



Company: Noble Energy
Rig: Production / CoreTech
API # 05-123-26387
Date: 4/2/2014
Surveyor: CJ Hines
VS: 0.000
Lat : 40.463
Long: -104.515

Well: DCD Farms A #26-2
Location: Weld County, Colorado
North Reference: GRID
Convergence: Grid north is 0.64 East of True Noi
Declination: 8.35
Depth Reference: Ground Level
Elevation: 4633
Total Depth as Drilled: 6998

Lat & Long obtained by handheld GPS at wellhead

MY GYRO SURVEY CALCULATION

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	0.484	0.636	0.423	0.005	99.999	0.484	0.423	0.423	0.636
200.000	0.442	64.503	1.012	0.358	199.996	0.491	1.012	1.073	19.475
300.000	0.358	67.502	1.297	0.995	299.994	0.087	1.297	1.635	37.480
400.000	0.351	47.225	1.625	1.508	399.992	0.125	1.625	2.217	42.867
500.000	0.348	53.013	2.016	1.976	499.990	0.035	2.016	2.822	44.427
600.000	0.107	71.920	2.227	2.307	599.989	0.250	2.227	3.207	46.005
700.000	0.559	222.315	1.896	2.067	699.988	0.654	1.896	2.805	47.476
800.000	0.917	216.412	0.891	1.264	799.979	0.365	0.891	1.547	54.808
900.000	1.631	184.344	-1.172	0.681	899.955	0.983	-1.172	1.355	149.825
1000.000	1.635	189.257	-3.999	0.344	999.915	0.140	-3.999	4.014	175.085
1100.000	1.671	189.104	-6.847	-0.116	1099.873	0.036	-6.847	6.848	180.973
1200.000	1.504	183.436	-9.597	-0.426	1199.835	0.229	-9.597	9.606	182.539
1300.000	1.304	182.784	-12.043	-0.560	1299.804	0.201	-12.043	12.056	182.660
1400.000	1.141	186.692	-14.169	-0.731	1399.782	0.183	-14.169	14.188	182.953
1500.000	0.758	200.472	-15.777	-1.078	1499.768	0.444	-15.777	15.814	183.909
1600.000	1.057	205.448	-17.229	-1.706	1599.755	0.309	-17.229	17.313	185.653
1700.000	1.056	198.172	-18.938	-2.389	1699.738	0.134	-18.938	19.088	187.191
1800.000	1.220	181.743	-20.878	-2.709	1799.719	0.363	-20.878	21.053	187.394
1900.000	1.656	173.863	-23.378	-2.587	1899.687	0.477	-23.378	23.521	186.315
2000.000	1.763	163.418	-26.289	-1.994	1999.643	0.329	-26.289	26.365	184.337
2100.000	1.542	140.920	-28.808	-0.706	2099.602	0.680	-28.808	28.817	181.405
2200.000	1.703	148.487	-31.120	0.918	2199.562	0.268	-31.120	31.133	178.310
2300.000	1.477	150.437	-33.507	2.331	2299.524	0.233	-33.507	33.588	176.021
2400.000	1.705	149.964	-35.916	3.711	2399.485	0.228	-35.916	36.107	174.100
2500.000	1.631	167.450	-38.593	4.765	2499.443	0.512	-38.593	38.886	172.961
2600.000	1.472	172.859	-41.257	5.234	2599.407	0.216	-41.257	41.588	172.770
2700.000	1.356	153.785	-43.594	5.917	2699.377	0.482	-43.594	43.993	172.271
2800.000	1.515	152.612	-45.829	7.048	2799.345	0.162	-45.829	46.368	171.258
2900.000	1.149	153.269	-47.899	8.107	2899.318	0.367	-47.899	48.580	170.394
3000.000	1.246	153.325	-49.766	9.046	2999.296	0.097	-49.766	50.581	169.698
3100.000	1.121	175.067	-51.712	9.618	3099.275	0.463	-51.712	52.599	169.464
3200.000	0.671	232.365	-53.044	9.238	3199.265	0.945	-53.044	53.842	170.120
3300.000	0.784	294.903	-53.113	8.154	3299.258	0.761	-53.113	53.736	171.272
3400.000	1.160	290.871	-52.465	6.588	3399.244	0.382	-52.465	52.877	172.843
3500.000	1.549	281.504	-51.834	4.318	3499.216	0.447	-51.834	52.014	175.238

