

## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S32-T2N-R68W (File/Hwy 52)  
**Well:** Hwy 52 4I-32H-O268  
**Wellbore:** Hz  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Hwy 52 4I-32H-O268  
**TVD Reference:** WELL @ 5003.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5003.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** DJ Wattenberg

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Colorado Northern Zone

**System Datum:** Mean Sea Level

**Site** S32-T2N-R68W (File/Hwy 52)

<b>Site Position:</b>	<b>Northing:</b>	1,275,973.93 ft	<b>Latitude:</b>	40.089950
<b>From:</b> Lat/Long	<b>Easting:</b>	3,133,277.97 ft	<b>Longitude:</b>	-105.023660
<b>Position Uncertainty:</b> 0.0 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.31 °

**Well** Hwy 52 4I-32H-O268

<b>Well Position</b>	+N/-S	0.0 ft	<b>Northing:</b>	1,275,749.69 ft	<b>Latitude:</b>	40.089340
	+E/-W	0.0 ft	<b>Easting:</b>	3,132,929.09 ft	<b>Longitude:</b>	-105.024911
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	4,988.0 ft

**Wellbore** Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/1/2013	8.70	66.69	52,723

**Design** Plan #1

**Audit Notes:**

**Version:** Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

**Plan Sections**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
742.4	5.42	225.03	741.6	-18.1	-18.1	1.00	1.00	0.00	225.03	
7,131.6	5.42	225.03	7,102.1	-444.9	-445.4	0.00	0.00	0.00	0.00	
8,069.9	90.00	0.00	7,712.0	126.8	-486.4	10.00	9.01	14.38	134.84	
12,219.9	90.00	0.00	7,712.0	4,276.8	-486.4	0.00	0.00	0.00	0.00	Hwy 52 4I-32H-O268

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
300.0	1.00	225.03	300.0	-0.6	-0.6	-0.6	1.00	1.00	
328.0	1.28	225.03	328.0	-1.0	-1.0	-1.0	1.00	1.00	Fox Hills - BASE
400.0	2.00	225.03	400.0	-2.5	-2.5	-2.5	1.00	1.00	
500.0	3.00	225.03	499.9	-5.5	-5.6	-5.5	1.00	1.00	
600.0	4.00	225.03	599.7	-9.9	-9.9	-9.9	1.00	1.00	
700.0	5.00	225.03	699.4	-15.4	-15.4	-15.4	1.00	1.00	
742.4	5.42	225.03	741.6	-18.1	-18.1	-18.1	1.00	1.00	EOB; Inc=5.42°
800.0	5.42	225.03	798.9	-22.0	-22.0	-22.0	0.00	0.00	
900.0	5.42	225.03	898.5	-28.7	-28.7	-28.7	0.00	0.00	
1,000.0	5.42	225.03	998.0	-35.3	-35.4	-35.3	0.00	0.00	
1,100.0	5.42	225.03	1,097.6	-42.0	-42.1	-42.0	0.00	0.00	
1,200.0	5.42	225.03	1,197.1	-48.7	-48.8	-48.7	0.00	0.00	
1,300.0	5.42	225.03	1,296.7	-55.4	-55.4	-55.4	0.00	0.00	
1,400.0	5.42	225.03	1,396.2	-62.1	-62.1	-62.1	0.00	0.00	
1,500.0	5.42	225.03	1,495.8	-68.7	-68.8	-68.7	0.00	0.00	
1,600.0	5.42	225.03	1,595.4	-75.4	-75.5	-75.4	0.00	0.00	
1,700.0	5.42	225.03	1,694.9	-82.1	-82.2	-82.1	0.00	0.00	
1,800.0	5.42	225.03	1,794.5	-88.8	-88.9	-88.8	0.00	0.00	
1,900.0	5.42	225.03	1,894.0	-95.5	-95.6	-95.5	0.00	0.00	
2,000.0	5.42	225.03	1,993.6	-102.1	-102.3	-102.1	0.00	0.00	
2,100.0	5.42	225.03	2,093.1	-108.8	-108.9	-108.8	0.00	0.00	
2,200.0	5.42	225.03	2,192.7	-115.5	-115.6	-115.5	0.00	0.00	
2,300.0	5.42	225.03	2,292.2	-122.2	-122.3	-122.2	0.00	0.00	
2,400.0	5.42	225.03	2,391.8	-128.8	-129.0	-128.8	0.00	0.00	
2,500.0	5.42	225.03	2,491.3	-135.5	-135.7	-135.5	0.00	0.00	
2,600.0	5.42	225.03	2,590.9	-142.2	-142.4	-142.2	0.00	0.00	
2,700.0	5.42	225.03	2,690.4	-148.9	-149.1	-148.9	0.00	0.00	
2,800.0	5.42	225.03	2,790.0	-155.6	-155.8	-155.6	0.00	0.00	
2,900.0	5.42	225.03	2,889.5	-162.2	-162.4	-162.2	0.00	0.00	
3,000.0	5.42	225.03	2,989.1	-168.9	-169.1	-168.9	0.00	0.00	
3,100.0	5.42	225.03	3,088.6	-175.6	-175.8	-175.6	0.00	0.00	
3,200.0	5.42	225.03	3,188.2	-182.3	-182.5	-182.3	0.00	0.00	
3,300.0	5.42	225.03	3,287.7	-189.0	-189.2	-189.0	0.00	0.00	
3,400.0	5.42	225.03	3,387.3	-195.6	-195.9	-195.6	0.00	0.00	
3,500.0	5.42	225.03	3,486.8	-202.3	-202.6	-202.3	0.00	0.00	
3,600.0	5.42	225.03	3,586.4	-209.0	-209.3	-209.0	0.00	0.00	
3,700.0	5.42	225.03	3,685.9	-215.7	-215.9	-215.7	0.00	0.00	
3,800.0	5.42	225.03	3,785.5	-222.4	-222.6	-222.4	0.00	0.00	
3,900.0	5.42	225.03	3,885.1	-229.0	-229.3	-229.0	0.00	0.00	
4,000.0	5.42	225.03	3,984.6	-235.7	-236.0	-235.7	0.00	0.00	
4,100.0	5.42	225.03	4,084.2	-242.4	-242.7	-242.4	0.00	0.00	
4,200.0	5.42	225.03	4,183.7	-249.1	-249.4	-249.1	0.00	0.00	
4,300.0	5.42	225.03	4,283.3	-255.8	-256.1	-255.8	0.00	0.00	
4,399.2	5.42	225.03	4,382.0	-262.4	-262.7	-262.4	0.00	0.00	Sussex
4,400.0	5.42	225.03	4,382.8	-262.4	-262.8	-262.4	0.00	0.00	
4,500.0	5.42	225.03	4,482.4	-269.1	-269.4	-269.1	0.00	0.00	
4,600.0	5.42	225.03	4,581.9	-275.8	-276.1	-275.8	0.00	0.00	
4,666.4	5.42	225.03	4,648.0	-280.2	-280.6	-280.2	0.00	0.00	Sussex Marker
4,700.0	5.42	225.03	4,681.5	-282.5	-282.8	-282.5	0.00	0.00	

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	5.42	225.03	4,781.0	-289.2	-289.5	-289.2	0.00	0.00	
4,900.0	5.42	225.03	4,880.6	-295.8	-296.2	-295.8	0.00	0.00	
4,959.7	5.42	225.03	4,940.0	-299.8	-300.2	-299.8	0.00	0.00	Shannon
5,000.0	5.42	225.03	4,980.1	-302.5	-302.9	-302.5	0.00	0.00	
5,100.0	5.42	225.03	5,079.7	-309.2	-309.6	-309.2	0.00	0.00	
5,200.0	5.42	225.03	5,179.2	-315.9	-316.3	-315.9	0.00	0.00	
5,300.0	5.42	225.03	5,278.8	-322.6	-322.9	-322.6	0.00	0.00	
5,400.0	5.42	225.03	5,378.3	-329.2	-329.6	-329.2	0.00	0.00	
5,500.0	5.42	225.03	5,477.9	-335.9	-336.3	-335.9	0.00	0.00	
5,600.0	5.42	225.03	5,577.4	-342.6	-343.0	-342.6	0.00	0.00	
5,700.0	5.42	225.03	5,677.0	-349.3	-349.7	-349.3	0.00	0.00	
5,800.0	5.42	225.03	5,776.5	-356.0	-356.4	-356.0	0.00	0.00	
5,900.0	5.42	225.03	5,876.1	-362.6	-363.1	-362.6	0.00	0.00	
6,000.0	5.42	225.03	5,975.7	-369.3	-369.8	-369.3	0.00	0.00	
6,100.0	5.42	225.03	6,075.2	-376.0	-376.4	-376.0	0.00	0.00	
6,200.0	5.42	225.03	6,174.8	-382.7	-383.1	-382.7	0.00	0.00	
6,300.0	5.42	225.03	6,274.3	-389.3	-389.8	-389.3	0.00	0.00	
6,400.0	5.42	225.03	6,373.9	-396.0	-396.5	-396.0	0.00	0.00	
6,500.0	5.42	225.03	6,473.4	-402.7	-403.2	-402.7	0.00	0.00	
6,526.7	5.42	225.03	6,500.0	-404.5	-405.0	-404.5	0.00	0.00	Teepee Buttes (*if present)
6,600.0	5.42	225.03	6,573.0	-409.4	-409.9	-409.4	0.00	0.00	
6,700.0	5.42	225.03	6,672.5	-416.1	-416.6	-416.1	0.00	0.00	
6,800.0	5.42	225.03	6,772.1	-422.7	-423.3	-422.7	0.00	0.00	
6,900.0	5.42	225.03	6,871.6	-429.4	-429.9	-429.4	0.00	0.00	
7,000.0	5.42	225.03	6,971.2	-436.1	-436.6	-436.1	0.00	0.00	
7,100.0	5.42	225.03	7,070.7	-442.8	-443.3	-442.8	0.00	0.00	
7,131.6	5.42	225.03	7,102.1	-444.9	-445.4	-444.9	0.00	0.00	Start build/turn @ 7131' MD
7,200.0	4.88	308.15	7,170.4	-445.4	-450.0	-445.4	10.00	-0.79	
7,295.8	13.16	343.30	7,265.0	-432.4	-456.4	-432.4	10.00	8.64	Sharon Springs
7,300.0	13.56	343.83	7,269.1	-431.5	-456.6	-431.5	10.00	9.57	
7,383.9	21.73	350.30	7,349.0	-406.6	-462.0	-406.6	10.00	9.74	Niobrara
7,400.0	23.32	351.03	7,363.8	-400.6	-463.0	-400.6	10.00	9.85	
7,461.6	29.40	353.15	7,419.0	-373.5	-466.7	-373.5	10.00	9.88	B Chalk
7,500.0	33.21	354.11	7,451.8	-353.7	-468.9	-353.7	10.00	9.92	
7,547.0	37.88	355.05	7,490.0	-326.5	-471.5	-326.5	10.00	9.93	B Marl
7,600.0	43.15	355.89	7,530.3	-292.2	-474.2	-292.2	10.00	9.95	
7,657.2	48.84	356.63	7,570.0	-251.1	-476.9	-251.1	10.00	9.96	C Chalk
7,700.0	53.11	357.11	7,597.0	-217.9	-478.7	-217.9	10.00	9.96	
7,701.7	53.28	357.13	7,598.0	-216.5	-478.7	-216.5	10.00	9.96	C Marl
7,800.0	63.08	358.05	7,649.8	-133.2	-482.2	-133.2	10.00	9.97	
7,877.2	70.78	358.66	7,680.0	-62.2	-484.2	-62.2	10.00	9.97	Ft. Hayes
7,900.0	73.05	358.83	7,687.1	-40.6	-484.7	-40.6	10.00	9.98	
7,962.5	79.29	359.27	7,702.0	20.1	-485.7	20.1	10.00	9.98	Codell
8,000.0	83.03	359.53	7,707.8	57.1	-486.1	57.1	10.00	9.98	
8,069.9	90.00	0.00	7,712.0	126.8	-486.4	126.8	10.00	9.98	LP @ 7712' TVD; 90°
8,100.0	90.00	0.00	7,712.0	156.9	-486.4	156.9	0.00	0.00	
8,200.0	90.00	0.00	7,712.0	256.9	-486.4	256.9	0.00	0.00	
8,300.0	90.00	0.00	7,712.0	356.9	-486.4	356.9	0.00	0.00	
8,400.0	90.00	0.00	7,712.0	456.9	-486.4	456.9	0.00	0.00	
8,500.0	90.00	0.00	7,712.0	556.9	-486.4	556.9	0.00	0.00	
8,600.0	90.00	0.00	7,712.0	656.9	-486.4	656.9	0.00	0.00	
8,700.0	90.00	0.00	7,712.0	756.9	-486.4	756.9	0.00	0.00	

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<b>Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,800.0	90.00	0.00	7,712.0	856.9	-486.4	856.9	0.00	0.00	
8,900.0	90.00	0.00	7,712.0	956.9	-486.4	956.9	0.00	0.00	
9,000.0	90.00	0.00	7,712.0	1,056.9	-486.4	1,056.9	0.00	0.00	
9,100.0	90.00	0.00	7,712.0	1,156.9	-486.4	1,156.9	0.00	0.00	
9,200.0	90.00	0.00	7,712.0	1,256.9	-486.4	1,256.9	0.00	0.00	
9,300.0	90.00	0.00	7,712.0	1,356.9	-486.4	1,356.9	0.00	0.00	
9,400.0	90.00	0.00	7,712.0	1,456.9	-486.4	1,456.9	0.00	0.00	
9,500.0	90.00	0.00	7,712.0	1,556.9	-486.4	1,556.9	0.00	0.00	
9,600.0	90.00	0.00	7,712.0	1,656.9	-486.4	1,656.9	0.00	0.00	
9,700.0	90.00	0.00	7,712.0	1,756.9	-486.4	1,756.9	0.00	0.00	
9,800.0	90.00	0.00	7,712.0	1,856.9	-486.4	1,856.9	0.00	0.00	
9,900.0	90.00	0.00	7,712.0	1,956.9	-486.4	1,956.9	0.00	0.00	
10,000.0	90.00	0.00	7,712.0	2,056.9	-486.4	2,056.9	0.00	0.00	
10,100.0	90.00	0.00	7,712.0	2,156.9	-486.4	2,156.9	0.00	0.00	
10,200.0	90.00	0.00	7,712.0	2,256.9	-486.4	2,256.9	0.00	0.00	
10,300.0	90.00	0.00	7,712.0	2,356.9	-486.4	2,356.9	0.00	0.00	
10,400.0	90.00	0.00	7,712.0	2,456.9	-486.4	2,456.9	0.00	0.00	
10,500.0	90.00	0.00	7,712.0	2,556.9	-486.4	2,556.9	0.00	0.00	
10,600.0	90.00	0.00	7,712.0	2,656.9	-486.4	2,656.9	0.00	0.00	
10,700.0	90.00	0.00	7,712.0	2,756.9	-486.4	2,756.9	0.00	0.00	
10,800.0	90.00	0.00	7,712.0	2,856.9	-486.4	2,856.9	0.00	0.00	
10,900.0	90.00	0.00	7,712.0	2,956.9	-486.4	2,956.9	0.00	0.00	
11,000.0	90.00	0.00	7,712.0	3,056.9	-486.4	3,056.9	0.00	0.00	
11,100.0	90.00	0.00	7,712.0	3,156.9	-486.4	3,156.9	0.00	0.00	
11,200.0	90.00	0.00	7,712.0	3,256.9	-486.4	3,256.9	0.00	0.00	
11,300.0	90.00	0.00	7,712.0	3,356.9	-486.4	3,356.9	0.00	0.00	
11,400.0	90.00	0.00	7,712.0	3,456.9	-486.4	3,456.9	0.00	0.00	
11,500.0	90.00	0.00	7,712.0	3,556.9	-486.4	3,556.9	0.00	0.00	
11,600.0	90.00	0.00	7,712.0	3,656.9	-486.4	3,656.9	0.00	0.00	
11,700.0	90.00	0.00	7,712.0	3,756.9	-486.4	3,756.9	0.00	0.00	
11,800.0	90.00	0.00	7,712.0	3,856.9	-486.4	3,856.9	0.00	0.00	
11,900.0	90.00	0.00	7,712.0	3,956.9	-486.4	3,956.9	0.00	0.00	
12,000.0	90.00	0.00	7,712.0	4,056.9	-486.4	4,056.9	0.00	0.00	
12,100.0	90.00	0.00	7,712.0	4,156.9	-486.4	4,156.9	0.00	0.00	
12,200.0	90.00	0.00	7,712.0	4,256.9	-486.4	4,256.9	0.00	0.00	
12,219.9	90.00	0.00	7,712.0	4,276.8	-486.4	4,276.8	0.00	0.00	TD at 12219.9 - Hwy 52 4I-32H-O268 PBHL

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Hwy 52 4I-32H-O268 PE	0.00	0.00	7,712.0	4,276.8	-486.4	1,280,023.81	3,132,419.79	40.101080	-105.026650
- plan hits target center									
- Point									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
328.0	328.0	Fox Hills - BASE				
4,399.2	4,382.0	Sussex				
4,666.4	4,648.0	Sussex Marker				
4,959.7	4,940.0	Shannon				
6,526.7	6,500.0	Teepee Buttes (*if present)				
7,295.8	7,265.0	Sharon Springs				
7,383.9	7,349.0	Niobrara				
7,461.6	7,419.0	B Chalk				
7,547.0	7,490.0	B Marl				
7,657.2	7,570.0	C Chalk				
7,701.7	7,598.0	C Marl				
7,877.2	7,680.0	Ft. Hayes				
7,962.5	7,702.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
742.4	741.6	-18.1	-18.1	EOB; Inc=5.42°	
7,131.6	7,102.1	-444.9	-445.4	Start build/turn @ 7131' MD	
8,069.9	7,712.0	126.8	-486.4	LP @ 7712' TVD; 90°	
12,219.9	7,712.0	4,276.8	-486.4	TD at 12219.9	

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S32-T2N-R68W (File/Hwy 52)**

