



Company: Noble Energy

Rig: Production/CoreTech

API # 05-123-14943

Date: 1/10/2014

Surveyor: Randy Holcomb

VS: 0.000

Lat : 40.285

Long: -104.723

Well: Schmidt 25-7F

Location: Weld County, Colorado

North Reference: GRID

Convergence: Grid north is 0.5 East of True North

Declination: 8.49

Depth Reference: Ground Level

Elevation: 4766 Feet

Total Depth as Drilled: 7333 Feet

**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
100.000	0.507	135.531	-0.316	0.310	99.999	0.507	-0.316	0.442	135.531
200.000	0.527	146.584	-1.015	0.873	199.995	0.102	-1.015	1.339	139.306
300.000	0.501	144.786	-1.756	1.378	299.991	0.031	-1.756	2.232	141.874
400.000	1.207	189.033	-3.153	1.465	399.980	0.917	-3.153	3.477	155.080
500.000	2.500	210.271	-6.077	0.200	499.926	1.443	-6.077	6.080	178.115
600.000	2.938	226.535	-9.724	-2.759	599.815	0.883	-9.724	10.107	195.843
700.000	2.945	230.649	-13.115	-6.606	699.683	0.211	-13.115	14.685	206.734
800.000	2.805	227.781	-16.388	-10.405	799.558	0.201	-16.388	19.412	212.411
900.000	2.726	228.067	-19.622	-13.986	899.441	0.080	-19.622	24.096	215.480
1000.000	2.457	233.849	-22.475	-17.486	999.339	0.374	-22.475	28.476	217.883
1100.000	2.220	237.874	-24.770	-20.857	1099.256	0.289	-24.770	32.381	220.098
1200.000	2.073	243.841	-26.597	-24.120	1199.186	0.267	-26.597	35.905	222.204
1300.000	1.765	255.061	-27.791	-27.231	1299.130	0.485	-27.791	38.909	224.417
1400.000	1.654	256.598	-28.523	-30.123	1399.085	0.120	-28.523	41.484	226.563
1500.000	1.538	271.274	-28.827	-32.868	1499.047	0.424	-28.827	43.719	228.747
1600.000	1.532	281.846	-28.523	-35.518	1599.011	0.283	-28.523	45.553	231.233
1700.000	1.582	282.681	-27.946	-38.173	1698.974	0.054	-27.946	47.309	233.793
1800.000	1.632	294.761	-27.046	-40.812	1798.935	0.342	-27.046	48.961	236.468
1900.000	1.419	300.902	-25.814	-43.168	1898.900	0.268	-25.814	50.297	239.121
2000.000	1.279	307.520	-24.498	-45.115	1998.872	0.209	-24.498	51.338	241.497
2100.000	1.309	302.503	-23.205	-46.964	2098.847	0.117	-23.205	52.384	243.706
2200.000	1.183	292.098	-22.203	-48.884	2198.823	0.258	-22.203	53.690	245.573
2300.000	1.220	291.311	-21.427	-50.833	2298.801	0.040	-21.427	55.164	247.143
2400.000	0.978	298.908	-20.628	-52.572	2398.783	0.282	-20.628	56.474	248.576
2500.000	0.577	302.260	-19.947	-53.744	2498.773	0.404	-19.947	57.326	249.638
2600.000	0.370	304.486	-19.495	-54.436	2598.770	0.207	-19.495	57.822	250.296
2700.000	0.269	337.884	-19.095	-54.791	2698.768	0.208	-19.095	58.023	250.786
2800.000	0.341	294.666	-18.753	-55.150	2798.767	0.234	-18.753	58.251	251.220
2900.000	0.310	304.618	-18.475	-55.643	2898.765	0.064	-18.475	58.630	251.632
3000.000	0.333	312.174	-18.126	-56.081	2998.764	0.048	-18.126	58.938	252.088
3100.000	0.575	348.754	-17.440	-56.394	3098.761	0.366	-17.440	59.029	252.816
3200.000	0.625	356.531	-16.403	-56.525	3198.755	0.095	-16.403	58.857	253.817
3300.000	0.563	8.858	-15.374	-56.482	3298.750	0.141	-15.374	58.537	254.774
3400.000	0.398	358.092	-14.541	-56.418	3398.746	0.188	-14.541	58.262	255.547
3500.000	0.457	2.698	-13.796	-56.411	3498.744	0.068	-13.796	58.073	256.257
3600.000	0.248	320.355	-13.231	-56.530	3598.742	0.321	-13.231	58.058	256.826
3700.000	0.604	262.049	-13.138	-57.190	3698.739	0.518	-13.138	58.679	257.062

