

GyroTracer Directional:

Date: 4/23/2019
 Operator : Adrian Bruner
 API : 05-123-16304
 Well Name : **Sinjin 36-10**
 Field : Noble Energy Inc
 Tool Number: 1820
 Bottom Depth : 6887.89
 Total Well Depth: 7057.00
 Latitude : 40.44027 N
 Longitude : 104.60876 W
 Grid Offset : 0.58
 Datum: NAD 83



Starting Point Coordinates (in local grid):

Northing: 0.00 Easting: 0.00 GLE: 4631.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Lat/Long/Elevation obtained by handheld GPS at wellhead. Device error ± 9 Feet

RKB = Ground Level Elevation

Start Time: 4/23/2019 15:36

End Time: 4/23/2019 16:41

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
100.000	0.560	31.301	35.470	99.990	0.800	0.570	0.560	0.982
200.000	0.446	41.906	24.496	199.986	1.632	0.743	0.150	1.793
300.000	0.485	35.330	24.146	299.982	2.329	1.044	0.065	2.552
400.000	0.770	14.411	20.186	399.978	3.251	1.195	0.325	3.463
500.000	0.578	3.946	15.762	499.969	4.496	1.269	0.174	4.672
600.000	0.890	9.981	11.926	599.960	5.842	1.234	0.134	5.970
700.000	0.921	6.443	9.496	699.950	7.229	1.209	0.061	7.330
800.000	0.591	7.464	7.403	799.939	8.670	1.127	0.274	8.743
900.000	0.830	347.579	6.692	899.927	10.184	1.195	0.336	10.254
1000.000	0.691	1.335	5.813	999.917	11.536	1.174	0.212	11.596
1100.000	1.013	10.126	5.554	1099.905	13.026	1.267	0.325	13.087
1200.000	0.779	358.039	4.385	1199.892	14.665	1.124	0.202	14.708
1300.000	1.167	13.528	4.410	1299.874	16.467	1.270	0.415	16.516
1400.000	1.146	25.162	4.409	1399.851	18.581	1.433	0.221	18.636
1500.000	1.338	8.175	5.027	1499.839	20.642	1.816	0.422	20.722
1600.000	1.305	358.568	4.790	1599.803	22.911	1.920	0.269	22.992
1700.000	1.309	335.468	3.812	1699.779	25.061	1.670	0.557	25.116
1800.000	1.205	321.651	1.949	1799.755	27.096	0.922	0.294	27.112
1900.000	1.038	337.000	0.327	1899.742	28.454	0.162	0.272	28.455
2000.000	1.055	353.530	359.442	1999.730	29.849	-0.291	0.318	29.850
2100.000	0.784	325.405	358.743	2099.719	31.285	-0.687	0.403	31.293
2200.000	0.730	329.438	357.785	2199.709	32.489	-1.256	0.080	32.513
2300.000	0.579	313.097	356.340	2299.698	33.615	-2.150	0.197	33.683
2400.000	0.934	304.800	354.913	2399.688	34.684	-3.088	0.258	34.821
2500.000	1.121	302.755	353.337	2499.677	35.604	-4.159	0.185	35.846
2600.000	1.025	315.050	351.919	2599.666	36.559	-5.191	0.315	36.926
2700.000	0.837	286.675	350.093	2699.652	37.507	-6.551	0.428	38.075
2800.000	1.020	311.726	348.723	2799.640	38.511	-7.679	0.431	39.269
2900.000	0.762	295.577	346.927	2899.626	39.231	-9.110	0.345	40.275
3000.000	0.940	284.810	345.046	2999.614	39.703	-10.604	0.264	41.095
3100.000	0.999	274.245	342.801	3099.598	39.939	-12.362	0.195	41.809
3200.000	1.059	259.569	340.536	3199.583	39.838	-14.079	0.244	42.253
3300.000	0.899	239.824	338.107	3299.566	39.292	-15.790	0.265	42.346
3400.000	0.560	222.124	336.729	3399.559	38.483	-16.550	0.585	41.891
3500.000	0.593	181.296	335.862	3499.555	37.663	-16.878	0.402	41.272
3600.000	0.376	200.110	335.265	3599.550	36.857	-16.979	0.269	40.580
3700.000	0.709	218.705	333.977	3699.545	36.211	-17.679	0.289	40.296
3800.000	0.850	178.023	332.567	3799.537	35.181	-18.262	0.528	39.638
3900.000	0.585	199.495	331.129	3899.530	34.243	-18.881	0.262	39.104
4000.000	0.348	246.137	330.055	3999.526	33.635	-19.376	0.348	38.816
4100.000	0.322	225.383	329.733	4099.525	33.521	-19.562	0.186	38.811
4200.000	0.710	349.490	330.443	4199.520	34.479	-19.553	0.503	39.638
4300.000	1.231	349.190	331.556	4299.499	36.435	-19.737	0.610	41.438
4400.000	1.713	332.233	332.355	4399.465	38.910	-20.380	0.300	43.924
4500.000	2.183	325.916	332.089	4499.412	41.653	-22.064	0.566	47.136
4600.000	2.497	302.177	330.940	4599.326	44.688	-24.832	0.983	51.124
4700.000	2.641	334.527	330.347	4699.231	48.147	-27.410	1.586	55.402
4800.000	2.380	342.008	330.736	4799.141	51.992	-29.133	0.409	59.508
4900.000	1.923	342.219	331.421	4899.064	55.715	-30.351	0.489	63.446
5000.000	0.457	283.327	331.334	4999.030	57.715	-31.554	1.701	65.777
5100.000	0.240	260.861	330.795	5099.028	57.630	-32.214	0.381	66.022
5200.000	0.337	338.220	330.521	5199.026	57.777	-32.660	0.362	66.369
5300.000	0.457	300.538	330.318	5299.024	57.952	-33.031	0.282	66.705
5400.000	0.667	226.104	329.624	5399.020	57.542	-33.727	0.702	66.698
5500.000	0.875	198.788	328.432	5499.009	56.480	-34.703	0.421	66.289
5600.000	0.746	226.055	327.281	5598.997	55.261	-35.502	0.389	65.682
5700.000	0.898	178.858	326.242	5698.987	54.124	-36.175	0.717	65.100
5800.000	0.535	177.468	325.991	5798.983	53.652	-36.200	0.371	64.722
5900.000	0.277	112.201	326.072	5898.980	53.369	-35.900	0.576	64.320
6000.000	0.365	77.386	326.285	5998.979	53.275	-35.550	0.237	64.047
6100.000	0.415	5.805	326.677	6098.977	53.529	-35.194	0.534	64.062
6200.000	0.376	71.681	327.024	6198.976	53.633	-34.798	0.389	63.933
6300.000	0.237	45.702	327.508	6298.974	54.127	-34.472	0.126	64.172
6400.000	0.510	30.492	327.937	6398.971	54.689	-34.258	0.281	64.533
6500.000	0.430	342.559	328.328	6498.968	55.408	-34.183	0.488	65.104
6600.000	0.213	304.102	328.645	6598.966	55.996	-34.120	0.453	65.572
6700.000	0.603	11.067	329.009	6698.963	56.506	-33.940	0.530	65.915
6800.000	0.460	17.632	329.402	6798.960	57.187	-33.817	0.140	66.438
6887.890	0.390	48.990	329.708	6886.848	57.615	-33.657	0.210	66.725