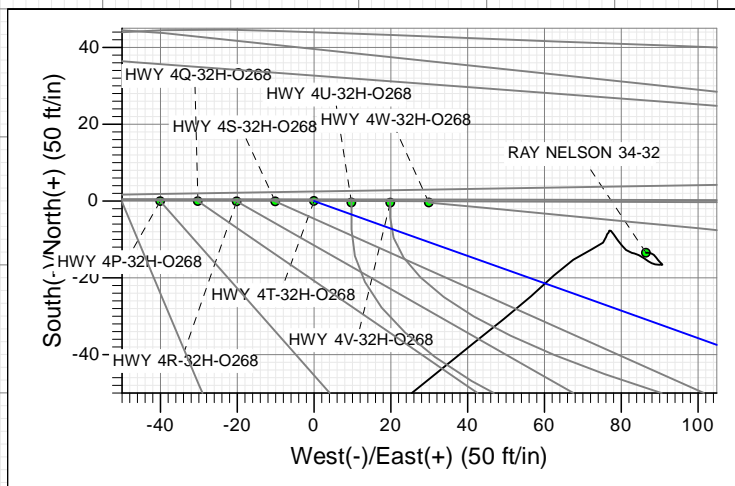
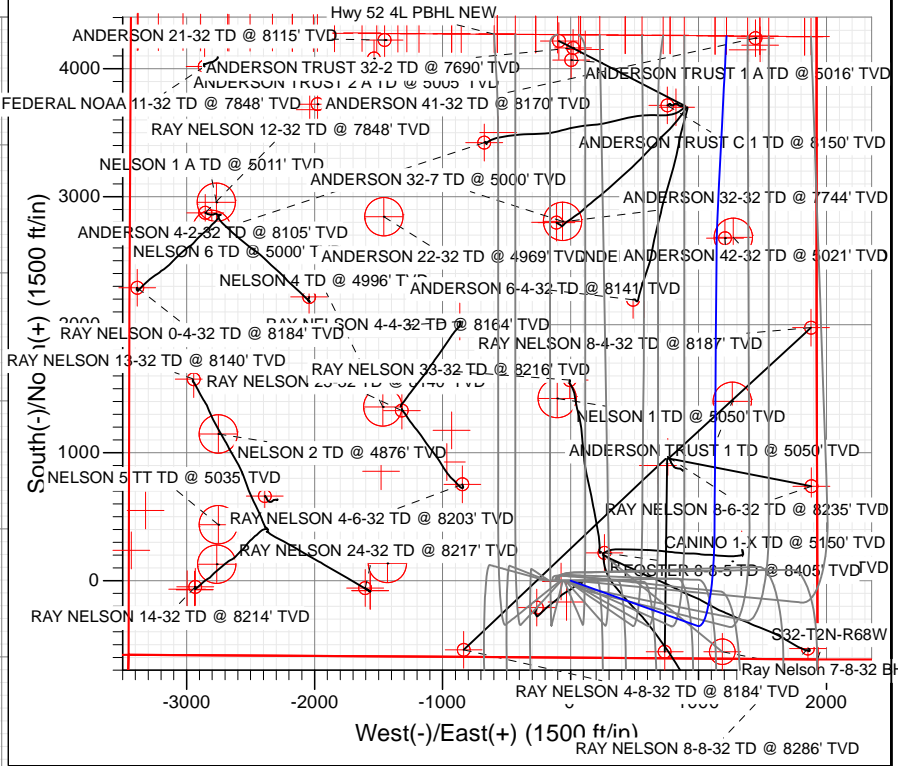
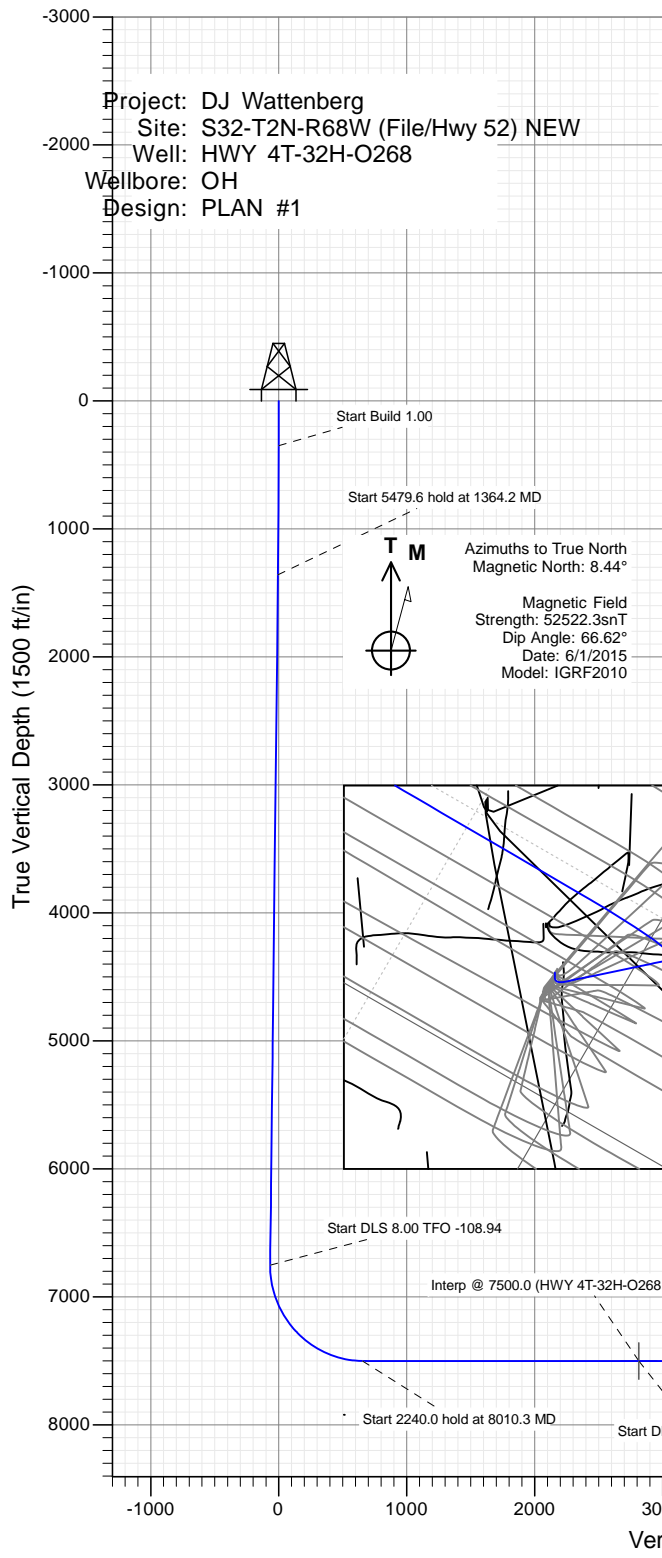




SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	
3	1364.2	10.14	109.62	1358.9	-30.1	84.3	1.00	109.62	-5.7	
4	6843.8	10.14	109.62	6752.9	-354.0	993.2	0.00	0.00	-67.1	
5	8010.3	90.00	0.40	7500.0	360.1	1124.4	8.00	-108.94	655.5	
6	10250.3	90.00	0.40	7500.0	2600.0	1140.0	0.00	0.00	2813.3	Interp @ 7500.0 (HWY 4T-32H-O268 OH PLAN #1)
7	10498.8	90.00	2.89	7500.0	2848.4	1147.1	1.00	90.00	3054.1	
8	11907.9	90.00	2.89	7500.0	4255.6	1218.0	0.00	0.00	4426.5	HWY 4T PBHL NEW



WELL DETAILS: HWY 4T-32H-O268

Ground Level: 4988.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1275755.39	3133014.46	40.089354	-105.024606

CATHEDRAL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	15' KB @ 5003.0ft
Project:	DJ Wattenberg	MD Reference:	15' KB @ 5003.0ft
Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project DJ Wattenberg			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site S32-T2N-R68W (File/Hwy 52) NEW					
Site Position:		Northing:	1,275,973.93 ft	Latitude:	40.089950
From:	Lat/Long	Easting:	3,133,277.97 ft	Longitude:	-105.023660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well HWY 4T-32H-O268						
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.39 ft	Latitude:	40.089354
	+E/-W	0.0 ft	Easting:	3,133,014.46 ft	Longitude:	-105.024606
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,988.0 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	6/1/2015	(°)	(°)	(nT)
			8.44	66.62	52,522

Design PLAN #1					
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	15.97	

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,364.2	10.14	109.62	1,358.9	-30.1	84.3	1.00	1.00	0.00	109.62	
6,843.8	10.14	109.62	6,752.9	-354.0	993.2	0.00	0.00	0.00	0.00	
8,010.3	90.00	0.40	7,500.0	360.1	1,124.4	8.00	6.85	-9.36	-108.94	
10,250.3	90.00	0.40	7,500.0	2,600.0	1,140.0	0.00	0.00	0.00	0.00	Interp @ 7500.0 (HW)
10,498.8	90.00	2.89	7,500.0	2,848.4	1,147.1	1.00	0.00	1.00	90.00	
11,907.9	90.00	2.89	7,500.0	4,255.6	1,218.0	0.00	0.00	0.00	0.00	HWY 4T PBHL NEW

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	15' KB @ 5003.0ft
Project:	DJ Wattenberg	MD Reference:	15' KB @ 5003.0ft
Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	Start Build 1.00
400.0	0.50	109.62	400.0	-0.1	0.2	0.0	1.00	1.00	
500.0	1.50	109.62	500.0	-0.7	1.8	-0.1	1.00	1.00	
600.0	2.50	109.62	599.9	-1.8	5.1	-0.3	1.00	1.00	
700.0	3.50	109.62	699.8	-3.6	10.1	-0.7	1.00	1.00	
800.0	4.50	109.62	799.5	-5.9	16.6	-1.1	1.00	1.00	
900.0	5.50	109.62	899.2	-8.9	24.8	-1.7	1.00	1.00	
1,000.0	6.50	109.62	998.6	-12.4	34.7	-2.3	1.00	1.00	
1,100.0	7.50	109.62	1,097.9	-16.5	46.2	-3.1	1.00	1.00	
1,200.0	8.50	109.62	1,196.9	-21.1	59.3	-4.0	1.00	1.00	
1,300.0	9.50	109.62	1,295.7	-26.4	74.0	-5.0	1.00	1.00	
1,364.2	10.14	109.62	1,358.9	-30.1	84.3	-5.7	1.00	1.00	Start 5479.6 hold at 1364.2 MD
1,400.0	10.14	109.62	1,394.2	-32.2	90.3	-6.1	0.00	0.00	
1,500.0	10.14	109.62	1,492.6	-38.1	106.9	-7.2	0.00	0.00	
1,600.0	10.14	109.62	1,591.0	-44.0	123.4	-8.3	0.00	0.00	
1,700.0	10.14	109.62	1,689.5	-49.9	140.0	-9.5	0.00	0.00	
1,800.0	10.14	109.62	1,787.9	-55.8	156.6	-10.6	0.00	0.00	
1,900.0	10.14	109.62	1,886.3	-61.7	173.2	-11.7	0.00	0.00	
2,000.0	10.14	109.62	1,984.8	-67.7	189.8	-12.8	0.00	0.00	
2,100.0	10.14	109.62	2,083.2	-73.6	206.4	-13.9	0.00	0.00	
2,200.0	10.14	109.62	2,181.7	-79.5	223.0	-15.1	0.00	0.00	
2,300.0	10.14	109.62	2,280.1	-85.4	239.5	-16.2	0.00	0.00	
2,400.0	10.14	109.62	2,378.5	-91.3	256.1	-17.3	0.00	0.00	
2,500.0	10.14	109.62	2,477.0	-97.2	272.7	-18.4	0.00	0.00	
2,600.0	10.14	109.62	2,575.4	-103.1	289.3	-19.5	0.00	0.00	
2,700.0	10.14	109.62	2,673.8	-109.0	305.9	-20.7	0.00	0.00	
2,800.0	10.14	109.62	2,772.3	-115.0	322.5	-21.8	0.00	0.00	
2,900.0	10.14	109.62	2,870.7	-120.9	339.1	-22.9	0.00	0.00	
3,000.0	10.14	109.62	2,969.2	-126.8	355.6	-24.0	0.00	0.00	
3,100.0	10.14	109.62	3,067.6	-132.7	372.2	-25.1	0.00	0.00	
3,200.0	10.14	109.62	3,166.0	-138.6	388.8	-26.3	0.00	0.00	
3,300.0	10.14	109.62	3,264.5	-144.5	405.4	-27.4	0.00	0.00	
3,400.0	10.14	109.62	3,362.9	-150.4	422.0	-28.5	0.00	0.00	
3,500.0	10.14	109.62	3,461.3	-156.3	438.6	-29.6	0.00	0.00	
3,600.0	10.14	109.62	3,559.8	-162.3	455.2	-30.7	0.00	0.00	
3,700.0	10.14	109.62	3,658.2	-168.2	471.7	-31.9	0.00	0.00	
3,800.0	10.14	109.62	3,756.7	-174.1	488.3	-33.0	0.00	0.00	
3,900.0	10.14	109.62	3,855.1	-180.0	504.9	-34.1	0.00	0.00	
4,000.0	10.14	109.62	3,953.5	-185.9	521.5	-35.2	0.00	0.00	
4,100.0	10.14	109.62	4,052.0	-191.8	538.1	-36.3	0.00	0.00	
4,200.0	10.14	109.62	4,150.4	-197.7	554.7	-37.5	0.00	0.00	
4,300.0	10.14	109.62	4,248.8	-203.6	571.3	-38.6	0.00	0.00	
4,400.0	10.14	109.62	4,347.3	-209.6	587.9	-39.7	0.00	0.00	
4,500.0	10.14	109.62	4,445.7	-215.5	604.4	-40.8	0.00	0.00	
4,600.0	10.14	109.62	4,544.2	-221.4	621.0	-41.9	0.00	0.00	
4,700.0	10.14	109.62	4,642.6	-227.3	637.6	-43.1	0.00	0.00	
4,800.0	10.14	109.62	4,741.0	-233.2	654.2	-44.2	0.00	0.00	
4,900.0	10.14	109.62	4,839.5	-239.1	670.8	-45.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	15' KB @ 5003.0ft
Project:	DJ Wattenberg	MD Reference:	15' KB @ 5003.0ft
Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
5,000.0	10.14	109.62	4,937.9	-245.0	687.4	-46.4	0.00	0.00	
5,100.0	10.14	109.62	5,036.4	-250.9	704.0	-47.5	0.00	0.00	
5,200.0	10.14	109.62	5,134.8	-256.9	720.5	-48.7	0.00	0.00	
5,300.0	10.14	109.62	5,233.2	-262.8	737.1	-49.8	0.00	0.00	
5,400.0	10.14	109.62	5,331.7	-268.7	753.7	-50.9	0.00	0.00	
5,500.0	10.14	109.62	5,430.1	-274.6	770.3	-52.0	0.00	0.00	
5,600.0	10.14	109.62	5,528.5	-280.5	786.9	-53.1	0.00	0.00	
5,700.0	10.14	109.62	5,627.0	-286.4	803.5	-54.3	0.00	0.00	
5,800.0	10.14	109.62	5,725.4	-292.3	820.1	-55.4	0.00	0.00	
5,900.0	10.14	109.62	5,823.9	-298.2	836.6	-56.5	0.00	0.00	
6,000.0	10.14	109.62	5,922.3	-304.2	853.2	-57.6	0.00	0.00	
6,100.0	10.14	109.62	6,020.7	-310.1	869.8	-58.7	0.00	0.00	
6,200.0	10.14	109.62	6,119.2	-316.0	886.4	-59.9	0.00	0.00	
6,300.0	10.14	109.62	6,217.6	-321.9	903.0	-61.0	0.00	0.00	
6,400.0	10.14	109.62	6,316.0	-327.8	919.6	-62.1	0.00	0.00	
6,500.0	10.14	109.62	6,414.5	-333.7	936.2	-63.2	0.00	0.00	
6,600.0	10.14	109.62	6,512.9	-339.6	952.7	-64.3	0.00	0.00	
6,700.0	10.14	109.62	6,611.4	-345.5	969.3	-65.5	0.00	0.00	
6,800.0	10.14	109.62	6,709.8	-351.5	985.9	-66.6	0.00	0.00	
6,843.8	10.14	109.62	6,752.9	-354.0	993.2	-67.1	0.00	0.00	Start DLS 8.00 TFO -108.94
6,900.0	9.66	83.38	6,808.3	-355.2	1,002.5	-65.6	8.00	-0.86	
7,000.0	13.24	46.28	6,906.4	-346.3	1,019.2	-52.4	8.00	3.58	
7,100.0	19.60	28.72	7,002.4	-323.6	1,035.5	-26.2	8.00	6.36	
7,200.0	26.83	19.91	7,094.2	-287.6	1,051.3	12.8	8.00	7.23	
7,300.0	34.38	14.69	7,180.2	-239.0	1,066.2	63.6	8.00	7.55	
7,400.0	42.08	11.18	7,258.7	-178.7	1,079.8	125.3	8.00	7.70	
7,500.0	49.86	8.59	7,328.2	-107.9	1,092.1	196.7	8.00	7.78	
7,600.0	57.69	6.53	7,387.2	-28.0	1,102.6	276.5	8.00	7.83	
7,700.0	65.54	4.81	7,434.7	59.5	1,111.2	362.9	8.00	7.85	
7,800.0	73.42	3.28	7,469.8	152.8	1,117.8	454.5	8.00	7.87	
7,900.0	81.30	1.88	7,491.6	250.2	1,122.2	549.3	8.00	7.88	
8,000.0	89.19	0.54	7,499.9	349.8	1,124.3	645.6	8.00	7.89	
8,010.3	90.00	0.40	7,500.0	360.1	1,124.4	655.5	8.01	7.90	Start 2240.0 hold at 8010.3 MD
8,100.0	90.00	0.40	7,500.0	449.8	1,125.0	742.0	0.00	0.00	
8,200.0	90.00	0.40	7,500.0	549.8	1,125.7	838.3	0.00	0.00	
8,300.0	90.00	0.40	7,500.0	649.7	1,126.4	934.6	0.00	0.00	
8,400.0	90.00	0.40	7,500.0	749.7	1,127.1	1,030.9	0.00	0.00	
8,500.0	90.00	0.40	7,500.0	849.7	1,127.8	1,127.3	0.00	0.00	
8,600.0	90.00	0.40	7,500.0	949.7	1,128.5	1,223.6	0.00	0.00	
8,700.0	90.00	0.40	7,500.0	1,049.7	1,129.2	1,319.9	0.00	0.00	
8,800.0	90.00	0.40	7,500.0	1,149.7	1,129.9	1,416.3	0.00	0.00	
8,900.0	90.00	0.40	7,500.0	1,249.7	1,130.6	1,512.6	0.00	0.00	
9,000.0	90.00	0.40	7,500.0	1,349.7	1,131.3	1,608.9	0.00	0.00	
9,100.0	90.00	0.40	7,500.0	1,449.7	1,132.0	1,705.3	0.00	0.00	
9,200.0	90.00	0.40	7,500.0	1,549.7	1,132.7	1,801.6	0.00	0.00	
9,300.0	90.00	0.40	7,500.0	1,649.7	1,133.4	1,897.9	0.00	0.00	
9,400.0	90.00	0.40	7,500.0	1,749.7	1,134.1	1,994.2	0.00	0.00	
9,500.0	90.00	0.40	7,500.0	1,849.7	1,134.8	2,090.6	0.00	0.00	
9,600.0	90.00	0.40	7,500.0	1,949.7	1,135.5	2,186.9	0.00	0.00	
9,700.0	90.00	0.40	7,500.0	2,049.7	1,136.2	2,283.2	0.00	0.00	
9,800.0	90.00	0.40	7,500.0	2,149.7	1,136.9	2,379.6	0.00	0.00	
9,900.0	90.00	0.40	7,500.0	2,249.7	1,137.6	2,475.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	15' KB @ 5003.0ft
Project:	DJ Wattenberg	MD Reference:	15' KB @ 5003.0ft
Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	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
10,000.0	90.00	0.40	7,500.0	2,349.7	1,138.3	2,572.2	0.00	0.00	
10,100.0	90.00	0.40	7,500.0	2,449.7	1,139.0	2,668.5	0.00	0.00	
10,200.0	90.00	0.40	7,500.0	2,549.7	1,139.6	2,764.9	0.00	0.00	
10,250.3	90.00	0.40	7,500.0	2,600.0	1,140.0	2,813.3	0.00	0.00	Start DLS 1.00 TFO 90.00 - Interp @ 7500.0 (H
10,300.0	90.00	0.90	7,500.0	2,649.7	1,140.6	2,861.3	1.00	0.00	
10,400.0	90.00	1.90	7,500.0	2,749.7	1,143.0	2,958.0	1.00	0.00	
10,498.8	90.00	2.89	7,500.0	2,848.4	1,147.1	3,054.1	1.00	0.00	Start 1409.0 hold at 10498.8 MD
10,500.0	90.00	2.89	7,500.0	2,849.6	1,147.2	3,055.2	0.00	0.00	
10,600.0	90.00	2.89	7,500.0	2,949.5	1,152.2	3,152.7	0.00	0.00	
10,700.0	90.00	2.89	7,500.0	3,049.3	1,157.3	3,250.1	0.00	0.00	
10,800.0	90.00	2.89	7,500.0	3,149.2	1,162.3	3,347.5	0.00	0.00	
10,900.0	90.00	2.89	7,500.0	3,249.1	1,167.3	3,444.9	0.00	0.00	
11,000.0	90.00	2.89	7,500.0	3,349.0	1,172.4	3,542.3	0.00	0.00	
11,100.0	90.00	2.89	7,500.0	3,448.8	1,177.4	3,639.7	0.00	0.00	
11,200.0	90.00	2.89	7,500.0	3,548.7	1,182.4	3,737.1	0.00	0.00	
11,300.0	90.00	2.89	7,500.0	3,648.6	1,187.5	3,834.5	0.00	0.00	
11,400.0	90.00	2.89	7,500.0	3,748.4	1,192.5	3,931.9	0.00	0.00	
11,500.0	90.00	2.89	7,500.0	3,848.3	1,197.5	4,029.3	0.00	0.00	
11,600.0	90.00	2.89	7,500.0	3,948.2	1,202.6	4,126.7	0.00	0.00	
11,700.0	90.00	2.89	7,500.0	4,048.1	1,207.6	4,224.1	0.00	0.00	
11,800.0	90.00	2.89	7,500.0	4,147.9	1,212.6	4,321.5	0.00	0.00	
11,900.0	90.00	2.89	7,500.0	4,247.8	1,217.7	4,418.9	0.00	0.00	
11,907.9	90.00	2.89	7,500.0	4,255.6	1,218.0	4,426.5	0.00	0.00	TD at 11907.9 - HWY 4T PBHL NEW

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Interp @ 7500.0 (HWY 4 - plan hits target center - Point	0.00	0.00	7,500.0	2,600.0	1,140.0	1,278,361.47	3,134,140.51	40.096491	-105.020531
HWY 4T PBHL NEW - plan hits target center - Point	0.00	0.00	7,500.0	4,255.6	1,218.0	1,280,017.49	3,134,209.68	40.101036	-105.020252

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
350.0	350.0	0.0	0.0	Start Build 1.00
1,364.2	1,358.9	-30.1	84.3	Start 5479.6 hold at 1364.2 MD
6,843.8	6,752.9	-354.0	993.2	Start DLS 8.00 TFO -108.94
8,010.3	7,500.0	360.1	1,124.4	Start 2240.0 hold at 8010.3 MD
10,250.3	7,500.0	2,600.0	1,140.0	Start DLS 1.00 TFO 90.00
10,498.8	7,500.0	2,848.4	1,147.1	Start 1409.0 hold at 10498.8 MD
11,907.9	7,500.0	4,255.6	1,218.0	TD at 11907.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4T-32H-O268

OH

PLAN #1

Anticollision Report

09 June, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Reference	PLAN #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/9/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,907.9	PLAN #1 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	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)						
ANDERSON 21-32 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON 22-32 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 22-32 AL - ENCANA - NO SURVEYS						Out of range
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY						Out of range
ANDERSON 32-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,902.4	7,392.0	226.8	135.5	2.485	CC
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,907.9	7,392.0	226.9	135.1	2.472	ES, SF
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,800.0	7,692.3	639.6	566.8	8.791	SF
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,843.2	7,692.2	638.1	566.1	8.868	CC, ES
ANDERSON TRUST 1 - KPK WELL - NO SURVEYS						Out of range
ANDERSON TRUST 1 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 2 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,327.3	7,459.0	65.3	1.4	1.023	Level 2, CC, ES, SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,300.0	7,439.7	426.6	344.1	5.169	SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,350.6	7,438.9	423.6	341.8	5.177	CC, ES
ANDERSON TRUST C UNIT 2 - ENCANA WELL - NO SURVEYS						Out of range
BROWN 22-5 - ENCANA - SURVEYS						Out of range
BROWN 31-5 - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,476.9	1,453.0	221.1	213.7	29.942	CC
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,500.0	1,474.8	221.2	213.7	29.439	ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	7,050.0	7,167.7	916.6	878.8	24.280	SF
BROWN 5-3 - ENCANA - SURVEYS						Out of range
BROWN 5-5 - ENCANA - SURVEYS						Out of range
BROWN C UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
BROWN C UNIT 2 - ENCANA - SURVEYS						Out of range
BULTHAUP 39-6 - KERR-MCGEE WELL - SURVEYS						Out of range
BULTHAUP 40-6 - KERR-MCGEE WELL - SURVEYS						Out of range
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,202.1	5,034.0	682.7	659.4	29.312	CC, ES, SF
FEDERAL NOAA 11-32 - ENCANA - SURVEYS						Out of range
FOSTER 33-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 43-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5X - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 8-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER E UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
GENE 11-5 - KERR-MCGEE - SURVEYS						Out of range
HIGHLAND 21-5 - KPK WELL - NO SURVEYS						Out of range
HOPE 31-5 - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 - KPK WELL - NO SURVEYS						Out of range
NELSON 1 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 1 A - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 2 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 3 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 4 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 5 - VESSELS WELL - NO SURVEYS						Out of range
NELSON 5 TT - TEXAS TEA WELL - NO SURVEYS						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
NELSON 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	8,500.0	7,445.0	373.0	335.0	9.816	SF
NELSON E UNIT 2 - ENCANA - SURVEYS	8,600.0	7,447.8	359.1	323.3	10.022	ES
NELSON E UNIT 2 - ENCANA - SURVEYS	8,600.8	7,447.8	359.1	323.3	10.028	CC
PAQUETTE 13-5 - KERR-MCGEE - SURVEYS						Out of range
PAQUETTE 14-5 - KERR-MCGEE - SURVEYS						Out of range
RAY NELSON 0-4-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 12-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 13-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 14-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 23-32 - ENCANA WELL - NO SURVEYS						Out of range
RAY NELSON 24-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 2-4-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	1,131.7	1,109.7	297.7	293.6	72.323	CC, ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	1,700.0	1,611.1	362.4	355.6	53.373	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,350.5	1,337.4	14.5	9.3	2.792	CC, ES, SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	7,885.7	7,613.2	223.7	195.8	8.022	CC
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	7,900.0	7,615.7	224.1	195.5	7.827	ES
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	8,010.3	7,625.6	257.3	219.4	6.789	SF
RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 4-6-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,341.2	3,494.8	603.5	576.6	22.383	CC, ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,700.0	3,808.0	628.4	598.4	20.932	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	5,677.5	5,734.3	79.1	47.9	2.535	CC
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	5,700.0	5,755.9	79.4	47.6	2.495	ES
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	5,800.0	5,852.4	85.5	51.0	2.481	SF
RAY NELSON 7-8-32 - DD - Plan #1	6,983.6	7,008.5	266.7	238.0	9.309	CC
RAY NELSON 7-8-32 - DD - Plan #1	7,000.0	7,024.5	266.8	237.8	9.209	ES
RAY NELSON 7-8-32 - DD - Plan #1	7,150.0	7,167.0	285.5	252.7	8.684	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,631.9	7,657.7	743.1	681.5	12.068	CC
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,700.0	7,657.7	746.2	680.6	11.371	ES
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,900.0	7,657.7	790.0	715.2	10.561	SF
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,393.6	7,567.6	754.7	721.2	22.511	CC
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,400.0	7,567.6	754.7	721.1	22.409	ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,800.0	7,567.6	857.2	811.2	18.634	SF
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	329.0			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	7,750.0	7,749.1	990.3	954.5	27.675	SF
SCHRINER 11-5 - KERR-MCGEE - SURVEYS						Out of range
SCHRINER 12-5 - KERR-MCGEE - SURVEYS						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	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) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	190.0	189.6	533.643	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	190.0	189.3	292.653	ES
HWY 4A-32H-O268 - OH - PLAN #1	4,000.0	3,892.6	991.0	977.3	72.395	SF
HWY 4B-32H-O268 - OH - PLAN #1	216.3	217.3	180.2	179.5	255.755	CC
HWY 4B-32H-O268 - OH - PLAN #1	300.0	300.0	180.2	179.2	181.124	ES
HWY 4B-32H-O268 - OH - PLAN #1	4,000.0	3,915.5	895.2	881.5	65.187	SF
HWY 4C-32H-O268 - OH - PLAN #1	216.3	217.3	170.1	169.4	241.458	CC
HWY 4C-32H-O268 - OH - PLAN #1	300.0	300.0	170.1	169.1	170.999	ES
HWY 4C-32H-O268 - OH - PLAN #1	4,900.0	4,817.3	985.2	968.3	58.382	SF
HWY 4D-32H-O268 - OH - PLAN #1	350.0	351.0	160.0	158.9	136.655	CC, ES
HWY 4D-32H-O268 - OH - PLAN #1	7,550.0	7,414.5	866.2	839.8	32.773	SF
HWY 4E-32H-O268 - OH - PLAN #1	350.0	351.0	150.2	149.1	128.294	CC, ES
HWY 4E-32H-O268 - OH - PLAN #1	7,350.0	7,338.8	658.1	630.9	24.207	SF
HWY 4F-32H-O268 - OH - PLAN #1	116.3	117.3	140.2	139.8	394.355	CC
HWY 4F-32H-O268 - OH - PLAN #1	350.0	350.9	140.2	139.0	119.357	ES
HWY 4F-32H-O268 - OH - PLAN #1	7,600.0	7,455.6	491.3	463.6	17.738	SF
HWY 4G-32H-O268 - OH - PLAN #1	350.0	351.0	130.1	128.9	111.092	CC
HWY 4G-32H-O268 - OH - PLAN #1	7,350.0	7,392.8	149.4	122.2	5.502	ES
HWY 4G-32H-O268 - OH - PLAN #1	7,400.0	7,395.7	159.7	129.8	5.339	SF
HWY 4H-32H-O268 - OH - Plan #1	7,529.7	7,479.8	28.2	1.8	1.069	Level 2, CC
HWY 4H-32H-O268 - OH - Plan #1	7,550.0	7,482.7	34.7	0.1	1.003	Level 2, ES, SF
HWY 4I-32H-O268 - OH - PLAN #1	350.0	350.0	110.2	109.1	94.270	CC, ES
HWY 4I-32H-O268 - OH - PLAN #1	7,350.0	7,363.9	168.7	130.4	4.401	SF
HWY 4J-32H-O268 - OH - PLAN #1	300.0	300.0	100.2	99.2	100.684	CC
HWY 4J-32H-O268 - OH - PLAN #1	350.0	350.0	100.2	99.0	85.559	ES
HWY 4J-32H-O268 - OH - PLAN #1	2,500.0	2,519.2	171.0	155.9	11.327	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	90.1	89.4	139.510	CC
HWY 4K-32H-O268 - OH - PLAN #1	350.0	349.9	90.2	89.0	76.228	ES
HWY 4K-32H-O268 - OH - PLAN #1	2,000.0	2,016.7	137.6	126.1	11.977	SF
HWY 4L-32H-O268 - OH - PLAN #1	350.0	350.0	80.0	78.9	68.430	CC, ES
HWY 4L-32H-O268 - OH - PLAN #1	900.0	897.2	106.7	103.6	34.514	SF
HWY 4M-32H-O268 - OH - PLAN #1	350.0	350.0	70.2	69.1	60.056	CC, ES
HWY 4M-32H-O268 - OH - PLAN #1	900.0	898.2	96.0	92.9	31.063	SF
HWY 4N-32H-O268 - OH - PLAN #1	350.0	350.0	60.2	59.0	51.442	CC, ES
HWY 4N-32H-O268 - OH - PLAN #1	900.0	898.5	86.4	83.3	27.877	SF
HWY 4O-32H-O268 - OH - PLAN #1	350.0	350.0	50.1	48.9	42.828	CC, ES
HWY 4O-32H-O268 - OH - PLAN #1	1,000.0	1,000.9	79.4	75.9	22.818	SF
HWY 4P-32H-O268 - OH - PLAN #1	350.0	350.0	40.0	38.8	34.215	CC, ES
HWY 4P-32H-O268 - OH - PLAN #1	11,907.9	11,802.6	989.7	835.5	6.417	SF
HWY 4Q-32H-O268 - OH - PLAN #1	350.0	350.0	30.2	29.0	25.840	CC, ES
HWY 4Q-32H-O268 - OH - PLAN #1	11,907.9	11,834.2	659.9	505.3	4.268	SF
HWY 4R-32H-O268 - OH - PLAN #1	350.0	350.0	20.1	19.0	17.227	CC, ES
HWY 4R-32H-O268 - OH - PLAN #1	11,887.0	11,857.5	494.5	338.3	3.166	SF
HWY 4S-32H-O268 - OH - PLAN #1	350.0	350.0	10.1	8.9	8.614	CC, ES
HWY 4S-32H-O268 - OH - PLAN #1	11,907.9	11,875.4	330.0	175.0	2.129	SF
HWY 4U-32H-O268 - OH - PLAN #1	300.0	300.0	9.8	8.8	9.851	CC, ES
HWY 4U-32H-O268 - OH - PLAN #1	11,907.9	11,956.7	165.0	9.6	1.062	Level 2, SF
HWY 4V-32H-O268 - OH - PLAN #1	203.4	203.4	19.9	19.2	30.220	CC
HWY 4V-32H-O268 - OH - PLAN #1	300.0	299.8	20.1	19.1	20.191	ES
HWY 4V-32H-O268 - OH - PLAN #1	11,907.9	11,988.8	330.0	174.6	2.124	SF
HWY 4W-32H-O268 - OH - PLAN #1	200.0	200.0	29.9	29.3	46.362	CC, ES
HWY 4W-32H-O268 - OH - PLAN #1	11,907.9	11,834.9	663.8	509.2	4.294	SF

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 41-32 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8170-Geolink MWD														
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		
11,000.0	7,500.0	7,392.0	7,392.0	65.3	12.9	90.00	4,238.8	1,444.3	930.5	898.7	31.76	29.299		
11,100.0	7,500.0	7,392.0	7,392.0	66.9	12.9	90.00	4,238.8	1,444.3	833.9	802.1	31.73	26.282		
11,200.0	7,500.0	7,392.0	7,392.0	68.6	12.9	90.00	4,238.8	1,444.3	738.1	706.1	32.05	23.030		
11,300.0	7,500.0	7,392.0	7,392.0	70.2	12.9	90.00	4,238.8	1,444.3	643.7	610.6	33.05	19.475		
11,400.0	7,500.0	7,392.0	7,392.0	71.9	12.9	90.00	4,238.8	1,444.3	551.2	516.0	35.28	15.625		
11,500.0	7,500.0	7,392.0	7,392.0	73.6	12.9	90.00	4,238.8	1,444.3	461.9	422.4	39.57	11.673		
11,600.0	7,500.0	7,392.0	7,392.0	75.3	12.9	90.00	4,238.8	1,444.3	378.0	330.9	47.14	8.019		
11,700.0	7,500.0	7,392.0	7,392.0	76.9	12.9	90.00	4,238.8	1,444.3	304.0	244.6	59.37	5.120		
11,800.0	7,500.0	7,392.0	7,392.0	78.6	12.9	90.00	4,238.8	1,444.3	248.9	172.6	76.23	3.265		
11,902.4	7,500.0	7,392.0	7,392.0	80.4	12.9	90.00	4,238.8	1,444.3	226.8	135.5	91.28	2.485 CC		
11,907.9	7,500.0	7,392.0	7,392.0	80.4	12.9	90.00	4,238.8	1,444.3	226.9	135.1	91.76	2.472 ES, SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 6-4-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 71-Geolink MWD														
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	
9,100.0	7,500.0	7,693.6	7,450.4	36.2	30.4	-89.14	2,197.4	499.2	979.6	917.8	61.76	15.862		
9,200.0	7,500.0	7,693.4	7,450.2	37.5	30.4	-89.12	2,197.4	499.2	906.0	841.8	64.20	14.113		
9,300.0	7,500.0	7,693.2	7,450.0	38.9	30.4	-89.11	2,197.4	499.2	838.0	771.3	66.73	12.557		
9,400.0	7,500.0	7,693.0	7,449.8	40.3	30.4	-89.09	2,197.4	499.2	776.9	707.7	69.22	11.224		
9,500.0	7,500.0	7,692.8	7,449.7	41.7	30.4	-89.07	2,197.4	499.2	724.5	653.1	71.41	10.146		
9,600.0	7,500.0	7,692.7	7,449.5	43.2	30.4	-89.05	2,197.4	499.2	682.9	609.9	72.99	9.356		
9,700.0	7,500.0	7,692.5	7,449.3	44.7	30.4	-89.04	2,197.4	499.2	654.0	580.4	73.55	8.892		
9,800.0	7,500.0	7,692.3	7,449.1	46.2	30.4	-89.02	2,197.4	499.2	639.6	566.8	72.75	8.791 SF		
9,843.2	7,500.0	7,692.2	7,449.0	46.8	30.4	-89.01	2,197.4	499.2	638.1	566.1	71.95	8.868 CC, ES		
9,900.0	7,500.0	7,692.1	7,448.9	47.7	30.4	-89.00	2,197.4	499.2	640.6	570.1	70.50	9.087		
10,000.0	7,500.0	7,691.9	7,448.7	49.2	30.4	-88.99	2,197.4	499.2	657.1	590.1	67.00	9.807		
10,100.0	7,500.0	7,691.7	7,448.6	50.7	30.4	-88.97	2,197.4	499.2	687.8	625.1	62.71	10.968		
10,200.0	7,500.0	7,691.6	7,448.4	52.3	30.4	-88.96	2,197.4	499.2	731.0	672.9	58.16	12.570		
10,250.3	7,500.0	7,691.5	7,448.3	53.1	30.4	-88.95	2,197.4	499.2	756.9	701.0	55.91	13.537		
10,300.0	7,500.0	7,691.4	7,448.2	53.9	30.4	-88.93	2,197.4	499.2	784.9	731.1	53.77	14.596		
10,400.0	7,500.0	7,691.2	7,448.0	55.5	30.4	-88.90	2,197.4	499.2	848.3	798.4	49.86	17.015		
10,498.8	7,500.0	7,690.9	7,447.7	57.1	30.4	-88.86	2,197.4	499.2	918.6	872.0	46.57	19.725		
10,500.0	7,500.0	7,690.9	7,447.7	57.1	30.4	-88.86	2,197.4	499.2	919.4	872.9	46.53	19.758		
10,600.0	7,500.0	7,690.7	7,447.5	58.7	30.4	-88.83	2,197.4	499.2	996.1	952.3	43.80	22.743		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 7765-Geolink MWD														
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	
9,400.0	7,500.0	7,459.0	7,459.0	40.3	13.0	90.00	2,675.6	1,206.3	928.8	891.8	36.97	25.123		
9,500.0	7,500.0	7,459.0	7,459.0	41.7	13.0	90.00	2,675.6	1,206.3	829.0	792.3	36.77	22.546		
9,600.0	7,500.0	7,459.0	7,459.0	43.2	13.0	90.00	2,675.6	1,206.3	729.4	692.9	36.50	19.985		
9,700.0	7,500.0	7,459.0	7,459.0	44.7	13.0	90.00	2,675.6	1,206.3	629.9	593.8	36.12	17.440		
9,800.0	7,500.0	7,459.0	7,459.0	46.2	13.0	90.00	2,675.6	1,206.3	530.5	494.9	35.57	14.914		
9,900.0	7,500.0	7,459.0	7,459.0	47.7	13.0	90.00	2,675.6	1,206.3	431.5	396.7	34.77	12.408		
10,000.0	7,500.0	7,459.0	7,459.0	49.2	13.0	90.00	2,675.6	1,206.3	333.0	299.4	33.55	9.924		
10,100.0	7,500.0	7,459.0	7,459.0	50.7	13.0	90.00	2,675.6	1,206.3	235.8	204.1	31.72	7.433		
10,200.0	7,500.0	7,459.0	7,459.0	52.3	13.0	90.00	2,675.6	1,206.3	142.5	111.7	30.86	4.618		
10,250.3	7,500.0	7,459.0	7,459.0	53.1	13.0	90.00	2,675.6	1,206.3	100.6	64.4	36.23	2.776		
10,300.0	7,500.0	7,459.0	7,459.0	53.9	13.0	90.00	2,675.6	1,206.3	70.7	17.5	53.20	1.329	Level 3	
10,327.3	7,500.0	7,459.0	7,459.0	54.3	13.0	90.00	2,675.6	1,206.3	65.3	1.4	63.83	1.023	Level 2, CC, ES, SF	
10,400.0	7,500.0	7,459.0	7,459.0	55.5	13.0	90.00	2,675.6	1,206.3	97.4	34.3	63.14	1.542		
10,498.8	7,500.0	7,459.0	7,459.0	57.1	13.0	90.00	2,675.6	1,206.3	182.6	129.9	52.75	3.462		
10,500.0	7,500.0	7,459.0	7,459.0	57.1	13.0	90.00	2,675.6	1,206.3	183.7	131.0	52.67	3.488		
10,600.0	7,500.0	7,459.0	7,459.0	58.7	13.0	90.00	2,675.6	1,206.3	279.1	231.0	48.09	5.803		
10,700.0	7,500.0	7,459.0	7,459.0	60.3	13.0	90.00	2,675.6	1,206.3	376.9	331.0	45.82	8.224		
10,800.0	7,500.0	7,459.0	7,459.0	62.0	13.0	90.00	2,675.6	1,206.3	475.6	431.1	44.52	10.682		
10,900.0	7,500.0	7,459.0	7,459.0	63.6	13.0	90.00	2,675.6	1,206.3	574.7	531.0	43.70	13.151		
11,000.0	7,500.0	7,459.0	7,459.0	65.3	13.0	90.00	2,675.6	1,206.3	674.1	631.0	43.15	15.621		
11,100.0	7,500.0	7,459.0	7,459.0	66.9	13.0	90.00	2,675.6	1,206.3	773.7	730.9	42.78	18.087		
11,200.0	7,500.0	7,459.0	7,459.0	68.6	13.0	90.00	2,675.6	1,206.3	873.4	830.8	42.51	20.546		
11,300.0	7,500.0	7,459.0	7,459.0	70.2	13.0	90.00	2,675.6	1,206.3	973.1	930.8	42.31	22.997		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 100-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			
10,498.8	7,500.0	7,453.2	7,451.5	57.1	13.1	-91.16	3,720.2	766.8	951.2	895.5	55.73	17.068			
10,500.0	7,500.0	7,453.2	7,451.5	57.1	13.1	-91.15	3,720.2	766.8	950.2	894.4	55.76	17.041			
10,600.0	7,500.0	7,451.3	7,449.7	58.7	13.1	-90.90	3,720.2	766.8	861.8	803.5	58.34	14.773			
10,700.0	7,500.0	7,449.5	7,447.9	60.3	13.1	-90.66	3,720.2	766.8	776.3	714.9	61.37	12.649			
10,800.0	7,500.0	7,447.8	7,446.1	62.0	13.1	-90.42	3,720.3	766.8	694.7	629.7	64.92	10.699			
10,900.0	7,500.0	7,446.1	7,444.4	63.6	13.1	-90.19	3,720.3	766.9	618.4	549.4	69.01	8.961			
11,000.0	7,500.0	7,444.4	7,442.8	65.3	13.1	-89.97	3,720.3	766.9	549.9	476.4	73.50	7.481			
11,100.0	7,500.0	7,442.8	7,441.1	66.9	13.1	-89.75	3,720.4	766.9	492.2	414.2	77.96	6.313			
11,200.0	7,500.0	7,441.2	7,439.6	68.6	13.1	-89.53	3,720.4	766.9	449.6	368.2	81.43	5.521			
11,300.0	7,500.0	7,439.7	7,438.0	70.2	13.1	-89.32	3,720.4	767.0	426.6	344.1	82.53	5.169 SF			
11,350.6	7,500.0	7,438.9	7,437.2	71.1	13.1	-89.22	3,720.4	767.0	423.6	341.8	81.82	5.177 CC, ES			
11,400.0	7,500.0	7,438.1	7,436.5	71.9	13.1	-89.12	3,720.4	767.0	426.5	346.2	80.27	5.313			
11,500.0	7,500.0	7,436.7	7,435.0	73.6	13.1	-88.92	3,720.4	767.0	449.2	374.2	75.02	5.988			
11,600.0	7,500.0	7,435.2	7,433.6	75.3	13.1	-88.73	3,720.5	767.0	491.6	423.3	68.31	7.196			
11,700.0	7,500.0	7,433.8	7,432.2	76.9	13.1	-88.54	3,720.5	767.0	549.1	487.5	61.61	8.912			
11,800.0	7,500.0	7,432.4	7,430.8	78.6	13.1	-88.35	3,720.5	767.1	617.5	561.8	55.74	11.079			
11,907.9	7,500.0	7,431.0	7,429.3	80.4	13.1	-88.15	3,720.5	767.1	699.9	649.4	50.57	13.840			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 41-Geolink MWD														
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	51.38	202.5	253.5	324.6					
100.0	100.0	88.7	88.7	0.1	0.1	51.45	202.5	254.1	324.9	324.6	0.28	1,172.307		
200.0	200.0	188.3	188.3	0.3	0.3	51.57	202.4	255.1	325.7	325.1	0.63	520.164		
300.0	300.0	289.6	289.6	0.5	0.5	51.72	202.2	256.2	326.4	325.4	0.98	333.698		
350.0	350.0	344.7	344.7	0.6	0.6	51.84	201.5	256.5	326.2	325.0	1.16	280.587		
400.0	400.0	399.6	399.5	0.7	0.7	-57.59	199.9	256.5	325.1	323.8	1.35	241.000		
500.0	500.0	507.4	507.2	0.8	0.9	-57.01	193.2	256.2	320.3	318.5	1.73	185.120		
600.0	599.9	615.9	614.9	1.0	1.2	-55.84	181.1	256.7	312.0	309.8	2.15	144.986		
700.0	699.8	719.9	717.6	1.2	1.5	-54.06	164.2	257.6	300.3	297.7	2.62	114.504		
800.0	799.5	814.5	810.6	1.4	1.8	-52.18	147.3	259.7	288.0	284.9	3.11	92.644		
900.0	899.2	912.1	906.4	1.6	2.1	-50.03	129.1	263.5	276.1	272.5	3.65	75.712		
1,000.0	998.6	1,012.8	1,004.8	1.9	2.5	-47.46	108.5	268.2	263.4	259.2	4.26	61.900		
1,100.0	1,097.9	1,110.1	1,099.0	2.1	3.0	-43.94	84.5	274.4	249.8	244.9	4.94	50.559		
1,200.0	1,196.9	1,201.2	1,186.4	2.4	3.4	-39.93	60.3	282.5	237.7	232.0	5.63	42.225		
1,300.0	1,295.7	1,292.2	1,273.2	2.7	3.9	-35.43	35.6	293.4	228.4	222.1	6.32	36.154		
1,364.2	1,358.9	1,350.5	1,328.8	2.9	4.2	-32.43	19.8	301.9	224.2	217.5	6.73	33.309		
1,400.0	1,394.2	1,383.1	1,359.8	3.0	4.4	-30.76	11.3	307.0	222.5	215.6	6.95	32.018		
1,476.9	1,469.8	1,453.0	1,426.2	3.3	4.8	-27.12	-6.8	319.3	221.1	213.7	7.38	29.942 CC		
1,500.0	1,492.6	1,474.8	1,446.9	3.4	4.9	-25.97	-12.5	323.5	221.2	213.7	7.51	29.439 ES		
1,600.0	1,591.0	1,569.8	1,536.5	3.7	5.4	-20.86	-37.5	342.2	223.5	215.5	8.01	27.909		
1,700.0	1,689.5	1,663.6	1,624.9	4.0	6.0	-16.15	-61.6	362.1	229.2	220.8	8.40	27.268		
1,800.0	1,787.9	1,756.0	1,711.5	4.4	6.6	-11.64	-85.9	383.5	238.6	229.9	8.72	27.353		
1,900.0	1,886.3	1,852.5	1,800.9	4.7	7.2	-6.86	-113.5	407.0	251.3	242.3	9.01	27.881		
2,000.0	1,984.8	1,949.3	1,890.5	5.1	7.9	-2.19	-142.5	429.5	265.2	256.0	9.22	28.753		
2,100.0	2,083.2	2,049.3	1,983.6	5.4	8.5	1.55	-169.8	453.9	280.6	271.1	9.44	29.709		
2,200.0	2,181.7	2,143.4	2,071.4	5.8	9.1	4.55	-194.5	476.8	296.5	286.8	9.63	30.775		
2,300.0	2,280.1	2,241.9	2,163.1	6.1	9.7	7.40	-221.0	501.3	313.9	304.1	9.83	31.929		
2,400.0	2,378.5	2,341.3	2,256.0	6.5	10.4	9.70	-246.0	526.2	331.3	321.2	10.05	32.947		
2,500.0	2,477.0	2,440.0	2,348.2	6.8	11.0	11.88	-271.4	550.7	349.2	338.9	10.29	33.947		
2,600.0	2,575.4	2,548.4	2,450.1	7.2	11.7	14.27	-299.4	574.7	365.4	354.8	10.58	34.519		
2,700.0	2,673.8	2,645.4	2,541.7	7.5	12.3	16.40	-324.5	594.4	380.5	369.7	10.81	35.204		
2,800.0	2,772.3	2,729.5	2,620.6	7.9	12.8	18.13	-347.3	612.5	398.1	387.1	10.98	36.245		
2,900.0	2,870.7	2,814.9	2,699.4	8.2	13.5	19.99	-373.6	632.2	419.7	408.5	11.17	37.584		
3,000.0	2,969.2	2,907.3	2,784.1	8.6	14.1	21.81	-403.0	654.5	443.4	432.0	11.42	38.834		
3,100.0	3,067.6	3,012.4	2,880.7	8.9	14.9	23.57	-435.7	680.2	467.3	455.5	11.78	39.648		
3,200.0	3,166.0	3,118.8	2,979.4	9.3	15.6	25.29	-467.7	703.9	489.0	476.9	12.18	40.158		
3,300.0	3,264.5	3,212.7	3,066.6	9.6	16.2	26.71	-495.7	724.1	510.4	497.9	12.51	40.794		
3,400.0	3,362.9	3,296.8	3,144.3	10.0	16.8	28.01	-522.5	742.2	533.8	521.0	12.81	41.653		
3,500.0	3,461.3	3,389.8	3,229.4	10.3	17.5	29.46	-554.1	762.3	559.2	546.0	13.20	42.373		
3,600.0	3,559.8	3,513.2	3,343.7	10.7	18.3	31.09	-592.7	787.9	582.2	568.4	13.78	42.248		
3,700.0	3,658.2	3,647.7	3,470.7	11.1	19.1	32.52	-629.0	813.6	600.9	586.5	14.41	41.709		
3,800.0	3,756.7	3,815.9	3,633.8	11.4	19.8	34.48	-663.9	834.3	610.4	595.3	15.14	40.319		
3,900.0	3,855.1	3,911.6	3,727.7	11.8	20.2	35.58	-680.0	843.1	615.1	599.5	15.63	39.342		
4,000.0	3,953.5	4,020.6	3,834.8	12.1	20.6	36.64	-696.9	854.5	619.7	603.5	16.18	38.313		
4,100.0	4,052.0	4,127.5	3,940.2	12.5	20.9	37.44	-710.4	866.5	622.4	605.7	16.71	37.253		
4,200.0	4,150.4	4,213.2	4,024.5	12.8	21.2	38.03	-721.4	876.8	625.8	608.6	17.20	36.385		
4,300.0	4,248.8	4,297.2	4,106.8	13.2	21.6	38.65	-734.4	887.7	632.1	614.4	17.70	35.711		
4,400.0	4,347.3	4,378.6	4,186.1	13.5	21.9	39.23	-748.5	899.3	640.9	622.7	18.19	35.222		
4,500.0	4,445.7	4,474.1	4,278.5	13.9	22.4	39.91	-767.4	914.0	652.3	633.5	18.75	34.784		
4,600.0	4,544.2	4,589.8	4,391.0	14.3	22.9	40.57	-787.7	932.1	662.0	642.7	19.37	34.170		
4,700.0	4,642.6	4,665.1	4,464.2	14.6	23.3	41.05	-801.5	943.4	672.3	652.4	19.87	33.837		
4,800.0	4,741.0	4,744.1	4,540.2	15.0	23.7	41.57	-818.6	956.2	686.1	665.7	20.38	33.669		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 41-Geolink MWD														
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	
4,900.0	4,839.5	4,819.7	4,612.4	15.3	24.1	41.98	-836.4	970.2	702.8	681.9	20.85	33.707		
5,000.0	4,937.9	4,897.3	4,685.6	15.7	24.6	42.37	-856.7	985.9	722.9	701.5	21.31	33.915		
5,100.0	5,036.3	4,997.6	4,779.8	16.0	25.2	43.02	-885.5	1,004.8	744.7	722.7	21.95	33.931		
5,200.0	5,134.8	5,101.1	4,877.6	16.4	25.9	43.81	-914.7	1,021.8	764.9	742.3	22.64	33.793		
5,300.0	5,233.2	5,213.4	4,984.1	16.7	26.5	44.70	-946.0	1,038.8	784.5	761.1	23.41	33.518		
5,400.0	5,331.7	5,309.1	5,075.1	17.1	27.1	45.34	-971.2	1,054.0	803.1	779.1	24.06	33.379		
5,500.0	5,430.1	5,395.1	5,156.5	17.5	27.6	45.81	-994.6	1,069.2	823.3	798.6	24.64	33.417		
5,600.0	5,528.5	5,534.7	5,289.8	17.8	28.3	46.57	-1,029.1	1,091.7	840.3	814.8	25.53	32.916		
5,700.0	5,627.0	5,668.2	5,418.7	18.2	28.9	47.35	-1,058.4	1,110.4	854.3	827.9	26.37	32.397		
5,800.0	5,725.4	5,786.9	5,534.6	18.5	29.4	48.14	-1,080.6	1,123.6	864.1	836.9	27.16	31.816		
5,900.0	5,823.8	5,889.9	5,635.3	18.9	29.8	48.92	-1,100.1	1,133.1	873.5	845.6	27.91	31.299		
6,000.0	5,922.3	5,992.0	5,735.3	19.2	30.2	49.90	-1,119.5	1,139.1	882.1	853.4	28.71	30.724		
6,100.0	6,020.7	6,079.0	5,820.4	19.6	30.5	50.84	-1,137.3	1,142.5	891.8	862.3	29.49	30.239		
6,200.0	6,119.2	6,225.7	5,964.5	20.0	31.0	52.29	-1,164.0	1,148.9	899.5	869.0	30.58	29.420		
6,300.0	6,217.6	6,379.9	6,117.3	20.3	31.4	53.44	-1,181.9	1,158.4	901.8	870.3	31.50	28.625		
6,400.0	6,316.0	6,481.6	6,218.5	20.7	31.6	54.22	-1,190.8	1,163.3	901.1	868.8	32.32	27.880		
6,448.9	6,364.2	6,526.5	6,263.1	20.8	31.7	54.52	-1,194.6	1,166.2	901.0	868.3	32.70	27.553		
6,500.0	6,414.5	6,570.9	6,307.2	21.0	31.8	54.79	-1,198.5	1,169.6	901.2	868.1	33.08	27.238		
6,600.0	6,512.9	6,704.7	6,440.1	21.4	32.1	55.49	-1,208.7	1,180.9	900.8	866.9	33.87	26.592		
6,700.0	6,611.3	6,804.6	6,539.6	21.7	32.3	55.99	-1,213.6	1,189.2	897.6	863.0	34.62	25.930		
6,800.0	6,709.8	6,895.7	6,630.4	22.1	32.5	56.53	-1,219.1	1,195.7	895.4	860.0	35.38	25.305		
6,843.8	6,752.9	6,940.2	6,674.6	22.3	32.6	56.83	-1,222.0	1,198.4	894.6	858.9	35.74	25.034		
6,850.0	6,759.0	6,946.5	6,680.9	22.3	32.6	59.55	-1,222.4	1,198.8	894.5	858.7	35.79	24.995		
6,858.4	6,767.2	6,955.4	6,689.7	22.3	32.7	63.32	-1,223.0	1,199.3	894.4	858.6	35.86	24.944		
6,900.0	6,808.3	7,004.4	6,738.6	22.4	32.7	83.16	-1,226.0	1,201.9	895.5	859.2	36.23	24.717		
6,950.0	6,857.5	7,061.4	6,795.5	22.6	32.8	104.78	-1,229.1	1,204.6	899.4	862.7	36.71	24.499		
7,000.0	6,906.4	7,115.7	6,849.6	22.7	32.9	120.45	-1,231.7	1,207.0	906.4	869.2	37.22	24.352		
7,050.0	6,954.8	7,167.7	6,901.5	22.8	33.0	130.96	-1,233.9	1,209.2	916.6	878.8	37.75	24.280 SF		
7,100.0	7,002.3	7,218.3	6,952.1	22.9	33.1	138.10	-1,235.9	1,211.2	930.0	891.7	38.30	24.283		
7,150.0	7,048.9	7,267.2	7,000.9	23.0	33.2	143.15	-1,237.7	1,213.1	946.5	907.7	38.85	24.364		
7,200.0	7,094.2	7,314.5	7,048.2	23.1	33.2	146.87	-1,239.3	1,214.8	966.3	926.9	39.40	24.522		
7,250.0	7,138.1	7,359.6	7,093.2	23.1	33.3	149.68	-1,240.7	1,216.3	989.1	949.2	39.95	24.757		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5034-Geolink MWD														
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	
2,700.0	2,673.8	2,637.8	2,637.8	7.5	4.6	-35.29	151.9	1,263.5	992.5	982.2	10.36	95.773		
2,800.0	2,772.3	2,736.3	2,736.3	7.9	4.8	-35.88	151.9	1,263.5	978.2	967.3	10.81	90.473		
2,900.0	2,870.7	2,834.7	2,834.7	8.2	4.9	-36.49	151.9	1,263.5	963.9	952.6	11.26	85.566		
3,000.0	2,969.2	2,933.2	2,933.2	8.6	5.1	-37.12	151.9	1,263.5	949.7	938.0	11.72	81.011		
3,100.0	3,067.6	3,031.6	3,031.6	8.9	5.3	-37.77	151.9	1,263.5	935.6	923.4	12.19	76.776		
3,200.0	3,166.0	3,130.0	3,130.0	9.3	5.5	-38.43	151.9	1,263.5	921.7	909.0	12.66	72.828		
3,300.0	3,264.5	3,228.5	3,228.5	9.6	5.6	-39.12	151.9	1,263.5	907.9	894.7	13.13	69.142		
3,400.0	3,362.9	3,326.9	3,326.9	10.0	5.8	-39.83	151.9	1,263.5	894.2	880.6	13.61	65.695		
3,500.0	3,461.3	3,425.3	3,425.3	10.3	6.0	-40.56	151.9	1,263.5	880.7	866.6	14.10	62.465		
3,600.0	3,559.8	3,523.8	3,523.8	10.7	6.2	-41.31	151.9	1,263.5	867.3	852.7	14.59	59.435		
3,700.0	3,658.2	3,622.2	3,622.2	11.1	6.3	-42.08	151.9	1,263.5	854.0	838.9	15.09	56.590		
3,800.0	3,756.7	3,720.7	3,720.7	11.4	6.5	-42.88	151.9	1,263.5	840.9	825.3	15.60	53.914		
3,900.0	3,855.1	3,819.1	3,819.1	11.8	6.7	-43.70	151.9	1,263.5	828.0	811.9	16.11	51.394		
4,000.0	3,953.5	3,917.5	3,917.5	12.1	6.8	-44.55	151.9	1,263.5	815.3	798.7	16.63	49.021		
4,100.0	4,052.0	4,016.0	4,016.0	12.5	7.0	-45.43	151.9	1,263.5	802.7	785.6	17.16	46.782		
4,200.0	4,150.4	4,114.4	4,114.4	12.8	7.2	-46.33	151.9	1,263.5	790.4	772.7	17.69	44.669		
4,300.0	4,248.8	4,212.8	4,212.8	13.2	7.4	-47.26	151.9	1,263.5	778.2	760.0	18.24	42.674		
4,400.0	4,347.3	4,311.3	4,311.3	13.5	7.5	-48.22	151.9	1,263.5	766.3	747.5	18.79	40.790		
4,500.0	4,445.7	4,409.7	4,409.7	13.9	7.7	-49.20	151.9	1,263.5	754.6	735.2	19.34	39.008		
4,600.0	4,544.2	4,508.2	4,508.2	14.3	7.9	-50.22	151.9	1,263.5	743.1	723.2	19.91	37.324		
4,700.0	4,642.6	4,606.6	4,606.6	14.6	8.0	-51.27	151.9	1,263.5	731.8	711.3	20.48	35.731		
4,800.0	4,741.0	4,705.0	4,705.0	15.0	8.2	-52.35	151.9	1,263.5	720.8	699.8	21.06	34.225		
4,900.0	4,839.5	4,803.5	4,803.5	15.3	8.4	-53.47	151.9	1,263.5	710.1	688.5	21.65	32.801		
5,000.0	4,937.9	4,901.9	4,901.9	15.7	8.6	-54.61	151.9	1,263.5	699.7	677.4	22.24	31.454		
5,100.0	5,036.3	5,000.3	5,000.3	16.0	8.7	-55.79	151.9	1,263.5	689.5	666.7	22.85	30.181		
5,200.0	5,134.8	5,034.0	5,034.0	16.4	8.8	-56.21	151.9	1,263.5	682.7	659.4	23.29	29.319		
5,202.1	5,136.9	5,034.0	5,034.0	16.4	8.8	-56.21	151.9	1,263.5	682.7	659.4	23.29	29.312	CC, ES, SF	
5,300.0	5,233.2	5,034.0	5,034.0	16.7	8.8	-56.21	151.9	1,263.5	689.7	666.4	23.32	29.578		
5,400.0	5,331.7	5,034.0	5,034.0	17.1	8.8	-56.21	151.9	1,263.5	710.8	687.8	22.99	30.921		
5,500.0	5,430.1	5,034.0	5,034.0	17.5	8.8	-56.21	151.9	1,263.5	744.9	722.5	22.38	33.277		
5,600.0	5,528.5	5,034.0	5,034.0	17.8	8.8	-56.21	151.9	1,263.5	790.2	768.6	21.62	36.557		
5,700.0	5,627.0	5,034.0	5,034.0	18.2	8.8	-56.21	151.9	1,263.5	845.0	824.2	20.78	40.659		
5,800.0	5,725.4	5,034.0	5,034.0	18.5	8.8	-56.21	151.9	1,263.5	907.5	887.6	19.96	45.472		
5,900.0	5,823.8	5,034.0	5,034.0	18.9	8.8	-56.21	151.9	1,263.5	976.3	957.1	19.18	50.889		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 2 - ENCANA - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 100-Geolink MWD														
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	
7,650.0	7,412.5	7,335.2	7,333.5	23.8	13.0	-43.10	949.8	771.7	993.8	958.0	35.81	27.752		
7,700.0	7,434.7	7,357.7	7,355.9	23.9	13.1	-47.06	950.4	771.3	954.2	918.1	36.08	26.450		
7,750.0	7,453.9	7,377.3	7,375.5	24.1	13.1	-51.81	951.0	770.9	913.3	877.0	36.34	25.130		
7,800.0	7,469.8	7,394.0	7,392.1	24.2	13.1	-57.37	951.5	770.5	871.5	834.8	36.62	23.801		
7,850.0	7,482.4	7,408.0	7,406.2	24.4	13.2	-63.73	951.9	770.2	828.9	792.0	36.89	22.468		
7,900.0	7,491.6	7,419.0	7,417.2	24.7	13.2	-70.68	952.2	770.0	785.9	748.7	37.17	21.142		
7,950.0	7,497.5	7,426.6	7,424.7	24.9	13.2	-77.83	952.4	769.9	742.7	705.3	37.45	19.832		
8,000.0	7,499.9	7,430.5	7,428.7	25.2	13.2	-84.80	952.6	769.8	699.7	662.0	37.73	18.547		
8,010.3	7,500.0	7,430.9	7,429.0	25.2	13.2	-86.18	952.6	769.8	690.9	653.1	37.79	18.285		
8,100.0	7,500.0	7,433.5	7,431.7	25.8	13.2	-86.60	952.6	769.7	616.1	577.8	38.29	16.092		
8,200.0	7,500.0	7,436.4	7,434.6	26.5	13.2	-87.06	952.7	769.7	538.0	499.2	38.81	13.865		
8,300.0	7,500.0	7,439.3	7,437.4	27.3	13.2	-87.52	952.8	769.6	468.4	429.2	39.15	11.965		
8,400.0	7,500.0	7,442.1	7,440.3	28.2	13.2	-87.97	952.9	769.6	411.4	372.4	39.02	10.543		
8,500.0	7,500.0	7,445.0	7,443.1	29.1	13.2	-88.42	953.0	769.5	373.0	335.0	38.00	9.816 SF		
8,600.0	7,500.0	7,447.8	7,445.9	30.2	13.2	-88.87	953.0	769.5	359.1	323.3	35.83	10.022 ES		
8,600.8	7,500.0	7,447.8	7,446.0	30.2	13.2	-88.88	953.0	769.5	359.1	323.3	35.81	10.028 CC		
8,700.0	7,500.0	7,450.6	7,448.7	31.3	13.3	-89.32	953.1	769.4	372.5	339.5	33.04	11.276		
8,800.0	7,500.0	7,453.4	7,451.5	32.4	13.3	-89.76	953.2	769.4	410.6	379.9	30.68	13.382		
8,900.0	7,500.0	7,456.1	7,454.2	33.6	13.3	-90.20	953.3	769.3	467.3	438.0	29.38	15.906		
9,000.0	7,500.0	7,458.8	7,457.0	34.9	13.3	-90.63	953.3	769.2	536.8	507.8	28.99	18.515		
9,100.0	7,500.0	7,461.5	7,459.7	36.2	13.3	-91.07	953.4	769.2	614.8	585.6	29.14	21.099		
9,200.0	7,500.0	7,464.2	7,462.4	37.5	13.3	-91.49	953.5	769.1	698.4	668.8	29.52	23.661		
9,300.0	7,500.0	7,466.9	7,465.0	38.9	13.3	-91.92	953.6	769.1	785.8	755.8	29.97	26.217		
9,400.0	7,500.0	7,469.6	7,467.7	40.3	13.3	-92.34	953.6	769.0	875.9	845.5	30.44	28.778		
9,500.0	7,500.0	7,472.2	7,470.3	41.7	13.3	-92.76	953.7	769.0	967.9	937.1	30.88	31.347		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 926-Geolink MWD														
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	46.75	224.8	238.9	328.1					
100.0	100.0	92.7	92.7	0.1	0.2	46.75	224.7	238.9	327.9	327.6	0.31	1,065.990		
200.0	200.0	193.6	193.6	0.3	0.3	46.75	224.4	238.6	327.6	326.9	0.66	499.910		
300.0	300.0	294.4	294.4	0.5	0.5	46.75	224.0	238.1	327.0	326.0	1.00	326.034		
350.0	350.0	344.8	344.8	0.6	0.6	46.74	223.8	237.8	326.6	325.4	1.18	277.545		
400.0	400.0	395.2	395.2	0.7	0.7	-62.92	223.5	237.5	326.0	324.7	1.35	241.413		
500.0	500.0	495.9	495.9	0.8	0.9	-63.22	222.8	236.7	324.2	322.5	1.70	190.751		
600.0	599.9	596.6	596.6	1.0	1.1	-63.81	221.9	235.7	321.3	319.2	2.05	156.560		
700.0	699.8	697.2	697.2	1.2	1.2	-64.71	220.8	234.5	317.4	315.0	2.41	131.621		
800.0	799.5	797.7	797.6	1.4	1.4	-65.94	219.6	233.1	312.7	309.9	2.78	112.417		
900.0	899.2	897.9	897.9	1.6	1.6	-67.51	218.2	231.5	307.1	304.0	3.16	97.042		
1,000.0	998.6	994.1	994.0	1.9	1.8	-69.54	217.6	229.5	301.4	297.9	3.56	84.559		
1,100.0	1,097.9	1,082.2	1,082.0	2.1	1.9	-72.15	220.1	227.2	298.0	294.0	3.98	74.909		
1,131.7	1,129.3	1,109.7	1,109.5	2.2	1.9	-73.05	221.5	226.8	297.7	293.6	4.12	72.323 CC, ES		
1,200.0	1,196.9	1,169.3	1,168.9	2.4	2.0	-75.18	225.9	226.1	298.7	294.3	4.42	67.634		
1,300.0	1,295.7	1,257.9	1,257.0	2.7	2.2	-78.65	234.9	225.9	303.7	298.9	4.88	62.222		
1,364.2	1,358.9	1,315.7	1,314.5	2.9	2.3	-81.01	241.9	226.2	308.9	303.7	5.20	59.444		
1,400.0	1,394.2	1,348.0	1,346.5	3.0	2.4	-82.42	246.3	226.2	312.5	307.1	5.37	58.148		
1,500.0	1,492.6	1,434.8	1,432.2	3.4	2.6	-86.20	260.0	226.1	325.3	319.4	5.85	55.586		
1,600.0	1,591.0	1,526.0	1,521.8	3.7	2.8	-90.03	276.6	225.9	342.1	335.8	6.34	53.975		
1,700.0	1,689.5	1,611.1	1,605.1	4.0	3.1	-93.48	294.0	225.0	362.4	355.6	6.79	53.373 SF		
1,800.0	1,787.9	1,696.5	1,688.1	4.4	3.4	-96.82	313.9	223.2	386.7	379.5	7.22	53.538		
1,900.0	1,886.3	1,786.3	1,775.0	4.7	3.7	-100.06	336.4	220.7	414.1	406.4	7.66	54.031		
2,000.0	1,984.8	1,869.3	1,855.0	5.1	4.1	-102.78	358.4	218.0	444.0	435.9	8.06	55.110		
2,100.0	2,083.2	1,957.3	1,939.4	5.4	4.5	-105.39	383.3	214.8	476.7	468.2	8.46	56.313		
2,200.0	2,181.7	2,043.3	2,021.6	5.8	4.9	-107.76	408.2	210.7	511.0	502.1	8.86	57.690		
2,300.0	2,280.1	2,121.5	2,095.9	6.1	5.3	-109.87	432.1	205.1	547.7	538.5	9.20	59.550		
2,400.0	2,378.5	2,210.1	2,179.4	6.5	5.8	-112.02	460.6	198.3	586.9	577.3	9.59	61.202		
2,500.0	2,477.0	2,301.1	2,265.5	6.8	6.3	-113.79	489.7	193.1	626.3	616.3	10.00	62.640		
2,600.0	2,575.4	2,392.1	2,351.5	7.2	6.8	-115.25	519.0	189.1	666.1	655.6	10.41	63.967		
2,700.0	2,673.8	2,482.5	2,437.1	7.5	7.3	-116.67	547.8	183.7	706.1	695.3	10.82	65.250		
2,800.0	2,772.3	2,570.6	2,520.4	7.9	7.8	-117.91	575.9	178.4	746.7	735.4	11.22	66.542		
2,900.0	2,870.7	2,654.6	2,599.7	8.2	8.3	-118.99	603.1	173.0	787.9	776.3	11.60	67.919		
3,000.0	2,969.2	2,736.8	2,677.0	8.6	8.8	-119.94	630.4	167.7	830.3	818.3	11.98	69.328		
3,100.0	3,067.6	2,829.7	2,764.4	8.9	9.3	-120.91	661.7	161.8	873.2	860.8	12.41	70.349		
3,200.0	3,166.0	2,923.6	2,852.8	9.3	9.9	-121.83	692.6	155.5	915.7	902.8	12.85	71.237		
3,300.0	3,264.5	3,025.0	2,948.6	9.6	10.5	-122.75	725.1	148.5	957.6	944.3	13.33	71.817		
3,400.0	3,362.9	3,118.9	3,037.5	10.0	11.0	-123.55	754.5	142.0	999.0	985.2	13.78	72.505		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft		
Survey Program: 103-Geolink MWD																
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	98.86	-13.5	86.5	87.9							
100.0	100.0	91.5	91.5	0.1	0.1	98.82	-13.5	86.7	87.8	87.5	0.28	308.232				
200.0	200.0	191.1	191.1	0.3	0.3	98.77	-13.5	87.6	88.6	88.0	0.63	140.580				
300.0	300.0	291.2	291.2	0.5	0.5	98.97	-14.0	88.5	89.6	88.6	0.98	91.434				
350.0	350.0	341.3	341.3	0.6	0.6	99.16	-14.3	88.8	90.0	88.8	1.15	77.957				
400.0	400.0	391.3	391.3	0.7	0.7	-10.26	-14.7	89.2	90.2	88.8	1.33	67.835				
500.0	500.0	491.4	491.4	0.8	0.8	-10.04	-15.5	89.7	89.1	87.4	1.68	53.088				
600.0	599.9	591.5	591.5	1.0	1.0	-10.17	-16.0	90.2	86.3	84.3	2.03	42.543				
700.0	699.8	691.6	691.6	1.2	1.2	-10.60	-16.4	90.6	81.5	79.2	2.38	34.289				
800.0	799.5	791.5	791.4	1.4	1.4	-11.48	-16.6	90.7	74.9	72.1	2.73	27.439				
900.0	899.2	891.4	891.4	1.6	1.5	-12.97	-16.6	90.7	66.3	63.2	3.08	21.522				
1,000.0	998.6	990.9	990.9	1.9	1.7	-15.49	-16.5	90.2	55.7	52.3	3.43	16.217				
1,100.0	1,097.9	1,090.2	1,090.1	2.1	1.9	-19.65	-16.6	89.7	43.5	39.7	3.80	11.456				
1,200.0	1,196.9	1,189.3	1,189.2	2.4	2.1	-28.93	-16.5	88.8	29.9	25.7	4.20	7.111				
1,300.0	1,295.7	1,287.8	1,287.7	2.7	2.2	-57.17	-16.0	87.7	17.1	12.3	4.80	3.568				
1,350.5	1,345.4	1,337.4	1,337.4	2.9	2.3	-89.03	-15.7	87.2	14.5	9.3	5.18	2.792 CC, ES, SF				
1,364.2	1,358.9	1,350.9	1,350.8	2.9	2.3	-98.86	-15.6	87.0	14.7	9.5	5.23	2.806				
1,400.0	1,394.2	1,386.0	1,386.0	3.0	2.4	-121.23	-15.4	86.7	17.2	11.9	5.27	3.265				
1,500.0	1,492.6	1,484.1	1,484.0	3.4	2.6	-151.49	-14.5	85.3	31.9	26.6	5.34	5.981				
1,600.0	1,591.0	1,582.2	1,582.1	3.7	2.7	-162.03	-13.7	83.6	50.0	44.4	5.59	8.940				
1,700.0	1,689.5	1,680.3	1,680.2	4.0	2.9	-167.07	-13.1	81.8	68.9	63.0	5.90	11.675				
1,800.0	1,787.9	1,778.6	1,778.4	4.4	3.1	-169.47	-12.0	80.5	87.9	81.6	6.23	14.094				
1,900.0	1,886.3	1,876.2	1,876.1	4.7	3.3	-170.80	-10.5	79.3	107.0	100.4	6.57	16.286				
2,000.0	1,984.8	1,975.0	1,974.9	5.1	3.4	-171.64	-8.7	78.1	126.3	119.4	6.92	18.262				
2,100.0	2,083.2	2,074.0	2,073.9	5.4	3.6	-172.45	-7.7	77.3	144.9	137.7	7.26	19.966				
2,200.0	2,181.7	2,173.9	2,173.7	5.8	3.8	-173.37	-7.8	76.9	162.7	155.1	7.60	21.401				
2,300.0	2,280.1	2,272.1	2,271.9	6.1	3.9	-174.22	-8.4	76.6	180.2	172.3	7.94	22.687				
2,400.0	2,378.5	2,370.8	2,370.6	6.5	4.1	-174.94	-8.9	76.2	197.9	189.6	8.29	23.886				
2,500.0	2,477.0	2,468.5	2,468.4	6.8	4.3	-175.71	-10.2	75.8	215.3	206.7	8.62	24.968				
2,600.0	2,575.4	2,566.6	2,566.4	7.2	4.5	-176.67	-12.1	73.6	234.3	225.3	8.94	26.199				
2,700.0	2,673.8	2,656.3	2,655.9	7.5	4.6	-177.84	-14.5	68.6	255.6	246.3	9.27	27.567				
2,800.0	2,772.3	2,754.8	2,754.1	7.9	4.8	-179.32	-19.0	62.9	276.9	267.3	9.62	28.790				
2,900.0	2,870.7	2,850.0	2,848.9	8.2	5.0	179.13	-24.8	56.5	298.8	288.8	9.96	29.994				
3,000.0	2,969.2	2,943.3	2,941.7	8.6	5.2	177.64	-31.1	48.9	321.9	311.6	10.30	31.237				
3,100.0	3,067.6	3,035.3	3,033.0	8.9	5.4	176.21	-37.9	40.4	346.1	335.4	10.65	32.485				
3,200.0	3,166.0	3,122.9	3,119.7	9.3	5.6	174.60	-46.4	29.9	372.6	361.6	11.00	33.875				
3,300.0	3,264.5	3,220.8	3,216.1	9.6	5.8	172.91	-56.6	17.3	400.0	388.5	11.41	35.060				
3,400.0	3,362.9	3,314.0	3,308.2	10.0	6.0	171.65	-65.3	5.7	427.5	415.7	11.79	36.248				
3,500.0	3,461.3	3,400.2	3,393.3	10.3	6.3	170.71	-72.4	-6.2	456.5	444.4	12.14	37.597				
3,600.0	3,559.8	3,486.3	3,477.8	10.7	6.5	169.67	-80.8	-20.2	487.9	475.4	12.51	39.015				
3,700.0	3,658.2	3,577.8	3,567.5	11.1	6.8	168.62	-90.2	-35.8	520.1	507.2	12.91	40.292				
3,800.0	3,756.7	3,669.4	3,657.0	11.4	7.1	167.58	-100.4	-52.5	553.5	540.2	13.33	41.531				
3,900.0	3,855.1	3,765.9	3,751.0	11.8	7.4	166.37	-113.6	-69.6	586.3	572.5	13.80	42.491				
4,000.0	3,953.5	3,860.9	3,843.3	12.1	7.7	165.15	-128.2	-87.0	619.7	605.4	14.28	43.401				
4,100.0	4,052.0	3,949.7	3,929.4	12.5	8.1	164.03	-142.8	-102.8	652.9	638.1	14.73	44.336				
4,200.0	4,150.4	4,037.6	4,014.5	12.8	8.4	163.05	-156.8	-119.6	687.5	672.4	15.16	45.344				
4,300.0	4,248.8	4,132.8	4,106.9	13.2	8.8	162.17	-171.0	-137.9	722.4	706.8	15.64	46.180				
4,400.0	4,347.3	4,245.3	4,216.4	13.5	9.2	161.30	-187.1	-158.2	756.4	740.2	16.23	46.604				
4,500.0	4,445.7	4,344.6	4,313.5	13.9	9.5	160.69	-200.2	-174.3	788.8	772.0	16.72	47.189				
4,600.0	4,544.2	4,456.4	4,423.1	14.3	9.9	160.09	-214.6	-190.5	819.4	802.1	17.27	47.442				
4,700.0	4,642.6	4,548.5	4,513.6	14.6	10.2	159.62	-226.8	-203.3	849.6	831.9	17.72	47.944				
4,800.0	4,741.0	4,653.3	4,616.4	15.0	10.6	159.10	-240.8	-218.0	879.9	861.7	18.24	48.247				