**Hwy 52 4I-32H-O268**

**Hz**

**Plan #1**

## **Anticollision Report**

**05 July, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	7/5/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	12,219.9	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN	12,165.1	7,763.1	481.3	388.0	5.160	CC, ES
ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN	12,200.0	7,763.1	482.5	388.7	5.140	SF
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR	10,744.3	7,876.7	463.2	389.3	6.268	CC, ES
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR	10,800.0	7,877.7	466.5	391.7	6.234	SF
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR	11,375.6	7,943.9	95.5	17.4	1.223	Level 2, CC, ES, SF
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	0.0	0.0	397.6			
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	1,500.0	1,440.7	481.9	474.5	64.728	SF
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVE						Out of range
CANINO 2 (EXISTING) - HUGHES CW WELL - NO SUR						Out of range
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	200.0	143.0	39.4	38.8	68.796	CC, ES
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	800.0	741.9	60.4	57.7	22.305	SF
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1						Out of range
File 3B-32H-K268 - Hz - Plan #1						Out of range
File 3C-32H-K268 - Hz - Plan #1						Out of range
File 3D-32H-K268 - Hz - Plan #1						Out of range
File 3E-32H-K268 - Hz - Plan #1						Out of range
File 3F-32H-K268 - Hz - Plan #1						Out of range
File 3G-32H-K268 - Hz - Plan #1						Out of range
File 3H-32H-K268 - Hz - Plan #1	7,700.0	8,850.8	496.2	452.5	11.365	SF
File 3H-32H-K268 - Hz - Plan #1	7,800.0	8,766.1	491.1	449.3	11.757	ES
File 3H-32H-K268 - Hz - Plan #1	7,851.5	8,719.3	490.6	449.8	12.014	CC
File 3I-32H-K268 - Hz - Plan #1						Out of range
File 3J-32H-K268 - Hz - Plan #1						Out of range
File 3K-32H-K268 - Hz - Plan #1						Out of range
File 3L-32H-K268 - Hz - Plan #1						Out of range
File 3M-32H-K268 - Hz - Plan #1						Out of range
File 3N-32H-K268 - Hz - Plan #1						Out of range
File 3O-32H-K268 - Hz - Plan #1						Out of range
File 3P-32H-K268 - Hz - Plan #1	12,218.8	10,879.7	465.2	358.6	4.363	CC
File 3P-32H-K268 - Hz - Plan #1	12,220.5	10,880.7	465.2	358.5	4.361	ES, SF
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S32-T2N-R68W (File/Hwy 52)						
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
Hwy 52 4A-32H-O268 - Hz - Plan #1	166.0	168.0	60.0	59.5	113.094	CC
Hwy 52 4A-32H-O268 - Hz - Plan #1	300.0	301.0	60.3	59.3	60.446	ES
Hwy 52 4A-32H-O268 - Hz - Plan #1	7,471.9	7,687.7	114.2	84.7	3.872	SF
Hwy 52 4B-32H-O268 - Hz - Plan #1	166.3	167.3	55.3	54.8	104.392	CC
Hwy 52 4B-32H-O268 - Hz - Plan #1	300.0	300.0	55.6	54.6	55.886	ES
Hwy 52 4B-32H-O268 - Hz - Plan #1	7,756.5	7,745.7	159.0	131.3	5.746	SF
Hwy 52 4C-32H-O268 - Hz - Plan #1	801.8	802.0	33.9	31.0	11.746	CC, ES
Hwy 52 4C-32H-O268 - Hz - Plan #1	900.0	899.5	36.0	32.7	11.033	SF
Hwy 52 4D-32H-O268 - Hz - Plan #1	769.5	770.2	33.4	30.7	12.122	CC, ES
Hwy 52 4D-32H-O268 - Hz - Plan #1	800.0	800.5	33.7	30.9	11.739	SF
Hwy 52 4E-32H-O268 - Hz - Plan #1	692.0	692.4	21.3	18.9	8.717	CC
Hwy 52 4E-32H-O268 - Hz - Plan #1	700.0	700.4	21.3	18.8	8.613	ES
Hwy 52 4E-32H-O268 - Hz - Plan #1	800.0	799.9	23.5	20.7	8.257	SF
Hwy 52 4F-32H-O268 - Hz - Plan #1	581.8	582.6	21.9	19.9	10.831	CC, ES
Hwy 52 4F-32H-O268 - Hz - Plan #1	600.0	600.7	22.0	19.9	10.513	SF
Hwy 52 4G-32H-O268 - Hz - Plan #1	601.7	602.4	14.2	12.1	6.785	CC, ES
Hwy 52 4G-32H-O268 - Hz - Plan #1	700.0	700.4	16.2	13.7	6.584	SF
Hwy 52 4H-32H-O268 - Hz - Plan #1	468.6	469.5	14.9	13.3	9.300	CC
Hwy 52 4H-32H-O268 - Hz - Plan #1	500.0	500.9	15.0	13.2	8.730	ES
Hwy 52 4H-32H-O268 - Hz - Plan #1	600.0	600.7	16.7	14.7	8.054	SF
Hwy 52 4J-32H-O268 - Hz - Plan #1	200.0	200.0	7.8	7.2	12.094	CC, ES
Hwy 52 4J-32H-O268 - Hz - Plan #1	12,220.5	12,047.3	411.9	296.0	3.553	SF
Hwy 52 4K-32H-O268 - Hz - Plan #1	200.0	200.0	10.0	9.4	15.485	CC, ES
Hwy 52 4K-32H-O268 - Hz - Plan #1	400.0	400.0	12.7	11.4	9.440	SF
Hwy 52 4L-32H-O268 - Hz - Plan #1	200.0	200.0	16.2	15.5	25.017	CC, ES
Hwy 52 4L-32H-O268 - Hz - Plan #1	500.0	499.9	23.6	21.9	13.919	SF
Hwy 52 4M-32H-O268 - Hz - Plan #1	200.0	200.0	36.9	36.3	57.168	CC, ES
Hwy 52 4M-32H-O268 - Hz - Plan #1	700.0	698.8	56.0	53.6	23.326	SF
Hwy 52 4N-32H-O268 - Hz - Plan #1	200.0	200.0	43.0	42.3	66.535	CC, ES
Hwy 52 4N-32H-O268 - Hz - Plan #1	700.0	699.4	62.1	59.7	25.871	SF
Hwy 52 4O-32H-O268 - Hz - Plan #1	200.0	200.0	45.3	44.6	70.111	CC, ES
Hwy 52 4O-32H-O268 - Hz - Plan #1	700.0	696.5	69.9	67.5	29.019	SF
Hwy 52 4P-32H-O268 - Hz - Plan #1	200.0	200.0	51.3	50.6	79.369	CC, ES
Hwy 52 4P-32H-O268 - Hz - Plan #1	600.0	595.2	75.6	73.5	36.850	SF
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
NELSON E UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	232.0	226.2	397.1	396.3	517.412	CC, ES
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	1,400.0	1,345.5	489.7	484.9	102.241	SF
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	4,900.0	4,923.8	140.7	122.3	7.648	CC, ES
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	5,000.0	5,021.8	141.5	122.8	7.551	SF
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	143.0	134.0	399.6	399.2	925.759	CC, ES
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	800.0	716.6	483.6	481.0	186.142	SF
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	9,963.9	7,733.1	290.0	232.6	5.059	CC, ES
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU	10,000.0	7,733.5	292.2	234.3	5.046	SF
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	8,688.6	7,730.8	269.5	232.2	7.232	CC, ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	8,700.0	7,731.2	269.7	232.3	7.211	SF
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL	5,545.7	5,826.4	139.4	89.5	2.791	CC, ES, SF
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
Ray Nelson 7-8-32 - DD - Plan #1	200.0	191.0	403.4	402.8	640.300	CC, ES
Ray Nelson 7-8-32 - DD - Plan #1	1,100.0	1,052.2	482.7	478.7	120.930	SF
RAY NELSON 8-4-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-6-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	0.0	0.0	403.5			
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	900.0	818.1	497.3	493.9	145.476	SF
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1	6,647.9	6,603.6	66.2	36.6	2.237	CC, ES, SF
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - ANDERSON 31-32 (EXISTING) - ENCANA WELL - PLAN ONLY		Offset Site Error:		0.0 ft
Survey Program:													850-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
12,100.0	7,712.0	7,763.1	7,659.0	76.4	23.8	90.00	4,222.0	-5.1	485.7	393.5	92.15	5.271					
12,165.1	7,712.0	7,763.1	7,659.0	77.5	23.8	90.00	4,222.0	-5.1	481.3	388.0	93.27	5.160	CC, ES				
12,200.0	7,712.0	7,763.1	7,659.0	78.1	23.8	90.00	4,222.0	-5.1	482.5	388.7	93.87	5.140	SF				
12,220.5	7,712.0	7,763.1	7,659.0	78.5	23.8	90.00	4,222.0	-5.1	484.5	390.2	94.23	5.141					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - ANDERSON 32-32 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft
Survey Program:													71-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
10,600.0	7,712.0	7,874.0	7,668.7	51.0	27.9	91.20	2,801.1	-23.3	485.1	413.7	71.45	6.789					
10,700.0	7,712.0	7,875.8	7,670.6	52.7	27.9	91.44	2,801.2	-23.4	465.3	392.1	73.14	6.361					
10,744.3	7,712.0	7,876.7	7,671.4	53.4	27.9	91.54	2,801.2	-23.4	463.2	389.3	73.89	6.268	CC, ES				
10,800.0	7,712.0	7,877.7	7,672.5	54.3	27.9	91.67	2,801.2	-23.4	466.5	391.7	74.83	6.234	SF				
10,900.0	7,712.0	7,879.6	7,674.4	56.0	27.9	91.90	2,801.3	-23.5	488.6	412.1	76.53	6.385					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,900.0	7,712.0	7,947.4	7,673.8	56.0	32.3	-91.10	3,432.5	-581.9	485.1	415.2	69.94	6.936	
11,000.0	7,712.0	7,946.7	7,673.1	57.7	32.3	-90.65	3,432.5	-581.9	387.6	315.9	71.66	5.408	
11,100.0	7,712.0	7,945.9	7,672.3	59.4	32.3	-90.20	3,432.5	-581.9	291.7	218.3	73.38	3.975	
11,200.0	7,712.0	7,945.2	7,671.6	61.1	32.3	-89.76	3,432.5	-581.9	199.9	124.8	75.10	2.662	
11,300.0	7,712.0	7,944.5	7,670.9	62.8	32.3	-89.31	3,432.5	-581.9	121.8	45.0	76.82	1.586	
11,375.6	7,712.0	7,943.9	7,670.3	64.1	32.3	-88.98	3,432.5	-581.9	95.5	17.4	78.12	1.223	Level 2, CC, ES, SF
11,400.0	7,712.0	7,943.7	7,670.1	64.5	32.3	-88.88	3,432.5	-581.9	98.6	20.0	78.54	1.255	Level 3
11,500.0	7,712.0	7,943.0	7,669.4	66.2	32.3	-88.44	3,432.6	-581.9	156.8	76.6	80.25	1.954	
11,600.0	7,712.0	7,943.0	7,669.4	67.9	32.3	-88.44	3,432.6	-581.9	243.9	161.9	81.97	2.975	
11,700.0	7,712.0	7,941.6	7,668.0	69.6	32.3	-87.58	3,432.6	-581.8	338.1	254.5	83.67	4.041	
11,800.0	7,712.0	7,940.9	7,667.3	71.3	32.3	-87.15	3,432.6	-581.8	435.0	349.6	85.38	5.095	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 41-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 41-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	58.49	207.8	338.9	397.6						
100.0	100.0	88.0	88.0	0.1	0.1	58.54	207.7	339.5	398.0	397.7	0.28	1,441.340			
200.0	200.0	187.3	187.3	0.3	0.3	58.62	207.7	340.5	398.9	398.2	0.63	638.013			
300.0	300.0	288.9	288.9	0.5	0.5	-166.33	207.4	341.6	400.5	399.5	0.98	410.161			
400.0	400.0	400.0	400.0	0.7	0.7	-166.12	205.1	341.9	402.2	400.8	1.35	297.796			
500.0	499.9	508.1	507.9	0.9	0.9	-165.48	198.4	341.6	403.0	401.3	1.73	232.385			
600.0	599.7	616.9	615.9	1.1	1.2	-164.19	186.2	342.1	403.7	401.5	2.16	186.561			
700.0	699.4	721.0	718.6	1.3	1.5	-162.34	169.3	343.1	404.3	401.6	2.64	152.996			
800.0	798.9	813.6	809.7	1.5	1.8	-160.49	152.7	345.1	407.0	403.9	3.12	130.457			
900.0	898.5	910.3	904.7	1.7	2.1	-158.42	134.7	348.8	411.6	407.9	3.65	112.840			
1,000.0	998.0	1,010.3	1,002.4	2.0	2.5	-156.06	114.4	353.5	416.9	412.7	4.24	98.279			
1,100.0	1,097.6	1,104.0	1,093.1	2.2	3.0	-153.34	91.4	359.4	423.1	418.2	4.89	86.521			
1,200.0	1,197.1	1,191.0	1,176.6	2.4	3.4	-150.57	68.3	366.9	432.0	426.4	5.53	78.080			
1,300.0	1,296.7	1,279.0	1,260.7	2.7	3.8	-147.73	44.4	377.1	444.7	438.5	6.21	71.647			
1,400.0	1,396.2	1,359.2	1,337.1	2.9	4.3	-145.24	22.8	388.6	461.4	454.6	6.83	67.583			
1,500.0	1,495.8	1,440.7	1,414.5	3.1	4.7	-142.90	1.6	402.4	481.9	474.5	7.45	64.728 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - CANINO 3 (EXISTING) - HUGHES CW WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7800-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	107.55	-11.9	37.6	69.3					
100.0	100.0	43.0	43.0	0.1	0.1	107.55	-11.9	37.6	39.4	39.2	0.22	176.192		
200.0	200.0	143.0	143.0	0.3	0.2	107.55	-11.9	37.6	39.4	38.8	0.57	68.796 CC, ES		
300.0	300.0	243.0	243.0	0.5	0.4	-118.60	-11.9	37.6	39.8	38.9	0.92	43.155		
400.0	400.0	343.0	343.0	0.7	0.6	-121.79	-11.9	37.6	41.1	39.8	1.28	32.252		
500.0	499.9	442.9	442.9	0.9	0.8	-126.65	-11.9	37.6	43.6	41.9	1.63	26.707		
600.0	599.7	542.7	542.7	1.1	0.9	-132.53	-11.9	37.6	47.5	45.5	1.99	23.839		
700.0	699.4	642.4	642.4	1.3	1.1	-138.74	-11.9	37.6	53.1	50.8	2.35	22.579		
800.0	798.9	741.9	741.9	1.5	1.3	-144.54	-11.9	37.6	60.4	57.7	2.71	22.305 SF		
900.0	898.5	841.5	841.5	1.7	1.5	-149.13	-11.9	37.6	68.3	65.3	3.06	22.324		
1,000.0	998.0	941.0	941.0	2.0	1.6	-152.76	-11.9	37.6	76.6	73.2	3.41	22.457		
1,100.0	1,097.6	1,040.6	1,040.6	2.2	1.8	-155.67	-11.9	37.6	85.1	81.4	3.76	22.641		
1,200.0	1,197.1	1,140.1	1,140.1	2.4	2.0	-158.05	-11.9	37.6	93.8	89.7	4.11	22.843		
1,300.0	1,296.7	1,239.7	1,239.7	2.7	2.2	-160.02	-11.9	37.6	102.7	98.2	4.46	23.046		
1,400.0	1,396.2	1,339.2	1,339.2	2.9	2.3	-161.67	-11.9	37.6	111.6	106.8	4.80	23.243		
1,500.0	1,495.8	1,438.8	1,438.8	3.1	2.5	-163.09	-11.9	37.6	120.6	115.5	5.15	23.430		
1,600.0	1,595.4	1,538.4	1,538.4	3.4	2.7	-164.30	-11.9	37.6	129.7	124.2	5.49	23.605		
1,700.0	1,694.9	1,637.9	1,637.9	3.6	2.9	-165.36	-11.9	37.6	138.8	133.0	5.84	23.768		
1,800.0	1,794.5	1,737.5	1,737.5	3.9	3.0	-166.28	-11.9	37.6	148.0	141.8	6.19	23.919		
1,900.0	1,894.0	1,837.0	1,837.0	4.1	3.2	-167.10	-11.9	37.6	157.2	150.7	6.53	24.059		
2,000.0	1,993.6	1,936.6	1,936.6	4.3	3.4	-167.82	-11.9	37.6	166.4	159.5	6.88	24.189		
2,100.0	2,093.1	2,036.1	2,036.1	4.6	3.6	-168.47	-11.9	37.6	175.7	168.4	7.23	24.309		
2,200.0	2,192.7	2,135.7	2,135.7	4.8	3.7	-169.06	-11.9	37.6	184.9	177.4	7.57	24.421		
2,300.0	2,292.2	2,235.2	2,235.2	5.1	3.9	-169.59	-11.9	37.6	194.2	186.3	7.92	24.525		
2,400.0	2,391.8	2,334.8	2,334.8	5.3	4.1	-170.07	-11.9	37.6	203.5	195.3	8.27	24.622		
2,500.0	2,491.3	2,434.3	2,434.3	5.5	4.2	-170.51	-11.9	37.6	212.9	204.2	8.61	24.713		
2,600.0	2,590.9	2,533.9	2,533.9	5.8	4.4	-170.91	-11.9	37.6	222.2	213.2	8.96	24.797		
2,700.0	2,690.4	2,633.4	2,633.4	6.0	4.6	-171.28	-11.9	37.6	231.5	222.2	9.31	24.876		
2,800.0	2,790.0	2,733.0	2,733.0	6.3	4.8	-171.62	-11.9	37.6	240.9	231.2	9.65	24.951		
2,900.0	2,889.5	2,832.5	2,832.5	6.5	4.9	-171.94	-11.9	37.6	250.2	240.2	10.00	25.020		
3,000.0	2,989.1	2,932.1	2,932.1	6.7	5.1	-172.23	-11.9	37.6	259.6	249.2	10.35	25.086		
3,100.0	3,088.6	3,031.6	3,031.6	7.0	5.3	-172.50	-11.9	37.6	269.0	258.3	10.69	25.148		
3,200.0	3,188.2	3,131.2	3,131.2	7.2	5.5	-172.75	-11.9	37.6	278.3	267.3	11.04	25.206		
3,300.0	3,287.7	3,230.7	3,230.7	7.4	5.6	-172.99	-11.9	37.6	287.7	276.3	11.39	25.261		
3,400.0	3,387.3	3,330.3	3,330.3	7.7	5.8	-173.21	-11.9	37.6	297.1	285.4	11.74	25.314		
3,500.0	3,486.8	3,429.8	3,429.8	7.9	6.0	-173.42	-11.9	37.6	306.5	294.4	12.08	25.363		
3,600.0	3,586.4	3,529.4	3,529.4	8.2	6.2	-173.62	-11.9	37.6	315.9	303.4	12.43	25.410		
3,700.0	3,685.9	3,628.9	3,628.9	8.4	6.3	-173.80	-11.9	37.6	325.3	312.5	12.78	25.455		
3,800.0	3,785.5	3,728.5	3,728.5	8.6	6.5	-173.98	-11.9	37.6	334.7	321.5	13.13	25.497		
3,900.0	3,885.1	3,828.1	3,828.1	8.9	6.7	-174.14	-11.9	37.6	344.1	330.6	13.47	25.538		
4,000.0	3,984.6	3,927.6	3,927.6	9.1	6.9	-174.30	-11.9	37.6	353.5	339.7	13.82	25.576		
4,100.0	4,084.2	4,027.2	4,027.2	9.4	7.0	-174.45	-11.9	37.6	362.9	348.7	14.17	25.613		
4,200.0	4,183.7	4,126.7	4,126.7	9.6	7.2	-174.59	-11.9	37.6	372.3	357.8	14.52	25.648		
4,300.0	4,283.3	4,226.3	4,226.3	9.8	7.4	-174.72	-11.9	37.6	381.7	366.8	14.86	25.682		
4,400.0	4,382.8	4,325.8	4,325.8	10.1	7.6	-174.85	-11.9	37.6	391.1	375.9	15.21	25.714		
4,500.0	4,482.4	4,425.4	4,425.4	10.3	7.7	-174.97	-11.9	37.6	400.5	385.0	15.56	25.745		
4,600.0	4,581.9	4,524.9	4,524.9	10.6	7.9	-175.09	-11.9	37.6	409.9	394.0	15.91	25.774		
4,700.0	4,681.5	4,624.5	4,624.5	10.8	8.1	-175.20	-11.9	37.6	419.4	403.1	16.25	25.803		
4,800.0	4,781.0	4,724.0	4,724.0	11.0	8.2	-175.30	-11.9	37.6	428.8	412.2	16.60	25.830		
4,900.0	4,880.6	4,823.6	4,823.6	11.3	8.4	-175.40	-11.9	37.6	438.2	421.3	16.95	25.856		
5,000.0	4,980.1	4,923.1	4,923.1	11.5	8.6	-175.50	-11.9	37.6	447.6	430.3	17.30	25.881		
5,100.0	5,079.7	5,022.7	5,022.7	11.8	8.8	-175.59	-11.9	37.6	457.1	439.4	17.64	25.905		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - CANINO 3 (EXISTING) - HUGHES CW WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													7800-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor							
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,200.0	5,179.2	5,122.2	5,122.2	12.0	8.9	-175.68	-11.9	37.6	466.5	448.5	17.99	25.929						
5,300.0	5,278.8	5,221.8	5,221.8	12.3	9.1	-175.77	-11.9	37.6	475.9	457.6	18.34	25.951						
5,400.0	5,378.3	5,321.3	5,321.3	12.5	9.3	-175.85	-11.9	37.6	485.3	466.6	18.69	25.973						
5,500.0	5,477.9	5,420.9	5,420.9	12.7	9.5	-175.93	-11.9	37.6	494.8	475.7	19.03	25.994						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3H-32H-K268 - Hz - Plan #1											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
7,700.0	7,597.0	8,850.8	7,606.0	16.2	32.0	-92.07	-217.9	-973.2	496.2	452.5	43.66	11.365 SF	
7,800.0	7,649.8	8,766.1	7,606.0	16.1	30.8	-87.89	-133.2	-973.2	491.1	449.3	41.77	11.757 ES	
7,851.5	7,671.0	8,719.3	7,606.0	16.1	30.2	-85.85	-86.3	-973.1	490.6	449.8	40.84	12.014 CC	
7,900.0	7,687.1	8,673.5	7,606.0	16.2	29.5	-84.17	-40.6	-973.1	490.9	450.9	39.98	12.278	
8,000.0	7,707.8	8,575.8	7,606.0	16.4	28.2	-81.85	57.1	-973.1	492.0	453.4	38.59	12.751	
8,100.0	7,712.0	8,476.0	7,606.0	16.8	26.9	-81.36	157.0	-973.1	492.3	454.7	37.62	13.086	
8,200.0	7,712.0	8,376.0	7,606.0	17.3	25.6	-81.36	257.0	-973.1	492.3	455.5	36.82	13.371	
8,300.0	7,712.0	8,276.0	7,606.0	18.0	24.5	-81.36	357.0	-973.1	492.3	456.1	36.23	13.588	
8,400.0	7,712.0	8,176.0	7,606.0	18.9	23.3	-81.36	457.0	-973.1	492.3	456.5	35.84	13.736	
8,500.0	7,712.0	8,076.0	7,606.0	19.9	22.3	-81.35	557.0	-973.1	492.3	456.7	35.64	13.814	
8,600.0	7,712.0	7,976.0	7,606.0	20.9	21.4	-81.35	657.0	-973.1	492.3	456.7	35.61	13.823	
8,603.6	7,712.0	7,972.4	7,606.0	21.0	21.3	-81.35	660.5	-973.1	492.3	456.7	35.62	13.822	
8,700.0	7,712.0	7,893.8	7,600.6	22.1	20.7	-80.75	738.9	-973.7	494.0	458.1	35.92	13.753	
