

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4R-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.22 ft	Latitude:	40.089354
	+E/-W	0.0 ft	Easting:	3,132,994.32 ft	Longitude:	-105.024678
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 (nT)
	IGRF2010	6/1/2015	8.44	66.62	52,522

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	9.90

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,193.5	6.94	119.65	1,191.9	-20.7	36.4	1.00	1.00	0.00	119.65	
6,787.9	6.94	119.65	6,745.2	-354.9	623.5	0.00	0.00	0.00	0.00	
7,955.7	90.00	0.00	7,500.0	360.0	703.3	8.00	7.11	-10.25	-119.47	
8,495.7	90.00	0.00	7,500.0	900.0	703.3	0.00	0.00	0.00	0.00	Interp @ 7500.0 (HW'
11,345.7	90.00	0.00	7,500.0	3,750.0	703.3	0.00	0.00	0.00	0.00	
11,828.3	90.00	8.48	7,500.0	4,230.9	739.0	1.76	0.00	1.76	90.00	
11,857.5	90.00	8.48	7,500.0	4,259.7	743.3	0.00	0.00	0.00	0.00	HWY 4R PBHL NEW

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Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: S32-T2N-R68W (File/Hwy 52) NEW
Well: HWY 4R-32H-O268
Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference: Well HWY 4R-32H-O268
TVD Reference: 15' KB @ 5003.0ft
MD Reference: 15' KB @ 5003.0ft
North Reference: True
Survey Calculation Method: Minimum Curvature

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	Start Build 1.00
600.0	1.00	119.65	600.0	-0.4	0.8	-0.3	1.00	1.00	
700.0	2.00	119.65	700.0	-1.7	3.0	-1.2	1.00	1.00	
800.0	3.00	119.65	799.9	-3.9	6.8	-2.7	1.00	1.00	
900.0	4.00	119.65	899.7	-6.9	12.1	-4.7	1.00	1.00	
1,000.0	5.00	119.65	999.4	-10.8	18.9	-7.4	1.00	1.00	
1,100.0	6.00	119.65	1,098.9	-15.5	27.3	-10.6	1.00	1.00	
1,193.5	6.94	119.65	1,191.9	-20.7	36.4	-14.2	1.00	1.00	Start 5594.3 hold at 1193.5 MD
1,200.0	6.94	119.65	1,198.3	-21.1	37.1	-14.4	0.00	0.00	
1,300.0	6.94	119.65	1,297.5	-27.1	47.6	-18.5	0.00	0.00	
1,400.0	6.94	119.65	1,396.8	-33.1	58.1	-22.6	0.00	0.00	
1,500.0	6.94	119.65	1,496.1	-39.0	68.6	-26.7	0.00	0.00	
1,600.0	6.94	119.65	1,595.3	-45.0	79.1	-30.8	0.00	0.00	
