



Company: Encana Oil & Gas
Rig: Production/CoreTech
Latitude: 40.111
Longitude: -104.992
API # 05-123-21342
Date: 11/24/14

Well: Miller 22-27
Location: Weld County, Colorado
North Reference: True North
Depth Reference: RKB = Ground Level Elevation = 4
Surveyor: Brian Budd
VS: 0.000

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	0.575	94.929	-0.043	0.500	99.998	0.575	-0.043	0.502	94.929
200.000	0.147	55.380	-0.013	1.106	199.996	0.471	-0.013	1.107	90.684
300.000	0.366	292.221	0.180	0.917	299.996	0.463	0.180	0.935	78.865
400.000	0.491	272.880	0.323	0.194	399.993	0.189	0.323	0.377	31.029
500.000	0.580	258.133	0.240	-0.729	499.988	0.163	0.240	0.767	288.230
600.000	0.620	264.099	0.080	-1.762	599.983	0.074	0.080	1.764	272.612
700.000	0.743	261.250	-0.074	-2.941	699.976	0.128	-0.074	2.942	268.561
800.000	0.710	255.591	-0.327	-4.183	799.968	0.079	-0.327	4.195	265.533
900.000	0.837	258.641	-0.625	-5.499	899.959	0.133	-0.625	5.534	263.517
1000.000	0.922	249.857	-1.046	-6.970	999.947	0.159	-1.046	7.048	261.468
1100.000	1.157	222.788	-2.064	-8.411	1099.931	0.537	-2.064	8.661	256.216
1200.000	1.511	190.041	-4.102	-9.327	1199.905	0.825	-4.102	10.189	246.258
1300.000	1.571	224.886	-6.372	-10.524	1299.871	0.924	-6.372	12.303	238.807
1400.000	1.765	258.283	-7.656	-13.000	1399.831	0.976	-7.656	15.086	239.505
1500.000	1.622	266.651	-8.051	-15.920	1499.788	0.285	-8.051	17.840	243.173
1600.000	1.713	266.281	-8.231	-18.825	1599.745	0.092	-8.231	20.545	246.383
1700.000	1.877	265.267	-8.463	-21.948	1699.696	0.166	-8.463	23.523	248.914
1800.000	1.698	265.653	-8.710	-25.058	1799.647	0.179	-8.710	26.528	250.832
1900.000	2.315	249.767	-9.521	-28.430	1899.586	0.825	-9.521	29.982	251.485
2000.000	2.387	250.520	-10.914	-32.289	1999.502	0.079	-10.914	34.084	251.324
2100.000	2.422	250.626	-12.310	-36.245	2099.414	0.035	-12.310	38.279	251.242
2200.000	2.337	258.464	-13.418	-40.236	2199.328	0.336	-13.418	42.414	251.557
2300.000	2.331	267.832	-13.903	-44.266	2299.246	0.381	-13.903	46.397	252.564
2400.000	2.132	272.880	-13.886	-48.156	2399.170	0.280	-13.886	50.118	253.915
2500.000	1.793	268.730	-13.827	-51.577	2499.111	0.367	-13.827	53.399	254.992
2600.000	1.911	266.041	-13.977	-54.805	2599.059	0.146	-13.977	56.559	255.693
2700.000	1.765	262.987	-14.280	-57.997	2699.007	0.176	-14.280	59.729	256.167
2800.000	1.529	269.530	-14.479	-60.860	2798.966	0.301	-14.479	62.558	256.617
2900.000	1.253	262.894	-14.626	-63.279	2898.937	0.320	-14.626	64.947	256.986
3000.000	1.027	255.470	-14.985	-65.230	2998.917	0.269	-14.985	66.930	257.062
3100.000	1.056	252.765	-15.483	-66.978	3098.900	0.057	-15.483	68.744	256.984
3200.000	0.633	262.804	-15.826	-68.406	3198.889	0.446	-15.826	70.213	256.974
3300.000	0.768	247.411	-16.152	-69.573	3298.882	0.230	-16.152	71.423	256.930
3400.000	0.607	226.294	-16.775	-70.574	3398.875	0.298	-16.775	72.541	256.629
3500.000	0.194	252.792	-17.191	-71.119	3498.872	0.442	-17.191	73.167	256.411
3600.000	0.190	205.607	-17.391	-71.352	3598.872	0.154	-17.391	73.441	256.302
3700.000	0.543	234.499	-17.815	-71.809	3698.870	0.388	-17.815	73.986	256.067