8,800.0	7,712.0	7,815.3	7,584.7	23.3	20.1	-78.97	815.7	-975.4	499.9	463.6	36.31	13.768	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - File 3P-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,712.0	7,650.0	7,367.6	24.6	19.7	-49.06	1,047.3	-846.5	485.3	455.3	30.00	16.174		
9,000.0	7,712.0	7,700.0	7,376.9	26.0	19.7	-49.83	1,096.3	-845.4	471.5	440.2	31.31	15.057		
9,100.0	7,712.0	7,769.4	7,382.8	27.3	19.7	-50.33	1,165.4	-844.7	465.6	432.9	32.68	14.248		
9,143.4	7,712.0	7,804.3	7,383.0	28.0	19.8	-50.34	1,200.4	-844.7	465.4	432.1	33.26	13.991		
9,200.0	7,712.0	7,860.9	7,383.0	28.8	19.9	-50.34	1,257.0	-844.7	465.4	431.3	34.10	13.647		
9,300.0	7,712.0	7,960.9	7,383.0	30.2	20.2	-50.34	1,357.0	-844.7	465.4	429.7	35.69	13.038		
9,400.0	7,712.0	8,060.9	7,383.0	31.7	20.7	-50.34	1,457.0	-844.6	465.4	427.9	37.44	12.430		
9,500.0	7,712.0	8,160.9	7,383.0	33.3	21.3	-50.34	1,557.0	-844.6	465.4	426.0	39.31	11.837		
9,600.0	7,712.0	8,260.9	7,383.0	34.8	22.1	-50.34	1,657.0	-844.6	465.3	424.0	41.31	11.266		
9,700.0	7,712.0	8,360.9	7,383.0	36.4	22.9	-50.34	1,757.0	-844.6	465.3	421.9	43.39	10.724		
9,800.0	7,712.0	8,460.9	7,383.0	38.0	23.9	-50.34	1,857.0	-844.6	465.3	419.8	45.56	10.213		
9,900.0	7,712.0	8,560.9	7,383.0	39.5	24.9	-50.34	1,957.0	-844.6	465.3	417.5	47.80	9.735		
10,000.0	7,712.0	8,660.9	7,383.0	41.2	26.0	-50.34	2,057.0	-844.6	465.3	415.2	50.09	9.289		
10,100.0	7,712.0	8,760.9	7,383.0	42.8	27.2	-50.34	2,157.0	-844.6	465.3	412.9	52.44	8.874		
10,200.0	7,712.0	8,860.9	7,383.0	44.4	28.5	-50.34	2,257.0	-844.6	465.3	410.5	54.82	8.488		
10,300.0	7,712.0	8,960.9	7,383.0	46.0	29.8	-50.34	2,357.0	-844.6	465.3	408.1	57.24	8.130		
10,400.0	7,712.0	9,060.9	7,383.0	47.7	31.1	-50.34	2,457.0	-844.6	465.3	405.6	59.68	7.796		
10,500.0	7,712.0	9,160.9	7,383.0	49.3	32.5	-50.33	2,557.0	-844.6	465.3	403.1	62.16	7.486		
10,600.0	7,712.0	9,260.9	7,383.0	51.0	33.9	-50.33	2,657.0	-844.6	465.3	400.6	64.65	7.197		
10,700.0	7,712.0	9,360.9	7,383.0	52.7	35.3	-50.33	2,757.0	-844.6	465.3	398.1	67.17	6.928		
10,800.0	7,712.0	9,460.9	7,383.0	54.3	36.8	-50.33	2,857.0	-844.6	465.3	395.6	69.70	6.676		
10,900.0	7,712.0	9,560.9	7,383.0	56.0	38.3	-50.33	2,957.0	-844.5	465.3	393.0	72.24	6.441		
11,000.0	7,712.0	9,660.9	7,383.0	57.7	39.8	-50.33	3,057.0	-844.5	465.3	390.5	74.80	6.220		
11,100.0	7,712.0	9,760.9	7,383.0	59.4	41.4	-50.33	3,157.0	-844.5	465.3	387.9	77.37	6.014		
11,200.0	7,712.0	9,860.9	7,383.0	61.1	42.9	-50.33	3,257.0	-844.5	465.3	385.3	79.95	5.819		
11,300.0	7,712.0	9,960.9	7,383.0	62.8	44.5	-50.33	3,357.0	-844.5	465.3	382.7	82.54	5.637		
11,400.0	7,712.0	10,060.9	7,383.0	64.5	46.1	-50.33	3,457.0	-844.5	465.3	380.1	85.14	5.465		
11,500.0	7,712.0	10,160.9	7,383.0	66.2	47.6	-50.33	3,557.0	-844.5	465.2	377.5	87.74	5.302		
11,600.0	7,712.0	10,260.9	7,383.0	67.9	49.2	-50.33	3,657.0	-844.5	465.2	374.9	90.35	5.149		
11,700.0	7,712.0	10,360.9	7,383.0	69.6	50.9	-50.33	3,757.0	-844.5	465.2	372.3	92.97	5.004		
11,800.0	7,712.0	10,460.9	7,383.0	71.3	52.5	-50.33	3,857.0	-844.5	465.2	369.6	95.59	4.867		
11,900.0	7,712.0	10,560.9	7,383.0	73.0	54.1	-50.33	3,957.0	-844.5	465.2	367.0	98.22	4.736		
12,000.0	7,712.0	10,660.9	7,383.0	74.7	55.8	-50.33	4,057.0	-844.5	465.2	364.4	100.86	4.613		
12,100.0	7,712.0	10,760.9	7,383.0	76.4	57.4	-50.33	4,157.0	-844.5	465.2	361.7	103.49	4.495		
12,200.0	7,712.0	10,860.9	7,383.0	78.1	59.0	-50.33	4,257.0	-844.5	465.2	359.1	106.13	4.383		
12,218.8	7,712.0	10,879.7	7,383.0	78.5	59.4	-50.33	4,275.8	-844.5	465.2	358.6	106.63	4.363 CC		
12,220.5	7,712.0	10,880.7	7,383.0	78.5	59.4	-50.33	4,276.8	-844.5	465.2	358.5	106.67	4.361 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4A-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	2.0	2.0	0.0	0.0	-89.69	0.3	-60.0	60.0					
100.0	100.0	102.0	102.0	0.1	0.2	-89.69	0.3	-60.0	60.0	59.7	0.30	199.869		
166.0	166.0	168.0	168.0	0.3	0.3	-89.69	0.3	-60.0	60.0	59.5	0.53	113.094 CC		
200.0	200.0	202.0	202.0	0.3	0.3	-89.69	0.3	-60.0	60.0	59.4	0.65	92.417		
300.0	300.0	301.0	301.0	0.5	0.5	46.05	0.5	-60.9	60.3	59.3	1.00	60.446 ES		
400.0	400.0	400.0	400.0	0.7	0.7	48.33	1.1	-63.4	61.1	59.7	1.35	45.316		
500.0	499.9	498.8	498.6	0.9	0.9	51.96	2.2	-67.6	62.6	60.9	1.70	36.742		
600.0	599.7	597.5	597.2	1.1	1.1	56.74	3.6	-73.4	65.1	63.0	2.07	31.457		
700.0	699.4	696.7	696.1	1.3	1.3	62.36	5.3	-80.6	68.6	66.2	2.45	27.977		
800.0	798.9	796.4	795.5	1.5	1.5	68.46	7.1	-88.0	72.3	69.5	2.85	25.341		
900.0	898.5	896.0	894.8	1.7	1.7	74.03	8.9	-95.4	76.8	73.5	3.27	23.482		
1,000.0	998.0	995.7	994.2	2.0	1.9	78.96	10.7	-102.8	81.9	78.2	3.69	22.162		
1,100.0	1,097.6	1,095.3	1,093.5	2.2	2.1	83.28	12.5	-110.2	87.5	83.3	4.12	21.211		
1,200.0	1,197.1	1,194.9	1,192.9	2.4	2.3	87.07	14.3	-117.6	93.5	89.0	4.56	20.516		
1,300.0	1,296.7	1,294.6	1,292.2	2.7	2.6	90.39	16.1	-125.0	99.9	94.9	5.00	20.004		
1,400.0	1,396.2	1,394.2	1,391.6	2.9	2.8	93.30	17.9	-132.4	106.6	101.2	5.43	19.623		
1,500.0	1,495.8	1,493.8	1,490.9	3.1	3.0	95.86	19.7	-139.8	113.6	107.7	5.87	19.337		
1,600.0	1,595.4	1,593.5	1,590.3	3.4	3.2	98.12	21.5	-147.2	120.7	114.4	6.31	19.122		
1,700.0	1,694.9	1,693.1	1,689.6	3.6	3.4	100.13	23.3	-154.6	128.0	121.3	6.75	18.960		
1,800.0	1,794.5	1,792.8	1,789.0	3.9	3.6	101.92	25.0	-162.0	135.5	128.3	7.19	18.839		
1,900.0	1,894.0	1,892.4	1,888.3	4.1	3.9	103.52	26.8	-169.3	143.0	135.4	7.63	18.747		
2,000.0	1,993.6	1,992.0	1,987.7	4.3	4.1	104.96	28.6	-176.7	150.7	142.6	8.07	18.679		
2,100.0	2,093.1	2,091.7	2,087.0	4.6	4.3	106.26	30.4	-184.1	158.5	149.9	8.51	18.629		
2,200.0	2,192.7	2,191.3	2,186.3	4.8	4.5	107.44	32.2	-191.5	166.3	157.3	8.94	18.593		
2,300.0	2,292.2	2,290.9	2,285.7	5.1	4.7	108.51	34.0	-198.9	174.2	164.8	9.38	18.569		
2,400.0	2,391.8	2,390.6	2,385.0	5.3	4.9	109.49	35.8	-206.3	182.1	172.3	9.82	18.552		
2,500.0	2,491.3	2,490.2	2,484.4	5.5	5.2	110.38	37.6	-213.7	190.1	179.9	10.25	18.543		
2,600.0	2,590.9	2,589.9	2,583.7	5.8	5.4	111.21	39.4	-221.1	198.1	187.5	10.69	18.539		
2,700.0	2,690.4	2,689.5	2,683.1	6.0	5.6	111.97	41.2	-228.5	206.2	195.1	11.12	18.539		
2,800.0	2,790.0	2,789.1	2,782.4	6.3	5.8	112.67	43.0	-235.9	214.3	202.8	11.56	18.543		
2,900.0	2,889.5	2,888.8	2,881.8	6.5	6.0	113.32	44.8	-243.3	222.5	210.5	11.99	18.550		
3,000.0	2,989.1	2,988.4	2,981.1	6.7	6.3	113.93	46.6	-250.7	230.6	218.2	12.43	18.558		
3,100.0	3,088.6	3,088.1	3,080.5	7.0	6.5	114.49	48.4	-258.1	238.8	226.0	12.86	18.568		
3,200.0	3,188.2	3,187.7	3,179.8	7.2	6.7	115.02	50.2	-265.5	247.0	233.7	13.30	18.580		
3,300.0	3,287.7	3,287.3	3,279.2	7.4	6.9	115.51	51.9	-272.9	255.2	241.5	13.73	18.592		
3,400.0	3,387.3	3,387.0	3,378.5	7.7	7.1	115.97	53.7	-280.3	263.5	249.3	14.16	18.605		
3,500.0	3,486.8	3,486.6	3,477.9	7.9	7.4	116.40	55.5	-287.7	271.8	257.2	14.60	18.619		
3,600.0	3,586.4	3,586.2	3,577.2	8.2	7.6	116.81	57.3	-295.0	280.0	265.0	15.03	18.633		
3,700.0	3,685.9	3,685.9	3,676.6	8.4	7.8	117.20	59.1	-302.4	288.3	272.9	15.46	18.648		
3,800.0	3,785.5	3,785.5	3,775.9	8.6	8.0	117.56	60.9	-309.8	296.6	280.7	15.89	18.662		
3,900.0	3,885.1	3,885.2	3,875.2	8.9	8.2	117.90	62.7	-317.2	304.9	288.6	16.33	18.677		
4,000.0	3,984.6	3,984.8	3,974.6	9.1	8.4	118.23	64.5	-324.6	313.3	296.5	16.76	18.692		
4,100.0	4,084.2	4,084.4	4,073.9	9.4	8.7	118.54	66.3	-332.0	321.6	304.4	17.19	18.706		
4,200.0	4,183.7	4,184.1	4,173.3	9.6	8.9	118.83	68.1	-339.4	329.9	312.3	17.62	18.721		
4,300.0	4,283.3	4,283.7	4,272.6	9.8	9.1	119.11	69.9	-346.8	338.3	320.2	18.06	18.735		
4,400.0	4,382.8	4,383.3	4,372.0	10.1	9.3	119.37	71.7	-354.2	346.6	328.2	18.49	18.749		
4,500.0	4,482.4	4,483.0	4,471.3	10.3	9.5	119.63	73.5	-361.6	355.0	336.1	18.92	18.763		
4,600.0	4,581.9	4,582.6	4,570.7	10.6	9.8	119.87	75.3	-369.0	363.4	344.0	19.35	18.777		
4,700.0	4,681.5	4,682.3	4,670.0	10.8	10.0	120.10	77.1	-376.4	371.7	352.0	19.78	18.790		
4,800.0	4,781.0	4,781.9	4,769.4	11.0	10.2	120.32	78.8	-383.8	380.1	359.9	20.22	18.804		
4,900.0	4,880.6	4,881.5	4,868.7	11.3	10.4	120.53	80.6	-391.2	388.5	367.9	20.65	18.817		
5,000.0	4,980.1	4,981.2	4,968.1	11.5	10.6	120.73	82.4	-398.6	396.9	375.8	21.08	18.830		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4A-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,079.7	5,080.8	5,067.4	11.8	10.9	120.92	84.2	-406.0	405.3	383.8	21.51	18.842		
5,200.0	5,179.2	5,180.4	5,166.8	12.0	11.1	121.11	86.0	-413.4	413.7	391.8	21.94	18.855		
5,300.0	5,278.8	5,280.1	5,266.1	12.3	11.3	121.28	87.8	-420.7	422.1	399.7	22.37	18.867		
5,400.0	5,378.3	5,379.7	5,365.4	12.5	11.5	121.46	89.6	-428.1	430.5	407.7	22.80	18.879		
5,500.0	5,477.9	5,479.4	5,464.8	12.7	11.7	121.62	91.4	-435.5	438.9	415.7	23.24	18.890		
5,600.0	5,577.4	5,579.0	5,564.1	13.0	11.9	121.78	93.2	-442.9	447.4	423.7	23.67	18.902		
5,700.0	5,677.0	5,678.6	5,663.5	13.2	12.2	121.93	95.0	-450.3	455.8	431.7	24.10	18.913		
5,800.0	5,776.5	5,778.3	5,762.8	13.5	12.4	122.08	96.8	-457.7	464.2	439.7	24.53	18.924		
5,900.0	5,876.1	5,877.9	5,862.2	13.7	12.6	122.22	98.6	-465.1	472.6	447.7	24.96	18.934		
6,000.0	5,975.7	5,977.5	5,961.5	13.9	12.8	122.36	100.4	-472.5	481.1	455.7	25.39	18.945		
6,100.0	6,075.2	6,077.2	6,060.9	14.2	13.0	122.49	102.2	-479.9	489.5	463.7	25.82	18.955		
6,200.0	6,174.8	6,176.8	6,160.2	14.4	13.3	122.61	104.0	-487.3	497.9	471.7	26.25	18.965		
7,000.0	6,971.2	7,668.9	7,419.0	16.3	17.5	90.42	-349.8	-581.0	476.5	442.8	33.70	14.139		
7,100.0	7,070.7	7,738.4	7,427.8	16.6	18.0	67.78	-418.7	-581.6	381.8	348.5	33.24	11.484		
7,200.0	7,170.4	7,755.5	7,428.6	16.8	18.2	-40.21	-435.8	-581.7	288.3	258.1	30.15	9.561		
7,300.0	7,269.1	7,741.0	7,427.9	16.8	18.1	-86.77	-421.2	-581.6	200.8	172.4	28.40	7.072		
7,400.0	7,363.8	7,712.6	7,425.5	16.7	17.8	-89.87	-392.9	-581.5	132.8	104.2	28.63	4.640		
7,471.9	7,427.9	7,687.7	7,422.2	16.6	17.6	-82.33	-368.3	-581.2	114.2	84.7	29.49	3.872 SF		
7,500.0	7,451.8	7,677.3	7,420.5	16.6	17.5	-77.78	-358.0	-581.1	117.1	87.3	29.84	3.924		
7,600.0	7,530.3	7,638.0	7,412.5	16.4	17.2	-57.98	-319.6	-580.5	162.5	132.7	29.83	5.449		
7,700.0	7,597.0	7,600.0	7,402.2	16.2	16.9	-40.64	-283.0	-579.7	230.6	203.4	27.18	8.484		
7,800.0	7,649.8	7,550.0	7,385.0	16.1	16.6	-27.35	-236.1	-578.5	301.6	278.4	23.26	12.967		
7,900.0	7,687.1	7,500.0	7,363.9	16.2	16.3	-19.57	-190.8	-576.9	369.9	349.9	19.97	18.525		
8,000.0	7,707.8	7,463.6	7,346.0	16.4	16.2	-15.23	-159.1	-575.5	432.5	414.5	18.01	24.017		
8,100.0	7,712.0	7,418.1	7,321.0	16.8	16.0	-12.52	-121.2	-573.7	489.4	471.9	17.48	27.991		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4B-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	-83.47	6.3	-55.0	55.3					
100.0	100.0	101.0	101.0	0.1	0.2	-83.47	6.3	-55.0	55.3	55.0	0.30	185.378		
166.3	166.3	167.3	167.3	0.3	0.3	-83.47	6.3	-55.0	55.3	54.8	0.53	104.392 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-83.47	6.3	-55.0	55.3	54.7	0.65	85.445		
300.0	300.0	300.0	300.0	0.5	0.5	52.46	6.6	-55.8	55.6	54.6	1.00	55.886 ES		
400.0	400.0	399.1	399.0	0.7	0.7	55.28	7.7	-58.1	56.6	55.3	1.35	42.035		
500.0	499.9	498.6	498.5	0.9	0.9	59.70	9.3	-61.7	58.2	56.5	1.71	34.099		
600.0	599.7	598.5	598.3	1.1	1.0	65.40	11.0	-65.4	59.4	57.3	2.08	28.603		
700.0	699.4	698.2	697.9	1.3	1.2	72.37	12.6	-69.1	60.6	58.2	2.46	24.598		
800.0	798.9	797.8	797.4	1.5	1.4	80.26	14.2	-72.9	62.5	59.6	2.87	21.773		
900.0	898.5	897.4	897.0	1.7	1.6	87.71	15.9	-76.6	65.4	62.1	3.28	19.946		
1,000.0	998.0	997.0	996.5	2.0	1.8	94.42	17.5	-80.3	69.4	65.7	3.69	18.795		
1,100.0	1,097.6	1,096.6	1,096.0	2.2	2.0	100.34	19.2	-84.0	74.2	70.1	4.10	18.091		
1,200.0	1,197.1	1,196.2	1,195.5	2.4	2.2	105.50	20.8	-87.7	79.7	75.2	4.51	17.685		
1,300.0	1,296.7	1,295.8	1,295.1	2.7	2.4	109.96	22.5	-91.4	85.8	80.9	4.91	17.476		
1,400.0	1,396.2	1,395.5	1,394.6	2.9	2.5	113.81	24.1	-95.1	92.3	87.0	5.30	17.397		
1,500.0	1,495.8	1,495.1	1,494.1	3.1	2.7	117.15	25.8	-98.8	99.2	93.5	5.70	17.405		
1,600.0	1,595.4	1,594.7	1,593.6	3.4	2.9	120.04	27.4	-102.5	106.3	100.2	6.09	17.468		
1,700.0	1,694.9	1,694.3	1,693.2	3.6	3.1	122.57	29.0	-106.2	113.7	107.2	6.47	17.567		
1,800.0	1,794.5	1,793.9	1,792.7	3.9	3.3	124.78	30.7	-109.9	121.3	114.5	6.86	17.688		
1,900.0	1,894.0	1,893.5	1,892.2	4.1	3.5	126.73	32.3	-113.6	129.1	121.8	7.24	17.823		
2,000.0	1,993.6	1,993.1	1,991.8	4.3	3.7	128.46	34.0	-117.3	137.0	129.3	7.62	17.965		
2,100.0	2,093.1	2,092.7	2,091.3	4.6	3.9	130.00	35.6	-121.0	145.0	137.0	8.00	18.109		
2,200.0	2,192.7	2,192.3	2,190.8	4.8	4.0	131.38	37.3	-124.7	153.1	144.7	8.38	18.253		
2,300.0	2,292.2	2,291.9	2,290.3	5.1	4.2	132.62	38.9	-128.4	161.2	152.5	8.76	18.395		
2,400.0	2,391.8	2,391.5	2,389.9	5.3	4.4	133.73	40.6	-132.1	169.5	160.3	9.14	18.535		
2,500.0	2,491.3	2,491.1	2,489.4	5.5	4.6	134.75	42.2	-135.8	177.8	168.2	9.52	18.670		
2,600.0	2,590.9	2,590.8	2,588.9	5.8	4.8	135.67	43.8	-139.5	186.1	176.2	9.90	18.800		
2,700.0	2,690.4	2,690.4	2,688.4	6.0	5.0	136.52	45.5	-143.2	194.5	184.2	10.28	18.926		
2,800.0	2,790.0	2,790.0	2,788.0	6.3	5.2	137.29	47.1	-146.9	202.9	192.3	10.65	19.047		
2,900.0	2,889.5	2,889.6	2,887.5	6.5	5.4	138.01	48.8	-150.6	211.4	200.4	11.03	19.164		
3,000.0	2,989.1	2,989.2	2,987.0	6.7	5.5	138.66	50.4	-154.3	219.9	208.5	11.41	19.275		
3,100.0	3,088.6	3,088.8	3,086.5	7.0	5.7	139.27	52.1	-158.0	228.4	216.6	11.78	19.382		
3,200.0	3,188.2	3,188.4	3,186.1	7.2	5.9	139.84	53.7	-161.7	236.9	224.8	12.16	19.485		
3,300.0	3,287.7	3,288.0	3,285.6	7.4	6.1	140.36	55.4	-165.4	245.5	233.0	12.54	19.583		
3,400.0	3,387.3	3,387.6	3,385.1	7.7	6.3	140.85	57.0	-169.1	254.1	241.2	12.91	19.677		
3,500.0	3,486.8	3,487.2	3,484.6	7.9	6.5	141.31	58.6	-172.8	262.7	249.4	13.29	19.767		
3,600.0	3,586.4	3,586.8	3,584.2	8.2	6.7	141.74	60.3	-176.5	271.3	257.6	13.67	19.854		
3,700.0	3,685.9	3,686.4	3,683.7	8.4	6.9	142.14	61.9	-180.2	279.9	265.9	14.04	19.937		
3,800.0	3,785.5	3,786.1	3,783.2	8.6	7.0	142.52	63.6	-183.9	288.6	274.2	14.42	20.016		
3,900.0	3,885.1	3,885.7	3,882.7	8.9	7.2	142.88	65.2	-187.6	297.2	282.4	14.79	20.093		
4,000.0	3,984.6	3,985.3	3,982.3	9.1	7.4	143.21	66.9	-191.3	305.9	290.7	15.17	20.166		
4,100.0	4,084.2	4,084.9	4,081.8	9.4	7.6	143.53	68.5	-195.0	314.6	299.0	15.54	20.237		
4,200.0	4,183.7	4,184.5	4,181.3	9.6	7.8	143.83	70.2	-198.7	323.3	307.3	15.92	20.305		
4,300.0	4,283.3	4,284.1	4,280.8	9.8	8.0	144.12	71.8	-202.4	332.0	315.7	16.30	20.370		
4,400.0	4,382.8	4,383.7	4,380.4	10.1	8.2	144.39	73.4	-206.1	340.7	324.0	16.67	20.433		
4,500.0	4,482.4	4,483.3	4,479.9	10.3	8.4	144.65	75.1	-209.8	349.4	332.3	17.05	20.493		
4,600.0	4,581.9	4,582.9	4,579.4	10.6	8.5	144.89	76.7	-213.5	358.1	340.7	17.42	20.551		
4,700.0	4,681.5	4,682.5	4,678.9	10.8	8.7	145.12	78.4	-217.2	366.8	349.0	17.80	20.608		
4,800.0	4,781.0	4,782.1	4,778.5	11.0	8.9	145.35	80.0	-220.9	375.5	357.3	18.17	20.662		
4,900.0	4,880.6	4,881.7	4,878.0	11.3	9.1	145.56	81.7	-224.6	384.3	365.7	18.55	20.714		
5,000.0	4,980.1	4,981.4	4,977.5	11.5	9.3	145.76	83.3	-228.3	393.0	374.1	18.93	20.765		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4B-32H-O268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,079.7	5,081.0	5,077.1	11.8	9.5	145.95	85.0	-232.0	401.7	382.4	19.30	20.813		
5,200.0	5,179.2	5,180.6	5,176.6	12.0	9.7	146.14	86.6	-235.7	410.5	390.8	19.68	20.860		
5,300.0	5,278.8	5,280.2	5,276.1	12.3	9.9	146.32	88.3	-239.4	419.2	399.2	20.05	20.906		
5,400.0	5,378.3	5,379.8	5,375.6	12.5	10.0	146.49	89.9	-243.1	428.0	407.6	20.43	20.950		
5,500.0	5,477.9	5,479.4	5,475.2	12.7	10.2	146.65	91.5	-246.8	436.7	415.9	20.80	20.993		
5,600.0	5,577.4	5,579.0	5,574.7	13.0	10.4	146.81	93.2	-250.5	445.5	424.3	21.18	21.034		
5,700.0	5,677.0	5,678.6	5,674.2	13.2	10.6	146.96	94.8	-254.2	454.3	432.7	21.56	21.074		
5,800.0	5,776.5	5,778.2	5,773.7	13.5	10.8	147.10	96.5	-257.9	463.0	441.1	21.93	21.113		
5,900.0	5,876.1	5,877.8	5,873.3	13.7	11.0	147.24	98.1	-261.6	471.8	449.5	22.31	21.151		
6,000.0	5,975.7	5,977.4	5,972.8	13.9	11.2	147.38	99.8	-265.3	480.6	457.9	22.68	21.187		
6,100.0	6,075.2	6,077.0	6,072.3	14.2	11.4	147.51	101.4	-269.0	489.4	466.3	23.06	21.223		
6,200.0	6,174.8	6,176.7	6,171.8	14.4	11.5	147.63	103.1	-272.7	498.1	474.7	23.43	21.257		
7,300.0	7,269.1	7,940.3	7,702.5	16.8	16.0	112.13	-350.1	-321.3	460.3	429.7	30.62	15.035		
7,400.0	7,363.8	7,908.5	7,695.8	16.7	15.8	116.87	-319.0	-321.6	369.1	338.2	30.86	11.959		
7,500.0	7,451.8	7,866.0	7,684.3	16.6	15.4	116.42	-278.1	-321.9	284.4	254.5	29.98	9.487		
7,600.0	7,530.3	7,820.1	7,668.4	16.4	15.1	111.12	-235.1	-322.0	212.6	183.7	28.90	7.357		
7,700.0	7,597.0	7,772.8	7,648.6	16.2	14.8	100.68	-192.1	-322.0	166.6	138.5	28.05	5.939		
7,756.5	7,628.6	7,745.7	7,635.6	16.1	14.7	92.52	-168.3	-322.0	159.0	131.3	27.66	5.746 SF		
7,800.0	7,649.8	7,724.7	7,624.8	16.1	14.6	85.37	-150.3	-321.9	163.3	136.0	27.27	5.988		