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													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			
4,900.0	4,839.5	4,765.8	4,727.2	15.3	10.9	158.71	-254.0	-231.6	908.5	889.7	18.77	48.415			
5,000.0	4,937.9	4,900.0	4,860.3	15.7	11.3	158.54	-265.5	-243.9	934.1	914.7	19.34	48.304			
5,100.0	5,036.3	5,011.5	4,971.4	16.0	11.5	158.59	-272.1	-250.9	956.8	937.0	19.78	48.375			
5,200.0	5,134.8	5,126.4	5,086.1	16.4	11.8	158.76	-276.7	-256.7	978.3	958.1	20.21	48.418			
5,300.0	5,233.2	5,234.3	5,193.9	16.7	11.9	159.06	-278.6	-260.6	998.4	977.8	20.58	48.512			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 134-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL															
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	49.72	212.0	250.1	328.0						
100.0	100.0	91.7	91.7	0.1	0.1	49.78	211.7	250.3	327.8	327.5	0.29	1,124.327			
153.0	153.0	144.0	144.0	0.2	0.2	49.87	211.2	250.5	327.6	327.2	0.47	701.298			
200.0	200.0	186.4	186.4	0.3	0.3	49.94	211.1	251.0	328.0	327.4	0.62	526.382			
300.0	300.0	276.0	276.0	0.5	0.5	49.99	212.5	253.2	330.9	330.0	0.95	346.946			
350.0	350.0	322.2	322.1	0.6	0.6	50.03	213.9	255.2	333.5	332.4	1.12	297.303			
400.0	400.0	369.0	368.8	0.7	0.6	-59.53	215.4	257.6	336.5	335.2	1.29	260.711			
500.0	500.0	459.5	459.0	0.8	0.9	-59.48	219.0	263.9	343.5	341.8	1.62	211.413			
600.0	599.9	551.9	550.9	1.0	1.1	-59.49	223.5	272.8	352.1	350.2	1.97	178.981			
700.0	699.8	644.6	642.8	1.2	1.3	-59.58	228.5	283.5	361.8	359.5	2.32	155.987			
800.0	799.5	738.0	735.1	1.4	1.6	-59.70	233.9	296.6	372.8	370.1	2.69	138.638			
900.0	899.2	831.6	827.3	1.6	1.9	-59.71	238.9	312.3	384.7	381.6	3.08	124.731			
1,000.0	998.6	936.3	930.2	1.9	2.3	-59.68	242.6	330.6	395.1	391.6	3.54	111.742			
1,100.0	1,097.9	1,033.7	1,026.0	2.1	2.7	-59.54	244.0	348.7	404.1	400.1	4.01	100.791			
1,200.0	1,196.9	1,122.0	1,112.1	2.4	3.0	-59.17	244.0	368.2	414.1	409.6	4.50	92.074			
1,300.0	1,295.7	1,212.1	1,199.3	2.7	3.5	-58.74	244.1	390.9	425.7	420.7	5.03	84.714			
1,364.2	1,358.9	1,271.2	1,256.1	2.9	3.8	-58.48	244.3	406.9	433.7	428.3	5.39	80.524			
1,400.0	1,394.2	1,305.8	1,289.4	3.0	3.9	-58.36	244.4	416.6	438.3	432.7	5.60	78.303			
1,500.0	1,492.6	1,404.8	1,384.3	3.4	4.4	-57.99	244.4	444.5	451.3	445.1	6.21	72.691			
1,600.0	1,591.0	1,509.2	1,484.3	3.7	5.0	-57.46	243.1	474.5	463.9	457.0	6.85	67.746			
1,700.0	1,689.5	1,606.4	1,577.8	4.0	5.5	-57.06	241.8	501.3	475.6	468.2	7.45	63.863			
1,800.0	1,787.9	1,701.2	1,668.8	4.4	6.0	-56.81	242.0	527.7	488.4	480.4	8.04	60.713			
1,900.0	1,886.3	1,796.8	1,760.4	4.7	6.5	-56.52	242.3	555.1	501.9	493.3	8.65	58.049			
2,000.0	1,984.8	1,903.1	1,862.2	5.1	7.1	-56.09	241.5	586.0	515.2	505.9	9.31	55.351			
2,100.0	2,083.2	2,006.9	1,961.6	5.4	7.6	-55.62	239.3	615.4	527.2	517.2	9.94	53.021			
2,200.0	2,181.7	2,107.8	2,058.6	5.8	8.2	-55.26	237.6	643.3	538.7	528.2	10.56	50.999			
2,300.0	2,280.1	2,208.8	2,155.7	6.1	8.7	-54.88	235.4	671.0	549.9	538.7	11.19	49.128			
2,400.0	2,378.5	2,311.6	2,254.4	6.5	9.2	-54.43	232.3	699.5	560.8	549.0	11.81	47.493			
2,500.0	2,477.0	2,412.5	2,351.7	6.8	9.7	-54.14	230.0	726.2	571.1	558.7	12.42	45.975			
2,600.0	2,575.4	2,513.2	2,448.8	7.2	10.2	-53.81	227.2	753.0	581.3	568.3	13.04	44.595			
2,700.0	2,673.8	2,616.4	2,548.4	7.5	10.7	-53.59	224.9	779.5	591.1	577.5	13.65	43.304			
2,800.0	2,772.3	2,720.5	2,649.1	7.9	11.2	-53.35	221.9	805.8	600.1	585.9	14.27	42.058			
2,900.0	2,870.7	2,827.8	2,753.3	8.2	11.7	-53.20	219.3	831.6	608.3	593.4	14.89	40.856			
3,000.0	2,969.2	2,937.0	2,859.7	8.6	12.2	-53.17	216.6	855.8	615.0	599.4	15.53	39.600			
3,100.0	3,067.6	3,024.0	2,944.5	8.9	12.5	-53.16	214.5	874.8	621.4	605.3	16.08	38.640			
3,200.0	3,166.0	3,112.0	3,030.1	9.3	13.0	-53.18	213.4	895.3	629.8	613.1	16.64	37.836			
3,300.0	3,264.5	3,209.7	3,124.8	9.6	13.4	-53.19	213.3	919.4	639.7	622.5	17.24	37.107			
3,400.0	3,362.9	3,309.4	3,221.4	10.0	13.9	-53.18	212.9	944.2	649.8	632.0	17.85	36.400			
3,500.0	3,461.3	3,415.5	3,324.1	10.3	14.4	-53.12	211.8	970.7	659.6	641.2	18.49	35.675			
3,600.0	3,559.8	3,521.4	3,426.7	10.7	14.9	-52.91	208.5	996.7	667.9	648.8	19.11	34.947			
3,700.0	3,658.2	3,623.3	3,525.5	11.1	15.4	-52.71	205.0	1,021.6	675.9	656.2	19.72	34.279			
3,800.0	3,756.7	3,717.5	3,616.8	11.4	15.8	-52.60	202.6	1,044.2	684.1	663.8	20.28	33.739			
3,900.0	3,855.1	3,811.8	3,708.5	11.8	16.3	-52.63	202.0	1,066.6	693.1	672.2	20.86	33.226			
4,000.0	3,953.5	3,917.4	3,811.1	12.1	16.7	-52.74	202.1	1,091.3	702.1	680.6	21.49	32.665			
4,100.0	4,052.0	4,026.8	3,917.6	12.5	17.2	-52.75	200.2	1,116.2	709.6	687.5	22.15	32.036			
4,200.0	4,150.4	4,117.7	4,005.9	12.8	17.7	-52.65	197.6	1,137.5	717.1	694.4	22.72	31.569			
4,300.0	4,248.8	4,204.4	4,089.8	13.2	18.1	-52.51	195.6	1,159.4	726.5	703.2	23.26	31.235			
4,400.0	4,347.3	4,305.6	4,187.4	13.5	18.6	-52.31	193.1	1,186.3	736.9	713.1	23.84	30.907			
4,500.0	4,445.7	4,427.2	4,305.4	13.9	19.1	-52.28	191.3	1,215.2	745.5	721.0	24.52	30.408			
4,600.0	4,544.2	4,535.5	4,411.5	14.3	19.6	-52.49	191.0	1,237.4	751.9	726.7	25.17	29.877			
4,700.0	4,642.6	4,640.5	4,514.5	14.6	20.0	-52.76	190.9	1,257.7	757.3	731.5	25.81	29.337			
4,800.0	4,741.0	4,744.5	4,616.7	15.0	20.3	-53.12	191.5	1,276.6	762.2	735.8	26.46	28.801			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft						
Survey Program: 134-Geolink MWD													Offset Well Error:		0.0 ft					
Reference													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								
4,900.0	4,839.5	4,858.7	4,729.4	15.3	20.7	-53.66	193.2	1,295.1	766.1	738.9	27.18	28.190								
5,000.0	4,937.9	4,975.8	4,845.4	15.7	21.0	-54.35	194.9	1,311.0	767.7	739.8	27.90	27.515								
5,100.0	5,036.3	5,097.8	4,966.7	16.0	21.3	-55.21	196.8	1,324.1	767.3	738.6	28.65	26.782								
5,200.0	5,134.8	5,215.2	5,083.7	16.4	21.4	-56.21	198.3	1,332.5	763.9	734.5	29.39	25.987								
5,300.0	5,233.2	5,327.5	5,196.0	16.7	21.6	-57.28	199.5	1,338.1	758.7	728.5	30.15	25.163								
5,400.0	5,331.7	5,435.6	5,303.9	17.1	21.7	-58.37	200.2	1,341.8	752.3	721.4	30.91	24.338								
5,500.0	5,430.1	5,537.8	5,406.1	17.5	21.8	-59.47	200.7	1,344.2	745.3	713.6	31.68	23.526								
5,600.0	5,528.5	5,637.6	5,505.8	17.8	21.9	-60.59	201.3	1,346.1	738.3	705.9	32.46	22.747								
5,700.0	5,627.0	5,738.0	5,606.3	18.2	22.0	-61.77	202.2	1,347.7	731.5	698.2	33.24	22.003								
5,800.0	5,725.4	5,839.2	5,707.5	18.5	22.1	-63.00	203.0	1,348.9	724.7	690.6	34.04	21.289								
5,900.0	5,823.8	5,942.9	5,811.2	18.9	22.2	-64.32	203.8	1,349.5	717.6	682.8	34.84	20.599								
6,000.0	5,922.3	6,042.3	5,910.6	19.2	22.3	-65.64	204.4	1,349.2	710.4	674.8	35.65	19.928								
6,100.0	6,020.7	6,138.1	6,006.4	19.6	22.4	-66.94	205.2	1,349.2	703.8	667.4	36.46	19.304								
6,200.0	6,119.2	6,235.2	6,103.5	20.0	22.4	-68.29	206.3	1,349.3	697.9	660.6	37.27	18.727								
6,300.0	6,217.6	6,332.9	6,201.1	20.3	22.5	-69.67	207.5	1,349.4	692.5	654.5	38.08	18.188								
6,400.0	6,316.0	6,431.1	6,299.3	20.7	22.6	-71.11	209.0	1,349.3	687.7	648.8	38.88	17.689								
6,500.0	6,414.5	6,529.1	6,397.4	21.0	22.7	-72.60	210.7	1,348.9	683.3	643.6	39.68	17.221								
6,600.0	6,512.9	6,626.2	6,494.4	21.4	22.8	-74.09	212.5	1,348.5	679.4	639.0	40.47	16.789								
6,700.0	6,611.3	6,723.9	6,592.1	21.7	22.8	-75.59	214.4	1,348.4	676.3	635.0	41.26	16.391								
6,800.0	6,709.8	6,822.7	6,690.9	22.1	22.9	-77.13	216.3	1,348.2	673.6	631.5	42.03	16.026								
6,843.8	6,752.9	6,866.0	6,734.2	22.3	23.0	-77.81	217.1	1,348.1	672.5	630.2	42.36	15.876								
6,850.0	6,759.0	6,872.7	6,740.9	22.3	23.0	-75.23	217.2	1,348.1	672.4	629.9	42.41	15.854								
6,900.0	6,808.3	6,926.6	6,794.8	22.4	23.0	-52.65	218.0	1,347.9	669.2	626.4	42.74	15.656								
6,950.0	6,857.5	6,977.3	6,845.4	22.6	23.1	-31.75	218.4	1,347.7	662.8	619.8	43.01	15.409								
7,000.0	6,906.4	7,024.6	6,892.7	22.7	23.1	-16.50	218.8	1,347.6	653.6	610.3	43.23	15.120								
7,050.0	6,954.8	7,072.2	6,940.4	22.8	23.2	-6.14	219.3	1,347.4	641.5	598.1	43.39	14.785								
7,100.0	7,002.3	7,119.6	6,987.7	22.9	23.2	1.19	219.8	1,347.3	626.6	583.1	43.49	14.407								
7,150.0	7,048.9	7,164.8	7,032.9	23.0	23.2	6.78	220.4	1,347.3	608.9	565.3	43.53	13.987								
7,200.0	7,094.2	7,208.7	7,076.9	23.1	23.3	11.41	221.0	1,347.3	588.6	545.1	43.51	13.528								
7,250.0	7,138.1	7,253.0	7,121.1	23.1	23.3	15.61	221.8	1,347.2	565.7	522.3	43.41	13.033								
7,300.0	7,180.2	7,295.8	7,163.9	23.2	23.4	19.72	222.6	1,347.1	540.4	497.2	43.22	12.502								
7,350.0	7,220.5	7,337.1	7,205.2	23.3	23.4	24.01	223.4	1,346.8	512.8	469.9	42.94	11.943								
7,400.0	7,258.7	7,376.4	7,244.5	23.3	23.4	28.71	224.1	1,346.6	483.1	440.6	42.52	11.363								
7,450.0	7,294.7	7,413.1	7,281.2	23.4	23.5	33.99	224.7	1,346.3	451.7	409.8	41.94	10.771								
7,500.0	7,328.2	7,447.2	7,315.3	23.5	23.5	40.02	225.3	1,346.1	419.0	377.9	41.14	10.185								
7,550.0	7,359.1	7,478.7	7,346.8	23.5	23.5	46.86	225.8	1,345.9	385.5	345.4	40.06	9.622								
7,600.0	7,387.2	7,507.5	7,375.6	23.6	23.5	54.43	226.3	1,345.7	351.8	313.2	38.61	9.113								
7,650.0	7,412.5	7,533.4	7,401.5	23.8	23.6	62.41	226.7	1,345.6	318.9	282.2	36.67	8.696								
7,700.0	7,434.7	7,556.3	7,424.4	23.9	23.6	70.31	227.0	1,345.4	288.0	253.8	34.18	8.425								
7,750.0	7,453.9	7,576.0	7,444.1	24.1	23.6	77.53	227.3	1,345.3	260.8	229.5	31.21	8.354								
7,800.0	7,469.8	7,592.5	7,460.6	24.2	23.6	83.55	227.6	1,345.3	239.4	211.1	28.36	8.442								
7,850.0	7,482.4	7,605.8	7,473.8	24.4	23.6	88.05	227.8	1,345.2	226.5	199.5	27.05	8.374								
7,885.7	7,489.3	7,613.2	7,481.2	24.6	23.6	90.23	227.9	1,345.2	223.7	195.8	27.88	8.022 CC								
7,900.0	7,491.6	7,615.7	7,483.7	24.7	23.6	90.86	227.9	1,345.2	224.1	195.5	28.64	7.827 ES								
7,950.0	7,497.5	7,622.2	7,490.3	24.9	23.6	91.88	228.0	1,345.2	233.0	200.4	32.57	7.153								
8,000.0	7,499.9	7,625.3	7,493.4	25.2	23.7	91.08	228.0	1,345.2	252.2	215.2	37.04	6.809								
8,010.3	7,500.0	7,625.6	7,493.6	25.2	23.7	90.68	228.0	1,345.2	257.3	219.4	37.90	6.789 SF								
8,100.0	7,500.0	7,626.9	7,494.9	25.8	23.7	91.01	228.1	1,345.2	312.5	268.7	43.72	7.146								
8,200.0	7,500.0	7,628.3	7,496.4	26.5	23.7	91.39	228.1	1,345.1	389.4	342.1	47.31	8.231								
8,300.0	7,500.0	7,629.7	7,497.8	27.3	23.7	91.76	228.1	1,345.1	475.0	425.9	49.19	9.657								
8,400.0	7,500.0	7,631.2	7,499.2	28.2	23.7	92.13	228.1	1,345.1	565.4	515.2	50.25	11.252								
8,500.0	7,500.0	7,632.6	7,500.7	29.1	23.7	92.50	228.1	1,345.1	658.6	607.7	50.89	12.940								

