



Company: Encana Oil and Gas
Rig: Production / Coretech
Latitude: 40.126
Longitude: -105.039
API # 05-123-21880
Date: 9-25-14

Well: Regnier Farms 42-19
Location: Weld County, Colorado
North Reference: True North
Depth Reference: Ground Level
Surveyor: Kevin McDowell
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	0.000
100.000	1.168	241.253	-0.490	-0.893	99.993	1.168	-0.490	1.019	241.253
200.000	1.331	251.000	-1.358	-2.885	199.969	0.267	-1.358	3.188	244.788
300.000	1.228	244.243	-2.202	-4.948	299.945	0.182	-2.202	5.416	246.010
400.000	1.061	242.442	-3.096	-6.734	399.925	0.171	-3.096	7.411	245.309
500.000	0.960	237.959	-3.969	-8.264	499.909	0.128	-3.969	9.168	244.350
600.000	0.694	282.688	-4.280	-9.565	599.899	0.676	-4.280	10.479	245.893
700.000	0.695	264.394	-4.206	-10.760	699.892	0.221	-4.206	11.553	248.647
800.000	1.283	265.442	-4.355	-12.479	799.877	0.588	-4.355	13.217	250.764
900.000	1.263	264.756	-4.544	-14.692	899.852	0.025	-4.544	15.379	252.814
1000.000	1.253	263.474	-4.769	-16.877	999.828	0.030	-4.769	17.538	254.220
1100.000	1.624	262.802	-5.071	-19.369	1099.796	0.371	-5.071	20.022	255.328
1200.000	1.685	268.616	-5.284	-22.244	1199.755	0.179	-5.284	22.863	256.637
1300.000	1.627	268.016	-5.369	-25.132	1299.713	0.061	-5.369	25.699	257.942
1400.000	1.693	270.569	-5.403	-28.028	1399.671	0.099	-5.403	28.544	259.088
1500.000	1.837	267.950	-5.446	-31.106	1499.624	0.165	-5.446	31.579	260.070
1600.000	1.749	257.924	-5.823	-34.200	1599.575	0.325	-5.823	34.692	260.338
1700.000	1.672	279.604	-5.898	-37.131	1699.531	0.648	-5.898	37.597	260.974
1800.000	1.437	295.889	-5.108	-39.698	1799.495	0.498	-5.108	40.025	262.669
1900.000	1.763	323.857	-3.318	-41.733	1899.457	0.835	-3.318	41.865	265.454
2000.000	1.349	337.369	-0.990	-43.093	1999.421	0.550	-0.990	43.104	268.684
2100.000	0.999	351.841	0.959	-43.670	2099.400	0.456	0.959	43.680	271.258
2200.000	1.273	339.641	2.863	-44.180	2199.380	0.364	2.863	44.272	273.708
2300.000	0.988	347.741	4.747	-44.749	2299.361	0.326	4.747	45.000	276.055
2400.000	0.818	334.763	6.234	-45.236	2399.348	0.265	6.234	45.664	277.847
2500.000	0.677	294.724	7.127	-46.077	2499.340	0.529	7.127	46.625	278.793
2600.000	1.351	275.248	7.482	-47.788	2599.324	0.748	7.482	48.370	278.898
2700.000	1.389	275.695	7.710	-50.169	2699.296	0.040	7.710	50.758	278.737
2800.000	1.461	256.791	7.539	-52.616	2799.265	0.473	7.539	53.153	278.154
2900.000	1.648	257.583	6.939	-55.261	2899.229	0.188	6.939	55.695	277.157
3000.000	1.831	256.998	6.270	-58.222	2999.183	0.184	6.270	58.558	276.147
3100.000	1.713	263.941	5.753	-61.264	3099.135	0.245	5.753	61.533	275.365
3200.000	1.387	261.043	5.407	-63.945	3199.098	0.335	5.407	64.173	274.833
3300.000	1.306	268.959	5.198	-66.280	3299.071	0.203	5.198	66.483	274.484
3400.000	1.138	258.564	4.980	-68.392	3399.048	0.277	4.980	68.573	274.165
3500.000	1.180	264.059	4.677	-70.390	3499.028	0.119	4.677	70.545	273.801
3600.000	1.410	261.635	4.391	-72.631	3599.002	0.236	4.391	72.764	273.460
3700.000	1.709	250.562	3.716	-75.254	3698.965	0.424	3.716	75.346	272.827
3800.000	2.172	236.138	2.164	-78.235	3798.908	0.670	2.164	78.264	271.584

