



Company: Encana Oil & Gas
Rig: Production/ Core Tech
Latitude: 40.175
Longitude: -104.851
API # 05-123-20398
Date: 5/20/14

Well: Kiyota 44-35
Location: Weld County, Colorado
North Reference: True North
Depth Reference: Ground Level
Surveyor: Norman Cowan
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	0.330	0.267	0.288	0.001	99.999	0.330	0.288	0.288	0.267
200.000	0.287	10.950	0.823	0.050	199.998	0.072	0.823	0.824	3.498
300.000	0.407	345.652	1.413	0.010	299.996	0.192	1.413	1.413	0.401
400.000	1.016	6.320	2.638	0.020	399.988	0.651	2.638	2.638	0.424
500.000	1.074	27.927	4.347	0.556	499.972	0.396	4.347	4.382	7.289
600.000	1.171	60.747	5.674	1.886	599.954	0.641	5.674	5.979	18.388
700.000	1.574	96.248	6.024	4.143	699.927	0.921	6.024	7.311	34.518
800.000	1.573	107.394	5.464	6.818	799.889	0.306	5.464	8.737	51.290
900.000	1.293	103.638	4.788	9.224	899.858	0.295	4.788	10.392	62.569
1000.000	1.355	107.444	4.167	11.448	999.831	0.107	4.167	12.183	69.999
1100.000	1.213	98.957	3.648	13.622	1099.806	0.237	3.648	14.102	75.008
1200.000	0.906	105.946	3.266	15.428	1199.789	0.333	3.266	15.770	78.048
1300.000	0.853	105.303	2.852	16.906	1299.777	0.053	2.852	17.145	80.424
1400.000	0.877	105.465	2.452	18.362	1399.766	0.024	2.452	18.525	82.395
1500.000	0.078	170.610	2.180	19.110	1499.762	0.847	2.180	19.234	83.492
1600.000	0.363	283.971	2.189	18.814	1599.761	0.400	2.189	18.941	83.363
1700.000	0.396	316.839	2.518	18.271	1699.759	0.217	2.518	18.443	82.153
1800.000	0.634	339.804	3.289	17.843	1799.755	0.310	3.289	18.144	79.555
1900.000	0.753	355.182	4.464	17.597	1899.748	0.220	4.464	18.154	75.766
2000.000	0.958	18.180	5.913	17.802	1999.737	0.396	5.913	18.759	71.625
2100.000	1.030	25.234	7.521	18.447	2099.722	0.142	7.521	19.921	67.818
2200.000	1.303	25.015	9.365	19.311	2199.701	0.273	9.365	21.462	64.128
2300.000	1.030	45.846	11.022	20.436	2299.680	0.500	11.022	23.219	61.661
2400.000	0.697	36.346	12.138	21.442	2399.669	0.361	12.138	24.639	60.486
2500.000	0.564	52.234	12.930	22.192	2499.663	0.219	12.930	25.684	59.773
2600.000	0.573	61.530	13.470	23.021	2599.658	0.093	13.470	26.672	59.668
2700.000	0.486	75.747	13.813	23.872	2699.654	0.157	13.813	27.580	59.946
2800.000	0.486	74.665	14.029	24.692	2799.650	0.009	14.029	28.399	60.396
2900.000	0.517	163.608	13.708	25.228	2899.648	0.703	13.708	28.712	61.482
3000.000	1.470	179.014	11.992	25.378	2999.632	0.981	11.992	28.069	64.707
3100.000	1.252	199.379	9.679	25.037	3099.604	0.527	9.679	26.843	68.865
3200.000	1.021	209.606	7.873	24.235	3199.584	0.307	7.873	25.481	72.002
3300.000	1.044	212.511	6.331	23.305	3299.568	0.057	6.331	24.149	74.802
3400.000	0.518	250.635	5.412	22.389	3399.559	0.713	5.412	23.034	76.409
3500.000	0.516	285.449	5.383	21.528	3499.555	0.309	5.383	22.191	75.962
3600.000	0.678	287.899	5.684	20.531	3599.550	0.163	5.684	21.303	74.524
3700.000	0.752	285.654	6.043	19.336	3699.542	0.080	6.043	20.258	72.644
3800.000	1.052	269.278	6.209	17.786	3799.530	0.393	6.209	18.838	70.757

3900.000	1.243	259.794	6.005	15.800	3899.510	0.269	6.005	16.903	69.190
4000.000	1.428	262.452	5.649	13.498	3999.482	0.195	5.649	14.632	67.289
4100.000	1.598	269.862	5.482	10.869	4099.448	0.259	5.482	12.173	63.233
4200.000	1.983	280.511	5.794	7.774	4199.399	0.507	5.794	9.696	53.300
4300.000	1.975	282.374	6.479	4.390	4299.339	0.065	6.479	7.826	34.120
4400.000	1.939	294.454	7.549	1.167	4399.281	0.413	7.549	7.638	8.788
4500.000	1.996	304.154	9.227	-1.814	4499.223	0.338	9.227	9.404	348.876
4600.000	1.567	316.483	11.196	-4.197	4599.174	0.573	11.196	11.957	339.451
4700.000	0.969	315.023	12.786	-5.736	4699.150	0.598	12.786	14.014	335.837
4800.000	0.865	295.747	13.712	-7.014	4799.137	0.324	13.712	15.402	332.910
4900.000	0.610	291.068	14.231	-8.190	4899.129	0.262	14.231	16.419	330.080
5000.000	0.735	259.896	14.310	-9.318	4999.122	0.381	14.310	17.076	326.930
5100.000	0.662	243.862	13.943	-10.468	5099.115	0.208	13.943	17.435	323.102
5200.000	0.788	223.729	13.191	-11.462	5199.107	0.282	13.191	17.475	319.013
5300.000	0.752	226.308	12.241	-12.411	5299.098	0.050	12.241	17.433	314.605
5400.000	0.629	227.681	11.418	-13.292	5399.090	0.124	11.418	17.523	310.664
5500.000	0.487	240.050	10.836	-14.066	5499.086	0.186	10.836	17.756	307.610
5600.000	0.289	251.672	10.545	-14.674	5599.083	0.212	10.545	18.070	305.702
5700.000	0.244	1.466	10.679	-14.907	5699.083	0.437	10.679	18.337	305.615
5800.000	0.753	52.996	11.287	-14.377	5799.079	0.631	11.287	18.278	308.136
5900.000	0.721	40.654	12.161	-13.442	5899.071	0.162	12.161	18.126	312.135
6000.000	0.364	10.828	12.950	-12.972	5999.066	0.444	12.950	18.330	314.952
6100.000	0.362	354.841	13.577	-12.941	6099.064	0.101	13.577	18.756	316.374
6200.000	0.394	9.257	14.231	-12.914	6199.062	0.100	14.231	19.216	317.778
6300.000	0.401	8.164	14.917	-12.808	6299.060	0.010	14.917	19.661	319.349
6400.000	0.175	340.493	15.407	-12.810	6399.059	0.260	15.407	20.037	320.260
6500.000	0.353	321.994	15.794	-13.050	6499.057	0.195	15.794	20.488	320.433
6600.000	0.384	338.966	16.349	-13.360	6599.055	0.113	16.349	21.113	320.745
6700.000	0.391	304.566	16.855	-13.761	6699.053	0.229	16.855	21.758	320.771
6800.000	0.419	254.334	16.949	-14.394	6799.051	0.345	16.949	22.236	319.662
6900.000	0.574	262.148	16.782	-15.242	6899.047	0.169	16.782	22.671	317.753
7000.000	0.664	260.637	16.619	-16.311	6999.041	0.091	16.619	23.286	315.537
7100.000	0.582	240.820	16.277	-17.326	7099.036	0.229	16.277	23.772	313.213
7200.000	0.480	272.684	16.049	-18.187	7199.032	0.307	16.049	24.256	311.427
7300.000	0.443	288.238	16.190	-18.973	7299.028	0.130	16.190	24.941	310.475
7400.000	0.188	264.632	16.295	-19.503	7399.027	0.280	16.295	25.415	309.880
7500.000	0.198	232.677	16.175	-19.804	7499.026	0.107	16.175	25.570	309.241
7600.000	0.324	254.281	15.994	-20.213	7599.025	0.157	15.994	25.776	308.353
7650.000	0.293	228.354	15.871	-20.445	7649.025	0.283	15.871	25.882	307.821