7,900.0	7,687.1	7,676.1	7,597.3	16.2	14.4	67.95	-110.3	-321.6	199.3	173.5	25.78	7.730		
8,000.0	7,707.8	7,627.2	7,566.4	16.4	14.2	52.59	-72.5	-321.1	253.6	230.0	23.51	10.783		
8,100.0	7,712.0	7,578.6	7,532.5	16.8	14.0	42.59	-37.6	-320.5	313.0	291.2	21.79	14.366		
8,200.0	7,712.0	7,535.7	7,500.3	17.3	13.9	38.08	-9.4	-319.8	379.4	358.1	21.28	17.829		
8,300.0	7,712.0	7,500.0	7,471.9	18.0	13.9	34.76	12.3	-319.1	452.7	431.6	21.07	21.489		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4C-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	1.0	1.0	0.0	0.0	-89.69	0.3	-50.0	50.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.69	0.3	-50.0	50.0	49.7	0.30	167.531		
200.0	200.0	201.0	201.0	0.3	0.3	-89.69	0.3	-50.0	50.0	49.4	0.65	77.218		
300.0	300.0	301.0	301.0	0.5	0.5	46.00	0.3	-50.0	49.4	48.4	1.00	49.538		
400.0	400.0	401.0	401.0	0.7	0.7	48.28	0.3	-50.0	47.6	46.3	1.35	35.296		
500.0	499.9	500.9	500.9	0.9	0.8	52.46	0.3	-50.0	44.8	43.1	1.71	26.268		
600.0	599.7	601.2	601.2	1.1	1.0	60.11	0.7	-49.2	40.7	38.7	2.08	19.614		
700.0	699.4	700.9	700.9	1.3	1.2	73.83	1.9	-47.1	36.1	33.6	2.47	14.590		
800.0	798.9	800.2	800.1	1.5	1.4	93.17	3.3	-44.6	33.9	31.0	2.88	11.776		
801.8	800.7	802.0	801.9	1.5	1.4	93.55	3.3	-44.6	33.9	31.0	2.89	11.746 CC, ES		
900.0	898.5	899.5	899.4	1.7	1.6	112.82	4.7	-42.2	36.0	32.7	3.26	11.033 SF		
1,000.0	998.0	998.7	998.6	2.0	1.7	128.76	6.1	-39.8	41.6	38.0	3.60	11.562		
1,100.0	1,097.6	1,098.0	1,097.8	2.2	1.9	140.27	7.4	-37.3	49.7	45.8	3.92	12.661		
1,200.0	1,197.1	1,197.2	1,197.0	2.4	2.1	148.35	8.8	-34.9	59.2	54.9	4.25	13.930		
1,300.0	1,296.7	1,296.5	1,296.2	2.7	2.3	154.14	10.2	-32.5	69.5	64.9	4.57	15.191		
1,400.0	1,396.2	1,395.8	1,395.4	2.9	2.4	158.40	11.5	-30.0	80.3	75.4	4.90	16.376		
1,500.0	1,495.8	1,495.0	1,494.7	3.1	2.6	161.64	12.9	-27.6	91.5	86.3	5.24	17.463		
1,600.0	1,595.4	1,594.3	1,593.9	3.4	2.8	164.16	14.3	-25.2	102.9	97.3	5.58	18.451		
1,700.0	1,694.9	1,693.5	1,693.1	3.6	3.0	166.19	15.7	-22.7	114.5	108.5	5.92	19.347		
1,800.0	1,794.5	1,792.8	1,792.3	3.9	3.2	167.83	17.0	-20.3	126.1	119.9	6.26	20.159		
1,900.0	1,894.0	1,892.0	1,891.5	4.1	3.3	169.20	18.4	-17.9	137.9	131.3	6.60	20.896		
2,000.0	1,993.6	1,991.3	1,990.7	4.3	3.5	170.36	19.8	-15.4	149.7	142.8	6.94	21.568		
2,100.0	2,093.1	2,090.5	2,090.0	4.6	3.7	171.34	21.2	-13.0	161.6	154.3	7.29	22.181		
2,200.0	2,192.7	2,189.8	2,189.2	4.8	3.9	172.19	22.5	-10.6	173.5	165.9	7.63	22.742		
2,300.0	2,292.2	2,289.1	2,288.4	5.1	4.1	172.93	23.9	-8.1	185.5	177.5	7.97	23.258		
2,400.0	2,391.8	2,388.3	2,387.6	5.3	4.2	173.58	25.3	-5.7	197.5	189.1	8.32	23.733		
2,500.0	2,491.3	2,487.6	2,486.8	5.5	4.4	174.16	26.7	-3.3	209.5	200.8	8.66	24.172		
2,600.0	2,590.9	2,586.8	2,586.0	5.8	4.6	174.67	28.0	-0.8	221.5	212.5	9.01	24.579		
2,700.0	2,690.4	2,686.1	2,685.3	6.0	4.8	175.13	29.4	1.6	233.5	224.1	9.36	24.957		
2,800.0	2,790.0	2,785.3	2,784.5	6.3	5.0	175.55	30.8	4.0	245.6	235.9	9.70	25.309		
2,900.0	2,889.5	2,884.6	2,883.7	6.5	5.1	175.92	32.1	6.5	257.6	247.6	10.05	25.637		
3,000.0	2,989.1	2,983.9	2,982.9	6.7	5.3	176.27	33.5	8.9	269.7	259.3	10.39	25.944		
3,100.0	3,088.6	3,083.1	3,082.1	7.0	5.5	176.58	34.9	11.3	281.8	271.0	10.74	26.232		
3,200.0	3,188.2	3,182.4	3,181.4	7.2	5.7	176.87	36.3	13.8	293.8	282.8	11.09	26.502		
3,300.0	3,287.7	3,281.6	3,280.6	7.4	5.9	177.13	37.6	16.2	305.9	294.5	11.43	26.756		
3,400.0	3,387.3	3,380.9	3,379.8	7.7	6.0	177.38	39.0	18.6	318.0	306.3	11.78	26.996		
3,500.0	3,486.8	3,480.1	3,479.0	7.9	6.2	177.60	40.4	21.1	330.1	318.0	12.13	27.222		
3,600.0	3,586.4	3,579.4	3,578.2	8.2	6.4	177.82	41.8	23.5	342.3	329.8	12.47	27.436		
3,700.0	3,685.9	3,678.7	3,677.4	8.4	6.6	178.01	43.1	25.9	354.4	341.5	12.82	27.638		
3,800.0	3,785.5	3,777.9	3,776.7	8.6	6.8	178.20	44.5	28.4	366.5	353.3	13.17	27.830		
3,900.0	3,885.1	3,877.2	3,875.9	8.9	6.9	178.37	45.9	30.8	378.6	365.1	13.52	28.012		
4,000.0	3,984.6	3,976.4	3,975.1	9.1	7.1	178.53	47.3	33.2	390.7	376.9	13.86	28.186		
4,100.0	4,084.2	4,075.7	4,074.3	9.4	7.3	178.68	48.6	35.7	402.9	388.6	14.21	28.350		
4,200.0	4,183.7	4,174.9	4,173.5	9.6	7.5	178.82	50.0	38.1	415.0	400.4	14.56	28.508		
4,300.0	4,283.3	4,274.2	4,272.7	9.8	7.7	178.96	51.4	40.5	427.1	412.2	14.90	28.658		
4,400.0	4,382.8	4,373.4	4,372.0	10.1	7.8	179.08	52.8	43.0	439.2	424.0	15.25	28.801		
4,500.0	4,482.4	4,472.7	4,471.2	10.3	8.0	179.20	54.1	45.4	451.4	435.8	15.60	28.938		
4,600.0	4,581.9	4,572.0	4,570.4	10.6	8.2	179.32	55.5	47.8	463.5	447.6	15.95	29.069		
4,700.0	4,681.5	4,671.2	4,669.6	10.8	8.4	179.43	56.9	50.2	475.7	459.4	16.29	29.194		
4,800.0	4,781.0	4,770.5	4,768.8	11.0	8.6	179.53	58.2	52.7	487.8	471.2	16.64	29.315		
4,900.0	4,880.6	4,869.7	4,868.0	11.3	8.7	179.63	59.6	55.1	499.9	483.0	16.99	29.430		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4D-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-82.10	6.2	-45.0	45.4					
100.0	100.0	101.0	101.0	0.1	0.2	-82.10	6.2	-45.0	45.4	0.30	152.113			
200.0	200.0	201.0	201.0	0.3	0.3	-82.10	6.2	-45.0	45.4	0.65	70.111			
300.0	300.0	301.0	301.0	0.5	0.5	53.76	6.2	-45.0	44.9	1.00	45.005			
400.0	400.0	401.0	401.0	0.7	0.7	56.56	6.2	-45.0	43.4	1.35	32.139			
500.0	499.9	500.9	500.9	0.9	0.8	61.65	6.2	-45.0	41.1	1.71	24.066			
600.0	599.7	601.2	601.2	1.1	1.0	70.55	6.5	-44.1	37.9	2.08	18.197			
700.0	699.4	701.1	701.1	1.3	1.2	85.81	7.1	-41.5	34.5	2.48	13.899			
769.5	768.6	770.2	770.1	1.4	1.3	100.51	7.7	-38.8	33.4	2.76	12.122 CC, ES			
800.0	798.9	800.5	800.3	1.5	1.4	107.97	8.1	-37.3	33.7	2.87	11.739 SF			
900.0	898.5	899.4	899.0	1.7	1.6	130.66	9.5	-31.4	38.3	3.23	11.863			
1,000.0	998.0	998.0	997.4	2.0	1.8	148.11	11.2	-24.3	47.9	3.55	13.510			
1,100.0	1,097.6	1,096.7	1,095.8	2.2	2.0	159.19	13.0	-17.1	60.5	3.87	15.632			
1,200.0	1,197.1	1,195.3	1,194.2	2.4	2.2	166.33	14.7	-9.9	74.5	4.20	17.736			
1,300.0	1,296.7	1,294.0	1,292.6	2.7	2.4	171.16	16.5	-2.7	89.3	4.54	19.672			
1,400.0	1,396.2	1,392.7	1,390.9	2.9	2.6	174.61	18.2	4.5	104.5	4.88	21.411			
1,500.0	1,495.8	1,491.3	1,489.3	3.1	2.8	177.18	20.0	11.7	120.0	5.23	22.961			
1,600.0	1,595.4	1,590.0	1,587.7	3.4	3.0	179.15	21.7	18.9	135.7	5.58	24.343			
1,700.0	1,694.9	1,688.6	1,686.1	3.6	3.2	-179.28	23.5	26.1	151.6	5.93	25.577			
1,800.0	1,794.5	1,787.3	1,784.5	3.9	3.4	-178.01	25.2	33.4	167.5	6.28	26.685			
1,900.0	1,894.0	1,886.0	1,882.9	4.1	3.6	-176.96	26.9	40.6	183.5	6.63	27.682			
2,000.0	1,993.6	1,984.6	1,981.2	4.3	3.8	-176.08	28.7	47.8	199.5	6.98	28.585			
2,100.0	2,093.1	2,083.3	2,079.6	4.6	4.1	-175.33	30.4	55.0	215.6	7.33	29.404			
2,200.0	2,192.7	2,182.0	2,178.0	4.8	4.3	-174.68	32.2	62.2	231.7	7.68	30.151			
2,300.0	2,292.2	2,280.6	2,276.4	5.1	4.5	-174.12	33.9	69.4	247.8	8.04	30.835			
2,400.0	2,391.8	2,379.3	2,374.8	5.3	4.7	-173.63	35.7	76.6	263.9	8.39	31.463			
2,500.0	2,491.3	2,478.0	2,473.2	5.5	4.9	-173.19	37.4	83.8	280.1	8.74	32.042			
2,600.0	2,590.9	2,576.6	2,571.6	5.8	5.1	-172.80	39.2	91.0	296.3	9.09	32.577			
2,700.0	2,690.4	2,675.3	2,669.9	6.0	5.3	-172.46	40.9	98.2	312.5	9.45	33.072			
2,800.0	2,790.0	2,773.9	2,768.3	6.3	5.6	-172.14	42.6	105.4	328.7	9.80	33.533			
2,900.0	2,889.5	2,872.6	2,866.7	6.5	5.8	-171.86	44.4	112.7	344.9	10.15	33.962			
3,000.0	2,989.1	2,971.3	2,965.1	6.7	6.0	-171.60	46.1	119.9	361.1	10.51	34.363			
3,100.0	3,088.6	3,069.9	3,063.5	7.0	6.2	-171.36	47.9	127.1	377.3	10.86	34.738			
3,200.0	3,188.2	3,168.6	3,161.9	7.2	6.4	-171.14	49.6	134.3	393.5	11.22	35.090			
3,300.0	3,287.7	3,267.3	3,260.2	7.4	6.6	-170.94	51.4	141.5	409.8	11.57	35.420			
3,400.0	3,387.3	3,365.9	3,358.6	7.7	6.8	-170.76	53.1	148.7	426.0	11.92	35.731			
3,500.0	3,486.8	3,464.6	3,457.0	7.9	7.1	-170.59	54.9	155.9	442.3	12.28	36.025			
3,600.0	3,586.4	3,563.3	3,555.4	8.2	7.3	-170.43	56.6	163.1	458.5	12.63	36.302			
3,700.0	3,685.9	3,661.9	3,653.8	8.4	7.5	-170.28	58.3	170.3	474.8	12.98	36.564			
3,800.0	3,785.5	3,760.6	3,752.2	8.6	7.7	-170.14	60.1	177.5	491.0	13.34	36.813			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4E-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	1.0	1.0	0.0	0.0	-89.69	0.2	-30.0	30.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.69	0.2	-30.0	30.0	29.7	0.30	100.519		
200.0	200.0	201.0	201.0	0.3	0.3	-89.69	0.2	-30.0	30.0	29.4	0.65	46.331		
300.0	300.0	301.0	301.0	0.5	0.5	46.49	0.2	-30.0	29.4	28.4	1.00	29.480		
400.0	400.0	401.0	401.0	0.7	0.7	50.43	0.2	-30.0	27.7	26.3	1.35	20.499		
500.0	499.9	500.9	500.9	0.9	0.8	58.15	0.2	-30.0	25.1	23.4	1.71	14.694		
600.0	599.7	600.7	600.7	1.1	1.0	71.49	0.2	-30.0	22.5	20.4	2.08	10.793		
692.0	691.4	692.4	692.4	1.3	1.2	90.00	0.2	-30.0	21.3	18.9	2.44	8.717 CC		
700.0	699.4	700.4	700.4	1.3	1.2	91.85	0.2	-30.0	21.3	18.8	2.48	8.613 ES		
800.0	798.9	799.9	799.9	1.5	1.4	115.01	0.2	-30.0	23.5	20.7	2.85	8.257 SF		
900.0	898.5	899.5	899.5	1.7	1.5	132.24	0.2	-30.0	28.8	25.7	3.19	9.036		
1,000.0	998.0	998.8	998.8	2.0	1.7	144.72	0.3	-29.2	36.2	32.7	3.52	10.283		
1,100.0	1,097.6	1,097.9	1,097.8	2.2	1.9	154.67	0.7	-26.6	45.5	41.6	3.84	11.840		
1,200.0	1,197.1	1,196.5	1,196.4	2.4	2.1	162.52	1.5	-22.4	56.7	52.5	4.16	13.607		
1,300.0	1,296.7	1,294.7	1,294.4	2.7	2.3	168.74	2.5	-16.6	69.8	65.3	4.50	15.510		
1,400.0	1,396.2	1,392.4	1,391.8	2.9	2.4	173.72	3.8	-9.2	84.7	79.8	4.84	17.500		
1,500.0	1,495.8	1,489.5	1,488.5	3.1	2.6	177.78	5.3	-0.1	101.3	96.2	5.18	19.547		
1,600.0	1,595.4	1,586.3	1,584.7	3.4	2.9	-178.87	7.2	10.4	119.7	114.2	5.54	21.631		
1,700.0	1,694.9	1,684.3	1,682.0	3.6	3.1	-176.24	9.1	21.8	139.0	133.1	5.89	23.585		
1,800.0	1,794.5	1,782.3	1,779.3	3.9	3.3	-174.26	11.1	33.1	158.4	152.2	6.25	25.343		
1,900.0	1,894.0	1,880.2	1,876.5	4.1	3.6	-172.71	13.0	44.4	178.0	171.4	6.61	26.928		
2,000.0	1,993.6	1,978.2	1,973.8	4.3	3.8	-171.47	15.0	55.7	197.7	190.8	6.97	28.363		
2,100.0	2,093.1	2,076.1	2,071.1	4.6	4.0	-170.45	16.9	67.0	217.5	210.2	7.33	29.666		
2,200.0	2,192.7	2,174.1	2,168.4	4.8	4.3	-169.60	18.9	78.3	237.3	229.6	7.69	30.853		
2,300.0	2,292.2	2,272.1	2,265.7	5.1	4.5	-168.88	20.8	89.6	257.2	249.1	8.05	31.938		
2,400.0	2,391.8	2,370.0	2,363.0	5.3	4.8	-168.27	22.8	101.0	277.1	268.7	8.41	32.935		
2,500.0	2,491.3	2,468.0	2,460.3	5.5	5.0	-167.73	24.8	112.3	297.0	288.2	8.77	33.852		
2,600.0	2,590.9	2,565.9	2,557.5	5.8	5.3	-167.27	26.7	123.6	316.9	307.8	9.13	34.700		
2,700.0	2,690.4	2,663.9	2,654.8	6.0	5.5	-166.86	28.7	134.9	336.9	327.4	9.49	35.484		
2,800.0	2,790.0	2,761.9	2,752.1	6.3	5.8	-166.49	30.6	146.2	356.9	347.0	9.86	36.213		
2,900.0	2,889.5	2,859.8	2,849.4	6.5	6.0	-166.17	32.6	157.5	376.9	366.7	10.22	36.892		
3,000.0	2,989.1	2,957.8	2,946.7	6.7	6.3	-165.88	34.5	168.9	396.9	386.3	10.58	37.525		
3,100.0	3,088.6	3,055.7	3,044.0	7.0	6.6	-165.61	36.5	180.2	416.9	406.0	10.94	38.118		
3,200.0	3,188.2	3,153.7	3,141.2	7.2	6.8	-165.37	38.5	191.5	436.9	425.6	11.30	38.673		
3,300.0	3,287.7	3,251.7	3,238.5	7.4	7.1	-165.15	40.4	202.8	456.9	445.3	11.66	39.194		
3,400.0	3,387.3	3,349.6	3,335.8	7.7	7.3	-164.95	42.4	214.1	477.0	464.9	12.02	39.685		
3,500.0	3,486.8	3,447.6	3,433.1	7.9	7.6	-164.77	44.3	225.4	497.0	484.6	12.38	40.148		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4F-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-76.20	6.1	-25.0	25.7					
100.0	100.0	101.0	101.0	0.1	0.2	-76.20	6.1	-25.0	25.7	25.4	0.30	86.144		
200.0	200.0	201.0	201.0	0.3	0.3	-76.20	6.1	-25.0	25.7	25.1	0.65	39.705		
300.0	300.0	301.0	301.0	0.5	0.5	60.46	6.1	-25.0	25.3	24.3	1.00	25.338		
400.0	400.0	401.0	401.0	0.7	0.7	65.90	6.1	-25.0	24.1	22.7	1.35	17.833		
500.0	499.9	500.9	500.9	0.9	0.8	76.03	6.1	-25.0	22.7	20.9	1.71	13.228		
581.8	581.5	582.6	582.6	1.0	1.0	91.50	6.9	-24.1	21.9	19.9	2.02	10.831 CC, ES		
600.0	599.7	600.7	600.7	1.1	1.0	96.23	7.3	-23.6	22.0	19.9	2.09	10.513 SF		
700.0	699.4	699.6	699.4	1.3	1.2	125.51	10.6	-19.6	26.4	23.9	2.46	10.736		
800.0	798.9	797.2	796.7	1.5	1.4	147.69	16.0	-13.2	39.2	36.4	2.79	14.047		
900.0	898.5	893.5	892.3	1.7	1.6	159.72	23.5	-4.3	58.0	54.9	3.12	18.617		
1,000.0	998.0	990.9	988.8	2.0	1.9	166.81	31.7	6.6	79.7	76.3	3.45	23.105		
1,100.0	1,097.6	1,088.4	1,085.2	2.2	2.2	171.78	38.7	18.7	101.9	98.1	3.79	26.877		
1,200.0	1,197.1	1,185.8	1,181.5	2.4	2.4	175.74	44.6	31.9	124.4	120.2	4.14	30.078		
1,300.0	1,296.7	1,282.9	1,277.5	2.7	2.7	179.13	49.2	46.2	147.2	142.7	4.48	32.835		
1,400.0	1,396.2	1,379.8	1,373.0	2.9	3.0	-177.83	52.7	61.6	170.5	165.6	4.84	35.244		
1,500.0	1,495.8	1,476.5	1,468.3	3.1	3.3	-175.08	55.1	78.1	194.2	189.0	5.19	37.399		
1,600.0	1,595.4	1,573.2	1,563.6	3.4	3.7	-172.85	57.3	94.7	218.3	212.7	5.55	39.324		
1,700.0	1,694.9	1,670.0	1,658.9	3.6	4.0	-171.06	59.5	111.3	242.6	236.7	5.91	41.048		
1,800.0	1,794.5	1,766.7	1,754.1	3.9	4.3	-169.61	61.7	127.9	267.1	260.9	6.27	42.596		
1,900.0	1,894.0	1,863.5	1,849.4	4.1	4.6	-168.39	64.0	144.5	291.8	285.2	6.63	43.990		
2,000.0	1,993.6	1,960.2	1,944.7	4.3	4.9	-167.37	66.2	161.2	316.6	309.6	7.00	45.250		
2,100.0	2,093.1	2,056.9	2,040.0	4.6	5.3	-166.49	68.4	177.8	341.4	334.0	7.36	46.395		
2,200.0	2,192.7	2,153.7	2,135.2	4.8	5.6	-165.73	70.6	194.4	366.3	358.6	7.72	47.437		
2,300.0	2,292.2	2,250.4	2,230.5	5.1	5.9	-165.07	72.8	211.0	391.2	383.2	8.09	48.391		
2,400.0	2,391.8	2,347.2	2,325.8	5.3	6.3	-164.49	75.0	227.7	416.2	407.8	8.45	49.266		
2,500.0	2,491.3	2,443.9	2,421.1	5.5	6.6	-163.97	77.3	244.3	441.3	432.5	8.81	50.072		
2,600.0	2,590.9	2,540.7	2,516.4	5.8	6.9	-163.51	79.5	260.9	466.3	457.2	9.18	50.816		
2,700.0	2,690.4	2,637.4	2,611.6	6.0	7.3	-163.10	81.7	277.5	491.4	481.9	9.54	51.505		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4G-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.69	0.1	-20.0	20.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.69	0.1	-20.0	20.0	19.7	0.30	67.013		
200.0	200.0	201.0	201.0	0.3	0.3	-89.69	0.1	-20.0	20.0	19.4	0.65	30.887		
300.0	300.0	301.0	301.0	0.5	0.5	47.11	0.1	-20.0	19.4	18.4	1.00	19.454		
400.0	400.0	401.0	401.0	0.7	0.7	53.33	0.1	-20.0	17.7	16.4	1.35	13.130		
500.0	499.9	500.9	500.9	0.9	0.8	66.38	0.1	-20.0	15.5	13.8	1.71	9.068		
600.0	599.7	600.7	600.7	1.1	1.0	89.53	0.1	-20.0	14.2	12.1	2.09	6.806		
601.7	601.4	602.4	602.4	1.1	1.0	90.00	0.1	-20.0	14.2	12.1	2.09	6.785 CC, ES		
700.0	699.4	700.4	700.4	1.3	1.2	118.45	0.1	-20.0	16.2	13.7	2.46	6.584 SF		
800.0	798.9	799.9	799.9	1.5	1.4	141.14	0.1	-19.6	22.2	19.4	2.79	7.954		
900.0	898.5	899.0	898.9	1.7	1.5	158.53	0.0	-16.1	31.3	28.2	3.11	10.046		
1,000.0	998.0	997.2	996.9	2.0	1.7	171.47	-0.3	-9.3	43.7	40.3	3.45	12.690		
1,100.0	1,097.6	1,094.4	1,093.6	2.2	1.9	-179.12	-0.6	0.7	59.7	55.9	3.80	15.715		
1,200.0	1,197.1	1,191.0	1,189.3	2.4	2.2	-172.22	-1.1	13.7	79.0	74.9	4.17	18.964		
1,300.0	1,296.7	1,287.5	1,284.6	2.7	2.4	-167.24	-2.0	28.5	100.3	95.8	4.55	22.075		
1,400.0	1,396.2	1,383.3	1,379.0	2.9	2.7	-163.47	-3.4	44.8	123.3	118.3	4.93	25.005		
1,500.0	1,495.8	1,478.4	1,472.4	3.1	3.0	-160.45	-5.3	62.4	147.7	142.4	5.32	27.777		
1,600.0	1,595.4	1,572.7	1,564.8	3.4	3.4	-157.94	-7.6	81.3	173.7	168.0	5.71	30.417		
1,700.0	1,694.9	1,666.3	1,656.1	3.6	3.7	-155.80	-10.4	101.5	201.1	195.0	6.11	32.946		
1,800.0	1,794.5	1,759.0	1,746.4	3.9	4.1	-153.94	-13.6	122.9	230.0	223.5	6.50	35.391		
1,900.0	1,894.0	1,854.3	1,838.8	4.1	4.5	-152.36	-17.2	145.6	259.7	252.8	6.90	37.642		
2,000.0	1,993.6	1,949.6	1,931.3	4.3	4.9	-151.09	-20.7	168.3	289.5	282.2	7.30	39.674		
2,100.0	2,093.1	2,044.9	2,023.7	4.6	5.3	-150.07	-24.2	191.0	319.5	311.8	7.70	41.513		
2,200.0	2,192.7	2,140.1	2,116.2	4.8	5.7	-149.22	-27.7	213.7	349.5	341.4	8.09	43.185		
2,300.0	2,292.2	2,235.4	2,208.7	5.1	6.2	-148.50	-31.2	236.4	379.5	371.1	8.49	44.711		
2,400.0	2,391.8	2,330.7	2,301.1	5.3	6.6	-147.89	-34.8	259.0	409.7	400.8	8.89	46.107		
2,500.0	2,491.3	2,426.0	2,393.6	5.5	7.0	-147.36	-38.3	281.7	439.8	430.5	9.28	47.390		
2,600.0	2,590.9	2,521.2	2,486.1	5.8	7.4	-146.90	-41.8	304.4	470.0	460.3	9.68	48.572		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4H-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-67.89	6.1	-15.0	16.2					
100.0	100.0	101.0	101.0	0.1	0.2	-67.89	6.1	-15.0	16.2	15.9	0.30	54.131		
200.0	200.0	201.0	201.0	0.3	0.3	-67.89	6.1	-15.0	16.2	15.5	0.65	24.950		
300.0	300.0	301.0	301.0	0.5	0.5	69.99	6.1	-15.0	15.8	14.8	1.00	15.877		
400.0	400.0	401.0	401.0	0.7	0.7	79.34	6.1	-15.0	15.1	13.8	1.35	11.203		
468.6	468.5	469.5	469.5	0.8	0.8	90.00	6.1	-15.0	14.9	13.3	1.60	9.300 CC		
500.0	499.9	500.9	500.9	0.9	0.8	95.97	6.1	-15.0	15.0	13.2	1.71	8.730 ES		
600.0	599.7	600.7	600.7	1.1	1.0	117.19	6.1	-15.0	16.7	14.7	2.08	8.054 SF		
700.0	699.4	700.4	700.4	1.3	1.2	136.08	6.1	-15.0	21.5	19.1	2.43	8.841		
800.0	798.9	799.8	799.8	1.5	1.4	150.55	6.1	-14.1	29.2	26.4	2.77	10.539		
900.0	898.5	898.9	898.8	1.7	1.5	161.05	6.3	-11.5	38.9	35.8	3.11	12.529		
1,000.0	998.0	997.6	997.5	2.0	1.7	168.82	6.5	-7.2	50.4	47.0	3.44	14.635		
