



Company: Noble Energy

Rig: Production/Core-Tech

API # 05-123-09451

Date: 05/29/14

Surveyor: Mark Simmons

VS: 0.000

Lat : 40.287

Long: -104.721

Well: Schmidt Roy A Unit 2

Location: Weld County, Colorado

North Reference: Grid North

Convergence: Grid north is -0.5 Degrees East of

Declination: 8.44

Depth Reference: Ground Level

Elevation: 4767

Total Depth as Drilled: 4652

Lat & Long obtained by handheld GPS at wellhead

MS Gyro Survey Calculations

Depth	Inc	AzG	N/-S	E/-W	TVD	DL	VS	CD	Cbrg
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.000	0.313	147.757	-0.231	0.146	100.000	0.313	-0.231	0.273	147.757
200.000	0.178	175.063	-0.616	0.305	199.999	0.175	-0.616	0.688	153.706
300.000	0.136	204.395	-0.880	0.269	299.998	0.089	-0.880	0.920	163.004
400.000	0.182	255.592	-1.027	0.066	399.998	0.143	-1.027	1.029	176.309
500.000	0.376	274.431	-1.041	-0.414	499.997	0.212	-1.041	1.121	201.683
600.000	0.658	283.112	-0.886	-1.300	599.993	0.292	-0.886	1.573	235.723
700.000	0.705	272.983	-0.724	-2.473	699.985	0.129	-0.724	2.577	253.691
800.000	0.663	279.761	-0.594	-3.658	799.978	0.091	-0.594	3.706	260.782
900.000	0.769	271.332	-0.480	-4.899	899.971	0.149	-0.480	4.922	264.404
1000.000	0.738	269.504	-0.470	-6.213	999.962	0.039	-0.470	6.231	265.675
1100.000	0.726	266.267	-0.517	-7.490	1099.954	0.043	-0.517	7.508	266.053
1200.000	0.646	282.644	-0.435	-8.672	1199.947	0.211	-0.435	8.683	267.130
1300.000	0.758	262.157	-0.402	-9.877	1299.939	0.273	-0.402	9.885	267.672
1400.000	0.664	260.915	-0.583	-11.103	1399.932	0.095	-0.583	11.119	266.993
1500.000	0.692	268.551	-0.690	-12.279	1499.925	0.095	-0.690	12.299	266.784
1600.000	0.674	284.850	-0.554	-13.452	1599.918	0.195	-0.554	13.463	267.640
1700.000	0.474	311.727	-0.129	-14.329	1699.913	0.330	-0.129	14.329	269.486
1800.000	0.296	285.617	0.216	-14.886	1799.911	0.245	0.216	14.888	270.831
1900.000	0.343	301.774	0.443	-15.389	1899.909	0.101	0.443	15.395	271.649
2000.000	0.172	268.338	0.596	-15.793	1999.908	0.221	0.596	15.804	272.162
2100.000	0.337	223.447	0.378	-16.145	2099.907	0.247	0.378	16.149	271.343
2200.000	0.368	233.251	-0.027	-16.604	2199.905	0.068	-0.027	16.604	269.906
2300.000	0.419	227.014	-0.469	-17.130	2299.903	0.067	-0.469	17.136	268.432
2400.000	0.501	226.953	-1.017	-17.717	2399.900	0.082	-1.017	17.746	266.715
2500.000	0.463	230.814	-1.571	-18.350	2499.896	0.050	-1.571	18.417	265.107
2600.000	0.473	234.898	-2.064	-19.001	2599.893	0.035	-2.064	19.113	263.800
2700.000	0.380	239.724	-2.469	-19.626	2699.890	0.100	-2.469	19.781	262.830
2800.000	0.456	249.035	-2.779	-20.284	2799.887	0.102	-2.779	20.474	262.200
2900.000	0.436	248.038	-3.063	-21.009	2899.884	0.022	-3.063	21.231	261.704
3000.000	0.433	248.361	-3.345	-21.713	2999.881	0.004	-3.345	21.969	261.242
3100.000	0.306	247.192	-3.588	-22.310	3099.879	0.126	-3.588	22.596	260.864
3200.000	0.402	246.348	-3.832	-22.877	3199.877	0.095	-3.832	23.196	260.491
3300.000	0.263	300.593	-3.856	-23.395	3299.876	0.327	-3.856	23.711	260.641
3400.000	0.433	248.396	-3.878	-23.944	3399.874	0.342	-3.878	24.256	260.799

3500.000	0.447	253.688	-4.127	-24.670	3499.871	0.043	-4.127	25.012	260.503
3600.000	0.720	246.204	-4.490	-25.619	3599.866	0.283	-4.490	26.009	260.059
3700.000	0.619	269.673	-4.747	-26.734	3699.859	0.290	-4.747	27.152	259.932
3800.000	0.861	256.030	-4.931	-28.003	3799.851	0.297	-4.931	28.434	260.013
3900.000	0.599	291.662	-4.920	-29.218	3899.843	0.511	-4.920	29.629	260.442
4000.000	0.405	305.076	-4.524	-29.992	3999.839	0.226	-4.524	30.332	261.423
4100.000	0.453	237.159	-4.535	-30.614	4099.837	0.481	-4.535	30.948	261.573
4200.000	0.478	247.093	-4.912	-31.330	4199.834	0.084	-4.912	31.713	261.089
4300.000	0.496	210.656	-5.447	-31.935	4299.831	0.305	-5.447	32.396	260.320

True North