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 134-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			
8,600.0	7,500.0	7,634.1	7,502.1	30.2	23.7	92.87	228.2	1,345.1	753.5	702.1	51.32	14.682			
8,700.0	7,500.0	7,635.5	7,503.6	31.3	23.7	93.24	228.2	1,345.1	849.5	797.9	51.62	16.459			
8,800.0	7,500.0	7,636.9	7,505.0	32.4	23.7	93.61	228.2	1,345.1	946.4	894.6	51.84	18.256			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY															
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		
1,800.0	1,787.9	2,149.6	2,106.8	4.4	10.1	-88.76	755.8	534.8	964.3	955.3	8.98	107.421			
1,900.0	1,886.3	2,236.8	2,187.0	4.7	10.7	-90.67	732.1	509.8	926.8	917.0	9.79	94.702			
2,000.0	1,984.8	2,324.1	2,267.2	5.1	11.3	-92.73	708.4	484.7	890.3	879.6	10.65	83.561			
2,100.0	2,083.2	2,411.4	2,347.4	5.4	12.0	-94.94	684.8	459.7	855.1	843.5	11.59	73.797			
2,200.0	2,181.7	2,498.7	2,427.5	5.8	12.6	-97.31	661.1	434.7	821.2	808.6	12.59	65.246			
2,300.0	2,280.1	2,586.0	2,507.7	6.1	13.3	-99.85	637.4	409.6	788.9	775.3	13.66	57.771			
2,400.0	2,378.5	2,673.3	2,587.9	6.5	13.9	-102.57	613.7	384.6	758.4	743.6	14.80	51.257			
2,500.0	2,477.0	2,760.6	2,668.1	6.8	14.5	-105.46	590.0	359.6	729.9	713.9	16.00	45.605			
2,600.0	2,575.4	2,847.8	2,748.3	7.2	15.2	-108.55	566.3	334.5	703.6	686.3	17.28	40.728			
2,700.0	2,673.8	2,935.1	2,828.5	7.5	15.8	-111.81	542.6	309.5	679.8	661.2	18.60	36.550			
2,800.0	2,772.3	3,022.4	2,908.7	7.9	16.5	-115.26	518.9	284.4	658.8	638.8	19.96	33.003			
2,900.0	2,870.7	3,109.7	2,988.9	8.2	17.1	-118.87	495.2	259.4	640.8	619.4	21.34	30.026			
3,000.0	2,969.2	3,197.0	3,069.1	8.6	17.8	-122.62	471.5	234.4	626.1	603.4	22.71	27.565			
3,100.0	3,067.6	3,284.3	3,149.3	8.9	18.4	-126.50	447.8	209.3	614.9	590.8	24.05	25.567			
3,200.0	3,166.0	3,371.5	3,229.4	9.3	19.0	-130.47	424.1	184.3	607.4	582.1	25.32	23.987			
3,300.0	3,264.5	3,458.8	3,309.6	9.6	19.7	-134.50	400.4	159.3	603.9	577.4	26.51	22.781			
3,341.2	3,305.0	3,494.8	3,342.7	9.8	19.9	-136.16	390.7	149.0	603.5	576.6	26.96	22.383	CC, ES		
3,400.0	3,362.9	3,546.1	3,389.8	10.0	20.3	-138.54	376.8	134.2	604.2	576.6	27.58	21.909			
3,500.0	3,461.3	3,633.4	3,470.0	10.3	21.0	-142.56	353.1	109.2	608.5	580.0	28.52	21.333			
3,600.0	3,559.8	3,720.7	3,550.2	10.7	21.6	-146.51	329.4	84.2	616.6	587.3	29.34	21.019			
3,700.0	3,658.2	3,808.0	3,630.4	11.1	22.3	-150.37	305.7	59.1	628.4	598.4	30.02	20.932	SF		
3,800.0	3,756.7	3,895.3	3,710.6	11.4	22.9	-154.10	282.0	34.1	643.7	613.1	30.59	21.043			
3,900.0	3,855.1	3,982.5	3,790.8	11.8	23.5	-157.69	258.3	9.1	662.3	631.2	31.06	21.321			
4,000.0	3,953.5	4,069.8	3,871.0	12.1	24.2	-161.10	234.6	-16.0	683.8	652.4	31.45	21.741			
4,100.0	4,052.0	4,157.1	3,951.2	12.5	24.8	-164.33	210.9	-41.0	708.1	676.3	31.78	22.278			
4,200.0	4,150.4	4,244.4	4,031.3	12.8	25.5	-167.38	187.2	-66.0	734.8	702.7	32.07	22.910			
4,300.0	4,248.8	4,331.7	4,111.5	13.2	26.1	-170.25	163.5	-91.1	763.7	731.3	32.33	23.618			
4,400.0	4,347.3	4,419.0	4,191.7	13.5	26.8	-172.93	139.8	-116.1	794.5	761.9	32.58	24.387			
4,500.0	4,445.7	4,506.2	4,271.9	13.9	27.4	-175.44	116.1	-141.2	827.1	794.2	32.82	25.201			
4,600.0	4,544.2	4,593.5	4,352.1	14.3	28.0	-177.78	92.4	-166.2	861.2	828.1	33.06	26.049			
4,700.0	4,642.6	4,680.8	4,432.3	14.6	28.7	-179.96	68.7	-191.2	896.6	863.3	33.31	26.920			
4,800.0	4,741.0	4,768.1	4,512.5	15.0	29.3	178.00	45.1	-216.3	933.3	899.7	33.56	27.808			
4,900.0	4,839.5	4,855.4	4,592.7	15.3	30.0	176.11	21.4	-241.3	971.0	937.2	33.83	28.705			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - 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				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)				
2,000.0	1,984.8	2,187.3	2,158.0	5.1	7.3	-75.89	700.3	751.0	974.6	964.5	10.03	97.192		
2,100.0	2,083.2	2,283.8	2,251.0	5.4	7.8	-76.02	674.8	750.7	948.2	937.6	10.65	89.073		
2,200.0	2,181.7	2,380.2	2,344.0	5.8	8.3	-76.17	649.4	750.4	921.9	910.7	11.26	81.845		
2,300.0	2,280.1	2,476.7	2,437.1	6.1	8.7	-76.32	623.9	750.0	895.6	883.7	11.88	75.372		
2,400.0	2,378.5	2,573.1	2,530.1	6.5	9.2	-76.48	598.5	749.7	869.3	856.8	12.50	69.544		
2,500.0	2,477.0	2,669.6	2,623.1	6.8	9.7	-76.65	573.0	749.4	843.0	829.9	13.12	64.270		
2,600.0	2,575.4	2,766.0	2,716.1	7.2	10.1	-76.83	547.5	749.1	816.7	803.0	13.73	59.476		
2,700.0	2,673.8	2,862.5	2,809.2	7.5	10.6	-77.02	522.1	748.7	790.4	776.1	14.35	55.100		
2,800.0	2,772.3	2,958.9	2,902.2	7.9	11.1	-77.22	496.6	748.4	764.2	749.2	14.96	51.090		
2,900.0	2,870.7	3,055.4	2,995.2	8.2	11.6	-77.44	471.1	748.1	737.9	722.3	15.57	47.404		
3,000.0	2,969.2	3,151.8	3,088.2	8.6	12.0	-77.68	445.7	747.7	711.6	695.5	16.17	44.003		
3,100.0	3,067.6	3,248.3	3,181.3	8.9	12.5	-77.93	420.2	747.4	685.4	668.6	16.78	40.857		
3,200.0	3,166.0	3,344.7	3,274.3	9.3	13.0	-78.21	394.7	747.1	659.2	641.8	17.37	37.939		
3,300.0	3,264.5	3,441.2	3,367.3	9.6	13.4	-78.51	369.3	746.8	632.9	615.0	17.97	35.224		
3,400.0	3,362.9	3,537.6	3,460.3	10.0	13.9	-78.83	343.8	746.4	606.7	588.2	18.56	32.693		
3,500.0	3,461.3	3,634.1	3,553.4	10.3	14.4	-79.18	318.3	746.1	580.6	561.4	19.14	30.328		
3,600.0	3,559.8	3,730.5	3,646.4	10.7	14.9	-79.57	292.9	745.8	554.4	534.7	19.72	28.114		
3,700.0	3,658.2	3,827.0	3,739.4	11.1	15.3	-79.99	267.4	745.4	528.3	508.0	20.29	26.038		
3,800.0	3,756.7	3,923.4	3,832.4	11.4	15.8	-80.46	242.0	745.1	502.2	481.3	20.85	24.087		
3,900.0	3,855.1	4,019.9	3,925.5	11.8	16.3	-80.98	216.5	744.8	476.1	454.7	21.40	22.251		
4,000.0	3,953.5	4,116.3	4,018.5	12.1	16.7	-81.55	191.0	744.5	450.1	428.2	21.93	20.520		
4,100.0	4,052.0	4,212.8	4,111.5	12.5	17.2	-82.20	165.6	744.1	424.1	401.7	22.46	18.887		
4,200.0	4,150.4	4,309.2	4,204.5	12.8	17.7	-82.94	140.1	743.8	398.2	375.2	22.96	17.345		
4,300.0	4,248.8	4,405.7	4,297.6	13.2	18.2	-83.77	114.6	743.5	372.4	348.9	23.44	15.887		
4,400.0	4,347.3	4,502.1	4,390.6	13.5	18.6	-84.73	89.2	743.1	346.6	322.7	23.89	14.508		
4,500.0	4,445.7	4,598.6	4,483.6	13.9	19.1	-85.84	63.7	742.8	320.9	296.6	24.31	13.203		
4,600.0	4,544.2	4,695.0	4,576.6	14.3	19.6	-87.15	38.2	742.5	295.4	270.7	24.68	11.968		
4,700.0	4,642.6	4,791.5	4,669.7	14.6	20.0	-88.69	12.8	742.2	270.1	245.0	25.00	10.800		
4,800.0	4,741.0	4,887.9	4,762.7	15.0	20.5	-90.56	-12.7	741.8	244.9	219.7	25.26	9.697		
4,900.0	4,839.5	4,984.4	4,855.7	15.3	21.0	-92.84	-38.2	741.5	220.1	194.7	25.42	8.658		
5,000.0	4,937.9	5,080.8	4,948.7	15.7	21.5	-95.70	-63.6	741.2	195.7	170.2	25.48	7.680		
5,100.0	5,036.3	5,177.3	5,041.8	16.0	21.9	-99.34	-89.1	740.8	171.8	146.4	25.41	6.762		
5,200.0	5,134.8	5,273.7	5,134.8	16.4	22.4	-104.11	-114.6	740.5	148.9	123.7	25.24	5.899		
5,300.0	5,233.2	5,370.2	5,227.8	16.7	22.9	-110.51	-140.0	740.2	127.3	102.2	25.11	5.070		
5,400.0	5,331.7	5,466.6	5,320.9	17.1	23.3	-119.29	-165.5	739.9	107.9	82.5	25.41	4.245		
5,500.0	5,430.1	5,563.1	5,413.9	17.5	23.8	-131.32	-190.9	739.5	92.0	65.2	26.75	3.439		
5,600.0	5,528.5	5,659.5	5,506.9	17.8	24.3	-147.05	-216.4	739.2	81.7	52.6	29.14	2.805		
5,677.5	5,604.8	5,734.3	5,579.0	18.1	24.7	-161.06	-236.1	739.0	79.1	47.9	31.22	2.535 CC		
5,700.0	5,627.0	5,755.9	5,599.9	18.2	24.8	-165.20	-241.9	738.9	79.4	47.6	31.81	2.495 ES		
5,800.0	5,725.4	5,852.4	5,693.0	18.5	25.2	177.42	-267.3	738.6	85.5	51.0	34.46	2.481 SF		
5,900.0	5,823.8	5,948.8	5,786.0	18.9	25.7	163.33	-292.8	738.2	98.6	61.7	36.87	2.674		
6,000.0	5,922.3	6,045.3	5,879.0	19.2	26.2	152.87	-318.3	737.9	116.3	77.7	38.61	3.012		
6,100.0	6,020.7	6,141.7	5,972.0	19.6	26.7	145.27	-343.7	737.6	136.8	97.0	39.78	3.439		
6,200.0	6,119.2	6,238.2	6,065.1	20.0	27.1	139.67	-369.2	737.2	159.1	118.5	40.62	3.916		
6,300.0	6,217.6	6,334.6	6,158.1	20.3	27.6	135.46	-394.7	736.9	182.5	141.2	41.30	4.418		
6,400.0	6,316.0	6,431.1	6,251.1	20.7	28.1	132.21	-420.1	736.6	206.6	164.7	41.90	4.931		
6,500.0	6,414.5	6,527.5	6,344.1	21.0	28.5	129.63	-445.6	736.3	231.2	188.7	42.47	5.445		
6,600.0	6,512.9	6,627.3	6,440.6	21.4	28.7	127.65	-471.1	735.9	255.8	212.9	42.87	5.966		
6,700.0	6,611.3	6,729.8	6,540.5	21.7	28.8	126.58	-494.0	735.6	278.7	235.4	43.25	6.443		
6,800.0	6,709.8	6,833.4	6,642.2	22.1	28.9	126.27	-513.5	735.4	299.7	256.0	43.69	6.861		
6,843.8	6,752.9	6,879.0	6,687.3	22.3	28.9	126.34	-520.9	735.3	308.3	264.4	43.89	7.025		
6,850.0	6,759.0	6,885.5	6,693.7	22.3	28.9	129.10	-521.9	735.3	309.5	265.6	43.92	7.048		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
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	
6,900.0	6,808.3	6,937.6	6,745.2	22.4	29.0	152.87	-529.3	735.2	320.0	275.9	44.09	7.258		
6,950.0	6,857.5	6,989.4	6,796.6	22.6	29.0	174.34	-535.8	735.1	331.9	287.7	44.19	7.511		
7,000.0	6,906.4	7,040.8	6,847.7	22.7	29.0	-170.38	-541.4	735.0	345.2	301.0	44.22	7.807		
7,050.0	6,954.8	7,091.8	6,898.5	22.8	29.1	-160.44	-545.9	735.0	360.0	315.8	44.19	8.147		
7,100.0	7,002.3	7,142.2	6,948.8	22.9	29.1	-154.00	-549.6	734.9	376.4	332.3	44.10	8.535		
7,150.0	7,048.9	7,192.0	6,998.5	23.0	29.2	-149.73	-552.3	734.9	394.2	350.3	43.94	8.972		
7,200.0	7,094.2	7,241.0	7,047.4	23.1	29.2	-146.82	-554.1	734.9	413.8	370.1	43.73	9.463		
7,250.0	7,138.1	7,289.1	7,095.5	23.1	29.2	-144.79	-555.1	734.8	435.0	391.6	43.46	10.011		
7,300.0	7,180.2	7,334.8	7,141.2	23.2	29.3	-143.26	-555.3	734.8	458.1	414.9	43.14	10.619		
7,350.0	7,220.5	7,375.1	7,181.5	23.3	29.3	-141.88	-555.3	734.8	483.2	440.5	42.77	11.297		
7,400.0	7,258.7	7,413.3	7,219.7	23.3	29.3	-140.66	-555.3	734.8	510.7	468.3	42.38	12.052		
7,450.0	7,294.7	7,449.2	7,255.7	23.4	29.3	-139.45	-555.3	734.8	540.5	498.5	41.95	12.883		
7,500.0	7,328.2	7,482.8	7,289.2	23.5	29.4	-138.13	-555.3	734.8	572.5	531.0	41.51	13.790		
7,550.0	7,359.1	7,513.7	7,320.1	23.5	29.4	-136.59	-555.3	734.8	606.6	565.6	41.07	14.771		
7,600.0	7,387.2	7,541.8	7,348.2	23.6	29.4	-134.71	-555.3	734.8	642.9	602.2	40.63	15.824		
7,650.0	7,412.5	7,567.1	7,373.5	23.8	29.4	-132.39	-555.3	734.8	681.0	640.8	40.19	16.943		
7,700.0	7,434.7	7,589.3	7,395.7	23.9	29.5	-129.49	-555.3	734.8	720.8	681.1	39.77	18.124		
7,750.0	7,453.9	7,608.4	7,414.9	24.1	29.5	-125.86	-555.3	734.8	762.2	722.9	39.37	19.361		
7,800.0	7,469.8	7,624.3	7,430.8	24.2	29.5	-121.33	-555.3	734.8	805.0	766.0	38.99	20.647		
7,850.0	7,482.4	7,636.9	7,443.4	24.4	29.5	-115.73	-555.3	734.8	848.9	810.3	38.63	21.976		
7,900.0	7,491.6	7,646.2	7,452.6	24.7	29.5	-108.93	-555.3	734.8	893.8	855.5	38.29	23.341		
7,950.0	7,497.5	7,652.1	7,458.5	24.9	29.5	-100.93	-555.3	734.8	939.3	901.3	37.98	24.733		
8,000.0	7,499.9	7,654.5	7,460.9	25.2	29.5	-91.94	-555.3	734.8	985.3	947.6	37.68	26.146		
8,010.3	7,500.0	7,654.6	7,461.0	25.2	29.5	-90.00	-555.3	734.8	994.8	957.2	37.63	26.439		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	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				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	53.58	195.2	264.7	329.0					
100.0	100.0	91.0	91.0	0.1	0.1	53.58	195.2	264.7	328.9	328.6	0.28	1,160.734		
200.0	200.0	191.0	191.0	0.3	0.3	53.58	195.2	264.7	328.9	328.3	0.63	522.009		
300.0	300.0	291.0	291.0	0.5	0.5	53.58	195.2	264.7	328.9	327.9	0.98	335.910		
350.0	350.0	341.0	341.0	0.6	0.6	53.58	195.2	264.7	328.9	327.7	1.15	285.091		
400.0	400.0	391.0	391.0	0.7	0.7	-56.07	195.2	264.7	328.8	327.4	1.33	247.531		
500.0	500.0	491.0	491.0	0.8	0.8	-56.33	195.2	264.7	327.8	326.1	1.68	195.309		
600.0	599.9	588.5	588.5	1.0	1.0	-56.61	194.4	265.7	326.2	324.2	2.03	160.766		
700.0	699.8	685.9	685.7	1.2	1.2	-56.57	191.4	269.3	324.5	322.1	2.39	135.555		
800.0	799.5	783.2	782.7	1.4	1.4	-56.22	186.4	275.5	322.6	319.8	2.78	115.857		
900.0	899.2	880.3	879.2	1.6	1.6	-55.55	179.3	284.2	320.6	317.4	3.21	99.793		
1,000.0	998.6	977.2	975.0	1.9	1.9	-54.55	170.2	295.4	318.6	314.9	3.69	86.398		
1,100.0	1,097.9	1,073.8	1,070.0	2.1	2.2	-53.22	159.1	309.1	316.7	312.5	4.21	75.155		
1,200.0	1,196.9	1,171.3	1,165.2	2.4	2.6	-51.58	145.9	325.2	314.8	310.1	4.78	65.882		
1,300.0	1,295.7	1,270.9	1,262.3	2.7	2.9	-50.02	132.1	342.2	312.4	307.1	5.38	58.113		
1,364.2	1,358.9	1,334.8	1,324.7	2.9	3.2	-49.13	123.2	353.1	310.4	304.6	5.77	53.821		
1,400.0	1,394.2	1,370.5	1,359.5	3.0	3.3	-48.65	118.2	359.2	309.2	303.2	5.99	51.648		
1,500.0	1,492.6	1,470.2	1,456.8	3.4	3.7	-47.28	104.3	376.2	305.9	299.3	6.59	46.381		
1,600.0	1,591.0	1,569.9	1,554.0	3.7	4.1	-45.89	90.5	393.2	302.7	295.5	7.20	42.070		
1,700.0	1,689.5	1,669.5	1,651.2	4.0	4.5	-44.46	76.6	410.2	299.8	292.0	7.79	38.500		
1,800.0	1,787.9	1,769.2	1,748.5	4.4	5.0	-43.01	62.7	427.2	297.0	288.7	8.36	35.513		
1,900.0	1,886.3	1,868.9	1,845.7	4.7	5.4	-41.54	48.9	444.3	294.5	285.5	8.93	32.992		
2,000.0	1,984.8	1,968.6	1,942.9	5.1	5.8	-40.04	35.0	461.3	292.1	282.6	9.47	30.847		
2,100.0	2,083.2	2,068.2	2,040.1	5.4	6.2	-38.51	21.1	478.3	289.9	279.9	9.99	29.011		
2,200.0	2,181.7	2,167.9	2,137.4	5.8	6.6	-36.97	7.3	495.3	288.0	277.5	10.50	27.432		
2,300.0	2,280.1	2,267.6	2,234.6	6.1	7.0	-35.40	-6.6	512.3	286.2	275.3	10.98	26.068		
2,400.0	2,378.5	2,367.3	2,331.8	6.5	7.5	-33.82	-20.5	529.3	284.7	273.3	11.44	24.886		
2,500.0	2,477.0	2,466.9	2,429.1	6.8	7.9	-32.22	-34.3	546.3	283.4	271.5	11.88	23.860		
2,600.0	2,575.4	2,566.6	2,526.3	7.2	8.3	-30.61	-48.2	563.3	282.3	270.1	12.29	22.970		
2,700.0	2,673.8	2,666.3	2,623.5	7.5	8.7	-28.98	-62.1	580.3	281.5	268.8	12.68	22.195		
2,800.0	2,772.3	2,766.0	2,720.7	7.9	9.1	-27.35	-75.9	597.4	280.9	267.8	13.05	21.523		
2,900.0	2,870.7	2,865.6	2,818.0	8.2	9.6	-25.72	-89.8	614.4	280.5	267.1	13.39	20.941		
3,000.0	2,969.2	2,965.3	2,915.2	8.6	10.0	-24.07	-103.7	631.4	280.3	266.6	13.72	20.438		
3,018.9	2,987.8	2,984.2	2,933.6	8.6	10.1	-23.76	-106.3	634.6	280.3	266.5	13.77	20.350		
3,100.0	3,067.6	3,065.0	3,012.4	8.9	10.4	-22.43	-117.5	648.4	280.4	266.4	14.02	20.004		
3,200.0	3,166.0	3,164.7	3,109.7	9.3	10.8	-20.79	-131.4	665.4	280.7	266.4	14.30	19.632		
3,300.0	3,264.5	3,264.3	3,206.9	9.6	11.3	-19.16	-145.3	682.4	281.2	266.7	14.56	19.314		
3,400.0	3,362.9	3,364.0	3,304.1	10.0	11.7	-17.53	-159.1	699.4	282.0	267.2	14.81	19.045		
3,500.0	3,461.3	3,463.7	3,401.4	10.3	12.1	-15.92	-173.0	716.4	283.0	267.9	15.04	18.818		
3,600.0	3,559.8	3,563.4	3,498.6	10.7	12.5	-14.31	-186.9	733.4	284.2	268.9	15.26	18.629		
3,700.0	3,658.2	3,663.0	3,595.8	11.1	12.9	-12.72	-200.7	750.5	285.6	270.2	15.46	18.471		
3,800.0	3,756.7	3,762.7	3,693.0	11.4	13.4	-11.15	-214.6	767.5	287.3	271.6	15.66	18.341		
3,900.0	3,855.1	3,862.4	3,790.3	11.8	13.8	-9.60	-228.5	784.5	289.2	273.3	15.86	18.235		
4,000.0	3,953.5	3,962.1	3,887.5	12.1	14.2	-8.07	-242.3	801.5	291.2	275.2	16.05	18.148		
4,100.0	4,052.0	4,061.7	3,984.7	12.5	14.6	-6.56	-256.2	818.5	293.5	277.3	16.24	18.077		
4,200.0	4,150.4	4,161.4	4,082.0	12.8	15.1	-5.07	-270.1	835.5	296.0	279.6	16.43	18.018		
4,300.0	4,248.8	4,261.1	4,179.2	13.2	15.5	-3.61	-283.9	852.5	298.7	282.1	16.62	17.969		
4,400.0	4,347.3	4,360.8	4,276.4	13.5	15.9	-2.18	-297.8	869.5	301.6	284.8	16.82	17.926		
4,500.0	4,445.7	4,460.4	4,373.6	13.9	16.3	-0.77	-311.7	886.5	304.7	287.6	17.03	17.886		
4,600.0	4,544.2	4,560.1	4,470.9	14.3	16.8	0.60	-325.5	903.6	307.9	290.7	17.25	17.849		
4,700.0	4,642.6	4,659.8	4,568.1	14.6	17.2	1.95	-339.4	920.6	311.3	293.8	17.48	17.810		
4,800.0	4,741.0	4,759.5	4,665.3	15.0	17.6	3.27	-353.3	937.6	314.9	297.2	17.72	17.770		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	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: O-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)				
4,900.0	4,839.5	4,859.1	4,762.6	15.3	18.0	4.56	-367.1	954.6	318.7	300.7	17.98	17.726		
5,000.0	4,937.9	4,958.8	4,859.8	15.7	18.5	5.81	-381.0	971.6	322.6	304.3	18.25	17.677		
5,100.0	5,036.3	5,058.5	4,957.0	16.0	18.9	7.04	-394.9	988.6	326.6	308.1	18.53	17.623		
5,200.0	5,134.8	5,158.2	5,054.2	16.4	19.3	8.23	-408.7	1,005.6	330.8	312.0	18.84	17.562		
5,300.0	5,233.2	5,257.8	5,151.5	16.7	19.7	9.40	-422.6	1,022.6	335.2	316.0	19.16	17.496		
5,400.0	5,331.7	5,357.5	5,248.7	17.1	20.2	10.54	-436.5	1,039.6	339.7	320.2	19.50	17.423		
5,500.0	5,430.1	5,457.2	5,345.9	17.5	20.6	11.64	-450.3	1,056.7	344.3	324.4	19.85	17.344		
5,600.0	5,528.5	5,556.9	5,443.2	17.8	21.0	12.72	-464.2	1,073.7	349.0	328.8	20.22	17.259		
5,700.0	5,627.0	5,656.5	5,540.4	18.2	21.4	13.76	-478.1	1,090.7	353.9	333.3	20.61	17.168		
5,800.0	5,725.4	5,756.2	5,637.6	18.5	21.9	14.78	-491.9	1,107.7	358.9	337.8	21.02	17.072		
5,900.0	5,823.8	5,855.9	5,734.8	18.9	22.3	15.77	-505.8	1,124.7	363.9	342.5	21.44	16.971		
6,000.0	5,922.3	5,965.1	5,841.5	19.2	22.7	16.82	-520.4	1,142.6	368.3	346.4	21.93	16.797		
6,100.0	6,020.7	6,079.6	5,954.3	19.6	23.1	17.87	-533.1	1,158.2	369.0	346.6	22.43	16.454		
6,200.0	6,119.2	6,194.1	6,067.7	20.0	23.4	18.92	-542.9	1,170.2	365.9	342.9	22.92	15.960		
6,300.0	6,217.6	6,308.1	6,181.2	20.3	23.6	19.98	-549.8	1,178.7	358.8	335.4	23.41	15.325		
6,400.0	6,316.0	6,421.3	6,294.2	20.7	23.8	21.11	-553.9	1,183.7	347.9	324.0	23.91	14.553		
6,500.0	6,414.5	6,532.6	6,405.5	21.0	23.9	22.33	-555.1	1,185.2	333.2	308.8	24.41	13.651		
6,600.0	6,512.9	6,631.0	6,503.9	21.4	24.0	23.54	-555.1	1,185.2	317.0	292.0	25.02	12.671		
6,700.0	6,611.3	6,729.5	6,602.3	21.7	24.1	24.88	-555.1	1,185.2	300.9	275.2	25.67	11.719		
6,800.0	6,709.8	6,827.9	6,700.8	22.1	24.1	26.36	-555.1	1,185.2	285.0	258.6	26.40	10.795		
6,843.8	6,752.9	6,871.0	6,743.9	22.3	24.2	27.06	-555.1	1,185.2	278.0	251.3	26.74	10.399		
6,850.0	6,759.0	6,877.1	6,750.0	22.3	24.2	29.90	-555.1	1,185.2	277.1	250.3	26.79	10.343		
6,900.0	6,808.3	6,926.4	6,799.3	22.4	24.2	54.59	-555.1	1,185.2	270.8	243.5	27.31	9.916		
6,950.0	6,857.5	6,975.6	6,848.5	22.6	24.3	77.65	-555.1	1,185.2	267.3	239.3	28.04	9.535		
6,983.6	6,890.4	7,008.5	6,881.4	22.7	24.3	90.00	-555.1	1,185.2	266.7	238.0	28.65	9.309 CC		
7,000.0	6,906.4	7,024.5	6,897.4	22.7	24.3	95.10	-555.1	1,185.2	266.8	237.8	28.97	9.209 ES		
7,050.0	6,954.8	7,072.9	6,945.8	22.8	24.4	107.65	-555.1	1,185.2	269.5	239.4	30.12	8.949		
7,100.0	7,002.3	7,120.5	6,993.3	22.9	24.4	116.99	-555.1	1,185.2	275.7	244.3	31.44	8.769		
7,150.0	7,048.9	7,167.0	7,039.9	23.0	24.4	124.31	-555.1	1,185.2	285.5	252.7	32.88	8.684 SF		
7,200.0	7,094.2	7,212.3	7,085.2	23.1	24.5	130.26	-555.1	1,185.2	299.2	264.8	34.36	8.706		
7,250.0	7,138.1	7,256.2	7,129.1	23.1	24.5	135.20	-555.1	1,185.2	316.6	280.8	35.81	8.840		
7,300.0	7,180.2	7,298.4	7,171.2	23.2	24.6	139.35	-555.1	1,185.2	337.8	300.6	37.18	9.085		
7,350.0	7,220.5	7,338.6	7,211.5	23.3	24.6	142.83	-555.1	1,185.2	362.6	324.2	38.42	9.438		
7,400.0	7,258.7	7,376.9	7,249.7	23.3	24.6	145.74	-555.1	1,185.2	390.9	351.3	39.52	9.890		
7,450.0	7,294.7	7,412.8	7,285.7	23.4	24.7	148.14	-555.1	1,185.2	422.3	381.9	40.47	10.435		
7,500.0	7,328.2	7,446.3	7,319.2	23.5	24.7	150.08	-555.1	1,185.2	456.8	415.5	41.29	11.062		
7,550.0	7,359.1	7,477.2	7,350.1	23.5	24.7	151.59	-555.1	1,185.2	493.9	451.9	41.99	11.763		
7,600.0	7,387.2	7,505.4	7,378.2	23.6	24.7	152.68	-555.1	1,185.2	533.5	490.9	42.58	12.530		
7,650.0	7,412.5	7,530.6	7,403.5	23.8	24.8	153.33	-555.1	1,185.2	575.3	532.2	43.08	13.355		
7,700.0	7,434.7	7,552.9	7,425.7	23.9	24.8	153.49	-555.1	1,185.2	619.0	575.5	43.50	14.231		
7,750.0	7,453.9	7,572.0	7,444.9	24.1	24.8	153.04	-555.1	1,185.2	664.4	620.5	43.85	15.151		
7,800.0	7,469.8	7,587.9	7,460.8	24.2	24.8	151.74	-555.1	1,185.2	711.1	667.0	44.14	16.109		
7,850.0	7,482.4	7,600.5	7,473.4	24.4	24.8	149.05	-555.1	1,185.2	759.0	714.6	44.39	17.098		
7,900.0	7,491.6	7,609.8	7,482.6	24.7	24.8	143.63	-555.1	1,185.2	807.8	763.2	44.60	18.112		
7,950.0	7,497.5	7,615.6	7,488.5	24.9	24.8	131.62	-555.1	1,185.2	857.2	812.4	44.77	19.146		
8,000.0	7,499.9	7,618.0	7,490.9	25.2	24.8	100.48	-555.1	1,185.2	906.9	862.0	44.91	20.193		
8,010.3	7,500.0	7,618.1	7,491.0	25.2	24.8	90.00	-555.1	1,185.2	917.2	872.3	44.94	20.410		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
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	
9,000.0	7,500.0	7,657.7	7,461.0	34.9	30.1	90.00	1,976.4	1,878.7	975.4	945.5	29.92	32.602		
9,100.0	7,500.0	7,657.7	7,461.0	36.2	30.1	90.00	1,976.4	1,878.7	913.8	881.7	32.15	28.424		
9,200.0	7,500.0	7,657.7	7,461.0	37.5	30.1	90.00	1,976.4	1,878.7	859.5	823.8	35.73	24.058		
9,300.0	7,500.0	7,657.7	7,461.0	38.9	30.1	90.00	1,976.4	1,878.7	813.8	773.2	40.59	20.049		
9,400.0	7,500.0	7,657.7	7,461.0	40.3	30.1	90.00	1,976.4	1,878.7	778.4	731.9	46.49	16.742		
9,500.0	7,500.0	7,657.7	7,461.0	41.7	30.1	90.00	1,976.4	1,878.7	754.7	701.7	53.00	14.240		
9,600.0	7,500.0	7,657.7	7,461.0	43.2	30.1	90.00	1,976.4	1,878.7	743.8	684.2	59.56	12.488		
9,631.9	7,500.0	7,657.7	7,461.0	43.7	30.1	90.00	1,976.4	1,878.7	743.1	681.5	61.57	12.068	CC	
9,700.0	7,500.0	7,657.7	7,461.0	44.7	30.1	90.00	1,976.4	1,878.7	746.2	680.6	65.62	11.371	ES	
9,800.0	7,500.0	7,657.7	7,461.0	46.2	30.1	90.00	1,976.4	1,878.7	761.9	691.1	70.78	10.764		
9,900.0	7,500.0	7,657.7	7,461.0	47.7	30.1	90.00	1,976.4	1,878.7	790.0	715.2	74.80	10.561	SF	
10,000.0	7,500.0	7,657.7	7,461.0	49.2	30.1	90.00	1,976.4	1,878.7	829.2	751.6	77.69	10.674		
10,100.0	7,500.0	7,657.7	7,461.0	50.7	30.1	90.00	1,976.4	1,878.7	878.2	798.6	79.58	11.036		
10,200.0	7,500.0	7,657.7	7,461.0	52.3	30.1	90.00	1,976.4	1,878.7	935.4	854.7	80.68	11.594		
10,250.3	7,500.0	7,657.7	7,461.0	53.1	30.1	90.00	1,976.4	1,878.7	966.7	885.7	81.00	11.936		
10,300.0	7,500.0	7,657.7	7,461.0	53.9	30.1	90.00	1,976.4	1,878.7	999.1	917.9	81.19	12.306		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
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		
7,750.0	7,453.9	7,521.5	7,414.9	24.1	24.0	71.58	738.0	1,881.7	994.1	956.6	37.60	26.442		
7,800.0	7,469.8	7,537.4	7,430.8	24.2	24.0	76.19	738.0	1,881.7	962.3	925.8	36.58	26.311		
7,850.0	7,482.4	7,550.0	7,443.4	24.4	24.0	80.38	738.0	1,881.7	931.7	896.2	35.50	26.245		
7,900.0	7,491.6	7,559.3	7,452.6	24.7	24.0	84.04	738.0	1,881.7	902.7	868.3	34.41	26.238		
7,950.0	7,497.5	7,565.1	7,458.5	24.9	24.0	87.12	738.0	1,881.7	875.8	842.4	33.34	26.269		
8,000.0	7,499.9	7,567.6	7,460.9	25.2	24.0	89.57	738.0	1,881.7	851.2	818.8	32.36	26.303		
8,010.3	7,500.0	7,567.6	7,461.0	25.2	24.0	90.00	738.0	1,881.7	846.5	814.3	32.18	26.306		
8,100.0	7,500.0	7,567.6	7,461.0	25.8	24.0	90.00	738.0	1,881.7	809.8	778.8	30.97	26.147		
8,200.0	7,500.0	7,567.6	7,461.0	26.5	24.0	90.00	738.0	1,881.7	779.2	748.5	30.70	25.381		
8,300.0	7,500.0	7,567.6	7,461.0	27.3	24.0	90.00	738.0	1,881.7	760.5	728.8	31.66	24.018		
8,393.6	7,500.0	7,567.6	7,461.0	28.1	24.0	90.00	738.0	1,881.7	754.7	721.2	33.53	22.511 CC		
8,400.0	7,500.0	7,567.6	7,461.0	28.2	24.0	90.00	738.0	1,881.7	754.7	721.1	33.68	22.409 ES		
8,500.0	7,500.0	7,567.6	7,461.0	29.1	24.0	90.00	738.0	1,881.7	762.2	725.7	36.44	20.914		
8,600.0	7,500.0	7,567.6	7,461.0	30.2	24.0	90.00	738.0	1,881.7	782.4	742.8	39.63	19.746		
8,700.0	7,500.0	7,567.6	7,461.0	31.3	24.0	90.00	738.0	1,881.7	814.5	771.6	42.90	18.987		
8,800.0	7,500.0	7,567.6	7,461.0	32.4	24.0	90.00	738.0	1,881.7	857.2	811.2	46.00	18.634 SF		
8,900.0	7,500.0	7,567.6	7,461.0	33.6	24.0	90.00	738.0	1,881.7	908.9	860.1	48.76	18.640		
9,000.0	7,500.0	7,567.6	7,461.0	34.9	24.0	90.00	738.0	1,881.7	968.2	917.0	51.12	18.941		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 70-Geolink MWD														
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	53.58	195.2	264.7	329.0					
100.0	100.0	88.1	88.1	0.1	0.1	53.61	195.4	265.1	329.4	329.1	0.28	1,193.207		
200.0	200.0	185.1	185.1	0.3	0.3	53.72	195.6	266.4	330.5	329.9	0.62	532.750		
300.0	300.0	283.3	283.2	0.5	0.5	54.24	194.2	269.7	332.5	331.5	0.98	340.851		
350.0	350.0	332.0	331.8	0.6	0.6	54.69	192.9	272.4	333.9	332.7	1.16	288.604		
400.0	400.0	376.8	376.5	0.7	0.7	-54.42	191.4	275.5	335.6	334.3	1.34	250.662		
500.0	500.0	473.3	472.5	0.8	0.9	-53.15	187.0	284.4	339.7	338.0	1.73	195.900		
600.0	599.9	568.2	566.5	1.0	1.2	-51.71	180.8	295.2	343.6	341.5	2.16	159.386		
700.0	699.8	660.9	657.9	1.2	1.5	-50.07	173.4	308.6	348.6	346.0	2.61	133.489		
800.0	799.5	752.8	747.9	1.4	1.9	-48.24	164.5	324.9	354.8	351.7	3.09	114.843		
900.0	899.2	843.3	836.2	1.6	2.2	-46.54	156.0	343.1	362.5	358.9	3.57	101.463		
1,000.0	998.6	937.6	927.7	1.9	2.7	-44.88	147.3	364.0	371.2	367.1	4.09	90.727		
1,100.0	1,097.9	1,028.9	1,015.7	2.1	3.2	-43.12	136.8	386.4	380.2	375.6	4.63	82.102		
1,200.0	1,196.9	1,115.6	1,098.1	2.4	3.7	-41.22	125.3	410.7	391.2	386.0	5.17	75.713		
1,300.0	1,295.7	1,202.6	1,179.6	2.7	4.2	-39.29	112.9	438.1	404.3	398.6	5.71	70.853		
1,364.2	1,358.9	1,259.6	1,232.7	2.9	4.6	-38.03	104.4	457.5	413.6	407.5	6.06	68.245		
1,400.0	1,394.2	1,292.2	1,262.7	3.0	4.9	-37.34	99.4	468.8	419.0	412.8	6.26	66.916		
1,500.0	1,492.6	1,386.5	1,349.2	3.4	5.6	-35.20	83.4	502.9	435.5	428.7	6.83	63.747		
1,600.0	1,591.0	1,483.9	1,437.9	3.7	6.3	-32.90	65.1	538.6	452.8	445.4	7.39	61.309		
1,700.0	1,689.5	1,576.4	1,522.3	4.0	7.0	-30.92	48.1	572.7	471.0	463.2	7.85	59.966		
1,800.0	1,787.9	1,670.1	1,607.8	4.4	7.8	-29.29	33.0	607.8	490.6	482.3	8.31	59.075		
1,900.0	1,886.3	1,764.7	1,694.1	4.7	8.5	-27.82	18.2	643.7	511.2	502.4	8.75	58.413		
2,000.0	1,984.8	1,855.3	1,776.5	5.1	9.2	-26.51	4.1	678.8	532.9	523.8	9.15	58.256		
2,100.0	2,083.2	1,960.5	1,872.0	5.4	10.0	-25.06	-12.6	719.5	554.9	545.3	9.62	57.701		
2,200.0	2,181.7	2,074.7	1,976.6	5.8	10.9	-23.55	-31.8	761.1	574.7	564.6	10.10	56.914		
2,300.0	2,280.1	2,173.5	2,067.8	6.1	11.6	-22.37	-48.1	795.2	592.9	582.4	10.49	56.524		
2,400.0	2,378.5	2,276.5	2,162.8	6.5	12.4	-21.16	-65.7	830.9	611.4	600.5	10.89	56.153		
2,500.0	2,477.0	2,390.0	2,268.2	6.8	13.1	-19.88	-85.5	868.1	628.1	616.8	11.30	55.597		
2,600.0	2,575.4	2,489.7	2,361.7	7.2	13.8	-19.07	-100.1	899.5	643.6	631.9	11.64	55.284		
2,700.0	2,673.8	2,592.0	2,457.9	7.5	14.4	-18.46	-113.1	931.9	659.3	647.3	12.02	54.874		
2,800.0	2,772.3	2,707.9	2,567.4	7.9	15.1	-17.75	-128.4	966.4	673.2	660.8	12.43	54.139		
2,900.0	2,870.7	2,792.4	2,647.5	8.2	15.7	-17.23	-139.8	991.2	686.7	674.0	12.72	53.969		
3,000.0	2,969.2	2,904.7	2,753.4	8.6	16.4	-16.50	-155.7	1,024.7	700.9	687.8	13.12	53.402		
3,100.0	3,067.6	3,007.0	2,850.0	8.9	17.0	-15.63	-173.1	1,053.6	713.7	700.3	13.45	53.063		
3,200.0	3,166.0	3,107.2	2,945.0	9.3	17.6	-14.93	-188.4	1,081.4	726.0	712.3	13.76	52.772		
3,300.0	3,264.5	3,197.1	3,030.2	9.6	18.1	-14.43	-201.0	1,107.2	739.2	725.1	14.06	52.578		
3,400.0	3,362.9	3,288.9	3,116.7	10.0	18.7	-13.80	-215.7	1,134.3	753.6	739.2	14.34	52.541		
3,500.0	3,461.3	3,384.7	3,206.9	10.3	19.3	-13.19	-230.5	1,163.2	768.6	754.0	14.63	52.553		
3,600.0	3,559.8	3,489.0	3,305.2	10.7	20.0	-12.76	-244.1	1,194.9	783.7	768.7	14.96	52.384		
3,700.0	3,658.2	3,597.1	3,407.7	11.1	20.6	-12.33	-258.1	1,226.6	797.7	782.3	15.32	52.058		
3,800.0	3,756.7	3,692.5	3,498.0	11.4	21.2	-11.94	-270.6	1,254.2	811.3	795.7	15.62	51.940		
3,900.0	3,855.1	3,785.2	3,585.8	11.8	21.8	-11.59	-282.7	1,281.8	825.8	809.9	15.92	51.868		
4,000.0	3,953.5	3,882.6	3,677.9	12.1	22.4	-11.18	-296.1	1,310.5	840.1	823.9	16.22	51.780		
4,100.0	4,052.0	3,962.0	3,752.5	12.5	22.9	-10.90	-306.7	1,335.4	856.3	839.8	16.46	52.014		
4,200.0	4,150.4	4,069.4	3,853.2	12.8	23.6	-10.60	-320.1	1,370.2	873.6	856.7	16.82	51.921		
4,300.0	4,248.8	4,198.5	3,975.3	13.2	24.4	-10.10	-338.0	1,407.9	887.7	870.5	17.23	51.525		
4,400.0	4,347.3	4,270.3	4,043.4	13.5	24.9	-9.89	-347.0	1,429.0	901.9	884.4	17.44	51.701		
4,500.0	4,445.7	4,340.8	4,109.5	13.9	25.4	-9.74	-355.5	1,452.0	919.3	901.6	17.67	52.035		
4,600.0	4,544.2	4,430.5	4,192.8	14.3	26.0	-9.49	-367.6	1,483.1	939.1	921.1	17.95	52.327		
4,700.0	4,642.6	4,574.7	4,327.8	14.6	26.9	-9.10	-386.6	1,529.9	956.6	938.2	18.43	51.901		
4,800.0	4,741.0	4,675.8	4,423.4	15.0	27.5	-8.86	-399.0	1,560.2	971.4	952.7	18.76	51.785		
4,900.0	4,839.5	4,772.3	4,514.7	15.3	28.1	-8.59	-411.8	1,589.1	986.3	967.3	19.07	51.726		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 70-Geolink MWD														
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		
6,300.0	6,217.6	6,489.2	6,192.5	20.3	34.0	-6.35	-550.1	1,864.4	988.2	964.3	23.98	41.211		
6,400.0	6,316.0	6,591.0	6,294.2	20.7	34.1	-6.51	-549.7	1,866.1	972.2	947.9	24.35	39.929		
6,500.0	6,414.5	6,696.4	6,399.7	21.0	34.2	-6.70	-548.9	1,867.3	955.7	931.0	24.72	38.662		
6,600.0	6,512.9	6,798.1	6,501.3	21.4	34.2	-6.90	-548.0	1,867.9	938.6	913.5	25.10	37.399		
6,700.0	6,611.3	6,897.7	6,601.0	21.7	34.3	-7.09	-547.1	1,868.3	921.3	895.8	25.48	36.160		
6,800.0	6,709.8	6,997.1	6,700.3	22.1	34.4	-7.30	-546.1	1,868.6	903.9	878.1	25.86	34.948		
6,843.8	6,752.9	7,040.6	6,743.8	22.3	34.4	-7.39	-545.6	1,868.8	896.3	870.3	26.04	34.426		
6,850.0	6,759.0	7,046.7	6,750.0	22.3	34.4	-4.65	-545.5	1,868.8	895.2	869.1	26.06	34.353		
6,900.0	6,808.3	7,096.5	6,799.7	22.4	34.4	19.23	-545.0	1,868.9	886.9	860.7	26.19	33.858		
6,950.0	6,857.5	7,146.2	6,849.4	22.6	34.4	41.27	-544.4	1,869.0	879.3	853.1	26.25	33.501		
7,000.0	6,906.4	7,195.6	6,898.8	22.7	34.5	57.53	-543.9	1,869.0	872.5	846.3	26.23	33.271		
7,050.0	6,954.8	7,244.5	6,947.8	22.8	34.5	68.80	-543.3	1,869.1	866.7	840.5	26.15	33.148		
7,100.0	7,002.3	7,293.0	6,996.2	22.9	34.5	76.85	-542.7	1,869.1	861.9	835.8	26.03	33.105		
7,150.0	7,048.9	7,340.6	7,043.8	23.0	34.5	82.94	-542.1	1,869.0	858.3	832.4	25.92	33.110		
7,200.0	7,094.2	7,386.9	7,090.1	23.1	34.6	87.78	-541.6	1,869.0	856.2	830.3	25.85	33.120		
7,236.6	7,126.5	7,420.0	7,123.2	23.1	34.6	90.77	-541.2	1,868.9	855.7	829.9	25.85	33.097		
7,250.0	7,138.1	7,431.8	7,135.0	23.1	34.6	91.77	-541.0	1,868.8	855.8	829.9	25.87	33.084		
7,300.0	7,180.2	7,474.4	7,177.7	23.2	34.6	95.12	-540.5	1,868.7	857.3	831.3	26.02	32.952		
7,350.0	7,220.5	7,515.2	7,218.4	23.3	34.6	97.96	-540.1	1,868.5	861.0	834.7	26.34	32.688		
7,400.0	7,258.7	7,553.8	7,257.1	23.3	34.7	100.36	-539.7	1,868.3	867.2	840.3	26.87	32.271		
7,450.0	7,294.7	7,590.2	7,293.4	23.4	34.7	102.35	-539.4	1,868.2	876.0	848.4	27.63	31.708		
7,500.0	7,328.2	7,623.9	7,327.1	23.5	34.7	103.92	-539.1	1,868.0	887.7	859.0	28.61	31.029		
7,550.0	7,359.1	7,654.7	7,357.9	23.5	34.7	105.07	-538.8	1,867.8	902.2	872.4	29.79	30.286		
7,600.0	7,387.2	7,682.8	7,386.0	23.6	34.7	105.78	-538.6	1,867.6	919.8	888.7	31.14	29.534		
7,650.0	7,412.5	7,707.9	7,411.1	23.8	34.7	106.03	-538.4	1,867.5	940.4	907.8	32.62	28.825		
7,700.0	7,434.7	7,730.1	7,433.3	23.9	34.8	105.79	-538.3	1,867.4	963.9	929.7	34.19	28.196		
7,750.0	7,453.9	7,749.1	7,452.3	24.1	34.8	105.02	-538.2	1,867.3	990.3	954.5	35.78	27.675 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	2.0	2.0	0.0	0.0	-89.78	0.7	-190.0	190.0					
100.0	100.0	102.0	102.0	0.1	0.2	-89.78	0.7	-190.0	190.0	189.7	0.30	632.841		
116.0	116.0	118.0	118.0	0.2	0.2	-89.78	0.7	-190.0	190.0	189.6	0.36	533.643	CC	
200.0	200.0	201.9	201.9	0.3	0.3	-89.78	0.7	-190.0	190.0	189.3	0.65	292.653	ES	
300.0	300.0	300.0	300.0	0.5	0.5	-89.71	1.0	-190.8	190.8	189.8	0.99	191.813		
350.0	350.0	347.3	347.2	0.6	0.6	-89.63	1.2	-191.8	191.9	190.7	1.16	164.744		
400.0	400.0	395.7	395.6	0.7	0.7	160.88	1.6	-193.2	193.5	192.2	1.34	144.810		
500.0	500.0	492.3	492.1	0.8	0.9	161.32	2.7	-197.2	199.3	197.6	1.68	118.640		
600.0	599.9	588.5	588.2	1.0	1.0	161.99	4.2	-202.7	208.3	206.3	2.02	103.002		
700.0	699.8	686.7	686.2	1.2	1.2	162.81	6.1	-209.5	220.3	217.9	2.37	92.946		
800.0	799.5	785.7	784.9	1.4	1.4	163.67	8.0	-216.4	234.0	231.3	2.72	86.051		
900.0	899.2	884.5	883.4	1.6	1.7	164.54	9.9	-223.3	249.5	246.4	3.07	81.293		
1,000.0	998.6	982.9	981.6	1.9	1.9	165.39	11.8	-230.2	266.7	263.2	3.42	78.020		
1,100.0	1,097.9	1,081.0	1,079.4	2.1	2.1	166.22	13.7	-237.1	285.6	281.8	3.77	75.822		
1,200.0	1,196.9	1,178.8	1,176.9	2.4	2.3	167.01	15.6	-243.9	306.2	302.1	4.11	74.429		
1,300.0	1,295.7	1,276.1	1,274.0	2.7	2.5	167.77	17.5	-250.7	328.5	324.1	4.46	73.653		
1,364.2	1,358.9	1,338.4	1,336.1	2.9	2.6	168.23	18.7	-255.1	343.8	339.1	4.68	73.419		
1,400.0	1,394.2	1,373.1	1,370.8	3.0	2.7	168.49	19.4	-257.5	352.5	347.7	4.81	73.344		
1,500.0	1,492.6	1,470.0	1,467.4	3.4	2.9	169.16	21.2	-264.3	376.8	371.7	5.15	73.166		
1,600.0	1,591.0	1,566.9	1,564.1	3.7	3.1	169.75	23.1	-271.0	401.2	395.7	5.49	73.026		
1,700.0	1,689.5	1,663.8	1,660.7	4.0	3.3	170.27	25.0	-277.8	425.6	419.8	5.84	72.914		
1,800.0	1,787.9	1,760.7	1,757.4	4.4	3.5	170.73	26.8	-284.6	450.1	443.9	6.18	72.825		
1,900.0	1,886.3	1,857.6	1,854.0	4.7	3.7	171.15	28.7	-291.4	474.5	468.0	6.52	72.752		
2,000.0	1,984.8	1,954.5	1,950.7	5.1	3.9	171.52	30.6	-298.2	499.0	492.2	6.87	72.693		
2,100.0	2,083.2	2,051.5	2,047.3	5.4	4.2	171.86	32.4	-304.9	523.6	516.4	7.21	72.645		
2,200.0	2,181.7	2,148.4	2,144.0	5.8	4.4	172.17	34.3	-311.7	548.1	540.5	7.55	72.605		
2,300.0	2,280.1	2,245.3	2,240.6	6.1	4.6	172.46	36.2	-318.5	572.6	564.7	7.89	72.571		
2,400.0	2,378.5	2,342.2	2,337.2	6.5	4.8	172.72	38.1	-325.3	597.2	589.0	8.23	72.543		
2,500.0	2,477.0	2,439.1	2,433.9	6.8	5.0	172.96	39.9	-332.1	621.8	613.2	8.57	72.520		
2,600.0	2,575.4	2,536.0	2,530.5	7.2	5.2	173.18	41.8	-338.8	646.3	637.4	8.91	72.500		
2,700.0	2,673.8	2,632.9	2,627.2	7.5	5.4	173.38	43.7	-345.6	670.9	661.7	9.26	72.483		
2,800.0	2,772.3	2,729.8	2,723.8	7.9	5.6	173.58	45.5	-352.4	695.5	685.9	9.60	72.469		
2,900.0	2,870.7	2,826.7	2,820.5	8.2	5.8	173.75	47.4	-359.2	720.1	710.2	9.94	72.457		
3,000.0	2,969.2	2,923.6	2,917.1	8.6	6.0	173.92	49.3	-365.9	744.7	734.4	10.28	72.446		
3,100.0	3,067.6	3,020.5	3,013.8	8.9	6.2	174.07	51.1	-372.7	769.3	758.7	10.62	72.437		
3,200.0	3,166.0	3,117.4	3,110.4	9.3	6.4	174.22	53.0	-379.5	793.9	783.0	10.96	72.430		
3,300.0	3,264.5	3,214.3	3,207.1	9.6	6.7	174.36	54.9	-386.3	818.6	807.3	11.30	72.423		
3,400.0	3,362.9	3,311.2	3,303.7	10.0	6.9	174.49	56.8	-393.1	843.2	831.5	11.64	72.417		
3,500.0	3,461.3	3,408.1	3,400.4	10.3	7.1	174.61	58.6	-399.8	867.8	855.8	11.98	72.412		
3,600.0	3,559.8	3,505.0	3,497.0	10.7	7.3	174.72	60.5	-406.6	892.5	880.1	12.33	72.408		
3,700.0	3,658.2	3,601.9	3,593.7	11.1	7.5	174.83	62.4	-413.4	917.1	904.4	12.67	72.404		
3,800.0	3,756.7	3,698.8	3,690.3	11.4	7.7	174.93	64.2	-420.2	941.7	928.7	13.01	72.401		
3,900.0	3,855.1	3,795.7	3,787.0	11.8	7.9	175.03	66.1	-427.0	966.4	953.0	13.35	72.398		
4,000.0	3,953.5	3,892.6	3,883.6	12.1	8.1	175.13	68.0	-433.7	991.0	977.3	13.69	72.395	SF	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4B-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	1.0	1.0	0.0	0.0	-89.78	0.7	-180.2	180.2					
100.0	100.0	101.0	101.0	0.1	0.2	-89.78	0.7	-180.2	180.2	179.9	0.30	603.730		
200.0	200.0	201.0	201.0	0.3	0.3	-89.78	0.7	-180.2	180.2	179.5	0.65	278.269		
216.3	216.3	217.3	217.3	0.4	0.4	-89.78	0.7	-180.2	180.2	179.5	0.70	255.755 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.78	0.7	-180.2	180.2	179.2	0.99	181.124 ES		
350.0	350.0	349.3	349.3	0.6	0.6	-89.75	0.8	-180.4	180.4	179.3	1.17	154.443		
400.0	400.0	397.7	397.6	0.7	0.7	160.73	1.0	-181.1	181.3	180.0	1.34	135.338		
500.0	500.0	494.2	494.1	0.8	0.8	161.20	2.1	-183.7	185.7	184.1	1.68	110.358		
600.0	599.9	592.3	592.1	1.0	1.0	161.98	3.7	-188.0	193.4	191.4	2.03	95.267		
700.0	699.8	691.8	691.5	1.2	1.2	162.87	5.5	-192.4	202.9	200.6	2.38	85.253		
800.0	799.5	791.1	790.7	1.4	1.4	163.81	7.3	-196.9	214.2	211.5	2.73	78.434		
900.0	899.2	890.2	889.7	1.6	1.6	164.76	9.0	-201.4	227.2	224.1	3.08	73.729		
1,000.0	998.6	989.0	988.4	1.9	1.8	165.71	10.8	-205.8	241.9	238.4	3.43	70.496		
1,100.0	1,097.9	1,087.5	1,086.8	2.1	2.0	166.63	12.5	-210.3	258.3	254.6	3.78	68.331		
1,200.0	1,196.9	1,185.8	1,184.9	2.4	2.2	167.52	14.2	-214.7	276.5	272.4	4.13	66.966		
1,300.0	1,295.7	1,283.7	1,282.7	2.7	2.3	168.36	16.0	-219.1	296.5	292.0	4.48	66.215		
1,364.2	1,358.9	1,346.3	1,345.3	2.9	2.5	168.87	17.1	-221.9	310.2	305.5	4.70	65.996		
1,400.0	1,394.2	1,381.2	1,380.1	3.0	2.5	169.16	17.7	-223.5	318.0	313.2	4.82	65.929		
1,500.0	1,492.6	1,478.7	1,477.5	3.4	2.7	169.89	19.4	-227.8	340.0	334.8	5.17	65.771		
1,600.0	1,591.0	1,576.2	1,574.9	3.7	2.9	170.53	21.1	-232.2	362.0	356.5	5.51	65.649		
1,700.0	1,689.5	1,673.6	1,672.2	4.0	3.1	171.10	22.9	-236.6	384.0	378.2	5.86	65.554		
1,800.0	1,787.9	1,771.1	1,769.6	4.4	3.3	171.61	24.6	-241.0	406.1	399.9	6.20	65.480		
1,900.0	1,886.3	1,868.6	1,866.9	4.7	3.5	172.07	26.3	-245.4	428.2	421.7	6.55	65.421		
2,000.0	1,984.8	1,966.1	1,964.3	5.1	3.7	172.48	28.0	-249.8	450.4	443.5	6.89	65.374		
2,100.0	2,083.2	2,063.5	2,061.6	5.4	3.8	172.85	29.7	-254.2	472.5	465.3	7.23	65.337		
2,200.0	2,181.7	2,161.0	2,159.0	5.8	4.0	173.19	31.5	-258.5	494.7	487.1	7.57	65.307		
2,300.0	2,280.1	2,258.5	2,256.4	6.1	4.2	173.50	33.2	-262.9	516.9	508.9	7.92	65.283		
2,400.0	2,378.5	2,355.9	2,353.7	6.5	4.4	173.79	34.9	-267.3	539.1	530.8	8.26	65.263		
2,500.0	2,477.0	2,453.4	2,451.1	6.8	4.6	174.05	36.6	-271.7	561.3	552.7	8.60	65.248		
2,600.0	2,575.4	2,550.9	2,548.4	7.2	4.8	174.29	38.4	-276.1	583.5	574.5	8.94	65.235		
2,700.0	2,673.8	2,648.4	2,645.8	7.5	5.0	174.52	40.1	-280.5	605.7	596.4	9.29	65.224		
2,800.0	2,772.3	2,745.8	2,743.2	7.9	5.2	174.73	41.8	-284.8	627.9	618.3	9.63	65.216		
2,900.0	2,870.7	2,843.3	2,840.5	8.2	5.4	174.92	43.5	-289.2	650.2	640.2	9.97	65.209		
3,000.0	2,969.2	2,940.8	2,937.9	8.6	5.5	175.10	45.2	-293.6	672.4	662.1	10.31	65.204		
3,100.0	3,067.6	3,038.2	3,035.2	8.9	5.7	175.27	47.0	-298.0	694.7	684.0	10.65	65.200		
3,200.0	3,166.0	3,135.7	3,132.6	9.3	5.9	175.43	48.7	-302.4	717.0	706.0	11.00	65.196		
3,300.0	3,264.5	3,233.2	3,229.9	9.6	6.1	175.58	50.4	-306.8	739.2	727.9	11.34	65.194		
3,400.0	3,362.9	3,330.7	3,327.3	10.0	6.3	175.72	52.1	-311.1	761.5	749.8	11.68	65.191		
3,500.0	3,461.3	3,428.1	3,424.7	10.3	6.5	175.86	53.9	-315.5	783.8	771.7	12.02	65.190		
3,600.0	3,559.8	3,525.6	3,522.0	10.7	6.7	175.98	55.6	-319.9	806.0	793.7	12.36	65.189		
3,700.0	3,658.2	3,623.1	3,619.4	11.1	6.9	176.10	57.3	-324.3	828.3	815.6	12.71	65.188		
3,800.0	3,756.7	3,720.5	3,716.7	11.4	7.1	176.21	59.0	-328.7	850.6	837.6	13.05	65.187		
3,900.0	3,855.1	3,818.0	3,814.1	11.8	7.2	176.32	60.7	-333.1	872.9	859.5	13.39	65.187		
4,000.0	3,953.5	3,915.5	3,911.5	12.1	7.4	176.42	62.5	-337.5	895.2	881.5	13.73	65.187 SF		
4,100.0	4,052.0	4,013.0	4,008.8	12.5	7.6	176.52	64.2	-341.8	917.5	903.4	14.07	65.187		
4,200.0	4,150.4	4,110.4	4,106.2	12.8	7.8	176.61	65.9	-346.2	939.8	925.4	14.42	65.187		
4,300.0	4,248.8	4,207.9	4,203.5	13.2	8.0	176.70	67.6	-350.6	962.1	947.3	14.76	65.188		
4,400.0	4,347.3	4,305.4	4,300.9	13.5	8.2	176.78	69.4	-355.0	984.4	969.3	15.10	65.188		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4C-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	1.0	1.0	0.0	0.0	-89.79	0.6	-170.1	170.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.79	0.6	-170.1	170.1	169.8	0.30	569.981		
200.0	200.0	201.0	201.0	0.3	0.3	-89.79	0.6	-170.1	170.1	169.5	0.65	262.714		
216.3	216.3	217.3	217.3	0.4	0.4	-89.79	0.6	-170.1	170.1	169.4	0.70	241.458	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-89.79	0.6	-170.1	170.1	169.1	0.99	170.999	ES	
350.0	350.0	349.8	349.8	0.6	0.6	-89.75	0.8	-170.3	170.3	169.1	1.17	145.669		
400.0	400.0	398.6	398.6	0.7	0.7	160.77	1.1	-170.8	171.0	169.7	1.34	127.497		
500.0	500.0	497.2	497.2	0.8	0.8	161.38	2.4	-172.8	174.7	173.0	1.69	103.416		
600.0	599.9	597.0	597.0	1.0	1.0	162.16	3.9	-174.9	180.2	178.1	2.04	88.350		
700.0	699.8	696.7	696.6	1.2	1.2	163.06	5.3	-177.0	187.4	185.0	2.39	78.400		
800.0	799.5	796.3	796.1	1.4	1.4	164.02	6.8	-179.2	196.3	193.6	2.74	71.615		
900.0	899.2	895.6	895.5	1.6	1.6	165.02	8.2	-181.3	206.9	203.8	3.09	66.929		
1,000.0	998.6	994.8	994.6	1.9	1.7	166.03	9.7	-183.5	219.3	215.9	3.44	63.707		
1,100.0	1,097.9	1,093.7	1,093.5	2.1	1.9	167.02	11.1	-185.6	233.5	229.7	3.79	61.549		
1,200.0	1,196.9	1,192.3	1,192.1	2.4	2.1	167.98	12.6	-187.7	249.4	245.2	4.14	60.188		
1,300.0	1,295.7	1,290.7	1,290.4	2.7	2.3	168.89	14.0	-189.8	267.0	262.5	4.49	59.442		
1,364.2	1,358.9	1,353.6	1,353.3	2.9	2.4	169.45	14.9	-191.2	279.2	274.5	4.72	59.224		
1,400.0	1,394.2	1,388.7	1,388.4	3.0	2.4	169.76	15.4	-192.0	286.3	281.4	4.84	59.157		
1,500.0	1,492.6	1,486.7	1,486.3	3.4	2.6	170.55	16.9	-194.1	306.0	300.8	5.19	59.001		
1,600.0	1,591.0	1,584.6	1,584.2	3.7	2.8	171.24	18.3	-196.2	325.7	320.2	5.53	58.880		
1,700.0	1,689.5	1,682.6	1,682.2	4.0	3.0	171.85	19.7	-198.3	345.5	339.6	5.88	58.785		
1,800.0	1,787.9	1,780.6	1,780.1	4.4	3.2	172.40	21.2	-200.4	365.3	359.1	6.22	58.711		
1,900.0	1,886.3	1,878.5	1,878.0	4.7	3.3	172.89	22.6	-202.5	385.2	378.6	6.57	58.652		
2,000.0	1,984.8	1,976.5	1,975.9	5.1	3.5	173.33	24.0	-204.6	405.0	398.1	6.91	58.605		
2,100.0	2,083.2	2,074.4	2,073.9	5.4	3.7	173.74	25.4	-206.7	424.9	417.7	7.26	58.567		
2,200.0	2,181.7	2,172.4	2,171.8	5.8	3.9	174.10	26.9	-208.8	444.8	437.2	7.60	58.536		
2,300.0	2,280.1	2,270.4	2,269.7	6.1	4.0	174.44	28.3	-210.9	464.7	456.8	7.94	58.511		
2,400.0	2,378.5	2,368.3	2,367.7	6.5	4.2	174.74	29.7	-213.0	484.7	476.4	8.29	58.490		
2,500.0	2,477.0	2,466.3	2,465.6	6.8	4.4	175.02	31.2	-215.2	504.6	496.0	8.63	58.473		
2,600.0	2,575.4	2,564.2	2,563.5	7.2	4.6	175.29	32.6	-217.3	524.6	515.6	8.97	58.459		
2,700.0	2,673.8	2,662.2	2,661.4	7.5	4.7	175.53	34.0	-219.4	544.6	535.2	9.32	58.447		
2,800.0	2,772.3	2,760.2	2,759.4	7.9	4.9	175.75	35.5	-221.5	564.5	554.9	9.66	58.438		
2,900.0	2,870.7	2,858.1	2,857.3	8.2	5.1	175.96	36.9	-223.6	584.5	574.5	10.00	58.429		
3,000.0	2,969.2	2,956.1	2,955.2	8.6	5.3	176.16	38.3	-225.7	604.5	594.2	10.35	58.422		
3,100.0	3,067.6	3,054.0	3,053.1	8.9	5.4	176.34	39.7	-227.8	624.5	613.8	10.69	58.416		
3,200.0	3,166.0	3,152.0	3,151.1	9.3	5.6	176.51	41.2	-229.9	644.5	633.5	11.03	58.411		
3,300.0	3,264.5	3,250.0	3,249.0	9.6	5.8	176.67	42.6	-232.0	664.5	653.2	11.38	58.407		
3,400.0	3,362.9	3,347.9	3,346.9	10.0	6.0	176.83	44.0	-234.1	684.6	672.8	11.72	58.403		
3,500.0	3,461.3	3,445.9	3,444.9	10.3	6.2	176.97	45.5	-236.3	704.6	692.5	12.06	58.400		
3,600.0	3,559.8	3,543.8	3,542.8	10.7	6.3	177.10	46.9	-238.4	724.6	712.2	12.41	58.398		
3,700.0	3,658.2	3,641.8	3,640.7	11.1	6.5	177.23	48.3	-240.5	744.6	731.9	12.75	58.395		
3,800.0	3,756.7	3,739.8	3,738.6	11.4	6.7	177.35	49.8	-242.6	764.7	751.6	13.10	58.393		
3,900.0	3,855.1	3,837.7	3,836.6	11.8	6.9	177.47	51.2	-244.7	784.7	771.3	13.44	58.391		
4,000.0	3,953.5	3,935.7	3,934.5	12.1	7.0	177.58	52.6	-246.8	804.7	791.0	13.78	58.390		
4,100.0	4,052.0	4,033.7	4,032.4	12.5	7.2	177.68	54.0	-248.9	824.8	810.6	14.13	58.389		
4,200.0	4,150.4	4,131.6	4,130.3	12.8	7.4	177.78	55.5	-251.0	844.8	830.3	14.47	58.387		
4,300.0	4,248.8	4,229.6	4,228.3	13.2	7.6	177.88	56.9	-253.1	864.9	850.0	14.81	58.386		
4,400.0	4,347.3	4,327.5	4,326.2	13.5	7.7	177.97	58.3	-255.2	884.9	869.8	15.16	58.386		
4,500.0	4,445.7	4,425.5	4,424.1	13.9	7.9	178.05	59.8	-257.4	905.0	889.5	15.50	58.385		
4,600.0	4,544.2	4,523.5	4,522.1	14.3	8.1	178.14	61.2	-259.5	925.0	909.2	15.84	58.384		
4,700.0	4,642.6	4,621.4	4,620.0	14.6	8.3	178.22	62.6	-261.6	945.1	928.9	16.19	58.383		
4,800.0	4,741.0	4,719.4	4,717.9	15.0	8.4	178.29	64.1	-263.7	965.1	948.6	16.53	58.383		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4C-32H-O268 - OH - 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	
4,900.0	4,839.5	4,817.3	4,815.8	15.3	8.6	178.36	65.5	-265.8	985.2	968.3	16.87	58.382 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - 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)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.79	0.6	-160.0	160.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.79	0.6	-160.0	160.0	159.7	0.30	536.232		
200.0	200.0	201.0	201.0	0.3	0.3	-89.79	0.6	-160.0	160.0	159.4	0.65	247.158		
300.0	300.0	301.0	301.0	0.5	0.5	-89.79	0.6	-160.0	160.0	159.0	1.00	160.588		
350.0	350.0	351.0	351.0	0.6	0.6	-89.79	0.6	-160.0	160.0	158.9	1.17	136.655 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	160.61	0.6	-160.0	160.2	158.9	1.35	119.079		
500.0	500.0	503.9	503.9	0.8	0.9	160.82	0.6	-159.1	161.0	159.3	1.70	94.702		
600.0	599.9	606.8	606.8	1.0	1.0	161.24	0.6	-156.3	161.6	159.5	2.05	78.653		
700.0	699.8	709.7	709.5	1.2	1.2	161.87	0.5	-151.7	162.0	159.6	2.41	67.262		
800.0	799.5	810.2	809.9	1.4	1.4	162.68	0.5	-145.9	163.0	160.2	2.76	59.015		
900.0	899.2	910.1	909.7	1.6	1.6	163.65	0.5	-140.2	165.6	162.4	3.11	53.171		
1,000.0	998.6	1,010.0	1,009.4	1.9	1.8	164.73	0.5	-134.4	169.9	166.4	3.47	49.007		
1,100.0	1,097.9	1,109.7	1,108.9	2.1	2.0	165.90	0.5	-128.7	176.0	172.2	3.82	46.068		
1,200.0	1,196.9	1,209.4	1,208.4	2.4	2.2	167.11	0.5	-123.0	183.8	179.6	4.17	44.051		
1,300.0	1,295.7	1,308.8	1,307.7	2.7	2.4	168.32	0.4	-117.2	193.4	188.9	4.53	42.747		
1,364.2	1,358.9	1,372.5	1,371.3	2.9	2.5	169.08	0.4	-113.6	200.6	195.8	4.75	42.214		
1,400.0	1,394.2	1,408.1	1,406.8	3.0	2.6	169.50	0.4	-111.5	204.7	199.9	4.88	41.983		
1,500.0	1,492.6	1,507.3	1,505.9	3.4	2.8	170.59	0.4	-105.8	216.5	211.3	5.23	41.413		
1,600.0	1,591.0	1,606.6	1,604.9	3.7	3.0	171.56	0.4	-100.1	228.3	222.7	5.58	40.931		
1,700.0	1,689.5	1,705.8	1,704.0	4.0	3.2	172.44	0.4	-94.4	240.1	234.2	5.93	40.519		
1,800.0	1,787.9	1,805.0	1,803.0	4.4	3.4	173.24	0.3	-88.7	252.1	245.8	6.28	40.163		
1,900.0	1,886.3	1,904.2	1,902.1	4.7	3.6	173.96	0.3	-83.0	264.0	257.4	6.62	39.852		
2,000.0	1,984.8	2,003.5	2,001.2	5.1	3.8	174.63	0.3	-77.3	276.0	269.0	6.97	39.577		
2,100.0	2,083.2	2,102.7	2,100.2	5.4	4.0	175.23	0.3	-71.6	288.0	280.7	7.32	39.333		
2,200.0	2,181.7	2,201.9	2,199.3	5.8	4.2	175.79	0.3	-65.9	300.1	292.4	7.67	39.113		
2,300.0	2,280.1	2,301.2	2,298.4	6.1	4.4	176.31	0.3	-60.2	312.2	304.2	8.02	38.916		
2,400.0	2,378.5	2,400.4	2,397.4	6.5	4.6	176.78	0.2	-54.5	324.3	315.9	8.37	38.736		
2,500.0	2,477.0	2,499.6	2,496.5	6.8	4.8	177.23	0.2	-48.7	336.4	327.7	8.72	38.572		
2,600.0	2,575.4	2,598.8	2,595.6	7.2	5.0	177.64	0.2	-43.0	348.6	339.5	9.07	38.421		
2,700.0	2,673.8	2,698.1	2,694.6	7.5	5.2	178.02	0.2	-37.3	360.7	351.3	9.42	38.283		
2,800.0	2,772.3	2,797.3	2,793.7	7.9	5.4	178.38	0.2	-31.6	372.9	363.1	9.77	38.154		
2,900.0	2,870.7	2,896.5	2,892.8	8.2	5.6	178.72	0.1	-25.9	385.1	375.0	10.12	38.035		
3,000.0	2,969.2	2,995.8	2,991.8	8.6	5.8	179.03	0.1	-20.2	397.3	386.8	10.48	37.924		
3,100.0	3,067.6	3,095.0	3,090.9	8.9	6.0	179.33	0.1	-14.5	409.5	398.7	10.83	37.820		
3,200.0	3,166.0	3,194.2	3,190.0	9.3	6.2	179.61	0.1	-8.8	421.7	410.5	11.18	37.722		
3,300.0	3,264.5	3,293.5	3,289.0	9.6	6.4	179.87	0.1	-3.1	434.0	422.4	11.53	37.631		
3,400.0	3,362.9	3,392.7	3,388.1	10.0	6.6	-179.88	0.1	2.6	446.2	434.3	11.88	37.544		
3,500.0	3,461.3	3,491.9	3,487.2	10.3	6.8	-179.64	0.0	8.3	458.4	446.2	12.24	37.463		
3,600.0	3,559.8	3,591.1	3,586.2	10.7	7.0	-179.42	0.0	14.0	470.7	458.1	12.59	37.386		
3,700.0	3,658.2	3,690.4	3,685.3	11.1	7.2	-179.21	0.0	19.8	483.0	470.0	12.94	37.313		
3,800.0	3,756.7	3,789.6	3,784.4	11.4	7.4	-179.01	0.0	25.5	495.2	481.9	13.30	37.243		
3,900.0	3,855.1	3,888.8	3,883.4	11.8	7.6	-178.81	0.0	31.2	507.5	493.9	13.65	37.178		
4,000.0	3,953.5	3,988.1	3,982.5	12.1	7.8	-178.63	-0.1	36.9	519.8	505.8	14.01	37.115		
4,100.0	4,052.0	4,087.3	4,081.6	12.5	8.0	-178.46	-0.1	42.6	532.1	517.7	14.36	37.055		
4,200.0	4,150.4	4,186.5	4,180.6	12.8	8.2	-178.29	-0.1	48.3	544.4	529.7	14.71	36.998		
4,300.0	4,248.8	4,285.8	4,279.7	13.2	8.4	-178.13	-0.1	54.0	556.7	541.6	15.07	36.943		
4,400.0	4,347.3	4,385.0	4,378.7	13.5	8.6	-177.98	-0.1	59.7	569.0	553.5	15.42	36.891		
4,500.0	4,445.7	4,484.2	4,477.8	13.9	8.8	-177.83	-0.1	65.4	581.3	565.5	15.78	36.841		
4,600.0	4,544.2	4,583.4	4,576.9	14.3	9.0	-177.69	-0.2	71.1	593.6	577.4	16.13	36.793		
4,700.0	4,642.6	4,682.7	4,675.9	14.6	9.2	-177.56	-0.2	76.8	605.9	589.4	16.49	36.746		
4,800.0	4,741.0	4,781.9	4,775.0	15.0	9.4	-177.43	-0.2	82.5	618.2	601.4	16.84	36.702		
4,900.0	4,839.5	4,881.1	4,874.1	15.3	9.6	-177.30	-0.2	88.2	630.5	613.3	17.20	36.659		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,980.4	4,973.1	15.7	9.8	-177.19	-0.2	94.0	642.8	625.3	17.55	36.618		
5,100.0	5,036.3	5,079.6	5,072.2	16.0	10.0	-177.07	-0.3	99.7	655.2	637.2	17.91	36.579		
5,200.0	5,134.8	5,178.8	5,171.3	16.4	10.2	-176.96	-0.3	105.4	667.5	649.2	18.27	36.540		
5,300.0	5,233.2	5,278.0	5,270.3	16.7	10.4	-176.85	-0.3	111.1	679.8	661.2	18.62	36.504		
5,400.0	5,331.7	5,377.3	5,369.4	17.1	10.6	-176.75	-0.3	116.8	692.1	673.1	18.98	36.468		
5,500.0	5,430.1	5,476.5	5,468.5	17.5	10.8	-176.65	-0.3	122.5	704.5	685.1	19.34	36.434		
5,600.0	5,528.5	5,575.7	5,567.5	17.8	11.0	-176.56	-0.3	128.2	716.8	697.1	19.69	36.401		
5,700.0	5,627.0	5,675.0	5,666.6	18.2	11.2	-176.46	-0.4	133.9	729.1	709.1	20.05	36.368		
5,800.0	5,725.4	5,774.2	5,765.7	18.5	11.4	-176.38	-0.4	139.6	741.5	721.1	20.40	36.337		
5,900.0	5,823.8	5,873.4	5,864.7	18.9	11.6	-176.29	-0.4	145.3	753.8	733.0	20.76	36.307		
6,000.0	5,922.3	5,972.7	5,963.8	19.2	11.8	-176.21	-0.4	151.0	766.1	745.0	21.12	36.278		
6,100.0	6,020.7	6,071.9	6,062.9	19.6	12.0	-176.12	-0.4	156.7	778.5	757.0	21.48	36.250		
6,200.0	6,119.2	6,171.1	6,161.9	20.0	12.2	-176.05	-0.5	162.5	790.8	769.0	21.83	36.222		
6,300.0	6,217.6	6,270.3	6,261.0	20.3	12.4	-175.97	-0.5	168.2	803.2	781.0	22.19	36.196		
6,400.0	6,316.0	6,369.6	6,360.1	20.7	12.6	-175.90	-0.5	173.9	815.5	793.0	22.55	36.170		
6,500.0	6,414.5	6,468.8	6,459.1	21.0	12.8	-175.82	-0.5	179.6	827.9	805.0	22.90	36.145		
6,600.0	6,512.9	6,568.0	6,558.2	21.4	13.0	-175.76	-0.5	185.3	840.2	816.9	23.26	36.120		
6,700.0	6,611.3	6,667.3	6,657.3	21.7	13.2	-175.69	-0.5	191.0	852.6	828.9	23.62	36.096		
6,800.0	6,709.8	6,766.5	6,756.3	22.1	13.4	-175.62	-0.6	196.7	864.9	840.9	23.98	36.073		
6,843.8	6,752.9	6,809.9	6,799.7	22.3	13.4	-175.59	-0.6	199.2	870.3	846.2	24.13	36.063		
6,850.0	6,759.0	6,816.1	6,805.9	22.3	13.5	-172.86	-0.6	199.6	871.1	846.9	24.15	36.062		
6,900.0	6,808.3	6,865.8	6,855.5	22.4	13.6	-149.38	-0.6	202.4	876.4	852.0	24.33	36.015		
6,950.0	6,857.5	6,915.4	6,905.0	22.6	13.7	-128.22	-0.6	205.3	880.3	855.8	24.51	35.922		
7,000.0	6,906.4	6,964.7	6,954.2	22.7	13.8	-113.29	-0.6	208.1	882.9	858.2	24.67	35.785		
7,050.0	6,954.8	7,018.5	7,008.0	22.8	13.9	-103.86	-0.7	211.2	884.2	859.3	24.84	35.590		
7,100.0	7,002.3	7,104.9	7,093.9	22.9	14.0	-99.13	-0.7	216.2	883.0	858.0	25.03	35.278		
7,150.0	7,048.9	7,180.3	7,167.7	23.0	14.2	-97.17	-21.3	220.4	879.3	854.1	25.13	34.982		
7,200.0	7,094.2	7,243.0	7,227.8	23.1	14.3	-96.79	-39.0	223.9	874.1	848.9	25.22	34.654		
7,250.0	7,138.1	7,293.4	7,274.9	23.1	14.5	-97.15	-56.9	226.6	868.5	843.2	25.34	34.278		
7,300.0	7,180.2	7,332.7	7,310.6	23.2	14.6	-97.75	-73.2	228.6	863.5	838.0	25.49	33.874		
7,350.0	7,220.5	7,362.4	7,337.0	23.3	14.6	-98.26	-86.8	230.2	859.8	834.1	25.68	33.485		
7,400.0	7,258.7	7,384.2	7,355.9	23.3	14.7	-98.54	-97.4	231.2	857.9	832.0	25.88	33.152		
7,418.7	7,272.5	7,390.6	7,361.4	23.3	14.7	-98.56	-100.6	231.6	857.7	831.8	25.96	33.045		
7,450.0	7,294.7	7,399.4	7,368.9	23.4	14.8	-98.49	-105.2	232.0	858.2	832.1	26.07	32.913		
7,500.0	7,328.2	7,409.2	7,377.2	23.5	14.8	-98.10	-110.3	232.5	860.9	834.7	26.26	32.781		
7,550.0	7,359.1	7,414.5	7,381.7	23.5	14.8	-97.36	-113.1	232.7	866.2	839.8	26.43	32.773 SF		
7,600.0	7,387.2	7,416.1	7,383.1	23.6	14.8	-96.29	-114.0	232.8	874.0	847.5	26.57	32.892		
7,650.0	7,412.5	7,414.7	7,381.9	23.8	14.8	-94.91	-113.2	232.7	884.3	857.6	26.69	33.132		
7,700.0	7,434.7	7,410.7	7,378.6	23.9	14.8	-93.24	-111.1	232.6	896.9	870.1	26.79	33.483		
7,750.0	7,453.9	7,400.0	7,369.5	24.1	14.8	-91.03	-105.5	232.0	911.6	884.8	26.82	33.994		
7,800.0	7,469.8	7,400.0	7,369.5	24.2	14.8	-89.41	-105.5	232.0	928.2	901.2	26.97	34.417		
7,850.0	7,482.4	7,387.2	7,358.5	24.4	14.7	-86.89	-98.9	231.4	946.4	919.4	27.00	35.058		
7,900.0	7,491.6	7,376.4	7,349.2	24.7	14.7	-84.45	-93.5	230.9	966.0	939.0	27.05	35.706		
7,950.0	7,497.5	7,364.5	7,338.7	24.9	14.7	-81.93	-87.7	230.3	986.7	959.6	27.11	36.391		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	1.0	1.0	0.0	0.0	-89.72	0.7	-150.2	150.2					
100.0	100.0	101.0	101.0	0.1	0.2	-89.72	0.7	-150.2	150.2	149.9	0.30	503.423		
200.0	200.0	201.0	201.0	0.3	0.3	-89.72	0.7	-150.2	150.2	149.6	0.65	232.036		
300.0	300.0	301.0	301.0	0.5	0.5	-89.72	0.7	-150.2	150.2	149.3	1.00	150.763		
350.0	350.0	351.0	351.0	0.6	0.6	-89.72	0.7	-150.2	150.2	149.1	1.17	128.294 CC, ES		
400.0	400.0	401.0	401.0	0.7	0.7	160.68	0.7	-150.2	150.5	149.1	1.35	111.803		
500.0	500.0	503.7	503.7	0.8	0.9	160.91	0.7	-149.3	151.2	149.5	1.70	88.959		
600.0	599.9	606.4	606.4	1.0	1.0	161.36	0.7	-146.5	151.8	149.7	2.05	73.914		
700.0	699.8	709.1	709.0	1.2	1.2	162.03	0.7	-141.9	152.3	149.8	2.41	63.231		
800.0	799.5	811.8	811.5	1.4	1.4	162.92	0.7	-135.5	152.6	149.9	2.76	55.243		
900.0	899.2	913.9	913.2	1.6	1.6	164.03	0.7	-127.3	153.0	149.8	3.12	49.067		
1,000.0	998.6	1,013.8	1,012.8	1.9	1.9	165.29	0.7	-118.7	154.5	151.1	3.47	44.523		
1,100.0	1,097.9	1,113.7	1,112.3	2.1	2.1	166.66	0.7	-110.2	157.9	154.0	3.82	41.278		
1,200.0	1,196.9	1,213.5	1,211.7	2.4	2.3	168.11	0.6	-101.7	163.0	158.8	4.18	39.012		
1,300.0	1,295.7	1,313.1	1,311.0	2.7	2.5	169.56	0.6	-93.1	169.9	165.4	4.53	37.499		
1,364.2	1,358.9	1,377.0	1,374.6	2.9	2.6	170.49	0.6	-87.7	175.3	170.6	4.76	36.850		
1,400.0	1,394.2	1,412.7	1,410.2	3.0	2.7	170.99	0.6	-84.6	178.6	173.7	4.88	36.559		
1,500.0	1,492.6	1,512.2	1,509.3	3.4	3.0	172.31	0.6	-76.1	187.7	182.4	5.24	35.835		
1,600.0	1,591.0	1,611.7	1,608.4	3.7	3.2	173.51	0.6	-67.6	196.9	191.3	5.59	35.218		
1,700.0	1,689.5	1,711.2	1,707.6	4.0	3.4	174.60	0.6	-59.1	206.1	200.2	5.94	34.684		
