470
3200.000	0.451	350.855	113.883	3199.758	-11.320	25.566	0.150	27.960
3300.000	0.674	2.005	112.122	3299.753	-10.407	25.600	0.226	27.635
3400.000	0.535	348.382	110.354	3399.747	-9.381	25.288	0.226	26.972
3500.000	0.827	339.142	107.932	3499.739	-8.106	25.048	0.263	26.327
3600.000	0.783	352.989	105.713	3599.731	-6.940	24.668	0.182	25.625
3700.000	0.840	92.061	103.807	3699.724	-6.117	24.893	1.227	25.633
3800.000	1.133	130.610	103.894	3799.710	-6.528	26.391	0.723	27.186
3900.000	1.253	144.645	106.004	3899.685	-8.050	28.065	0.327	29.196
4000.000	1.179	147.303	108.003	3999.663	-9.573	29.457	0.099	30.973
4100.000	1.368	139.853	110.479	4099.639	-11.423	30.586	0.290	32.649
4200.000	1.408	147.147	112.976	4199.609	-13.518	31.882	0.219	34.630
4300.000	1.163	143.331	115.066	4299.583	-15.460	33.054	0.256	36.491
4400.000	1.286	157.105	117.052	4399.560	-17.368	34.011	0.338	38.189
4500.000	1.318	146.030	118.749	4499.531	-19.356	35.284	0.267	40.244
4600.000	1.728	149.528	120.332	4599.499	-21.471	36.696	0.346	42.516
4700.000	2.309	155.663	123.051	4699.431	-24.825	38.153	0.703	45.519
4800.000	2.452	138.869	125.596	4799.343	-28.598	39.952	0.702	49.133
4900.000	2.698	146.834	127.639	4899.247	-32.424	42.044	0.464	53.094
5000.000	2.980	150.344	129.439	4999.123	-36.686	44.601	0.362	57.750
5100.000	2.299	150.791	130.754	5099.030	-40.337	46.806	0.629	61.790
5200.000	1.956	152.573	131.984	5198.964	-43.585	48.434	0.300	65.158
5300.000	1.404	146.293	132.850	5298.921	-46.165	49.766	0.536	67.881
5400.000	0.989	142.516	133.152	5398.898	-47.836	51.026	0.359	69.942
5500.000	0.944	141.858	133.281	5498.884	-49.114	52.153	0.314	71.639
5600.000	0.964	158.628	133.671	5598.871	-50.506	52.906	0.290	73.143
5700.000	1.222	167.528	134.391	5698.854	-52.279	53.403	0.320	74.733
5800.000	1.354	166.101	135.249	5798.829	-54.427	53.955	0.207	76.638
5900.000	1.419	158.883	136.099	5898.798	-56.814	54.676	0.185	78.850
6000.000	1.290	157.749	136.626	5998.773	-58.804	55.558	0.097	80.899
6100.000	0.653	142.206	136.918	6098.762	-60.116	56.220	0.564	82.308
6200.000	0.365	98.652	136.806	6198.759	-60.533	56.832	0.503	83.031
6300.000	0.560	28.300	136.372	6298.757	-60.264	57.446	0.531	83.257
6400.000	0.800	16.183	135.616	6398.749	-59.151	57.892	0.325	82.767
6500.000	1.078	0.309	134.666	6498.735	-57.476	58.151	0.362	81.763
6600.000	0.594	10.784	133.837	6598.721	-55.893	58.209	0.485	80.699
6700.000	0.594	154.038	133.493	6698.718	-55.718	58.729	1.088	80.954
6800.000	1.493	152.042	134.102	6798.696	-57.587	59.421	0.868	82.747
6900.000	1.725	164.901	134.868	6898.657	-60.163	60.440	0.454	85.279
7000.000	1.405	155.233	135.699	6998.608	-63.058	61.537	0.537	88.108
7050.250	1.250	175.610	136.084	7048.845	-64.142	61.759	0.860	89.042