



Company: Noble Energy
Rig: Production/ V.E.S
API # 05-123-24965
Date: 5/22/2013
Surveyor: Jay Hinman
VS: 0.000
Lat : 40.09705
Long: -104.73723

Well: Badding USX W35-08
Location: Weld County, Colorado
North Reference: GRID
Convergence: Grid North is .49 Degree
Declination: 8.57
Depth Reference: Ground Level
Elevation: 5095'
Total Depth as Drilled: 8143'

Lat & Long obtained by handheld GPS at wellhead

HA Gyro Survey Calculations

Depth	Inc	AzG	N/-S	E/-W	TVD	DL	VS	CD
0.000	0.000	0.000	0.000	0.000	0.000	****	0.000	0.000
100.000	0.680	72.565	0.178	0.566	99.998	0.680	0.178	0.593
200.000	0.721	102.193	0.223	1.747	199.991	0.360	0.223	1.761
300.000	0.551	41.311	0.451	2.679	299.985	0.661	0.451	2.717
400.000	0.161	87.937	0.817	3.137	399.983	0.456	0.817	3.241
500.000	0.485	327.195	1.178	3.047	499.982	0.584	1.178	3.267
600.000	0.188	331.735	1.679	2.740	599.980	0.298	1.679	3.214
700.000	0.325	280.145	1.874	2.383	699.979	0.255	1.874	3.031
800.000	0.537	300.477	2.162	1.699	799.977	0.258	2.162	2.750
900.000	0.211	352.731	2.583	1.271	899.975	0.441	2.583	2.879
1000.000	0.133	337.971	2.874	1.204	999.974	0.089	2.874	3.116
1100.000	0.571	354.232	3.477	1.111	1099.972	0.444	3.477	3.650
1200.000	0.260	0.906	4.200	1.064	1199.969	0.314	4.200	4.333
1300.000	0.597	344.700	4.929	0.930	1299.966	0.354	4.929	5.016
1400.000	0.030	5.957	5.457	0.796	1399.964	0.569	5.457	5.515
1500.000	0.229	337.492	5.667	0.722	1499.964	0.203	5.667	5.713
1600.000	0.256	47.328	6.003	0.810	1599.963	0.278	6.003	6.057
1700.000	0.096	67.270	6.187	1.051	1699.963	0.170	6.187	6.275
1800.000	0.193	237.804	6.129	0.986	1799.963	0.288	6.129	6.208
1900.000	0.405	306.182	6.248	0.558	1899.962	0.379	6.248	6.273
2000.000	0.345	269.561	6.455	-0.029	1999.960	0.243	6.455	6.455
2100.000	0.383	270.964	6.458	-0.664	2099.958	0.039	6.458	6.492
2200.000	0.406	233.630	6.254	-1.284	2199.955	0.254	6.254	6.384
2300.000	0.359	241.842	5.896	-1.845	2299.953	0.073	5.896	6.178
2400.000	0.344	263.551	5.714	-2.419	2399.951	0.133	5.714	6.205
2500.000	0.775	244.112	5.386	-3.325	2499.946	0.465	5.386	6.329
2600.000	1.014	218.311	4.396	-4.482	2599.935	0.462	4.396	6.278
2700.000	1.260	254.954	3.416	-6.092	2699.916	0.752	3.416	6.985
2800.000	1.089	237.688	2.623	-7.958	2799.895	0.391	2.623	8.379
2900.000	0.663	213.839	1.634	-9.084	2899.884	0.552	1.634	9.229
3000.000	1.332	217.003	0.225	-10.105	2999.868	0.671	0.225	10.108
3100.000	1.423	212.772	-1.747	-11.477	3099.839	0.137	-1.747	11.609
3200.000	1.597	222.814	-3.814	-13.097	3199.805	0.316	-3.814	13.641
3300.000	1.519	252.371	-5.238	-15.307	3299.769	0.799	-5.238	16.179
3400.000	1.986	263.226	-5.844	-18.291	3399.722	0.571	-5.844	19.202