1,800.0	1,787.9	1,810.7	1,806.7	4.4	3.6	175.60	0.5	-50.6	215.5	209.2	6.30	34.217		
1,900.0	1,886.3	1,910.2	1,905.8	4.7	3.8	176.51	0.5	-42.1	224.9	218.2	6.65	33.804		
2,000.0	1,984.8	2,009.6	2,005.0	5.1	4.1	177.35	0.5	-33.6	234.3	227.3	7.01	33.436		
2,100.0	2,083.2	2,109.1	2,104.1	5.4	4.3	178.12	0.5	-25.1	243.8	236.5	7.37	33.105		
2,200.0	2,181.7	2,208.6	2,203.2	5.8	4.5	178.84	0.5	-16.6	253.4	245.6	7.72	32.805		
2,300.0	2,280.1	2,308.1	2,302.3	6.1	4.8	179.50	0.5	-8.1	262.9	254.9	8.08	32.532		
2,400.0	2,378.5	2,407.6	2,401.5	6.5	5.0	-179.88	0.5	0.4	272.6	264.1	8.44	32.281		
2,500.0	2,477.0	2,507.1	2,500.6	6.8	5.2	-179.30	0.4	8.9	282.2	273.4	8.80	32.050		
2,600.0	2,575.4	2,606.6	2,599.7	7.2	5.4	-178.77	0.4	17.4	291.9	282.7	9.17	31.836		
2,700.0	2,673.8	2,706.1	2,698.9	7.5	5.7	-178.26	0.4	25.9	301.5	292.0	9.53	31.637		
2,800.0	2,772.3	2,805.6	2,798.0	7.9	5.9	-177.79	0.4	34.4	311.3	301.4	9.90	31.452		
2,900.0	2,870.7	2,905.1	2,897.1	8.2	6.1	-177.35	0.4	43.0	321.0	310.7	10.26	31.278		
3,000.0	2,969.2	3,004.6	2,996.3	8.6	6.3	-176.93	0.4	51.5	330.7	320.1	10.63	31.116		
3,100.0	3,067.6	3,104.1	3,095.4	8.9	6.6	-176.54	0.4	60.0	340.5	329.5	11.00	30.963		
3,200.0	3,166.0	3,203.6	3,194.5	9.3	6.8	-176.17	0.3	68.5	350.3	338.9	11.37	30.819		
3,300.0	3,264.5	3,303.1	3,293.7	9.6	7.0	-175.82	0.3	77.0	360.1	348.3	11.73	30.682		
3,400.0	3,362.9	3,402.6	3,392.8	10.0	7.3	-175.48	0.3	85.5	369.9	357.8	12.11	30.553		
3,500.0	3,461.3	3,502.1	3,491.9	10.3	7.5	-175.17	0.3	94.0	379.7	367.2	12.48	30.431		
3,600.0	3,559.8	3,601.6	3,591.1	10.7	7.7	-174.87	0.3	102.5	389.5	376.7	12.85	30.315		
3,700.0	3,658.2	3,701.1	3,690.2	11.1	7.9	-174.58	0.3	111.0	399.3	386.1	13.22	30.205		
3,800.0	3,756.7	3,800.6	3,789.3	11.4	8.2	-174.31	0.2	119.5	409.2	395.6	13.59	30.100		
3,900.0	3,855.1	3,900.1	3,888.5	11.8	8.4	-174.05	0.2	128.0	419.0	405.1	13.97	29.999		
4,000.0	3,953.5	3,999.6	3,987.6	12.1	8.6	-173.81	0.2	136.5	428.9	414.6	14.34	29.903		
4,100.0	4,052.0	4,099.1	4,086.7	12.5	8.8	-173.57	0.2	145.0	438.8	424.1	14.72	29.812		
4,200.0	4,150.4	4,198.6	4,185.9	12.8	9.1	-173.35	0.2	153.5	448.6	433.6	15.09	29.724		
4,300.0	4,248.8	4,298.1	4,285.0	13.2	9.3	-173.13	0.2	162.0	458.5	443.1	15.47	29.640		
4,400.0	4,347.3	4,397.6	4,384.1	13.5	9.5	-172.93	0.2	170.5	468.4	452.6	15.85	29.560		
4,500.0	4,445.7	4,497.0	4,483.2	13.9	9.8	-172.73	0.1	179.0	478.3	462.1	16.22	29.482		
4,600.0	4,544.2	4,596.5	4,582.4	14.3	10.0	-172.54	0.1	187.5	488.2	471.6	16.60	29.408		
4,700.0	4,642.6	4,696.0	4,681.5	14.6	10.2	-172.36	0.1	196.0	498.1	481.1	16.98	29.337		
4,800.0	4,741.0	4,795.5	4,780.6	15.0	10.4	-172.18	0.1	204.5	508.0	490.7	17.36	29.268		
4,900.0	4,839.5	4,895.0	4,879.8	15.3	10.7	-172.01	0.1	213.1	517.9	500.2	17.74	29.202		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,994.5	4,978.9	15.7	10.9	-171.85	0.1	221.6	527.9	509.8	18.12	29.138		
5,100.0	5,036.3	5,094.0	5,078.0	16.0	11.1	-171.70	0.0	230.1	537.8	519.3	18.50	29.077		
5,200.0	5,134.8	5,193.5	5,177.2	16.4	11.4	-171.54	0.0	238.6	547.7	528.8	18.88	29.017		
5,300.0	5,233.2	5,293.0	5,276.3	16.7	11.6	-171.40	0.0	247.1	557.7	538.4	19.26	28.960		
5,400.0	5,331.7	5,392.5	5,375.4	17.1	11.8	-171.26	0.0	255.6	567.6	547.9	19.64	28.905		
5,500.0	5,430.1	5,492.0	5,474.6	17.5	12.0	-171.12	0.0	264.1	577.5	557.5	20.02	28.851		
5,600.0	5,528.5	5,591.5	5,573.7	17.8	12.3	-170.99	0.0	272.6	587.5	567.1	20.40	28.800		
5,700.0	5,627.0	5,691.0	5,672.8	18.2	12.5	-170.87	0.0	281.1	597.4	576.6	20.78	28.750		
5,800.0	5,725.4	5,790.5	5,772.0	18.5	12.7	-170.75	-0.1	289.6	607.4	586.2	21.16	28.701		
5,900.0	5,823.8	5,890.0	5,871.1	18.9	13.0	-170.63	-0.1	298.1	617.3	595.8	21.54	28.654		
6,000.0	5,922.3	5,989.5	5,970.2	19.2	13.2	-170.51	-0.1	306.6	627.3	605.3	21.93	28.609		
6,100.0	6,020.7	6,089.0	6,069.4	19.6	13.4	-170.40	-0.1	315.1	637.2	614.9	22.31	28.564		
6,200.0	6,119.2	6,188.5	6,168.5	20.0	13.6	-170.30	-0.1	323.6	647.2	624.5	22.69	28.522		
6,300.0	6,217.6	6,288.0	6,267.6	20.3	13.9	-170.19	-0.1	332.1	657.1	634.0	23.07	28.480		
6,400.0	6,316.0	6,387.5	6,366.7	20.7	14.1	-170.09	-0.1	340.6	667.1	643.6	23.46	28.440		
6,500.0	6,414.5	6,487.0	6,465.9	21.0	14.3	-169.99	-0.2	349.1	677.0	653.2	23.84	28.400		
6,600.0	6,512.9	6,586.5	6,565.0	21.4	14.6	-169.90	-0.2	357.6	687.0	662.8	24.22	28.362		
6,700.0	6,611.3	6,686.0	6,664.1	21.7	14.8	-169.80	-0.2	366.1	697.0	672.4	24.61	28.325		
6,800.0	6,709.8	6,831.0	6,808.4	22.1	15.1	-170.10	-6.3	378.5	705.4	680.4	24.98	28.240		
6,843.8	6,752.9	6,914.6	6,890.2	22.3	15.3	-171.14	-22.0	385.5	705.7	680.8	24.94	28.302		
6,850.0	6,759.0	6,926.3	6,901.4	22.3	15.3	-168.68	-25.0	386.5	705.6	680.6	24.92	28.316		
6,900.0	6,808.3	7,015.1	6,985.2	22.4	15.6	-147.97	-53.4	393.7	701.9	677.2	24.72	28.398		
6,950.0	6,857.5	7,093.2	7,055.5	22.6	15.8	-130.32	-86.8	399.7	694.9	670.4	24.53	28.333		
7,000.0	6,906.4	7,158.5	7,111.2	22.7	16.0	-119.09	-120.5	404.5	685.8	661.3	24.47	28.021		
7,050.0	6,954.8	7,211.1	7,163.7	22.8	16.2	-112.99	-151.2	408.2	676.0	651.4	24.61	27.466		
7,100.0	7,002.3	7,252.3	7,185.3	22.9	16.4	-109.84	-177.4	410.9	666.9	641.9	24.92	26.755		
7,150.0	7,048.9	7,283.5	7,208.3	23.0	16.5	-108.13	-198.5	412.8	659.3	633.9	25.36	25.996		
7,200.0	7,094.2	7,306.4	7,224.5	23.1	16.7	-106.99	-214.6	414.2	654.2	628.3	25.85	25.304		
7,250.0	7,138.1	7,322.5	7,235.6	23.1	16.7	-105.97	-226.2	415.2	652.0	625.7	26.35	24.747		
7,256.9	7,144.0	7,324.2	7,236.8	23.1	16.8	-105.82	-227.4	415.3	652.0	625.6	26.41	24.683		
7,300.0	7,180.2	7,332.9	7,242.7	23.2	16.8	-104.81	-233.8	415.8	653.3	626.5	26.80	24.375		
7,350.0	7,220.5	7,338.8	7,246.6	23.3	16.8	-103.40	-238.2	416.1	658.1	630.9	27.19	24.207 SF		
7,400.0	7,258.7	7,340.9	7,248.0	23.3	16.8	-101.67	-239.7	416.2	666.5	639.0	27.49	24.243		
7,450.0	7,294.7	7,339.8	7,247.3	23.4	16.8	-99.61	-238.9	416.2	678.3	650.6	27.72	24.471		
7,500.0	7,328.2	7,336.1	7,244.8	23.5	16.8	-97.22	-236.2	416.0	693.3	665.4	27.87	24.874		
7,550.0	7,359.1	7,330.2	7,240.8	23.5	16.8	-94.53	-231.8	415.6	711.2	683.2	27.97	25.428		
7,600.0	7,387.2	7,322.4	7,235.6	23.6	16.7	-91.56	-226.1	415.2	731.5	703.5	28.02	26.109		
7,650.0	7,412.5	7,313.0	7,229.1	23.8	16.7	-88.36	-219.3	414.6	754.0	725.9	28.04	26.891		
7,700.0	7,434.7	7,300.0	7,220.1	23.9	16.6	-84.82	-210.0	413.8	778.1	750.2	27.98	27.807		
7,750.0	7,453.9	7,290.4	7,213.3	24.1	16.6	-81.53	-203.3	413.3	803.7	775.6	28.04	28.658		
7,800.0	7,469.8	7,277.5	7,204.0	24.2	16.5	-78.02	-194.4	412.5	830.2	802.1	28.05	29.598		
7,850.0	7,482.4	7,263.8	7,193.9	24.4	16.5	-74.54	-185.1	411.6	857.4	829.3	28.06	30.553		
7,900.0	7,491.6	7,250.0	7,183.6	24.7	16.4	-71.19	-175.9	410.7	885.0	856.9	28.11	31.486		
7,950.0	7,497.5	7,234.0	7,171.5	24.9	16.3	-67.89	-165.6	409.7	912.7	884.6	28.14	32.437		
8,000.0	7,499.9	7,218.3	7,159.3	25.2	16.3	-64.81	-155.6	408.6	940.4	912.1	28.20	33.342		
8,010.3	7,500.0	7,214.9	7,156.7	25.2	16.2	-64.21	-153.6	408.4	946.0	917.8	28.22	33.525		
8,100.0	7,500.0	7,187.4	7,134.8	25.8	16.1	-62.86	-137.0	406.5	997.2	968.9	28.38	35.142		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4F-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	1.0	1.0	0.0	0.0	-89.70	0.7	-140.2	140.2					
100.0	100.0	101.0	101.0	0.1	0.2	-89.70	0.7	-140.2	140.2	139.9	0.30	469.675		
116.3	116.3	117.3	117.3	0.2	0.2	-89.70	0.7	-140.2	140.2	139.8	0.36	394.355	CC	
200.0	200.0	201.0	201.0	0.3	0.3	-89.70	0.7	-140.2	140.2	139.5	0.65	216.478		
300.0	300.0	301.0	301.0	0.5	0.5	-89.34	1.6	-140.2	140.2	139.2	1.00	140.530		
350.0	350.0	350.9	350.9	0.6	0.6	-88.89	2.7	-140.2	140.2	139.0	1.17	119.357	ES	
400.0	400.0	400.9	400.8	0.7	0.7	162.14	4.2	-140.2	140.4	139.1	1.35	103.898		
500.0	500.0	500.6	500.5	0.8	0.9	164.11	8.6	-140.2	142.3	140.6	1.71	83.049		
600.0	599.9	600.1	599.8	1.0	1.1	166.85	14.7	-140.2	146.3	144.2	2.09	70.095		
700.0	699.8	702.1	701.5	1.2	1.3	169.82	21.3	-139.4	151.5	149.1	2.46	61.513		
800.0	799.5	804.2	803.5	1.4	1.5	172.43	26.9	-137.1	157.3	154.4	2.84	55.411		
900.0	899.2	906.5	905.6	1.6	1.7	174.70	31.5	-133.3	163.4	160.1	3.21	50.881		
1,000.0	998.6	1,009.0	1,007.9	1.9	1.9	176.66	35.2	-128.0	169.7	166.1	3.58	47.396		
1,100.0	1,097.9	1,111.6	1,110.2	2.1	2.1	178.34	37.8	-121.1	176.2	172.3	3.95	44.632		
1,200.0	1,196.9	1,214.4	1,212.7	2.4	2.3	179.76	39.4	-112.7	182.9	178.6	4.32	42.383		
1,300.0	1,295.7	1,317.4	1,315.1	2.7	2.5	-179.06	39.9	-102.8	189.7	185.0	4.68	40.515		
1,364.2	1,358.9	1,383.5	1,380.9	2.9	2.6	-178.41	39.8	-95.5	194.1	189.2	4.92	39.472		
1,400.0	1,394.2	1,420.2	1,417.4	3.0	2.7	-178.09	39.5	-91.3	196.4	191.4	5.05	38.910		
1,500.0	1,492.6	1,520.0	1,516.4	3.4	2.9	-177.26	38.6	-79.5	202.8	197.4	5.41	37.455		
1,600.0	1,591.0	1,619.8	1,615.5	3.7	3.2	-176.49	37.7	-67.7	209.2	203.4	5.78	36.176		
1,700.0	1,689.5	1,719.5	1,714.5	4.0	3.4	-175.76	36.8	-55.9	215.6	209.5	6.15	35.042		
1,800.0	1,787.9	1,819.3	1,813.6	4.4	3.7	-175.07	36.0	-44.1	222.1	215.6	6.53	34.030		
1,900.0	1,886.3	1,919.0	1,912.7	4.7	3.9	-174.42	35.1	-32.4	228.6	221.7	6.90	33.119		
2,000.0	1,984.8	2,018.8	2,011.7	5.1	4.2	-173.81	34.2	-20.6	235.2	227.9	7.28	32.296		
2,100.0	2,083.2	2,118.5	2,110.8	5.4	4.4	-173.23	33.3	-8.8	241.7	234.1	7.66	31.547		
2,200.0	2,181.7	2,218.3	2,209.8	5.8	4.7	-172.68	32.4	3.0	248.3	240.2	8.04	30.864		
2,300.0	2,280.1	2,318.0	2,308.9	6.1	4.9	-172.16	31.6	14.8	254.9	246.5	8.43	30.236		
2,400.0	2,378.5	2,417.8	2,407.9	6.5	5.2	-171.66	30.7	26.6	261.5	252.7	8.82	29.659		
2,500.0	2,477.0	2,517.6	2,507.0	6.8	5.5	-171.19	29.8	38.3	268.2	259.0	9.21	29.125		
2,600.0	2,575.4	2,617.3	2,606.0	7.2	5.7	-170.75	28.9	50.1	274.8	265.2	9.60	28.630		
2,700.0	2,673.8	2,717.1	2,705.1	7.5	6.0	-170.32	28.1	61.9	281.5	271.5	9.99	28.170		
2,800.0	2,772.3	2,816.8	2,804.1	7.9	6.2	-169.92	27.2	73.7	288.2	277.8	10.39	27.741		
2,900.0	2,870.7	2,916.6	2,903.2	8.2	6.5	-169.53	26.3	85.5	294.9	284.1	10.79	27.340		
3,000.0	2,969.2	3,016.3	3,002.2	8.6	6.8	-169.16	25.4	97.3	301.6	290.4	11.19	26.964		
3,100.0	3,067.6	3,116.1	3,101.3	8.9	7.0	-168.80	24.5	109.0	308.3	296.7	11.59	26.612		
3,200.0	3,166.0	3,215.8	3,200.3	9.3	7.3	-168.46	23.7	120.8	315.1	303.1	11.99	26.280		
3,300.0	3,264.5	3,315.6	3,299.4	9.6	7.6	-168.14	22.8	132.6	321.8	309.4	12.39	25.967		
3,400.0	3,362.9	3,415.4	3,398.5	10.0	7.8	-167.83	21.9	144.4	328.6	315.8	12.80	25.672		
3,500.0	3,461.3	3,515.1	3,497.5	10.3	8.1	-167.53	21.0	156.2	335.3	322.1	13.21	25.394		
3,600.0	3,559.8	3,614.9	3,596.6	10.7	8.4	-167.24	20.2	168.0	342.1	328.5	13.61	25.129		
3,700.0	3,658.2	3,714.6	3,695.6	11.1	8.6	-166.96	19.3	179.7	348.9	334.9	14.02	24.879		
3,800.0	3,756.7	3,814.4	3,794.7	11.4	8.9	-166.70	18.4	191.5	355.7	341.3	14.43	24.641		
3,900.0	3,855.1	3,914.1	3,893.7	11.8	9.2	-166.44	17.5	203.3	362.5	347.6	14.85	24.415		
4,000.0	3,953.5	4,013.9	3,992.8	12.1	9.4	-166.20	16.6	215.1	369.3	354.0	15.26	24.200		
4,100.0	4,052.0	4,113.6	4,091.8	12.5	9.7	-165.96	15.8	226.9	376.1	360.4	15.67	23.995		
4,200.0	4,150.4	4,213.4	4,190.9	12.8	10.0	-165.73	14.9	238.7	382.9	366.8	16.09	23.799		
4,300.0	4,248.8	4,313.2	4,289.9	13.2	10.2	-165.51	14.0	250.4	389.8	373.2	16.51	23.612		
4,400.0	4,347.3	4,412.9	4,389.0	13.5	10.5	-165.30	13.1	262.2	396.6	379.7	16.92	23.433		
4,500.0	4,445.7	4,512.7	4,488.0	13.9	10.8	-165.09	12.3	274.0	403.4	386.1	17.34	23.262		
4,600.0	4,544.2	4,612.4	4,587.1	14.3	11.0	-164.89	11.4	285.8	410.3	392.5	17.76	23.098		
4,700.0	4,642.6	4,712.2	4,686.1	14.6	11.3	-164.70	10.5	297.6	417.1	398.9	18.18	22.941		
4,800.0	4,741.0	4,811.9	4,785.2	15.0	11.6	-164.51	9.6	309.4	424.0	405.4	18.60	22.791		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4F-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: O-Geolink MWD														
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	
4,900.0	4,839.5	4,911.7	4,884.3	15.3	11.8	-164.33	8.7	321.1	430.8	411.8	19.02	22.646		
5,000.0	4,937.9	5,011.5	4,983.3	15.7	12.1	-164.16	7.9	332.9	437.7	418.2	19.45	22.507		
5,100.0	5,036.3	5,111.2	5,082.4	16.0	12.4	-163.99	7.0	344.7	444.5	424.7	19.87	22.373		
5,200.0	5,134.8	5,211.0	5,181.4	16.4	12.7	-163.82	6.1	356.5	451.4	431.1	20.29	22.244		
5,300.0	5,233.2	5,310.7	5,280.5	16.7	12.9	-163.67	5.2	368.3	458.3	437.6	20.72	22.120		
5,400.0	5,331.7	5,410.5	5,379.5	17.1	13.2	-163.51	4.4	380.1	465.1	444.0	21.14	22.001		
5,500.0	5,430.1	5,510.2	5,478.6	17.5	13.5	-163.36	3.5	391.8	472.0	450.5	21.57	21.885		
5,600.0	5,528.5	5,610.0	5,577.6	17.8	13.7	-163.21	2.6	403.6	478.9	456.9	21.99	21.774		
5,700.0	5,627.0	5,709.7	5,676.7	18.2	14.0	-163.07	1.7	415.4	485.8	463.4	22.42	21.667		
5,800.0	5,725.4	5,809.5	5,775.7	18.5	14.3	-162.94	0.8	427.2	492.7	469.8	22.85	21.563		
5,900.0	5,823.8	5,909.3	5,874.8	18.9	14.5	-162.80	0.0	439.0	499.6	476.3	23.28	21.463		
6,000.0	5,922.3	6,009.0	5,973.8	19.2	14.8	-162.67	-0.9	450.8	506.5	482.7	23.70	21.366		
6,100.0	6,020.7	6,108.8	6,072.9	19.6	15.1	-162.54	-1.8	462.5	513.3	489.2	24.13	21.272		
6,200.0	6,119.2	6,208.5	6,172.0	20.0	15.3	-162.42	-2.7	474.3	520.2	495.7	24.56	21.181		
6,300.0	6,217.6	6,308.3	6,271.0	20.3	15.6	-162.30	-3.5	486.1	527.1	502.2	24.99	21.093		
6,400.0	6,316.0	6,408.0	6,370.1	20.7	15.9	-162.18	-4.4	497.9	534.0	508.6	25.42	21.007		
6,500.0	6,414.5	6,507.8	6,469.1	21.0	16.2	-162.07	-5.3	509.7	540.9	515.1	25.85	20.925		
6,600.0	6,512.9	6,607.5	6,568.2	21.4	16.4	-161.96	-6.2	521.5	547.9	521.6	26.28	20.844		
6,700.0	6,611.3	6,707.3	6,667.2	21.7	16.7	-161.85	-7.1	533.2	554.8	528.0	26.71	20.766		
6,800.0	6,709.8	6,807.1	6,766.3	22.1	17.0	-161.74	-7.9	545.0	561.7	534.5	27.15	20.691		
6,843.8	6,752.9	6,850.7	6,809.6	22.3	17.1	-161.70	-8.3	550.2	564.7	537.4	27.33	20.658		
6,850.0	6,759.0	6,856.9	6,815.8	22.3	17.1	-158.99	-8.4	550.9	565.1	537.7	27.36	20.653		
6,900.0	6,808.3	6,906.9	6,865.4	22.4	17.2	-135.79	-8.8	556.8	567.2	539.7	27.56	20.581		
6,950.0	6,857.5	6,956.7	6,914.9	22.6	17.4	-115.01	-9.3	562.7	567.3	539.6	27.72	20.466		
7,000.0	6,906.4	7,006.2	6,964.0	22.7	17.5	-100.57	-9.7	568.5	565.3	537.5	27.83	20.312		
7,050.0	6,954.8	7,058.6	7,016.1	22.8	17.7	-91.76	-10.2	574.7	561.3	533.4	27.90	20.121		
7,100.0	7,002.3	7,145.0	7,101.5	22.9	17.9	-88.27	-17.1	585.0	553.7	525.9	27.78	19.934		
7,150.0	7,048.9	7,220.2	7,174.8	23.0	18.1	-88.11	-31.4	594.0	542.0	514.6	27.34	19.827		
7,200.0	7,094.2	7,282.9	7,234.3	23.1	18.3	-89.95	-49.3	601.3	527.8	501.1	26.77	19.718		
7,250.0	7,138.1	7,333.2	7,280.9	23.1	18.4	-92.73	-67.3	607.2	513.0	486.7	26.25	19.544		
7,300.0	7,180.2	7,372.4	7,316.2	23.2	18.6	-95.65	-83.7	611.7	498.9	473.0	25.88	19.278		
7,350.0	7,220.5	7,402.0	7,342.4	23.3	18.7	-98.19	-97.3	615.0	487.1	461.4	25.73	18.933		
7,400.0	7,258.7	7,423.8	7,361.1	23.3	18.8	-100.07	-108.0	617.4	478.6	452.8	25.81	18.546		
7,450.0	7,294.7	7,438.9	7,374.0	23.4	18.8	-101.17	-115.8	619.4	474.4	448.4	26.10	18.181		
7,469.0	7,307.7	7,443.2	7,377.6	23.4	18.8	-101.38	-118.1	619.6	474.1	447.8	26.25	18.058		
7,500.0	7,328.2	7,448.6	7,382.2	23.5	18.8	-101.47	-121.0	620.2	475.1	448.5	26.54	17.897		
7,550.0	7,359.1	7,453.9	7,386.6	23.5	18.9	-100.98	-123.8	620.7	480.7	453.6	27.10	17.739		
7,600.0	7,387.2	7,455.6	7,388.0	23.6	18.9	-99.76	-124.7	620.9	491.3	463.6	27.70	17.738 SF		
7,650.0	7,412.5	7,450.0	7,383.3	23.8	18.8	-97.35	-121.7	620.3	506.5	478.3	28.20	17.965		
7,700.0	7,434.7	7,450.0	7,383.3	23.9	18.8	-95.31	-121.7	620.3	525.9	497.0	28.86	18.223		
7,750.0	7,453.9	7,450.0	7,383.3	24.1	18.8	-92.95	-121.7	620.3	548.8	519.3	29.55	18.574		
7,800.0	7,469.8	7,436.1	7,371.6	24.2	18.8	-88.72	-114.3	618.8	574.6	544.8	29.87	19.240		
7,850.0	7,482.4	7,426.6	7,363.5	24.4	18.8	-84.84	-109.4	617.7	602.8	572.5	30.30	19.893		
7,900.0	7,491.6	7,415.8	7,354.3	24.7	18.7	-80.71	-104.0	616.6	632.7	602.0	30.70	20.610		
7,950.0	7,497.5	7,400.0	7,340.6	24.9	18.7	-76.12	-96.4	614.8	663.9	632.9	30.96	21.440		
8,000.0	7,499.9	7,400.0	7,340.6	25.2	18.7	-73.06	-96.4	614.8	695.9	664.3	31.63	22.000		
8,010.3	7,500.0	7,388.1	7,330.1	25.2	18.6	-71.40	-90.8	613.5	702.5	671.0	31.47	22.321		
8,100.0	7,500.0	7,365.2	7,309.9	25.8	18.5	-69.47	-80.6	610.9	762.9	730.9	32.03	23.817		
8,200.0	7,500.0	7,350.0	7,296.2	26.5	18.5	-68.20	-74.1	609.1	835.5	802.7	32.75	25.514		
8,300.0	7,500.0	7,323.3	7,271.9	27.3	18.4	-66.03	-63.6	606.1	912.1	879.0	33.10	27.558		
8,400.0	7,500.0	7,300.0	7,250.3	28.2	18.3	-64.18	-55.1	603.4	992.4	958.9	33.44	29.680		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - 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	-89.82	0.4	-130.1	130.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.82	0.4	-130.1	130.1	129.8	0.30	435.922		
200.0	200.0	201.0	201.0	0.3	0.3	-89.82	0.4	-130.1	130.1	129.5	0.65	200.924		
300.0	300.0	301.0	301.0	0.5	0.5	-89.82	0.4	-130.1	130.1	129.1	1.00	130.548		
350.0	350.0	351.0	351.0	0.6	0.6	-89.82	0.4	-130.1	130.1	128.9	1.17	111.092 CC		
400.0	400.0	401.0	401.0	0.7	0.7	160.59	0.4	-130.1	130.3	129.0	1.35	96.836		
500.0	500.0	501.0	501.0	0.8	0.8	160.84	0.4	-130.1	132.0	130.3	1.69	77.854		
600.0	599.9	603.3	603.3	1.0	1.0	161.34	0.4	-129.2	134.3	132.3	2.05	65.580		
700.0	699.8	705.7	705.7	1.2	1.2	162.09	0.5	-126.4	136.6	134.2	2.40	56.861		
800.0	799.5	808.1	808.0	1.4	1.4	163.08	0.5	-121.8	138.8	136.0	2.76	50.340		
900.0	899.2	910.6	910.2	1.6	1.6	164.30	0.6	-115.4	140.9	137.8	3.11	45.279		
1,000.0	998.6	1,013.0	1,012.3	1.9	1.8	165.73	0.8	-107.2	143.0	139.6	3.47	41.246		
1,100.0	1,097.9	1,115.5	1,114.3	2.1	2.0	167.38	0.9	-97.1	145.1	141.3	3.82	37.966		
1,200.0	1,196.9	1,217.9	1,216.0	2.4	2.3	169.22	1.1	-85.2	147.3	143.1	4.18	35.257		
1,300.0	1,295.7	1,320.4	1,317.6	2.7	2.6	171.26	1.4	-71.5	149.6	145.1	4.53	32.990		
1,364.2	1,358.9	1,386.1	1,382.6	2.9	2.7	172.66	1.5	-61.7	151.1	146.4	4.76	31.722		
1,400.0	1,394.2	1,422.8	1,418.8	3.0	2.8	173.47	1.6	-56.0	151.9	147.0	4.89	31.046		
1,500.0	1,492.6	1,523.5	1,518.1	3.4	3.2	175.73	1.9	-39.3	153.5	148.3	5.26	29.184		
1,600.0	1,591.0	1,623.3	1,616.5	3.7	3.5	177.93	2.1	-22.7	155.2	149.6	5.64	27.546		
1,700.0	1,689.5	1,723.1	1,715.0	4.0	3.8	-179.93	2.4	-6.2	157.2	151.2	6.02	26.100		
1,800.0	1,787.9	1,822.9	1,813.4	4.4	4.1	-177.83	2.7	10.4	159.3	152.9	6.42	24.811		
1,900.0	1,886.3	1,922.7	1,911.8	4.7	4.4	-175.80	2.9	27.0	161.7	154.9	6.84	23.650		
2,000.0	1,984.8	2,022.5	2,010.2	5.1	4.7	-173.83	3.2	43.6	164.3	157.0	7.27	22.598		
2,100.0	2,083.2	2,122.3	2,108.6	5.4	5.1	-171.91	3.5	60.2	167.0	159.3	7.72	21.638		
2,200.0	2,181.7	2,222.1	2,207.1	5.8	5.4	-170.07	3.7	76.8	170.0	161.8	8.19	20.761		
2,300.0	2,280.1	2,322.0	2,305.5	6.1	5.7	-168.28	4.0	93.4	173.1	164.4	8.67	19.956		
2,400.0	2,378.5	2,421.8	2,403.9	6.5	6.1	-166.57	4.3	109.9	176.3	167.2	9.18	19.217		
2,500.0	2,477.0	2,521.6	2,502.3	6.8	6.4	-164.91	4.5	126.5	179.8	170.1	9.70	18.538		
2,600.0	2,575.4	2,621.4	2,600.7	7.2	6.7	-163.32	4.8	143.1	183.3	173.1	10.24	17.912		
2,700.0	2,673.8	2,721.2	2,699.2	7.5	7.1	-161.79	5.1	159.7	187.0	176.3	10.79	17.337		
2,800.0	2,772.3	2,821.0	2,797.6	7.9	7.4	-160.32	5.3	176.3	190.9	179.5	11.36	16.808		
2,900.0	2,870.7	2,920.8	2,896.0	8.2	7.7	-158.91	5.6	192.9	194.8	182.9	11.94	16.320		
3,000.0	2,969.2	3,020.6	2,994.4	8.6	8.1	-157.55	5.9	209.5	198.9	186.4	12.53	15.871		
3,100.0	3,067.6	3,120.4	3,092.8	8.9	8.4	-156.26	6.1	226.0	203.1	189.9	13.14	15.457		
3,200.0	3,166.0	3,220.2	3,191.3	9.3	8.7	-155.01	6.4	242.6	207.3	193.6	13.75	15.075		
3,300.0	3,264.5	3,320.0	3,289.7	9.6	9.1	-153.81	6.7	259.2	211.7	197.3	14.38	14.723		
3,400.0	3,362.9	3,419.9	3,388.1	10.0	9.4	-152.67	6.9	275.8	216.2	201.1	15.01	14.398		
3,500.0	3,461.3	3,519.7	3,486.5	10.3	9.8	-151.57	7.2	292.4	220.7	205.0	15.65	14.097		
3,600.0	3,559.8	3,619.5	3,585.0	10.7	10.1	-150.51	7.5	309.0	225.3	209.0	16.30	13.820		
3,700.0	3,658.2	3,719.3	3,683.4	11.1	10.4	-149.50	7.7	325.6	230.0	213.0	16.96	13.562		
3,800.0	3,756.7	3,819.1	3,781.8	11.4	10.8	-148.52	8.0	342.2	234.8	217.1	17.62	13.324		
3,900.0	3,855.1	3,918.9	3,880.2	11.8	11.1	-147.59	8.3	358.7	239.6	221.3	18.28	13.103		
4,000.0	3,953.5	4,018.7	3,978.6	12.1	11.5	-146.69	8.5	375.3	244.5	225.5	18.95	12.898		
4,100.0	4,052.0	4,118.5	4,077.1	12.5	11.8	-145.83	8.8	391.9	249.4	229.8	19.63	12.707		
4,200.0	4,150.4	4,218.3	4,175.5	12.8	12.1	-145.00	9.1	408.5	254.4	234.1	20.30	12.529		
4,300.0	4,248.8	4,318.1	4,273.9	13.2	12.5	-144.21	9.3	425.1	259.4	238.5	20.98	12.364		
4,400.0	4,347.3	4,417.9	4,372.3	13.5	12.8	-143.44	9.6	441.7	264.5	242.9	21.67	12.209		
4,500.0	4,445.7	4,517.8	4,470.7	13.9	13.1	-142.71	9.9	458.3	269.7	247.3	22.35	12.065		
4,600.0	4,544.2	4,617.6	4,569.2	14.3	13.5	-142.00	10.2	474.8	274.9	251.8	23.04	11.930		
4,700.0	4,642.6	4,717.4	4,667.6	14.6	13.8	-141.32	10.4	491.4	280.1	256.4	23.73	11.804		
4,800.0	4,741.0	4,817.2	4,766.0	15.0	14.2	-140.66	10.7	508.0	285.4	260.9	24.42	11.685		
4,900.0	4,839.5	4,917.0	4,864.4	15.3	14.5	-140.03	11.0	524.6	290.6	265.5	25.11	11.574		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	5,016.8	4,962.8	15.7	14.8	-139.41	11.2	541.2	296.0	270.2	25.80	11.470		
5,100.0	5,036.3	5,116.6	5,061.3	16.0	15.2	-138.83	11.5	557.8	301.3	274.8	26.50	11.372		
5,200.0	5,134.8	5,216.4	5,159.7	16.4	15.5	-138.26	11.8	574.4	306.7	279.5	27.19	11.280		
5,300.0	5,233.2	5,316.2	5,258.1	16.7	15.9	-137.71	12.0	590.9	312.2	284.3	27.89	11.193		
5,400.0	5,331.7	5,416.0	5,356.5	17.1	16.2	-137.18	12.3	607.5	317.6	289.0	28.59	11.111		
5,500.0	5,430.1	5,515.8	5,454.9	17.5	16.5	-136.67	12.6	624.1	323.1	293.8	29.28	11.033		
5,600.0	5,528.5	5,615.6	5,553.4	17.8	16.9	-136.17	12.8	640.7	328.6	298.6	29.98	10.960		
5,700.0	5,627.0	5,715.5	5,651.8	18.2	17.2	-135.69	13.1	657.3	334.1	303.4	30.68	10.891		
5,800.0	5,725.4	5,815.3	5,750.2	18.5	17.6	-135.23	13.4	673.9	339.7	308.3	31.38	10.826		
5,900.0	5,823.8	5,915.1	5,848.6	18.9	17.9	-134.78	13.6	690.5	345.2	313.2	32.08	10.764		
6,000.0	5,922.3	6,014.9	5,947.1	19.2	18.2	-134.35	13.9	707.0	350.8	318.1	32.77	10.705		
6,100.0	6,020.7	6,114.7	6,045.5	19.6	18.6	-133.93	14.2	723.6	356.4	323.0	33.47	10.649		
6,200.0	6,119.2	6,214.5	6,143.9	20.0	18.9	-133.52	14.4	740.2	362.1	327.9	34.17	10.596		
6,300.0	6,217.6	6,314.3	6,242.3	20.3	19.3	-133.13	14.7	756.8	367.7	332.9	34.87	10.545		
6,400.0	6,316.0	6,414.1	6,340.7	20.7	19.6	-132.74	15.0	773.4	373.4	337.8	35.57	10.497		
6,500.0	6,414.5	6,513.9	6,439.2	21.0	19.9	-132.37	15.2	790.0	379.1	342.8	36.27	10.452		
6,600.0	6,512.9	6,613.7	6,537.6	21.4	20.3	-132.01	15.5	806.6	384.8	347.8	36.97	10.408		
6,700.0	6,611.3	6,713.5	6,636.0	21.7	20.6	-131.66	15.8	823.1	390.5	352.8	37.67	10.367		
6,800.0	6,709.8	6,827.8	6,748.7	22.1	21.0	-131.30	15.5	842.1	395.9	357.5	38.41	10.309		
6,843.8	6,752.9	6,917.4	6,836.5	22.3	21.3	-131.50	6.6	856.9	394.3	355.9	38.42	10.264		
6,850.0	6,759.0	6,930.0	6,848.8	22.3	21.4	-128.93	4.5	859.0	393.6	355.3	38.38	10.258		
6,900.0	6,808.3	7,027.6	6,942.0	22.4	21.7	-107.42	-19.4	874.7	383.0	345.5	37.52	10.207		
6,950.0	6,857.5	7,114.8	7,021.9	22.6	22.0	-89.59	-51.4	888.2	363.8	327.8	36.05	10.092		
7,000.0	6,906.4	7,188.4	7,085.9	22.7	22.3	-79.62	-86.0	899.0	337.8	303.5	34.24	9.864		
7,050.0	6,954.8	7,247.8	7,134.9	22.8	22.5	-76.98	-118.6	907.2	306.7	274.4	32.32	9.490		
7,100.0	7,002.3	7,294.3	7,171.2	22.9	22.7	-79.86	-146.9	913.3	272.6	242.2	30.39	8.970		
7,150.0	7,048.9	7,329.5	7,197.5	23.0	22.8	-86.24	-169.9	917.8	237.6	209.1	28.51	8.334		
7,200.0	7,094.2	7,355.4	7,216.1	23.1	23.0	-93.78	-187.7	920.9	204.0	177.2	26.72	7.633		
7,250.0	7,138.1	7,373.7	7,228.8	23.1	23.0	-100.30	-200.6	923.0	175.0	149.7	25.35	6.904		
7,300.0	7,180.2	7,385.8	7,237.1	23.2	23.1	-104.55	-209.4	924.4	155.2	129.9	25.25	6.145		
7,343.0	7,215.0	7,392.1	7,241.3	23.2	23.1	-106.09	-214.0	925.2	149.2	122.4	26.79	5.570		
7,350.0	7,220.5	7,392.8	7,241.8	23.3	23.1	-106.15	-214.5	925.2	149.4	122.2	27.15	5.502 ES		
7,400.0	7,258.7	7,395.7	7,243.7	23.3	23.1	-105.18	-216.6	925.6	159.7	129.8	29.91	5.339 SF		
7,450.0	7,294.7	7,395.2	7,243.4	23.4	23.1	-101.81	-216.3	925.5	183.5	151.6	31.97	5.741		
7,500.0	7,328.2	7,391.9	7,241.2	23.5	23.1	-96.24	-213.9	925.1	216.4	183.3	33.12	6.534		
7,550.0	7,359.1	7,386.3	7,237.4	23.5	23.1	-88.82	-209.7	924.5	254.6	220.8	33.74	7.545		
7,600.0	7,387.2	7,378.7	7,232.3	23.6	23.1	-80.15	-204.2	923.6	295.7	261.5	34.12	8.665		
7,650.0	7,412.5	7,369.4	7,225.9	23.8	23.0	-71.05	-197.6	922.6	338.3	303.8	34.41	9.829		
7,700.0	7,434.7	7,358.7	7,218.4	23.9	23.0	-62.33	-190.1	921.3	381.5	346.8	34.69	10.997		
7,750.0	7,453.9	7,350.0	7,212.3	24.1	22.9	-55.10	-184.0	920.3	424.8	389.6	35.19	12.073		
7,800.0	7,469.8	7,333.9	7,200.7	24.2	22.9	-47.96	-172.9	918.3	467.8	432.5	35.28	13.259		
7,850.0	7,482.4	7,320.1	7,190.6	24.4	22.8	-42.54	-163.7	916.6	510.2	474.6	35.61	14.328		
7,900.0	7,491.6	7,300.0	7,175.6	24.7	22.7	-37.73	-150.6	914.1	551.8	516.1	35.67	15.471		
7,950.0	7,497.5	7,300.0	7,175.6	24.9	22.7	-35.13	-150.6	914.1	592.5	555.7	36.77	16.112		
8,000.0	7,499.9	7,274.3	7,155.8	25.2	22.6	-31.71	-134.4	910.7	631.8	595.1	36.68	17.225		
8,010.3	7,500.0	7,270.9	7,153.2	25.2	22.6	-31.20	-132.4	910.3	639.8	603.0	36.76	17.406		
8,100.0	7,500.0	7,250.0	7,136.7	25.8	22.5	-30.37	-119.9	907.5	710.3	672.6	37.66	18.862		
8,200.0	7,500.0	7,215.5	7,108.6	26.5	22.4	-29.09	-100.3	902.8	791.4	753.3	38.04	20.806		
8,300.0	7,500.0	7,200.0	7,095.7	27.3	22.3	-28.56	-92.0	900.6	874.9	836.0	38.87	22.511		
8,400.0	7,500.0	7,168.5	7,069.0	28.2	22.2	-27.53	-76.0	896.1	960.1	921.0	39.09	24.563		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	1.0	1.0	0.0	0.0	-89.83	0.4	-120.0	120.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.83	0.4	-120.0	120.0	119.7	0.30	402.173		
200.0	200.0	201.0	201.0	0.3	0.3	-89.83	0.4	-120.0	120.0	119.4	0.65	185.368		
300.0	300.0	301.0	301.0	0.5	0.5	-89.83	0.4	-120.0	120.0	119.0	1.00	120.441		
350.0	350.0	351.0	351.0	0.6	0.6	-89.83	0.4	-120.0	120.0	118.9	1.17	102.491		
400.0	400.0	401.0	401.0	0.7	0.7	160.59	0.4	-120.0	120.2	118.9	1.35	89.349		
500.0	500.0	500.9	500.9	0.8	0.9	161.69	2.1	-120.0	121.9	120.2	1.70	71.837		
600.0	599.9	600.5	600.3	1.0	1.0	164.57	7.4	-120.0	125.5	123.4	2.06	60.937		
700.0	699.8	702.2	701.8	1.2	1.2	168.17	14.1	-119.2	130.5	128.0	2.43	53.642		
800.0	799.5	804.1	803.5	1.4	1.4	171.47	20.2	-116.7	135.9	133.1	2.81	48.407		
900.0	899.2	906.1	905.3	1.6	1.6	174.48	25.7	-112.4	141.6	138.5	3.18	44.505		
1,000.0	998.6	1,008.2	1,007.1	1.9	1.8	177.23	30.4	-106.5	147.7	144.2	3.56	41.497		
1,100.0	1,097.9	1,110.5	1,109.0	2.1	2.1	179.73	34.5	-98.9	154.1	150.2	3.94	39.106		
1,200.0	1,196.9	1,212.9	1,211.0	2.4	2.3	-178.00	37.9	-89.6	160.7	156.4	4.33	37.147		
1,300.0	1,295.7	1,315.5	1,312.9	2.7	2.5	-175.93	40.6	-78.6	167.5	162.7	4.72	35.500		
1,364.2	1,358.9	1,381.3	1,378.2	2.9	2.7	-174.70	42.0	-70.6	171.9	166.9	4.97	34.566		
1,400.0	1,394.2	1,418.2	1,414.7	3.0	2.8	-174.05	42.6	-65.9	174.2	169.1	5.12	34.057		
1,500.0	1,492.6	1,521.0	1,516.6	3.4	3.0	-172.27	44.0	-51.4	179.8	174.2	5.53	32.532		
1,600.0	1,591.0	1,624.1	1,618.3	3.7	3.3	-170.54	44.6	-35.3	183.7	177.7	5.95	30.876		
1,700.0	1,689.5	1,727.2	1,719.9	4.0	3.7	-168.79	44.6	-17.4	185.9	179.6	6.39	29.110		
1,800.0	1,787.9	1,828.6	1,819.5	4.4	4.0	-167.04	43.9	1.6	186.9	180.0	6.85	27.297		
1,900.0	1,886.3	1,928.4	1,917.5	4.7	4.3	-165.32	43.2	20.5	187.7	180.4	7.32	25.643		
2,000.0	1,984.8	2,028.2	2,015.6	5.1	4.7	-163.62	42.5	39.4	188.8	181.0	7.82	24.154		
2,100.0	2,083.2	2,128.1	2,113.6	5.4	5.0	-161.93	41.8	58.3	190.0	181.7	8.33	22.808		
2,200.0	2,181.7	2,227.9	2,211.6	5.8	5.4	-160.27	41.1	77.1	191.4	182.5	8.87	21.588		
2,300.0	2,280.1	2,327.8	2,309.6	6.1	5.7	-158.64	40.4	96.0	192.9	183.5	9.42	20.481		
2,400.0	2,378.5	2,427.6	2,407.7	6.5	6.1	-157.03	39.7	114.9	194.6	184.7	9.99	19.475		
2,500.0	2,477.0	2,527.4	2,505.7	6.8	6.4	-155.45	39.0	133.8	196.5	185.9	10.59	18.559		
2,600.0	2,575.4	2,627.3	2,603.7	7.2	6.8	-153.90	38.2	152.7	198.5	187.3	11.20	17.724		
2,700.0	2,673.8	2,727.1	2,701.8	7.5	7.2	-152.39	37.5	171.6	200.6	188.8	11.83	16.963		
2,800.0	2,772.3	2,826.9	2,799.8	7.9	7.5	-150.90	36.8	190.5	202.9	190.4	12.47	16.268		
2,900.0	2,870.7	2,926.8	2,897.8	8.2	7.9	-149.45	36.1	209.3	205.3	192.2	13.13	15.633		
3,000.0	2,969.2	3,026.6	2,995.9	8.6	8.2	-148.04	35.4	228.2	207.9	194.0	13.81	15.052		
3,100.0	3,067.6	3,126.5	3,093.9	8.9	8.6	-146.66	34.7	247.1	210.5	196.0	14.50	14.521		
3,200.0	3,166.0	3,226.3	3,191.9	9.3	9.0	-145.31	34.0	266.0	213.3	198.1	15.20	14.035		
3,300.0	3,264.5	3,326.1	3,290.0	9.6	9.4	-144.00	33.3	284.9	216.2	200.3	15.91	13.589		
3,400.0	3,362.9	3,426.0	3,388.0	10.0	9.7	-142.73	32.6	303.8	219.2	202.6	16.63	13.180		
3,500.0	3,461.3	3,525.8	3,486.0	10.3	10.1	-141.49	31.9	322.7	222.3	204.9	17.36	12.805		
3,600.0	3,559.8	3,625.6	3,584.1	10.7	10.5	-140.28	31.2	341.5	225.5	207.4	18.10	12.460		
3,700.0	3,658.2	3,725.5	3,682.1	11.1	10.8	-139.11	30.5	360.4	228.8	210.0	18.85	12.142		
3,800.0	3,756.7	3,825.3	3,780.1	11.4	11.2	-137.97	29.7	379.3	232.2	212.6	19.60	11.850		
3,900.0	3,855.1	3,925.2	3,878.2	11.8	11.6	-136.87	29.0	398.2	235.7	215.4	20.36	11.580		
4,000.0	3,953.5	4,025.0	3,976.2	12.1	12.0	-135.80	28.3	417.1	239.3	218.2	21.12	11.331		
4,100.0	4,052.0	4,124.8	4,074.2	12.5	12.3	-134.76	27.6	436.0	243.0	221.1	21.89	11.102		
4,200.0	4,150.4	4,224.7	4,172.3	12.8	12.7	-133.75	26.9	454.9	246.7	224.0	22.66	10.889		
4,300.0	4,248.8	4,324.5	4,270.3	13.2	13.1	-132.77	26.2	473.7	250.5	227.1	23.43	10.692		
4,400.0	4,347.3	4,424.3	4,368.3	13.5	13.5	-131.82	25.5	492.6	254.4	230.2	24.21	10.510		
4,500.0	4,445.7	4,524.2	4,466.4	13.9	13.8	-130.90	24.8	511.5	258.3	233.4	24.98	10.341		
4,600.0	4,544.2	4,624.0	4,564.4	14.3	14.2	-130.01	24.1	530.4	262.4	236.6	25.76	10.184		
4,700.0	4,642.6	4,723.9	4,662.4	14.6	14.6	-129.15	23.4	549.3	266.4	239.9	26.54	10.037		
4,800.0	4,741.0	4,823.7	4,760.4	15.0	15.0	-128.31	22.7	568.2	270.6	243.2	27.33	9.902		
4,900.0	4,839.5	4,923.5	4,858.5	15.3	15.3	-127.49	22.0	587.1	274.8	246.6	28.11	9.775		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	5,023.4	4,956.5	15.7	15.7	-126.71	21.2	605.9	279.0	250.1	28.89	9.657		
5,100.0	5,036.3	5,123.2	5,054.5	16.0	16.1	-125.94	20.5	624.8	283.3	253.6	29.67	9.547		
5,200.0	5,134.8	5,223.0	5,152.6	16.4	16.5	-125.20	19.8	643.7	287.6	257.2	30.46	9.444		
5,300.0	5,233.2	5,322.9	5,250.6	16.7	16.8	-124.48	19.1	662.6	292.0	260.8	31.24	9.348		
5,400.0	5,331.7	5,422.7	5,348.6	17.1	17.2	-123.78	18.4	681.5	296.5	264.4	32.02	9.258		
5,500.0	5,430.1	5,522.5	5,446.7	17.5	17.6	-123.10	17.7	700.4	300.9	268.1	32.81	9.174		
5,600.0	5,528.5	5,622.4	5,544.7	17.8	18.0	-122.44	17.0	719.3	305.5	271.9	33.59	9.095		
5,700.0	5,627.0	5,722.2	5,642.7	18.2	18.3	-121.81	16.3	738.1	310.0	275.7	34.37	9.021		
5,800.0	5,725.4	5,822.1	5,740.8	18.5	18.7	-121.19	15.6	757.0	314.6	279.5	35.15	8.951		
5,900.0	5,823.8	5,921.9	5,838.8	18.9	19.1	-120.58	14.9	775.9	319.3	283.3	35.93	8.886		
6,000.0	5,922.3	6,021.7	5,936.8	19.2	19.5	-120.00	14.2	794.8	323.9	287.2	36.71	8.824		
6,100.0	6,020.7	6,121.6	6,034.9	19.6	19.8	-119.43	13.5	813.7	328.6	291.1	37.49	8.767		
6,200.0	6,119.2	6,221.4	6,132.9	20.0	20.2	-118.88	12.7	832.6	333.3	295.1	38.26	8.712		
6,300.0	6,217.6	6,321.2	6,230.9	20.3	20.6	-118.34	12.0	851.5	338.1	299.1	39.04	8.661		
6,400.0	6,316.0	6,421.1	6,329.0	20.7	21.0	-117.82	11.3	870.3	342.9	303.1	39.81	8.613		
6,500.0	6,414.5	6,520.9	6,427.0	21.0	21.3	-117.31	10.6	889.2	347.7	307.1	40.59	8.567		
6,600.0	6,512.9	6,620.8	6,525.0	21.4	21.7	-116.82	9.9	908.1	352.6	311.2	41.36	8.524		
6,700.0	6,611.3	6,720.6	6,623.1	21.7	22.1	-116.34	9.2	927.0	357.4	315.3	42.13	8.484		
6,800.0	6,709.8	6,820.4	6,721.1	22.1	22.5	-115.87	8.5	945.9	362.3	319.4	42.90	8.445		
6,843.8	6,752.9	6,864.1	6,764.0	22.3	22.6	-115.67	8.2	954.2	364.5	321.2	43.24	8.429		
6,850.0	6,759.0	6,870.4	6,770.1	22.3	22.7	-112.97	8.1	955.3	364.7	321.5	43.29	8.426		
6,900.0	6,808.3	6,920.3	6,819.2	22.4	22.8	-89.59	7.8	964.8	365.0	321.4	43.67	8.359		
6,950.0	6,857.5	6,970.2	6,868.2	22.6	23.0	-68.31	7.4	974.2	361.9	317.8	44.05	8.214		
7,000.0	6,906.4	7,019.8	6,916.8	22.7	23.2	-53.05	7.1	983.6	355.3	310.8	44.43	7.996		
7,050.0	6,954.8	7,068.7	6,964.9	22.8	23.4	-43.03	6.7	992.9	345.2	300.4	44.80	7.706		
7,100.0	7,002.3	7,116.9	7,012.2	22.9	23.6	-36.46	6.4	1,002.0	331.8	286.7	45.16	7.348		
7,150.0	7,048.9	7,199.1	7,092.7	23.0	23.9	-32.32	1.3	1,017.5	312.6	267.1	45.44	6.879		
7,200.0	7,094.2	7,270.9	7,162.2	23.1	24.2	-30.09	-10.8	1,030.9	285.5	240.3	45.20	6.316		
7,250.0	7,138.1	7,330.0	7,218.2	23.1	24.4	-29.59	-26.1	1,041.7	252.1	207.4	44.66	5.645		
7,300.0	7,180.2	7,377.1	7,261.9	23.2	24.6	-31.13	-41.6	1,050.1	213.9	169.9	43.96	4.864		
7,350.0	7,220.5	7,413.5	7,294.9	23.3	24.7	-35.76	-55.6	1,056.4	172.0	128.8	43.19	3.983		
7,400.0	7,258.7	7,440.9	7,319.2	23.3	24.8	-45.99	-67.2	1,061.1	127.8	85.6	42.25	3.025		
7,450.0	7,294.7	7,460.7	7,336.6	23.4	24.9	-65.73	-76.2	1,064.5	82.6	42.0	40.61	2.034		
7,500.0	7,328.2	7,474.3	7,348.3	23.5	24.9	-91.79	-82.6	1,066.7	40.6	6.5	34.15	1.189 Level 2		
7,529.7	7,346.9	7,479.8	7,353.1	23.5	25.0	-103.53	-85.3	1,067.6	28.2	1.8	26.42	1.069 Level 2, CC		
7,550.0	7,359.1	7,482.7	7,355.5	23.5	25.0	-108.47	-86.7	1,068.1	34.7	0.1	34.55	1.003 Level 2, ES, SF		
7,600.0	7,387.2	7,487.0	7,359.2	23.6	25.0	-110.13	-88.8	1,068.8	75.4	33.6	41.81	1.803		
7,650.0	7,412.5	7,487.7	7,359.8	23.8	25.0	-97.74	-89.2	1,068.9	123.2	80.6	42.62	2.890		
7,700.0	7,434.7	7,485.6	7,358.0	23.9	25.0	-74.37	-88.1	1,068.6	172.2	129.3	42.86	4.018		
7,750.0	7,453.9	7,481.0	7,354.1	24.1	25.0	-51.76	-85.9	1,067.8	221.3	178.3	43.02	5.145		
7,800.0	7,469.8	7,474.3	7,348.4	24.2	24.9	-37.22	-82.7	1,066.7	270.2	227.0	43.20	6.256		
7,850.0	7,482.4	7,466.0	7,341.1	24.4	24.9	-28.78	-78.7	1,065.3	318.6	275.2	43.40	7.341		
7,900.0	7,491.6	7,450.0	7,327.2	24.7	24.8	-23.12	-71.3	1,062.7	366.4	323.1	43.26	8.470		
7,950.0	7,497.5	7,450.0	7,327.2	24.9	24.8	-20.78	-71.3	1,062.7	413.2	369.1	44.13	9.362		
8,000.0	7,499.9	7,432.8	7,312.1	25.2	24.8	-18.34	-63.7	1,059.7	459.0	414.9	44.13	10.401		
8,010.3	7,500.0	7,430.1	7,309.7	25.2	24.8	-17.99	-62.5	1,059.3	468.4	424.2	44.19	10.599		
8,100.0	7,500.0	7,400.0	7,282.7	25.8	24.7	-17.16	-50.2	1,054.1	550.1	505.8	44.31	12.414		
8,200.0	7,500.0	7,387.4	7,271.3	26.5	24.6	-16.87	-45.4	1,051.9	642.2	597.1	45.05	14.255		
8,300.0	7,500.0	7,369.0	7,254.5	27.3	24.5	-16.48	-38.7	1,048.6	735.4	690.0	45.40	16.199		
8,400.0	7,500.0	7,350.0	7,236.9	28.2	24.5	-16.13	-32.3	1,045.3	829.5	783.9	45.63	18.179		
8,500.0	7,500.0	7,350.0	7,236.9	29.1	24.5	-16.13	-32.3	1,045.3	924.4	878.3	46.20	20.012		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.84	0.3	-110.2	110.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.84	0.3	-110.2	110.2	109.9	0.30	371.534		
200.0	200.0	200.0	200.0	0.3	0.3	-89.84	0.3	-110.2	110.2	109.6	0.65	170.705		
300.0	300.0	300.0	300.0	0.5	0.5	-89.84	0.3	-110.2	110.2	109.2	0.99	110.809		
350.0	350.0	350.0	350.0	0.6	0.6	-89.84	0.3	-110.2	110.2	109.1	1.17	94.270 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.75	0.6	-110.2	110.4	109.1	1.34	82.176		
500.0	500.0	499.9	499.8	0.8	0.9	162.37	3.2	-110.2	112.2	110.5	1.70	66.103		
600.0	599.9	599.4	599.2	1.0	1.0	165.45	8.4	-110.2	115.8	113.8	2.06	56.241		
700.0	699.8	698.5	698.0	1.2	1.2	169.69	16.2	-110.2	121.9	119.5	2.44	50.007		
800.0	799.5	801.1	800.2	1.4	1.5	174.35	25.4	-109.1	129.6	126.8	2.83	45.810		
900.0	899.2	905.2	904.0	1.6	1.7	178.26	33.0	-104.8	136.3	133.1	3.22	42.316		
1,000.0	998.6	1,009.8	1,008.1	1.9	1.9	-178.43	38.7	-97.1	141.7	138.1	3.61	39.210		
1,100.0	1,097.9	1,114.7	1,112.3	2.1	2.1	-175.55	42.6	-86.1	145.6	141.6	4.01	36.314		
1,200.0	1,196.9	1,219.9	1,216.5	2.4	2.4	-172.99	44.7	-71.6	147.8	143.4	4.41	33.526		
1,300.0	1,295.7	1,325.2	1,320.2	2.7	2.7	-170.64	44.8	-53.9	148.4	143.6	4.82	30.787		
1,364.2	1,358.9	1,392.7	1,386.5	2.9	2.9	-169.20	43.9	-40.7	147.9	142.8	5.09	29.040		
1,400.0	1,394.2	1,429.4	1,422.4	3.0	3.0	-168.43	43.1	-33.0	147.2	142.0	5.25	28.052		
1,500.0	1,492.6	1,529.3	1,520.0	3.4	3.3	-166.28	40.9	-12.1	145.4	139.7	5.70	25.494		
1,600.0	1,591.0	1,629.1	1,617.5	3.7	3.7	-164.08	38.7	8.9	143.7	137.5	6.18	23.252		
1,700.0	1,689.5	1,728.9	1,715.1	4.0	4.0	-161.83	36.5	29.9	142.3	135.6	6.69	21.276		
1,800.0	1,787.9	1,828.8	1,812.7	4.4	4.4	-159.54	34.2	50.9	141.1	133.9	7.23	19.526		
1,900.0	1,886.3	1,928.6	1,910.3	4.7	4.8	-157.21	32.0	71.9	140.1	132.3	7.80	17.973		
2,000.0	1,984.8	2,028.4	2,007.8	5.1	5.2	-154.86	29.8	92.8	139.4	131.0	8.40	16.593		
2,100.0	2,083.2	2,128.3	2,105.4	5.4	5.6	-152.48	27.5	113.8	138.9	129.8	9.04	15.367		
2,200.0	2,181.7	2,228.1	2,203.0	5.8	6.0	-150.10	25.3	134.8	138.6	128.9	9.71	14.277		
2,257.9	2,238.6	2,285.9	2,259.5	6.0	6.2	-148.71	24.0	146.9	138.6	128.5	10.11	13.703		
2,300.0	2,280.1	2,327.9	2,300.6	6.1	6.4	-147.70	23.1	155.8	138.6	128.2	10.41	13.310		
2,400.0	2,378.5	2,427.7	2,398.2	6.5	6.8	-145.31	20.9	176.7	138.8	127.7	11.15	12.453		
2,500.0	2,477.0	2,527.6	2,495.7	6.8	7.2	-142.93	18.6	197.7	139.3	127.4	11.91	11.694		
2,600.0	2,575.4	2,627.4	2,593.3	7.2	7.6	-140.58	16.4	218.7	140.0	127.3	12.70	11.023		
2,700.0	2,673.8	2,727.2	2,690.9	7.5	8.0	-138.25	14.2	239.7	140.9	127.4	13.51	10.431		
2,800.0	2,772.3	2,827.1	2,788.5	7.9	8.4	-135.95	12.0	260.7	142.1	127.7	14.34	9.909		
2,900.0	2,870.7	2,926.9	2,886.0	8.2	8.8	-133.70	9.7	281.6	143.5	128.3	15.19	9.449		
3,000.0	2,969.2	3,026.7	2,983.6	8.6	9.2	-131.49	7.5	302.6	145.1	129.0	16.04	9.044		
3,100.0	3,067.6	3,126.6	3,081.2	8.9	9.6	-129.33	5.3	323.6	146.9	130.0	16.91	8.688		
3,200.0	3,166.0	3,226.4	3,178.8	9.3	10.0	-127.23	3.0	344.6	148.9	131.2	17.78	8.375		
3,300.0	3,264.5	3,326.2	3,276.4	9.6	10.4	-125.19	0.8	365.5	151.2	132.5	18.66	8.101		
3,400.0	3,362.9	3,426.1	3,373.9	10.0	10.8	-123.20	-1.4	386.5	153.6	134.0	19.54	7.860		
3,500.0	3,461.3	3,525.9	3,471.5	10.3	11.2	-121.29	-3.6	407.5	156.2	135.7	20.41	7.649		
3,600.0	3,559.8	3,625.7	3,569.1	10.7	11.6	-119.43	-5.9	428.5	158.9	137.6	21.29	7.465		
3,700.0	3,658.2	3,725.6	3,666.7	11.1	12.0	-117.65	-8.1	449.5	161.8	139.7	22.16	7.304		
3,800.0	3,756.7	3,825.4	3,764.2	11.4	12.4	-115.92	-10.3	470.4	164.9	141.9	23.02	7.163		
3,900.0	3,855.1	3,925.2	3,861.8	11.8	12.9	-114.26	-12.5	491.4	168.1	144.2	23.88	7.040		
4,000.0	3,953.5	4,025.1	3,959.4	12.1	13.3	-112.67	-14.8	512.4	171.5	146.7	24.73	6.934		
4,100.0	4,052.0	4,124.9	4,057.0	12.5	13.7	-111.13	-17.0	533.4	174.9	149.4	25.57	6.841		
4,200.0	4,150.4	4,224.7	4,154.5	12.8	14.1	-109.66	-19.2	554.4	178.5	152.1	26.41	6.761		
4,300.0	4,248.8	4,324.6	4,252.1	13.2	14.5	-108.24	-21.5	575.3	182.3	155.0	27.24	6.692		
4,400.0	4,347.3	4,424.4	4,349.7	13.5	14.9	-106.89	-23.7	596.3	186.1	158.0	28.05	6.633		
4,500.0	4,445.7	4,524.2	4,447.3	13.9	15.3	-105.59	-25.9	617.3	190.0	161.1	28.87	6.582		
4,600.0	4,544.2	4,624.0	4,544.9	14.3	15.7	-104.34	-28.1	638.3	194.0	164.3	29.67	6.539		
4,700.0	4,642.6	4,723.9	4,642.4	14.6	16.1	-103.14	-30.4	659.2	198.1	167.7	30.46	6.504		
4,800.0	4,741.0	4,823.7	4,740.0	15.0	16.6	-101.99	-32.6	680.2	202.3	171.0	31.25	6.474		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
4,900.0	4,839.5	4,923.5	4,837.6	15.3	17.0	-100.89	-34.8	701.2	206.6	174.5	32.03	6.449		
5,000.0	4,937.9	5,023.4	4,935.2	15.7	17.4	-99.83	-37.0	722.2	210.9	178.1	32.80	6.429		
5,100.0	5,036.3	5,123.2	5,032.7	16.0	17.8	-98.82	-39.3	743.2	215.3	181.7	33.57	6.414		
5,200.0	5,134.8	5,223.0	5,130.3	16.4	18.2	-97.84	-41.5	764.1	219.8	185.4	34.33	6.402		
5,300.0	5,233.2	5,322.9	5,227.9	16.7	18.6	-96.91	-43.7	785.1	224.3	189.2	35.08	6.394		
5,400.0	5,331.7	5,422.7	5,325.5	17.1	19.0	-96.01	-46.0	806.1	228.9	193.1	35.83	6.389		
5,500.0	5,430.1	5,522.5	5,423.1	17.5	19.4	-95.15	-48.2	827.1	233.5	197.0	36.57	6.386		
5,600.0	5,528.5	5,622.4	5,520.6	17.8	19.9	-94.32	-50.4	848.1	238.2	200.9	37.30	6.386		
5,700.0	5,627.0	5,722.2	5,618.2	18.2	20.3	-93.53	-52.6	869.0	243.0	204.9	38.03	6.388		
5,800.0	5,725.4	5,822.0	5,715.8	18.5	20.7	-92.76	-54.9	890.0	247.7	209.0	38.76	6.392		
5,900.0	5,823.8	5,921.9	5,813.4	18.9	21.1	-92.03	-57.1	911.0	252.6	213.1	39.48	6.397		
6,000.0	5,922.3	6,021.7	5,910.9	19.2	21.5	-91.32	-59.3	932.0	257.4	217.2	40.20	6.404		
6,100.0	6,020.7	6,121.5	6,008.5	19.6	21.9	-90.64	-61.5	952.9	262.3	221.4	40.91	6.412		
6,200.0	6,119.2	6,221.4	6,106.1	20.0	22.3	-89.98	-63.8	973.9	267.3	225.7	41.62	6.421		
6,300.0	6,217.6	6,321.2	6,203.7	20.3	22.8	-89.35	-66.0	994.9	272.3	229.9	42.33	6.432		
6,400.0	6,316.0	6,421.0	6,301.2	20.7	23.2	-88.74	-68.2	1,015.9	277.3	234.2	43.03	6.443		
6,500.0	6,414.5	6,520.9	6,398.8	21.0	23.6	-88.15	-70.5	1,036.9	282.3	238.6	43.73	6.455		
6,600.0	6,512.9	6,620.7	6,496.4	21.4	24.0	-87.58	-72.7	1,057.8	287.4	242.9	44.43	6.468		
6,700.0	6,611.3	6,720.5	6,594.0	21.7	24.4	-87.03	-74.9	1,078.8	292.5	247.3	45.12	6.481		
6,800.0	6,709.8	6,820.3	6,691.6	22.1	24.8	-86.50	-77.1	1,099.8	297.6	251.8	45.81	6.495		
6,843.8	6,752.9	6,864.0	6,734.3	22.3	25.0	-86.28	-78.1	1,109.0	299.8	253.7	46.12	6.502		
6,850.0	6,759.0	6,870.3	6,740.3	22.3	25.0	-83.58	-78.2	1,110.3	300.1	254.0	46.16	6.502		
6,900.0	6,808.3	6,920.2	6,789.2	22.4	25.2	-59.99	-79.4	1,120.8	300.7	254.2	46.46	6.472		
6,950.0	6,857.5	6,970.0	6,837.8	22.6	25.4	-38.05	-80.5	1,131.2	298.1	251.4	46.70	6.384		
7,000.0	6,906.4	7,019.4	6,886.1	22.7	25.6	-21.64	-81.6	1,141.6	292.4	245.5	46.86	6.239		
7,050.0	6,954.8	7,068.2	6,933.8	22.8	25.8	-9.90	-82.7	1,151.9	283.6	236.7	46.92	6.045		
7,100.0	7,002.3	7,116.1	6,980.6	22.9	26.0	-0.96	-83.7	1,161.9	272.0	225.2	46.84	5.807		
7,150.0	7,048.9	7,162.9	7,026.4	23.0	26.2	6.60	-84.8	1,171.8	257.8	211.2	46.58	5.535		
7,200.0	7,094.2	7,225.2	7,087.1	23.1	26.5	15.35	-85.7	1,184.9	239.7	193.7	46.00	5.211		
7,250.0	7,138.1	7,280.1	7,140.2	23.1	26.7	25.54	-86.6	1,196.3	217.3	172.6	44.63	4.868		
7,300.0	7,180.2	7,326.2	7,184.2	23.2	26.9	37.38	-106.4	1,205.8	192.6	150.4	42.22	4.562		
7,350.0	7,220.5	7,363.9	7,219.7	23.3	27.1	50.24	-116.6	1,213.5	168.7	130.4	38.34	4.401 SF		
7,400.0	7,258.7	7,393.9	7,247.5	23.3	27.2	62.54	-126.1	1,219.6	149.7	117.0	32.73	4.574		
7,450.0	7,294.7	7,417.1	7,268.8	23.4	27.3	72.62	-134.2	1,224.2	140.8	113.7	27.18	5.182		
7,457.4	7,299.8	7,420.1	7,271.5	23.4	27.4	73.87	-135.3	1,224.8	140.7	114.0	26.66	5.276		
7,500.0	7,328.2	7,434.5	7,284.5	23.5	27.4	79.59	-140.8	1,227.6	146.2	119.6	26.56	5.503		
7,550.0	7,359.1	7,446.8	7,295.6	23.5	27.5	83.32	-145.7	1,230.0	165.7	134.8	30.91	5.361		
7,600.0	7,387.2	7,454.9	7,302.8	23.6	27.5	83.96	-149.0	1,231.6	196.0	160.3	35.64	5.499		
7,650.0	7,412.5	7,459.4	7,306.7	23.8	27.5	81.71	-150.8	1,232.5	233.1	194.0	39.13	5.958		
7,700.0	7,434.7	7,460.7	7,307.9	23.9	27.5	76.74	-151.4	1,232.7	274.4	232.9	41.52	6.609		
7,750.0	7,453.9	7,459.4	7,306.8	24.1	27.5	69.36	-150.9	1,232.5	318.1	274.9	43.20	7.363		
7,800.0	7,469.8	7,450.0	7,298.4	24.2	27.5	58.14	-147.0	1,230.7	363.3	319.1	44.12	8.232		
7,850.0	7,482.4	7,450.0	7,298.4	24.4	27.5	50.30	-147.0	1,230.7	408.9	363.5	45.38	9.010		
7,900.0	7,491.6	7,450.0	7,298.4	24.7	27.5	42.72	-147.0	1,230.7	454.8	408.3	46.47	9.787		
7,950.0	7,497.5	7,434.7	7,284.7	24.9	27.4	32.84	-140.9	1,227.7	500.3	453.5	46.85	10.680		
8,000.0	7,499.9	7,424.9	7,275.8	25.2	27.4	26.02	-137.1	1,225.7	545.5	498.1	47.42	11.502		
8,010.3	7,500.0	7,422.7	7,273.9	25.2	27.4	24.78	-136.3	1,225.3	554.7	507.2	47.54	11.669		
8,100.0	7,500.0	7,400.0	7,253.1	25.8	27.3	22.02	-128.2	1,220.8	635.7	587.5	48.23	13.182		
8,200.0	7,500.0	7,387.4	7,241.5	26.5	27.2	20.63	-124.0	1,218.3	727.5	678.4	49.08	14.823		
8,300.0	7,500.0	7,372.1	7,227.4	27.3	27.1	19.06	-119.1	1,215.2	820.6	770.9	49.62	16.536		
8,400.0	7,500.0	7,350.0	7,206.7	28.2	27.0	17.00	-112.7	1,210.7	914.7	864.8	49.88	18.337		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.86	0.3	-100.2	100.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.86	0.3	-100.2	100.2	99.9	0.30	337.587		
200.0	200.0	200.0	200.0	0.3	0.3	-89.86	0.3	-100.2	100.2	99.5	0.65	155.107		
300.0	300.0	300.0	300.0	0.5	0.5	-89.86	0.3	-100.2	100.2	99.2	0.99	100.684	CC	
350.0	350.0	350.0	350.0	0.6	0.6	-89.61	0.7	-100.2	100.2	99.0	1.17	85.559	ES	
400.0	400.0	399.9	399.9	0.7	0.7	161.56	2.0	-100.2	100.4	99.0	1.35	74.553		
500.0	500.0	499.6	499.4	0.8	0.9	164.78	7.2	-100.2	102.3	100.6	1.71	59.776		
600.0	599.9	598.6	598.1	1.0	1.1	169.87	15.8	-100.2	106.8	104.7	2.10	50.833		
700.0	699.8	701.7	700.7	1.2	1.3	175.62	26.0	-98.5	112.5	110.0	2.50	44.906		
800.0	799.5	805.3	803.7	1.4	1.5	-179.20	35.0	-93.2	117.3	114.4	2.91	40.249		
900.0	899.2	909.0	906.8	1.6	1.8	-174.37	42.7	-84.4	121.1	117.8	3.33	36.325		
1,000.0	998.6	1,013.0	1,009.7	1.9	2.1	-169.70	49.2	-72.1	123.8	120.0	3.77	32.833		
1,100.0	1,097.9	1,116.9	1,112.3	2.1	2.3	-165.05	54.4	-56.3	125.4	121.2	4.24	29.603		
1,200.0	1,196.9	1,220.7	1,214.3	2.4	2.7	-160.27	58.3	-36.9	126.0	121.2	4.75	26.542		
1,300.0	1,295.7	1,324.4	1,315.4	2.7	3.1	-155.24	60.9	-14.2	125.7	120.3	5.32	23.608		
1,364.2	1,358.9	1,390.8	1,379.7	2.9	3.3	-151.81	61.9	2.2	125.1	119.3	5.74	21.796		
1,400.0	1,394.2	1,427.2	1,414.9	3.0	3.5	-149.83	62.3	11.8	124.5	118.6	5.98	20.813		
1,500.0	1,492.6	1,526.5	1,510.6	3.4	3.9	-144.30	63.1	38.0	123.7	117.0	6.72	18.400		
1,523.5	1,515.7	1,549.8	1,533.1	3.4	4.0	-142.99	63.3	44.2	123.6	116.7	6.90	17.907		
1,600.0	1,591.0	1,625.8	1,606.3	3.7	4.4	-138.74	63.9	64.3	124.0	116.5	7.52	16.486		
1,700.0	1,689.5	1,725.0	1,702.1	4.0	4.8	-133.27	64.7	90.5	125.5	117.1	8.37	14.996		
1,800.0	1,787.9	1,824.3	1,797.8	4.4	5.3	-127.96	65.5	116.8	128.1	118.8	9.24	13.860		
1,900.0	1,886.3	1,923.6	1,893.5	4.7	5.8	-122.91	66.3	143.1	131.8	121.6	10.13	13.012		
2,000.0	1,984.8	2,022.8	1,989.2	5.1	6.3	-118.16	67.1	169.3	136.4	125.4	11.01	12.394		
2,100.0	2,083.2	2,122.1	2,085.0	5.4	6.8	-113.75	68.0	195.6	141.9	130.1	11.87	11.958		
2,200.0	2,181.7	2,221.4	2,180.7	5.8	7.2	-109.69	68.8	221.9	148.3	135.5	12.71	11.661		
2,300.0	2,280.1	2,320.6	2,276.4	6.1	7.7	-105.98	69.6	248.1	155.3	141.7	13.53	11.474		
2,400.0	2,378.5	2,419.9	2,372.1	6.5	8.2	-102.59	70.4	274.4	162.9	148.5	14.33	11.369		
2,500.0	2,477.0	2,519.2	2,467.9	6.8	8.7	-99.51	71.2	300.7	171.0	155.9	15.09	11.327	SF	
2,600.0	2,575.4	2,618.4	2,563.6	7.2	9.2	-96.72	72.0	326.9	179.6	163.7	15.84	11.334		
2,700.0	2,673.8	2,717.7	2,659.3	7.5	9.7	-94.19	72.9	353.2	188.5	171.9	16.57	11.377		
2,800.0	2,772.3	2,817.0	2,755.0	7.9	10.2	-91.89	73.7	379.4	197.8	180.5	17.28	11.447		
2,900.0	2,870.7	2,916.2	2,850.8	8.2	10.7	-89.79	74.5	405.7	207.4	189.4	17.98	11.537		
3,000.0	2,969.2	3,015.5	2,946.5	8.6	11.2	-87.89	75.3	432.0	217.2	198.5	18.66	11.641		
3,100.0	3,067.6	3,114.8	3,042.2	8.9	11.7	-86.15	76.1	458.2	227.2	207.9	19.33	11.756		
3,200.0	3,166.0	3,214.0	3,137.9	9.3	12.2	-84.55	76.9	484.5	237.5	217.5	19.99	11.879		
3,300.0	3,264.5	3,313.3	3,233.7	9.6	12.7	-83.09	77.8	510.8	247.9	227.2	20.65	12.006		
3,400.0	3,362.9	3,412.6	3,329.4	10.0	13.2	-81.75	78.6	537.0	258.4	237.2	21.30	12.136		
3,500.0	3,461.3	3,511.8	3,425.1	10.3	13.7	-80.51	79.4	563.3	269.1	247.2	21.94	12.268		
3,600.0	3,559.8	3,611.1	3,520.8	10.7	14.2	-79.37	80.2	589.6	279.9	257.4	22.58	12.399		
3,700.0	3,658.2	3,710.4	3,616.6	11.1	14.7	-78.31	81.0	615.8	290.8	267.6	23.21	12.530		
3,800.0	3,756.7	3,809.6	3,712.3	11.4	15.2	-77.33	81.8	642.1	301.8	278.0	23.84	12.660		
3,900.0	3,855.1	3,908.9	3,808.0	11.8	15.7	-76.42	82.6	668.3	312.9	288.4	24.47	12.788		
4,000.0	3,953.5	4,008.2	3,903.7	12.1	16.2	-75.57	83.5	694.6	324.0	298.9	25.09	12.914		
4,100.0	4,052.0	4,107.4	3,999.5	12.5	16.7	-74.78	84.3	720.9	335.2	309.5	25.71	13.038		
4,200.0	4,150.4	4,206.7	4,095.2	12.8	17.2	-74.04	85.1	747.1	346.5	320.2	26.33	13.158		
4,300.0	4,248.8	4,306.0	4,190.9	13.2	17.7	-73.34	85.9	773.4	357.8	330.9	26.95	13.276		
4,400.0	4,347.3	4,405.2	4,286.6	13.5	18.2	-72.69	86.7	799.7	369.2	341.6	27.57	13.392		
4,500.0	4,445.7	4,504.5	4,382.4	13.9	18.7	-72.08	87.5	825.9	380.6	352.4	28.19	13.504		
4,600.0	4,544.2	4,603.8	4,478.1	14.3	19.2	-71.50	88.4	852.2	392.1	363.3	28.80	13.613		
4,700.0	4,642.6	4,703.0	4,573.8	14.6	19.7	-70.95	89.2	878.4	403.6	374.2	29.42	13.720		
4,800.0	4,741.0	4,802.3	4,669.5	15.0	20.2	-70.44	90.0	904.7	415.1	385.1	30.03	13.824		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft					
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft				
Reference													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)									
4,900.0	4,839.5	4,901.6	4,765.3	15.3	20.7	-69.95	90.8	931.0	426.7	396.0	30.64	13.925							
5,000.0	4,937.9	5,000.8	4,861.0	15.7	21.2	-69.49	91.6	957.2	438.3	407.0	31.25	14.023							
5,100.0	5,036.3	5,100.1	4,956.7	16.0	21.7	-69.06	92.4	983.5	449.9	418.0	31.87	14.118							
5,200.0	5,134.8	5,199.4	5,052.4	16.4	22.2	-68.64	93.3	1,009.8	461.5	429.0	32.48	14.211							
5,300.0	5,233.2	5,298.6	5,148.2	16.7	22.7	-68.25	94.1	1,036.0	473.2	440.1	33.09	14.301							
5,400.0	5,331.7	5,397.9	5,243.9	17.1	23.2	-67.87	94.9	1,062.3	484.9	451.2	33.70	14.389							
5,500.0	5,430.1	5,497.2	5,339.6	17.5	23.7	-67.51	95.7	1,088.6	496.6	462.3	34.31	14.475							
5,600.0	5,528.5	5,596.4	5,435.3	17.8	24.2	-67.17	96.5	1,114.8	508.3	473.4	34.92	14.558							
5,700.0	5,627.0	5,695.7	5,531.1	18.2	24.7	-66.84	97.3	1,141.1	520.0	484.5	35.53	14.638							
5,800.0	5,725.4	5,795.0	5,626.8	18.5	25.2	-66.53	98.1	1,167.3	531.8	495.7	36.13	14.717							
5,900.0	5,823.8	5,894.2	5,722.5	18.9	25.7	-66.23	99.0	1,193.6	543.6	506.8	36.74	14.793							
6,000.0	5,922.3	5,993.5	5,818.2	19.2	26.3	-65.95	99.8	1,219.9	555.3	518.0	37.35	14.868							
6,100.0	6,020.7	6,092.7	5,914.0	19.6	26.8	-65.67	100.6	1,246.1	567.1	529.2	37.96	14.940							
6,200.0	6,119.2	6,192.0	6,009.7	20.0	27.3	-65.41	101.4	1,272.4	579.0	540.4	38.57	15.011							
6,300.0	6,217.6	6,291.3	6,105.4	20.3	27.8	-65.16	102.2	1,298.7	590.8	551.6	39.18	15.079							
6,400.0	6,316.0	6,390.5	6,201.1	20.7	28.3	-64.92	103.0	1,324.9	602.6	562.8	39.79	15.146							
6,500.0	6,414.5	6,489.8	6,296.9	21.0	28.8	-64.68	103.9	1,351.2	614.4	574.1	40.39	15.212							
6,600.0	6,512.9	6,589.1	6,392.6	21.4	29.3	-64.46	104.7	1,377.4	626.3	585.3	41.00	15.275							
6,700.0	6,611.3	6,688.3	6,488.3	21.7	29.8	-64.24	105.5	1,403.7	638.2	596.6	41.61	15.337							
6,800.0	6,709.8	6,787.6	6,584.0	22.1	30.3	-64.04	106.3	1,430.0	650.0	607.8	42.22	15.397							
6,843.8	6,752.9	6,831.1	6,625.9	22.3	30.5	-63.95	106.7	1,441.5	655.2	612.7	42.48	15.423							
6,850.0	6,759.0	6,837.2	6,631.9	22.3	30.5	-61.30	106.7	1,443.1	655.9	613.4	42.52	15.427							
6,900.0	6,808.3	6,887.0	6,679.9	22.4	30.8	-38.13	107.1	1,456.3	660.4	617.6	42.73	15.455							
6,950.0	6,857.5	6,936.7	6,727.8	22.6	31.0	-16.62	107.5	1,469.4	662.3	619.5	42.81	15.473							
7,000.0	6,906.4	7,061.8	6,848.0	22.7	31.7	1.10	98.5	1,502.4	659.4	616.5	42.85	15.386							
7,050.0	6,954.8	7,178.9	6,957.5	22.8	32.2	15.91	70.6	1,532.4	648.8	606.9	41.89	15.488							
7,100.0	7,002.3	7,272.7	7,041.2	22.9	32.6	28.67	35.1	1,555.4	632.8	592.5	40.31	15.696							
7,150.0	7,048.9	7,343.7	7,101.1	23.0	32.9	39.70	0.8	1,571.8	613.8	575.4	38.41	15.980							
7,200.0	7,094.2	7,395.6	7,142.7	23.1	33.2	49.02	-28.0	1,583.2	593.9	557.4	36.56	16.247							
7,250.0	7,138.1	7,432.2	7,170.8	23.1	33.3	56.61	-50.2	1,591.0	574.7	540.0	34.67	16.574							
7,300.0	7,180.2	7,457.2	7,189.4	23.2	33.4	62.53	-66.2	1,596.1	557.4	524.6	32.82	16.984							
7,350.0	7,220.5	7,473.3	7,201.0	23.3	33.5	66.95	-76.9	1,599.2	543.1	512.1	31.01	17.511							
7,400.0	7,258.7	7,482.6	7,207.6	23.3	33.5	70.04	-83.1	1,601.0	532.4	503.0	29.32	18.155							
7,450.0	7,294.7	7,486.5	7,210.3	23.4	33.6	71.99	-85.7	1,601.8	525.8	497.9	27.86	18.870							
7,499.0	7,327.5	7,486.2	7,210.1	23.5	33.6	72.93	-85.6	1,601.8	523.6	496.8	26.81	19.534							
7,500.0	7,328.2	7,486.1	7,210.1	23.5	33.6	72.94	-85.5	1,601.7	523.6	496.9	26.79	19.547							
7,550.0	7,359.1	7,482.5	7,207.5	23.5	33.5	73.02	-83.0	1,601.0	526.0	499.7	26.25	20.040							
7,600.0	7,387.2	7,476.1	7,203.0	23.6	33.5	72.35	-78.7	1,599.8	532.6	506.3	26.32	20.234							
7,650.0	7,412.5	7,467.6	7,196.9	23.8	33.5	71.02	-73.0	1,598.1	543.4	516.3	27.02	20.110							
7,700.0	7,434.7	7,457.2	7,189.4	23.9	33.4	69.12	-66.2	1,596.1	557.7	529.5	28.24	19.751							
7,750.0	7,453.9	7,450.0	7,184.1	24.1	33.4	67.20	-61.5	1,594.6	575.2	545.3	29.99	19.183							
7,800.0	7,469.8	7,432.3	7,170.9	24.2	33.3	63.97	-50.2	1,591.0	595.4	563.7	31.69	18.786							
7,850.0	7,482.4	7,418.1	7,160.1	24.4	33.3	60.91	-41.5	1,588.0	617.6	584.0	33.66	18.352							
7,900.0	7,491.6	7,400.0	7,146.2	24.7	33.2	57.39	-30.6	1,584.2	641.6	606.1	35.54	18.055							
7,950.0	7,497.5	7,387.1	7,136.0	24.9	33.1	54.27	-23.1	1,581.4	666.8	629.1	37.62	17.724							
8,000.0	7,499.9	7,370.5	7,122.9	25.2	33.1	50.86	-13.7	1,577.8	692.8	653.3	39.52	17.531							
8,010.3	7,500.0	7,367.0	7,120.1	25.2	33.0	50.16	-11.8	1,577.0	698.2	658.3	39.90	17.500							
8,100.0	7,500.0	7,338.4	7,096.8	25.8	32.9	48.06	3.6	1,570.7	748.5	705.4	43.05	17.386							
8,200.0	7,500.0	7,300.0	7,064.6	26.5	32.7	45.29	22.6	1,561.8	810.9	765.2	45.71	17.743							
8,300.0	7,500.0	7,285.9	7,052.6	27.3	32.7	44.29	29.2	1,558.5	878.7	830.1	48.56	18.096							
8,400.0	7,500.0	7,264.3	7,033.9	28.2	32.6	42.78	38.7	1,553.4	951.1	900.4	50.66	18.774							