1,700.0	6.94	119.65	1,694.6	-51.0	89.6	-34.8	0.00	0.00	
1,800.0	6.94	119.65	1,793.9	-57.0	100.1	-38.9	0.00	0.00	
1,900.0	6.94	119.65	1,893.1	-62.9	110.6	-43.0	0.00	0.00	
2,000.0	6.94	119.65	1,992.4	-68.9	121.1	-47.1	0.00	0.00	
2,100.0	6.94	119.65	2,091.7	-74.9	131.6	-51.2	0.00	0.00	
2,200.0	6.94	119.65	2,190.9	-80.9	142.1	-55.2	0.00	0.00	
2,300.0	6.94	119.65	2,290.2	-86.8	152.5	-59.3	0.00	0.00	
2,400.0	6.94	119.65	2,389.5	-92.8	163.0	-63.4	0.00	0.00	
2,500.0	6.94	119.65	2,488.8	-98.8	173.5	-67.5	0.00	0.00	
2,600.0	6.94	119.65	2,588.0	-104.8	184.0	-71.6	0.00	0.00	
2,700.0	6.94	119.65	2,687.3	-110.7	194.5	-75.6	0.00	0.00	
2,800.0	6.94	119.65	2,786.6	-116.7	205.0	-79.7	0.00	0.00	
2,900.0	6.94	119.65	2,885.8	-122.7	215.5	-83.8	0.00	0.00	
3,000.0	6.94	119.65	2,985.1	-128.6	226.0	-87.9	0.00	0.00	
3,100.0	6.94	119.65	3,084.4	-134.6	236.5	-92.0	0.00	0.00	
3,200.0	6.94	119.65	3,183.6	-140.6	247.0	-96.0	0.00	0.00	
3,300.0	6.94	119.65	3,282.9	-146.6	257.5	-100.1	0.00	0.00	
3,400.0	6.94	119.65	3,382.2	-152.5	268.0	-104.2	0.00	0.00	
3,500.0	6.94	119.65	3,481.4	-158.5	278.5	-108.3	0.00	0.00	
3,600.0	6.94	119.65	3,580.7	-164.5	289.0	-112.4	0.00	0.00	
3,700.0	6.94	119.65	3,680.0	-170.5	299.5	-116.5	0.00	0.00	
3,800.0	6.94	119.65	3,779.2	-176.4	310.0	-120.5	0.00	0.00	
3,900.0	6.94	119.65	3,878.5	-182.4	320.5	-124.6	0.00	0.00	
4,000.0	6.94	119.65	3,977.8	-188.4	330.9	-128.7	0.00	0.00	
4,100.0	6.94	119.65	4,077.0	-194.4	341.4	-132.8	0.00	0.00	
4,200.0	6.94	119.65	4,176.3	-200.3	351.9	-136.9	0.00	0.00	
4,300.0	6.94	119.65	4,275.6	-206.3	362.4	-140.9	0.00	0.00	
4,400.0	6.94	119.65	4,374.9	-212.3	372.9	-145.0	0.00	0.00	
4,500.0	6.94	119.65	4,474.1	-218.3	383.4	-149.1	0.00	0.00	
4,600.0	6.94	119.65	4,573.4	-224.2	393.9	-153.2	0.00	0.00	
4,700.0	6.94	119.65	4,672.7	-230.2	404.4	-157.3	0.00	0.00	
4,800.0	6.94	119.65	4,771.9	-236.2	414.9	-161.3	0.00	0.00	
4,900.0	6.94	119.65	4,871.2	-242.1	425.4	-165.4	0.00	0.00	
5,000.0	6.94	119.65	4,970.5	-248.1	435.9	-169.5	0.00	0.00	