3600.000	1.694	285.580	-51.168	1.570	3599.176	0.185	-51.168	51.192	178.243
3700.000	1.862	290.445	-50.204	-1.376	3699.127	0.226	-50.204	50.223	181.570
3800.000	2.085	310.210	-48.462	-4.287	3799.069	0.712	-48.462	48.651	185.055
3900.000	1.956	296.961	-46.514	-7.197	3899.008	0.483	-46.514	47.067	188.795
4000.000	1.287	308.668	-45.039	-9.595	3998.967	0.743	-45.039	46.049	192.026
4100.000	0.675	304.188	-44.006	-10.959	4098.952	0.616	-44.006	45.350	193.984
4200.000	0.651	179.589	-44.243	-11.442	4198.949	1.174	-44.243	45.699	194.500
4300.000	0.856	120.608	-45.191	-10.795	4298.942	0.763	-45.191	46.463	193.435
4400.000	0.895	118.778	-45.947	-9.468	4398.930	0.049	-45.947	46.913	191.643
4500.000	1.101	23.531	-45.443	-8.399	4498.920	1.481	-45.443	46.213	190.472
4600.000	2.366	8.306	-42.519	-7.718	4598.873	1.336	-42.519	43.214	190.288
4700.000	2.906	354.703	-37.952	-7.653	4698.768	0.823	-37.952	38.716	191.401
4800.000	2.108	359.205	-33.589	-7.913	4798.671	0.821	-33.589	34.509	193.256
4900.000	1.507	17.328	-30.495	-7.547	4898.622	0.823	-30.495	31.415	193.900
5000.000	1.550	24.944	-28.014	-6.585	4998.586	0.208	-28.014	28.777	193.228
5100.000	1.135	60.642	-26.301	-5.151	5098.560	0.913	-26.301	26.801	191.081
5200.000	0.553	105.794	-25.947	-3.823	5198.550	0.842	-25.947	26.227	188.381
5300.000	0.698	113.183	-26.318	-2.798	5298.544	0.166	-26.318	26.467	186.068
5400.000	1.084	124.798	-27.098	-1.461	5398.532	0.424	-27.098	27.138	183.086
5500.000	1.183	126.675	-28.255	0.144	5498.512	0.106	-28.255	28.255	179.708
5600.000	1.031	138.481	-29.545	1.568	5598.494	0.274	-29.545	29.586	176.961
5700.000	0.792	137.501	-30.727	2.631	5698.481	0.239	-30.727	30.840	175.106
5800.000	0.732	117.077	-31.527	3.666	5798.472	0.276	-31.527	31.740	173.367
5900.000	0.255	120.445	-31.931	4.427	5898.468	0.477	-31.931	32.236	172.107
6000.000	0.479	102.282	-32.133	5.027	5998.466	0.250	-32.133	32.523	171.108
6100.000	0.150	108.958	-32.264	5.560	6098.465	0.331	-32.264	32.740	170.222
6200.000	0.366	66.723	-32.180	5.978	6198.464	0.274	-32.180	32.731	169.477
6300.000	0.307	46.636	-31.870	6.466	6298.462	0.131	-31.870	32.519	168.532
6400.000	0.572	41.858	-31.314	6.994	6398.459	0.267	-31.314	32.086	167.410
6500.000	0.518	83.188	-30.889	7.776	6498.455	0.388	-30.889	31.852	165.869
6600.000	0.510	68.030	-30.669	8.638	6598.451	0.136	-30.669	31.862	164.270
6700.000	0.438	63.343	-30.331	9.392	6698.447	0.082	-30.331	31.752	162.795

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