

**GyroTracer Directional:**

Date: 1/30/2019  
 Operator : Adrian Bruner  
 API : 05-123-24696  
 Well Name : **Rouse USX A 5-17**  
 Field : Noble Energy Inc  
 Tool Number: 1605  
 Bottom Depth : 7050.00  
 Total Well Depth: 7269.00  
 Latitude : 40.51874 N  
 Longitude : 104.56873 W  
 Grid Offset : 0.60  
 Datum: NAD 83

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

Northing: 0.00      Easting: 0.00      GLE: 4821.00

**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: 1/30/2019 12:40

End Time: 1/30/2019 13:49

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	0.760	32.243	74.820	101.080	0.350	1.290	0.752	1.337
200.000	0.615	18.174	50.976	199.984	1.320	1.629	0.224	2.097
300.000	0.231	8.735	41.536	299.981	2.033	1.801	0.237	2.716
400.000	0.283	2.731	36.526	399.980	2.448	1.813	0.024	3.047
500.000	0.222	38.656	34.327	499.979	2.792	1.906	0.099	3.381
600.000	0.321	87.915	35.851	599.978	3.044	2.200	0.250	3.756
700.000	1.010	101.020	50.059	699.969	2.955	3.530	0.735	4.603
800.000	0.960	134.971	63.090	799.955	2.586	5.094	0.577	5.713
900.000	1.008	160.045	78.457	899.942	1.209	5.921	0.393	6.044
1000.000	0.947	166.950	93.781	999.928	-0.414	6.263	0.150	6.277
1100.000	1.021	173.508	107.547	1099.914	-2.082	6.585	0.121	6.906
1200.000	0.910	184.884	120.229	1199.899	-3.791	6.506	0.206	7.530
1300.000	0.859	191.869	130.436	1299.886	-5.375	6.307	0.219	8.287
1400.000	0.981	185.541	138.972	1399.874	-6.895	6.000	0.137	9.141
1500.000	0.805	184.644	145.359	1499.862	-8.422	5.819	0.182	10.236
1600.000	0.796	188.856	150.056	1599.852	-9.765	5.625	0.073	11.270
1700.000	0.649	188.433	153.473	1699.844	-10.999	5.490	0.145	12.293
1800.000	0.667	196.451	156.147	1799.839	-12.004	5.308	0.070	13.125
1900.000	0.578	201.186	158.610	1899.834	-12.954	5.074	0.091	13.912
2000.000	0.597	206.786	160.971	1999.829	-13.851	4.777	0.095	14.652
2100.000	0.287	208.404	162.964	2099.826	-14.609	4.476	0.187	15.279

2200.000	0.511	208.602	164.787	2199.823	-15.293	4.159	0.128	15.848
2300.000	0.453	232.932	167.039	2299.819	-15.925	3.665	0.186	16.341
2400.000	0.511	236.778	169.822	2399.816	-16.390	2.942	0.061	16.652
2500.000	0.526	261.582	172.621	2499.812	-16.751	2.169	0.210	16.891
2600.000	0.425	278.039	175.734	2599.807	-16.945	1.264	0.333	16.993
2700.000	0.498	260.663	179.080	2699.802	-16.982	0.273	0.211	16.984
2800.000	0.420	278.497	181.887	2799.798	-16.943	-0.558	0.236	16.952
2900.000	0.291	283.344	183.935	2899.796	-16.855	-1.159	0.039	16.895
3000.000	0.392	264.382	185.893	2999.794	-16.716	-1.725	0.227	16.805
3100.000	0.221	313.267	187.096	3099.793	-16.638	-2.071	0.251	16.767
3200.000	0.253	74.716	186.425	3199.792	-16.681	-1.878	0.443	16.786
3300.000	0.270	102.355	184.868	3299.790	-16.681	-1.421	0.125	16.742
3400.000	0.521	99.595	183.023	3399.788	-16.455	-0.869	0.248	16.478
3500.000	1.476	23.052	181.027	3499.771	-15.023	-0.269	1.508	15.025
3600.000	2.550	2.881	179.200	3599.702	-11.404	0.159	1.316	11.405
3700.000	3.056	25.060	167.455	3699.575	-6.579	1.464	1.185	6.740
3800.000	2.730	31.732	119.324	3799.448	-2.204	3.924	0.440	4.501
3900.000	2.128	52.649	79.641	3899.353	1.202	6.576	1.106	6.685
4000.000	1.611	56.722	71.351	3999.293	3.170	9.392	0.560	9.912
4100.000	1.372	54.397	69.335	4099.266	4.293	11.381	0.390	12.164
4200.000	0.525	342.156	64.737	4199.250	5.707	12.094	1.278	13.373
4300.000	0.734	232.978	63.698	4299.247	5.758	11.650	1.111	12.995
4400.000	0.911	236.009	65.099	4399.236	4.853	10.454	0.234	11.525
4500.000	1.056	248.194	65.906	4499.221	4.013	8.974	0.274	9.831
4600.000	1.301	262.614	63.667	4599.202	3.512	7.095	0.374	7.916
4700.000	0.911	239.225	60.873	4699.177	2.803	5.029	0.515	5.758
4800.000	1.412	196.518	73.930	4799.157	1.189	4.129	0.973	4.297
4900.000	1.555	174.053	106.524	4899.128	-1.196	4.032	0.657	4.206
5000.000	1.705	174.694	132.108	4999.089	-3.952	4.372	0.196	5.893
5100.000	1.715	162.609	145.206	5099.049	-6.748	4.689	0.343	8.217
5200.000	1.727	167.153	151.398	5199.011	-9.434	5.144	0.730	10.745
5300.000	1.867	162.786	154.136	5298.969	-12.182	5.906	0.176	13.538
5400.000	1.814	143.189	152.441	5398.916	-14.810	7.729	0.598	16.706
5500.000	1.809	165.625	153.764	5498.858	-17.957	8.850	0.734	20.019
5600.000	1.819	160.961	155.103	5598.802	-21.138	9.811	0.115	23.304
5700.000	1.353	156.754	155.519	5698.767	-23.594	10.743	0.422	25.924
5800.000	1.355	146.003	154.413	5798.739	-25.398	12.162	0.272	28.159
5900.000	1.087	139.775	152.927	5898.715	-26.861	13.729	0.259	30.166
6000.000	1.177	123.516	151.203	5998.691	-28.131	15.463	0.347	32.101
6100.000	1.110	116.369	149.540	6098.670	-29.221	17.185	0.137	33.900
6200.000	1.041	119.256	148.038	6198.653	-30.079	18.768	0.067	35.454
6300.000	1.228	106.453	146.468	6298.639	-30.653	20.314	0.275	36.773
6400.000	0.965	99.767	144.921	6398.628	-30.932	21.723	0.220	37.798
6500.000	0.942	85.953	143.205	6498.619	-30.805	23.041	0.195	38.469
6600.000	1.020	77.372	141.200	6598.606	-30.546	24.559	0.189	39.195
6700.000	1.020	65.995	139.148	6698.594	-30.059	25.993	0.169	39.739
6800.000	1.068	63.751	136.935	6798.580	-29.360	27.441	0.118	40.187
6900.000	1.169	76.773	134.515	6898.563	-28.497	28.984	0.244	40.646
7000.000	1.165	42.118	131.632	6998.540	-27.201	30.603	0.695	40.945
7050.000	1.400	37.900	129.764	7050.622	-26.143	31.418	0.282	40.873