



Company: Noble Energy
Rig: Production/VES
API # 05-123-33519
Date: 9/24/2013
Surveyor: Jason Kinchelow

Well: Shelton G 25-22
Location: Weld County, Colorado
North Reference: GRID
Convergence: Grid north is 0.58 degrees East of

Declination: 8.47
Depth Reference: RKB = Ground Level
Elevation: 4824'
VS: 0.000
Lat : 40.284
Long: -104.607
Total Depth as Drilled: 7318'

Lat & Long obtained by handheld GPS at wellhead

HA 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
100.000	0.769	6.205	0.667	0.073	99.997	0.769	0.667	0.671	6.205
200.000	0.629	1.732	1.883	0.162	199.990	0.150	1.883	1.889	4.907
300.000	0.434	324.275	2.738	-0.043	299.985	0.388	2.738	2.739	359.107
400.000	0.517	336.838	3.460	-0.441	399.982	0.133	3.460	3.488	352.737
500.000	0.803	312.495	4.348	-1.135	499.976	0.394	4.348	4.494	345.371
600.000	0.835	320.080	5.380	-2.119	599.965	0.113	5.380	5.782	338.502
700.000	0.838	326.698	6.550	-2.988	699.955	0.097	6.550	7.199	335.479
800.000	0.789	332.988	7.774	-3.702	799.945	0.101	7.774	8.611	334.537
900.000	0.699	331.632	8.924	-4.305	899.936	0.093	8.924	9.908	334.251
1000.000	0.482	312.561	9.745	-4.904	999.931	0.290	9.745	10.909	333.288
1100.000	0.581	315.154	10.389	-5.571	1099.927	0.103	10.389	11.789	331.798
1200.000	0.469	304.479	10.981	-6.267	1199.922	0.148	10.981	12.643	330.287
1300.000	0.763	300.729	11.553	-7.177	1299.917	0.296	11.553	13.601	328.151
1400.000	0.638	289.260	12.077	-8.275	1399.909	0.187	12.077	14.640	325.582
1500.000	0.809	305.474	12.670	-9.375	1499.901	0.265	12.670	15.762	323.500
1600.000	0.602	290.018	13.260	-10.444	1599.894	0.280	13.260	16.879	321.775
1700.000	0.750	271.670	13.459	-11.592	1699.887	0.261	13.459	17.763	319.262
1800.000	0.951	272.678	13.517	-13.076	1799.876	0.201	13.517	18.806	315.950
1900.000	0.888	283.666	13.738	-14.658	1899.863	0.187	13.738	20.090	313.146
2000.000	1.400	320.175	14.860	-16.194	1999.844	0.866	14.860	21.978	312.541
2100.000	1.754	330.914	17.135	-17.720	2099.806	0.460	17.135	24.650	314.039
2200.000	1.823	328.154	19.824	-19.303	2199.757	0.110	19.824	27.669	315.763
2300.000	1.756	343.297	22.643	-20.583	2299.709	0.476	22.643	30.600	317.729
2400.000	1.595	359.189	25.502	-21.043	2399.667	0.490	25.502	33.063	320.472
2500.000	1.196	4.402	27.934	-20.982	2499.637	0.418	27.934	34.936	323.088
2600.000	0.979	3.760	29.826	-20.846	2599.619	0.217	29.826	36.389	325.049
2700.000	1.081	318.567	31.386	-21.414	2699.604	0.797	31.386	37.995	325.694
2800.000	0.963	336.499	32.863	-22.374	2799.589	0.339	32.863	39.757	325.753
2900.000	1.014	338.568	34.458	-23.032	2899.574	0.062	34.458	41.447	326.241
3000.000	0.897	341.130	36.022	-23.609	2999.560	0.124	36.022	43.070	326.760
3100.000	0.445	355.842	37.151	-23.890	3099.553	0.480	37.151	44.169	327.257
3200.000	0.153	297.962	37.601	-24.036	3199.552	0.386	37.601	44.627	327.411
3300.000	0.445	308.086	37.903	-24.460	3299.550	0.296	37.903	45.110	327.165
3400.000	0.997	268.007	38.113	-25.636	3399.542	0.716	38.113	45.932	326.074
3500.000	1.263	303.312	38.687	-27.426	3499.524	0.731	38.687	47.423	324.666

