

GyroTracer Directional:

Date: 5/23/2018
 Operator : Brandon McKnight
 API : 05-123-24179
 Well Name : Waste Management USX D35-9
 Field : Noble Energy Inc
 Tool Type And Number: 1609
 Bottom Depth : 6850.00
 Total Well Depth: 7559.00
 Latitude : 40.179837 N
 Longitude : 104.511686 W
 Grid Offset : 0.64

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

Northing: 0.00 Easting: 0.00 Altitude: 4866.00

Description:

Azimuth measured in degrees and referenced to local grid

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 5/21/2018 13:29

End Time: 5/21/2018 14:38

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	0.390	185.053	80.754	99.999	0.140	0.860	0.117	0.871
200.000	0.068	160.882	106.714	199.998	-0.255	0.849	0.099	0.887
300.000	0.502	142.273	120.046	299.997	-0.658	1.137	0.131	1.313
400.000	0.398	129.665	126.241	399.994	-1.226	1.672	0.043	2.074
500.000	0.259	209.123	131.956	499.993	-1.645	1.830	0.130	2.460
600.000	0.127	256.960	139.203	599.992	-1.867	1.612	0.059	2.467
700.000	0.366	56.558	134.114	699.991	-1.716	1.770	0.146	2.466
800.000	0.525	59.756	118.296	799.988	-1.310	2.433	0.048	2.763
900.000	0.508	50.690	104.124	899.984	-0.798	3.171	0.013	3.270
1000.000	0.534	52.153	93.409	999.980	-0.231	3.882	0.009	3.889
1100.000	0.506	51.945	85.934	1099.976	0.327	4.598	0.008	4.610
1200.000	0.649	49.302	79.788	1199.971	0.968	5.375	0.044	5.462
1300.000	0.525	37.665	74.387	1299.966	1.700	6.084	0.051	6.318
1400.000	0.439	32.831	70.055	1399.962	2.385	6.572	0.029	6.991
1500.000	0.522	13.801	65.432	1499.959	3.149	6.888	0.054	7.574
1600.000	0.469	28.356	61.212	1599.955	3.952	7.192	0.041	8.206
1700.000	0.365	15.531	58.275	1699.952	4.619	7.471	0.021	8.784
1800.000	0.383	11.281	55.423	1799.950	5.253	7.622	0.010	9.257
1900.000	0.273	236.422	53.957	1899.950	5.449	7.489	0.182	9.262
2000.000	0.263	344.044	52.536	1999.949	5.538	7.227	0.130	9.105
2100.000	0.331	318.515	49.405	2099.948	5.975	6.973	0.044	9.183
2200.000	0.315	102.821	48.987	2199.947	6.131	7.049	0.184	9.342
2300.000	0.360	102.435	51.789	2299.945	6.002	7.624	0.007	9.703

2400.000	0.677	113.973	56.090	2399.941	5.694	8.471	0.100	10.207
2500.000	0.682	102.918	60.977	2499.934	5.321	9.591	0.039	10.968
2600.000	0.702	118.258	65.424	2599.927	4.898	10.710	0.056	11.777
2700.000	0.571	108.195	69.203	2699.921	4.453	11.723	0.052	12.540
2800.000	0.502	124.007	72.119	2799.916	4.052	12.560	0.049	13.197
2900.000	0.476	123.244	74.905	2899.913	3.579	13.270	0.004	13.745
3000.000	0.356	147.327	77.366	2999.910	3.090	13.786	0.063	14.128
3100.000	0.883	197.119	81.334	3099.905	2.092	13.726	0.212	13.885
3200.000	1.371	199.410	89.005	3199.885	0.227	13.102	0.147	13.104
3300.000	0.790	200.215	97.078	3299.867	-1.548	12.466	0.087	12.562
3400.000	1.120	186.021	104.636	3399.853	-3.167	12.126	0.121	12.532
3500.000	0.580	182.966	111.162	3499.841	-4.644	11.997	0.163	12.864
3600.000	0.570	184.638	115.323	3599.836	-5.645	11.930	0.006	13.199
3700.000	0.702	151.652	118.741	3699.830	-6.680	12.181	0.057	13.893
3800.000	0.656	126.778	120.320	3799.824	-7.562	12.931	0.089	14.979
3900.000	0.548	107.317	120.166	3899.818	-8.047	13.846	0.069	16.014
4000.000	0.222	125.244	119.859	3999.816	-8.301	14.460	0.103	16.674
4100.000	0.118	273.498	120.077	4099.816	-8.407	14.516	0.049	16.774
4200.000	0.092	65.898	120.012	4199.816	-8.368	14.486	0.031	16.729
4300.000	0.377	299.645	119.793	4299.815	-8.172	14.274	0.131	16.448
4400.000	0.533	307.531	119.567	4399.812	-7.726	13.619	0.050	15.658
4500.000	0.795	313.465	118.655	4499.805	-6.966	12.746	0.041	14.526
4600.000	0.987	341.540	115.351	4599.793	-5.671	11.970	0.071	13.246
4700.000	1.379	6.855	107.175	4699.772	-3.660	11.841	0.097	12.394
4800.000	1.417	14.029	95.881	4799.743	-1.265	12.284	0.027	12.349
4900.000	0.682	337.386	87.759	4899.726	0.484	12.355	0.144	12.365
5000.000	0.602	254.661	85.601	4999.722	0.894	11.620	0.128	11.654
5100.000	0.840	269.042	85.907	5099.714	0.743	10.380	0.045	10.407
5200.000	0.343	260.039	85.849	5199.708	0.679	9.353	0.076	9.377
5300.000	0.507	271.430	85.765	5299.706	0.638	8.616	0.028	8.639
5400.000	0.283	351.297	83.735	5399.704	0.893	8.136	0.080	8.185
5500.000	0.246	37.746	80.976	5499.703	1.307	8.230	0.032	8.333
5600.000	0.291	27.238	78.644	5599.702	1.703	8.478	0.010	8.647
5700.000	0.219	141.754	78.464	5699.701	1.778	8.712	0.065	8.892
5800.000	0.361	259.112	79.569	5799.700	1.569	8.521	0.075	8.664
5900.000	1.008	264.047	79.062	5899.693	1.418	7.337	0.097	7.473
6000.000	0.843	242.624	80.343	5999.680	0.988	5.809	0.057	5.892
6100.000	0.776	238.356	86.315	6099.670	0.295	4.579	0.014	4.588
6200.000	1.063	247.174	97.605	6199.657	-0.420	3.148	0.048	3.175
6300.000	0.863	242.697	124.734	6299.643	-1.126	1.623	0.032	1.975
6400.000	0.500	194.975	156.029	6399.636	-1.892	0.841	0.097	2.071
6500.000	0.669	176.049	165.132	6499.631	-2.896	0.769	0.038	2.997
6600.000	0.628	136.505	162.984	6599.625	-3.876	1.186	0.066	4.054
6700.000	0.929	139.874	156.914	6699.616	-4.894	2.086	0.046	5.320
6800.000	0.648	132.697	152.851	6799.606	-5.897	3.024	0.045	6.627
6850.000	0.520	122.460	151.114	6850.314	-6.215	3.429	0.049	7.098