

GyroTracer Directional:

Date: 10/9/2018
 Operator : Adrian Bruner
 API: 05-123-24611
 Well Name: **Ary USX AB 31-14**
 Field : Noble Energy Inc
 Tool Type And Number: 1605
 Bottom Depth : 7000.00
 Total Well Depth: 7289.00
 Latitude : 40.52398 N
 Longitude : 104.5949 W
 Grid Offset : 0.58

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

Northing: 0.00 Easting: 0.00 Altitude: 4780.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 10/9/2018 14:58

End Time: 10/9/2018 16:07

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	0.320	7.085	17.475	100.000	0.540	0.170	0.320	0.566
200.000	0.172	208.674	14.227	199.999	0.840	0.213	0.486	0.867
300.000	0.500	165.995	36.927	299.998	0.475	0.357	0.312	0.594
400.000	0.604	170.243	131.665	399.993	-0.451	0.507	0.113	0.679
500.000	0.366	151.808	156.975	499.987	-1.482	0.630	0.432	1.610
600.000	0.481	197.070	168.071	599.983	-2.394	0.506	0.280	2.447
700.000	0.478	204.576	176.469	699.979	-3.142	0.194	0.093	3.148
800.000	0.622	185.740	180.580	799.974	-3.989	-0.040	0.267	3.989
900.000	0.493	199.813	183.167	899.969	-4.981	-0.276	0.160	4.989
1000.000	0.495	203.017	187.286	999.963	-5.819	-0.744	0.175	5.866
1100.000	0.580	213.672	191.090	1099.958	-6.649	-1.303	0.080	6.776
1200.000	0.642	226.376	194.997	1199.953	-7.373	-1.975	0.170	7.633
1300.000	0.616	237.460	200.067	1299.946	-7.949	-2.904	0.134	8.463
1400.000	0.678	247.948	204.978	1399.940	-8.374	-3.901	0.224	9.238
1500.000	0.600	262.135	209.353	1499.934	-8.719	-4.903	0.185	10.003
1600.000	0.780	257.459	213.541	1599.927	-8.938	-5.925	0.197	10.724
1700.000	0.746	246.873	217.328	1699.920	-9.225	-7.035	0.046	11.601
1800.000	1.100	235.488	221.067	1799.907	-9.705	-8.456	0.344	12.872
1900.000	0.872	239.736	223.710	1899.893	-10.394	-9.936	0.235	14.379
2000.000	0.831	238.710	225.078	1999.881	-11.225	-11.256	0.142	15.896
2100.000	1.017	225.806	226.046	2099.869	-12.052	-12.500	0.403	17.364
2200.000	0.950	234.323	226.722	2199.855	-13.016	-13.823	0.109	18.987
2300.000	0.978	230.146	226.881	2299.837	-14.186	-15.150	0.145	20.755

2400.000	1.212	251.275	226.969	2399.821	-15.350	-16.443	0.417	22.494
2500.000	1.021	244.085	228.268	2499.803	-16.151	-18.108	0.138	24.264
2600.000	0.900	262.965	230.757	2599.786	-16.267	-19.915	0.320	25.714
2700.000	0.596	257.847	232.678	2699.776	-16.237	-21.297	0.316	26.781
2800.000	0.603	278.569	234.375	2799.769	-16.028	-22.367	0.271	27.517
2900.000	0.936	302.394	236.416	2899.760	-15.666	-23.594	0.295	28.322
3000.000	1.129	278.175	238.785	2999.745	-15.282	-25.218	0.459	29.487
3100.000	1.249	264.718	241.014	3099.724	-15.086	-27.231	0.380	31.131
3200.000	1.135	276.371	242.975	3199.703	-14.915	-29.241	0.257	32.825
3300.000	1.050	259.969	244.690	3299.683	-14.768	-31.229	0.321	34.545
3400.000	0.782	260.750	245.949	3399.668	-14.685	-32.906	0.339	36.034
3500.000	0.575	240.081	246.362	3499.660	-14.912	-34.072	0.267	37.192
3600.000	0.494	300.338	247.490	3599.653	-14.417	-34.788	0.553	37.657
3700.000	0.906	259.643	248.492	3699.629	-14.421	-36.593	0.605	39.332
3800.000	1.303	246.372	248.879	3799.608	-14.874	-38.504	0.444	41.277
3900.000	1.329	235.301	248.367	3899.582	-16.027	-40.412	0.260	43.475
4000.000	1.069	212.260	247.342	3999.556	-17.547	-42.036	0.491	45.552
4100.000	1.009	203.254	245.682	4099.530	-19.501	-43.154	0.307	47.356
4200.000	1.616	188.117	243.680	4199.503	-21.686	-43.840	0.316	48.910
4300.000	1.523	177.798	241.180	4299.473	-24.083	-43.771	0.270	49.959
4400.000	1.860	153.186	238.312	4399.424	-26.706	-43.261	0.739	50.840
4500.000	2.555	141.227	234.026	4499.350	-29.913	-41.212	0.783	50.923
4600.000	3.647	140.583	227.920	4599.200	-34.013	-37.670	1.270	50.753
4700.000	2.837	145.171	221.537	4699.029	-38.651	-34.240	0.836	51.636
4800.000	2.284	127.214	216.804	4798.934	-41.723	-31.217	0.957	52.108
4900.000	1.578	121.991	213.347	4898.882	-43.296	-28.491	0.733	51.830
5000.000	1.329	119.532	210.761	4998.854	-44.332	-26.386	0.310	51.590
5100.000	0.945	117.552	208.944	5098.839	-44.949	-24.859	0.249	51.366
5200.000	0.442	112.205	207.597	5198.831	-45.280	-23.669	0.591	51.093
5300.000	0.364	75.499	206.776	5298.827	-45.336	-22.876	0.317	50.780
5400.000	0.249	86.487	206.368	5398.825	-45.045	-22.329	0.212	50.276
5500.000	0.280	116.752	206.086	5498.821	-44.768	-21.918	0.139	49.846
5600.000	0.451	222.012	206.328	5598.820	-44.955	-22.245	0.618	50.158
5700.000	1.200	146.687	205.095	5698.805	-46.406	-21.733	1.120	51.243
5800.000	0.702	201.771	202.980	5798.781	-48.080	-20.389	0.981	52.225
5900.000	0.645	214.167	203.181	5898.766	-49.266	-21.096	1.214	53.593
6000.000	1.294	257.697	204.555	5998.749	-49.771	-22.739	0.971	54.720
6100.000	1.445	268.766	206.787	6098.718	-49.923	-25.203	0.269	55.924
6200.000	1.527	271.517	209.147	6198.680	-50.007	-27.888	0.116	57.257
6300.000	1.397	283.194	211.464	6298.644	-49.919	-30.548	0.280	58.524
6400.000	1.480	262.134	213.626	6398.607	-49.932	-33.208	0.521	59.966
6500.000	1.489	265.166	215.628	6498.569	-50.128	-35.925	0.100	61.672
6600.000	1.659	266.035	217.391	6598.531	-50.551	-38.636	0.164	63.626
6700.000	2.195	247.362	218.842	6698.484	-51.534	-41.497	0.808	66.165
6800.000	1.805	233.929	219.627	6798.428	-53.401	-44.220	0.743	69.333
6900.000	2.090	221.504	220.080	6898.363	-55.748	-46.912	0.406	72.860
7000.000	2.360	220.950	220.378	6998.280	-58.539	-49.781	0.196	76.844