3800.000	0.998	257.144	-13.405	-58.561	3798.729	0.400	-13.405	60.075	257.107
3900.000	1.271	259.524	-13.800	-60.500	3898.710	0.277	-13.800	62.054	257.151
4000.000	1.497	261.071	-14.204	-62.881	3998.680	0.229	-14.204	64.466	257.271
4100.000	1.891	266.947	-14.495	-65.819	4098.637	0.430	-14.495	67.397	257.580
4200.000	2.656	270.345	-14.569	-69.784	4198.557	0.777	-14.569	71.289	258.208
4300.000	2.800	273.227	-14.418	-74.540	4298.444	0.199	-14.418	75.922	259.053
4400.000	2.820	274.522	-14.086	-79.431	4398.324	0.067	-14.086	80.670	259.944
4500.000	2.604	280.107	-13.494	-84.119	4498.212	0.341	-13.494	85.194	260.887
4600.000	2.154	301.800	-12.105	-87.953	4598.127	0.998	-12.105	88.782	262.164
4700.000	1.681	328.539	-9.864	-90.315	4698.073	0.999	-9.864	90.852	263.767
4800.000	0.769	348.181	-7.956	-91.218	4798.050	0.991	-7.956	91.564	265.015
4900.000	0.664	48.022	-6.912	-90.924	4898.043	0.721	-6.912	91.187	265.653
5000.000	0.715	45.777	-6.089	-90.046	4998.036	0.057	-6.089	90.252	266.132
5100.000	0.576	49.486	-5.327	-89.217	5098.029	0.144	-5.327	89.376	266.583
5200.000	0.601	344.410	-4.495	-88.975	5198.025	0.633	-4.495	89.089	267.108
5300.000	0.898	352.064	-3.214	-89.224	5298.016	0.313	-3.214	89.282	267.937
5400.000	1.098	4.752	-1.483	-89.253	5398.001	0.296	-1.483	89.266	269.048
5500.000	1.435	15.905	0.676	-88.831	5497.977	0.416	0.676	88.833	270.436
5600.000	1.171	23.459	2.817	-88.081	5597.951	0.315	2.817	88.126	271.832
5700.000	0.657	35.880	4.219	-87.338	5697.938	0.548	4.219	87.440	272.766
5800.000	0.654	130.154	4.315	-86.566	5797.934	0.961	4.315	86.673	272.854
5900.000	0.742	134.807	3.491	-85.670	5897.926	0.104	3.491	85.741	272.334
6000.000	0.985	112.912	2.701	-84.419	5997.915	0.406	2.701	84.462	271.832
6100.000	1.271	131.635	1.629	-82.799	6097.896	0.463	1.629	82.815	271.127
6200.000	1.168	141.289	0.097	-81.332	6197.874	0.229	0.097	81.332	270.068
6300.000	1.231	144.153	-1.570	-80.066	6297.852	0.087	-1.570	80.081	268.877
6400.000	1.285	151.737	-3.428	-78.906	6397.828	0.175	-3.428	78.980	267.512
6500.000	1.414	153.389	-5.518	-77.822	6497.800	0.135	-5.518	78.017	265.944
6600.000	1.416	160.846	-7.789	-76.864	6597.770	0.184	-7.789	77.257	264.214
6700.000	1.301	171.192	-10.078	-76.284	6697.742	0.271	-10.078	76.947	262.474
6800.000	1.144	188.871	-12.186	-76.265	6797.719	0.406	-12.186	77.232	260.922
6900.000	0.432	234.176	-13.393	-76.724	6897.710	0.895	-13.393	77.884	260.098
7000.000	0.452	28.611	-13.267	-76.841	6997.709	0.862	-13.267	77.978	260.204
7100.000	0.881	64.119	-12.586	-75.960	7097.702	0.576	-12.586	76.996	260.592
7150.000	1.366	60.802	-12.127	-75.094	7147.692	0.980	-12.127	76.067	260.826