3600.000	0.730	287.190	39.481	-28.956	3599.509	0.597	39.481	48.961	323.743
3700.000	0.756	317.783	40.158	-30.008	3699.501	0.393	40.158	50.131	323.231
3800.000	0.782	317.694	41.151	-30.911	3799.492	0.026	41.151	51.467	323.088
3900.000	0.637	297.108	41.909	-31.864	3899.484	0.291	41.909	52.647	322.753
4000.000	0.894	301.530	42.570	-33.024	3999.475	0.264	42.570	53.877	322.197
4100.000	0.897	315.976	43.540	-34.232	4099.463	0.225	43.540	55.386	321.825
4200.000	1.101	319.014	44.829	-35.407	4199.448	0.211	44.829	57.125	321.697
4300.000	1.271	318.237	46.382	-36.776	4299.426	0.171	46.382	59.192	321.589
4400.000	1.535	328.058	48.345	-38.223	4399.396	0.356	48.345	61.630	321.669
4500.000	1.685	325.823	50.698	-39.757	4499.357	0.163	50.698	64.427	321.896
4600.000	1.080	332.513	52.750	-41.018	4599.327	0.625	52.750	66.821	322.131
4700.000	0.447	334.245	53.937	-41.623	4699.318	0.634	53.937	68.130	322.343
4800.000	0.162	282.250	54.318	-41.930	4799.317	0.369	54.318	68.619	322.334
4900.000	0.280	232.610	54.199	-42.263	4899.316	0.215	54.199	68.730	322.054
5000.000	0.433	211.892	53.730	-42.657	4999.314	0.197	53.730	68.604	321.553
5100.000	0.608	208.449	52.943	-43.110	5099.310	0.178	52.943	68.274	320.845
5200.000	0.671	208.903	51.964	-43.645	5199.304	0.062	51.964	67.861	319.973
5300.000	0.941	201.835	50.690	-44.233	5299.294	0.287	50.690	67.276	318.891
5400.000	0.948	216.793	49.265	-45.034	5399.280	0.246	49.265	66.747	317.569
5500.000	1.321	197.536	47.503	-45.877	5499.261	0.529	47.503	66.040	315.997
5600.000	0.726	189.835	45.779	-46.333	5599.244	0.610	45.779	65.134	314.656
5700.000	1.040	44.216	45.806	-45.808	5699.239	1.689	45.806	64.781	314.998
5800.000	1.193	58.093	47.006	-44.292	5799.221	0.310	47.006	64.586	316.703
5900.000	1.474	65.844	48.083	-42.234	5899.194	0.334	48.083	63.998	318.705
6000.000	1.780	67.765	49.197	-39.623	5999.153	0.310	49.197	63.169	321.152
6100.000	3.661	65.719	51.098	-35.275	6099.036	1.883	51.098	62.091	325.381
6200.000	4.287	60.015	54.278	-29.128	6198.795	0.740	54.278	61.600	331.780
6300.000	1.592	62.186	56.795	-24.661	6298.655	2.696	56.795	61.918	336.529
6400.000	0.693	3.882	58.047	-23.391	6398.636	1.362	58.047	62.583	338.052
6500.000	0.813	288.476	58.875	-24.023	6498.630	0.926	58.875	63.588	337.803
6600.000	0.979	279.243	59.237	-25.538	6598.618	0.220	59.237	64.508	336.678
6700.000	0.907	266.261	59.323	-27.171	6698.604	0.225	59.323	65.249	335.391
6800.000	1.134	257.707	59.061	-28.927	6798.588	0.273	59.061	65.764	333.905
6900.000	1.240	253.033	58.535	-30.928	6898.567	0.144	58.535	66.203	332.149
7000.000	1.004	248.215	57.894	-32.776	6998.548	0.254	57.894	66.528	330.484

True North