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.87	0.2	-90.1	90.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.87	0.2	-90.1	90.1	89.8	0.30	303.639		
200.0	200.0	200.0	200.0	0.3	0.3	-89.87	0.2	-90.1	90.1	89.4	0.65	139.510	CC	
200.2	200.2	200.2	200.2	0.3	0.3	-89.87	0.2	-90.1	90.1	89.4	0.65	139.362		
300.0	300.0	300.0	299.9	0.5	0.5	-88.77	1.9	-90.1	90.1	89.1	1.00	90.251		
350.0	350.0	349.9	349.8	0.6	0.6	-87.38	4.1	-90.1	90.2	89.0	1.18	76.228	ES	
400.0	400.0	399.7	399.5	0.7	0.7	164.95	7.2	-90.1	90.6	89.2	1.37	66.245		
500.0	500.0	498.8	498.3	0.8	0.9	170.50	15.8	-90.1	93.4	91.6	1.76	52.976		
600.0	599.9	601.5	600.5	1.0	1.2	176.91	25.9	-88.4	97.6	95.4	2.17	44.924		
700.0	699.8	704.6	703.0	1.2	1.4	-177.17	34.9	-83.2	100.9	98.4	2.58	39.054		
800.0	799.5	807.7	805.4	1.4	1.6	-171.50	42.8	-74.4	103.4	100.4	3.01	34.389		
900.0	899.2	910.9	907.7	1.6	1.9	-165.89	49.4	-62.2	105.1	101.6	3.45	30.438		
1,000.0	998.6	1,014.0	1,009.4	1.9	2.2	-160.14	54.8	-46.5	105.9	102.0	3.93	26.943		
1,100.0	1,097.9	1,116.9	1,110.4	2.1	2.5	-154.11	58.9	-27.4	106.1	101.6	4.46	23.770		
1,200.0	1,196.9	1,219.5	1,210.5	2.4	2.9	-147.64	61.8	-4.9	105.8	100.7	5.07	20.868		
1,300.0	1,295.7	1,321.8	1,309.5	2.7	3.4	-140.61	63.5	20.9	105.4	99.6	5.77	18.245		
1,362.0	1,356.8	1,384.9	1,370.1	2.9	3.7	-135.94	64.0	38.4	105.2	99.0	6.27	16.790		
1,364.2	1,358.9	1,387.0	1,372.1	2.9	3.7	-135.78	64.0	39.0	105.2	98.9	6.28	16.744		
1,400.0	1,394.2	1,422.5	1,406.1	3.0	3.8	-133.10	64.1	49.2	105.4	98.8	6.58	16.011		
1,500.0	1,492.6	1,521.5	1,500.9	3.4	4.3	-125.73	64.5	77.6	107.0	99.5	7.43	14.392		
1,600.0	1,591.0	1,620.5	1,595.8	3.7	4.8	-118.69	64.8	106.1	110.3	102.0	8.30	13.294		
1,700.0	1,689.5	1,719.6	1,690.7	4.0	5.3	-112.14	65.2	134.5	115.3	106.1	9.15	12.597		
1,800.0	1,787.9	1,818.6	1,785.5	4.4	5.8	-106.20	65.6	162.9	121.6	111.6	9.97	12.196		
1,900.0	1,886.3	1,917.6	1,880.4	4.7	6.4	-100.89	65.9	191.4	129.1	118.4	10.75	12.010		
2,000.0	1,984.8	2,016.7	1,975.3	5.1	6.9	-96.19	66.3	219.8	137.6	126.1	11.49	11.977	SF	
2,100.0	2,083.2	2,115.7	2,070.1	5.4	7.4	-92.05	66.7	248.2	146.9	134.7	12.19	12.049		
2,200.0	2,181.7	2,214.7	2,165.0	5.8	7.9	-88.42	67.0	276.7	156.9	144.1	12.87	12.195		
2,300.0	2,280.1	2,313.8	2,259.9	6.1	8.5	-85.23	67.4	305.1	167.5	154.0	13.52	12.389		
2,400.0	2,378.5	2,412.8	2,354.7	6.5	9.0	-82.43	67.8	333.5	178.5	164.4	14.15	12.615		
2,500.0	2,477.0	2,511.8	2,449.6	6.8	9.5	-79.95	68.1	362.0	189.9	175.1	14.77	12.859		
2,600.0	2,575.4	2,610.9	2,544.4	7.2	10.1	-77.75	68.5	390.4	201.6	186.2	15.37	13.115		
2,700.0	2,673.8	2,709.9	2,639.3	7.5	10.6	-75.80	68.9	418.8	213.5	197.6	15.96	13.376		
2,800.0	2,772.3	2,808.9	2,734.2	7.9	11.2	-74.06	69.2	447.3	225.7	209.2	16.55	13.636		
2,900.0	2,870.7	2,908.0	2,829.0	8.2	11.7	-72.49	69.6	475.7	238.1	220.9	17.13	13.894		
3,000.0	2,969.2	3,007.0	2,923.9	8.6	12.2	-71.08	70.0	504.1	250.6	232.9	17.71	14.148		
3,100.0	3,067.6	3,106.0	3,018.8	8.9	12.8	-69.80	70.3	532.5	263.3	245.0	18.29	14.395		
3,200.0	3,166.0	3,205.1	3,113.6	9.3	13.3	-68.65	70.7	561.0	276.0	257.2	18.86	14.636		
3,300.0	3,264.5	3,304.1	3,208.5	9.6	13.8	-67.59	71.1	589.4	288.9	269.5	19.43	14.869		
3,400.0	3,362.9	3,403.1	3,303.4	10.0	14.4	-66.62	71.4	617.8	301.9	281.9	20.00	15.094		
3,500.0	3,461.3	3,502.2	3,398.2	10.3	14.9	-65.74	71.8	646.3	314.9	294.3	20.57	15.312		
3,600.0	3,559.8	3,601.2	3,493.1	10.7	15.5	-64.92	72.2	674.7	328.0	306.9	21.13	15.521		
3,700.0	3,658.2	3,700.2	3,587.9	11.1	16.0	-64.17	72.5	703.1	341.2	319.5	21.70	15.724		
3,800.0	3,756.7	3,799.3	3,682.8	11.4	16.5	-63.47	72.9	731.6	354.4	332.1	22.26	15.918		
3,900.0	3,855.1	3,898.3	3,777.7	11.8	17.1	-62.82	73.3	760.0	367.7	344.9	22.83	16.105		
4,000.0	3,953.5	3,997.3	3,872.5	12.1	17.6	-62.22	73.6	788.4	381.0	357.6	23.39	16.286		
4,100.0	4,052.0	4,096.4	3,967.4	12.5	18.2	-61.66	74.0	816.9	394.4	370.4	23.96	16.459		
4,200.0	4,150.4	4,195.4	4,062.3	12.8	18.7	-61.14	74.4	845.3	407.7	383.2	24.52	16.626		
4,300.0	4,248.8	4,294.4	4,157.1	13.2	19.3	-60.64	74.7	873.7	421.2	396.1	25.09	16.787		
4,400.0	4,347.3	4,393.5	4,252.0	13.5	19.8	-60.18	75.1	902.2	434.6	409.0	25.65	16.942		
4,500.0	4,445.7	4,492.5	4,346.8	13.9	20.3	-59.75	75.4	930.6	448.1	421.9	26.22	17.092		
4,600.0	4,544.2	4,591.5	4,441.7	14.3	20.9	-59.34	75.8	959.0	461.6	434.8	26.78	17.235		
4,700.0	4,642.6	4,690.6	4,536.6	14.6	21.4	-58.96	76.2	987.4	475.1	447.8	27.35	17.374		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
4,800.0	4,741.0	4,789.6	4,631.4	15.0	22.0	-58.59	76.5	1,015.9	488.6	460.7	27.91	17.508		
4,900.0	4,839.5	4,888.6	4,726.3	15.3	22.5	-58.25	76.9	1,044.3	502.2	473.7	28.47	17.637		
5,000.0	4,937.9	4,987.7	4,821.2	15.7	23.1	-57.92	77.3	1,072.7	515.8	486.7	29.04	17.761		
5,100.0	5,036.3	5,086.7	4,916.0	16.0	23.6	-57.62	77.6	1,101.2	529.4	499.8	29.60	17.882		
5,200.0	5,134.8	5,185.7	5,010.9	16.4	24.1	-57.32	78.0	1,129.6	543.0	512.8	30.17	17.998		
5,300.0	5,233.2	5,284.8	5,105.8	16.7	24.7	-57.04	78.4	1,158.0	556.6	525.8	30.73	18.110		
5,400.0	5,331.7	5,383.8	5,200.6	17.1	25.2	-56.78	78.7	1,186.5	570.2	538.9	31.30	18.219		
5,500.0	5,430.1	5,482.8	5,295.5	17.5	25.8	-56.52	79.1	1,214.9	583.9	552.0	31.86	18.324		
5,600.0	5,528.5	5,581.9	5,390.3	17.8	26.3	-56.28	79.5	1,243.3	597.5	565.1	32.43	18.426		
5,700.0	5,627.0	5,680.9	5,485.2	18.2	26.9	-56.05	79.8	1,271.8	611.2	578.2	32.99	18.524		
5,800.0	5,725.4	5,779.9	5,580.1	18.5	27.4	-55.83	80.2	1,300.2	624.8	591.3	33.56	18.620		
5,900.0	5,823.8	5,879.0	5,674.9	18.9	27.9	-55.62	80.6	1,328.6	638.5	604.4	34.12	18.712		
6,000.0	5,922.3	5,978.0	5,769.8	19.2	28.5	-55.41	80.9	1,357.1	652.2	617.5	34.69	18.802		
6,100.0	6,020.7	6,077.0	5,864.7	19.6	29.0	-55.22	81.3	1,385.5	665.9	630.7	35.25	18.889		
6,200.0	6,119.2	6,176.1	5,959.5	20.0	29.6	-55.03	81.7	1,413.9	679.6	643.8	35.82	18.973		
6,300.0	6,217.6	6,275.1	6,054.4	20.3	30.1	-54.85	82.0	1,442.3	693.3	656.9	36.39	19.055		
6,400.0	6,316.0	6,374.1	6,149.2	20.7	30.7	-54.68	82.4	1,470.8	707.0	670.1	36.95	19.134		
6,500.0	6,414.5	6,473.2	6,244.1	21.0	31.2	-54.52	82.8	1,499.2	720.8	683.2	37.52	19.211		
6,600.0	6,512.9	6,572.2	6,339.0	21.4	31.7	-54.36	83.1	1,527.6	734.5	696.4	38.08	19.286		
6,700.0	6,611.3	6,671.2	6,433.8	21.7	32.3	-54.20	83.5	1,556.1	748.2	709.6	38.65	19.359		
6,800.0	6,709.8	6,770.2	6,528.7	22.1	32.8	-54.06	83.9	1,584.5	762.0	722.7	39.22	19.430		
6,843.8	6,752.9	6,813.6	6,570.2	22.3	33.1	-53.99	84.0	1,596.9	768.0	728.5	39.46	19.461		
6,850.0	6,759.0	6,819.8	6,576.1	22.3	33.1	-51.36	84.0	1,598.7	768.8	729.3	39.50	19.465		
6,900.0	6,808.3	6,869.4	6,623.6	22.4	33.4	-28.34	84.2	1,613.0	774.4	734.8	39.67	19.523		
6,950.0	6,857.5	6,918.9	6,671.1	22.6	33.6	-6.99	84.4	1,627.2	778.1	738.4	39.69	19.605		
7,000.0	6,906.4	6,968.2	6,718.3	22.7	33.9	8.75	84.6	1,641.3	779.8	740.2	39.55	19.715		
7,050.0	6,954.8	7,016.9	6,765.0	22.8	34.2	19.67	84.8	1,655.3	779.7	740.4	39.26	19.858		
7,100.0	7,002.3	7,064.8	6,810.9	22.9	34.4	27.56	84.9	1,669.1	777.8	739.0	38.80	20.044		
7,150.0	7,048.9	7,111.8	6,855.9	23.0	34.7	33.67	85.1	1,682.6	774.3	736.2	38.18	20.283		
7,200.0	7,094.2	7,157.5	6,899.6	23.1	35.0	38.76	85.3	1,695.7	769.5	732.1	37.38	20.588		
7,250.0	7,138.1	7,201.8	6,942.0	23.1	35.2	43.23	85.4	1,708.4	763.5	727.1	36.41	20.973		
7,300.0	7,180.2	7,244.4	6,982.8	23.2	35.4	47.33	85.6	1,720.6	756.7	721.5	35.27	21.454		
7,350.0	7,220.5	7,286.5	7,023.3	23.3	35.7	51.26	85.8	1,732.7	749.4	715.4	34.00	22.041		
7,400.0	7,258.7	7,349.0	7,083.0	23.3	36.0	56.31	83.0	1,750.6	741.1	708.5	32.63	22.712		
7,450.0	7,294.7	7,398.4	7,130.0	23.4	36.3	60.95	76.9	1,764.6	732.4	701.3	31.05	23.586		
7,500.0	7,328.2	7,436.3	7,165.8	23.5	36.5	64.94	70.0	1,775.1	724.3	694.8	29.47	24.581		
7,550.0	7,359.1	7,464.6	7,192.2	23.5	36.6	68.17	63.5	1,782.9	717.8	689.7	28.06	25.579		
7,600.0	7,387.2	7,484.9	7,211.0	23.6	36.7	70.60	58.2	1,788.5	713.4	686.4	27.03	26.395		
7,650.0	7,412.5	7,498.7	7,223.7	23.8	36.8	72.26	54.3	1,792.2	711.7	685.2	26.53	26.826		
7,654.7	7,414.7	7,499.7	7,224.6	23.8	36.8	72.38	54.0	1,792.5	711.7	685.2	26.52	26.838		
7,700.0	7,434.7	7,507.2	7,231.4	23.9	36.8	73.21	51.8	1,794.5	712.9	686.2	26.68	26.722		
7,750.0	7,453.9	7,511.4	7,235.2	24.1	36.8	73.50	50.5	1,795.6	717.2	689.7	27.49	26.089		
7,800.0	7,469.8	7,511.9	7,235.8	24.2	36.8	73.20	50.3	1,795.8	724.5	695.6	28.89	25.074		
7,850.0	7,482.4	7,509.6	7,233.6	24.4	36.8	72.36	51.1	1,795.1	734.7	704.0	30.76	23.884		
7,900.0	7,491.6	7,500.0	7,224.8	24.7	36.8	70.66	53.9	1,792.6	747.7	714.9	32.87	22.745		
7,950.0	7,497.5	7,500.0	7,224.8	24.9	36.8	69.46	53.9	1,792.6	763.2	727.8	35.34	21.593		
8,000.0	7,499.9	7,489.3	7,215.0	25.2	36.7	67.20	57.0	1,789.7	780.8	743.1	37.72	20.699		
8,010.3	7,500.0	7,487.3	7,213.2	25.2	36.7	66.73	57.6	1,789.1	784.7	746.4	38.22	20.530		
8,100.0	7,500.0	7,471.3	7,198.3	25.8	36.6	65.52	61.9	1,784.8	822.7	780.2	42.45	19.378		
8,200.0	7,500.0	7,450.0	7,178.6	26.5	36.5	63.92	67.0	1,778.9	873.5	826.9	46.67	18.719		
8,300.0	7,500.0	7,450.0	7,178.6	27.3	36.5	63.92	67.0	1,778.9	932.1	881.4	50.62	18.413		
8,400.0	7,500.0	7,432.2	7,161.8	28.2	36.4	62.57	70.8	1,774.0	996.9	943.2	53.65	18.581		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4L-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.74	0.4	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.74	0.4	-80.0	80.0	79.7	0.30	269.694		
200.0	200.0	200.0	200.0	0.3	0.3	-89.74	0.4	-80.0	80.0	79.4	0.65	123.914		
300.0	300.0	300.0	300.0	0.5	0.5	-89.74	0.4	-80.0	80.0	79.0	0.99	80.435		
350.0	350.0	350.0	350.0	0.6	0.6	-89.74	0.4	-80.0	80.0	78.9	1.17	68.430 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.69	0.4	-80.0	80.2	78.9	1.34	59.696		
500.0	500.0	500.0	500.0	0.8	0.8	161.09	0.4	-80.0	81.9	80.2	1.69	48.357		
600.0	599.9	599.9	599.9	1.0	1.0	161.84	0.4	-80.0	85.2	83.1	2.04	41.702		
700.0	699.8	699.8	699.8	1.2	1.2	162.86	0.4	-80.0	90.2	87.8	2.39	37.686		
800.0	799.5	798.9	798.9	1.4	1.4	163.97	0.2	-80.2	97.0	94.3	2.74	35.382		
900.0	899.2	897.2	897.2	1.6	1.5	164.60	-0.8	-81.5	106.7	103.6	3.09	34.514 SF		
1,000.0	998.6	995.0	994.9	1.9	1.7	164.78	-2.9	-84.1	119.2	115.8	3.44	34.657		
1,100.0	1,097.9	1,092.2	1,092.0	2.1	1.9	164.60	-6.1	-88.0	134.7	130.9	3.79	35.511		
1,200.0	1,196.9	1,188.7	1,188.3	2.4	2.1	164.20	-10.2	-93.1	153.0	148.9	4.15	36.876		
1,300.0	1,295.7	1,284.5	1,283.7	2.7	2.3	163.65	-15.3	-99.4	174.2	169.7	4.51	38.608		
1,364.2	1,358.9	1,346.3	1,345.3	2.9	2.4	163.28	-19.0	-104.0	189.2	184.4	4.75	39.830		
1,400.0	1,394.2	1,381.1	1,379.9	3.0	2.5	163.13	-21.1	-106.7	197.8	192.9	4.88	40.491		
1,500.0	1,492.6	1,478.2	1,476.5	3.4	2.7	162.77	-27.0	-114.0	221.7	216.4	5.26	42.136		
1,600.0	1,591.0	1,575.3	1,573.2	3.7	2.9	162.49	-32.9	-121.3	245.7	240.0	5.64	43.539		
1,700.0	1,689.5	1,672.4	1,669.8	4.0	3.1	162.25	-38.8	-128.6	269.6	263.6	6.03	44.747		
1,800.0	1,787.9	1,769.5	1,766.4	4.4	3.3	162.06	-44.8	-136.0	293.6	287.2	6.41	45.798		
1,900.0	1,886.3	1,866.5	1,863.0	4.7	3.6	161.89	-50.7	-143.3	317.5	310.7	6.80	46.718		
2,000.0	1,984.8	1,963.6	1,959.7	5.1	3.8	161.75	-56.6	-150.6	341.5	334.3	7.18	47.530		
2,100.0	2,083.2	2,060.7	2,056.3	5.4	4.0	161.62	-62.5	-157.9	365.5	357.9	7.57	48.252		
2,200.0	2,181.7	2,157.8	2,152.9	5.8	4.2	161.51	-68.4	-165.2	389.4	381.5	7.96	48.897		
2,300.0	2,280.1	2,254.9	2,249.5	6.1	4.5	161.42	-74.3	-172.6	413.4	405.0	8.35	49.478		
2,400.0	2,378.5	2,352.0	2,346.2	6.5	4.7	161.33	-80.2	-179.9	437.4	428.6	8.75	50.002		
2,500.0	2,477.0	2,449.0	2,442.8	6.8	4.9	161.25	-86.1	-187.2	461.3	452.2	9.14	50.477		
2,600.0	2,575.4	2,546.1	2,539.4	7.2	5.2	161.18	-92.0	-194.5	485.3	475.8	9.53	50.911		
2,700.0	2,673.8	2,643.2	2,636.0	7.5	5.4	161.12	-97.9	-201.8	509.3	499.3	9.93	51.307		
2,800.0	2,772.3	2,740.3	2,732.7	7.9	5.6	161.06	-103.8	-209.2	533.2	522.9	10.32	51.671		
2,900.0	2,870.7	2,837.4	2,829.3	8.2	5.8	161.01	-109.7	-216.5	557.2	546.5	10.71	52.007		
3,000.0	2,969.2	2,934.5	2,925.9	8.6	6.1	160.96	-115.6	-223.8	581.2	570.1	11.11	52.317		
3,100.0	3,067.6	3,031.5	3,022.6	8.9	6.3	160.92	-121.5	-231.1	605.1	593.6	11.50	52.604		
3,200.0	3,166.0	3,128.6	3,119.2	9.3	6.5	160.88	-127.4	-238.5	629.1	617.2	11.90	52.871		
3,300.0	3,264.5	3,225.7	3,215.8	9.6	6.8	160.84	-133.3	-245.8	653.1	640.8	12.29	53.120		
3,400.0	3,362.9	3,322.8	3,312.4	10.0	7.0	160.80	-139.2	-253.1	677.1	664.4	12.69	53.353		
3,500.0	3,461.3	3,419.9	3,409.1	10.3	7.2	160.77	-145.1	-260.4	701.0	688.0	13.09	53.570		
3,600.0	3,559.8	3,517.0	3,505.7	10.7	7.5	160.74	-151.0	-267.7	725.0	711.5	13.48	53.774		
3,700.0	3,658.2	3,614.0	3,602.3	11.1	7.7	160.71	-156.9	-275.1	749.0	735.1	13.88	53.965		
3,800.0	3,756.7	3,711.1	3,698.9	11.4	7.9	160.68	-162.9	-282.4	773.0	758.7	14.28	54.146		
3,900.0	3,855.1	3,808.2	3,795.6	11.8	8.2	160.66	-168.8	-289.7	796.9	782.3	14.67	54.316		
4,000.0	3,953.5	3,905.3	3,892.2	12.1	8.4	160.64	-174.7	-297.0	820.9	805.8	15.07	54.476		
4,100.0	4,052.0	4,002.4	3,988.8	12.5	8.6	160.61	-180.6	-304.4	844.9	829.4	15.47	54.628		
4,200.0	4,150.4	4,099.5	4,085.4	12.8	8.9	160.59	-186.5	-311.7	868.9	853.0	15.86	54.772		
4,300.0	4,248.8	4,196.5	4,182.1	13.2	9.1	160.57	-192.4	-319.0	892.8	876.6	16.26	54.909		
4,400.0	4,347.3	4,293.6	4,278.7	13.5	9.3	160.55	-198.3	-326.3	916.8	900.1	16.66	55.038		
4,500.0	4,445.7	4,390.7	4,375.3	13.9	9.6	160.53	-204.2	-333.6	940.8	923.7	17.05	55.162		
4,600.0	4,544.2	4,487.8	4,472.0	14.3	9.8	160.52	-210.1	-341.0	964.8	947.3	17.45	55.279		
4,700.0	4,642.6	4,584.9	4,568.6	14.6	10.0	160.50	-216.0	-348.3	988.7	970.9	17.85	55.391		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-89.70	0.4	-70.2	70.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.70	0.4	-70.2	70.2	69.9	0.30	236.690		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.4	-70.2	70.2	69.6	0.65	108.750		
300.0	300.0	300.0	300.0	0.5	0.5	-89.70	0.4	-70.2	70.2	69.2	0.99	70.592		
350.0	350.0	350.0	350.0	0.6	0.6	-89.70	0.4	-70.2	70.2	69.1	1.17	60.056 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.74	0.4	-70.2	70.4	69.1	1.34	52.409		
500.0	500.0	500.0	500.0	0.8	0.8	161.19	0.4	-70.2	72.1	70.4	1.69	42.574		
600.0	599.9	599.9	599.9	1.0	1.0	162.03	0.4	-70.2	75.4	73.4	2.04	36.910		
700.0	699.8	699.8	699.8	1.2	1.2	163.17	0.4	-70.2	80.4	78.0	2.39	33.599		
800.0	799.5	799.5	799.5	1.4	1.4	164.48	0.4	-70.2	87.1	84.3	2.74	31.751		
900.0	899.2	898.2	898.2	1.6	1.5	165.44	-0.3	-70.8	96.0	92.9	3.09	31.063 SF		
1,000.0	998.6	996.4	996.4	1.9	1.7	165.72	-2.1	-72.5	107.7	104.3	3.44	31.298		
1,100.0	1,097.9	1,094.2	1,094.1	2.1	1.9	165.50	-5.2	-75.3	122.1	118.3	3.79	32.177		
1,200.0	1,196.9	1,191.4	1,191.1	2.4	2.1	164.94	-9.5	-79.3	139.2	135.0	4.15	33.514		
1,300.0	1,295.7	1,288.0	1,287.4	2.7	2.3	164.19	-14.9	-84.3	158.9	154.4	4.52	35.181		
1,364.2	1,358.9	1,350.6	1,349.8	2.9	2.4	163.75	-18.7	-87.8	172.8	168.0	4.76	36.309		
1,400.0	1,394.2	1,385.6	1,384.7	3.0	2.5	163.58	-20.9	-89.8	180.7	175.8	4.89	36.927		
1,500.0	1,492.6	1,483.1	1,481.8	3.4	2.7	163.16	-26.9	-95.3	202.7	197.5	5.27	38.466		
1,600.0	1,591.0	1,580.6	1,579.0	3.7	2.9	162.82	-32.8	-100.8	224.8	219.2	5.65	39.778		
1,700.0	1,689.5	1,678.1	1,676.2	4.0	3.1	162.54	-38.8	-106.3	246.9	240.9	6.04	40.908		
1,800.0	1,787.9	1,775.7	1,773.4	4.4	3.3	162.31	-44.8	-111.8	269.0	262.6	6.42	41.889		
1,900.0	1,886.3	1,873.2	1,870.6	4.7	3.5	162.12	-50.7	-117.3	291.1	284.3	6.81	42.749		
2,000.0	1,984.8	1,970.7	1,967.8	5.1	3.7	161.95	-56.7	-122.8	313.2	306.0	7.20	43.507		
2,100.0	2,083.2	2,068.2	2,064.9	5.4	3.9	161.80	-62.7	-128.3	335.4	327.8	7.59	44.181		
2,200.0	2,181.7	2,165.8	2,162.1	5.8	4.1	161.67	-68.7	-133.8	357.5	349.5	7.98	44.783		
2,300.0	2,280.1	2,263.3	2,259.3	6.1	4.3	161.56	-74.6	-139.3	379.6	371.2	8.37	45.324		
2,400.0	2,378.5	2,360.8	2,356.5	6.5	4.6	161.46	-80.6	-144.8	401.7	392.9	8.77	45.813		
2,500.0	2,477.0	2,458.3	2,453.7	6.8	4.8	161.37	-86.6	-150.3	423.8	414.6	9.16	46.256		
2,600.0	2,575.4	2,555.8	2,550.9	7.2	5.0	161.29	-92.6	-155.8	445.9	436.4	9.56	46.660		
2,700.0	2,673.8	2,653.4	2,648.0	7.5	5.2	161.22	-98.5	-161.3	468.0	458.1	9.95	47.029		
2,800.0	2,772.3	2,750.9	2,745.2	7.9	5.4	161.15	-104.5	-166.8	490.1	479.8	10.35	47.368		
2,900.0	2,870.7	2,848.4	2,842.4	8.2	5.6	161.09	-110.5	-172.3	512.3	501.5	10.74	47.681		
3,000.0	2,969.2	2,945.9	2,939.6	8.6	5.9	161.03	-116.5	-177.8	534.4	523.2	11.14	47.969		
3,100.0	3,067.6	3,043.5	3,036.8	8.9	6.1	160.98	-122.4	-183.3	556.5	545.0	11.54	48.237		
3,200.0	3,166.0	3,141.0	3,134.0	9.3	6.3	160.93	-128.4	-188.8	578.6	566.7	11.93	48.485		
3,300.0	3,264.5	3,238.5	3,231.1	9.6	6.5	160.89	-134.4	-194.3	600.7	588.4	12.33	48.716		
3,400.0	3,362.9	3,336.0	3,328.3	10.0	6.7	160.85	-140.3	-199.8	622.9	610.1	12.73	48.932		
3,500.0	3,461.3	3,433.5	3,425.5	10.3	6.9	160.81	-146.3	-205.3	645.0	631.9	13.13	49.134		
3,600.0	3,559.8	3,531.1	3,522.7	10.7	7.2	160.77	-152.3	-210.8	667.1	653.6	13.52	49.323		
3,700.0	3,658.2	3,628.6	3,619.9	11.1	7.4	160.74	-158.3	-216.3	689.2	675.3	13.92	49.501		
3,800.0	3,756.7	3,726.1	3,717.1	11.4	7.6	160.71	-164.2	-221.8	711.3	697.0	14.32	49.669		
3,900.0	3,855.1	3,823.6	3,814.2	11.8	7.8	160.68	-170.2	-227.3	733.5	718.7	14.72	49.827		
4,000.0	3,953.5	3,921.2	3,911.4	12.1	8.0	160.65	-176.2	-232.8	755.6	740.5	15.12	49.976		
4,100.0	4,052.0	4,018.7	4,008.6	12.5	8.3	160.63	-182.2	-238.3	777.7	762.2	15.52	50.117		
4,200.0	4,150.4	4,116.2	4,105.8	12.8	8.5	160.60	-188.1	-243.8	799.8	783.9	15.92	50.250		
4,300.0	4,248.8	4,213.7	4,203.0	13.2	8.7	160.58	-194.1	-249.3	821.9	805.6	16.32	50.377		
4,400.0	4,347.3	4,311.2	4,300.2	13.5	8.9	160.56	-200.1	-254.8	844.1	827.3	16.72	50.497		
4,500.0	4,445.7	4,408.8	4,397.3	13.9	9.1	160.53	-206.0	-260.3	866.2	849.1	17.11	50.612		
4,600.0	4,544.2	4,506.3	4,494.5	14.3	9.4	160.51	-212.0	-265.8	888.3	870.8	17.51	50.720		
4,700.0	4,642.6	4,603.8	4,591.7	14.6	9.6	160.50	-218.0	-271.3	910.4	892.5	17.91	50.824		
4,800.0	4,741.0	4,701.3	4,688.9	15.0	9.8	160.48	-224.0	-276.8	932.5	914.2	18.31	50.923		
4,900.0	4,839.5	4,798.9	4,786.1	15.3	10.0	160.46	-229.9	-282.4	954.7	936.0	18.71	51.018		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - 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	
5,000.0	4,937.9	4,896.4	4,883.3	15.7	10.2	160.44	-235.9	-287.9	976.8	957.7	19.11	51.108	
5,100.0	5,036.3	4,993.9	4,980.4	16.0	10.5	160.43	-241.9	-293.4	998.9	979.4	19.51	51.195	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-90.03	0.0	-60.2	60.2					
100.0	100.0	100.0	100.0	0.1	0.1	-90.03	0.0	-60.2	60.2	59.9	0.30	202.740		
200.0	200.0	200.0	200.0	0.3	0.3	-90.03	0.0	-60.2	60.2	59.5	0.65	93.151		
300.0	300.0	300.0	300.0	0.5	0.5	-90.03	0.0	-60.2	60.2	59.2	0.99	60.466		
350.0	350.0	350.0	350.0	0.6	0.6	-90.03	0.0	-60.2	60.2	59.0	1.17	51.442 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.42	0.0	-60.2	60.4	59.0	1.34	44.914		
500.0	500.0	500.0	500.0	0.8	0.8	160.96	0.0	-60.2	62.0	60.3	1.69	36.623		
600.0	599.9	599.9	599.9	1.0	1.0	161.94	0.0	-60.2	65.3	63.3	2.04	31.975		
700.0	699.8	699.7	699.7	1.2	1.2	163.08	-0.2	-60.2	70.4	68.0	2.39	29.406		
800.0	799.5	799.2	799.1	1.4	1.4	163.30	-1.9	-60.6	77.4	74.6	2.74	28.201		
900.0	899.2	898.5	898.4	1.6	1.5	162.68	-5.3	-61.5	86.4	83.3	3.10	27.877 SF		
1,000.0	998.6	997.5	997.3	1.9	1.7	161.50	-10.2	-62.7	97.5	94.0	3.46	28.144		
1,100.0	1,097.9	1,096.7	1,096.3	2.1	1.9	160.49	-15.9	-64.2	110.4	106.5	3.83	28.784		
1,200.0	1,196.9	1,195.6	1,195.1	2.4	2.1	159.96	-21.5	-65.6	124.9	120.7	4.21	29.666		
1,300.0	1,295.7	1,294.3	1,293.6	2.7	2.3	159.77	-27.1	-67.0	141.1	136.5	4.59	30.729		
1,364.2	1,358.9	1,357.5	1,356.6	2.9	2.4	159.79	-30.7	-68.0	152.3	147.5	4.84	31.487		
1,400.0	1,394.2	1,392.7	1,391.8	3.0	2.5	159.84	-32.7	-68.5	158.8	153.8	4.97	31.915		
1,500.0	1,492.6	1,491.1	1,490.0	3.4	2.7	159.96	-38.3	-69.9	176.8	171.4	5.36	32.982		
1,600.0	1,591.0	1,589.4	1,588.2	3.7	2.9	160.06	-43.9	-71.3	194.8	189.0	5.75	33.897		
1,700.0	1,689.5	1,687.8	1,686.4	4.0	3.1	160.15	-49.5	-72.7	212.8	206.7	6.13	34.688		
1,800.0	1,787.9	1,786.2	1,784.6	4.4	3.3	160.22	-55.1	-74.2	230.8	224.3	6.52	35.379		
1,900.0	1,886.3	1,884.5	1,882.8	4.7	3.5	160.28	-60.7	-75.6	248.8	241.9	6.91	35.987		
2,000.0	1,984.8	1,982.9	1,981.0	5.1	3.7	160.33	-66.3	-77.0	266.8	259.5	7.31	36.527		
2,100.0	2,083.2	2,081.3	2,079.2	5.4	3.8	160.38	-71.9	-78.4	284.8	277.1	7.70	37.008		
2,200.0	2,181.7	2,179.6	2,177.4	5.8	4.0	160.42	-77.5	-79.9	302.9	294.8	8.09	37.440		
2,300.0	2,280.1	2,278.0	2,275.6	6.1	4.2	160.45	-83.1	-81.3	320.9	312.4	8.48	37.830		
2,400.0	2,378.5	2,376.4	2,373.8	6.5	4.4	160.48	-88.7	-82.7	338.9	330.0	8.88	38.184		
2,500.0	2,477.0	2,474.7	2,472.0	6.8	4.6	160.51	-94.3	-84.1	356.9	347.6	9.27	38.506		
2,600.0	2,575.4	2,573.1	2,570.1	7.2	4.8	160.54	-99.9	-85.6	374.9	365.3	9.66	38.800		
2,700.0	2,673.8	2,671.4	2,668.3	7.5	5.0	160.56	-105.5	-87.0	392.9	382.9	10.06	39.071		
2,800.0	2,772.3	2,769.8	2,766.5	7.9	5.2	160.58	-111.1	-88.4	410.9	400.5	10.45	39.320		
2,900.0	2,870.7	2,868.2	2,864.7	8.2	5.4	160.60	-116.7	-89.8	429.0	418.1	10.85	39.550		
3,000.0	2,969.2	2,966.5	2,962.9	8.6	5.6	160.62	-122.4	-91.3	447.0	435.7	11.24	39.763		
3,100.0	3,067.6	3,064.9	3,061.1	8.9	5.8	160.64	-128.0	-92.7	465.0	453.4	11.64	39.961		
3,200.0	3,166.0	3,163.3	3,159.3	9.3	6.0	160.65	-133.6	-94.1	483.0	471.0	12.03	40.146		
3,300.0	3,264.5	3,261.6	3,257.5	9.6	6.2	160.67	-139.2	-95.5	501.0	488.6	12.43	40.318		
3,400.0	3,362.9	3,360.0	3,355.7	10.0	6.4	160.68	-144.8	-97.0	519.0	506.2	12.82	40.480		
3,500.0	3,461.3	3,458.4	3,453.9	10.3	6.6	160.69	-150.4	-98.4	537.0	523.8	13.22	40.631		
3,600.0	3,559.8	3,556.7	3,552.1	10.7	6.8	160.70	-156.0	-99.8	555.1	541.4	13.61	40.773		
3,700.0	3,658.2	3,655.1	3,650.3	11.1	7.0	160.72	-161.6	-101.2	573.1	559.1	14.01	40.907		
3,800.0	3,756.7	3,753.4	3,748.5	11.4	7.2	160.73	-167.2	-102.7	591.1	576.7	14.41	41.033		
3,900.0	3,855.1	3,851.8	3,846.7	11.8	7.4	160.74	-172.8	-104.1	609.1	594.3	14.80	41.152		
4,000.0	3,953.5	3,950.2	3,944.9	12.1	7.6	160.74	-178.4	-105.5	627.1	611.9	15.20	41.265		
4,100.0	4,052.0	4,048.5	4,043.1	12.5	7.8	160.75	-184.0	-106.9	645.1	629.5	15.59	41.372		
4,200.0	4,150.4	4,146.9	4,141.3	12.8	8.0	160.76	-189.6	-108.4	663.1	647.2	15.99	41.473		
4,300.0	4,248.8	4,245.3	4,239.4	13.2	8.2	160.77	-195.2	-109.8	681.2	664.8	16.39	41.570		
4,400.0	4,347.3	4,343.6	4,337.6	13.5	8.4	160.78	-200.8	-111.2	699.2	682.4	16.78	41.661		
4,500.0	4,445.7	4,442.0	4,435.8	13.9	8.6	160.78	-206.4	-112.6	717.2	700.0	17.18	41.749		
4,600.0	4,544.2	4,540.4	4,534.0	14.3	8.8	160.79	-212.0	-114.1	735.2	717.6	17.58	41.832		
4,700.0	4,642.6	4,638.7	4,632.2	14.6	9.0	160.80	-217.6	-115.5	753.2	735.2	17.97	41.911		
4,800.0	4,741.0	4,737.1	4,730.4	15.0	9.2	160.80	-223.2	-116.9	771.2	752.9	18.37	41.987		
4,900.0	4,839.5	4,835.5	4,828.6	15.3	9.4	160.81	-228.8	-118.3	789.3	770.5	18.76	42.060		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1															
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			
5,000.0	4,937.9	4,933.8	4,926.8	15.7	9.6	160.81	-234.4	-119.8	807.3	788.1	19.16	42.130			
5,100.0	5,036.3	5,032.2	5,025.0	16.0	9.8	160.82	-240.0	-121.2	825.3	805.7	19.56	42.196			
5,200.0	5,134.8	5,130.5	5,123.2	16.4	10.0	160.82	-245.6	-122.6	843.3	823.3	19.95	42.260			
5,300.0	5,233.2	5,228.9	5,221.4	16.7	10.2	160.83	-251.2	-124.0	861.3	841.0	20.35	42.321			
5,400.0	5,331.7	5,327.3	5,319.6	17.1	10.4	160.83	-256.8	-125.4	879.3	858.6	20.75	42.380			
5,500.0	5,430.1	5,425.6	5,417.8	17.5	10.6	160.84	-262.4	-126.9	897.3	876.2	21.15	42.437			
5,600.0	5,528.5	5,524.0	5,516.0	17.8	10.8	160.84	-268.0	-128.3	915.4	893.8	21.54	42.492			
5,700.0	5,627.0	5,622.4	5,614.2	18.2	11.0	160.84	-273.6	-129.7	933.4	911.4	21.94	42.544			
5,800.0	5,725.4	5,720.7	5,712.4	18.5	11.2	160.85	-279.2	-131.1	951.4	929.0	22.34	42.595			
5,900.0	5,823.8	5,819.1	5,810.5	18.9	11.4	160.85	-284.8	-132.6	969.4	946.7	22.73	42.643			
6,000.0	5,922.3	5,917.5	5,908.7	19.2	11.6	160.86	-290.4	-134.0	987.4	964.3	23.13	42.691			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4O-32H-O268 - OH - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-90.09	-0.1	-50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	-90.09	-0.1	-50.1	50.1	49.8	0.30	168.793		
200.0	200.0	200.0	200.0	0.3	0.3	-90.09	-0.1	-50.1	50.1	49.4	0.65	77.554		
300.0	300.0	300.0	300.0	0.5	0.5	-90.09	-0.1	-50.1	50.1	49.1	0.99	50.342		
350.0	350.0	350.0	350.0	0.6	0.6	-90.09	-0.1	-50.1	50.1	48.9	1.17	42.828 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.37	-0.1	-50.1	50.3	48.9	1.34	37.419		
500.0	500.0	500.0	500.0	0.8	0.8	161.01	-0.1	-50.1	51.9	50.2	1.69	30.674		
600.0	599.9	599.9	599.9	1.0	1.0	162.18	-0.1	-50.1	55.2	53.2	2.04	27.046		
700.0	699.8	700.2	700.2	1.2	1.2	162.94	-0.9	-49.7	59.9	57.5	2.39	25.010		
800.0	799.5	800.6	800.5	1.4	1.4	162.64	-3.3	-48.7	65.4	62.7	2.75	23.803		
900.0	899.2	900.8	900.7	1.6	1.6	161.53	-7.4	-47.0	71.9	68.8	3.11	23.123		
1,000.0	998.6	1,000.9	1,000.5	1.9	1.7	159.94	-12.9	-44.7	79.4	75.9	3.48	22.818 SF		
1,100.0	1,097.9	1,100.4	1,099.9	2.1	1.9	158.82	-18.7	-42.2	88.5	84.6	3.86	22.932		
1,200.0	1,196.9	1,199.9	1,199.1	2.4	2.1	158.28	-24.5	-39.8	99.1	94.9	4.24	23.381		
1,300.0	1,295.7	1,299.1	1,298.2	2.7	2.3	158.16	-30.3	-37.3	111.5	106.8	4.63	24.082		
1,364.2	1,358.9	1,362.7	1,361.6	2.9	2.5	158.26	-34.0	-35.8	120.2	115.3	4.88	24.639		
1,400.0	1,394.2	1,398.1	1,397.0	3.0	2.5	158.36	-36.1	-34.9	125.3	120.2	5.02	24.964		
1,500.0	1,492.6	1,497.1	1,495.8	3.4	2.7	158.60	-41.9	-32.5	139.4	134.0	5.41	25.774		
1,600.0	1,591.0	1,596.1	1,594.6	3.7	2.9	158.79	-47.7	-30.0	153.5	147.7	5.80	26.468		
1,700.0	1,689.5	1,695.1	1,693.4	4.0	3.1	158.95	-53.5	-27.6	167.7	161.5	6.19	27.069		
1,800.0	1,787.9	1,794.1	1,792.2	4.4	3.3	159.08	-59.3	-25.1	181.8	175.2	6.59	27.595		
1,900.0	1,886.3	1,893.1	1,891.0	4.7	3.5	159.20	-65.0	-22.7	196.0	189.0	6.99	28.057		
2,000.0	1,984.8	1,992.1	1,989.8	5.1	3.7	159.30	-70.8	-20.3	210.1	202.8	7.38	28.468		
2,100.0	2,083.2	2,091.1	2,088.6	5.4	3.9	159.39	-76.6	-17.8	224.3	216.5	7.78	28.835		
2,200.0	2,181.7	2,190.1	2,187.4	5.8	4.1	159.47	-82.4	-15.4	238.4	230.3	8.18	29.165		
2,300.0	2,280.1	2,289.1	2,286.2	6.1	4.3	159.54	-88.2	-12.9	252.6	244.0	8.57	29.462		
2,400.0	2,378.5	2,388.1	2,385.0	6.5	4.5	159.60	-94.0	-10.5	266.7	257.8	8.97	29.732		
2,500.0	2,477.0	2,487.1	2,483.7	6.8	4.7	159.65	-99.8	-8.1	280.9	271.5	9.37	29.979		
2,600.0	2,575.4	2,586.1	2,582.5	7.2	4.9	159.70	-105.6	-5.6	295.0	285.3	9.77	30.204		
2,700.0	2,673.8	2,685.0	2,681.3	7.5	5.1	159.75	-111.3	-3.2	309.2	299.0	10.17	30.411		
2,800.0	2,772.3	2,784.0	2,780.1	7.9	5.3	159.79	-117.1	-0.8	323.3	312.8	10.57	30.602		
2,900.0	2,870.7	2,883.0	2,878.9	8.2	5.5	159.83	-122.9	1.7	337.5	326.5	10.96	30.778		
3,000.0	2,969.2	2,982.0	2,977.7	8.6	5.7	159.86	-128.7	4.1	351.6	340.3	11.36	30.942		
3,100.0	3,067.6	3,081.0	3,076.5	8.9	5.9	159.89	-134.5	6.6	365.8	354.0	11.76	31.094		
3,200.0	3,166.0	3,180.0	3,175.3	9.3	6.2	159.92	-140.3	9.0	379.9	367.8	12.16	31.235		
3,300.0	3,264.5	3,279.0	3,274.1	9.6	6.4	159.95	-146.1	11.4	394.1	381.5	12.56	31.368		
3,400.0	3,362.9	3,378.0	3,372.9	10.0	6.6	159.98	-151.9	13.9	408.2	395.3	12.96	31.492		
3,500.0	3,461.3	3,477.0	3,471.7	10.3	6.8	160.00	-157.6	16.3	422.4	409.0	13.36	31.608		
3,600.0	3,559.8	3,576.0	3,570.5	10.7	7.0	160.02	-163.4	18.8	436.5	422.8	13.76	31.717		
3,700.0	3,658.2	3,675.0	3,669.3	11.1	7.2	160.04	-169.2	21.2	450.7	436.5	14.16	31.820		
3,800.0	3,756.7	3,774.0	3,768.1	11.4	7.4	160.06	-175.0	23.6	464.8	450.3	14.56	31.917		
3,900.0	3,855.1	3,873.0	3,866.9	11.8	7.6	160.08	-180.8	26.1	479.0	464.0	14.96	32.009		
4,000.0	3,953.5	3,972.0	3,965.7	12.1	7.8	160.10	-186.6	28.5	493.1	477.8	15.36	32.096		
4,100.0	4,052.0	4,071.0	4,064.5	12.5	8.0	160.12	-192.4	31.0	507.3	491.5	15.77	32.178		
4,200.0	4,150.4	4,170.0	4,163.2	12.8	8.2	160.13	-198.1	33.4	521.4	505.3	16.17	32.256		
4,300.0	4,248.8	4,268.9	4,262.0	13.2	8.4	160.15	-203.9	35.8	535.6	519.0	16.57	32.331		
4,400.0	4,347.3	4,367.9	4,360.8	13.5	8.6	160.16	-209.7	38.3	549.7	532.8	16.97	32.401		
4,500.0	4,445.7	4,466.9	4,459.6	13.9	8.8	160.17	-215.5	40.7	563.9	546.5	17.37	32.469		
4,600.0	4,544.2	4,565.9	4,558.4	14.3	9.0	160.19	-221.3	43.2	578.0	560.3	17.77	32.533		
4,700.0	4,642.6	4,664.9	4,657.2	14.6	9.2	160.20	-227.1	45.6	592.2	574.0	18.17	32.594		
4,800.0	4,741.0	4,763.9	4,756.0	15.0	9.4	160.21	-232.9	48.0	606.4	587.8	18.57	32.653		
4,900.0	4,839.5	4,862.9	4,854.8	15.3	9.6	160.22	-238.7	50.5	620.5	601.5	18.97	32.709		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4O-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,961.9	4,953.6	15.7	9.8	160.23	-244.4	52.9	634.7	615.3	19.37	32.763		
5,100.0	5,036.3	5,060.9	5,052.4	16.0	10.0	160.24	-250.2	55.3	648.8	629.0	19.77	32.814		
5,200.0	5,134.8	5,159.9	5,151.2	16.4	10.2	160.25	-256.0	57.8	663.0	642.8	20.17	32.864		
5,300.0	5,233.2	5,258.9	5,250.0	16.7	10.4	160.26	-261.8	60.2	677.1	656.5	20.57	32.911		
5,400.0	5,331.7	5,357.9	5,348.8	17.1	10.6	160.27	-267.6	62.7	691.3	670.3	20.97	32.956		
5,500.0	5,430.1	5,456.9	5,447.6	17.5	10.8	160.28	-273.4	65.1	705.4	684.0	21.38	33.000		
5,600.0	5,528.5	5,555.9	5,546.4	17.8	11.0	160.29	-279.2	67.5	719.6	697.8	21.78	33.043		
5,700.0	5,627.0	5,654.9	5,645.2	18.2	11.3	160.29	-285.0	70.0	733.7	711.5	22.18	33.083		
5,800.0	5,725.4	5,753.8	5,744.0	18.5	11.5	160.30	-290.7	72.4	747.9	725.3	22.58	33.122		
5,900.0	5,823.8	5,852.8	5,842.7	18.9	11.7	160.31	-296.5	74.9	762.0	739.0	22.98	33.160		
6,000.0	5,922.3	5,951.8	5,941.5	19.2	11.9	160.32	-302.3	77.3	776.2	752.8	23.38	33.196		
6,100.0	6,020.7	6,050.8	6,040.3	19.6	12.1	160.32	-308.1	79.7	790.3	766.5	23.78	33.232		
6,200.0	6,119.2	6,149.8	6,139.1	20.0	12.3	160.33	-313.9	82.2	804.5	780.3	24.18	33.266		
6,300.0	6,217.6	6,248.8	6,237.9	20.3	12.5	160.34	-319.7	84.6	818.6	794.0	24.58	33.299		
6,400.0	6,316.0	6,347.8	6,336.7	20.7	12.7	160.34	-325.5	87.1	832.8	807.8	24.99	33.330		
6,500.0	6,414.5	6,446.8	6,435.5	21.0	12.9	160.35	-331.2	89.5	846.9	821.5	25.39	33.361		
6,600.0	6,512.9	6,545.8	6,534.3	21.4	13.1	160.35	-337.0	91.9	861.1	835.3	25.79	33.391		
6,700.0	6,611.3	6,644.8	6,633.1	21.7	13.3	160.36	-342.8	94.4	875.2	849.0	26.19	33.420		
6,800.0	6,709.8	6,743.4	6,731.6	22.1	13.5	160.53	-346.0	96.8	889.4	862.9	26.53	33.529		
6,843.8	6,752.9	6,786.0	6,774.1	22.3	13.5	160.84	-343.7	97.8	895.6	869.0	26.60	33.674		
6,850.0	6,759.0	6,792.0	6,780.1	22.3	13.5	163.65	-343.1	98.0	896.5	869.9	26.60	33.698		
6,900.0	6,808.3	6,840.0	6,827.6	22.4	13.5	-172.15	-337.0	99.2	903.7	877.1	26.62	33.954		
6,950.0	6,857.5	6,887.5	6,874.3	22.6	13.5	-149.97	-327.9	100.3	911.0	884.4	26.59	34.265		
7,000.0	6,906.4	6,934.7	6,919.9	22.7	13.5	-133.74	-315.7	101.4	918.3	891.8	26.52	34.623		
7,050.0	6,954.8	6,981.5	6,964.2	22.8	13.5	-122.68	-300.8	102.5	925.6	899.2	26.43	35.019		
7,100.0	7,002.3	7,027.9	7,007.1	22.9	13.4	-114.99	-283.1	103.6	932.8	906.5	26.32	35.442		
7,150.0	7,048.9	7,074.1	7,048.5	23.0	13.4	-109.39	-262.8	104.6	939.9	913.7	26.20	35.878		
7,200.0	7,094.2	7,119.9	7,088.3	23.1	13.3	-105.13	-240.0	105.6	946.9	920.8	26.07	36.316		
7,250.0	7,138.1	7,165.5	7,126.3	23.1	13.3	-101.77	-214.9	106.5	953.7	927.7	25.96	36.739		
7,300.0	7,180.2	7,210.8	7,162.4	23.2	13.2	-99.04	-187.6	107.4	960.3	934.4	25.86	37.133		
7,350.0	7,220.5	7,255.9	7,196.6	23.3	13.2	-96.77	-158.2	108.3	966.6	940.8	25.79	37.482		
7,400.0	7,258.7	7,300.0	7,228.2	23.3	13.2	-94.86	-127.5	109.1	972.6	946.9	25.75	37.768		
7,450.0	7,294.7	7,345.6	7,258.8	23.4	13.2	-93.23	-93.6	109.8	978.3	952.6	25.76	37.973		
7,500.0	7,328.2	7,390.2	7,286.6	23.5	13.2	-91.83	-58.8	110.5	983.7	957.9	25.83	38.084		
7,550.0	7,359.1	7,434.7	7,312.1	23.5	13.3	-90.63	-22.3	111.1	988.7	962.7	25.96	38.089		
7,600.0	7,387.2	7,479.1	7,335.2	23.6	13.3	-89.60	15.5	111.7	993.2	967.1	26.15	37.984		
7,650.0	7,412.5	7,523.4	7,355.9	23.8	13.5	-88.72	54.6	112.2	997.4	970.9	26.41	37.759		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-90.02	0.0	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.02	0.0	-40.0	40.0	39.7	0.30	134.846		
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-40.0	40.0	39.4	0.65	61.956		
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-40.0	40.0	39.0	0.99	40.217		
350.0	350.0	350.0	350.0	0.6	0.6	-90.02	0.0	-40.0	40.0	38.8	1.17	34.215 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	160.46	0.0	-40.0	40.2	38.9	1.34	29.924		
500.0	500.0	500.0	500.0	0.8	0.8	161.25	0.0	-40.0	41.9	40.2	1.69	24.726		
600.0	599.9	600.2	600.2	1.0	1.0	162.47	-0.2	-39.9	45.0	43.0	2.04	22.040		
700.0	699.8	700.7	700.7	1.2	1.2	162.82	-1.5	-38.7	48.8	46.4	2.39	20.384		
800.0	799.5	801.2	801.1	1.4	1.4	162.30	-4.1	-36.4	53.1	50.3	2.75	19.293		
900.0	899.2	901.8	901.5	1.6	1.6	161.12	-8.1	-32.9	57.8	54.7	3.11	18.564		
1,000.0	998.6	1,002.3	1,001.8	1.9	1.8	159.44	-13.4	-28.2	63.0	59.5	3.48	18.075		
1,100.0	1,097.9	1,102.1	1,101.3	2.1	2.0	158.04	-19.2	-23.0	69.3	65.5	3.87	17.938		
1,200.0	1,196.9	1,201.7	1,200.7	2.4	2.2	157.38	-25.1	-17.9	77.3	73.1	4.25	18.183		
1,300.0	1,295.7	1,301.3	1,299.9	2.7	2.4	157.28	-30.9	-12.7	87.0	82.3	4.65	18.718		
1,364.2	1,358.9	1,365.1	1,363.5	2.9	2.5	157.43	-34.7	-9.4	94.0	89.1	4.90	19.185		
1,400.0	1,394.2	1,400.7	1,399.0	3.0	2.6	157.57	-36.8	-7.6	98.1	93.0	5.04	19.463		
1,500.0	1,492.6	1,500.0	1,498.0	3.4	2.8	157.90	-42.6	-2.4	109.5	104.1	5.43	20.159		
1,600.0	1,591.0	1,599.3	1,597.0	3.7	3.0	158.16	-48.4	2.7	121.0	115.1	5.83	20.757		
1,700.0	1,689.5	1,698.7	1,696.1	4.0	3.2	158.38	-54.2	7.9	132.4	126.2	6.22	21.275		
1,800.0	1,787.9	1,798.0	1,795.1	4.4	3.4	158.57	-60.1	13.0	143.8	137.2	6.62	21.729		
1,900.0	1,886.3	1,897.4	1,894.1	4.7	3.7	158.72	-65.9	18.2	155.3	148.3	7.02	22.129		
2,000.0	1,984.8	1,996.7	1,993.2	5.1	3.9	158.86	-71.7	23.3	166.7	159.3	7.42	22.485		
2,100.0	2,083.2	2,096.0	2,092.2	5.4	4.1	158.98	-77.6	28.4	178.2	170.4	7.81	22.803		
2,200.0	2,181.7	2,195.4	2,191.3	5.8	4.3	159.08	-83.4	33.6	189.7	181.4	8.21	23.089		
2,300.0	2,280.1	2,294.7	2,290.3	6.1	4.5	159.17	-89.2	38.7	201.1	192.5	8.61	23.348		
2,400.0	2,378.5	2,394.1	2,389.3	6.5	4.7	159.26	-95.0	43.9	212.6	203.5	9.01	23.583		
2,500.0	2,477.0	2,493.4	2,488.4	6.8	5.0	159.33	-100.9	49.0	224.0	214.6	9.41	23.798		
2,600.0	2,575.4	2,592.8	2,587.4	7.2	5.2	159.40	-106.7	54.2	235.5	225.7	9.81	23.994		
2,700.0	2,673.8	2,692.1	2,686.4	7.5	5.4	159.46	-112.5	59.3	246.9	236.7	10.21	24.175		
2,800.0	2,772.3	2,791.4	2,785.5	7.9	5.6	159.51	-118.3	64.5	258.4	247.8	10.61	24.341		
2,900.0	2,870.7	2,890.8	2,884.5	8.2	5.8	159.56	-124.2	69.6	269.8	258.8	11.02	24.495		
3,000.0	2,969.2	2,990.1	2,983.6	8.6	6.0	159.61	-130.0	74.7	281.3	269.9	11.42	24.638		
3,100.0	3,067.6	3,089.5	3,082.6	8.9	6.3	159.65	-135.8	79.9	292.7	280.9	11.82	24.771		
3,200.0	3,166.0	3,188.8	3,181.6	9.3	6.5	159.69	-141.7	85.0	304.2	292.0	12.22	24.895		
3,300.0	3,264.5	3,288.1	3,280.7	9.6	6.7	159.73	-147.5	90.2	315.7	303.0	12.62	25.011		
3,400.0	3,362.9	3,387.5	3,379.7	10.0	6.9	159.76	-153.3	95.3	327.1	314.1	13.02	25.120		
3,500.0	3,461.3	3,486.8	3,478.7	10.3	7.1	159.79	-159.1	100.5	338.6	325.1	13.42	25.222		
3,600.0	3,559.8	3,586.2	3,577.8	10.7	7.4	159.82	-165.0	105.6	350.0	336.2	13.82	25.318		
3,700.0	3,658.2	3,685.5	3,676.8	11.1	7.6	159.85	-170.8	110.8	361.5	347.2	14.23	25.408		
3,800.0	3,756.7	3,784.9	3,775.9	11.4	7.8	159.88	-176.6	115.9	372.9	358.3	14.63	25.494		
3,900.0	3,855.1	3,884.2	3,874.9	11.8	8.0	159.90	-182.5	121.1	384.4	369.4	15.03	25.574		
4,000.0	3,953.5	3,983.5	3,973.9	12.1	8.2	159.93	-188.3	126.2	395.8	380.4	15.43	25.651		
4,100.0	4,052.0	4,082.9	4,073.0	12.5	8.5	159.95	-194.1	131.3	407.3	391.5	15.83	25.723		
4,200.0	4,150.4	4,182.2	4,172.0	12.8	8.7	159.97	-199.9	136.5	418.8	402.5	16.24	25.792		
4,300.0	4,248.8	4,281.6	4,271.0	13.2	8.9	159.99	-205.8	141.6	430.2	413.6	16.64	25.857		
4,400.0	4,347.3	4,380.9	4,370.1	13.5	9.1	160.01	-211.6	146.8	441.7	424.6	17.04	25.920		
4,500.0	4,445.7	4,480.2	4,469.1	13.9	9.3	160.02	-217.4	151.9	453.1	435.7	17.44	25.979		
4,600.0	4,544.2	4,579.6	4,568.1	14.3	9.6	160.04	-223.2	157.1	464.6	446.7	17.84	26.035		
4,700.0	4,642.6	4,678.9	4,667.2	14.6	9.8	160.06	-229.1	162.2	476.0	457.8	18.25	26.090		
4,800.0	4,741.0	4,778.3	4,766.2	15.0	10.0	160.07	-234.9	167.4	487.5	468.8	18.65	26.141		
4,900.0	4,839.5	4,877.6	4,865.3	15.3	10.2	160.09	-240.7	172.5	499.0	479.9	19.05	26.191		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,977.0	4,964.3	15.7	10.4	160.10	-246.6	177.6	510.4	491.0	19.45	26.238		
5,100.0	5,036.3	5,076.3	5,063.3	16.0	10.6	160.11	-252.4	182.8	521.9	502.0	19.86	26.283		
5,200.0	5,134.8	5,175.6	5,162.4	16.4	10.9	160.12	-258.2	187.9	533.3	513.1	20.26	26.327		
5,300.0	5,233.2	5,275.0	5,261.4	16.7	11.1	160.14	-264.0	193.1	544.8	524.1	20.66	26.369		
5,400.0	5,331.7	5,374.3	5,360.4	17.1	11.3	160.15	-269.9	198.2	556.2	535.2	21.06	26.409		
5,500.0	5,430.1	5,473.7	5,459.5	17.5	11.5	160.16	-275.7	203.4	567.7	546.2	21.46	26.448		
5,600.0	5,528.5	5,573.0	5,558.5	17.8	11.7	160.17	-281.5	208.5	579.1	557.3	21.87	26.485		
5,700.0	5,627.0	5,672.3	5,657.6	18.2	12.0	160.18	-287.4	213.7	590.6	568.3	22.27	26.521		
5,800.0	5,725.4	5,771.7	5,756.6	18.5	12.2	160.19	-293.2	218.8	602.1	579.4	22.67	26.556		
5,900.0	5,823.8	5,871.0	5,855.6	18.9	12.4	160.20	-299.0	223.9	613.5	590.4	23.07	26.589		
6,000.0	5,922.3	5,970.4	5,954.7	19.2	12.6	160.21	-304.8	229.1	625.0	601.5	23.48	26.621		
6,100.0	6,020.7	6,069.7	6,053.7	19.6	12.8	160.22	-310.7	234.2	636.4	612.6	23.88	26.652		
6,200.0	6,119.2	6,169.0	6,152.7	20.0	13.1	160.23	-316.5	239.4	647.9	623.6	24.28	26.682		
6,300.0	6,217.6	6,268.4	6,251.8	20.3	13.3	160.23	-322.3	244.5	659.3	634.7	24.68	26.711		
6,400.0	6,316.0	6,367.7	6,350.8	20.7	13.5	160.24	-328.1	249.7	670.8	645.7	25.09	26.740		
6,500.0	6,414.5	6,467.1	6,449.8	21.0	13.7	160.25	-334.0	254.8	682.3	656.8	25.49	26.767		
6,600.0	6,512.9	6,566.4	6,548.9	21.4	13.9	160.26	-339.8	260.0	693.7	667.8	25.89	26.793		
6,700.0	6,611.3	6,665.8	6,647.9	21.7	14.2	160.26	-345.6	265.1	705.2	678.9	26.29	26.819		
6,800.0	6,709.8	6,765.0	6,746.9	22.1	14.4	160.27	-351.4	270.2	716.6	689.9	26.69	26.846		
6,843.8	6,752.9	6,807.7	6,789.5	22.3	14.5	160.40	-352.4	272.4	721.7	694.9	26.82	26.907		
6,850.0	6,759.0	6,813.7	6,795.5	22.3	14.5	163.16	-352.3	272.7	722.4	695.6	26.83	26.922		
6,900.0	6,808.3	6,862.2	6,843.8	22.4	14.5	-172.93	-349.9	275.2	728.3	701.4	26.90	27.075		
6,950.0	6,857.5	6,910.4	6,891.7	22.6	14.6	-151.03	-344.3	277.5	734.2	707.3	26.92	27.279		
7,000.0	6,906.4	6,958.4	6,938.8	22.7	14.6	-135.08	-335.5	279.7	740.2	713.3	26.89	27.526		
7,050.0	6,954.8	7,006.3	6,985.1	22.8	14.6	-124.29	-323.6	281.9	746.2	719.4	26.83	27.813		
7,100.0	7,002.3	7,053.9	7,030.3	22.9	14.5	-116.85	-308.7	283.9	752.3	725.5	26.74	28.130		
7,150.0	7,048.9	7,101.5	7,074.3	23.0	14.5	-111.49	-290.8	285.9	758.2	731.6	26.63	28.471		
7,200.0	7,094.2	7,150.0	7,117.9	23.1	14.5	-107.46	-269.7	287.7	764.2	737.7	26.50	28.831		
7,250.0	7,138.1	7,196.1	7,158.0	23.1	14.4	-104.32	-246.9	289.4	770.0	743.6	26.39	29.182		
7,300.0	7,180.2	7,243.3	7,197.3	23.2	14.4	-101.79	-220.9	290.9	775.7	749.4	26.27	29.528		
7,350.0	7,220.5	7,290.4	7,234.8	23.3	14.3	-99.71	-192.5	292.3	781.2	755.0	26.17	29.852		
7,400.0	7,258.7	7,337.3	7,270.3	23.3	14.3	-97.97	-161.7	293.6	786.5	760.4	26.10	30.138		
7,450.0	7,294.7	7,384.3	7,303.6	23.4	14.3	-96.50	-128.7	294.7	791.7	765.6	26.06	30.373		
7,500.0	7,328.2	7,431.2	7,334.7	23.5	14.3	-95.25	-93.6	295.7	796.5	770.5	26.08	30.542		
7,550.0	7,359.1	7,478.1	7,363.5	23.5	14.3	-94.18	-56.6	296.5	801.2	775.0	26.15	30.633		
7,600.0	7,387.2	7,524.9	7,389.7	23.6	14.4	-93.26	-17.8	297.2	805.5	779.2	26.29	30.636		
