



Company: Noble Energy

Rig: Production / CoreTech

API # 05-123-17833

Date: 4/25/2014

Surveyor: CJ Hines

VS: 0.000

Lat : 40.462

Long: -104.510

Well: Sidwell 26-1G4

Location: Weld County, Colorado

North Reference: GRID

Convergence: Grid north is 0.64 East of True Noi

Declination: 8.34

Depth Reference: Ground Level

Elevation: 4632

Total Depth as Drilled: 7014

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	0.240	84.083	0.022	0.208	100.000	0.240	0.022	0.209	84.083
200.000	0.224	85.398	0.059	0.611	199.999	0.017	0.059	0.614	84.501
300.000	0.525	307.556	0.354	0.443	299.998	0.707	0.354	0.567	51.401
400.000	0.378	152.642	0.340	0.232	399.996	0.882	0.340	0.411	34.250
500.000	0.465	313.347	0.326	0.088	499.995	0.831	0.326	0.337	15.144
600.000	0.797	5.203	1.296	-0.144	599.990	0.627	1.296	1.304	353.671
700.000	0.396	21.011	2.311	0.043	699.984	0.429	2.311	2.312	1.073
800.000	0.803	3.419	3.334	0.209	799.979	0.442	3.334	3.341	3.588
900.000	1.055	24.200	4.873	0.628	899.966	0.416	4.873	4.914	7.345
1000.000	0.697	347.798	6.307	0.877	999.955	0.644	6.307	6.367	7.916
1100.000	0.551	356.591	7.380	0.720	1099.949	0.174	7.380	7.415	5.571
1200.000	0.867	35.111	8.479	1.127	1199.942	0.555	8.479	8.554	7.569
1300.000	1.135	355.249	10.086	1.480	1299.927	0.728	10.086	10.194	8.348
1400.000	1.151	357.563	12.077	1.355	1399.907	0.049	12.077	12.152	6.402
1500.000	1.056	1.340	14.001	1.334	1499.889	0.120	14.001	14.065	5.442
1600.000	1.015	347.848	15.788	1.169	1599.873	0.247	15.788	15.832	4.234
1700.000	1.149	28.037	17.539	1.454	1699.856	0.754	17.539	17.600	4.737
1800.000	0.588	0.825	18.937	1.932	1799.845	0.681	18.937	19.035	5.825
1900.000	0.780	5.021	20.128	1.999	1899.838	0.199	20.128	20.227	5.672
2000.000	0.238	346.803	21.008	2.011	1999.833	0.559	21.008	21.104	5.468
2100.000	0.680	355.640	21.802	1.919	2099.830	0.446	21.802	21.887	5.029
2200.000	0.133	338.050	22.501	1.830	2199.827	0.555	22.501	22.576	4.650
2300.000	0.630	40.382	23.027	2.143	2299.825	0.580	23.027	23.127	5.317
2400.000	0.392	19.631	23.768	2.614	2399.821	0.298	23.768	23.911	6.276
2500.000	0.359	21.796	24.381	2.845	2499.819	0.036	24.381	24.546	6.656
2600.000	0.281	17.176	24.906	3.034	2599.817	0.082	24.906	25.090	6.945
2700.000	0.434	60.036	25.330	3.435	2699.815	0.298	25.330	25.562	7.723
2800.000	0.618	92.114	25.499	4.302	2799.811	0.340	25.499	25.860	9.576
2900.000	0.358	72.859	25.571	5.139	2899.808	0.304	25.571	26.083	11.363
3000.000	0.565	53.571	25.956	5.834	2999.804	0.257	25.956	26.604	12.668
3100.000	0.418	194.241	25.896	6.142	3099.803	0.927	25.896	26.614	13.342
3200.000	0.432	255.818	25.450	5.687	3199.800	0.435	25.450	26.077	12.596
3300.000	0.527	275.708	25.403	4.864	3299.797	0.190	25.403	25.865	10.840
3400.000	0.614	292.396	25.653	3.911	3399.792	0.187	25.653	25.950	8.669
3500.000	0.872	332.846	26.535	3.068	3499.784	0.568	26.535	26.712	6.596

3600.000	0.753	312.998	27.661	2.240	3599.774	0.304	27.661	27.751	4.630
3700.000	0.784	319.838	28.631	1.318	3699.765	0.097	28.631	28.662	2.636
3800.000	0.494	352.141	29.581	0.818	3799.759	0.451	29.581	29.593	1.585
3900.000	0.869	30.484	30.663	1.144	3899.753	0.571	30.663	30.684	2.137
4000.000	1.287	60.489	31.869	2.506	3999.735	0.688	31.869	31.968	4.496
4100.000	1.957	42.436	33.682	4.635	4099.695	0.835	33.682	34.000	7.835
4200.000	2.401	27.080	36.807	6.740	4199.624	0.730	36.807	37.419	10.377
4300.000	3.086	12.650	41.299	8.283	4299.510	0.968	41.299	42.121	11.341
4400.000	3.396	29.148	46.512	10.316	4399.352	0.979	46.512	47.643	12.505
4500.000	3.677	44.074	51.403	13.989	4499.163	0.960	51.403	53.273	15.224
4600.000	3.597	55.731	55.474	18.812	4598.963	0.743	55.474	58.577	18.733
4700.000	3.309	62.624	58.567	23.968	4698.782	0.505	58.567	63.282	22.256
4800.000	2.910	66.303	60.915	28.855	4798.635	0.446	60.915	67.403	25.347
4900.000	2.240	59.194	62.936	32.858	4898.533	0.741	62.936	70.997	27.569
5000.000	1.335	49.657	64.691	35.425	4998.484	0.950	64.691	73.756	28.705
5100.000	0.843	65.427	65.751	36.982	5098.466	0.572	65.751	75.438	29.356
5200.000	0.515	46.921	66.364	37.979	5198.459	0.390	66.364	76.463	29.782
5300.000	0.769	35.697	67.216	38.699	5298.452	0.282	67.216	77.560	29.931
5400.000	0.534	52.692	68.043	39.461	5398.446	0.302	68.043	78.658	30.111
5500.000	0.479	341.660	68.723	39.700	5498.443	0.590	68.723	79.366	30.015
5600.000	0.859	334.628	69.796	39.248	5598.436	0.388	69.796	80.075	29.350
5700.000	0.966	304.860	70.955	38.235	5698.424	0.480	70.955	80.601	28.319
5800.000	1.158	301.432	71.964	36.682	5798.407	0.202	71.964	80.773	27.009
5900.000	1.363	297.352	73.037	34.763	5898.382	0.224	73.037	80.888	25.452
6000.000	1.659	322.482	74.732	32.824	5998.349	0.718	74.732	81.623	23.712
6100.000	1.880	345.847	77.471	31.542	6098.302	0.749	77.471	83.646	22.153
6200.000	1.249	350.832	80.138	30.967	6198.264	0.646	80.138	85.913	21.128
6300.000	0.858	26.492	81.884	31.127	6298.248	0.745	81.884	87.600	20.814
6400.000	0.860	31.145	83.196	31.850	6398.237	0.070	83.196	89.084	20.948
6500.000	0.915	28.865	84.538	32.623	6498.225	0.065	84.538	90.614	21.102

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