

GyroTracer Directional:

Date: 12/3/2018
 Operator : Adrian Bruner
 API: 05-123-24538
 Well Name: **Torres USX AB 35-9**
 Field : Noble Energy Inc
 Tool Type And Number: 1719
 Bottom Depth : 6850.00
 Total Well Depth: 7168.00
 Latitude : 40.52805 N
 Longitude : 104.5101 W
 Grid Offset : 0.64

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

Northing: 0.00 Easting: 0.00 Altitude: 4798.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 12/3/2018 11:00

End Time: 12/3/2018 12:04

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	0.300	179.643	182.203	100.000	-0.520	-0.020	0.300	0.520
200.000	0.227	168.800	171.799	199.999	-1.009	0.145	0.084	1.019
300.000	0.640	184.783	181.415	299.996	-1.572	-0.039	0.496	1.573
400.000	0.566	178.989	170.480	399.992	-2.298	0.385	0.097	2.330
500.000	0.705	164.975	166.528	499.986	-3.265	0.782	0.221	3.357
600.000	0.894	164.103	165.141	599.979	-4.352	1.155	0.101	4.503
700.000	0.350	197.735	164.154	699.974	-5.189	1.473	0.587	5.394
800.000	0.348	155.089	162.219	799.972	-5.522	1.771	0.366	5.799
900.000	0.428	7.887	159.696	899.971	-5.558	2.057	0.827	5.927
1000.000	0.840	339.915	156.652	999.963	-4.344	1.875	0.464	4.732
1100.000	0.417	336.526	158.734	1099.957	-3.424	1.333	0.421	3.674
1200.000	0.858	340.247	153.967	1199.952	-2.521	1.232	0.468	2.806
1300.000	0.393	321.374	161.274	1299.945	-1.634	0.554	0.471	1.725
1400.000	0.723	344.265	151.108	1399.941	-0.773	0.427	0.375	0.883
1500.000	0.310	346.796	130.799	1499.938	-0.137	0.158	0.428	0.209
1600.000	0.655	351.069	14.821	1599.934	0.777	0.205	0.323	0.803
1700.000	0.403	321.768	356.721	1699.928	1.795	-0.103	0.358	1.798
1800.000	0.278	301.372	355.723	1799.926	2.217	-0.166	0.204	2.223
1900.000	0.303	287.627	348.746	1899.925	2.126	-0.423	0.062	2.168
2000.000	0.397	230.549	331.537	1999.923	1.910	-1.036	0.341	2.173
2100.000	0.787	210.735	300.897	2099.917	1.006	-1.681	0.419	1.958
2200.000	0.802	205.157	268.669	2199.909	-0.054	-2.340	0.065	2.341
2300.000	0.955	219.629	248.824	2299.899	-1.204	-3.107	0.294	3.332

2400.000	1.374	197.013	232.407	2399.876	-3.081	-4.001	0.633	5.050
2500.000	1.460	175.852	217.781	2499.842	-5.667	-4.393	0.511	7.170
2600.000	1.109	179.256	207.455	2599.811	-8.119	-4.218	0.450	9.150
2700.000	1.340	175.620	201.880	2699.790	-10.153	-4.077	0.251	10.941
2800.000	1.242	152.286	195.190	2799.758	-12.533	-3.403	0.515	12.987
2900.000	1.263	155.484	190.445	2899.732	-14.712	-2.712	0.074	14.960
3000.000	0.950	168.726	186.864	2999.713	-16.480	-1.984	0.443	16.599
3100.000	1.506	141.216	182.894	3099.674	-19.022	-0.962	0.894	19.047
3200.000	1.227	145.513	178.646	3199.645	-20.955	0.495	0.272	20.961
3300.000	0.773	132.975	174.888	3299.616	-22.730	2.033	0.514	22.821
3400.000	0.346	161.114	173.701	3399.612	-23.422	2.585	0.474	23.565
3500.000	0.189	2.345	173.665	3499.612	-23.328	2.590	0.561	23.472
3600.000	0.935	64.824	171.558	3599.606	-22.920	3.402	0.866	23.171
3700.000	1.364	42.534	166.874	3699.584	-21.730	5.067	0.609	22.313
3800.000	1.441	51.687	161.990	3799.564	-20.703	6.731	0.259	21.769
3900.000	1.102	58.573	157.490	3899.543	-19.132	7.929	0.314	20.710
4000.000	1.311	14.925	152.462	3999.521	-17.443	9.095	0.947	19.672
4100.000	0.940	68.129	147.201	4099.502	-16.114	10.384	0.881	19.170
4200.000	0.420	114.982	142.691	4199.489	-15.360	11.705	0.762	19.312
4300.000	0.729	132.621	140.328	4299.480	-15.536	12.886	0.315	20.185
4400.000	0.860	158.033	140.942	4399.473	-16.441	13.341	0.429	21.172
4500.000	1.022	162.708	142.474	4499.465	-17.588	13.508	0.185	22.177
4600.000	0.446	160.709	144.447	4599.457	-18.809	13.443	0.423	23.119
4700.000	0.517	236.466	146.892	4699.450	-19.724	12.862	0.623	23.547
4800.000	0.613	218.829	150.072	4799.440	-20.571	11.842	0.177	23.736
4900.000	1.022	263.720	153.401	4899.429	-21.189	10.611	0.734	23.698
5000.000	0.980	247.012	158.204	4999.408	-21.866	8.744	0.316	23.549
5100.000	1.392	247.759	163.404	5099.384	-22.494	6.704	0.487	23.472
5200.000	1.126	253.898	168.224	5199.363	-23.133	4.823	0.281	23.630
5300.000	0.432	217.934	171.427	5299.351	-23.876	3.599	0.763	24.146
5400.000	0.665	214.833	172.850	5399.344	-24.732	3.103	0.260	24.926
5500.000	0.497	225.098	173.806	5499.340	-25.318	2.748	0.483	25.467
5600.000	0.604	10.495	174.270	5599.338	-25.036	2.512	0.902	25.162
5700.000	0.264	37.642	174.273	5699.335	-24.323	2.439	0.420	24.445
5800.000	0.197	324.010	175.012	5799.332	-24.121	2.105	0.438	24.213
5900.000	0.136	168.376	176.016	5899.330	-24.347	1.696	0.338	24.406
6000.000	0.103	170.302	177.302	5999.327	-24.600	1.159	0.131	24.628
6100.000	0.513	207.684	178.623	6099.324	-24.873	0.598	0.457	24.880
6200.000	0.391	306.102	179.783	6199.321	-25.113	0.095	0.714	25.113
6300.000	0.531	228.159	181.460	6299.317	-25.235	-0.643	0.588	25.243
6400.000	0.587	245.334	182.709	6399.314	-25.159	-1.190	0.201	25.187
6500.000	0.494	296.020	183.709	6499.312	-25.269	-1.638	0.484	25.322
6600.000	0.516	210.615	184.913	6599.309	-25.504	-2.192	0.637	25.598
6700.000	0.497	262.927	185.830	6699.306	-25.878	-2.642	0.498	26.012
6800.000	0.474	227.554	186.919	6799.301	-26.505	-3.216	0.268	26.699
6850.000	0.850	196.660	186.872	6849.339	-26.859	-3.237	0.635	27.053