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Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4R-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
5,100.0	6.94	119.65	5,069.7	-254.1	446.4	-173.6	0.00	0.00	
5,200.0	6.94	119.65	5,169.0	-260.1	456.9	-177.7	0.00	0.00	
5,300.0	6.94	119.65	5,268.3	-266.0	467.4	-181.7	0.00	0.00	
5,400.0	6.94	119.65	5,367.5	-272.0	477.9	-185.8	0.00	0.00	
5,500.0	6.94	119.65	5,466.8	-278.0	488.4	-189.9	0.00	0.00	
5,600.0	6.94	119.65	5,566.1	-284.0	498.9	-194.0	0.00	0.00	
5,700.0	6.94	119.65	5,665.3	-289.9	509.3	-198.1	0.00	0.00	
5,800.0	6.94	119.65	5,764.6	-295.9	519.8	-202.1	0.00	0.00	
5,900.0	6.94	119.65	5,863.9	-301.9	530.3	-206.2	0.00	0.00	
6,000.0	6.94	119.65	5,963.1	-307.9	540.8	-210.3	0.00	0.00	
6,100.0	6.94	119.65	6,062.4	-313.8	551.3	-214.4	0.00	0.00	
6,200.0	6.94	119.65	6,161.7	-319.8	561.8	-218.5	0.00	0.00	
6,300.0	6.94	119.65	6,261.0	-325.8	572.3	-222.6	0.00	0.00	
6,400.0	6.94	119.65	6,360.2	-331.8	582.8	-226.6	0.00	0.00	
6,500.0	6.94	119.65	6,459.5	-337.7	593.3	-230.7	0.00	0.00	
6,600.0	6.94	119.65	6,558.8	-343.7	603.8	-234.8	0.00	0.00	
6,700.0	6.94	119.65	6,658.0	-349.7	614.3	-238.9	0.00	0.00	
6,787.9	6.94	119.65	6,745.2	-354.9	623.5	-242.5	0.00	0.00	Start DLS 8.00 TFO -119.47
6,800.0	6.51	112.17	6,757.3	-355.5	624.8	-242.9	7.99	-3.48	
6,900.0	8.19	47.27	6,856.6	-352.8	635.3	-238.4	8.00	1.68	
7,000.0	14.81	23.57	6,954.6	-336.3	645.6	-220.3	8.00	6.62	
7,100.0	22.34	14.91	7,049.4	-306.1	655.7	-188.9	8.00	7.53	
7,200.0	30.10	10.51	7,139.0	-263.0	665.1	-144.8	8.00	7.77	
7,300.0	37.96	7.79	7,221.8	-207.8	673.9	-88.9	8.00	7.86	
7,400.0	45.86	5.89	7,296.2	-141.6	681.8	-22.3	8.00	7.90	
7,500.0	53.78	4.44	7,360.7	-65.5	688.6	53.8	8.00	7.92	
7,600.0	61.72	3.26	7,414.0	18.8	694.2	137.8	8.00	7.94	
7,700.0	69.67	2.25	7,455.1	109.7	698.6	228.2	8.00	7.95	
7,800.0	77.62	1.33	7,483.2	205.6	701.5	323.1	8.00	7.95	
7,900.0	85.57	0.47	7,497.9	304.4	703.1	420.7	8.00	7.95	
7,955.7	90.00	0.00	7,500.0	360.0	703.3	475.5	8.00	7.96	Start 540.0 hold at 7955.7 MD
8,000.0	90.00	0.00	7,500.0	404.4	703.3	519.2	0.00	0.00	
8,100.0	90.00	0.00	7,500.0	504.4	703.3	617.7	0.00	0.00	
8,200.0	90.00	0.00	7,500.0	604.4	703.3	716.2	0.00	0.00	
8,300.0	90.00	0.00	7,500.0	704.4	703.3	814.8	0.00	0.00	
8,400.0	90.00	0.00	7,500.0	804.4	703.3	913.3	0.00	0.00	
8,495.7	90.00	0.00	7,500.0	900.0	703.3	1,007.5	0.00	0.00	Start 2850.0 hold at 8495.7 MD - Interp @ 7500
8,500.0	90.00	0.00	7,500.0	904.4	703.3	1,011.8	0.00	0.00	