1,100.0	1,097.6	1,095.9	1,095.6	2.2	1.9	174.80	6.8	-1.3	63.6	59.8	3.79	16.794		
1,200.0	1,197.1	1,193.8	1,193.2	2.4	2.1	179.54	7.1	6.3	78.5	74.4	4.14	18.973		
1,300.0	1,296.7	1,291.1	1,290.0	2.7	2.3	-176.60	7.6	15.5	95.1	90.6	4.50	21.156		
1,400.0	1,396.2	1,387.8	1,386.2	2.9	2.5	-173.41	8.1	26.2	113.4	108.5	4.86	23.337		
1,500.0	1,495.8	1,484.0	1,481.5	3.1	2.8	-170.72	8.7	38.5	133.3	128.0	5.22	25.511		
1,600.0	1,595.4	1,579.4	1,576.0	3.4	3.0	-168.42	9.4	52.3	154.8	149.2	5.59	27.676		
1,700.0	1,694.9	1,674.1	1,669.4	3.6	3.3	-166.43	10.2	67.5	177.9	171.9	5.96	29.833		
1,800.0	1,794.5	1,768.1	1,761.9	3.9	3.6	-164.70	11.0	84.2	202.6	196.2	6.33	31.980		
1,900.0	1,894.0	1,861.3	1,853.3	4.1	3.9	-163.17	11.9	102.2	228.8	222.1	6.71	34.118		
2,000.0	1,993.6	1,953.6	1,943.6	4.3	4.3	-161.82	12.9	121.5	256.6	249.6	7.08	36.248		
2,100.0	2,093.1	2,045.0	2,032.7	4.6	4.6	-160.62	13.9	142.0	286.0	278.5	7.45	38.370		
2,200.0	2,192.7	2,135.6	2,120.6	4.8	5.0	-159.54	15.0	163.7	316.8	309.0	7.83	40.483		
2,300.0	2,292.2	2,225.2	2,207.2	5.1	5.4	-158.56	16.1	186.6	349.2	341.0	8.20	42.589		
2,400.0	2,391.8	2,313.8	2,292.5	5.3	5.9	-157.68	17.3	210.5	383.0	374.4	8.57	44.689		
2,500.0	2,491.3	2,404.7	2,379.7	5.5	6.3	-156.85	18.6	236.2	418.0	409.1	8.95	46.731		
2,600.0	2,590.9	2,498.1	2,469.3	5.8	6.8	-156.13	19.9	262.8	453.3	444.0	9.33	48.608		
2,700.0	2,690.4	2,591.5	2,558.8	6.0	7.3	-155.51	21.2	289.4	488.6	478.9	9.70	50.349		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4J-32H-O268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	40.11	6.0	5.0	7.8						
100.0	100.0	100.0	100.0	0.1	0.1	40.11	6.0	5.0	7.8	7.5	0.30	26.323			
200.0	200.0	200.0	200.0	0.3	0.3	40.11	6.0	5.0	7.8	7.2	0.65	12.094 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	175.57	6.0	5.0	8.7	7.7	0.99	8.726			
400.0	400.0	400.1	400.1	0.7	0.7	179.11	5.1	4.9	10.6	9.2	1.34	7.858			
500.0	499.9	500.2	500.2	0.9	0.9	-173.95	2.5	4.4	12.9	11.2	1.69	7.585			
600.0	599.7	600.4	600.2	1.1	1.0	-165.78	-1.8	3.7	15.8	13.8	2.05	7.702			
700.0	699.4	700.4	700.1	1.3	1.2	-157.79	-7.8	2.7	19.6	17.2	2.43	8.088			
800.0	798.9	800.5	799.8	1.5	1.4	-150.39	-15.6	1.4	24.2	21.4	2.83	8.556			
900.0	898.5	900.4	899.3	1.7	1.7	-143.21	-24.5	-0.2	28.8	25.5	3.27	8.824			
1,000.0	998.0	1,000.2	998.7	2.0	1.9	-137.96	-33.6	-1.7	33.7	30.0	3.71	9.083			
1,100.0	1,097.6	1,100.0	1,098.1	2.2	2.1	-134.06	-42.6	-3.3	38.8	34.6	4.16	9.321			
1,200.0	1,197.1	1,199.9	1,197.6	2.4	2.3	-131.08	-51.7	-4.8	44.0	39.4	4.62	9.533			
1,300.0	1,296.7	1,299.7	1,297.0	2.7	2.6	-128.73	-60.7	-6.4	49.4	44.3	5.08	9.720			
1,400.0	1,396.2	1,399.6	1,396.4	2.9	2.8	-126.84	-69.7	-7.9	54.8	49.2	5.54	9.886			
1,500.0	1,495.8	1,499.4	1,495.8	3.1	3.0	-125.30	-78.8	-9.5	60.2	54.2	6.00	10.032			
1,600.0	1,595.4	1,599.2	1,595.2	3.4	3.3	-124.01	-87.8	-11.0	65.7	59.2	6.46	10.161			
1,700.0	1,694.9	1,699.1	1,694.6	3.6	3.5	-122.92	-96.9	-12.5	71.2	64.3	6.93	10.277			
1,800.0	1,794.5	1,798.9	1,794.1	3.9	3.7	-121.99	-105.9	-14.1	76.7	69.3	7.39	10.380			
1,900.0	1,894.0	1,898.8	1,893.5	4.1	4.0	-121.18	-115.0	-15.6	82.3	74.4	7.86	10.473			
2,000.0	1,993.6	1,998.6	1,992.9	4.3	4.2	-120.47	-124.0	-17.2	87.8	79.5	8.32	10.557			
2,100.0	2,093.1	2,098.4	2,092.3	4.6	4.4	-119.85	-133.0	-18.7	93.4	84.6	8.79	10.633			
2,200.0	2,192.7	2,198.3	2,191.7	4.8	4.7	-119.30	-142.1	-20.3	99.0	89.7	9.25	10.702			
2,300.0	2,292.2	2,298.1	2,291.1	5.1	4.9	-118.81	-151.1	-21.8	104.6	94.9	9.72	10.765			
2,400.0	2,391.8	2,398.0	2,390.6	5.3	5.1	-118.36	-160.2	-23.4	110.2	100.0	10.18	10.823			
2,500.0	2,491.3	2,497.8	2,490.0	5.5	5.4	-117.97	-169.2	-24.9	115.8	105.1	10.65	10.877			
2,600.0	2,590.9	2,597.6	2,589.4	5.8	5.6	-117.60	-178.2	-26.5	121.4	110.3	11.11	10.926			
2,700.0	2,690.4	2,697.5	2,688.8	6.0	5.8	-117.27	-187.3	-28.0	127.0	115.4	11.58	10.972			
2,800.0	2,790.0	2,797.3	2,788.2	6.3	6.1	-116.97	-196.3	-29.5	132.6	120.6	12.04	11.014			
2,900.0	2,889.5	2,897.1	2,887.7	6.5	6.3	-116.69	-205.4	-31.1	138.3	125.7	12.51	11.054			
3,000.0	2,989.1	2,997.0	2,987.1	6.7	6.6	-116.43	-214.4	-32.6	143.9	130.9	12.97	11.090			
3,100.0	3,088.6	3,096.8	3,086.5	7.0	6.8	-116.20	-223.4	-34.2	149.5	136.1	13.44	11.125			
3,200.0	3,188.2	3,196.7	3,185.9	7.2	7.0	-115.98	-232.5	-35.7	155.1	141.2	13.90	11.157			
3,300.0	3,287.7	3,296.5	3,285.3	7.4	7.3	-115.77	-241.5	-37.3	160.8	146.4	14.37	11.187			
3,400.0	3,387.3	3,396.3	3,384.7	7.7	7.5	-115.58	-250.6	-38.8	166.4	151.6	14.84	11.216			
3,500.0	3,486.8	3,496.2	3,484.2	7.9	7.7	-115.40	-259.6	-40.4	172.0	156.7	15.30	11.243			
3,600.0	3,586.4	3,596.0	3,583.6	8.2	8.0	-115.24	-268.7	-41.9	177.7	161.9	15.77	11.268			
3,700.0	3,685.9	3,695.9	3,683.0	8.4	8.2	-115.08	-277.7	-43.5	183.3	167.1	16.23	11.292			
3,800.0	3,785.5	3,795.7	3,782.4	8.6	8.4	-114.93	-286.7	-45.0	189.0	172.3	16.70	11.315			
3,900.0	3,885.1	3,895.5	3,881.8	8.9	8.7	-114.80	-295.8	-46.5	194.6	177.4	17.17	11.336			
4,000.0	3,984.6	3,995.4	3,981.2	9.1	8.9	-114.66	-304.8	-48.1	200.2	182.6	17.63	11.357			
4,100.0	4,084.2	4,095.2	4,080.7	9.4	9.1	-114.54	-313.9	-49.6	205.9	187.8	18.10	11.376			
4,200.0	4,183.7	4,195.1	4,180.1	9.6	9.4	-114.42	-322.9	-51.2	211.5	193.0	18.56	11.394			
4,300.0	4,283.3	4,294.9	4,279.5	9.8	9.6	-114.31	-331.9	-52.7	217.2	198.1	19.03	11.412			
4,400.0	4,382.8	4,394.7	4,378.9	10.1	9.9	-114.21	-341.0	-54.3	222.8	203.3	19.50	11.429			
4,500.0	4,482.4	4,494.6	4,478.3	10.3	10.1	-114.11	-350.0	-55.8	228.5	208.5	19.96	11.445			
4,600.0	4,581.9	4,594.4	4,577.7	10.6	10.3	-114.01	-359.1	-57.4	234.1	213.7	20.43	11.460			
4,700.0	4,681.5	4,694.3	4,677.2	10.8	10.6	-113.92	-368.1	-58.9	239.8	218.9	20.89	11.475			
4,800.0	4,781.0	4,794.1	4,776.6	11.0	10.8	-113.83	-377.1	-60.5	245.4	224.0	21.36	11.489			
4,900.0	4,880.6	4,893.9	4,876.0	11.3	11.0	-113.75	-386.2	-62.0	251.1	229.2	21.83	11.502			
5,000.0	4,980.1	4,993.8	4,975.4	11.5	11.3	-113.67	-395.2	-63.5	256.7	234.4	22.29	11.515			
5,100.0	5,079.7	5,093.6	5,074.8	11.8	11.5	-113.60	-404.3	-65.1	262.4	239.6	22.76	11.528			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4J-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,179.2	5,193.5	5,174.3	12.0	11.7	-113.52	-413.3	-66.6	268.0	244.8	23.22	11.540		
5,300.0	5,278.8	5,293.3	5,273.7	12.3	12.0	-113.46	-422.4	-68.2	273.7	250.0	23.69	11.551		
5,400.0	5,378.3	5,393.1	5,373.1	12.5	12.2	-113.39	-431.4	-69.7	279.3	255.1	24.16	11.562		
5,500.0	5,477.9	5,493.0	5,472.5	12.7	12.5	-113.32	-440.4	-71.3	285.0	260.3	24.62	11.573		
5,600.0	5,577.4	5,592.8	5,571.9	13.0	12.7	-113.26	-449.5	-72.8	290.6	265.5	25.09	11.583		
5,700.0	5,677.0	5,692.7	5,671.3	13.2	12.9	-113.20	-458.5	-74.4	296.3	270.7	25.55	11.593		
5,800.0	5,776.5	5,792.5	5,770.8	13.5	13.2	-113.15	-467.6	-75.9	301.9	275.9	26.02	11.603		
5,900.0	5,876.1	5,892.3	5,870.2	13.7	13.4	-113.09	-476.6	-77.5	307.6	281.1	26.49	11.612		
6,000.0	5,975.7	5,992.2	5,969.6	13.9	13.6	-113.04	-485.6	-79.0	313.2	286.3	26.95	11.621		
6,100.0	6,075.2	6,092.0	6,069.0	14.2	13.9	-112.99	-494.7	-80.5	318.9	291.4	27.42	11.629		
6,200.0	6,174.8	6,191.9	6,168.4	14.4	14.1	-112.94	-503.7	-82.1	324.5	296.6	27.89	11.638		
6,300.0	6,274.3	6,291.7	6,267.8	14.7	14.3	-112.89	-512.8	-83.6	330.2	301.8	28.35	11.646		
6,400.0	6,373.9	6,391.5	6,367.3	14.9	14.6	-112.84	-521.8	-85.2	335.8	307.0	28.82	11.654		
6,500.0	6,473.4	6,491.4	6,466.7	15.1	14.8	-112.80	-530.8	-86.7	341.5	312.2	29.28	11.661		
6,600.0	6,573.0	6,591.2	6,566.1	15.4	15.1	-112.76	-539.9	-88.3	347.1	317.4	29.75	11.668		
6,700.0	6,672.5	6,691.1	6,665.5	15.6	15.3	-112.72	-548.9	-89.8	352.8	322.6	30.22	11.676		
6,800.0	6,772.1	6,790.9	6,764.9	15.9	15.5	-112.68	-558.0	-91.4	358.4	327.8	30.68	11.682		
6,900.0	6,871.6	6,910.4	6,884.2	16.1	15.7	-113.44	-563.2	-93.3	362.5	331.4	31.09	11.660		
7,000.0	6,971.2	7,036.2	7,008.2	16.3	15.6	-117.95	-543.4	-95.8	359.2	328.2	31.08	11.558		
7,100.0	7,070.7	7,145.6	7,110.2	16.6	15.3	-125.26	-504.6	-98.2	352.8	322.2	30.61	11.524		
7,183.7	7,154.2	7,224.6	7,178.3	16.7	15.0	157.11	-464.8	-100.1	350.3	320.4	29.93	11.703		
7,200.0	7,170.4	7,237.8	7,189.2	16.8	15.0	143.84	-457.2	-100.4	350.3	320.5	29.78	11.765		
7,300.0	7,269.1	7,322.2	7,254.0	16.8	14.6	100.76	-403.3	-102.4	355.6	326.9	28.74	12.376		
7,400.0	7,363.8	7,400.0	7,306.1	16.7	14.3	86.64	-345.7	-104.3	367.4	339.7	27.73	13.247		
7,500.0	7,451.8	7,476.2	7,349.2	16.6	14.0	77.15	-282.9	-106.2	383.6	356.7	26.85	14.287		
7,600.0	7,530.3	7,550.0	7,382.5	16.4	13.8	69.79	-217.2	-107.9	402.0	375.9	26.08	15.416		
7,700.0	7,597.0	7,618.1	7,405.6	16.2	13.6	64.10	-153.2	-109.4	420.9	395.5	25.43	16.553		
7,800.0	7,649.8	7,686.2	7,421.0	16.1	13.6	59.54	-86.9	-110.8	438.7	413.8	24.85	17.653		
7,900.0	7,687.1	7,750.0	7,428.1	16.2	13.7	56.11	-23.5	-112.1	454.1	429.7	24.41	18.602		
8,000.0	7,707.8	7,837.2	7,429.0	16.4	13.9	53.36	63.6	-113.6	465.3	441.0	24.27	19.173		
8,100.0	7,712.0	7,937.0	7,429.0	16.8	14.3	52.67	163.4	-115.3	466.7	441.9	24.80	18.819		
8,200.0	7,712.0	8,037.0	7,429.0	17.3	15.0	52.54	263.4	-117.1	465.3	439.5	25.86	17.994		
8,300.0	7,712.0	8,136.9	7,429.0	18.0	15.8	52.41	363.3	-118.8	463.9	436.8	27.16	17.081		
8,400.0	7,712.0	8,236.9	7,429.0	18.9	16.8	52.27	463.3	-120.6	462.6	433.9	28.67	16.135		
8,500.0	7,712.0	8,336.9	7,429.0	19.9	17.9	52.14	563.3	-122.3	461.2	430.8	30.35	15.197		
8,600.0	7,712.0	8,436.9	7,429.0	20.9	19.0	52.01	663.3	-124.1	459.8	427.6	32.17	14.293		
8,700.0	7,712.0	8,536.9	7,429.0	22.1	20.3	51.87	763.2	-125.8	458.4	424.3	34.11	13.440		
8,800.0	7,712.0	8,636.9	7,429.0	23.3	21.6	51.74	863.2	-127.6	457.1	420.9	36.14	12.645		
8,900.0	7,712.0	8,736.9	7,429.0	24.6	23.0	51.60	963.2	-129.3	455.7	417.4	38.26	11.910		
9,000.0	7,712.0	8,836.8	7,429.0	26.0	24.5	51.47	1,063.1	-131.0	454.3	413.9	40.44	11.235		
9,100.0	7,712.0	8,936.8	7,429.0	27.3	25.9	51.33	1,163.1	-132.8	453.0	410.3	42.67	10.616		
9,200.0	7,712.0	9,036.8	7,429.0	28.8	27.4	51.19	1,263.1	-134.5	451.6	406.6	44.94	10.049		
9,300.0	7,712.0	9,136.8	7,429.0	30.2	29.0	51.05	1,363.0	-136.3	450.2	403.0	47.25	9.529		
9,400.0	7,712.0	9,236.8	7,429.0	31.7	30.5	50.91	1,463.0	-138.0	448.9	399.3	49.58	9.053		
9,500.0	7,712.0	9,336.8	7,429.0	33.3	32.1	50.77	1,563.0	-139.8	447.5	395.6	51.94	8.616		
9,600.0	7,712.0	9,436.7	7,429.0	34.8	33.7	50.63	1,662.9	-141.5	446.2	391.9	54.31	8.215		
9,700.0	7,712.0	9,536.7	7,429.0	36.4	35.3	50.49	1,762.9	-143.3	444.8	388.1	56.70	7.845		
9,800.0	7,712.0	9,636.7	7,429.0	38.0	36.9	50.34	1,862.9	-145.0	443.5	384.4	59.09	7.505		
9,900.0	7,712.0	9,736.7	7,429.0	39.5	38.6	50.20	1,962.9	-146.7	442.1	380.6	61.50	7.189		
10,000.0	7,712.0	9,836.7	7,429.0	41.2	40.2	50.05	2,062.8	-148.5	440.8	376.9	63.91	6.897		
10,100.0	7,712.0	9,936.7	7,429.0	42.8	41.9	49.91	2,162.8	-150.2	439.5	373.1	66.32	6.626		
10,200.0	7,712.0	10,036.7	7,429.0	44.4	43.5	49.76	2,262.8	-152.0	438.1	369.4	68.73	6.374		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4J-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,712.0	10,136.6	7,429.0	46.0	45.2	49.61	2,362.7	-153.7	436.8	365.7	71.14	6.140		
10,400.0	7,712.0	10,236.6	7,429.0	47.7	46.9	49.46	2,462.7	-155.5	435.5	361.9	73.55	5.920		
10,500.0	7,712.0	10,336.6	7,429.0	49.3	48.6	49.31	2,562.7	-157.2	434.1	358.2	75.96	5.715		
10,600.0	7,712.0	10,436.6	7,429.0	51.0	50.3	49.16	2,662.6	-159.0	432.8	354.5	78.36	5.523		
10,700.0	7,712.0	10,536.6	7,429.0	52.7	51.9	49.01	2,762.6	-160.7	431.5	350.7	80.76	5.343		
10,800.0	7,712.0	10,636.6	7,429.0	54.3	53.6	48.86	2,862.6	-162.5	430.2	347.0	83.15	5.174		
10,900.0	7,712.0	10,736.5	7,429.0	56.0	55.3	48.71	2,962.6	-164.2	428.9	343.3	85.53	5.014		
11,000.0	7,712.0	10,836.5	7,429.0	57.7	57.0	48.55	3,062.5	-165.9	427.6	339.7	87.90	4.864		
11,100.0	7,712.0	10,936.5	7,429.0	59.4	58.7	48.40	3,162.5	-167.7	426.3	336.0	90.27	4.722		
11,200.0	7,712.0	11,036.5	7,429.0	61.1	60.5	48.24	3,262.5	-169.4	425.0	332.3	92.63	4.588		
11,300.0	7,712.0	11,136.5	7,429.0	62.8	62.2	48.08	3,362.4	-171.2	423.7	328.7	94.98	4.461		
11,400.0	7,712.0	11,236.5	7,429.0	64.5	63.9	47.92	3,462.4	-172.9	422.4	325.0	97.31	4.340		
11,500.0	7,712.0	11,336.5	7,429.0	66.2	65.6	47.77	3,562.4	-174.7	421.1	321.4	99.64	4.226		
11,600.0	7,712.0	11,436.4	7,429.0	67.9	67.3	47.61	3,662.3	-176.4	419.8	317.8	101.95	4.117		
11,700.0	7,712.0	11,536.4	7,429.0	69.6	69.0	47.44	3,762.3	-178.2	418.5	314.2	104.26	4.014		
11,800.0	7,712.0	11,636.4	7,429.0	71.3	70.7	47.28	3,862.3	-179.9	417.2	310.7	106.55	3.916		
11,900.0	7,712.0	11,736.4	7,429.0	73.0	72.5	47.12	3,962.2	-181.6	415.9	307.1	108.82	3.822		
12,000.0	7,712.0	11,836.4	7,429.0	74.7	74.2	46.95	4,062.2	-183.4	414.6	303.6	111.09	3.733		
12,100.0	7,712.0	11,936.4	7,429.0	76.4	75.9	46.79	4,162.2	-185.1	413.4	300.0	113.34	3.647		
12,200.0	7,712.0	12,036.4	7,429.0	78.1	77.6	46.62	4,262.2	-186.9	412.1	296.5	115.58	3.566		
12,216.2	7,712.0	12,047.3	7,429.0	78.4	77.8	46.61	4,273.1	-187.1	411.9	296.0	115.89	3.554		
12,220.5	7,712.0	12,047.3	7,429.0	78.5	77.8	46.61	4,273.1	-187.1	411.9	296.0	115.94	3.553 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4K-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.31	-0.1	10.0	10.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.31	-0.1	10.0	10.0	9.7	0.30	33.703		
200.0	200.0	200.0	200.0	0.3	0.3	90.31	-0.1	10.0	10.0	9.4	0.65	15.485 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-138.07	-0.1	10.0	10.6	9.6	1.00	10.684		
400.0	400.0	400.0	400.0	0.7	0.7	-145.97	-0.1	10.0	12.7	11.4	1.35	9.440 SF		
500.0	499.9	499.8	499.8	0.9	0.8	-151.49	-0.8	10.4	16.6	14.9	1.70	9.808		
600.0	599.7	599.6	599.5	1.1	1.0	-152.35	-3.1	11.6	22.5	20.5	2.05	10.962		
700.0	699.4	699.2	699.1	1.3	1.2	-151.10	-7.0	13.6	30.2	27.8	2.42	12.491		
800.0	798.9	798.6	798.3	1.5	1.4	-148.95	-12.4	16.4	39.6	36.8	2.80	14.129		
900.0	898.5	897.9	897.3	1.7	1.6	-145.80	-19.2	20.0	49.6	46.4	3.20	15.477		
1,000.0	998.0	997.1	996.0	2.0	1.8	-142.21	-27.6	24.3	60.2	56.6	3.62	16.625		
1,100.0	1,097.6	1,096.4	1,094.8	2.2	2.0	-139.35	-36.3	28.9	71.2	67.2	4.05	17.587		
1,200.0	1,197.1	1,195.7	1,193.7	2.4	2.3	-137.27	-45.1	33.4	82.3	77.8	4.48	18.380		
1,300.0	1,296.7	1,295.1	1,292.5	2.7	2.5	-135.68	-53.8	38.0	93.5	88.6	4.91	19.043		
1,400.0	1,396.2	1,394.4	1,391.4	2.9	2.7	-134.43	-62.6	42.5	104.7	99.4	5.34	19.603		
1,500.0	1,495.8	1,493.8	1,490.2	3.1	3.0	-133.42	-71.3	47.1	116.0	110.3	5.78	20.081		
1,600.0	1,595.4	1,593.1	1,589.1	3.4	3.2	-132.60	-80.1	51.6	127.3	121.1	6.21	20.494		
1,700.0	1,694.9	1,692.4	1,687.9	3.6	3.5	-131.90	-88.9	56.2	138.7	132.0	6.65	20.854		
1,800.0	1,794.5	1,791.8	1,786.8	3.9	3.7	-131.32	-97.6	60.7	150.0	143.0	7.09	21.170		
1,900.0	1,894.0	1,891.1	1,885.6	4.1	3.9	-130.81	-106.4	65.3	161.4	153.9	7.52	21.450		
2,000.0	1,993.6	1,990.5	1,984.5	4.3	4.2	-130.37	-115.1	69.8	172.8	164.8	7.96	21.700		
2,100.0	2,093.1	2,089.8	2,083.3	4.6	4.4	-129.99	-123.9	74.4	184.2	175.8	8.40	21.923		
2,200.0	2,192.7	2,189.2	2,182.2	4.8	4.7	-129.65	-132.6	78.9	195.6	186.7	8.84	22.125		
2,300.0	2,292.2	2,288.5	2,281.0	5.1	4.9	-129.35	-141.4	83.5	207.0	197.7	9.28	22.307		
2,400.0	2,391.8	2,387.8	2,379.9	5.3	5.1	-129.07	-150.1	88.0	218.4	208.7	9.72	22.474		
2,500.0	2,491.3	2,487.2	2,478.7	5.5	5.4	-128.83	-158.9	92.6	229.8	219.6	10.16	22.625		
2,600.0	2,590.9	2,586.5	2,577.6	5.8	5.6	-128.61	-167.7	97.1	241.2	230.6	10.60	22.765		
2,700.0	2,690.4	2,685.9	2,676.4	6.0	5.9	-128.41	-176.4	101.7	252.6	241.6	11.03	22.893		
2,800.0	2,790.0	2,785.2	2,775.3	6.3	6.1	-128.23	-185.2	106.2	264.0	252.6	11.47	23.011		
2,900.0	2,889.5	2,884.6	2,874.2	6.5	6.3	-128.06	-193.9	110.8	275.5	263.5	11.91	23.121		
3,000.0	2,989.1	2,983.9	2,973.0	6.7	6.6	-127.90	-202.7	115.3	286.9	274.5	12.35	23.223		
3,100.0	3,088.6	3,083.2	3,071.9	7.0	6.8	-127.76	-211.4	119.9	298.3	285.5	12.79	23.318		
3,200.0	3,188.2	3,182.6	3,170.7	7.2	7.1	-127.63	-220.2	124.4	309.7	296.5	13.23	23.406		
3,300.0	3,287.7	3,281.9	3,269.6	7.4	7.3	-127.50	-228.9	129.0	321.2	307.5	13.67	23.489		
3,400.0	3,387.3	3,381.3	3,368.4	7.7	7.6	-127.39	-237.7	133.5	332.6	318.5	14.11	23.567		
3,500.0	3,486.8	3,480.6	3,467.3	7.9	7.8	-127.28	-246.4	138.1	344.0	329.5	14.55	23.640		
3,600.0	3,586.4	3,580.0	3,566.1	8.2	8.0	-127.18	-255.2	142.6	355.5	340.5	14.99	23.708		
3,700.0	3,685.9	3,679.3	3,665.0	8.4	8.3	-127.09	-264.0	147.2	366.9	351.5	15.43	23.773		
3,800.0	3,785.5	3,778.6	3,763.8	8.6	8.5	-127.00	-272.7	151.7	378.3	362.5	15.87	23.834		
3,900.0	3,885.1	3,878.0	3,862.7	8.9	8.8	-126.92	-281.5	156.3	389.8	373.4	16.31	23.892		
4,000.0	3,984.6	3,977.3	3,961.5	9.1	9.0	-126.84	-290.2	160.8	401.2	384.4	16.75	23.947		
4,100.0	4,084.2	4,076.7	4,060.4	9.4	9.3	-126.77	-299.0	165.4	412.6	395.4	17.19	23.999		
4,200.0	4,183.7	4,176.0	4,159.2	9.6	9.5	-126.70	-307.7	169.9	424.1	406.4	17.63	24.048		
4,300.0	4,283.3	4,275.4	4,258.1	9.8	9.8	-126.63	-316.5	174.5	435.5	417.4	18.07	24.095		