3500.000	2.692	274.447	-5.866	-22.353	3499.639	0.838	-5.866	23.110
3600.000	2.999	276.526	-5.387	-27.294	3599.516	0.324	-5.387	27.820
3700.000	2.369	260.735	-5.422	-31.933	3699.407	0.966	-5.422	32.390
3800.000	1.448	250.996	-6.167	-35.168	3799.350	0.973	-6.167	35.704
3900.000	0.996	229.797	-7.139	-37.026	3899.328	0.633	-7.139	37.708
4000.000	0.966	209.423	-8.434	-38.104	3999.314	0.348	-8.434	39.026
4100.000	0.614	208.786	-9.637	-38.775	4099.304	0.352	-9.637	39.955
4200.000	0.463	206.585	-10.468	-39.214	4199.299	0.152	-10.468	40.587
4300.000	0.571	247.721	-11.018	-39.856	4299.296	0.377	-11.018	41.351
4400.000	0.647	286.946	-11.042	-40.857	4399.290	0.415	-11.042	42.323
4500.000	0.551	298.252	-10.650	-41.821	4499.285	0.152	-10.650	43.155
4600.000	0.860	346.909	-9.692	-42.414	4599.278	0.646	-9.692	43.507
4700.000	1.347	343.988	-7.832	-42.908	4699.259	0.491	-7.832	43.617
4800.000	1.822	331.103	-5.310	-44.000	4799.221	0.591	-5.310	44.320
4900.000	2.328	335.446	-2.071	-45.613	4899.155	0.529	-2.071	45.660
5000.000	2.166	332.067	1.446	-47.342	4999.078	0.209	1.446	47.364
5100.000	2.153	350.413	4.968	-48.540	5099.009	0.689	4.968	48.794
5200.000	3.071	346.776	9.428	-49.466	5198.904	0.933	9.428	50.356
5300.000	3.024	338.749	14.495	-51.035	5298.763	0.429	14.495	53.053
5400.000	2.594	328.627	18.885	-53.169	5398.643	0.655	18.885	56.424
5500.000	2.033	341.355	22.498	-54.914	5498.562	0.758	22.498	59.344
5600.000	0.938	351.444	24.988	-55.603	5598.527	1.121	24.988	60.960
5700.000	0.691	12.825	26.385	-55.591	5698.517	0.387	26.385	61.535
5800.000	0.419	349.378	27.333	-55.524	5798.512	0.349	27.333	61.887
5900.000	0.509	357.530	28.136	-55.611	5898.509	0.111	28.136	62.323
6000.000	0.509	91.758	28.566	-55.186	5998.506	0.746	28.566	62.141
6100.000	1.037	87.226	28.596	-53.839	6098.497	0.531	28.596	60.962
6200.000	0.316	133.971	28.448	-52.736	6198.490	0.852	28.448	59.920
6300.000	0.785	232.811	27.843	-53.084	6298.486	0.890	27.843	59.943
6400.000	1.713	236.388	26.602	-54.874	6398.461	0.931	26.602	60.982
6500.000	1.639	237.545	25.007	-57.326	6498.419	0.081	25.007	62.543
6600.000	2.167	249.497	23.577	-60.303	6598.364	0.657	23.577	64.749
6700.000	2.225	239.901	21.942	-63.753	6698.290	0.372	21.942	67.423
6800.000	2.488	236.811	19.780	-67.249	6798.206	0.292	19.780	70.098
6900.000	2.660	215.506	16.703	-70.413	6898.107	0.966	16.703	72.367
7000.000	1.474	202.914	13.629	-72.262	6998.041	1.263	13.629	73.536
7100.000	0.262	193.427	12.222	-72.816	7098.027	1.217	12.222	73.834
7200.000	1.587	209.208	10.791	-73.545	7198.012	1.337	10.791	74.332
7300.000	1.460	236.418	8.878	-75.282	7297.978	0.727	8.878	75.803
7400.000	1.512	271.233	8.202	-77.662	7397.947	0.890	8.202	78.094
7500.000	1.071	280.325	8.398	-79.900	7497.921	0.485	8.398	80.340

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