8,600.0	90.00	0.00	7,500.0	1,004.4	703.3	1,110.3	0.00	0.00	
8,700.0	90.00	0.00	7,500.0	1,104.4	703.3	1,208.8	0.00	0.00	
8,800.0	90.00	0.00	7,500.0	1,204.4	703.3	1,307.3	0.00	0.00	
8,900.0	90.00	0.00	7,500.0	1,304.4	703.3	1,405.8	0.00	0.00	
9,000.0	90.00	0.00	7,500.0	1,404.4	703.3	1,504.3	0.00	0.00	
9,100.0	90.00	0.00	7,500.0	1,504.4	703.3	1,602.9	0.00	0.00	
9,200.0	90.00	0.00	7,500.0	1,604.4	703.3	1,701.4	0.00	0.00	
9,300.0	90.00	0.00	7,500.0	1,704.4	703.3	1,799.9	0.00	0.00	
9,400.0	90.00	0.00	7,500.0	1,804.4	703.3	1,898.4	0.00	0.00	
9,500.0	90.00	0.00	7,500.0	1,904.4	703.3	1,996.9	0.00	0.00	
9,600.0	90.00	0.00	7,500.0	2,004.4	703.3	2,095.4	0.00	0.00	
9,700.0	90.00	0.00	7,500.0	2,104.4	703.3	2,193.9	0.00	0.00	
9,800.0	90.00	0.00	7,500.0	2,204.4	703.3	2,292.4	0.00	0.00	
9,900.0	90.00	0.00	7,500.0	2,304.4	703.3	2,391.0	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	15' KB @ 5003.0ft
Site:	S32-T2N-R68W (File/Hwy 52) NEW	North Reference:	True
Well:	HWY 4R-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	0.00	7,500.0	2,404.4	703.3	2,489.5	0.00	0.00	
10,100.0	90.00	0.00	7,500.0	2,504.4	703.3	2,588.0	0.00	0.00	
10,200.0	90.00	0.00	7,500.0	2,604.4	703.3	2,686.5	0.00	0.00	
10,300.0	90.00	0.00	7,500.0	2,704.4	703.3	2,785.0	0.00	0.00	
10,400.0	90.00	0.00	7,500.0	2,804.4	703.3	2,883.5	0.00	0.00	
10,500.0	90.00	0.00	7,500.0	2,904.4	703.3	2,982.0	0.00	0.00	
10,600.0	90.00	0.00	7,500.0	3,004.4	703.3	3,080.5	0.00	0.00	
10,700.0	90.00	0.00	7,500.0	3,104.4	703.3	3,179.0	0.00	0.00	
10,800.0	90.00	0.00	7,500.0	3,204.4	703.3	3,277.6	0.00	0.00	
10,900.0	90.00	0.00	7,500.0	3,304.4	703.3	3,376.1	0.00	0.00	
11,000.0	90.00	0.00	7,500.0	3,404.4	703.3	3,474.6	0.00	0.00	
11,100.0	90.00	0.00	7,500.0	3,504.4	703.3	3,573.1	0.00	0.00	
11,200.0	90.00	0.00	7,500.0	3,604.4	703.3	3,671.6	0.00	0.00	
11,300.0	90.00	0.00	7,500.0	3,704.4	703.3	3,770.1	0.00	0.00	
11,345.7	90.00	0.00	7,500.0	3,750.0	703.3	3,815.1	0.00	0.00	Start DLS 1.76 TFO 90.00
11,400.0	90.00	0.96	7,500.0	3,804.4	703.8	3,868.7	1.76	0.00	
11,500.0	90.00	2.71	7,500.0	3,904.3	707.0	3,967.7	1.76	0.00	
11,600.0	90.00	4.47	7,500.0	4,004.1	713.2	4,067.1	1.76	0.00	
11,700.0	90.00	6.23	7,500.0	4,103.7	722.5	4,166.8	1.76	0.00	
11,800.0	90.00	7.99	7,500.0	4,202.9	734.9	4,266.7	1.76	0.00	
11,828.3	90.00	8.48	7,500.0	4,230.9	739.0	4,294.9	1.76	0.00	Start 29.2 hold at 11828.3 MD
11,857.5	90.00	8.48	7,500.0	4,259.7	743.3	4,324.1	0.00	0.00	TD at 11857.5 - HWY 4R PBHL NEW