4,400.0	4,382.8	4,374.7	4,356.9	10.1	10.0	-126.57	-325.2	179.0	446.9	428.4	18.52	24.140		
4,500.0	4,482.4	4,474.0	4,455.8	10.3	10.2	-126.51	-334.0	183.6	458.4	439.4	18.96	24.182		
4,600.0	4,581.9	4,573.4	4,554.6	10.6	10.5	-126.45	-342.7	188.1	469.8	450.4	19.40	24.223		
4,700.0	4,681.5	4,672.7	4,653.5	10.8	10.7	-126.40	-351.5	192.7	481.3	461.4	19.84	24.262		
4,800.0	4,781.0	4,772.1	4,752.3	11.0	11.0	-126.34	-360.3	197.2	492.7	472.4	20.28	24.299		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4L-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	68.51	5.9	15.0	16.2					
100.0	100.0	100.0	100.0	0.1	0.1	68.51	5.9	15.0	16.2	15.9	0.30	54.449		
200.0	200.0	200.0	200.0	0.3	0.3	68.51	5.9	15.0	16.2	15.5	0.65	25.017 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-157.70	5.9	15.0	17.0	16.0	0.99	17.047		
400.0	400.0	400.0	400.0	0.7	0.7	-160.63	5.9	15.0	19.4	18.1	1.34	14.438		
500.0	499.9	499.9	499.9	0.9	0.8	-164.13	5.9	15.0	23.6	21.9	1.69	13.919 SF		
600.0	599.7	599.6	599.6	1.1	1.0	-165.70	5.3	15.6	29.6	27.6	2.04	14.505		
700.0	699.4	699.2	699.1	1.3	1.2	-164.73	3.3	17.3	37.7	35.3	2.40	15.734		
800.0	798.9	798.5	798.4	1.5	1.4	-162.53	0.0	20.1	47.5	44.7	2.76	17.233		
900.0	898.5	897.7	897.4	1.7	1.6	-159.49	-4.5	24.0	58.0	54.8	3.13	18.514		
1,000.0	998.0	996.7	996.0	2.0	1.8	-156.03	-10.4	29.0	69.1	65.6	3.52	19.624		
1,100.0	1,097.6	1,095.3	1,094.3	2.2	2.0	-152.42	-17.5	35.2	81.1	77.2	3.93	20.636		
1,200.0	1,197.1	1,193.7	1,192.0	2.4	2.2	-148.81	-25.9	42.4	94.1	89.7	4.35	21.600		
1,300.0	1,296.7	1,292.4	1,289.9	2.7	2.5	-145.50	-35.2	50.4	107.9	103.1	4.79	22.535		
1,400.0	1,396.2	1,391.2	1,388.0	2.9	2.7	-142.92	-44.6	58.4	122.1	116.9	5.23	23.361		
1,500.0	1,495.8	1,490.1	1,486.1	3.1	3.0	-140.88	-54.0	66.5	136.5	130.8	5.66	24.089		
1,600.0	1,595.4	1,589.0	1,584.2	3.4	3.2	-139.23	-63.4	74.6	151.0	144.9	6.10	24.732		
1,700.0	1,694.9	1,687.8	1,682.3	3.6	3.5	-137.87	-72.8	82.6	165.6	159.0	6.54	25.304		
1,800.0	1,794.5	1,786.7	1,780.3	3.9	3.8	-136.73	-82.1	90.7	180.2	173.3	6.98	25.814		
1,900.0	1,894.0	1,885.5	1,878.4	4.1	4.0	-135.76	-91.5	98.7	195.0	187.5	7.42	26.271		
2,000.0	1,993.6	1,984.4	1,976.5	4.3	4.3	-134.93	-100.9	106.8	209.8	201.9	7.86	26.683		
2,100.0	2,093.1	2,083.3	2,074.6	4.6	4.6	-134.20	-110.3	114.9	224.6	216.3	8.30	27.056		
2,200.0	2,192.7	2,182.1	2,172.7	4.8	4.8	-133.57	-119.7	122.9	239.4	230.7	8.74	27.394		
2,300.0	2,292.2	2,281.0	2,270.7	5.1	5.1	-133.01	-129.1	131.0	254.3	245.1	9.18	27.703		
2,400.0	2,391.8	2,379.8	2,368.8	5.3	5.4	-132.51	-138.4	139.0	269.2	259.6	9.62	27.986		
2,500.0	2,491.3	2,478.7	2,466.9	5.5	5.6	-132.07	-147.8	147.1	284.1	274.1	10.06	28.246		
2,600.0	2,590.9	2,577.5	2,565.0	5.8	5.9	-131.67	-157.2	155.2	299.0	288.6	10.50	28.486		
2,700.0	2,690.4	2,676.4	2,663.1	6.0	6.2	-131.30	-166.6	163.2	314.0	303.1	10.94	28.708		
2,800.0	2,790.0	2,775.3	2,761.1	6.3	6.5	-130.97	-176.0	171.3	328.9	317.6	11.38	28.913		
2,900.0	2,889.5	2,874.1	2,859.2	6.5	6.7	-130.67	-185.4	179.4	343.9	332.1	11.82	29.104		
3,000.0	2,989.1	2,973.0	2,957.3	6.7	7.0	-130.40	-194.8	187.4	358.9	346.6	12.26	29.282		
3,100.0	3,088.6	3,071.8	3,055.4	7.0	7.3	-130.14	-204.1	195.5	373.9	361.2	12.70	29.449		
3,200.0	3,188.2	3,170.7	3,153.5	7.2	7.6	-129.91	-213.5	203.5	388.9	375.7	13.13	29.605		
3,300.0	3,287.7	3,269.6	3,251.6	7.4	7.8	-129.69	-222.9	211.6	403.8	390.3	13.57	29.751		
3,400.0	3,387.3	3,368.4	3,349.6	7.7	8.1	-129.49	-232.3	219.7	418.8	404.8	14.01	29.888		
3,500.0	3,486.8	3,467.3	3,447.7	7.9	8.4	-129.30	-241.7	227.7	433.9	419.4	14.45	30.017		
3,600.0	3,586.4	3,566.1	3,545.8	8.2	8.7	-129.13	-251.1	235.8	448.9	434.0	14.89	30.139		
3,700.0	3,685.9	3,665.0	3,643.9	8.4	8.9	-128.96	-260.4	243.8	463.9	448.5	15.33	30.254		
3,800.0	3,785.5	3,763.8	3,742.0	8.6	9.2	-128.81	-269.8	251.9	478.9	463.1	15.77	30.363		
3,900.0	3,885.1	3,862.7	3,840.0	8.9	9.5	-128.67	-279.2	260.0	493.9	477.7	16.21	30.467		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4M-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	84.13	3.8	36.7	36.9					
100.0	100.0	100.0	100.0	0.1	0.1	84.13	3.8	36.7	36.9	36.6	0.30	124.424		
200.0	200.0	200.0	200.0	0.3	0.3	84.13	3.8	36.7	36.9	36.3	0.65	57.168 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-141.74	3.8	36.7	37.6	36.6	1.00	37.783		
400.0	400.0	400.0	400.0	0.7	0.7	-144.06	3.8	36.7	39.7	38.3	1.35	29.492		
500.0	499.9	499.9	499.9	0.9	0.8	-147.43	3.8	36.7	43.3	41.6	1.70	25.504		
600.0	599.7	599.7	599.7	1.1	1.0	-151.29	3.8	36.7	48.6	46.5	2.05	23.683		
700.0	699.4	698.8	698.8	1.3	1.2	-154.39	3.3	37.4	56.0	53.6	2.40	23.326 SF		
800.0	798.9	797.8	797.7	1.5	1.4	-155.98	1.7	39.4	65.9	63.1	2.76	23.888		
900.0	898.5	896.5	896.4	1.7	1.5	-156.11	-0.9	42.8	76.8	73.6	3.12	24.615		
1,000.0	998.0	995.1	994.8	2.0	1.7	-155.27	-4.5	47.6	88.6	85.1	3.49	25.389		
1,100.0	1,097.6	1,093.3	1,092.7	2.2	1.9	-153.82	-9.1	53.6	101.3	97.5	3.87	26.188		
1,200.0	1,197.1	1,191.3	1,190.2	2.4	2.1	-152.00	-14.7	61.0	115.1	110.9	4.26	27.009		
1,300.0	1,296.7	1,288.8	1,287.2	2.7	2.4	-149.99	-21.2	69.7	130.0	125.4	4.67	27.858		
1,400.0	1,396.2	1,385.9	1,383.4	2.9	2.6	-147.88	-28.8	79.6	146.1	141.0	5.08	28.740		
1,500.0	1,495.8	1,482.5	1,479.0	3.1	2.9	-145.76	-37.3	90.7	163.5	158.0	5.51	29.665		
1,600.0	1,595.4	1,580.6	1,575.9	3.4	3.2	-143.81	-46.4	102.8	181.7	175.7	5.95	30.555		
1,700.0	1,694.9	1,678.8	1,672.9	3.6	3.4	-142.22	-55.5	114.8	200.0	193.6	6.38	31.349		
1,800.0	1,794.5	1,776.9	1,769.9	3.9	3.7	-140.89	-64.7	126.9	218.5	211.6	6.81	32.058		
1,900.0	1,894.0	1,875.1	1,866.9	4.1	4.0	-139.77	-73.8	138.9	237.0	229.8	7.25	32.697		
2,000.0	1,993.6	1,973.3	1,963.9	4.3	4.3	-138.81	-83.0	151.0	255.7	248.0	7.68	33.273		
2,100.0	2,093.1	2,071.4	2,060.9	4.6	4.6	-137.98	-92.1	163.0	274.3	266.2	8.12	33.795		
2,200.0	2,192.7	2,169.6	2,157.9	4.8	4.9	-137.26	-101.3	175.0	293.1	284.5	8.55	34.271		
2,300.0	2,292.2	2,267.8	2,254.9	5.1	5.2	-136.63	-110.4	187.1	311.9	302.9	8.99	34.706		
2,400.0	2,391.8	2,365.9	2,351.9	5.3	5.5	-136.06	-119.6	199.1	330.7	321.3	9.42	35.106		
2,500.0	2,491.3	2,464.1	2,448.9	5.5	5.8	-135.56	-128.7	211.2	349.5	339.7	9.85	35.473		
2,600.0	2,590.9	2,562.3	2,545.9	5.8	6.1	-135.11	-137.9	223.2	368.4	358.1	10.29	35.812		
2,700.0	2,690.4	2,660.4	2,642.9	6.0	6.5	-134.70	-147.0	235.3	387.3	376.5	10.72	36.126		
2,800.0	2,790.0	2,758.6	2,739.9	6.3	6.8	-134.33	-156.2	247.3	406.2	395.0	11.15	36.418		
2,900.0	2,889.5	2,856.8	2,836.9	6.5	7.1	-134.00	-165.3	259.4	425.1	413.5	11.59	36.689		
3,000.0	2,989.1	2,954.9	2,933.9	6.7	7.4	-133.69	-174.5	271.4	444.0	432.0	12.02	36.942		
3,100.0	3,088.6	3,053.1	3,030.8	7.0	7.7	-133.41	-183.6	283.4	463.0	450.5	12.45	37.179		
3,200.0	3,188.2	3,151.3	3,127.8	7.2	8.0	-133.15	-192.8	295.5	481.9	469.0	12.88	37.401		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4N-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	80.05	7.4	42.3	43.0					
100.0	100.0	100.0	100.0	0.1	0.1	80.05	7.4	42.3	43.0	42.7	0.30	144.811		
200.0	200.0	200.0	200.0	0.3	0.3	80.05	7.4	42.3	43.0	42.3	0.65	66.535 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-145.64	7.4	42.3	43.7	42.7	1.00	43.900		
400.0	400.0	400.0	400.0	0.7	0.7	-147.47	7.4	42.3	45.9	44.5	1.35	34.095		
500.0	499.9	499.9	499.9	0.9	0.8	-150.16	7.4	42.3	49.6	47.9	1.70	29.234		
600.0	599.7	599.7	599.7	1.1	1.0	-153.30	7.4	42.3	55.0	52.9	2.05	26.838		
700.0	699.4	699.4	699.4	1.3	1.2	-156.53	7.4	42.3	62.1	59.7	2.40	25.871 SF		
800.0	798.9	798.2	798.2	1.5	1.4	-158.95	7.0	43.1	71.2	68.5	2.75	25.898		
900.0	898.5	896.9	896.8	1.7	1.5	-159.90	5.8	45.3	81.6	78.5	3.10	26.301		
1,000.0	998.0	995.3	995.2	2.0	1.7	-159.77	3.8	49.0	93.1	89.6	3.46	26.883		
1,100.0	1,097.6	1,093.5	1,093.2	2.2	1.9	-158.94	1.0	54.2	105.5	101.7	3.83	27.576		
1,200.0	1,197.1	1,191.3	1,190.7	2.4	2.1	-157.65	-2.6	60.8	119.1	114.9	4.20	28.345		
1,300.0	1,296.7	1,288.8	1,287.8	2.7	2.3	-156.06	-7.0	68.9	133.7	129.1	4.58	29.176		
1,400.0	1,396.2	1,385.9	1,384.2	2.9	2.5	-154.32	-12.1	78.4	149.6	144.6	4.98	30.059		
1,500.0	1,495.8	1,482.4	1,480.0	3.1	2.8	-152.50	-18.0	89.2	166.7	161.4	5.38	30.992		
1,600.0	1,595.4	1,578.5	1,575.0	3.4	3.0	-150.66	-24.6	101.4	185.2	179.4	5.79	31.972		
1,700.0	1,694.9	1,673.9	1,669.3	3.6	3.3	-148.85	-31.9	114.9	205.0	198.8	6.21	33.000		
1,800.0	1,794.5	1,768.8	1,762.6	3.9	3.6	-147.10	-39.9	129.7	226.3	219.6	6.64	34.073		
1,900.0	1,894.0	1,862.9	1,854.9	4.1	3.9	-145.42	-48.6	145.7	248.9	241.8	7.07	35.190		
2,000.0	1,993.6	1,957.3	1,947.3	4.3	4.3	-143.81	-58.0	163.1	273.0	265.4	7.51	36.348		
2,100.0	2,093.1	2,054.0	2,041.7	4.6	4.6	-142.38	-67.8	181.2	297.5	289.6	7.95	37.417		
2,200.0	2,192.7	2,150.7	2,136.2	4.8	5.0	-141.17	-77.6	199.3	322.2	313.8	8.39	38.400		
2,300.0	2,292.2	2,247.4	2,230.7	5.1	5.4	-140.13	-87.4	217.5	347.0	338.2	8.83	39.304		
2,400.0	2,391.8	2,344.1	2,325.1	5.3	5.7	-139.22	-97.2	235.6	372.0	362.7	9.27	40.137		
2,500.0	2,491.3	2,440.8	2,419.6	5.5	6.1	-138.44	-107.0	253.7	397.0	387.2	9.70	40.908		
2,600.0	2,590.9	2,537.5	2,514.1	5.8	6.5	-137.74	-116.8	271.8	422.0	411.9	10.14	41.622		
2,700.0	2,690.4	2,634.1	2,608.5	6.0	6.9	-137.12	-126.6	289.9	447.1	436.5	10.57	42.286		
2,800.0	2,790.0	2,730.8	2,703.0	6.3	7.3	-136.57	-136.4	308.0	472.3	461.3	11.01	42.904		
2,900.0	2,889.5	2,827.5	2,797.5	6.5	7.7	-136.07	-146.2	326.2	497.5	486.0	11.44	43.481		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4O-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	85.21	3.8	45.1	45.3					
100.0	100.0	100.0	100.0	0.1	0.1	85.21	3.8	45.1	45.3	45.0	0.30	152.595		
200.0	200.0	200.0	200.0	0.3	0.3	85.21	3.8	45.1	45.3	44.6	0.65	70.111 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-140.52	3.8	45.1	45.9	45.0	1.00	46.170		
400.0	400.0	400.0	400.0	0.7	0.7	-142.50	3.8	45.1	48.0	46.6	1.35	35.662		
500.0	499.9	499.1	499.1	0.9	0.8	-144.95	3.5	45.9	52.3	50.6	1.70	30.804		
600.0	599.7	597.9	597.9	1.1	1.0	-147.06	2.7	48.4	59.6	57.5	2.05	29.053		
700.0	699.4	696.5	696.3	1.3	1.2	-148.67	1.3	52.4	69.9	67.5	2.41	29.019 SF		
800.0	798.9	794.5	794.2	1.5	1.4	-149.73	-0.6	58.0	82.9	80.1	2.77	29.922		
900.0	898.5	892.2	891.6	1.7	1.6	-150.01	-3.0	65.1	97.5	94.3	3.14	31.055		
1,000.0	998.0	989.4	988.3	2.0	1.8	-149.73	-6.0	73.8	113.5	109.9	3.51	32.294		
1,100.0	1,097.6	1,086.1	1,084.5	2.2	2.0	-149.13	-9.5	84.0	130.8	126.9	3.89	33.601		
1,200.0	1,197.1	1,182.4	1,179.9	2.4	2.3	-148.32	-13.4	95.6	149.6	145.3	4.28	34.956		
1,300.0	1,296.7	1,278.0	1,274.6	2.7	2.6	-147.40	-17.9	108.7	169.8	165.1	4.67	36.349		
1,400.0	1,396.2	1,373.0	1,368.4	2.9	2.9	-146.43	-22.8	123.1	191.4	186.3	5.07	37.774		
1,500.0	1,495.8	1,467.4	1,461.2	3.1	3.2	-145.45	-28.2	138.9	214.5	209.0	5.47	39.228		
1,600.0	1,595.4	1,561.0	1,553.1	3.4	3.5	-144.47	-34.1	156.1	239.0	233.1	5.87	40.707		
1,700.0	1,694.9	1,653.9	1,643.9	3.6	3.9	-143.52	-40.3	174.5	265.0	258.7	6.28	42.209		
1,800.0	1,794.5	1,745.9	1,733.6	3.9	4.2	-142.61	-47.0	194.1	292.4	285.7	6.69	43.732		
1,900.0	1,894.0	1,837.2	1,822.2	4.1	4.7	-141.73	-54.1	214.8	321.3	314.2	7.10	45.275		
2,000.0	1,993.6	1,927.8	1,909.7	4.3	5.1	-140.89	-61.6	236.8	351.6	344.1	7.51	46.841		
2,100.0	2,093.1	2,022.7	2,001.3	4.6	5.5	-140.10	-69.6	260.4	382.6	374.6	7.93	48.273		
2,200.0	2,192.7	2,117.7	2,093.0	4.8	6.0	-139.44	-77.7	284.0	413.6	405.3	8.34	49.574		
2,300.0	2,292.2	2,212.6	2,184.6	5.1	6.4	-138.86	-85.7	307.6	444.7	435.9	8.76	50.760		
2,400.0	2,391.8	2,307.6	2,276.2	5.3	6.9	-138.36	-93.8	331.2	475.8	466.7	9.18	51.845		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Hwy 52 4P-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	81.67	7.4	50.7	51.3					
100.0	100.0	100.0	100.0	0.1	0.1	81.67	7.4	50.7	51.3	51.0	0.30	172.743		
200.0	200.0	200.0	200.0	0.3	0.3	81.67	7.4	50.7	51.3	50.6	0.65	79.369 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	-143.61	7.3	51.6	52.8	51.8	0.99	53.107		
400.0	400.0	398.1	398.1	0.7	0.7	-144.28	6.8	54.1	57.3	56.0	1.34	42.686		
500.0	499.9	496.9	496.7	0.9	0.9	-145.17	6.0	58.3	64.9	63.2	1.70	38.306		
600.0	599.7	595.2	594.8	1.1	1.1	-146.12	4.9	64.1	75.6	73.5	2.05	36.850 SF		
700.0	699.4	692.9	692.3	1.3	1.3	-146.99	3.5	71.5	89.3	86.9	2.41	37.010		
800.0	798.9	790.0	789.0	1.5	1.5	-147.70	1.8	80.5	105.7	103.0	2.78	38.059		
900.0	898.5	886.6	884.9	1.7	1.7	-147.98	-0.2	91.1	123.9	120.7	3.15	39.334		
1,000.0	998.0	982.6	980.2	2.0	2.0	-147.91	-2.5	103.2	143.5	140.0	3.52	40.727		
1,100.0	1,097.6	1,078.0	1,074.6	2.2	2.3	-147.63	-5.0	116.7	164.6	160.7	3.90	42.198		
1,200.0	1,197.1	1,172.7	1,168.0	2.4	2.6	-147.22	-7.8	131.7	187.3	183.0	4.28	43.727		
1,300.0	1,296.7	1,266.7	1,260.6	2.7	2.9	-146.73	-10.9	148.0	211.4	206.7	4.67	45.298		
1,400.0	1,396.2	1,360.0	1,352.1	2.9	3.2	-146.20	-14.2	165.7	237.0	231.9	5.05	46.904		
1,500.0	1,495.8	1,452.5	1,442.5	3.1	3.6	-145.64	-17.8	184.7	264.0	258.6	5.44	48.537		
1,600.0	1,595.4	1,544.2	1,531.9	3.4	4.0	-145.08	-21.6	204.9	292.5	286.7	5.83	50.193		
1,700.0	1,694.9	1,635.0	1,620.0	3.6	4.4	-144.53	-25.7	226.4	322.5	316.3	6.22	51.869		
1,800.0	1,794.5	1,724.9	1,706.9	3.9	4.8	-143.98	-29.9	248.9	353.9	347.3	6.61	53.561		
1,900.0	1,894.0	1,813.8	1,792.6	4.1	5.3	-143.46	-34.4	272.6	386.7	379.7	7.00	55.268		
2,000.0	1,993.6	1,902.8	1,877.8	4.3	5.8	-142.94	-39.1	297.5	420.9	413.6	7.39	56.974		
2,100.0	2,093.1	1,996.5	1,967.5	4.6	6.3	-142.46	-44.1	324.3	455.7	447.9	7.79	58.506		
2,200.0	2,192.7	2,090.2	2,057.1	4.8	6.8	-142.04	-49.1	351.0	490.5	482.3	8.19	59.894		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 (EXISTING) - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 926-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	54.66	230.0	324.3	397.7						
100.0	100.0	92.9	92.9	0.1	0.2	54.66	229.9	324.3	397.5	397.2	0.31	1,284.405			
200.0	200.0	193.9	193.9	0.3	0.3	54.67	229.7	324.0	397.2	396.5	0.66	602.518			
232.0	232.0	226.2	226.2	0.4	0.4	-170.37	229.6	323.9	397.1	396.3	0.77	517.412 CC, ES			
300.0	300.0	294.9	294.8	0.5	0.5	-170.38	229.3	323.5	397.4	396.4	1.00	395.925			
400.0	400.0	395.8	395.8	0.7	0.7	-170.43	228.7	322.9	399.2	397.8	1.35	295.360			
500.0	499.9	496.7	496.7	0.9	0.9	-170.51	228.0	322.1	402.4	400.7	1.70	236.852			
600.0	599.7	597.6	597.6	1.1	1.1	-170.63	227.1	321.1	407.1	405.0	2.05	198.963			
700.0	699.4	698.4	698.4	1.3	1.2	-170.77	226.0	319.9	413.2	410.8	2.39	172.710			
800.0	798.9	799.2	799.1	1.5	1.4	-170.95	224.8	318.5	420.6	417.9	2.74	153.490			
900.0	898.5	900.0	899.9	1.7	1.6	-171.12	223.4	316.9	427.9	424.8	3.09	138.523			
1,000.0	998.0	997.6	997.5	2.0	1.8	-171.42	222.9	314.8	435.2	431.7	3.43	126.728			
1,100.0	1,097.6	1,083.3	1,083.1	2.2	1.9	-172.00	225.4	312.6	444.2	440.4	3.76	118.125			
1,200.0	1,197.1	1,168.5	1,168.2	2.4	2.0	-172.80	231.0	311.6	456.6	452.5	4.09	111.570			
1,300.0	1,296.7	1,254.5	1,253.7	2.7	2.2	-173.79	239.7	311.3	472.0	467.6	4.43	106.582			
1,400.0	1,396.2	1,345.5	1,344.0	2.9	2.4	-174.94	251.2	311.6	489.7	484.9	4.79	102.241 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 (EXISTING) - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	92.74	-8.2	171.9	172.2					
100.0	100.0	90.9	90.9	0.1	0.1	92.73	-8.2	172.1	172.3	172.1	0.28	606.631		
200.0	200.0	190.3	190.3	0.3	0.3	92.74	-8.3	173.0	173.2	172.5	0.63	275.121		
300.0	300.0	290.6	290.6	0.5	0.5	-132.37	-8.7	173.9	174.7	173.7	0.98	178.427		
400.0	400.0	390.8	390.8	0.7	0.7	-132.74	-9.5	174.6	177.2	175.8	1.33	133.063		
500.0	499.9	490.9	490.9	0.9	0.8	-133.50	-10.2	175.1	180.7	179.1	1.69	107.097		
600.0	599.7	590.8	590.8	1.1	1.0	-134.68	-10.8	175.6	185.5	183.5	2.05	90.567		
700.0	699.4	691.0	690.9	1.3	1.2	-136.19	-11.1	176.0	191.5	189.1	2.42	79.273		
800.0	798.9	790.8	790.7	1.5	1.4	-137.98	-11.3	176.1	198.4	195.6	2.78	71.271		
900.0	898.5	891.1	891.1	1.7	1.5	-139.75	-11.4	176.1	205.5	202.3	3.15	65.174		
1,000.0	998.0	991.1	991.1	2.0	1.7	-141.44	-11.2	175.6	212.4	208.9	3.52	60.341		
1,100.0	1,097.6	1,091.1	1,091.0	2.2	1.9	-142.98	-11.3	175.1	219.3	215.4	3.88	56.451		
1,200.0	1,197.1	1,191.8	1,191.7	2.4	2.1	-144.50	-11.2	174.1	226.0	221.8	4.25	53.203		
1,300.0	1,296.7	1,290.8	1,290.8	2.7	2.2	-145.99	-10.8	173.0	232.8	228.2	4.61	50.528		
1,400.0	1,396.2	1,390.5	1,390.4	2.9	2.4	-147.46	-10.1	172.0	239.9	234.9	4.96	48.315		
1,500.0	1,495.8	1,491.1	1,491.1	3.1	2.6	-148.93	-9.2	170.6	246.8	241.5	5.32	46.378		
1,600.0	1,595.4	1,591.7	1,591.6	3.4	2.8	-150.30	-8.4	168.9	253.4	247.8	5.68	44.649		
1,700.0	1,694.9	1,690.1	1,690.0	3.6	2.9	-151.57	-7.7	167.1	260.1	254.1	6.03	43.164		
1,800.0	1,794.5	1,788.4	1,788.3	3.9	3.1	-152.83	-6.6	165.8	267.6	261.2	6.37	41.982		
1,900.0	1,894.0	1,888.0	1,887.9	4.1	3.3	-154.13	-5.0	164.6	275.4	268.7	6.72	40.965		
2,000.0	1,993.6	1,986.7	1,986.5	4.3	3.4	-155.35	-3.3	163.4	283.5	276.4	7.07	40.102		
2,100.0	2,093.1	2,086.7	2,086.5	4.6	3.6	-156.36	-2.4	162.6	291.7	284.2	7.42	39.320		