7,650.0	7,412.5	7,571.8	7,413.4	23.8	14.5	-92.48	22.6	297.7	809.6	783.0	26.51	30.543		
7,700.0	7,434.7	7,618.6	7,434.3	23.9	14.6	-91.82	64.5	298.0	813.3	786.5	26.80	30.348		
7,750.0	7,453.9	7,665.5	7,452.5	24.1	14.8	-91.27	107.7	298.2	816.6	789.5	27.17	30.054		
7,800.0	7,469.8	7,712.4	7,467.9	24.2	15.0	-90.82	152.0	298.2	819.6	792.0	27.63	29.663		
7,850.0	7,482.4	7,759.3	7,480.3	24.4	15.2	-90.48	197.3	298.0	822.3	794.1	28.18	29.184		
7,900.0	7,491.6	7,806.3	7,489.7	24.7	15.5	-90.22	243.3	297.7	824.5	795.7	28.80	28.628		
7,950.0	7,497.5	7,853.4	7,496.1	24.9	15.9	-90.06	289.9	297.2	826.4	796.9	29.51	28.007		
8,000.0	7,499.9	7,900.0	7,499.5	25.2	16.2	-89.99	336.4	296.6	827.8	797.5	30.27	27.345		
8,010.3	7,500.0	7,910.3	7,499.8	25.2	16.3	-89.98	346.6	296.4	828.1	797.6	30.46	27.189		
8,100.0	7,500.0	7,998.9	7,500.0	25.8	17.1	-90.00	435.2	294.9	830.2	798.1	32.14	25.836		
8,200.0	7,500.0	8,098.9	7,500.0	26.5	18.1	-90.00	535.2	293.1	832.7	798.4	34.28	24.293		
8,300.0	7,500.0	8,198.8	7,500.0	27.3	19.2	-90.00	635.2	291.4	835.1	798.5	36.63	22.800		
8,400.0	7,500.0	8,298.8	7,500.0	28.2	20.4	-90.00	735.1	289.6	837.6	798.4	39.15	21.392		
8,500.0	7,500.0	8,398.8	7,500.0	29.1	21.7	-90.00	835.1	287.9	840.0	798.2	41.82	20.086		
8,600.0	7,500.0	8,498.7	7,500.0	30.2	23.1	-90.00	935.0	286.1	842.5	797.9	44.60	18.887		
8,700.0	7,500.0	8,598.7	7,500.0	31.3	24.5	-90.00	1,035.0	284.4	844.9	797.4	47.48	17.794		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													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		
8,800.0	7,500.0	8,698.7	7,500.0	32.4	25.9	-90.00	1,134.9	282.7	847.3	796.9	50.44	16.798			
8,900.0	7,500.0	8,798.6	7,500.0	33.6	27.4	-90.00	1,234.9	280.9	849.8	796.3	53.47	15.893			
9,000.0	7,500.0	8,898.6	7,500.0	34.9	28.9	-90.00	1,334.8	279.2	852.2	795.7	56.55	15.071			
9,100.0	7,500.0	8,998.6	7,500.0	36.2	30.4	-90.00	1,434.8	277.4	854.7	795.0	59.68	14.322			
9,200.0	7,500.0	9,098.6	7,500.0	37.5	32.0	-90.00	1,534.8	275.7	857.1	794.3	62.85	13.638			
9,300.0	7,500.0	9,198.5	7,500.0	38.9	33.5	-90.00	1,634.7	273.9	859.6	793.5	66.05	13.014			
9,400.0	7,500.0	9,298.5	7,500.0	40.3	35.1	-90.00	1,734.7	272.2	862.0	792.7	69.28	12.442			
9,500.0	7,500.0	9,398.5	7,500.0	41.7	36.7	-90.00	1,834.6	270.4	864.5	791.9	72.54	11.917			
9,600.0	7,500.0	9,498.4	7,500.0	43.2	38.4	-90.00	1,934.6	268.7	866.9	791.1	75.82	11.434			
9,700.0	7,500.0	9,598.4	7,500.0	44.7	40.0	-90.00	2,034.5	267.0	869.3	790.2	79.12	10.988			
9,800.0	7,500.0	9,698.4	7,500.0	46.2	41.6	-90.00	2,134.5	265.2	871.8	789.3	82.43	10.575			
9,900.0	7,500.0	9,798.3	7,500.0	47.7	43.3	-90.00	2,234.4	263.5	874.2	788.5	85.77	10.193			
10,000.0	7,500.0	9,898.3	7,500.0	49.2	44.9	-90.00	2,334.4	261.7	876.7	787.6	89.11	9.838			
10,100.0	7,500.0	9,998.3	7,500.0	50.7	46.6	-90.00	2,434.3	260.0	879.1	786.6	92.47	9.507			
10,200.0	7,500.0	10,098.3	7,500.0	52.3	48.3	-90.00	2,534.3	258.2	881.6	785.7	95.84	9.198			
10,250.3	7,500.0	10,148.6	7,500.0	53.1	49.1	-90.00	2,584.6	257.4	882.8	785.2	97.54	9.051			
10,300.0	7,500.0	10,198.2	7,500.0	53.9	49.9	-90.00	2,634.3	256.5	884.2	785.0	99.21	8.912			
10,400.0	7,500.0	10,298.1	7,500.0	55.5	51.6	-90.00	2,734.1	254.7	888.4	785.8	102.60	8.659			
10,498.8	7,500.0	10,398.8	7,500.0	57.1	53.3	-90.00	2,832.8	253.0	894.2	788.3	105.95	8.440			
10,500.0	7,500.0	10,398.0	7,500.0	57.1	53.3	-90.00	2,834.0	253.0	894.3	788.3	105.99	8.438			
10,600.0	7,500.0	10,497.7	7,500.0	58.7	55.0	-90.00	2,933.7	251.3	901.1	791.7	109.38	8.238			
10,700.0	7,500.0	10,597.5	7,500.0	60.3	56.7	-90.00	3,033.5	249.5	907.9	795.1	112.78	8.050			
10,800.0	7,500.0	10,697.3	7,500.0	62.0	58.4	-90.00	3,133.2	247.8	914.6	798.5	116.19	7.872			
10,900.0	7,500.0	10,797.0	7,500.0	63.6	60.1	-90.00	3,233.0	246.0	921.4	801.8	119.61	7.704			
11,000.0	7,500.0	10,896.8	7,500.0	65.3	61.8	-90.00	3,332.7	244.3	928.2	805.2	123.02	7.545			
11,100.0	7,500.0	10,996.6	7,500.0	66.9	63.5	-90.00	3,432.5	242.6	935.0	808.5	126.45	7.394			
11,200.0	7,500.0	11,096.3	7,500.0	68.6	65.2	-90.00	3,532.2	240.8	941.7	811.9	129.87	7.251			
11,300.0	7,500.0	11,196.1	7,500.0	70.2	66.9	-90.00	3,632.0	239.1	948.5	815.2	133.30	7.115			
11,400.0	7,500.0	11,295.9	7,500.0	71.9	68.6	-90.00	3,731.8	237.3	955.3	818.6	136.74	6.986			
11,500.0	7,500.0	11,395.7	7,500.0	73.6	70.3	-90.00	3,831.5	235.6	962.1	821.9	140.18	6.863			
11,600.0	7,500.0	11,495.4	7,500.0	75.3	72.0	-90.00	3,931.3	233.8	968.8	825.2	143.62	6.746			
11,700.0	7,500.0	11,595.2	7,500.0	76.9	73.8	-90.00	4,031.0	232.1	975.6	828.6	147.06	6.634			
11,800.0	7,500.0	11,695.0	7,500.0	78.6	75.5	-90.00	4,130.8	230.4	982.4	831.9	150.51	6.527			
11,907.9	7,500.0	11,802.6	7,500.0	80.4	77.3	-90.00	4,238.4	228.5	989.7	835.5	154.23	6.417 SF			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Survey Program:	0-Geolink MWD	
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	-90.06	0.0	-30.2	30.2						
100.0	100.0	100.0	100.0	0.1	0.1	-90.06	0.0	-30.2	30.2	29.9	0.30	101.842			
200.0	200.0	200.0	200.0	0.3	0.3	-90.06	0.0	-30.2	30.2	29.6	0.65	46.792			
300.0	300.0	300.0	300.0	0.5	0.5	-90.06	0.0	-30.2	30.2	29.2	0.99	30.374			
350.0	350.0	350.0	350.0	0.6	0.6	-90.06	0.0	-30.2	30.2	29.0	1.17	25.840 CC, ES			
400.0	400.0	400.0	400.0	0.7	0.7	160.45	0.0	-30.2	30.4	29.1	1.34	22.637			
500.0	500.0	500.0	500.0	0.8	0.8	161.49	0.0	-30.2	32.1	30.4	1.69	18.943			
600.0	599.9	600.4	600.4	1.0	1.0	162.53	-0.5	-29.5	34.7	32.6	2.04	16.958			
700.0	699.8	700.9	700.9	1.2	1.2	162.77	-2.0	-27.3	37.4	35.0	2.40	15.624			
800.0	799.5	801.5	801.3	1.4	1.4	162.40	-4.5	-23.7	40.4	37.6	2.75	14.682			
900.0	899.2	902.0	901.7	1.6	1.6	161.52	-8.0	-18.6	43.5	40.4	3.11	13.993			
1,000.0	998.6	1,002.6	1,002.0	1.9	1.8	160.27	-12.5	-12.0	46.9	43.4	3.48	13.471			
1,100.0	1,097.9	1,103.2	1,102.1	2.1	2.0	158.71	-18.0	-4.1	50.4	46.6	3.86	13.064			
1,200.0	1,196.9	1,203.1	1,201.5	2.4	2.2	157.53	-23.9	4.6	55.0	50.7	4.25	12.925			
1,300.0	1,295.7	1,302.9	1,300.7	2.7	2.5	157.18	-29.8	13.2	61.1	56.5	4.65	13.146			
1,364.2	1,358.9	1,366.9	1,364.4	2.9	2.6	157.29	-33.6	18.7	65.9	61.0	4.90	13.442			
1,400.0	1,394.2	1,402.7	1,399.9	3.0	2.7	157.42	-35.7	21.8	68.8	63.7	5.04	13.632			
1,500.0	1,492.6	1,502.3	1,499.0	3.4	2.9	157.73	-41.6	30.4	76.8	71.3	5.44	14.108			
1,600.0	1,591.0	1,602.0	1,598.2	3.7	3.2	157.99	-47.5	39.1	84.7	78.9	5.84	14.515			
1,700.0	1,689.5	1,701.7	1,697.3	4.0	3.4	158.19	-53.5	47.7	92.7	86.5	6.24	14.869			
1,800.0	1,787.9	1,801.4	1,796.4	4.4	3.7	158.37	-59.4	56.3	100.7	94.1	6.64	15.178			
1,900.0	1,886.3	1,901.1	1,895.5	4.7	3.9	158.52	-65.3	64.9	108.7	101.7	7.04	15.450			
2,000.0	1,984.8	2,000.7	1,994.7	5.1	4.2	158.65	-71.2	73.5	116.7	109.3	7.44	15.692			
2,100.0	2,083.2	2,100.4	2,093.8	5.4	4.4	158.76	-77.1	82.2	124.7	116.9	7.84	15.908			
2,200.0	2,181.7	2,200.1	2,192.9	5.8	4.7	158.86	-83.0	90.8	132.7	124.5	8.24	16.102			
2,300.0	2,280.1	2,299.8	2,292.1	6.1	4.9	158.95	-88.9	99.4	140.7	132.1	8.64	16.278			
2,400.0	2,378.5	2,399.4	2,391.2	6.5	5.1	159.03	-94.8	108.0	148.7	139.7	9.05	16.437			
2,500.0	2,477.0	2,499.1	2,490.3	6.8	5.4	159.10	-100.7	116.6	156.7	147.3	9.45	16.583			
2,600.0	2,575.4	2,598.8	2,589.5	7.2	5.6	159.17	-106.6	125.2	164.7	154.8	9.85	16.716			
2,700.0	2,673.8	2,698.5	2,688.6	7.5	5.9	159.22	-112.5	133.9	172.7	162.4	10.26	16.838			
2,800.0	2,772.3	2,798.2	2,787.7	7.9	6.1	159.28	-118.5	142.5	180.7	170.0	10.66	16.951			
2,900.0	2,870.7	2,897.8	2,886.8	8.2	6.4	159.32	-124.4	151.1	188.7	177.6	11.06	17.055			
3,000.0	2,969.2	2,997.5	2,986.0	8.6	6.6	159.37	-130.3	159.7	196.7	185.2	11.47	17.152			
3,100.0	3,067.6	3,097.2	3,085.1	8.9	6.9	159.41	-136.2	168.3	204.7	192.8	11.87	17.242			
3,200.0	3,166.0	3,196.9	3,184.2	9.3	7.1	159.45	-142.1	176.9	212.7	200.4	12.28	17.326			
3,300.0	3,264.5	3,296.6	3,283.4	9.6	7.4	159.48	-148.0	185.6	220.7	208.0	12.68	17.404			
3,400.0	3,362.9	3,396.2	3,382.5	10.0	7.6	159.52	-153.9	194.2	228.7	215.6	13.08	17.478			
3,500.0	3,461.3	3,495.9	3,481.6	10.3	7.9	159.55	-159.8	202.8	236.7	223.2	13.49	17.547			
3,600.0	3,559.8	3,595.6	3,580.8	10.7	8.1	159.57	-165.7	211.4	244.7	230.8	13.89	17.612			
3,700.0	3,658.2	3,695.3	3,679.9	11.1	8.4	159.60	-171.6	220.0	252.7	238.4	14.30	17.673			
3,800.0	3,756.7	3,795.0	3,779.0	11.4	8.6	159.63	-177.5	228.6	260.7	246.0	14.70	17.730			
3,900.0	3,855.1	3,894.6	3,878.2	11.8	8.9	159.65	-183.5	237.3	268.7	253.6	15.11	17.785			
4,000.0	3,953.5	3,994.3	3,977.3	12.1	9.1	159.67	-189.4	245.9	276.7	261.2	15.51	17.836			
4,100.0	4,052.0	4,094.0	4,076.4	12.5	9.4	159.69	-195.3	254.5	284.7	268.8	15.92	17.885			
4,200.0	4,150.4	4,193.7	4,175.5	12.8	9.7	159.71	-201.2	263.1	292.7	276.3	16.32	17.932			
4,300.0	4,248.8	4,293.4	4,274.7	13.2	9.9	159.73	-207.1	271.7	300.7	283.9	16.73	17.976			
4,400.0	4,347.3	4,393.0	4,373.8	13.5	10.2	159.75	-213.0	280.3	308.7	291.5	17.13	18.018			
4,500.0	4,445.7	4,492.7	4,472.9	13.9	10.4	159.77	-218.9	289.0	316.7	299.1	17.54	18.058			
4,600.0	4,544.2	4,592.4	4,572.1	14.3	10.7	159.78	-224.8	297.6	324.7	306.7	17.94	18.096			
4,700.0	4,642.6	4,692.1	4,671.2	14.6	10.9	159.80	-230.7	306.2	332.7	314.3	18.35	18.133			
4,800.0	4,741.0	4,791.8	4,770.3	15.0	11.2	159.81	-236.6	314.8	340.7	321.9	18.75	18.167			
4,900.0	4,839.5	4,891.4	4,869.5	15.3	11.4	159.83	-242.5	323.4	348.7	329.5	19.16	18.201			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:		0.0 ft
Survey Program: 0-Geolink MWD															
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		
5,000.0	4,937.9	4,991.1	4,968.6	15.7	11.7	159.84	-248.5	332.0	356.7	337.1	19.56	18.233			
5,100.0	5,036.3	5,090.8	5,067.7	16.0	11.9	159.85	-254.4	340.7	364.7	344.7	19.97	18.263			
5,200.0	5,134.8	5,190.5	5,166.8	16.4	12.2	159.86	-260.3	349.3	372.7	352.3	20.37	18.293			
5,300.0	5,233.2	5,290.2	5,266.0	16.7	12.4	159.87	-266.2	357.9	380.7	359.9	20.78	18.321			
5,400.0	5,331.7	5,389.8	5,365.1	17.1	12.7	159.89	-272.1	366.5	388.7	367.5	21.18	18.348			
5,500.0	5,430.1	5,489.5	5,464.2	17.5	12.9	159.90	-278.0	375.1	396.6	375.1	21.59	18.374			
5,600.0	5,528.5	5,589.2	5,563.4	17.8	13.2	159.91	-283.9	383.8	404.6	382.7	21.99	18.399			
5,700.0	5,627.0	5,688.9	5,662.5	18.2	13.4	159.92	-289.8	392.4	412.6	390.2	22.40	18.424			
5,800.0	5,725.4	5,788.6	5,761.6	18.5	13.7	159.93	-295.7	401.0	420.6	397.8	22.80	18.447			
5,900.0	5,823.8	5,888.2	5,860.8	18.9	13.9	159.94	-301.6	409.6	428.6	405.4	23.21	18.469			
6,000.0	5,922.3	5,987.9	5,959.9	19.2	14.2	159.94	-307.5	418.2	436.6	413.0	23.61	18.491			
6,100.0	6,020.7	6,087.6	6,059.0	19.6	14.4	159.95	-313.5	426.8	444.6	420.6	24.02	18.512			
6,200.0	6,119.2	6,187.3	6,158.2	20.0	14.7	159.96	-319.4	435.5	452.6	428.2	24.42	18.532			
6,300.0	6,217.6	6,287.0	6,257.3	20.3	14.9	159.97	-325.3	444.1	460.6	435.8	24.83	18.552			
6,400.0	6,316.0	6,386.6	6,356.4	20.7	15.2	159.98	-331.2	452.7	468.6	443.4	25.24	18.571			
6,500.0	6,414.5	6,486.3	6,455.5	21.0	15.4	159.98	-337.1	461.3	476.6	451.0	25.64	18.589			
6,600.0	6,512.9	6,586.0	6,554.7	21.4	15.7	159.99	-343.0	469.9	484.6	458.6	26.05	18.607			
6,700.0	6,611.3	6,685.7	6,653.8	21.7	15.9	160.00	-348.9	478.5	492.6	466.2	26.45	18.624			
6,800.0	6,709.8	6,785.4	6,753.0	22.1	16.2	160.01	-354.8	487.2	500.6	473.8	26.85	18.643			
6,843.8	6,752.9	6,829.5	6,796.9	22.3	16.3	160.23	-355.5	491.0	504.1	477.2	26.96	18.700			
6,850.0	6,759.0	6,835.7	6,803.1	22.3	16.3	162.99	-355.4	491.5	504.6	477.6	26.97	18.712			
6,900.0	6,808.3	6,885.7	6,852.8	22.4	16.4	-173.09	-352.5	495.9	508.6	481.6	26.99	18.845			
6,950.0	6,857.5	6,935.4	6,901.9	22.6	16.4	-151.19	-346.3	500.3	512.6	485.6	26.96	19.012			
7,000.0	6,906.4	6,984.8	6,950.2	22.7	16.5	-135.23	-336.6	504.6	516.5	489.7	26.89	19.209			
7,050.0	6,954.8	7,034.1	6,997.5	22.8	16.5	-124.43	-323.7	508.8	520.5	493.7	26.79	19.428			
7,100.0	7,002.3	7,083.1	7,043.6	22.9	16.5	-116.98	-307.7	513.0	524.4	497.7	26.67	19.665			
7,150.0	7,048.9	7,131.9	7,088.4	23.0	16.5	-111.62	-288.6	517.1	528.2	501.7	26.53	19.911			
7,200.0	7,094.2	7,180.5	7,131.5	23.1	16.5	-107.59	-266.6	521.0	532.0	505.6	26.39	20.158			
7,250.0	7,138.1	7,228.9	7,172.9	23.1	16.5	-104.44	-241.8	524.9	535.6	509.4	26.26	20.397			
7,300.0	7,180.2	7,277.1	7,212.4	23.2	16.4	-101.91	-214.4	528.6	539.1	513.0	26.15	20.619			
7,350.0	7,220.5	7,325.2	7,249.8	23.3	16.4	-99.83	-184.4	532.1	542.5	516.4	26.07	20.813			
7,400.0	7,258.7	7,373.1	7,285.0	23.3	16.4	-98.09	-152.2	535.5	545.7	519.6	26.02	20.969			
7,450.0	7,294.7	7,420.8	7,317.9	23.4	16.5	-96.61	-117.8	538.6	548.7	522.6	26.03	21.079			
7,500.0	7,328.2	7,468.4	7,348.3	23.5	16.5	-95.36	-81.3	541.6	551.5	525.4	26.09	21.133			
7,550.0	7,359.1	7,515.9	7,376.2	23.5	16.6	-94.28	-43.0	544.4	554.1	527.8	26.23	21.122			
7,600.0	7,387.2	7,563.2	7,401.5	23.6	16.6	-93.36	-3.0	546.9	556.4	530.0	26.42	21.058			
7,650.0	7,412.5	7,610.5	7,424.0	23.8	16.8	-92.57	38.4	549.3	558.5	531.8	26.70	20.917			
7,700.0	7,434.7	7,657.6	7,443.7	23.9	16.9	-91.90	81.2	551.4	560.4	533.3	27.06	20.710			
7,750.0	7,453.9	7,704.7	7,460.5	24.1	17.1	-91.34	125.1	553.2	562.0	534.5	27.49	20.441			
7,800.0	7,469.8	7,751.7	7,474.4	24.2	17.3	-90.89	169.9	554.8	563.3	535.3	28.00	20.115			
7,850.0	7,482.4	7,800.0	7,485.6	24.4	17.6	-90.53	216.9	556.2	564.3	535.7	28.62	19.715			
7,900.0	7,491.6	7,845.4	7,493.2	24.7	17.8	-90.27	261.7	557.3	565.0	535.8	29.25	19.318			
7,950.0	7,497.5	7,892.3	7,498.1	24.9	18.1	-90.09	308.3	558.1	565.5	535.5	29.97	18.865			
8,000.0	7,499.9	7,939.1	7,500.0	25.2	18.5	-90.01	355.0	558.7	565.6	534.9	30.76	18.390			
8,010.3	7,500.0	7,949.0	7,500.0	25.2	18.6	-90.00	365.0	558.8	565.6	534.7	30.94	18.283			
8,100.0	7,500.0	8,038.7	7,500.0	25.8	19.3	-90.00	454.7	559.6	565.5	532.7	32.73	17.277			
8,200.0	7,500.0	8,138.7	7,500.0	26.5	20.3	-90.00	554.7	560.4	565.3	530.3	34.94	16.180			
8,300.0	7,500.0	8,238.7	7,500.0	27.3	21.3	-90.00	654.7	561.3	565.1	527.8	37.35	15.132			
8,400.0	7,500.0	8,338.7	7,500.0	28.2	22.4	-90.00	754.7	562.2	564.9	525.0	39.92	14.153			
8,500.0	7,500.0	8,438.7	7,500.0	29.1	23.7	-90.00	854.7	563.0	564.8	522.1	42.62	13.250			
8,600.0	7,500.0	8,538.7	7,500.0	30.2	24.9	-90.00	954.7	563.9	564.6	519.1	45.44	12.425			
8,700.0	7,500.0	8,638.7	7,500.0	31.3	26.3	-90.00	1,054.6	564.8	564.4	516.1	48.35	11.674			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
8,800.0	7,500.0	8,738.7	7,500.0	32.4	27.6	-90.00	1,154.6	565.7	564.2	512.9	51.33	10.993		
8,900.0	7,500.0	8,838.7	7,500.0	33.6	29.1	-90.00	1,254.6	566.5	564.1	509.7	54.37	10.374		
9,000.0	7,500.0	8,938.7	7,500.0	34.9	30.5	-90.00	1,354.6	567.4	563.9	506.4	57.47	9.812		
9,100.0	7,500.0	9,038.7	7,500.0	36.2	32.0	-90.00	1,454.6	568.3	563.7	503.1	60.61	9.300		
9,200.0	7,500.0	9,138.7	7,500.0	37.5	33.5	-90.00	1,554.6	569.2	563.5	499.7	63.79	8.834		
9,300.0	7,500.0	9,238.7	7,500.0	38.9	35.0	-90.00	1,654.6	570.0	563.4	496.4	67.01	8.407		
9,400.0	7,500.0	9,338.7	7,500.0	40.3	36.6	-90.00	1,754.6	570.9	563.2	492.9	70.25	8.017		
9,500.0	7,500.0	9,438.7	7,500.0	41.7	38.2	-90.00	1,854.6	571.8	563.0	489.5	73.51	7.658		
9,600.0	7,500.0	9,538.7	7,500.0	43.2	39.7	-90.00	1,954.6	572.6	562.8	486.0	76.80	7.328		
9,700.0	7,500.0	9,638.7	7,500.0	44.7	41.3	-90.00	2,054.6	573.5	562.7	482.6	80.11	7.024		
9,800.0	7,500.0	9,738.7	7,500.0	46.2	43.0	-90.00	2,154.6	574.4	562.5	479.1	83.43	6.742		
9,856.3	7,500.0	9,794.1	7,500.0	47.0	43.9	-90.00	2,210.0	574.9	562.4	477.2	85.25	6.597		
9,900.0	7,500.0	9,833.8	7,500.0	47.7	44.5	-90.00	2,249.7	575.0	562.6	476.1	86.44	6.508		
10,000.0	7,500.0	9,929.0	7,500.0	49.2	46.0	-90.00	2,344.9	574.4	563.9	474.4	89.47	6.303		
10,100.0	7,500.0	10,029.0	7,500.0	50.7	47.7	-90.00	2,444.9	573.5	565.4	472.6	92.82	6.091		
10,200.0	7,500.0	10,129.0	7,500.0	52.3	49.3	-90.00	2,544.8	572.7	567.0	470.8	96.19	5.894		
10,250.3	7,500.0	10,179.3	7,500.0	53.1	50.1	-90.00	2,595.2	572.3	567.8	469.9	97.89	5.800		
10,300.0	7,500.0	10,229.0	7,500.0	53.9	51.0	-90.00	2,644.8	571.8	568.7	469.2	99.57	5.712		
10,400.0	7,500.0	10,328.9	7,500.0	55.5	52.6	-90.00	2,744.8	571.0	572.0	469.1	102.96	5.556		
10,498.8	7,500.0	10,427.6	7,500.0	57.1	54.3	-90.00	2,843.5	570.1	577.0	470.7	106.31	5.427		
10,500.0	7,500.0	10,428.8	7,500.0	57.1	54.3	-90.00	2,844.6	570.1	577.1	470.7	106.35	5.426		
10,600.0	7,500.0	10,528.6	7,500.0	58.7	55.9	-90.00	2,944.5	569.3	583.0	473.2	109.75	5.312		
10,700.0	7,500.0	10,628.4	7,500.0	60.3	57.6	-90.00	3,044.3	568.4	588.8	475.7	113.15	5.204		
10,800.0	7,500.0	10,728.3	7,500.0	62.0	59.3	-90.00	3,144.1	567.6	594.7	478.2	116.56	5.102		
10,900.0	7,500.0	10,828.1	7,500.0	63.6	61.0	-90.00	3,243.9	566.7	600.6	480.6	119.98	5.006		
11,000.0	7,500.0	10,927.9	7,500.0	65.3	62.6	-90.00	3,343.8	565.9	606.5	483.1	123.40	4.915		
11,100.0	7,500.0	11,027.7	7,500.0	66.9	64.3	-90.00	3,443.6	565.0	612.4	485.6	126.82	4.829		
11,200.0	7,500.0	11,127.6	7,500.0	68.6	66.0	-90.00	3,543.4	564.2	618.3	488.0	130.25	4.747		
11,300.0	7,500.0	11,227.4	7,500.0	70.2	67.7	-90.00	3,643.2	563.3	624.2	490.5	133.69	4.669		
11,400.0	7,500.0	11,327.2	7,500.0	71.9	69.4	-90.00	3,743.0	562.5	630.0	492.9	137.12	4.595		
11,500.0	7,500.0	11,427.0	7,500.0	73.6	71.1	-90.00	3,842.9	561.6	635.9	495.4	140.56	4.524		
11,600.0	7,500.0	11,526.9	7,500.0	75.3	72.8	-90.00	3,942.7	560.8	641.8	497.8	144.01	4.457		
11,700.0	7,500.0	11,626.7	7,500.0	76.9	74.5	-90.00	4,042.5	559.9	647.7	500.2	147.45	4.393		
11,800.0	7,500.0	11,726.5	7,500.0	78.6	76.2	-90.00	4,142.3	559.1	653.6	502.7	150.90	4.331		
11,907.9	7,500.0	11,834.2	7,500.0	80.4	78.1	-90.00	4,250.0	558.1	659.9	505.3	154.62	4.268 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-90.17	-0.1	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-90.17	-0.1	-20.1	20.1	19.8	0.30	67.895		
200.0	200.0	200.0	200.0	0.3	0.3	-90.17	-0.1	-20.1	20.1	19.5	0.65	31.195		
300.0	300.0	300.0	300.0	0.5	0.5	-90.17	-0.1	-20.1	20.1	19.1	0.99	20.249		
350.0	350.0	350.0	350.0	0.6	0.6	-90.17	-0.1	-20.1	20.1	19.0	1.17	17.227	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	160.42	-0.1	-20.1	20.4	19.0	1.34	15.143		
500.0	500.0	500.0	500.0	0.8	0.8	161.94	-0.1	-20.1	22.0	20.3	1.69	12.995		
600.0	599.9	600.3	600.3	1.0	1.0	163.50	-0.5	-19.4	24.6	22.5	2.04	12.019		
700.0	699.8	700.7	700.6	1.2	1.2	164.16	-1.8	-17.1	27.2	24.8	2.39	11.373		
800.0	799.5	801.1	801.0	1.4	1.4	164.14	-4.0	-13.3	30.0	27.3	2.75	10.922		
900.0	899.2	901.5	901.2	1.6	1.6	163.62	-7.0	-7.9	32.9	29.8	3.10	10.595		
1,000.0	998.6	1,002.0	1,001.4	1.9	1.8	162.72	-10.9	-1.0	35.9	32.4	3.47	10.349		
1,100.0	1,097.9	1,102.6	1,101.5	2.1	2.0	161.55	-15.7	7.4	39.0	35.1	3.84	10.158		
1,200.0	1,196.9	1,203.1	1,201.3	2.4	2.2	160.16	-21.4	17.3	42.2	38.0	4.22	10.001		
1,300.0	1,295.7	1,303.0	1,300.5	2.7	2.5	159.29	-27.3	27.8	46.5	41.9	4.62	10.075		
1,364.2	1,358.9	1,367.0	1,364.1	2.9	2.7	159.19	-31.2	34.5	50.1	45.2	4.87	10.293		
1,400.0	1,394.2	1,402.8	1,399.6	3.0	2.7	159.22	-33.3	38.3	52.3	47.3	5.01	10.443		
1,500.0	1,492.6	1,502.6	1,498.7	3.4	3.0	159.30	-39.3	48.7	58.5	53.1	5.40	10.818		
1,600.0	1,591.0	1,602.4	1,597.7	3.7	3.3	159.37	-45.2	59.2	64.6	58.8	5.80	11.138		
1,700.0	1,689.5	1,702.2	1,696.8	4.0	3.5	159.42	-51.2	69.7	70.7	64.5	6.20	11.413		
1,800.0	1,787.9	1,802.1	1,795.9	4.4	3.8	159.47	-57.1	80.1	76.9	70.3	6.60	11.654		
1,900.0	1,886.3	1,901.9	1,895.0	4.7	4.0	159.51	-63.1	90.6	83.0	76.0	7.00	11.865		
2,000.0	1,984.8	2,001.7	1,994.1	5.1	4.3	159.54	-69.1	101.1	89.2	81.8	7.40	12.052		
2,100.0	2,083.2	2,101.5	2,093.1	5.4	4.6	159.57	-75.0	111.6	95.3	87.5	7.80	12.218		
2,200.0	2,181.7	2,201.3	2,192.2	5.8	4.8	159.59	-81.0	122.0	101.5	93.3	8.21	12.367		
2,300.0	2,280.1	2,301.1	2,291.3	6.1	5.1	159.62	-87.0	132.5	107.6	99.0	8.61	12.502		
2,400.0	2,378.5	2,400.9	2,390.4	6.5	5.4	159.64	-92.9	143.0	113.8	104.8	9.01	12.624		
2,500.0	2,477.0	2,500.7	2,489.5	6.8	5.6	159.65	-98.9	153.5	119.9	110.5	9.42	12.734		
2,600.0	2,575.4	2,600.5	2,588.6	7.2	5.9	159.67	-104.8	163.9	126.1	116.2	9.82	12.835		
2,700.0	2,673.8	2,700.4	2,687.6	7.5	6.2	159.69	-110.8	174.4	132.2	122.0	10.23	12.928		
2,800.0	2,772.3	2,800.2	2,786.7	7.9	6.5	159.70	-116.8	184.9	138.3	127.7	10.63	13.013		
2,900.0	2,870.7	2,900.0	2,885.8	8.2	6.7	159.71	-122.7	195.4	144.5	133.5	11.04	13.092		
3,000.0	2,969.2	2,999.8	2,984.9	8.6	7.0	159.72	-128.7	205.8	150.6	139.2	11.44	13.165		
3,100.0	3,067.6	3,099.6	3,084.0	8.9	7.3	159.73	-134.7	216.3	156.8	144.9	11.85	13.233		
3,200.0	3,166.0	3,199.4	3,183.0	9.3	7.5	159.74	-140.6	226.8	162.9	150.7	12.25	13.296		
3,300.0	3,264.5	3,299.2	3,282.1	9.6	7.8	159.75	-146.6	237.3	169.1	156.4	12.66	13.355		
3,400.0	3,362.9	3,399.0	3,381.2	10.0	8.1	159.76	-152.5	247.7	175.2	162.2	13.07	13.410		
3,500.0	3,461.3	3,498.8	3,480.3	10.3	8.4	159.77	-158.5	258.2	181.4	167.9	13.47	13.461		
3,600.0	3,559.8	3,598.6	3,579.4	10.7	8.6	159.78	-164.5	268.7	187.5	173.6	13.88	13.509		
3,700.0	3,658.2	3,698.5	3,678.4	11.1	8.9	159.78	-170.4	279.2	193.7	179.4	14.29	13.555		
3,800.0	3,756.7	3,798.3	3,777.5	11.4	9.2	159.79	-176.4	289.6	199.8	185.1	14.69	13.598		
3,900.0	3,855.1	3,898.1	3,876.6	11.8	9.4	159.79	-182.4	300.1	206.0	190.9	15.10	13.638		
4,000.0	3,953.5	3,997.9	3,975.7	12.1	9.7	159.80	-188.3	310.6	212.1	196.6	15.51	13.677		
4,100.0	4,052.0	4,097.7	4,074.8	12.5	10.0	159.81	-194.3	321.1	218.2	202.3	15.92	13.713		
4,200.0	4,150.4	4,197.5	4,173.8	12.8	10.3	159.81	-200.2	331.5	224.4	208.1	16.32	13.747		
4,300.0	4,248.8	4,297.3	4,272.9	13.2	10.5	159.82	-206.2	342.0	230.5	213.8	16.73	13.780		
4,400.0	4,347.3	4,397.1	4,372.0	13.5	10.8	159.82	-212.2	352.5	236.7	219.5	17.14	13.811		
4,500.0	4,445.7	4,496.9	4,471.1	13.9	11.1	159.82	-218.1	363.0	242.8	225.3	17.54	13.841		
4,600.0	4,544.2	4,596.8	4,570.2	14.3	11.3	159.83	-224.1	373.4	249.0	231.0	17.95	13.869		
4,700.0	4,642.6	4,696.6	4,669.2	14.6	11.6	159.83	-230.1	383.9	255.1	236.8	18.36	13.896		
4,800.0	4,741.0	4,796.4	4,768.3	15.0	11.9	159.84	-236.0	394.4	261.3	242.5	18.77	13.922		
4,900.0	4,839.5	4,896.2	4,867.4	15.3	12.2	159.84	-242.0	404.9	267.4	248.2	19.17	13.946		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,996.0	4,966.5	15.7	12.4	159.84	-247.9	415.3	273.6	254.0	19.58	13.970		
5,100.0	5,036.3	5,095.8	5,065.6	16.0	12.7	159.85	-253.9	425.8	279.7	259.7	19.99	13.992		
5,200.0	5,134.8	5,195.6	5,164.6	16.4	13.0	159.85	-259.9	436.3	285.8	265.4	20.40	14.014		
5,300.0	5,233.2	5,295.4	5,263.7	16.7	13.3	159.85	-265.8	446.7	292.0	271.2	20.81	14.035		
5,400.0	5,331.7	5,395.2	5,362.8	17.1	13.5	159.85	-271.8	457.2	298.1	276.9	21.21	14.055		
5,500.0	5,430.1	5,495.1	5,461.9	17.5	13.8	159.86	-277.8	467.7	304.3	282.7	21.62	14.074		
5,600.0	5,528.5	5,594.9	5,561.0	17.8	14.1	159.86	-283.7	478.2	310.4	288.4	22.03	14.092		
5,700.0	5,627.0	5,694.7	5,660.1	18.2	14.4	159.86	-289.7	488.6	316.6	294.1	22.44	14.110		
5,800.0	5,725.4	5,794.5	5,759.1	18.5	14.6	159.86	-295.6	499.1	322.7	299.9	22.84	14.127		
5,900.0	5,823.8	5,894.3	5,858.2	18.9	14.9	159.87	-301.6	509.6	328.9	305.6	23.25	14.143		
6,000.0	5,922.3	5,994.1	5,957.3	19.2	15.2	159.87	-307.6	520.1	335.0	311.4	23.66	14.159		
6,100.0	6,020.7	6,093.9	6,056.4	19.6	15.4	159.87	-313.5	530.5	341.2	317.1	24.07	14.175		
6,200.0	6,119.2	6,193.7	6,155.5	20.0	15.7	159.87	-319.5	541.0	347.3	322.8	24.48	14.189		
6,300.0	6,217.6	6,293.5	6,254.5	20.3	16.0	159.88	-325.4	551.5	353.4	328.6	24.88	14.204		
6,400.0	6,316.0	6,393.4	6,353.6	20.7	16.3	159.88	-331.4	562.0	359.6	334.3	25.29	14.218		
6,500.0	6,414.5	6,493.2	6,452.7	21.0	16.5	159.88	-337.4	572.4	365.7	340.0	25.70	14.231		
6,600.0	6,512.9	6,593.0	6,551.8	21.4	16.8	159.88	-343.3	582.9	371.9	345.8	26.11	14.244		
6,700.0	6,611.3	6,692.8	6,650.9	21.7	17.1	159.88	-349.3	593.4	378.0	351.5	26.52	14.257		
6,800.0	6,709.8	6,792.6	6,750.0	22.1	17.4	159.89	-355.2	603.9	384.2	357.3	26.92	14.269		
6,843.8	6,752.9	6,836.5	6,793.6	22.3	17.5	160.13	-356.2	608.5	386.9	359.8	27.02	14.318		
6,850.0	6,759.0	6,842.7	6,799.7	22.3	17.5	162.90	-356.2	609.1	387.2	360.2	27.02	14.329		
6,900.0	6,808.3	6,892.5	6,849.2	22.4	17.6	-173.17	-353.6	614.4	390.3	363.3	27.02	14.445		
6,950.0	6,857.5	6,942.1	6,898.1	22.6	17.6	-151.26	-347.6	619.5	393.5	366.5	26.97	14.458		
7,000.0	6,906.4	6,991.4	6,946.3	22.7	17.7	-135.30	-338.3	624.6	396.6	369.7	26.89	14.751		
7,050.0	6,954.8	7,040.5	6,993.5	22.8	17.7	-124.49	-325.7	629.6	399.8	373.0	26.77	14.933		
7,100.0	7,002.3	7,089.5	7,039.6	22.9	17.7	-117.03	-310.0	634.5	403.0	376.4	26.64	15.127		
7,150.0	7,048.9	7,138.2	7,084.3	23.0	17.7	-111.67	-291.2	639.2	406.2	379.7	26.50	15.327		
7,200.0	7,094.2	7,186.7	7,127.4	23.1	17.7	-107.63	-269.6	643.8	409.3	382.9	26.36	15.527		
7,250.0	7,138.1	7,235.1	7,168.9	23.1	17.7	-104.47	-245.1	648.2	412.3	386.1	26.23	15.720		
7,300.0	7,180.2	7,283.2	7,208.5	23.2	17.7	-101.94	-218.0	652.3	415.3	389.2	26.12	15.898		
7,350.0	7,220.5	7,331.3	7,246.0	23.3	17.8	-99.85	-188.3	656.3	418.2	392.2	26.05	16.055		
7,400.0	7,258.7	7,379.1	7,281.4	23.3	17.8	-98.11	-156.3	660.0	421.0	395.0	26.01	16.183		
7,450.0	7,294.7	7,426.9	7,314.5	23.4	17.8	-96.63	-122.1	663.5	423.7	397.6	26.03	16.276		
7,500.0	7,328.2	7,474.5	7,345.2	23.5	17.8	-95.37	-85.9	666.8	426.2	400.1	26.10	16.328		
7,550.0	7,359.1	7,522.0	7,373.4	23.5	17.9	-94.29	-47.7	669.8	428.6	402.3	26.24	16.332		
7,600.0	7,387.2	7,569.4	7,398.9	23.6	18.0	-93.37	-7.9	672.5	430.8	404.3	26.43	16.297		
7,650.0	7,412.5	7,616.7	7,421.7	23.8	18.1	-92.58	33.5	674.9	432.8	406.1	26.71	16.202		
7,700.0	7,434.7	7,663.9	7,441.7	23.9	18.2	-91.91	76.2	677.0	434.6	407.6	27.06	16.061		
7,750.0	7,453.9	7,711.0	7,458.9	24.1	18.4	-91.36	120.0	678.8	436.3	408.8	27.48	15.873		
7,800.0	7,469.8	7,758.1	7,473.1	24.2	18.6	-90.90	164.9	680.3	437.7	409.7	27.98	15.644		
7,850.0	7,482.4	7,805.1	7,484.3	24.4	18.8	-90.54	210.5	681.5	438.9	410.3	28.54	15.376		
7,900.0	7,491.6	7,852.1	7,492.6	24.7	19.1	-90.27	256.8	682.4	439.9	410.7	29.18	15.076		
7,950.0	7,497.5	7,900.0	7,497.9	24.9	19.4	-90.10	304.3	682.9	440.6	410.7	29.90	14.735		
8,000.0	7,499.9	7,946.1	7,499.9	25.2	19.7	-90.01	350.4	683.1	441.1	410.5	30.63	14.404		
8,010.3	7,500.0	7,955.8	7,500.0	25.2	19.7	-90.00	360.1	683.2	441.2	410.4	30.79	14.331		
8,100.0	7,500.0	8,045.5	7,500.0	25.8	20.4	-90.00	449.7	683.2	441.8	409.3	32.56	13.572		
8,200.0	7,500.0	8,145.5	7,500.0	26.5	21.3	-90.00	549.7	683.2	442.5	407.8	34.74	12.738		
8,300.0	7,500.0	8,245.5	7,500.0	27.3	22.3	-90.00	649.7	683.2	443.2	406.1	37.13	11.937		
8,400.0	7,500.0	8,345.5	7,500.0	28.2	23.4	-90.00	749.7	683.2	443.9	404.2	39.68	11.186		
8,500.0	7,500.0	8,445.4	7,500.0	29.1	24.5	-90.00	849.7	683.2	444.6	402.2	42.38	10.492		
8,600.0	7,500.0	8,545.4	7,500.0	30.2	25.7	-90.00	949.7	683.2	445.3	400.1	45.18	9.856		
8,700.0	7,500.0	8,645.4	7,500.0	31.3	27.0	-90.00	1,049.7	683.2	446.0	397.9	48.08	9.277		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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		
8,800.0	7,500.0	8,745.4	7,500.0	32.4	28.3	-90.00	1,149.7	683.2	446.7	395.7	51.05	8.750		
8,900.0	7,500.0	8,845.4	7,500.0	33.6	29.7	-90.00	1,249.7	683.2	447.4	393.3	54.09	8.272		
9,000.0	7,500.0	8,945.4	7,500.0	34.9	31.1	-90.00	1,349.7	683.2	448.1	390.9	57.18	7.837		
9,100.0	7,500.0	9,045.4	7,500.0	36.2	32.6	-90.00	1,449.7	683.2	448.8	388.5	60.32	7.441		
9,200.0	7,500.0	9,145.4	7,500.0	37.5	34.1	-90.00	1,549.7	683.2	449.5	386.0	63.49	7.079		
9,300.0	7,500.0	9,245.4	7,500.0	38.9	35.6	-90.00	1,649.7	683.2	450.2	383.5	66.70	6.749		
9,400.0	7,500.0	9,345.4	7,500.0	40.3	37.1	-90.00	1,749.7	683.2	450.9	381.0	69.94	6.447		
9,500.0	7,500.0	9,445.4	7,500.0	41.7	38.6	-90.00	1,849.7	683.2	451.6	378.4	73.21	6.169		
9,600.0	7,500.0	9,545.4	7,500.0	43.2	40.2	-90.00	1,949.7	683.2	452.3	375.8	76.49	5.913		
9,700.0	7,500.0	9,645.4	7,500.0	44.7	41.8	-90.00	2,049.7	683.2	453.0	373.2	79.79	5.677		
9,800.0	7,500.0	9,745.4	7,500.0	46.2	43.3	-90.00	2,149.7	683.2	453.7	370.6	83.11	5.459		
9,900.0	7,500.0	9,845.4	7,500.0	47.7	44.9	-90.00	2,249.7	683.2	454.4	367.9	86.45	5.256		
10,000.0	7,500.0	9,945.4	7,500.0	49.2	46.6	-90.00	2,349.7	683.2	455.1	365.3	89.80	5.068		
10,100.0	7,500.0	10,045.4	7,500.0	50.7	48.2	-90.00	2,449.7	683.2	455.8	362.6	93.16	4.893		
10,200.0	7,500.0	10,145.4	7,500.0	52.3	49.8	-90.00	2,549.7	683.2	456.5	360.0	96.53	4.729		
10,250.3	7,500.0	10,195.7	7,500.0	53.1	50.6	-90.00	2,600.0	683.2	456.8	358.6	98.23	4.651		
10,300.0	7,500.0	10,245.4	7,500.0	53.9	51.4	-90.00	2,649.7	683.2	457.4	357.5	99.91	4.578		
10,400.0	7,500.0	10,345.4	7,500.0	55.5	53.1	-90.00	2,749.7	683.2	459.8	356.5	103.30	4.452		
10,498.8	7,500.0	10,444.1	7,500.0	57.1	54.7	-90.00	2,848.4	683.2	464.0	357.3	106.65	4.350		
10,500.0	7,500.0	10,445.3	7,500.0	57.1	54.7	-90.00	2,849.6	683.2	464.0	357.3	106.69	4.349		
10,600.0	7,500.0	10,545.2	7,500.0	58.7	56.4	-90.00	2,949.4	683.2	469.1	359.0	110.09	4.261		
10,700.0	7,500.0	10,645.0	7,500.0	60.3	58.1	-90.00	3,049.3	683.2	474.1	360.6	113.50	4.177		
10,800.0	7,500.0	10,744.9	7,500.0	62.0	59.7	-90.00	3,149.2	683.2	479.1	362.2	116.91	4.098		
10,900.0	7,500.0	10,844.8	7,500.0	63.6	61.4	-90.00	3,249.1	683.2	484.2	363.8	120.33	4.024		
11,000.0	7,500.0	10,944.6	7,500.0	65.3	63.1	-90.00	3,348.9	683.2	489.2	365.4	123.75	3.953		
11,100.0	7,500.0	11,044.5	7,500.0	66.9	64.8	-90.00	3,448.8	683.2	494.2	367.0	127.18	3.886		
11,200.0	7,500.0	11,144.4	7,500.0	68.6	66.4	-90.00	3,548.7	683.2	499.3	368.7	130.61	3.823		
11,300.0	7,500.0	11,244.3	7,500.0	70.2	68.1	-90.00	3,648.5	683.2	504.3	370.2	134.04	3.762		
11,400.0	7,500.0	11,344.1	7,500.0	71.9	69.8	-90.00	3,748.4	683.2	509.3	371.8	137.48	3.705		
11,500.0	7,500.0	11,462.4	7,500.0	73.6	71.8	-90.00	3,866.6	685.2	512.6	370.3	142.31	3.602		
11,600.0	7,500.0	11,581.0	7,500.0	75.3	73.9	-90.00	3,985.1	691.7	512.2	365.2	147.00	3.484		
11,700.0	7,500.0	11,699.5	7,500.0	76.9	75.9	-90.00	4,103.1	702.3	508.2	356.7	151.52	3.354		
11,800.0	7,500.0	11,817.5	7,500.0	78.6	78.0	-90.00	4,220.1	717.2	500.6	344.8	155.83	3.213		
11,887.0	7,500.0	11,857.5	7,500.0	80.1	78.7	-90.00	4,259.7	723.1	494.5	338.3	156.20	3.166 SF		
11,907.9	7,500.0	11,857.5	7,500.0	80.4	78.7	-90.00	4,259.7	723.1	494.9	339.6	155.33	3.186		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	-90.38	-0.1	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-90.38	-0.1	-10.1	10.1	9.8	0.30	33.948		
200.0	200.0	200.0	200.0	0.3	0.3	-90.38	-0.1	-10.1	10.1	9.4	0.65	15.598		
300.0	300.0	300.0	300.0	0.5	0.5	-90.38	-0.1	-10.1	10.1	9.1	0.99	10.125		
350.0	350.0	350.0	350.0	0.6	0.6	-90.38	-0.1	-10.1	10.1	8.9	1.17	8.614	CC, ES	
400.0	400.0	400.0	400.0	0.7	0.7	160.41	-0.1	-10.1	10.3	8.9	1.34	7.648		
500.0	500.0	500.2	500.2	0.8	0.8	161.59	-0.4	-9.3	11.1	9.4	1.69	6.570		
600.0	599.9	600.3	600.3	1.0	1.0	161.98	-1.5	-6.9	12.0	10.0	2.04	5.883		
700.0	699.8	700.5	700.4	1.2	1.2	161.74	-3.3	-2.9	13.0	10.6	2.40	5.412		
800.0	799.5	800.8	800.4	1.4	1.4	161.01	-5.8	2.7	14.0	11.2	2.75	5.072		
900.0	899.2	901.0	900.3	1.6	1.6	159.88	-9.0	9.9	15.0	11.9	3.11	4.817		
1,000.0	998.6	1,001.2	1,000.1	1.9	1.8	158.44	-12.9	18.7	16.1	12.6	3.48	4.619		
1,100.0	1,097.9	1,101.5	1,099.7	2.1	2.1	156.77	-17.6	29.1	17.2	13.4	3.86	4.460		
1,200.0	1,196.9	1,201.7	1,199.1	2.4	2.3	154.93	-22.9	41.0	18.5	14.2	4.27	4.326		
1,300.0	1,295.7	1,301.8	1,298.2	2.7	2.6	153.50	-28.8	54.3	20.1	15.4	4.69	4.280		
1,364.2	1,358.9	1,366.0	1,361.6	2.9	2.8	153.70	-32.7	62.8	21.9	16.9	4.95	4.415		
1,400.0	1,394.2	1,401.8	1,397.0	3.0	2.9	154.02	-34.8	67.6	23.0	18.0	5.10	4.523		
1,500.0	1,492.6	1,501.7	1,495.9	3.4	3.2	154.77	-40.7	80.8	26.4	20.9	5.50	4.793		
1,600.0	1,591.0	1,601.7	1,594.8	3.7	3.5	155.35	-46.7	94.1	29.7	23.8	5.90	5.026		
1,700.0	1,689.5	1,701.6	1,693.7	4.0	3.8	155.82	-52.6	107.4	33.0	26.7	6.31	5.229		
1,800.0	1,787.9	1,801.6	1,792.6	4.4	4.1	156.19	-58.6	120.7	36.3	29.6	6.71	5.407		
1,900.0	1,886.3	1,901.5	1,891.4	4.7	4.4	156.51	-64.5	134.0	39.6	32.5	7.12	5.565		
2,000.0	1,984.8	2,001.5	1,990.3	5.1	4.7	156.78	-70.5	147.3	42.9	35.4	7.52	5.705		
2,100.0	2,083.2	2,101.4	2,089.2	5.4	5.0	157.01	-76.4	160.6	46.2	38.3	7.93	5.831		
2,200.0	2,181.7	2,201.3	2,188.1	5.8	5.3	157.20	-82.4	173.9	49.6	41.2	8.34	5.945		
2,300.0	2,280.1	2,301.3	2,287.0	6.1	5.6	157.38	-88.3	187.2	52.9	44.1	8.74	6.048		
2,400.0	2,378.5	2,401.2	2,385.8	6.5	5.9	157.53	-94.3	200.5	56.2	47.0	9.15	6.141		
2,500.0	2,477.0	2,501.2	2,484.7	6.8	6.2	157.67	-100.2	213.8	59.5	50.0	9.56	6.227		
2,600.0	2,575.4	2,601.1	2,583.6	7.2	6.5	157.79	-106.2	227.1	62.8	52.9	9.97	6.305		
2,700.0	2,673.8	2,701.1	2,682.5	7.5	6.8	157.90	-112.1	240.4	66.2	55.8	10.37	6.377		
2,800.0	2,772.3	2,801.0	2,781.3	7.9	7.1	157.99	-118.0	253.7	69.5	58.7	10.78	6.444		
2,900.0	2,870.7	2,901.0	2,880.2	8.2	7.4	158.08	-124.0	267.0	72.8	61.6	11.19	6.506		
3,000.0	2,969.2	3,000.9	2,979.1	8.6	7.7	158.17	-129.9	280.2	76.1	64.5	11.60	6.563		
3,100.0	3,067.6	3,100.8	3,078.0	8.9	8.0	158.24	-135.9	293.5	79.4	67.4	12.01	6.617		
3,200.0	3,166.0	3,200.8	3,176.9	9.3	8.4	158.31	-141.8	306.8	82.8	70.3	12.41	6.667		
3,300.0	3,264.5	3,300.7	3,275.7	9.6	8.7	158.37	-147.8	320.1	86.1	73.3	12.82	6.713		
3,400.0	3,362.9	3,400.7	3,374.6	10.0	9.0	158.43	-153.7	333.4	89.4	76.2	13.23	6.757		
3,500.0	3,461.3	3,500.6	3,473.5	10.3	9.3	158.49	-159.7	346.7	92.7	79.1	13.64	6.798		
3,600.0	3,559.8	3,600.6	3,572.4	10.7	9.6	158.54	-165.6	360.0	96.0	82.0	14.05	6.837		
3,700.0	3,658.2	3,700.5	3,671.2	11.1	9.9	158.59	-171.6	373.3	99.4	84.9	14.46	6.873		
3,800.0	3,756.7	3,800.5	3,770.1	11.4	10.2	158.63	-177.5	386.6	102.7	87.8	14.87	6.908		
3,900.0	3,855.1	3,900.4	3,869.0	11.8	10.5	158.67	-183.5	399.9	106.0	90.7	15.27	6.940		
4,000.0	3,953.5	4,000.3	3,967.9	12.1	10.8	158.71	-189.4	413.2	109.3	93.6	15.68	6.971		
4,100.0	4,052.0	4,100.3	4,066.8	12.5	11.1	158.75	-195.4	426.5	112.6	96.6	16.09	7.001		
4,200.0	4,150.4	4,200.2	4,165.6	12.8	11.4	158.78	-201.3	439.8	116.0	99.5	16.50	7.028		
4,300.0	4,248.8	4,300.2	4,264.5	13.2	11.7	158.82	-207.2	453.1	119.3	102.4	16.91	7.055		
4,400.0	4,347.3	4,400.1	4,363.4	13.5	12.1	158.85	-213.2	466.4	122.6	105.3	17.32	7.080		
4,500.0	4,445.7	4,500.1	4,462.3	13.9	12.4	158.88	-219.1	479.6	125.9	108.2	17.73	7.104		
4,600.0	4,544.2	4,600.0	4,561.1	14.3	12.7	158.90	-225.1	492.9	129.3	111.1	18.14	7.127		
4,700.0	4,642.6	4,700.0	4,660.0	14.6	13.0	158.93	-231.0	506.2	132.6	114.0	18.54	7.149		
4,800.0	4,741.0	4,799.9	4,758.9	15.0	13.3	158.96	-237.0	519.5	135.9	116.9	18.95	7.170		
4,900.0	4,839.5	4,899.8	4,857.8	15.3	13.6	158.98	-242.9	532.8	139.2	119.9	19.36	7.190		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft						
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft					
Reference													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							
5,000.0	4,937.9	4,999.8	4,956.7	15.7	13.9	159.00	-248.9	546.1	142.5	122.8	19.77	7.209								
5,100.0	5,036.3	5,099.7	5,055.5	16.0	14.2	159.02	-254.8	559.4	145.9	125.7	20.18	7.228								
5,200.0	5,134.8	5,199.7	5,154.4	16.4	14.5	159.04	-260.8	572.7	149.2	128.6	20.59	7.246								
5,300.0	5,233.2	5,299.6	5,253.3	16.7	14.8	159.06	-266.7	586.0	152.5	131.5	21.00	7.263								
5,400.0	5,331.7	5,399.6	5,352.2	17.1	15.1	159.08	-272.7	599.3	155.8	134.4	21.41	7.279								
5,500.0	5,430.1	5,499.5	5,451.1	17.5	15.5	159.10	-278.6	612.6	159.2	137.3	21.82	7.295								
5,600.0	5,528.5	5,599.5	5,549.9	17.8	15.8	159.12	-284.6	625.9	162.5	140.2	22.23	7.310								
5,700.0	5,627.0	5,699.4	5,648.8	18.2	16.1	159.14	-290.5	639.2	165.8	143.2	22.64	7.325								
5,800.0	5,725.4	5,799.4	5,747.7	18.5	16.4	159.15	-296.4	652.5	169.1	146.1	23.05	7.339								
5,900.0	5,823.8	5,899.3	5,846.6	18.9	16.7	159.17	-302.4	665.8	172.4	149.0	23.45	7.352								
6,000.0	5,922.3	5,999.2	5,945.4	19.2	17.0	159.18	-308.3	679.0	175.8	151.9	23.86	7.365								
6,100.0	6,020.7	6,099.2	6,044.3	19.6	17.3	159.20	-314.3	692.3	179.1	154.8	24.27	7.378								
6,200.0	6,119.2	6,199.1	6,143.2	20.0	17.6	159.21	-320.2	705.6	182.4	157.7	24.68	7.390								
6,300.0	6,217.6	6,299.1	6,242.1	20.3	17.9	159.22	-326.2	718.9	185.7	160.6	25.09	7.402								
6,400.0	6,316.0	6,399.0	6,341.0	20.7	18.2	159.24	-332.1	732.2	189.1	163.6	25.50	7.414								
6,500.0	6,414.5	6,499.0	6,439.8	21.0	18.5	159.25	-338.1	745.5	192.4	166.5	25.91	7.425								
6,600.0	6,512.9	6,598.9	6,538.7	21.4	18.9	159.26	-344.0	758.8	195.7	169.4	26.32	7.435								
6,700.0	6,611.3	6,698.9	6,637.6	21.7	19.2	159.27	-350.0	772.1	199.0	172.3	26.73	7.446								
6,800.0	6,709.8	6,798.8	6,736.5	22.1	19.5	159.29	-355.9	785.4	202.3	175.2	27.14	7.456								
6,843.8	6,752.9	6,842.7	6,780.0	22.3	19.6	159.50	-357.8	791.2	203.8	176.5	27.25	7.479								
6,850.0	6,759.0	6,849.0	6,786.2	22.3	19.6	162.26	-357.9	792.1	204.0	176.7	27.25	7.486								
6,900.0	6,808.3	6,899.1	6,835.8	22.4	19.7	-173.78	-356.4	798.7	205.6	178.4	27.20	7.559								
6,950.0	6,857.5	6,949.0	6,885.0	22.6	19.8	-151.84	-351.5	805.4	207.3	180.2	27.11	7.647								
7,000.0	6,906.4	6,998.8	6,933.6	22.7	19.9	-135.85	-343.1	811.9	209.1	182.1	26.99	7.747								
7,050.0	6,954.8	7,048.4	6,981.4	22.8	20.0	-125.01	-331.4	818.3	210.8	184.0	26.84	7.857								
7,100.0	7,002.3	7,097.9	7,028.1	22.9	20.0	-117.53	-316.4	824.6	212.6	185.9	26.67	7.972								
7,150.0	7,048.9	7,147.2	7,073.6	23.0	20.1	-112.13	-298.3	830.7	214.4	187.9	26.50	8.090								
7,200.0	7,094.2	7,196.4	7,117.6	23.1	20.1	-108.06	-277.1	836.6	216.2	189.8	26.35	8.206								
7,250.0	7,138.1	7,245.4	7,159.9	23.1	20.1	-104.88	-253.0	842.3	218.0	191.8	26.21	8.317								
7,300.0	7,180.2	7,294.4	7,200.4	23.2	20.2	-102.32	-226.2	847.8	219.7	193.6	26.10	8.419								
7,350.0	7,220.5	7,343.2	7,238.9	23.3	20.2	-100.20	-196.6	852.9	221.4	195.4	26.03	8.507								
7,400.0	7,258.7	7,391.8	7,275.2	23.3	20.2	-98.43	-164.6	857.8	223.1	197.1	26.00	8.579								
7,450.0	7,294.7	7,440.4	7,309.2	23.4	20.3	-96.93	-130.2	862.4	224.7	198.7	26.04	8.630								
7,500.0	7,328.2	7,488.9	7,340.8	23.5	20.3	-95.64	-93.7	866.6	226.2	200.1	26.13	8.659								
7,550.0	7,359.1	7,537.3	7,369.8	23.5	20.4	-94.54	-55.1	870.5	227.7	201.4	26.29	8.663								
7,600.0	7,387.2	7,585.6	7,396.1	23.6	20.5	-93.59	-14.8	874.1	229.1	202.6	26.50	8.643								
7,650.0	7,412.5	7,633.8	7,419.6	23.8	20.6	-92.77	27.2	877.2	230.4	203.6	26.80	8.598								
7,700.0	7,434.7	7,681.9	7,440.2	23.9	20.7	-92.08	70.6	880.0	231.6	204.4	27.16	8.527								
7,750.0	7,453.9	7,730.0	7,457.9	24.1	20.9	-91.49	115.2	882.4	232.6	205.1	27.59	8.433								
7,800.0	7,469.8	7,778.1	7,472.5	24.2	21.1	-91.01	160.9	884.4	233.6	205.5	28.08	8.318								
7,850.0	7,482.4	7,826.1	7,484.1	24.4	21.3	-90.63	207.5	885.9	234.5	205.8	28.64	8.186								
7,900.0	7,491.6	7,874.0	7,492.5	24.7	21.5	-90.33	254.6	887.0	235.2	205.9	29.26	8.038								
7,950.0	7,497.5	7,921.9	7,497.8	24.9	21.8	-90.13	302.3	887.8	235.8	205.8	29.93	7.877								
8,000.0	7,499.9	7,969.8	7,500.0	25.2	22.0	-90.01	350.1	888.0	236.2	205.6	30.65	7.707								
8,010.3	7,500.0	7,979.8	7,500.0	25.2	22.1	-90.00	360.1	888.0	236.3	205.5	30.81	7.670								
8,100.0	7,500.0	8,069.5	7,500.0	25.8	22.7	-90.00	449.7	888.0	236.9	204.4	32.58	7.273								
8,200.0	7,500.0	8,169.5	7,500.0	26.5	23.5	-90.00	549.7	888.0	237.6	202.9	34.76	6.836								
8,300.0	7,500.0	8,269.5	7,500.0	27.3	24.4	-90.00	649.7	888.0	238.3	201.2	37.15	6.415								
8,400.0	7,500.0	8,369.5	7,500.0	28.2	25.4	-90.00	749.7	888.0	239.0	199.3	39.71	6.020								
8,500.0	7,500.0	8,469.5	7,500.0	29.1	26.4	-90.00	849.7	888.0	239.7	197.3	42.40	5.655								
8,600.0	7,500.0	8,569.4	7,500.0	30.2	27.6	-90.00	949.7	888.0	240.4	195.2	45.20	5.319								
8,700.0	7,500.0	8,669.4	7,500.0	31.3	28.8	-90.00	1,049.7	888.0	241.1	193.0	48.10	5.013								