3800.000	0.707	242.081	-18.379	-72.740	3798.864	0.183	-18.379	75.026	255.820
3900.000	0.362	273.341	-18.649	-73.600	3898.859	0.440	-18.649	75.926	255.781
4000.000	0.485	298.890	-18.426	-74.286	3998.857	0.222	-18.426	76.537	256.069
4100.000	0.915	299.711	-17.826	-75.350	4098.849	0.430	-17.826	77.430	256.690
4200.000	0.751	295.470	-17.149	-76.635	4198.838	0.175	-17.149	78.530	257.387
4300.000	0.695	310.944	-16.469	-77.685	4298.830	0.202	-16.469	79.412	258.030
4400.000	0.422	310.949	-15.831	-78.421	4398.826	0.273	-15.831	80.003	258.587
4500.000	0.495	316.615	-15.275	-78.996	4498.822	0.086	-15.275	80.459	259.056
4600.000	0.541	303.321	-14.701	-79.688	4598.818	0.128	-14.701	81.033	259.547
4700.000	0.518	323.132	-14.080	-80.354	4698.814	0.184	-14.080	81.578	260.061
4800.000	0.695	352.086	-13.118	-80.709	4798.809	0.348	-13.118	81.768	260.769
4900.000	0.842	6.038	-11.786	-80.715	4898.800	0.237	-11.786	81.571	261.692
5000.000	1.008	359.946	-10.176	-80.639	4998.787	0.192	-10.176	81.278	262.807
5100.000	1.140	359.762	-8.302	-80.644	5098.769	0.133	-8.302	81.070	264.122
5200.000	1.153	8.327	-6.313	-80.502	5198.749	0.172	-6.313	80.749	265.516
5300.000	1.533	13.474	-4.016	-80.045	5298.722	0.399	-4.016	80.145	267.127
5400.000	1.509	4.107	-1.403	-79.639	5398.687	0.250	-1.403	79.651	268.991
5500.000	1.502	8.179	1.208	-79.358	5498.652	0.107	1.208	79.367	270.872
5600.000	1.741	11.872	3.992	-78.859	5598.612	0.261	3.992	78.960	272.898
5700.000	1.702	0.571	6.964	-78.532	5698.567	0.341	6.964	78.840	275.068
5800.000	1.599	4.253	9.841	-78.413	5798.526	0.148	9.841	79.028	277.153
5900.000	1.881	10.344	12.847	-78.015	5898.479	0.337	12.847	79.066	279.351
6000.000	1.659	7.321	15.897	-77.536	5998.432	0.241	15.897	79.149	281.587
6100.000	1.738	15.215	18.797	-76.954	6098.388	0.247	18.797	79.216	283.726
6200.000	1.492	13.690	21.525	-76.247	6198.348	0.250	21.525	79.227	285.765
6300.000	1.275	13.936	23.870	-75.671	6298.319	0.217	23.870	79.347	287.507
6400.000	1.244	14.125	26.003	-75.138	6398.295	0.032	26.003	79.510	289.089
6500.000	1.097	16.471	27.974	-74.602	6498.274	0.155	27.974	79.674	290.555
6600.000	0.912	7.273	29.681	-74.230	6598.258	0.245	29.681	79.944	291.794
6700.000	0.845	3.445	31.206	-74.085	6698.247	0.089	31.206	80.389	292.842
6800.000	0.745	5.090	32.590	-73.983	6798.237	0.103	32.590	80.843	293.774
6900.000	0.695	359.423	33.844	-73.931	6898.229	0.087	33.844	81.310	294.597
7000.000	0.613	347.802	34.973	-74.050	6998.223	0.156	34.973	81.894	295.281
7100.000	0.567	336.653	35.950	-74.359	7098.217	0.123	35.950	82.593	295.802
7200.000	0.600	308.557	36.730	-74.965	7198.212	0.285	36.730	83.480	296.103
7300.000	0.606	302.287	37.339	-75.822	7298.207	0.066	37.339	84.517	296.218
7400.000	0.783	323.994	38.175	-76.671	7398.200	0.314	38.175	85.649	296.469
7500.000	0.404	9.495	39.075	-77.014	7498.195	0.577	39.075	86.360	296.902
7600.000	0.168	87.341	39.430	-76.810	7598.194	0.404	39.430	86.339	297.174
7700.000	0.039	245.120	39.423	-76.694	7698.194	0.205	39.423	86.233	297.204
7800.000	0.331	328.951	39.656	-76.875	7798.193	0.329	39.656	86.500	297.287
7900.000	0.273	13.662	40.135	-76.967	7898.192	0.236	40.135	86.803	297.540
7950.000	0.693	12.386	40.546	-76.874	7948.190	0.840	40.546	86.912	297.809

1976 feet