2,200.0	2,192.7	2,186.1	2,185.9	4.8	3.8	-157.06	-2.6	162.2	299.9	292.2	7.77	38.617		
2,300.0	2,292.2	2,286.2	2,286.0	5.1	4.0	-157.67	-3.2	162.0	308.2	300.1	8.12	37.962		
2,400.0	2,391.8	2,385.8	2,385.7	5.3	4.1	-158.24	-3.8	161.5	316.3	307.8	8.47	37.355		
2,500.0	2,491.3	2,490.8	2,490.6	5.5	4.3	-158.69	-5.4	160.9	323.9	315.1	8.83	36.696		
2,600.0	2,590.9	2,601.8	2,601.5	5.8	4.5	-159.27	-7.6	157.0	328.8	319.6	9.20	35.751		
2,700.0	2,690.4	2,706.9	2,706.4	6.0	4.7	-159.69	-11.4	151.1	331.0	321.4	9.56	34.636		
2,800.0	2,790.0	2,812.9	2,812.0	6.3	4.9	-159.88	-17.0	144.6	332.2	322.2	9.92	33.479		
2,900.0	2,889.5	2,916.4	2,914.9	6.5	5.1	-159.93	-24.1	136.5	331.0	320.7	10.29	32.184		
3,000.0	2,989.1	3,024.2	3,022.1	6.7	5.3	-160.04	-31.8	127.0	328.9	318.2	10.66	30.864		
3,100.0	3,088.6	3,136.8	3,133.4	7.0	5.6	-159.95	-42.6	113.5	322.7	311.7	11.04	29.230		
3,200.0	3,188.2	3,233.8	3,229.0	7.2	5.8	-159.81	-52.7	101.1	315.6	304.2	11.40	27.688		
3,300.0	3,287.7	3,333.7	3,327.7	7.4	6.1	-159.86	-61.7	88.5	309.2	297.4	11.76	26.297		
3,400.0	3,387.3	3,444.4	3,436.8	7.7	6.4	-160.19	-71.2	72.3	301.2	289.1	12.13	24.831		
3,500.0	3,486.8	3,545.6	3,536.0	7.9	6.7	-160.42	-81.6	55.2	290.3	277.8	12.49	23.248		
3,600.0	3,586.4	3,650.8	3,638.8	8.2	7.0	-160.65	-92.9	36.3	278.2	265.4	12.85	21.652		
3,700.0	3,685.9	3,751.4	3,736.9	8.4	7.3	-160.41	-106.2	18.3	265.2	252.0	13.22	20.058		
3,800.0	3,785.5	3,852.6	3,835.2	8.6	7.7	-159.75	-121.6	-0.1	251.0	237.4	13.61	18.442		
3,900.0	3,885.1	3,953.4	3,933.0	8.9	8.1	-158.71	-138.1	-18.0	236.7	222.7	14.02	16.882		
4,000.0	3,984.6	4,052.5	4,029.0	9.1	8.5	-157.83	-153.8	-37.1	221.4	207.0	14.43	15.346		
4,100.0	4,084.2	4,150.1	4,123.7	9.4	8.8	-157.08	-168.3	-55.8	206.6	191.8	14.83	13.932		
4,200.0	4,183.7	4,246.0	4,217.1	9.6	9.2	-156.23	-182.0	-72.9	193.3	178.1	15.24	12.683		
4,300.0	4,283.3	4,341.5	4,310.4	9.8	9.5	-155.42	-194.6	-88.4	181.9	166.2	15.66	11.618		
4,400.0	4,382.8	4,437.5	4,404.6	10.1	9.9	-154.46	-206.9	-102.5	172.2	156.1	16.09	10.703		
4,500.0	4,482.4	4,537.7	4,502.9	10.3	10.2	-153.14	-220.1	-116.4	163.3	146.7	16.56	9.857		
4,600.0	4,581.9	4,636.1	4,599.5	10.6	10.5	-151.60	-233.3	-130.3	154.0	137.0	17.06	9.027		
4,700.0	4,681.5	4,732.6	4,694.5	10.8	10.8	-150.21	-245.1	-142.4	146.8	129.3	17.56	8.363		
4,800.0	4,781.0	4,827.9	4,788.8	11.0	11.1	-149.36	-254.7	-152.6	142.1	124.1	18.01	7.889		
4,900.0	4,880.6	4,923.7	4,884.0	11.3	11.3	-149.18	-261.8	-160.1	140.7	122.3	18.40	7.648		
4,900.0	4,880.6	4,923.8	4,884.0	11.3	11.3	-149.18	-261.8	-160.1	140.7	122.3	18.40	7.648 CC, ES		
5,000.0	4,980.1	5,021.8	4,981.7	11.5	11.6	-149.54	-267.3	-166.1	141.5	122.8	18.74	7.551 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 (EXISTING) - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,100.0	5,079.7	5,119.0	5,078.7	11.8	11.7	-150.39	-271.2	-171.0	143.9	124.8	19.04	7.557		
5,200.0	5,179.2	5,216.8	5,176.4	12.0	11.9	-151.78	-273.2	-174.7	148.0	128.7	19.28	7.675		
5,300.0	5,278.8	5,314.1	5,273.7	12.3	12.1	-153.46	-273.9	-177.3	153.6	134.1	19.49	7.878		
5,400.0	5,378.3	5,411.1	5,370.7	12.5	12.2	-155.19	-273.4	-178.3	161.3	141.6	19.71	8.184		
5,500.0	5,477.9	5,510.4	5,470.0	12.7	12.3	-157.08	-272.0	-179.1	169.8	149.8	19.92	8.521		
5,600.0	5,577.4	5,609.2	5,568.7	13.0	12.4	-159.01	-269.7	-179.8	178.7	158.6	20.14	8.874		
5,700.0	5,677.0	5,708.1	5,667.6	13.2	12.6	-160.56	-267.9	-180.0	188.2	167.8	20.40	9.227		
5,800.0	5,776.5	5,807.9	5,767.4	13.5	12.7	-161.85	-266.4	-180.0	197.8	177.2	20.67	9.570		
5,900.0	5,876.1	5,908.0	5,867.5	13.7	12.8	-163.14	-264.7	-180.3	207.3	186.3	20.96	9.892		
6,000.0	5,975.7	6,009.5	5,969.0	13.9	13.0	-164.28	-263.5	-181.2	216.2	194.9	21.26	10.171		
6,100.0	6,075.2	6,110.1	6,069.6	14.2	13.1	-165.14	-263.3	-182.5	224.3	202.7	21.57	10.399		
6,200.0	6,174.8	6,208.2	6,167.7	14.4	13.3	-166.04	-262.6	-183.8	232.7	210.9	21.88	10.638		
6,300.0	6,274.3	6,307.4	6,266.8	14.7	13.4	-167.03	-261.1	-184.9	241.8	219.6	22.19	10.895		
6,400.0	6,373.9	6,407.7	6,367.2	14.9	13.6	-167.89	-259.9	-186.1	250.6	228.1	22.51	11.133		
6,500.0	6,473.4	6,506.8	6,466.3	15.1	13.7	-168.64	-259.0	-187.3	259.4	236.6	22.84	11.359		
6,600.0	6,573.0	6,605.5	6,564.9	15.4	13.9	-169.46	-257.4	-188.5	268.5	245.4	23.16	11.594		
6,700.0	6,672.5	6,702.3	6,661.7	15.6	14.0	-170.24	-255.4	-189.3	278.3	254.9	23.49	11.851		
6,800.0	6,772.1	6,799.9	6,759.3	15.9	14.1	-170.95	-253.0	-189.3	289.1	265.3	23.82	12.139		
6,900.0	6,871.6	6,900.8	6,860.1	16.1	14.2	-171.70	-250.2	-189.6	299.9	275.7	24.15	12.415		
7,000.0	6,971.2	7,000.6	6,959.8	16.3	14.4	-172.50	-247.2	-190.5	310.2	285.8	24.49	12.667		
7,100.0	7,070.7	7,099.1	7,058.3	16.6	14.5	-173.28	-244.0	-191.5	320.8	296.0	24.83	12.921		
7,200.0	7,170.4	7,200.2	7,159.4	16.8	14.7	103.32	-240.9	-192.4	329.0	303.8	25.15	13.079		
7,300.0	7,269.1	7,301.5	7,260.6	16.8	14.8	70.61	-239.4	-192.8	326.3	301.0	25.35	12.872		
7,400.0	7,363.8	7,391.7	7,350.9	16.7	14.9	69.33	-238.4	-192.6	315.4	289.8	25.60	12.317		
7,500.0	7,451.8	7,477.0	7,436.1	16.6	15.0	74.92	-236.8	-191.3	301.3	275.1	26.19	11.505		
7,600.0	7,530.3	7,556.1	7,515.2	16.4	15.1	83.70	-234.7	-189.7	290.3	263.3	27.04	10.735		
7,650.1	7,565.4	7,592.3	7,551.4	16.3	15.2	88.40	-233.7	-189.0	288.5	261.1	27.42	10.522		
7,700.0	7,597.0	7,625.3	7,584.3	16.2	15.2	92.75	-232.6	-188.4	290.7	263.0	27.64	10.517		
7,800.0	7,649.8	7,680.8	7,639.8	16.1	15.3	99.15	-230.7	-187.4	310.5	282.8	27.71	11.204		
7,900.0	7,687.1	7,721.2	7,680.1	16.2	15.3	101.11	-229.2	-186.6	352.7	325.1	27.68	12.745		
8,000.0	7,707.8	7,745.6	7,704.5	16.4	15.4	97.58	-228.3	-186.1	414.1	386.1	27.99	14.792		
8,100.0	7,712.0	7,753.8	7,712.7	16.8	15.4	91.66	-227.9	-185.9	488.3	459.8	28.50	17.134		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 (EXISTING) - ENCANA WELL - ENCANA WELL		Offset Site Error:		0.0 ft
Survey Program:													134-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
0.0	0.0	0.0	0.0	0.0	0.0	57.08	217.3	335.5	399.8								
100.0	100.0	91.5	91.5	0.1	0.1	57.13	216.9	335.7	399.7	399.4	0.29	1,375.620					
143.0	143.0	134.0	134.0	0.2	0.2	57.19	216.5	335.9	399.6	399.2	0.43	925.759 CC, ES					
200.0	200.0	185.2	185.2	0.3	0.3	57.25	216.3	336.4	400.0	399.4	0.62	643.299					
300.0	300.0	273.1	273.1	0.5	0.5	-167.80	217.7	338.5	403.7	402.8	0.95	425.589					
400.0	400.0	364.1	363.9	0.7	0.6	-167.86	220.5	342.8	411.9	410.6	1.28	321.369					
500.0	499.9	452.2	451.7	0.9	0.8	-167.89	223.9	348.7	423.9	422.3	1.61	263.356					
600.0	599.7	541.3	540.4	1.1	1.1	-167.88	228.2	357.1	440.3	438.3	1.94	226.983					
700.0	699.4	630.7	629.0	1.3	1.3	-167.83	232.9	367.2	460.2	458.0	2.27	202.714					
800.0	798.9	716.6	714.0	1.5	1.6	-167.76	237.9	378.8	483.6	481.0	2.60	186.142 SF					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 60-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,600.0	7,712.0	7,728.9	7,678.6	34.8	19.4	-89.14	2,020.8	-776.3	465.3	413.9	51.38	9.055	
9,700.0	7,712.0	7,730.0	7,679.8	36.4	19.4	-89.36	2,020.8	-776.3	392.1	339.1	53.00	7.397	
9,800.0	7,712.0	7,731.2	7,680.9	38.0	19.4	-89.59	2,020.8	-776.4	333.1	278.4	54.63	6.097	
9,900.0	7,712.0	7,732.3	7,682.1	39.5	19.4	-89.82	2,020.8	-776.4	296.9	240.6	56.26	5.277	
9,963.9	7,712.0	7,733.1	7,682.8	40.6	19.4	-89.96	2,020.8	-776.4	290.0	232.6	57.32	5.059 CC, ES	
10,000.0	7,712.0	7,733.5	7,683.2	41.2	19.4	-90.04	2,020.8	-776.4	292.2	234.3	57.91	5.046 SF	
10,100.0	7,712.0	7,734.6	7,684.4	42.8	19.4	-90.28	2,020.8	-776.4	320.3	260.7	59.57	5.377	
10,200.0	7,712.0	7,735.8	7,685.6	44.4	19.4	-90.51	2,020.8	-776.4	373.9	312.7	61.23	6.107	
10,300.0	7,712.0	7,737.0	7,686.7	46.0	19.4	-90.74	2,020.9	-776.4	443.9	381.0	62.90	7.057	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 60-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,300.0	7,712.0	7,719.3	7,668.3	18.0	19.0	-86.87	745.2	-755.7	472.8	439.9	32.90	14.371	
8,400.0	7,712.0	7,722.2	7,671.2	18.9	19.0	-87.50	745.3	-755.7	394.8	360.9	33.86	11.657	
8,500.0	7,712.0	7,725.2	7,674.2	19.9	19.0	-88.13	745.4	-755.8	328.9	293.9	34.95	9.410	
8,600.0	7,712.0	7,728.2	7,677.2	20.9	19.0	-88.76	745.5	-755.8	283.6	247.5	36.14	7.849	
8,688.6	7,712.0	7,730.8	7,679.8	21.9	19.0	-89.32	745.5	-755.8	269.5	232.2	37.26	7.232 CC, ES	
8,700.0	7,712.0	7,731.2	7,680.2	22.1	19.0	-89.40	745.5	-755.8	269.7	232.3	37.40	7.211 SF	
8,800.0	7,712.0	7,734.2	7,683.2	23.3	19.0	-90.04	745.6	-755.9	291.6	252.8	38.74	7.527	
8,900.0	7,712.0	7,737.2	7,686.2	24.6	19.0	-90.68	745.7	-755.9	342.4	302.3	40.12	8.534	
9,000.0	7,712.0	7,740.2	7,689.2	26.0	19.0	-91.32	745.8	-756.0	411.7	370.1	41.56	9.907	
9,100.0	7,712.0	7,743.3	7,692.3	27.3	19.0	-91.97	745.9	-756.0	491.6	448.6	43.02	11.428	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,000.0	3,984.6	4,355.1	4,133.0	9.1	26.3	164.80	162.4	-12.4	493.6	475.9	17.70	27.886		
4,100.0	4,084.2	4,450.3	4,220.5	9.4	27.0	163.69	136.6	-39.7	464.3	445.8	18.49	25.106		
4,200.0	4,183.7	4,545.5	4,308.0	9.6	27.7	162.43	110.7	-67.0	435.2	415.8	19.37	22.468		
4,300.0	4,283.3	4,640.7	4,395.4	9.8	28.4	161.00	84.9	-94.3	406.3	385.9	20.34	19.971		
4,400.0	4,382.8	4,735.9	4,482.9	10.1	29.1	159.34	59.0	-121.6	377.6	356.2	21.44	17.613		
4,500.0	4,482.4	4,831.0	4,570.3	10.3	29.8	157.42	33.2	-148.9	349.4	326.7	22.69	15.396		
4,600.0	4,581.9	4,926.2	4,657.8	10.6	30.5	155.17	7.4	-176.2	321.5	297.4	24.13	13.323		
4,700.0	4,681.5	5,021.4	4,745.2	10.8	31.2	152.51	-18.5	-203.5	294.2	268.4	25.80	11.402		
4,800.0	4,781.0	5,116.6	4,832.7	11.0	31.9	149.33	-44.3	-230.8	267.6	239.8	27.76	9.639		
4,900.0	4,880.6	5,211.8	4,920.1	11.3	32.6	145.47	-70.1	-258.1	242.0	211.9	30.07	8.047		
5,000.0	4,980.1	5,307.0	5,007.6	11.5	33.3	140.77	-96.0	-285.4	217.7	184.9	32.79	6.638		
5,100.0	5,079.7	5,402.2	5,095.1	11.8	34.0	134.98	-121.8	-312.7	195.1	159.2	35.95	5.427		
5,200.0	5,179.2	5,497.4	5,182.5	12.0	34.7	127.86	-147.7	-340.0	175.1	135.5	39.52	4.430		
5,300.0	5,278.8	5,592.6	5,270.0	12.3	35.4	119.19	-173.5	-367.3	158.4	115.1	43.28	3.660		
5,400.0	5,378.3	5,687.8	5,357.4	12.5	36.1	108.94	-199.3	-394.6	146.4	99.6	46.77	3.130		
5,500.0	5,477.9	5,783.0	5,444.9	12.7	36.8	97.45	-225.2	-421.9	140.1	90.8	49.29	2.842		
5,545.7	5,523.4	5,826.4	5,484.8	12.8	37.1	91.99	-237.0	-434.4	139.4	89.5	49.95	2.791	CC, ES, SF	
5,600.0	5,577.4	5,878.2	5,532.3	13.0	37.5	85.51	-251.0	-449.2	140.4	90.1	50.25	2.794		
5,700.0	5,677.0	5,973.4	5,619.8	13.2	38.2	74.10	-276.9	-476.6	147.2	97.6	49.56	2.970		
5,800.0	5,776.5	6,068.5	5,707.2	13.5	38.9	63.98	-302.7	-503.9	159.7	112.0	47.70	3.348		
5,900.0	5,876.1	6,163.7	5,794.7	13.7	39.6	55.44	-328.5	-531.2	176.7	131.4	45.31	3.899		
6,000.0	5,975.7	6,258.9	5,882.1	13.9	40.3	48.45	-354.4	-558.5	197.0	154.1	42.88	4.594		
6,100.0	6,075.2	6,355.3	5,970.7	14.2	40.9	42.71	-380.5	-586.0	219.7	179.1	40.56	5.416		
6,200.0	6,174.8	6,457.7	6,065.8	14.4	40.9	38.13	-406.7	-613.7	242.2	203.9	38.33	6.319		
6,300.0	6,274.3	6,562.3	6,164.1	14.7	41.0	34.74	-431.0	-639.4	262.9	226.2	36.70	7.163		
6,400.0	6,373.9	6,668.6	6,265.5	14.9	41.0	32.23	-453.2	-662.9	281.1	245.6	35.55	7.907		
6,500.0	6,473.4	6,776.5	6,369.5	15.1	41.1	30.39	-473.0	-683.8	296.5	261.7	34.79	8.523		
6,600.0	6,573.0	6,885.8	6,475.7	15.4	41.1	29.08	-490.4	-702.2	308.8	274.5	34.34	8.994		
6,700.0	6,672.5	6,996.0	6,583.9	15.6	41.2	28.21	-505.0	-717.6	317.8	283.7	34.13	9.312		
6,800.0	6,772.1	7,107.0	6,693.5	15.9	41.3	27.71	-516.9	-730.2	323.5	289.3	34.15	9.472		
6,900.0	6,871.6	7,218.3	6,804.0	16.1	41.3	27.56	-525.8	-739.6	325.6	291.3	34.37	9.475		
7,000.0	6,971.2	7,329.6	6,915.0	16.3	41.4	27.74	-531.8	-746.0	324.3	289.5	34.77	9.327		
7,100.0	7,070.7	7,440.6	7,025.9	16.6	41.4	28.27	-534.9	-749.2	319.5	284.1	35.36	9.034		
7,200.0	7,170.4	7,546.1	7,131.4	16.8	41.5	-54.95	-535.3	-749.6	312.8	277.3	35.44	8.825		
7,281.5	7,251.0	7,626.7	7,212.0	16.8	41.5	-90.00	-535.3	-749.6	310.7	276.2	34.47	9.013		
7,300.0	7,269.1	7,644.8	7,230.1	16.8	41.5	-93.25	-535.3	-749.6	310.8	276.6	34.16	9.099		
7,400.0	7,363.8	7,739.5	7,324.8	16.7	41.6	-104.94	-535.3	-749.6	316.7	284.5	32.13	9.855		
7,500.0	7,451.8	7,827.5	7,412.8	16.6	41.6	-113.10	-535.3	-749.6	334.3	304.1	30.20	11.069		
7,600.0	7,530.3	7,906.0	7,491.3	16.4	41.7	-119.09	-535.3	-749.6	367.4	338.3	29.05	12.646		
7,700.0	7,597.0	7,972.7	7,558.0	16.2	41.7	-122.43	-535.3	-749.6	417.3	388.1	29.20	14.289		
7,800.0	7,649.8	8,025.5	7,610.8	16.1	41.8	-122.33	-535.3	-749.6	482.9	451.6	31.26	15.444		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - Ray Nelson 7-8-32 - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	60.20	200.5	350.1	403.5				
100.0	100.0	91.0	91.0	0.1	0.1	60.20	200.5	350.1	403.4	403.1	0.28	1,423.765	
200.0	200.0	191.0	191.0	0.3	0.3	60.20	200.5	350.1	403.4	402.8	0.63	640.300 CC, ES	
300.0	300.0	291.0	291.0	0.5	0.5	-164.86	200.5	350.1	404.3	403.3	0.98	412.901	
400.0	400.0	391.0	391.0	0.7	0.7	-164.95	200.5	350.1	406.8	405.5	1.33	306.292	
500.0	499.9	490.9	490.9	0.9	0.8	-165.10	200.5	350.1	411.0	409.3	1.68	245.050	
600.0	599.7	586.2	586.2	1.1	1.0	-165.12	199.7	351.1	417.4	415.4	2.02	206.619	
700.0	699.4	680.8	680.7	1.3	1.2	-164.80	196.9	354.5	426.6	424.3	2.37	180.055	
800.0	798.9	774.9	774.4	1.5	1.4	-164.17	192.2	360.3	438.5	435.7	2.73	160.322	
900.0	898.5	868.2	867.2	1.7	1.6	-163.23	185.6	368.4	451.7	448.6	3.12	144.593	
1,000.0	998.0	960.7	958.7	2.0	1.8	-162.01	177.1	378.7	466.4	462.9	3.54	131.681	
1,100.0	1,097.6	1,052.2	1,048.8	2.2	2.1	-160.55	167.0	391.2	482.7	478.7	3.99	120.930 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 70-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	60.20	200.5	350.1	403.5					
100.0	100.0	87.4	87.4	0.1	0.1	60.21	200.7	350.5	403.9	403.6	0.28	1,468.582		
200.0	200.0	183.3	183.3	0.3	0.3	60.28	200.8	351.8	405.1	404.5	0.62	654.359		
300.0	300.0	279.7	279.7	0.5	0.5	-164.41	199.6	354.9	408.2	407.2	0.97	422.163		
400.0	400.0	370.7	370.4	0.7	0.7	-163.77	196.8	360.5	414.6	413.2	1.32	313.702		
500.0	499.9	464.4	463.6	0.9	0.9	-162.86	192.8	368.9	424.6	422.9	1.70	249.455		
600.0	599.7	557.2	555.7	1.1	1.2	-161.71	186.9	379.2	437.4	435.3	2.11	207.700		
700.0	699.4	645.7	643.0	1.3	1.5	-160.43	180.0	391.6	454.0	451.5	2.53	179.481		
800.0	798.9	733.0	728.7	1.5	1.8	-159.01	171.7	406.6	474.3	471.3	2.97	159.522		
900.0	898.5	818.1	811.6	1.7	2.1	-157.66	163.6	423.3	497.3	493.9	3.42	145.476 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,600.0	5,577.4	5,572.4	5,569.3	13.0	9.8	-4.48	-707.4	-656.3	488.7	469.2	19.45	25.125		
5,700.0	5,677.0	5,698.6	5,692.6	13.2	10.1	-5.15	-690.1	-635.9	458.6	438.7	19.84	23.108		
5,800.0	5,776.5	5,819.2	5,808.5	13.5	10.4	-6.11	-668.5	-610.7	422.5	402.3	20.24	20.878		
5,900.0	5,876.1	5,933.6	5,916.3	13.7	10.8	-7.46	-643.8	-581.7	381.0	360.3	20.63	18.466		
6,000.0	5,975.7	6,041.6	6,015.8	13.9	11.2	-9.39	-616.6	-549.9	334.5	313.4	21.04	15.900		
6,100.0	6,075.2	6,131.1	6,097.0	14.2	11.6	-11.76	-592.1	-521.2	285.1	263.7	21.45	13.294		
6,200.0	6,174.8	6,217.3	6,175.2	14.4	12.0	-14.99	-568.4	-493.5	236.2	214.3	21.92	10.775		
6,300.0	6,274.3	6,303.5	6,253.3	14.7	12.5	-19.84	-544.7	-465.8	188.1	165.6	22.55	8.343		
6,400.0	6,373.9	6,389.8	6,331.5	14.9	12.9	-27.74	-521.0	-438.1	141.9	118.3	23.54	6.026		
6,500.0	6,473.4	6,476.0	6,409.6	15.1	13.4	-42.00	-497.4	-410.4	99.9	74.5	25.41	3.932		
6,600.0	6,573.0	6,562.3	6,487.8	15.4	13.9	-68.76	-473.7	-382.7	70.5	42.0	28.52	2.471		
6,647.9	6,620.6	6,603.6	6,525.2	15.5	14.1	-86.29	-462.3	-369.4	66.2	36.6	29.60	2.237	CC, ES, SF	
6,700.0	6,672.5	6,648.5	6,566.0	15.6	14.4	-105.25	-450.0	-355.0	71.3	41.7	29.57	2.410		
6,800.0	6,772.1	6,735.3	6,644.7	15.9	14.9	-131.47	-426.2	-327.1	101.5	73.7	27.74	3.658		
6,900.0	6,871.6	6,826.0	6,727.7	16.1	15.4	-145.41	-402.6	-299.5	141.9	115.4	26.46	5.363		
7,000.0	6,971.2	6,919.8	6,814.8	16.3	16.0	-153.00	-379.9	-273.0	183.6	157.7	25.93	7.080		
7,100.0	7,070.7	7,016.7	6,905.9	16.6	16.5	-157.60	-358.5	-247.9	224.0	198.2	25.79	8.685		
7,200.0	7,170.4	7,117.7	7,002.0	16.8	16.9	115.09	-338.3	-224.2	260.5	234.7	25.75	10.115		
7,300.0	7,269.1	7,223.5	7,103.7	16.8	17.4	79.28	-319.5	-202.2	286.7	260.6	26.06	11.002		
7,400.0	7,363.8	7,329.5	7,206.7	16.7	17.8	75.96	-303.1	-183.1	302.8	276.1	26.72	11.336		
7,500.0	7,451.8	7,430.7	7,305.8	16.6	18.2	79.79	-289.8	-167.5	312.3	284.5	27.76	11.250		
7,600.0	7,530.3	7,522.7	7,396.5	16.4	18.5	86.59	-279.7	-155.7	321.1	292.2	28.93	11.098		
7,700.0	7,597.0	7,601.4	7,474.4	16.2	18.7	93.62	-272.5	-147.3	337.0	307.3	29.70	11.346		
7,800.0	7,649.8	7,664.2	7,536.8	16.1	18.8	98.50	-267.8	-141.8	366.5	336.6	29.86	12.274		
7,900.0	7,687.1	7,709.2	7,581.6	16.2	18.9	99.55	-265.0	-138.5	412.7	382.9	29.84	13.830		
8,000.0	7,707.8	7,735.9	7,608.2	16.4	19.0	95.72	-263.6	-136.8	474.2	444.1	30.15	15.731		