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
8,800.0	7,500.0	8,769.4	7,500.0	32.4	30.0	-90.00	1,149.7	888.0	241.8	190.8	51.07	4.735		
8,900.0	7,500.0	8,869.4	7,500.0	33.6	31.3	-90.00	1,249.7	888.0	242.5	188.4	54.11	4.482		
9,000.0	7,500.0	8,969.4	7,500.0	34.9	32.7	-90.00	1,349.7	888.0	243.2	186.0	57.20	4.252		
9,100.0	7,500.0	9,069.4	7,500.0	36.2	34.1	-90.00	1,449.7	888.0	243.9	183.6	60.34	4.043		
9,200.0	7,500.0	9,169.4	7,500.0	37.5	35.5	-90.00	1,549.7	888.0	244.6	181.1	63.51	3.852		
9,300.0	7,500.0	9,269.4	7,500.0	38.9	36.9	-90.00	1,649.7	888.0	245.3	178.6	66.72	3.677		
9,400.0	7,500.0	9,369.4	7,500.0	40.3	38.4	-90.00	1,749.7	888.0	246.0	176.1	69.96	3.517		
9,500.0	7,500.0	9,469.4	7,500.0	41.7	39.9	-90.00	1,849.7	888.0	246.7	173.5	73.22	3.369		
9,600.0	7,500.0	9,569.4	7,500.0	43.2	41.4	-90.00	1,949.7	888.0	247.4	170.9	76.50	3.234		
9,700.0	7,500.0	9,669.4	7,500.0	44.7	42.9	-90.00	2,049.7	888.0	248.1	168.3	79.81	3.109		
9,800.0	7,500.0	9,769.4	7,500.0	46.2	44.5	-90.00	2,149.7	888.0	248.8	165.7	83.13	2.993		
9,900.0	7,500.0	9,869.4	7,500.0	47.7	46.0	-90.00	2,249.7	888.0	249.5	163.0	86.46	2.886		
10,000.0	7,500.0	9,969.4	7,500.0	49.2	47.6	-90.00	2,349.7	888.0	250.2	160.4	89.81	2.786		
10,100.0	7,500.0	10,069.4	7,500.0	50.7	49.2	-90.00	2,449.7	888.0	250.9	157.7	93.17	2.693		
10,200.0	7,500.0	10,169.4	7,500.0	52.3	50.8	-90.00	2,549.7	888.0	251.6	155.1	96.54	2.606		
10,250.3	7,500.0	10,219.7	7,500.0	53.1	51.6	-90.00	2,600.0	888.0	252.0	153.7	98.24	2.565		
10,300.0	7,500.0	10,269.4	7,500.0	53.9	52.4	-90.00	2,649.7	888.0	252.5	152.6	99.92	2.527		
10,400.0	7,500.0	10,369.4	7,500.0	55.5	54.0	-90.00	2,749.7	888.0	255.0	151.6	103.31	2.468		
10,498.8	7,500.0	10,468.1	7,500.0	57.1	55.6	-90.00	2,848.4	888.0	259.1	152.4	106.66	2.429		
10,500.0	7,500.0	10,469.3	7,500.0	57.1	55.6	-90.00	2,849.6	888.0	259.1	152.4	106.70	2.429		
10,600.0	7,500.0	10,569.2	7,500.0	58.7	57.3	-90.00	2,949.4	888.0	264.2	154.1	110.10	2.399		
10,700.0	7,500.0	10,669.0	7,500.0	60.3	58.9	-90.00	3,049.3	888.0	269.2	155.7	113.51	2.372		
10,800.0	7,500.0	10,768.9	7,500.0	62.0	60.5	-90.00	3,149.2	888.0	274.2	157.3	116.92	2.345		
10,900.0	7,500.0	10,868.8	7,500.0	63.6	62.2	-90.00	3,249.1	888.0	279.3	158.9	120.34	2.321		
11,000.0	7,500.0	10,968.7	7,500.0	65.3	63.9	-90.00	3,348.9	888.0	284.3	160.5	123.76	2.297		
11,100.0	7,500.0	11,068.5	7,500.0	66.9	65.5	-90.00	3,448.8	888.0	289.3	162.1	127.19	2.275		
11,200.0	7,500.0	11,168.4	7,500.0	68.6	67.2	-90.00	3,548.7	888.0	294.4	163.8	130.62	2.254		
11,300.0	7,500.0	11,268.3	7,500.0	70.2	68.9	-90.00	3,648.5	888.0	299.4	165.3	134.05	2.233		
11,400.0	7,500.0	11,368.1	7,500.0	71.9	70.5	-90.00	3,748.4	888.0	304.4	166.9	137.49	2.214		
11,500.0	7,500.0	11,468.0	7,500.0	73.6	72.2	-90.00	3,848.3	888.0	309.5	168.5	140.94	2.196		
11,600.0	7,500.0	11,567.9	7,500.0	75.3	73.9	-90.00	3,948.2	888.0	314.5	170.1	144.38	2.178		
11,700.0	7,500.0	11,667.8	7,500.0	76.9	75.6	-90.00	4,048.0	888.0	319.5	171.7	147.83	2.162		
11,800.0	7,500.0	11,767.6	7,500.0	78.6	77.3	-90.00	4,147.9	888.0	324.6	173.3	151.28	2.146		
11,907.9	7,500.0	11,875.4	7,500.0	80.4	79.1	-90.00	4,255.6	888.0	330.0	175.0	155.00	2.129 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	92.30	-0.4	9.8	9.8					
100.0	100.0	100.0	100.0	0.1	0.1	92.30	-0.4	9.8	9.8	9.5	0.30	33.031		
200.0	200.0	200.0	200.0	0.3	0.3	92.30	-0.4	9.8	9.8	9.2	0.65	15.176		
300.0	300.0	300.0	300.0	0.5	0.5	92.30	-0.4	9.8	9.8	8.8	0.99	9.851	CC, ES	
350.0	350.0	349.9	349.9	0.6	0.6	92.61	-0.5	10.0	10.0	8.8	1.17	8.563		
400.0	400.0	399.8	399.8	0.7	0.7	-16.50	-0.6	10.6	10.4	9.1	1.34	7.769		
500.0	500.0	499.6	499.6	0.8	0.9	-15.96	-1.4	13.1	11.3	9.6	1.69	6.682		
600.0	599.9	599.4	599.3	1.0	1.0	-15.92	-2.6	17.3	12.2	10.2	2.04	5.976		
700.0	699.8	699.2	698.9	1.2	1.2	-16.31	-4.3	23.1	13.1	10.7	2.39	5.482		
800.0	799.5	799.0	798.4	1.4	1.4	-17.02	-6.6	30.6	14.0	11.3	2.74	5.118		
900.0	899.2	898.7	898.6	1.6	1.7	-17.99	-9.3	39.8	15.0	11.9	3.10	4.839		
1,000.0	998.6	998.5	996.7	1.9	1.9	-19.18	-12.5	50.6	16.0	12.5	3.46	4.617		
1,100.0	1,097.9	1,098.2	1,095.6	2.1	2.2	-20.54	-16.1	63.0	17.0	13.2	3.83	4.435		
1,200.0	1,196.9	1,197.9	1,194.2	2.4	2.5	-22.03	-20.3	77.1	18.1	13.8	4.22	4.280		
1,300.0	1,295.7	1,297.6	1,292.5	2.7	2.8	-23.62	-25.0	92.9	19.2	14.5	4.62	4.142		
1,364.2	1,358.9	1,361.5	1,355.5	2.9	3.0	-24.68	-28.2	103.8	19.9	15.0	4.90	4.060		
1,400.0	1,394.2	1,397.2	1,390.6	3.0	3.1	-25.15	-30.1	110.2	20.4	15.3	5.05	4.039		
1,500.0	1,492.6	1,496.9	1,488.2	3.4	3.5	-25.19	-35.7	129.2	22.9	17.5	5.46	4.198		
1,600.0	1,591.0	1,596.7	1,585.7	3.7	3.9	-24.16	-41.7	149.5	26.7	20.8	5.85	4.559		
1,700.0	1,689.5	1,696.6	1,683.4	4.0	4.3	-23.32	-47.7	169.9	30.5	24.3	6.25	4.888		
1,800.0	1,787.9	1,796.5	1,781.0	4.4	4.7	-22.68	-53.7	190.2	34.4	27.7	6.64	5.177		
1,900.0	1,886.3	1,896.5	1,878.7	4.7	5.1	-22.16	-59.8	210.6	38.2	31.2	7.04	5.434		
2,000.0	1,984.8	1,996.4	1,976.3	5.1	5.5	-21.74	-65.8	231.0	42.1	34.7	7.43	5.664		
2,100.0	2,083.2	2,096.3	2,073.9	5.4	5.9	-21.39	-71.8	251.3	45.9	38.1	7.82	5.871		
2,200.0	2,181.7	2,196.2	2,171.6	5.8	6.3	-21.10	-77.8	271.7	49.8	41.6	8.22	6.058		
2,300.0	2,280.1	2,296.2	2,269.2	6.1	6.7	-20.84	-83.9	292.1	53.7	45.0	8.62	6.227		
2,400.0	2,378.5	2,396.1	2,366.9	6.5	7.1	-20.62	-89.9	312.4	57.5	48.5	9.01	6.382		
2,500.0	2,477.0	2,496.0	2,464.5	6.8	7.5	-20.43	-95.9	332.8	61.4	52.0	9.41	6.523		
2,600.0	2,575.4	2,595.9	2,562.2	7.2	7.9	-20.26	-101.9	353.2	65.2	55.4	9.80	6.653		
2,700.0	2,673.8	2,695.9	2,659.8	7.5	8.3	-20.11	-107.9	373.5	69.1	58.9	10.20	6.773		
2,800.0	2,772.3	2,795.8	2,757.4	7.9	8.8	-19.98	-114.0	393.9	72.9	62.4	10.60	6.884		
2,900.0	2,870.7	2,895.7	2,855.1	8.2	9.2	-19.86	-120.0	414.3	76.8	65.8	10.99	6.987		
3,000.0	2,969.2	2,995.6	2,952.7	8.6	9.6	-19.75	-126.0	434.6	80.7	69.3	11.39	7.083		
3,100.0	3,067.6	3,095.6	3,050.4	8.9	10.0	-19.65	-132.0	455.0	84.5	72.7	11.79	7.172		
3,200.0	3,166.0	3,195.5	3,148.0	9.3	10.4	-19.56	-138.1	475.4	88.4	76.2	12.18	7.255		
3,300.0	3,264.5	3,295.4	3,245.7	9.6	10.8	-19.48	-144.1	495.7	92.3	79.7	12.58	7.333		
3,400.0	3,362.9	3,395.3	3,343.3	10.0	11.2	-19.40	-150.1	516.1	96.1	83.1	12.98	7.407		
3,500.0	3,461.3	3,495.3	3,440.9	10.3	11.6	-19.33	-156.1	536.4	100.0	86.6	13.37	7.475		
3,600.0	3,559.8	3,595.2	3,538.6	10.7	12.1	-19.26	-162.1	556.8	103.8	90.1	13.77	7.540		
3,700.0	3,658.2	3,695.1	3,636.2	11.1	12.5	-19.20	-168.2	577.2	107.7	93.5	14.17	7.602		
3,800.0	3,756.7	3,795.0	3,733.9	11.4	12.9	-19.15	-174.2	597.5	111.6	97.0	14.57	7.659		
3,900.0	3,855.1	3,895.0	3,831.5	11.8	13.3	-19.09	-180.2	617.9	115.4	100.5	14.96	7.714		
4,000.0	3,953.5	3,994.9	3,929.2	12.1	13.7	-19.05	-186.2	638.3	119.3	103.9	15.36	7.766		
4,100.0	4,052.0	4,094.8	4,026.8	12.5	14.1	-19.00	-192.3	658.6	123.1	107.4	15.76	7.816		
4,200.0	4,150.4	4,194.7	4,124.4	12.8	14.5	-18.96	-198.3	679.0	127.0	110.9	16.15	7.862		
4,300.0	4,248.8	4,294.7	4,222.1	13.2	15.0	-18.92	-204.3	699.4	130.9	114.3	16.55	7.907		
4,400.0	4,347.3	4,394.6	4,319.7	13.5	15.4	-18.88	-210.3	719.7	134.7	117.8	16.95	7.950		
4,500.0	4,445.7	4,494.5	4,417.4	13.9	15.8	-18.84	-216.3	740.1	138.6	121.3	17.35	7.990		
4,600.0	4,544.2	4,594.4	4,515.0	14.3	16.2	-18.81	-222.4	760.5	142.5	124.7	17.74	8.029		
4,700.0	4,642.6	4,694.4	4,612.7	14.6	16.6	-18.77	-228.4	780.8	146.3	128.2	18.14	8.066		
4,800.0	4,741.0	4,794.3	4,710.3	15.0	17.0	-18.74	-234.4	801.2	150.2	131.6	18.54	8.101		
4,900.0	4,839.5	4,894.2	4,807.9	15.3	17.5	-18.71	-240.4	821.6	154.0	135.1	18.94	8.135		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
5,000.0	4,937.9	4,994.1	4,905.6	15.7	17.9	-18.69	-246.5	841.9	157.9	138.6	19.33	8.168		
5,100.0	5,036.3	5,094.1	5,003.2	16.0	18.3	-18.66	-252.5	862.3	161.8	142.0	19.73	8.199		
5,200.0	5,134.8	5,194.0	5,100.9	16.4	18.7	-18.63	-258.5	882.7	165.6	145.5	20.13	8.229		
5,300.0	5,233.2	5,293.9	5,198.5	16.7	19.1	-18.61	-264.5	903.0	169.5	149.0	20.53	8.258		
5,400.0	5,331.7	5,393.8	5,296.1	17.1	19.5	-18.59	-270.5	923.4	173.4	152.4	20.92	8.285		
5,500.0	5,430.1	5,493.8	5,393.8	17.5	19.9	-18.57	-276.6	943.8	177.2	155.9	21.32	8.312		
5,600.0	5,528.5	5,593.7	5,491.4	17.8	20.4	-18.54	-282.6	964.1	181.1	159.4	21.72	8.338		
5,700.0	5,627.0	5,693.6	5,589.1	18.2	20.8	-18.52	-288.6	984.5	185.0	162.8	22.12	8.363		
5,800.0	5,725.4	5,793.5	5,686.7	18.5	21.2	-18.50	-294.6	1,004.9	188.8	166.3	22.51	8.387		
5,900.0	5,823.8	5,893.5	5,784.4	18.9	21.6	-18.49	-300.7	1,025.2	192.7	169.8	22.91	8.410		
6,000.0	5,922.3	5,993.4	5,882.0	19.2	22.0	-18.47	-306.7	1,045.6	196.5	173.2	23.31	8.432		
6,100.0	6,020.7	6,093.3	5,979.6	19.6	22.4	-18.45	-312.7	1,065.9	200.4	176.7	23.71	8.453		
6,200.0	6,119.2	6,193.2	6,077.3	20.0	22.9	-18.43	-318.7	1,086.3	204.3	180.2	24.10	8.474		
6,300.0	6,217.6	6,293.2	6,174.9	20.3	23.3	-18.42	-324.7	1,106.7	208.1	183.6	24.50	8.494		
6,400.0	6,316.0	6,393.1	6,272.6	20.7	23.7	-18.40	-330.8	1,127.0	212.0	187.1	24.90	8.514		
6,500.0	6,414.5	6,493.0	6,370.2	21.0	24.1	-18.39	-336.8	1,147.4	215.9	190.6	25.30	8.533		
6,600.0	6,512.9	6,592.9	6,467.9	21.4	24.5	-18.37	-342.8	1,167.8	219.7	194.0	25.70	8.551		
6,700.0	6,611.3	6,692.9	6,565.5	21.7	24.9	-18.36	-348.8	1,188.1	223.6	197.5	26.09	8.569		
6,800.0	6,709.8	6,792.8	6,663.1	22.1	25.4	-18.35	-354.8	1,208.5	227.4	201.0	26.49	8.586		
6,843.8	6,752.9	6,836.5	6,705.9	22.3	25.5	-18.34	-357.5	1,217.4	229.1	202.5	26.67	8.593		
6,850.0	6,759.0	6,842.8	6,712.0	22.3	25.6	-15.68	-357.9	1,218.7	229.4	202.7	26.69	8.595		
6,900.0	6,808.3	6,892.7	6,760.8	22.4	25.8	7.90	-360.9	1,228.9	231.3	204.7	26.69	8.667		
6,950.0	6,857.5	6,943.1	6,810.0	22.6	26.0	29.81	-361.8	1,239.1	233.4	206.8	26.55	8.789		
7,000.0	6,906.4	6,993.7	6,859.5	22.7	26.1	45.78	-359.2	1,249.5	235.4	209.0	26.39	8.918		
7,050.0	6,954.8	7,044.6	6,909.0	22.8	26.3	56.58	-353.0	1,259.8	237.4	211.2	26.23	9.051		
7,100.0	7,002.3	7,095.7	6,958.1	22.9	26.4	64.02	-343.2	1,270.0	239.4	213.4	26.08	9.182		
7,150.0	7,048.9	7,147.2	7,006.7	23.0	26.6	69.37	-329.7	1,280.2	241.4	215.5	25.94	9.307		
7,200.0	7,094.2	7,198.8	7,054.4	23.1	26.7	73.39	-312.7	1,290.1	243.4	217.6	25.84	9.420		
7,250.0	7,138.1	7,250.8	7,101.0	23.1	26.8	76.51	-292.0	1,299.8	245.3	219.5	25.78	9.517		
7,300.0	7,180.2	7,303.0	7,146.3	23.2	26.9	79.02	-267.8	1,309.3	247.2	221.4	25.76	9.596		
7,350.0	7,220.5	7,355.4	7,189.9	23.3	27.0	81.06	-240.2	1,318.4	248.9	223.1	25.79	9.651		
7,400.0	7,258.7	7,408.1	7,231.6	23.3	27.1	82.76	-209.2	1,327.1	250.6	224.7	25.88	9.683		
7,450.0	7,294.7	7,460.9	7,271.1	23.4	27.2	84.19	-175.1	1,335.3	252.1	226.1	26.02	9.690		
7,500.0	7,328.2	7,514.0	7,308.2	23.5	27.3	85.40	-137.9	1,343.0	253.5	227.3	26.22	9.671		
7,550.0	7,359.1	7,567.3	7,342.6	23.5	27.4	86.42	-97.9	1,350.2	254.8	228.4	26.47	9.628		
7,600.0	7,387.2	7,620.7	7,374.1	23.6	27.5	87.28	-55.2	1,356.8	256.0	229.2	26.78	9.560		
7,650.0	7,412.5	7,674.3	7,402.4	23.8	27.6	88.01	-10.2	1,362.7	256.9	229.9	27.09	9.484		
7,700.0	7,434.7	7,728.0	7,427.5	23.9	27.8	88.60	37.1	1,367.9	257.8	230.3	27.50	9.372		
7,750.0	7,453.9	7,781.9	7,449.0	24.1	27.9	89.09	86.2	1,372.4	258.4	230.4	27.94	9.247		
7,800.0	7,469.8	7,835.8	7,466.9	24.2	28.1	89.46	136.9	1,376.1	258.8	230.4	28.43	9.106		
7,850.0	7,482.4	7,889.7	7,481.0	24.4	28.3	89.74	188.9	1,379.1	259.1	230.2	28.95	8.951		
7,900.0	7,491.6	7,943.8	7,491.3	24.7	28.5	89.92	241.8	1,381.2	259.2	229.7	29.50	8.785		
7,950.0	7,497.5	7,997.8	7,497.6	24.9	28.7	90.01	295.4	1,382.6	259.1	229.0	30.10	8.607		
8,000.0	7,499.9	8,051.8	7,500.0	25.2	28.9	90.01	349.4	1,383.0	258.8	228.0	30.73	8.420		
8,010.3	7,500.0	8,062.4	7,500.0	25.2	29.0	90.00	360.1	1,383.0	258.7	227.8	30.90	8.372		
8,100.0	7,500.0	8,152.1	7,500.0	25.8	29.5	90.00	449.7	1,383.0	258.1	225.4	32.66	7.901		
8,200.0	7,500.0	8,252.1	7,500.0	26.5	30.1	90.00	549.7	1,383.0	257.4	222.5	34.84	7.386		
8,300.0	7,500.0	8,352.1	7,500.0	27.3	30.8	90.00	649.7	1,383.0	256.7	219.4	37.23	6.894		
8,400.0	7,500.0	8,452.1	7,500.0	28.2	31.5	90.00	749.7	1,383.0	256.0	216.2	39.78	6.435		
8,500.0	7,500.0	8,552.1	7,500.0	29.1	32.4	90.00	849.7	1,383.0	255.3	212.8	42.47	6.011		
8,600.0	7,500.0	8,652.1	7,500.0	30.2	33.3	90.00	949.7	1,383.0	254.6	209.3	45.27	5.624		
8,700.0	7,500.0	8,752.1	7,500.0	31.3	34.3	90.00	1,049.7	1,383.0	253.9	205.7	48.16	5.271		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Well Error:		0.0 ft
Survey Program: 0-Geolink MWD															
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			
8,800.0	7,500.0	8,852.1	7,500.0	32.4	35.3	90.00	1,149.7	1,383.0	253.2	202.0	51.13	4.951			
8,900.0	7,500.0	8,952.1	7,500.0	33.6	36.4	90.00	1,249.7	1,383.0	252.5	198.3	54.17	4.661			
9,000.0	7,500.0	9,052.1	7,500.0	34.9	37.6	90.00	1,349.7	1,383.0	251.8	194.5	57.26	4.397			
9,100.0	7,500.0	9,152.1	7,500.0	36.2	38.8	90.00	1,449.7	1,383.0	251.1	190.7	60.39	4.158			
9,200.0	7,500.0	9,252.1	7,500.0	37.5	40.0	90.00	1,549.7	1,383.0	250.4	186.8	63.56	3.939			
9,300.0	7,500.0	9,352.1	7,500.0	38.9	41.3	90.00	1,649.7	1,383.0	249.7	182.9	66.77	3.739			
9,400.0	7,500.0	9,452.1	7,500.0	40.3	42.6	90.00	1,749.7	1,383.0	249.0	179.0	70.01	3.557			
9,500.0	7,500.0	9,552.1	7,500.0	41.7	44.0	90.00	1,849.7	1,383.0	248.3	175.0	73.27	3.389			
9,600.0	7,500.0	9,652.1	7,500.0	43.2	45.3	90.00	1,949.7	1,383.0	247.6	171.0	76.55	3.234			
9,700.0	7,500.0	9,752.1	7,500.0	44.7	46.7	90.00	2,049.7	1,383.0	246.9	167.0	79.86	3.092			
9,800.0	7,500.0	9,852.1	7,500.0	46.2	48.2	90.00	2,149.7	1,383.0	246.2	163.0	83.17	2.960			
9,900.0	7,500.0	9,952.1	7,500.0	47.7	49.6	90.00	2,249.7	1,383.0	245.5	159.0	86.51	2.838			
10,000.0	7,500.0	10,052.1	7,500.0	49.2	51.1	90.00	2,349.7	1,383.0	244.8	154.9	89.86	2.724			
10,100.0	7,500.0	10,152.1	7,500.0	50.7	52.5	90.00	2,449.7	1,383.0	244.1	150.9	93.22	2.619			
10,200.0	7,500.0	10,252.1	7,500.0	52.3	54.0	90.00	2,549.7	1,383.0	243.4	146.8	96.58	2.520			
10,250.3	7,500.0	10,302.4	7,500.0	53.1	54.8	90.00	2,600.0	1,383.0	243.0	144.8	98.28	2.473			
10,300.0	7,500.0	10,352.1	7,500.0	53.9	55.6	90.00	2,649.7	1,383.0	242.5	142.5	99.96	2.426			
10,400.0	7,500.0	10,452.0	7,500.0	55.5	57.1	90.00	2,749.7	1,383.0	240.0	136.7	103.35	2.323			
10,498.8	7,500.0	10,550.8	7,500.0	57.1	58.6	90.00	2,848.4	1,383.0	235.9	129.2	106.70	2.211			
10,500.0	7,500.0	10,552.0	7,500.0	57.1	58.6	90.00	2,849.6	1,383.0	235.9	129.1	106.74	2.210			
10,600.0	7,500.0	10,651.8	7,500.0	58.7	60.2	90.00	2,949.4	1,383.0	230.8	120.7	110.14	2.096			
10,700.0	7,500.0	10,751.7	7,500.0	60.3	61.7	90.00	3,049.3	1,383.0	225.8	112.3	113.55	1.989			
10,800.0	7,500.0	10,851.6	7,500.0	62.0	63.3	90.00	3,149.2	1,383.0	220.8	103.8	116.96	1.888			
10,900.0	7,500.0	10,951.4	7,500.0	63.6	64.9	90.00	3,249.1	1,383.0	215.7	95.4	120.38	1.792			
11,000.0	7,500.0	11,051.3	7,500.0	65.3	66.5	90.00	3,348.9	1,383.0	210.7	86.9	123.80	1.702			
11,100.0	7,500.0	11,151.2	7,500.0	66.9	68.1	90.00	3,448.8	1,383.0	205.7	78.4	127.23	1.617			
11,200.0	7,500.0	11,251.1	7,500.0	68.6	69.7	90.00	3,548.7	1,383.0	200.6	70.0	130.66	1.536			
11,300.0	7,500.0	11,350.9	7,500.0	70.2	71.3	90.00	3,648.5	1,383.0	195.6	61.5	134.09	1.459 Level 3			
11,400.0	7,500.0	11,450.8	7,500.0	71.9	72.9	90.00	3,748.4	1,383.0	190.6	53.0	137.53	1.386 Level 3			
11,500.0	7,500.0	11,550.7	7,500.0	73.6	74.5	90.00	3,848.3	1,383.0	185.5	44.6	140.97	1.316 Level 3			
11,600.0	7,500.0	11,650.6	7,500.0	75.3	76.2	90.00	3,948.2	1,383.0	180.5	36.1	144.41	1.250 Level 2			
11,700.0	7,500.0	11,750.4	7,500.0	76.9	77.8	90.00	4,048.0	1,383.0	175.5	27.6	147.86	1.187 Level 2			
11,800.0	7,500.0	11,850.3	7,500.0	78.6	79.4	90.00	4,147.9	1,383.0	170.4	19.1	151.31	1.126 Level 2			
11,907.9	7,500.0	11,956.7	7,500.0	80.4	81.2	90.00	4,254.3	1,383.0	165.0	9.6	155.37	1.062 Level 2, SF			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	91.18	-0.4	19.9	19.9					
100.0	100.0	100.0	100.0	0.1	0.1	91.18	-0.4	19.9	19.9	19.6	0.30	66.966		
200.0	200.0	200.0	200.0	0.3	0.3	91.18	-0.4	19.9	19.9	19.2	0.65	30.768		
203.4	203.4	203.4	203.4	0.3	0.3	91.18	-0.4	19.9	19.9	19.2	0.66	30.220	CC	
300.0	300.0	299.8	299.8	0.5	0.5	91.33	-0.5	20.1	20.1	19.1	0.99	20.191	ES	
350.0	350.0	349.7	349.6	0.6	0.6	91.75	-0.6	20.7	20.7	19.5	1.17	17.724		
400.0	400.0	399.5	399.5	0.7	0.7	-17.39	-0.9	21.7	21.6	20.2	1.34	16.060		
500.0	500.0	499.1	499.0	0.8	0.9	-16.79	-1.8	25.1	23.3	21.6	1.69	13.774		
600.0	599.9	598.6	598.4	1.0	1.0	-16.59	-3.1	30.1	25.1	23.0	2.04	12.281		
700.0	699.8	698.2	697.7	1.2	1.2	-16.71	-4.9	36.8	26.8	24.4	2.39	11.231		
800.0	799.5	797.7	796.9	1.4	1.5	-17.10	-7.1	45.1	28.7	25.9	2.74	10.452		
900.0	899.2	897.2	895.8	1.6	1.7	-17.70	-9.8	55.1	30.5	27.4	3.10	9.850		
1,000.0	998.6	996.6	994.5	1.9	2.0	-18.47	-12.9	66.8	32.4	28.9	3.46	9.368		
1,100.0	1,097.9	1,096.1	1,093.0	2.1	2.2	-19.39	-16.5	80.1	34.3	30.5	3.82	8.970		
1,200.0	1,196.9	1,195.4	1,191.2	2.4	2.6	-20.43	-20.5	95.1	36.2	32.0	4.20	8.630		
1,300.0	1,295.7	1,294.8	1,289.0	2.7	2.9	-21.56	-24.9	111.7	38.2	33.7	4.59	8.330		
1,364.2	1,358.9	1,358.5	1,351.6	2.9	3.1	-22.33	-27.9	123.2	39.6	34.7	4.85	8.153		
1,400.0	1,394.2	1,394.1	1,386.5	3.0	3.2	-22.71	-29.7	129.9	40.4	35.4	5.00	8.082		
1,500.0	1,492.6	1,493.4	1,483.6	3.4	3.6	-23.20	-35.0	149.7	43.9	38.5	5.41	8.116		
1,600.0	1,591.0	1,592.5	1,580.2	3.7	4.0	-22.96	-40.7	171.1	49.0	43.2	5.81	8.442		
1,700.0	1,689.5	1,692.2	1,677.2	4.0	4.5	-22.43	-46.7	193.7	55.1	48.9	6.20	8.889		
1,800.0	1,787.9	1,792.0	1,774.2	4.4	4.9	-22.00	-52.8	216.3	61.3	54.7	6.60	9.283		
1,900.0	1,886.3	1,891.8	1,871.3	4.7	5.3	-21.65	-58.8	238.8	67.4	60.4	7.00	9.632		
2,000.0	1,984.8	1,991.6	1,968.3	5.1	5.8	-21.36	-64.8	261.4	73.5	66.1	7.40	9.943		
2,100.0	2,083.2	2,091.4	2,065.3	5.4	6.2	-21.11	-70.8	284.0	79.7	71.9	7.79	10.223		
2,200.0	2,181.7	2,191.3	2,162.4	5.8	6.7	-20.90	-76.8	306.5	85.8	77.6	8.19	10.475		
2,300.0	2,280.1	2,291.1	2,259.4	6.1	7.1	-20.71	-82.9	329.1	92.0	83.4	8.59	10.703		
2,400.0	2,378.5	2,390.9	2,356.5	6.5	7.5	-20.55	-88.9	351.7	98.1	89.1	8.99	10.911		
2,500.0	2,477.0	2,490.7	2,453.5	6.8	8.0	-20.41	-94.9	374.2	104.2	94.8	9.39	11.102		
2,600.0	2,575.4	2,590.5	2,550.5	7.2	8.4	-20.28	-100.9	396.8	110.4	100.6	9.79	11.276		
2,700.0	2,673.8	2,690.3	2,647.6	7.5	8.9	-20.17	-106.9	419.4	116.5	106.3	10.19	11.437		
2,800.0	2,772.3	2,790.1	2,744.6	7.9	9.3	-20.07	-112.9	442.0	122.7	112.1	10.59	11.586		
2,900.0	2,870.7	2,889.9	2,841.6	8.2	9.8	-19.98	-119.0	464.5	128.8	117.8	10.99	11.724		
3,000.0	2,969.2	2,989.7	2,938.7	8.6	10.2	-19.89	-125.0	487.1	135.0	123.6	11.39	11.852		
3,100.0	3,067.6	3,089.6	3,035.7	8.9	10.7	-19.82	-131.0	509.7	141.1	129.3	11.79	11.971		
3,200.0	3,166.0	3,189.4	3,132.8	9.3	11.1	-19.75	-137.0	532.2	147.2	135.1	12.19	12.083		
3,300.0	3,264.5	3,289.2	3,229.8	9.6	11.6	-19.68	-143.0	554.8	153.4	140.8	12.59	12.187		
3,400.0	3,362.9	3,389.0	3,326.8	10.0	12.0	-19.62	-149.0	577.4	159.5	146.5	12.99	12.285		
3,500.0	3,461.3	3,488.8	3,423.9	10.3	12.5	-19.57	-155.1	600.0	165.7	152.3	13.39	12.377		
3,600.0	3,559.8	3,588.6	3,520.9	10.7	12.9	-19.52	-161.1	622.5	171.8	158.0	13.79	12.464		
3,700.0	3,658.2	3,688.4	3,618.0	11.1	13.4	-19.47	-167.1	645.1	178.0	163.8	14.19	12.545		
3,800.0	3,756.7	3,788.2	3,715.0	11.4	13.8	-19.43	-173.1	667.7	184.1	169.5	14.59	12.622		
3,900.0	3,855.1	3,888.0	3,812.0	11.8	14.3	-19.39	-179.1	690.2	190.3	175.3	14.99	12.696		
4,000.0	3,953.5	3,987.8	3,909.1	12.1	14.7	-19.35	-185.2	712.8	196.4	181.0	15.39	12.765		
4,100.0	4,052.0	4,087.7	4,006.1	12.5	15.2	-19.31	-191.2	735.4	202.5	186.8	15.79	12.830		
4,200.0	4,150.4	4,187.5	4,103.2	12.8	15.6	-19.28	-197.2	758.0	208.7	192.5	16.19	12.893		
4,300.0	4,248.8	4,287.3	4,200.2	13.2	16.1	-19.24	-203.2	780.5	214.8	198.3	16.59	12.952		
4,400.0	4,347.3	4,387.1	4,297.2	13.5	16.5	-19.21	-209.2	803.1	221.0	204.0	16.99	13.009		
4,500.0	4,445.7	4,486.9	4,394.3	13.9	17.0	-19.18	-215.2	825.7	227.1	209.7	17.39	13.063		
4,600.0	4,544.2	4,586.7	4,491.3	14.3	17.4	-19.16	-221.3	848.2	233.3	215.5	17.79	13.114		
4,700.0	4,642.6	4,686.5	4,588.3	14.6	17.9	-19.13	-227.3	870.8	239.4	221.2	18.19	13.164		
4,800.0	4,741.0	4,786.3	4,685.4	15.0	18.3	-19.11	-233.3	893.4	245.6	227.0	18.59	13.211		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
4,900.0	4,839.5	4,886.1	4,782.4	15.3	18.8	-19.08	-239.3	916.0	251.7	232.7	18.99	13.256		
5,000.0	4,937.9	4,986.0	4,879.5	15.7	19.2	-19.06	-245.3	938.5	257.9	238.5	19.39	13.299		
5,100.0	5,036.3	5,085.8	4,976.5	16.0	19.7	-19.04	-251.3	961.1	264.0	244.2	19.79	13.341		
5,200.0	5,134.8	5,185.6	5,073.5	16.4	20.1	-19.02	-257.4	983.7	270.2	250.0	20.19	13.381		
5,300.0	5,233.2	5,285.4	5,170.6	16.7	20.6	-19.00	-263.4	1,006.2	276.3	255.7	20.59	13.419		
5,400.0	5,331.7	5,385.2	5,267.6	17.1	21.0	-18.98	-269.4	1,028.8	282.5	261.5	20.99	13.456		
5,500.0	5,430.1	5,485.0	5,364.7	17.5	21.5	-18.96	-275.4	1,051.4	288.6	267.2	21.39	13.491		
5,600.0	5,528.5	5,584.8	5,461.7	17.8	22.0	-18.95	-281.4	1,073.9	294.7	273.0	21.79	13.525		
5,700.0	5,627.0	5,684.6	5,558.7	18.2	22.4	-18.93	-287.4	1,096.5	300.9	278.7	22.19	13.558		
5,800.0	5,725.4	5,784.4	5,655.8	18.5	22.9	-18.91	-293.5	1,119.1	307.0	284.4	22.59	13.590		
5,900.0	5,823.8	5,884.3	5,752.8	18.9	23.3	-18.90	-299.5	1,141.7	313.2	290.2	22.99	13.621		
6,000.0	5,922.3	5,984.1	5,849.9	19.2	23.8	-18.88	-305.5	1,164.2	319.3	295.9	23.39	13.650		
6,100.0	6,020.7	6,083.9	5,946.9	19.6	24.2	-18.87	-311.5	1,186.8	325.5	301.7	23.79	13.679		
6,200.0	6,119.2	6,183.7	6,043.9	20.0	24.7	-18.86	-317.5	1,209.4	331.6	307.4	24.19	13.706		
6,300.0	6,217.6	6,283.5	6,141.0	20.3	25.1	-18.84	-323.6	1,231.9	337.8	313.2	24.60	13.733		
6,400.0	6,316.0	6,383.3	6,238.0	20.7	25.6	-18.83	-329.6	1,254.5	343.9	318.9	25.00	13.759		
6,500.0	6,414.5	6,483.1	6,335.1	21.0	26.0	-18.82	-335.6	1,277.1	350.1	324.7	25.40	13.784		
6,600.0	6,512.9	6,582.9	6,432.1	21.4	26.5	-18.81	-341.6	1,299.7	356.2	330.4	25.80	13.808		
6,700.0	6,611.3	6,682.7	6,529.1	21.7	26.9	-18.80	-347.6	1,322.2	362.4	336.2	26.20	13.832		
6,800.0	6,709.8	6,782.6	6,626.2	22.1	27.4	-18.79	-353.6	1,344.8	368.5	341.9	26.60	13.854		
6,843.8	6,752.9	6,826.2	6,668.6	22.3	27.6	-18.78	-356.3	1,354.7	371.2	344.4	26.77	13.864		
6,850.0	6,759.0	6,832.5	6,674.7	22.3	27.6	-16.13	-356.6	1,356.1	371.6	344.8	26.80	13.866		
6,900.0	6,808.3	6,882.3	6,723.1	22.4	27.8	7.15	-359.7	1,367.4	374.7	347.8	26.86	13.950		
6,950.0	6,857.5	6,932.0	6,771.5	22.6	28.1	28.92	-362.6	1,378.6	377.8	351.1	26.73	14.136		
7,000.0	6,906.4	6,982.5	6,820.6	22.7	28.3	44.91	-363.0	1,390.0	381.0	354.5	26.52	14.366		
7,050.0	6,954.8	7,033.4	6,870.1	22.8	28.5	55.74	-359.9	1,401.5	384.3	358.0	26.32	14.604		
7,100.0	7,002.3	7,084.8	6,919.7	22.9	28.6	63.22	-353.1	1,413.1	387.6	361.5	26.12	14.838		
7,150.0	7,048.9	7,136.7	6,969.2	23.0	28.8	68.61	-342.5	1,424.6	390.9	365.0	25.96	15.061		
7,200.0	7,094.2	7,189.1	7,018.3	23.1	29.0	72.66	-328.1	1,436.0	394.2	368.4	25.83	15.262		
7,250.0	7,138.1	7,242.0	7,066.7	23.1	29.1	75.84	-309.9	1,447.3	397.5	371.7	25.75	15.434		
7,300.0	7,180.2	7,295.5	7,114.1	23.2	29.3	78.39	-287.8	1,458.3	400.6	374.9	25.73	15.570		
7,350.0	7,220.5	7,349.4	7,160.1	23.3	29.4	80.49	-261.9	1,469.0	403.7	378.0	25.77	15.665		
7,400.0	7,258.7	7,403.9	7,204.6	23.3	29.5	82.24	-232.3	1,479.3	406.7	380.8	25.88	15.716		
7,450.0	7,294.7	7,458.8	7,247.1	23.4	29.6	83.73	-198.9	1,489.2	409.5	383.4	26.04	15.723		
7,500.0	7,328.2	7,514.2	7,287.3	23.5	29.7	84.99	-162.0	1,498.6	412.1	385.8	26.27	15.688		
7,550.0	7,359.1	7,570.0	7,324.9	23.5	29.9	86.06	-121.7	1,507.3	414.5	388.0	26.55	15.614		
7,600.0	7,387.2	7,626.2	7,359.5	23.6	30.0	86.98	-78.1	1,515.4	416.7	389.8	26.88	15.504		
7,650.0	7,412.5	7,682.8	7,390.9	23.8	30.1	87.75	-31.7	1,522.7	418.7	391.4	27.27	15.353		
7,700.0	7,434.7	7,739.7	7,418.8	23.9	30.3	88.40	17.5	1,529.2	420.3	392.7	27.62	15.219		
7,750.0	7,453.9	7,796.9	7,442.9	24.1	30.4	88.93	69.0	1,534.8	421.7	393.6	28.09	15.013		
7,800.0	7,469.8	7,854.3	7,462.9	24.2	30.6	89.34	122.6	1,539.4	422.8	394.2	28.56	14.800		
7,850.0	7,482.4	7,911.9	7,478.8	24.4	30.8	89.66	177.8	1,543.1	423.5	394.4	29.07	14.567		
7,900.0	7,491.6	7,969.6	7,490.4	24.7	31.0	89.87	234.3	1,545.8	423.9	394.3	29.61	14.318		
7,950.0	7,497.5	8,027.3	7,497.4	24.9	31.2	89.98	291.6	1,547.5	424.0	393.8	30.17	14.053		
8,000.0	7,499.9	8,085.1	7,500.0	25.2	31.4	90.00	349.2	1,548.0	423.8	393.0	30.76	13.776		
8,010.3	7,500.0	8,095.9	7,500.0	25.2	31.5	90.00	360.1	1,548.1	423.7	392.8	30.93	13.698		
8,100.0	7,500.0	8,185.6	7,500.0	25.8	31.9	90.00	449.7	1,548.1	423.1	390.4	32.69	12.943		
8,200.0	7,500.0	8,285.6	7,500.0	26.5	32.5	90.00	549.7	1,548.1	422.4	387.5	34.87	12.114		
8,300.0	7,500.0	8,385.6	7,500.0	27.3	33.1	90.00	649.7	1,548.1	421.7	384.4	37.25	11.320		
8,400.0	7,500.0	8,485.6	7,500.0	28.2	33.8	90.00	749.7	1,548.1	421.0	381.2	39.80	10.577		
8,500.0	7,500.0	8,585.6	7,500.0	29.1	34.6	90.00	849.7	1,548.1	420.3	377.8	42.49	9.891		
8,600.0	7,500.0	8,685.6	7,500.0	30.2	35.5	90.00	949.7	1,548.1	419.6	374.3	45.29	9.264		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	
8,700.0	7,500.0	8,785.6	7,500.0	31.3	36.4	90.00	1,049.7	1,548.1	418.9	370.7	48.18	8.694		
8,800.0	7,500.0	8,885.6	7,500.0	32.4	37.4	90.00	1,149.7	1,548.1	418.2	367.0	51.15	8.175		
8,900.0	7,500.0	8,985.6	7,500.0	33.6	38.4	90.00	1,249.7	1,548.1	417.5	363.3	54.19	7.705		
9,000.0	7,500.0	9,085.6	7,500.0	34.9	39.5	90.00	1,349.7	1,548.1	416.8	359.5	57.27	7.277		
9,100.0	7,500.0	9,185.6	7,500.0	36.2	40.6	90.00	1,449.7	1,548.1	416.1	355.7	60.41	6.888		
9,200.0	7,500.0	9,285.6	7,500.0	37.5	41.8	90.00	1,549.7	1,548.1	415.4	351.8	63.58	6.533		
9,300.0	7,500.0	9,385.6	7,500.0	38.9	43.0	90.00	1,649.7	1,548.1	414.7	347.9	66.79	6.209		
9,400.0	7,500.0	9,485.6	7,500.0	40.3	44.3	90.00	1,749.7	1,548.1	414.0	344.0	70.02	5.912		
9,500.0	7,500.0	9,585.6	7,500.0	41.7	45.6	90.00	1,849.7	1,548.1	413.3	340.0	73.29	5.639		
9,600.0	7,500.0	9,685.6	7,500.0	43.2	46.9	90.00	1,949.7	1,548.1	412.6	336.0	76.57	5.389		
9,700.0	7,500.0	9,785.6	7,500.0	44.7	48.3	90.00	2,049.7	1,548.1	411.9	332.0	79.87	5.157		
9,800.0	7,500.0	9,885.6	7,500.0	46.2	49.6	90.00	2,149.7	1,548.1	411.2	328.0	83.19	4.943		
9,900.0	7,500.0	9,985.6	7,500.0	47.7	51.0	90.00	2,249.7	1,548.0	410.5	324.0	86.52	4.744		
10,000.0	7,500.0	10,085.6	7,500.0	49.2	52.5	90.00	2,349.7	1,548.0	409.8	319.9	89.87	4.560		
10,100.0	7,500.0	10,185.6	7,500.0	50.7	53.9	90.00	2,449.7	1,548.0	409.1	315.9	93.23	4.388		
10,200.0	7,500.0	10,285.6	7,500.0	52.3	55.4	90.00	2,549.7	1,548.0	408.4	311.8	96.60	4.228		
10,250.3	7,500.0	10,335.9	7,500.0	53.1	56.1	90.00	2,600.0	1,548.0	408.0	309.8	98.30	4.151		
10,300.0	7,500.0	10,385.5	7,500.0	53.9	56.8	90.00	2,649.7	1,548.0	407.5	307.5	99.98	4.076		
10,400.0	7,500.0	10,485.5	7,500.0	55.5	58.3	90.00	2,749.7	1,548.0	405.0	301.7	103.36	3.919		
10,498.8	7,500.0	10,584.3	7,500.0	57.1	59.8	90.00	2,848.4	1,548.0	400.9	294.2	106.72	3.757		
10,500.0	7,500.0	10,585.4	7,500.0	57.1	59.8	90.00	2,849.6	1,548.0	400.9	294.1	106.76	3.755		
10,600.0	7,500.0	10,685.3	7,500.0	58.7	61.3	90.00	2,949.4	1,548.0	395.8	285.7	110.15	3.593		
10,700.0	7,500.0	10,785.2	7,500.0	60.3	62.9	90.00	3,049.3	1,548.0	390.8	277.2	113.56	3.441		
10,800.0	7,500.0	10,885.0	7,500.0	62.0	64.4	90.00	3,149.2	1,548.0	385.8	268.8	116.97	3.298		
10,900.0	7,500.0	10,984.9	7,500.0	63.6	66.0	90.00	3,249.1	1,548.0	380.7	260.3	120.39	3.163		
11,000.0	7,500.0	11,084.8	7,500.0	65.3	67.5	90.00	3,348.9	1,548.0	375.7	251.9	123.81	3.034		
11,100.0	7,500.0	11,184.7	7,500.0	66.9	69.1	90.00	3,448.8	1,548.0	370.7	243.4	127.24	2.913		
11,200.0	7,500.0	11,284.5	7,500.0	68.6	70.7	90.00	3,548.7	1,548.0	365.6	235.0	130.67	2.798		
11,300.0	7,500.0	11,384.4	7,500.0	70.2	72.3	90.00	3,648.5	1,548.0	360.6	226.5	134.10	2.689		
11,400.0	7,500.0	11,484.3	7,500.0	71.9	73.9	90.00	3,748.4	1,548.0	355.6	218.0	137.54	2.585		
11,500.0	7,500.0	11,584.2	7,500.0	73.6	75.5	90.00	3,848.3	1,548.0	350.5	209.5	140.98	2.486		
11,600.0	7,500.0	11,684.0	7,500.0	75.3	77.1	90.00	3,948.2	1,548.0	345.5	201.1	144.43	2.392		
11,700.0	7,500.0	11,783.9	7,500.0	76.9	78.7	90.00	4,048.0	1,548.0	340.5	192.6	147.87	2.302		
11,800.0	7,500.0	11,883.8	7,500.0	78.6	80.3	90.00	4,147.9	1,548.0	335.4	184.1	151.32	2.217		
11,907.9	7,500.0	11,988.8	7,500.0	80.4	82.0	90.00	4,252.9	1,548.0	330.0	174.6	155.38	2.124 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
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	90.70	-0.4	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.70	-0.4	29.9	29.9	29.6	0.30	100.906		
200.0	200.0	200.0	200.0	0.3	0.3	90.70	-0.4	29.9	29.9	29.3	0.65	46.362 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	90.83	-0.4	30.8	30.8	29.8	0.99	30.996		
350.0	350.0	349.2	349.2	0.6	0.6	90.99	-0.5	31.9	31.9	30.7	1.17	27.305		
400.0	400.0	398.9	398.9	0.7	0.7	-18.54	-0.7	33.4	33.2	31.9	1.34	24.742		
500.0	500.0	498.3	498.1	0.8	0.9	-18.89	-1.1	37.7	35.9	34.2	1.69	21.232		
600.0	599.9	597.6	597.3	1.0	1.1	-19.81	-1.7	43.7	38.6	36.6	2.04	18.957		
700.0	699.8	696.8	696.2	1.2	1.3	-21.18	-2.4	51.4	41.5	39.1	2.39	17.376		
800.0	799.5	796.1	795.0	1.4	1.5	-22.90	-3.3	60.8	44.4	41.7	2.74	16.224		
900.0	899.2	895.2	893.5	1.6	1.8	-24.89	-4.4	71.9	47.6	44.5	3.10	15.352		
1,000.0	998.6	994.3	991.8	1.9	2.0	-27.08	-5.6	84.7	50.9	47.4	3.47	14.666		
1,100.0	1,097.9	1,093.3	1,089.7	2.1	2.3	-29.42	-7.0	99.1	54.4	50.5	3.86	14.104		
1,200.0	1,196.9	1,192.3	1,187.3	2.4	2.6	-31.85	-8.5	115.3	58.2	53.9	4.27	13.622		
1,300.0	1,295.7	1,291.2	1,284.6	2.7	3.0	-34.32	-10.2	133.1	62.2	57.5	4.72	13.187		
1,364.2	1,358.9	1,354.6	1,346.8	2.9	3.2	-35.92	-11.4	145.4	64.9	59.9	5.03	12.925		
1,400.0	1,394.2	1,390.0	1,381.5	3.0	3.4	-36.76	-12.1	152.5	66.6	61.4	5.20	12.807		
1,500.0	1,492.6	1,488.7	1,477.9	3.4	3.8	-38.51	-14.1	173.6	72.4	66.7	5.71	12.694		
1,600.0	1,591.0	1,587.3	1,573.8	3.7	4.2	-39.46	-16.3	196.3	79.9	73.6	6.21	12.852		
1,700.0	1,689.5	1,685.6	1,669.0	4.0	4.7	-39.77	-18.6	220.6	88.8	82.1	6.71	13.231		
1,800.0	1,787.9	1,783.6	1,763.5	4.4	5.1	-39.58	-21.1	246.4	99.3	92.1	7.20	13.795		
1,900.0	1,886.3	1,881.2	1,857.2	4.7	5.7	-39.06	-23.7	273.7	111.4	103.7	7.67	14.517		
2,000.0	1,984.8	1,978.8	1,950.4	5.1	6.2	-38.33	-26.4	302.6	124.9	116.8	8.13	15.370		
2,100.0	2,083.2	2,077.8	2,044.7	5.4	6.7	-37.63	-29.3	332.4	139.0	130.4	8.59	16.178		
2,200.0	2,181.7	2,176.8	2,139.1	5.8	7.3	-37.06	-32.1	362.2	153.1	144.0	9.06	16.902		
2,300.0	2,280.1	2,275.8	2,233.5	6.1	7.8	-36.59	-35.0	392.0	167.2	157.7	9.53	17.553		
2,400.0	2,378.5	2,374.8	2,327.8	6.5	8.4	-36.19	-37.8	421.8	181.3	171.3	9.99	18.143		
2,500.0	2,477.0	2,473.8	2,422.2	6.8	9.0	-35.85	-40.7	451.6	195.4	185.0	10.46	18.678		
2,600.0	2,575.4	2,572.8	2,516.5	7.2	9.5	-35.55	-43.5	481.4	209.6	198.6	10.93	19.167		
2,700.0	2,673.8	2,671.8	2,610.9	7.5	10.1	-35.29	-46.4	511.2	223.7	212.3	11.41	19.615		
2,800.0	2,772.3	2,770.7	2,705.2	7.9	10.7	-35.06	-49.2	541.0	237.9	226.0	11.88	20.026		
2,900.0	2,870.7	2,869.7	2,799.6	8.2	11.2	-34.86	-52.1	570.8	252.0	239.7	12.35	20.406		
3,000.0	2,969.2	2,968.7	2,893.9	8.6	11.8	-34.68	-54.9	600.6	266.1	253.3	12.82	20.756		
3,100.0	3,067.6	3,067.7	2,988.3	8.9	12.4	-34.52	-57.8	630.4	280.3	267.0	13.30	21.082		
3,200.0	3,166.0	3,166.7	3,082.6	9.3	12.9	-34.37	-60.7	660.2	294.4	280.7	13.77	21.385		
3,300.0	3,264.5	3,265.7	3,177.0	9.6	13.5	-34.24	-63.5	690.0	308.6	294.4	14.24	21.667		
3,400.0	3,362.9	3,364.7	3,271.4	10.0	14.1	-34.12	-66.4	719.9	322.8	308.0	14.72	21.931		
3,500.0	3,461.3	3,463.7	3,365.7	10.3	14.6	-34.01	-69.2	749.7	336.9	321.7	15.19	22.178		
3,600.0	3,559.8	3,562.7	3,460.1	10.7	15.2	-33.90	-72.1	779.5	351.1	335.4	15.67	22.410		
3,700.0	3,658.2	3,661.7	3,554.4	11.1	15.8	-33.81	-74.9	809.3	365.2	349.1	16.14	22.628		
3,800.0	3,756.7	3,760.7	3,648.8	11.4	16.3	-33.72	-77.8	839.1	379.4	362.8	16.62	22.833		
3,900.0	3,855.1	3,859.7	3,743.1	11.8	16.9	-33.64	-80.6	868.9	393.5	376.5	17.09	23.027		
4,000.0	3,953.5	3,958.6	3,837.5	12.1	17.5	-33.57	-83.5	898.7	407.7	390.1	17.57	23.210		
4,100.0	4,052.0	4,057.6	3,931.8	12.5	18.0	-33.50	-86.3	928.5	421.9	403.8	18.04	23.383		
4,200.0	4,150.4	4,156.6	4,026.2	12.8	18.6	-33.43	-89.2	958.3	436.0	417.5	18.52	23.548		
4,300.0	4,248.8	4,255.6	4,120.5	13.2	19.2	-33.37	-92.0	988.1	450.2	431.2	18.99	23.704		
4,400.0	4,347.3	4,354.6	4,214.9	13.5	19.7	-33.31	-94.9	1,017.9	464.4	444.9	19.47	23.852		
4,500.0	4,445.7	4,453.6	4,309.3	13.9	20.3	-33.26	-97.7	1,047.7	478.5	458.6	19.94	23.993		
4,600.0	4,544.2	4,552.6	4,403.6	14.3	20.9	-33.20	-100.6	1,077.5	492.7	472.3	20.42	24.127		
4,700.0	4,642.6	4,651.6	4,498.0	14.6	21.5	-33.16	-103.4	1,107.3	506.8	485.9	20.90	24.256		
4,800.0	4,741.0	4,750.6	4,592.3	15.0	22.0	-33.11	-106.3	1,137.1	521.0	499.6	21.37	24.378		
4,900.0	4,839.5	4,849.6	4,686.7	15.3	22.6	-33.07	-109.1	1,166.9	535.2	513.3	21.85	24.495		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: O-Geolink MWD														
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	
5,000.0	4,937.9	4,948.6	4,781.0	15.7	23.2	-33.02	-112.0	1,196.7	549.3	527.0	22.32	24.607		
5,100.0	5,036.3	5,047.5	4,875.4	16.0	23.7	-32.99	-114.8	1,226.5	563.5	540.7	22.80	24.714		
5,200.0	5,134.8	5,146.5	4,969.7	16.4	24.3	-32.95	-117.7	1,256.3	577.7	554.4	23.28	24.817		
5,300.0	5,233.2	5,245.5	5,064.1	16.7	24.9	-32.91	-120.5	1,286.1	591.8	568.1	23.75	24.916		
5,400.0	5,331.7	5,344.5	5,158.4	17.1	25.5	-32.88	-123.4	1,315.9	606.0	581.8	24.23	25.010		
5,500.0	5,430.1	5,443.5	5,252.8	17.5	26.0	-32.85	-126.2	1,345.8	620.2	595.5	24.71	25.101		
5,600.0	5,528.5	5,542.5	5,347.2	17.8	26.6	-32.82	-129.1	1,375.6	634.3	609.1	25.18	25.189		
5,700.0	5,627.0	5,641.5	5,441.5	18.2	27.2	-32.79	-131.9	1,405.4	648.5	622.8	25.66	25.273		
5,800.0	5,725.4	5,740.5	5,535.9	18.5	27.7	-32.76	-134.8	1,435.2	662.7	636.5	26.14	25.354		
5,900.0	5,823.8	5,839.5	5,630.2	18.9	28.3	-32.73	-137.6	1,465.0	676.8	650.2	26.61	25.432		
6,000.0	5,922.3	5,938.5	5,724.6	19.2	28.9	-32.71	-140.5	1,494.8	691.0	663.9	27.09	25.508		
6,100.0	6,020.7	6,037.5	5,818.9	19.6	29.4	-32.68	-143.3	1,524.6	705.2	677.6	27.57	25.580		
6,200.0	6,119.2	6,136.4	5,913.3	20.0	30.0	-32.66	-146.2	1,554.4	719.3	691.3	28.04	25.651		
6,300.0	6,217.6	6,235.4	6,007.6	20.3	30.6	-32.63	-149.0	1,584.2	733.5	705.0	28.52	25.718		
6,400.0	6,316.0	6,334.4	6,102.0	20.7	31.2	-32.61	-151.9	1,614.0	747.7	718.7	29.00	25.784		
6,500.0	6,414.5	6,433.4	6,196.3	21.0	31.7	-32.59	-154.7	1,643.8	761.8	732.4	29.47	25.848		
6,600.0	6,512.9	6,532.4	6,290.7	21.4	32.3	-32.57	-157.6	1,673.6	776.0	746.0	29.95	25.909		
6,700.0	6,611.3	6,631.4	6,385.0	21.7	32.9	-32.55	-160.4	1,703.4	790.2	759.7	30.43	25.969		
6,800.0	6,709.8	6,730.4	6,479.4	22.1	33.4	-32.53	-163.3	1,733.2	804.3	773.4	30.90	26.026		
6,843.8	6,752.9	6,773.7	6,520.7	22.3	33.7	-32.52	-164.5	1,746.3	810.5	779.4	31.11	26.051		
6,850.0	6,759.0	6,779.9	6,526.6	22.3	33.7	-29.92	-164.7	1,748.1	811.4	780.3	31.14	26.055		
6,900.0	6,808.3	6,829.4	6,573.8	22.4	34.0	-7.08	-166.1	1,763.0	818.0	786.7	31.26	26.166		
6,950.0	6,857.5	6,878.7	6,620.8	22.6	34.3	14.04	-167.6	1,777.9	823.7	792.5	31.22	26.383		
7,000.0	6,906.4	6,927.7	6,667.4	22.7	34.6	29.51	-169.0	1,792.6	828.7	797.7	31.03	26.708		
7,050.0	6,954.8	6,976.0	6,713.5	22.8	34.9	40.10	-170.4	1,807.2	833.0	802.3	30.69	27.145		
7,100.0	7,002.3	7,017.2	6,752.8	22.9	35.1	47.39	-170.7	1,819.5	836.9	806.7	30.19	27.722		
7,150.0	7,048.9	7,058.0	6,791.7	23.0	35.3	52.64	-168.7	1,831.7	840.6	811.0	29.63	28.371		
7,200.0	7,094.2	7,100.0	6,831.6	23.1	35.6	56.64	-164.2	1,844.1	844.3	815.2	29.04	29.069		
7,250.0	7,138.1	7,141.5	6,870.7	23.1	35.8	59.81	-157.4	1,856.2	847.8	819.4	28.44	29.815		
7,300.0	7,180.2	7,184.3	6,910.5	23.2	36.0	62.44	-147.9	1,868.4	851.3	823.4	27.85	30.562		
7,350.0	7,220.5	7,227.8	6,950.5	23.3	36.2	64.69	-135.6	1,880.6	854.6	827.3	27.32	31.281		
7,400.0	7,258.7	7,272.3	6,990.6	23.3	36.4	66.67	-120.6	1,892.7	857.9	831.0	26.87	31.933		
7,450.0	7,294.7	7,317.6	7,030.4	23.4	36.6	68.46	-102.6	1,904.6	861.0	834.5	26.52	32.473		
7,500.0	7,328.2	7,364.0	7,070.0	23.5	36.8	70.10	-81.5	1,916.3	864.1	837.8	26.30	32.861		
7,550.0	7,359.1	7,411.5	7,109.2	23.5	37.0	71.64	-57.2	1,927.8	867.1	840.9	26.22	33.064		
7,600.0	7,387.2	7,460.2	7,147.6	23.6	37.2	73.09	-29.5	1,938.9	870.0	843.7	26.31	33.065		
7,650.0	7,412.5	7,510.2	7,185.2	23.8	37.4	74.49	1.7	1,949.7	872.7	846.2	26.55	32.867		
7,700.0	7,434.7	7,561.6	7,221.6	23.9	37.6	75.83	36.5	1,959.9	875.3	848.4	26.95	32.484		
7,750.0	7,453.9	7,614.5	7,256.5	24.1	37.8	77.13	75.1	1,969.5	877.8	850.3	27.47	31.953		
7,800.0	7,469.8	7,669.0	7,289.5	24.2	38.0	78.40	117.5	1,978.4	880.0	851.9	28.10	31.315		
7,850.0	7,482.4	7,725.2	7,320.3	24.4	38.3	79.64	163.9	1,986.5	882.1	853.3	28.81	30.615		
7,900.0	7,491.6	7,783.3	7,348.3	24.7	38.5	80.84	214.1	1,993.6	883.9	854.3	29.57	29.893		
7,950.0	7,497.5	7,843.2	7,373.1	24.9	38.7	82.02	268.3	1,999.5	885.3	855.0	30.34	29.183		
8,000.0	7,499.9	7,905.1	7,394.1	25.2	39.0	83.16	326.3	2,004.1	886.5	855.4	31.10	28.506		
8,010.3	7,500.0	7,918.1	7,397.9	25.2	39.0	83.39	338.8	2,004.9	886.7	855.4	31.25	28.370		
8,100.0	7,500.0	8,036.1	7,422.5	25.8	39.5	84.99	454.1	2,008.6	887.0	854.5	32.49	27.299		
8,200.0	7,500.0	8,162.9	7,429.0	26.5	40.0	85.39	580.5	2,006.2	883.9	849.9	34.02	25.981		
8,300.0	7,500.0	8,262.8	7,429.0	27.3	40.5	85.37	680.3	2,002.7	879.7	843.4	36.32	24.221		
8,400.0	7,500.0	8,362.7	7,429.0	28.2	41.1	85.34	780.2	1,999.2	875.6	836.8	38.80	22.569		
8,500.0	7,500.0	8,462.6	7,429.0	29.1	41.7	85.32	880.0	1,995.7	871.4	830.0	41.42	21.040		
8,600.0	7,500.0	8,562.5	7,429.0	30.2	42.4	85.30	979.9	1,992.3	867.2	823.1	44.16	19.639		
8,700.0	7,500.0	8,662.5	7,429.0	31.3	43.1	85.28	1,079.7	1,988.8	863.0	816.0	47.00	18.363		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