3900.000	2.484	255.242	0.556	-81.904	3898.827	0.831	0.556	81.906	270.389
4000.000	2.609	274.366	0.177	-86.268	3998.730	0.855	0.177	86.269	270.117
4100.000	2.539	253.029	-0.297	-90.657	4098.631	0.955	-0.297	90.657	269.813
4200.000	2.548	253.626	-1.570	-94.908	4198.533	0.028	-1.570	94.921	269.052
4300.000	2.525	239.159	-3.326	-98.932	4298.436	0.639	-3.326	98.988	268.075
4400.000	2.448	219.213	-6.110	-102.174	4398.343	0.864	-6.110	102.356	266.578
4500.000	2.341	249.017	-8.496	-105.431	4498.260	1.236	-8.496	105.773	265.393
4600.000	2.297	262.969	-9.473	-109.327	4598.179	0.565	-9.473	109.736	265.048
4700.000	2.269	273.266	-9.605	-113.292	4698.100	0.411	-9.605	113.699	265.154
4800.000	2.100	271.405	-9.448	-117.100	4798.027	0.184	-9.448	117.480	265.387
4900.000	2.020	247.787	-10.069	-120.563	4897.964	0.846	-10.069	120.982	265.226
5000.000	1.726	261.740	-10.951	-123.684	4997.911	0.540	-10.951	124.168	264.940
5100.000	1.291	257.576	-11.410	-126.275	5097.877	0.448	-11.410	126.789	264.837
5200.000	1.467	270.982	-11.631	-128.655	5197.848	0.366	-11.631	129.180	264.834
5300.000	1.304	277.983	-11.451	-131.062	5297.819	0.235	-11.451	131.561	265.007
5400.000	1.202	231.467	-11.946	-133.009	5397.797	0.994	-11.946	133.544	264.868
5500.000	1.012	272.540	-12.561	-134.711	5497.780	0.797	-12.561	135.296	264.673
5600.000	0.874	274.409	-12.463	-136.353	5597.766	0.141	-12.463	136.922	264.778
5700.000	0.890	271.774	-12.380	-137.890	5697.755	0.044	-12.380	138.444	264.869
5800.000	0.546	347.320	-11.892	-138.771	5797.748	0.921	-11.892	139.279	265.102
5900.000	1.020	25.834	-10.626	-138.487	5897.739	0.684	-10.626	138.894	265.612
6000.000	0.848	24.515	-9.151	-137.792	5997.726	0.174	-9.151	138.096	266.201
6100.000	0.667	19.351	-7.928	-137.292	6097.717	0.193	-7.928	137.521	266.695
6200.000	0.482	340.009	-6.984	-137.243	6197.713	0.424	-6.984	137.420	267.087
6300.000	0.372	307.029	-6.394	-137.646	6297.710	0.264	-6.394	137.794	267.340
6400.000	0.319	277.480	-6.162	-138.181	6397.708	0.183	-6.162	138.318	267.447
6500.000	0.278	255.500	-6.187	-138.692	6497.707	0.121	-6.187	138.829	267.446
6600.000	0.357	342.849	-5.950	-139.019	6597.706	0.442	-5.950	139.146	267.549
6700.000	0.279	329.756	-5.442	-139.233	6697.704	0.107	-5.442	139.339	267.762
6800.000	0.234	292.750	-5.153	-139.544	6797.703	0.168	-5.153	139.639	267.885
6900.000	0.157	258.043	-5.102	-139.866	6897.703	0.138	-5.102	139.959	267.911
7000.000	0.054	97.996	-5.137	-139.954	6997.703	0.208	-5.137	140.048	267.898
7100.000	0.169	348.668	-4.998	-139.936	7097.703	0.194	-4.998	140.025	267.954
7200.000	0.591	318.406	-4.468	-140.307	7197.700	0.453	-4.468	140.378	268.176
7300.000	0.576	325.695	-3.667	-140.933	7297.695	0.076	-3.667	140.980	268.509
7400.000	0.208	265.650	-3.266	-141.397	7397.693	0.505	-3.266	141.435	268.677
7500.000	0.365	243.752	-3.421	-141.865	7497.692	0.189	-3.421	141.906	268.619
7600.000	0.392	221.640	-3.817	-142.378	7597.689	0.147	-3.817	142.429	268.464
7700.000	0.497	260.334	-4.146	-143.033	7697.687	0.311	-4.146	143.093	268.340
7800.000	0.435	183.578	-4.597	-143.484	7797.684	0.581	-4.597	143.558	268.165
7850.000	0.474	250.086	-4.857	-143.691	7847.683	0.999	-4.857	143.773	268.064