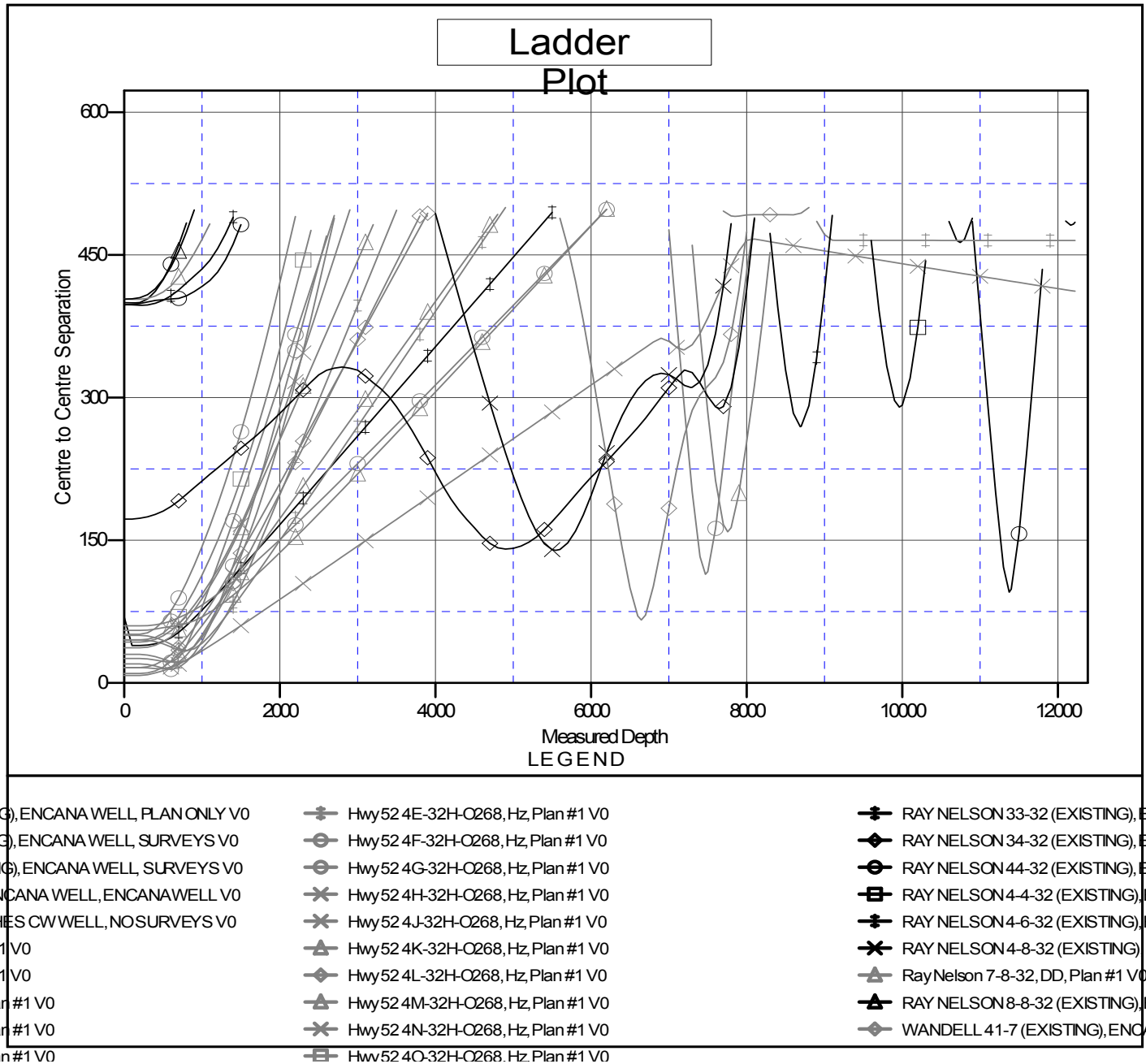


# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4I-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5003.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4I-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5003.0ft (Original Well Elev)  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000 °

Coordinates are relative to: Hwy 52 4I-32H-O268  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.31°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation