



Company: Noble Energy

Rig: Production / CoreTech

API # 05-123-29943

Date: 2/18/2014

Surveyor: CJ Hines

VS: 0.000

Lat : 40.287

Long: -104.710

Well: Schmidt G #30-19

Location: Weld County, Colorado

North Reference: GRID

Convergence: Grid north is 0.51 East of True Noi

Declination: 8.46

Depth Reference: Ground Level

Elevation: 4789

Total Depth as Drilled: 7409

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	0.161	216.783	-0.113	-0.084	100.000	0.161	-0.113	0.141	216.783
200.000	0.278	102.225	-0.277	0.068	199.999	0.374	-0.277	0.285	166.139
300.000	0.227	144.661	-0.490	0.420	299.999	0.189	-0.490	0.645	139.401
400.000	0.206	151.173	-0.809	0.621	399.998	0.032	-0.809	1.020	142.486
500.000	0.308	192.340	-1.230	0.650	499.997	0.205	-1.230	1.391	152.126
600.000	0.383	209.736	-1.783	0.427	599.995	0.128	-1.783	1.833	166.519
700.000	0.540	223.769	-2.413	-0.064	699.992	0.193	-2.413	2.414	181.524
800.000	0.726	222.689	-3.219	-0.820	799.986	0.187	-3.219	3.322	194.291
900.000	0.693	223.678	-4.122	-1.667	899.978	0.036	-4.122	4.447	202.022
1000.000	0.813	223.549	-5.074	-2.574	999.969	0.120	-5.074	5.690	206.898
1100.000	0.929	221.014	-6.200	-3.595	1099.958	0.122	-6.200	7.167	210.106
1200.000	1.075	225.894	-7.465	-4.801	1199.942	0.169	-7.465	8.876	212.746
1300.000	0.751	226.713	-8.568	-5.952	1299.930	0.324	-8.568	10.432	214.787
1400.000	1.152	237.136	-9.563	-7.274	1399.916	0.435	-9.563	12.015	217.258
1500.000	0.926	240.351	-10.508	-8.821	1499.899	0.234	-10.508	13.720	220.010
1600.000	0.858	259.148	-11.049	-10.258	1599.887	0.299	-11.049	15.077	222.874
1700.000	0.562	231.802	-11.493	-11.379	1699.880	0.442	-11.493	16.173	224.713
1800.000	1.083	205.326	-12.651	-12.169	1799.869	0.631	-12.651	17.553	223.887
1900.000	1.842	198.565	-15.028	-13.084	1899.836	0.777	-15.028	19.926	221.045
2000.000	2.271	197.072	-18.445	-14.178	1999.772	0.432	-18.445	23.264	217.548
2100.000	2.678	196.470	-22.579	-15.421	2099.678	0.408	-22.579	27.343	214.333
2200.000	2.516	203.507	-26.831	-16.959	2199.576	0.357	-26.831	31.742	212.295
2300.000	2.687	214.428	-30.777	-19.159	2299.473	0.523	-30.777	36.253	211.903
2400.000	2.136	208.147	-34.353	-21.364	2399.385	0.610	-34.353	40.455	211.877
2500.000	2.021	199.998	-37.654	-22.846	2499.319	0.317	-37.654	44.043	211.247
2600.000	1.811	209.838	-40.682	-24.235	2599.263	0.390	-40.682	47.354	210.783
2700.000	1.726	212.079	-43.329	-25.821	2699.216	0.109	-43.329	50.439	210.792
2800.000	1.665	210.805	-45.853	-27.365	2799.172	0.072	-45.853	53.398	210.829
2900.000	1.657	207.136	-48.388	-28.769	2899.130	0.107	-48.388	56.294	210.734
3000.000	1.136	203.788	-50.581	-29.828	2999.100	0.527	-50.581	58.721	210.528
3100.000	1.046	201.519	-52.337	-30.563	3099.082	0.100	-52.337	60.608	210.283
3200.000	1.033	206.599	-53.992	-31.301	3199.065	0.093	-53.992	62.409	210.102
3300.000	0.648	218.659	-55.240	-32.058	3299.054	0.422	-55.240	63.868	210.128
3400.000	1.037	283.981	-55.463	-33.290	3399.045	0.967	-55.463	64.686	210.973
3500.000	0.959	273.378	-55.195	-35.003	3499.030	0.200	-55.195	65.358	212.382

3600.000	1.157	270.057	-55.144	-36.848	3599.013	0.207	-55.144	66.322	213.751
3700.000	1.038	262.357	-55.264	-38.754	3698.995	0.189	-55.264	67.498	215.041
3800.000	1.258	276.994	-55.250	-40.741	3798.975	0.365	-55.250	68.647	216.405
3900.000	1.335	255.402	-55.410	-42.958	3898.950	0.491	-55.410	70.112	217.786
4000.000	1.193	253.139	-56.006	-45.082	3998.926	0.151	-56.006	71.896	218.832
4100.000	0.437	274.800	-56.276	-46.457	4098.915	0.803	-56.276	72.974	219.541
4200.000	0.789	350.607	-55.565	-46.949	4198.910	0.802	-55.565	72.744	220.196
4300.000	1.137	318.244	-54.146	-47.722	4298.897	0.632	-54.146	72.175	221.392
4400.000	1.813	308.360	-52.424	-49.623	4398.863	0.720	-52.424	72.185	223.428
4500.000	1.859	316.007	-50.276	-51.990	4498.812	0.249	-50.276	72.323	225.960
4600.000	1.532	347.238	-47.804	-53.412	4598.770	0.965	-47.804	71.680	228.171
4700.000	0.961	23.264	-45.730	-53.376	4698.748	0.943	-45.730	70.287	229.412
4800.000	0.676	74.655	-44.804	-52.476	4798.739	0.755	-44.804	69.001	229.509
4900.000	0.225	166.337	-44.838	-51.860	4898.736	0.719	-44.838	68.556	229.153
5000.000	0.327	215.616	-45.261	-51.980	4998.735	0.248	-45.261	68.924	228.953
5100.000	0.485	252.298	-45.622	-52.549	5098.733	0.296	-45.622	69.590	229.036
5200.000	0.294	323.181	-45.545	-53.106	5198.731	0.478	-45.545	69.962	229.383
5300.000	0.416	269.594	-45.342	-53.623	5298.729	0.338	-45.342	70.224	229.784
5400.000	0.366	358.446	-45.025	-53.995	5398.727	0.549	-45.025	70.304	230.177
5500.000	0.596	16.144	-44.205	-53.859	5498.724	0.271	-44.205	69.677	230.622
5600.000	0.842	82.110	-43.604	-52.987	5598.717	0.809	-43.604	68.622	230.548
5700.000	0.923	27.343	-42.788	-51.889	5698.707	0.815	-42.788	67.255	230.491
5800.000	1.768	6.902	-40.541	-51.334	5798.679	0.959	-40.541	65.412	231.700
5900.000	2.588	355.492	-36.759	-51.326	5898.607	0.924	-36.759	63.131	234.391
6000.000	3.188	358.072	-31.729	-51.597	5998.479	0.613	-31.729	60.572	238.411
6100.000	3.994	356.634	-25.474	-51.895	6098.282	0.811	-25.474	57.810	243.855
6200.000	4.090	8.389	-18.469	-51.579	6198.035	0.833	-18.469	54.786	250.299
6300.000	2.876	0.522	-12.433	-51.036	6297.849	1.302	-12.433	52.528	256.309
6400.000	1.472	29.301	-8.803	-50.384	6397.777	1.737	-8.803	51.148	260.089
6500.000	1.492	103.330	-7.983	-48.489	6497.752	1.784	-7.983	49.142	260.651
6600.000	1.601	132.445	-9.226	-46.191	6597.717	0.785	-9.226	47.103	258.705
6700.000	1.857	158.470	-11.676	-44.565	6697.673	0.817	-11.676	46.070	255.318
6800.000	1.993	158.673	-14.803	-43.339	6797.616	0.136	-14.803	45.797	251.142
6900.000	1.880	155.122	-17.911	-42.016	6897.559	0.164	-17.911	45.674	246.912
7000.000	1.569	150.655	-20.593	-40.655	6997.514	0.339	-20.593	45.573	243.137
7100.000	1.295	155.467	-22.814	-39.515	7097.483	0.299	-22.814	45.628	240.000

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