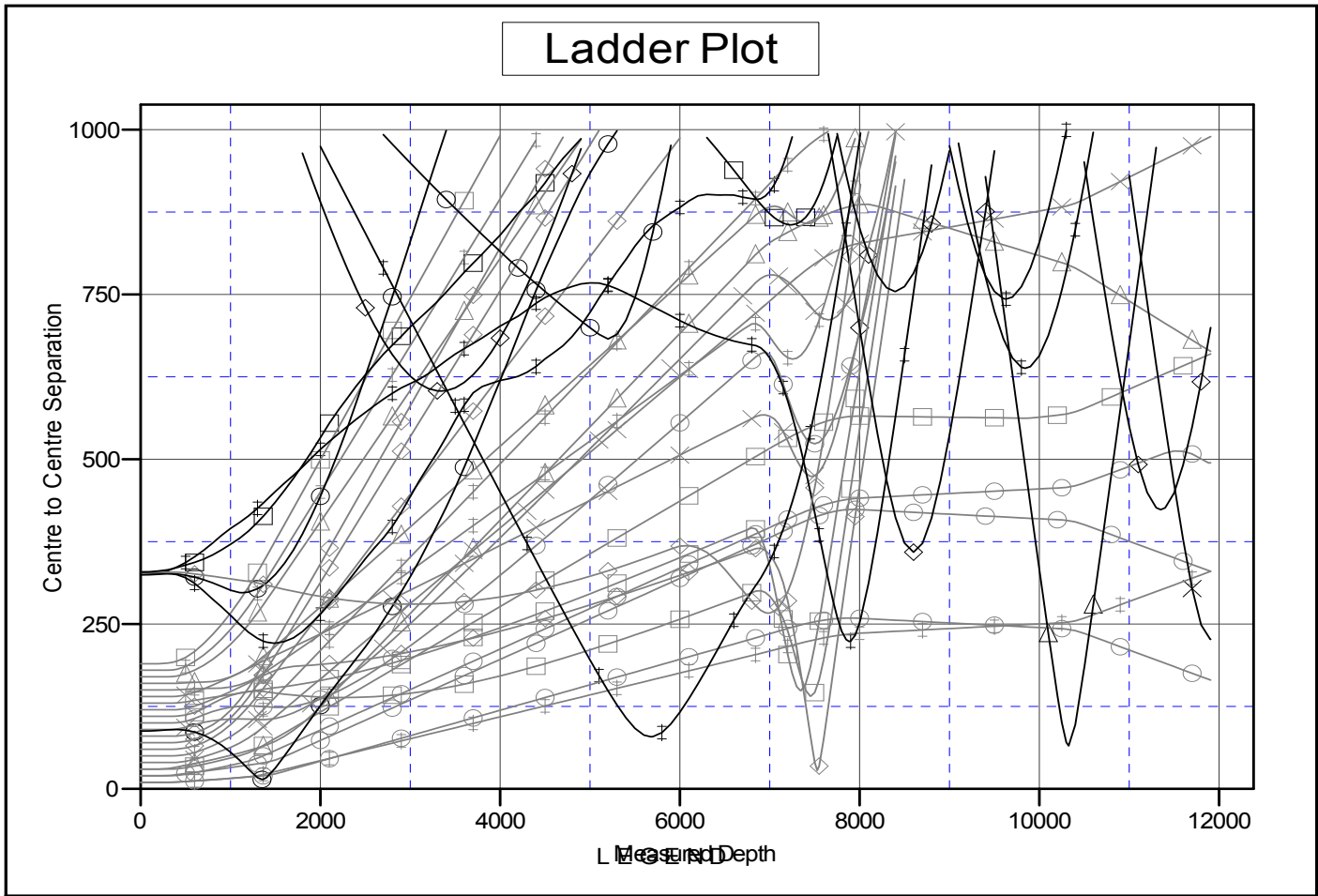
Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset				Semi Major Axis			Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
8,800.0	7,500.0	8,762.4	7,429.0	32.4	43.9	85.25	1,179.6	1,985.3	858.9	808.9	49.92	17.204			
8,900.0	7,500.0	8,862.3	7,429.0	33.6	44.7	85.23	1,279.4	1,981.8	854.7	801.8	52.92	16.152			
9,000.0	7,500.0	8,962.2	7,429.0	34.9	45.6	85.21	1,379.3	1,978.3	850.5	794.6	55.97	15.197			
9,100.0	7,500.0	9,062.1	7,429.0	36.2	46.6	85.18	1,479.1	1,974.8	846.3	787.3	59.07	14.329			
9,200.0	7,500.0	9,162.0	7,429.0	37.5	47.6	85.16	1,579.0	1,971.3	842.2	780.0	62.21	13.538			
9,300.0	7,500.0	9,261.9	7,429.0	38.9	48.6	85.14	1,678.9	1,967.8	838.0	772.6	65.38	12.817			
9,400.0	7,500.0	9,361.8	7,429.0	40.3	49.7	85.11	1,778.7	1,964.4	833.8	765.2	68.59	12.156			
9,500.0	7,500.0	9,461.8	7,429.0	41.7	50.8	85.09	1,878.6	1,960.9	829.7	757.8	71.82	11.551			
9,600.0	7,500.0	9,561.7	7,429.0	43.2	52.0	85.06	1,978.4	1,957.4	825.5	750.4	75.08	10.995			
9,700.0	7,500.0	9,661.6	7,429.0	44.7	53.2	85.04	2,078.3	1,953.9	821.3	743.0	78.36	10.482			
9,800.0	7,500.0	9,761.5	7,429.0	46.2	54.4	85.01	2,178.1	1,950.4	817.1	735.5	81.65	10.008			
9,900.0	7,500.0	9,861.4	7,429.0	47.7	55.6	84.99	2,278.0	1,946.9	813.0	728.0	84.96	9.569			
10,000.0	7,500.0	9,961.3	7,429.0	49.2	56.9	84.96	2,377.8	1,943.4	808.8	720.5	88.28	9.162			
10,100.0	7,500.0	10,061.2	7,429.0	50.7	58.2	84.93	2,477.7	1,940.0	804.6	713.0	91.62	8.783			
10,200.0	7,500.0	10,161.1	7,429.0	52.3	59.5	84.91	2,577.5	1,936.5	800.5	705.5	94.96	8.429			
10,250.3	7,500.0	10,211.4	7,429.0	53.1	60.2	84.89	2,627.8	1,934.7	798.4	701.7	96.65	8.260			
10,300.0	7,500.0	10,261.0	7,429.0	53.9	60.9	84.88	2,677.4	1,933.0	796.1	697.8	98.32	8.097			
10,400.0	7,500.0	10,360.9	7,429.0	55.5	62.3	84.83	2,777.1	1,929.5	790.2	688.5	101.68	7.771			
10,498.8	7,500.0	10,459.4	7,429.0	57.1	63.6	84.78	2,875.6	1,926.1	782.6	677.6	105.00	7.454			
10,500.0	7,500.0	10,460.6	7,429.0	57.1	63.6	84.78	2,876.8	1,926.0	782.5	677.5	105.04	7.450			
10,600.0	7,500.0	10,560.2	7,429.0	58.7	65.1	84.72	2,976.3	1,922.5	774.1	665.6	108.40	7.141			
10,700.0	7,500.0	10,659.8	7,429.0	60.3	66.5	84.66	3,075.9	1,919.1	765.6	653.8	111.77	6.849			
10,800.0	7,500.0	10,759.5	7,429.0	62.0	67.9	84.60	3,175.5	1,915.6	757.1	641.9	115.15	6.575			
10,900.0	7,500.0	10,859.1	7,429.0	63.6	69.4	84.54	3,275.1	1,912.1	748.6	630.1	118.53	6.316			
11,000.0	7,500.0	10,958.8	7,429.0	65.3	70.8	84.48	3,374.6	1,908.6	740.1	618.2	121.92	6.071			
11,100.0	7,500.0	11,058.4	7,429.0	66.9	72.3	84.41	3,474.2	1,905.1	731.7	606.4	125.31	5.839			
11,200.0	7,500.0	11,158.0	7,429.0	68.6	73.8	84.35	3,573.8	1,901.7	723.2	594.5	128.70	5.619			
11,300.0	7,500.0	11,257.7	7,429.0	70.2	75.3	84.28	3,673.4	1,898.2	714.7	582.6	132.09	5.411			
11,400.0	7,500.0	11,357.3	7,429.0	71.9	76.8	84.21	3,772.9	1,894.7	706.2	570.7	135.49	5.212			
11,500.0	7,500.0	11,456.9	7,429.0	73.6	78.3	84.14	3,872.5	1,891.2	697.8	558.9	138.89	5.024			
11,600.0	7,500.0	11,556.6	7,429.0	75.3	79.8	84.07	3,972.1	1,887.8	689.3	547.0	142.29	4.844			
11,700.0	7,500.0	11,656.2	7,429.0	76.9	81.4	83.99	4,071.7	1,884.3	680.8	535.1	145.69	4.673			
11,800.0	7,500.0	11,755.8	7,429.0	78.6	82.9	83.92	4,171.2	1,880.8	672.4	523.3	149.10	4.509			
11,907.9	7,500.0	11,834.9	7,429.0	80.4	84.2	83.85	4,250.2	1,878.0	663.8	509.2	154.61	4.294 SF			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4T-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4T-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 15' KB @ 5003.0ft Offset Depths are relative to Offset Datum Central Meridian is -105.500000 °	Coordinates are relative to: HWY 4T-32H-O268 Coordinate System is US State Plane 1983, Colorado Northern Zone Grid Convergence at Surface is: 0.31°
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| 268, OH, PLAN#1 V0 | ◆ HWY 4N-32H-O268, OH, PLAN#1 V0 | ✦ BROWN 41-5, ENCANA WELL, ENCANA |
| 268, OH, PLAN#1 V0 | ✦ HWY 4O-32H-O268, OH, PLAN#1 V0 | ○ CANINO 1-X, ENCANA WELL, NO SURV |
| 268, OH, PLAN#1 V0 | ✦ HWY 4P-32H-O268, OH, PLAN#1 V0 | ◆ NELSON E UNIT 2, ENCANA, SURVEY |
| 268, OH, PLAN#1 V0 | ▣ HWY 4Q-32H-O268, OH, PLAN#1 V0 | ○ RAY NELSON 33-32, ENCANA WELLS |
| 268, OH, PLAN#1 V0 | ○ HWY 4R-32H-O268, OH, PLAN#1 V0 | ○ RAY NELSON 34-32, ENCANA WELLS |
| 268, OH, PLAN#1 V0 | ✦ HWY 4S-32H-O268, OH, PLAN#1 V0 | ✦ RAY NELSON 44-32, ENCANA WELLS |
| 268, OH, PLAN#1 V0 | ○ HWY 4U-32H-O268, OH, PLAN#1 V0 | ◆ RAY NELSON 4-8-32, ENCANA WELLS |
| 268, OH, Plan#1 V0 | ○ HWY 4V-32H-O268, OH, PLAN#1 V0 | ✦ RAY NELSON 6-8-32, ENCANA WELLS |
| 68, OH, PLAN#1 V0 | ▲ HWY 4W-32H-O268, OH, PLAN#1 V0 | ◆ RAY NELSON 7-8-32, DD, Plan #1 V0 |
| 268, OH, PLAN#1 V0 | ✦ ANDERSON 41-32, ENCANA WELL, NO SURVEYS V0 | ✦ RAY NELSON 8-4-32, ENCANA WELLS |
| 268, OH, PLAN#1 V0 | ✦ ANDERSON 6-4-32, ENCANA WELL, SURVEYS V0 | ◆ RAY NELSON 8-6-32, ENCANA WELLS |

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