Targets

Target Name - hit/miss target - Shape	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	900.0	703.3	1,276,658.98	3,133,692.79	40.091824	-105.022164
HWY 4R PBHL NEW - plan hits target center - Point	0.00	0.00	7,500.0	4,259.7	743.3	1,280,018.88	3,133,714.74	40.101047	-105.022021

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	Start Build 1.00
1,193.5	1,191.9	-20.7	36.4	Start 5594.3 hold at 1193.5 MD
6,787.9	6,745.2	-354.9	623.5	Start DLS 8.00 TFO -119.47
7,955.7	7,500.0	360.0	703.3	Start 540.0 hold at 7955.7 MD
8,495.7	7,500.0	900.0	703.3	Start 2850.0 hold at 8495.7 MD
11,345.7	7,500.0	3,750.0	703.3	Start DLS 1.76 TFO 90.00
11,828.3	7,500.0	4,230.9	739.0	Start 29.2 hold at 11828.3 MD
11,857.5	7,500.0	4,259.7	743.3	TD at 11857.5

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4R-32H-O268

OH

PLAN #1

Anticollision Report

09 June, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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	11,860.0	PLAN #1 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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	11,721.3	7,551.1	800.6	709.6	8.797	CC, ES
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	11,800.0	7,551.1	805.4	712.9	8.707	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,300.0	7,628.5	790.4	716.1	10.637	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,387.5	7,630.1	785.5	712.3	10.719	CC, ES
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,857.5	7,392.0	721.5	630.7	7.947	CC, ES, SF
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,793.1	7,700.0	184.1	112.3	2.563	CC, ES, SF
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	11,686.5	7,438.0	684.3	595.8	7.732	CC, ES
ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS	11,700.0	7,438.0	684.4	595.8	7.723	SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,271.4	7,459.0	523.2	459.8	8.252	CC
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,300.0	7,459.0	523.9	459.5	8.129	ES
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,400.0	7,459.0	538.7	471.7	8.039	SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,316.0	7,445.9	83.7	2.5	1.031	Level 2, CC, ES, SF
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	1,341.1	1,325.0	273.3	266.8	42.027	CC, ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,700.0	1,653.8	298.9	290.4	35.433	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	5,163.9	5,034.0	928.4	907.8	45.125	CC, ES
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,200.0	5,034.0	929.1	908.4	45.028	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

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 4R-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 4R-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)						
NELSON 5 - VESSELS WELL - NO SURVEYS						Out of range
NELSON 5 TT - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	8,549.0	7,456.5	86.2	50.4	2.411	CC, ES, SF
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	1,103.4	1,086.6	322.6	318.7	83.181	CC, ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	9,200.0	7,677.6	688.7	629.8	11.689	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,650.4	1,637.6	39.2	33.0	6.316	CC, ES
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,700.0	1,686.5	40.0	33.5	6.238	SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	151.8	142.8	343.3	342.9	741.647	CC, ES
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	8,200.0	7,630.4	761.4	723.7	20.207	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	3,731.2	3,911.8	519.1	489.5	17.588	CC, ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	4,100.0	4,243.0	543.8	511.0	16.591	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,300.0	6,378.7	202.5	165.6	5.482	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,355.3	6,432.5	202.1	165.5	5.523	CC, ES
RAY NELSON 7-8-32 - DD - Plan #1	545.3	535.1	345.3	343.5	188.328	CC
RAY NELSON 7-8-32 - DD - Plan #1	700.0	684.6	345.6	343.2	145.341	ES
RAY NELSON 7-8-32 - DD - Plan #1	6,950.0	7,024.0	602.2	576.1	23.039	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY						Out of range
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY						Out of range
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	345.5			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	3,700.0	3,559.0	986.5	970.7	62.714	SF
SCHRINER 11-5 - KERR-MCGEE - SURVEYS						Out of range
SCHRINER 12-5 - KERR-MCGEE - SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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)	Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	169.8	169.5	477.058	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	169.8	169.2	261.617	ES
HWY 4A-32H-O268 - OH - PLAN #1	5,000.0	4,913.1	982.8	965.4	56.746	SF
HWY 4B-32H-O268 - OH - PLAN #1	216.3	217.3	160.0	159.3	227.162	CC
HWY 4B-32H-O268 - OH - PLAN #1	300.0	300.0	160.0	159.0	160.876	ES
HWY 4B-32H-O268 - OH - PLAN #1	5,800.0	5,723.5	999.2	979.1	49.774	SF
HWY 4C-32H-O268 - OH - PLAN #1	216.3	217.3	150.0	149.3	212.865	CC
HWY 4C-32H-O268 - OH - PLAN #1	300.0	300.0	150.0	149.0	150.751	ES
HWY 4C-32H-O268 - OH - PLAN #1	7,300.0	7,343.3	971.7	945.5	37.026	SF
HWY 4D-32H-O268 - OH - PLAN #1	869.1	877.9	132.6	129.6	44.193	CC
HWY 4D-32H-O268 - OH - PLAN #1	900.0	908.8	132.7	129.6	42.672	ES
HWY 4D-32H-O268 - OH - PLAN #1	7,500.0	7,394.3	438.2	411.9	16.654	SF
HWY 4E-32H-O268 - OH - PLAN #1	1,031.0	1,042.5	118.6	115.1	33.174	CC, ES
HWY 4E-32H-O268 - OH - PLAN #1	7,300.0	7,314.6	239.5	212.6	8.897	SF
HWY 4F-32H-O268 - OH - PLAN #1	7,459.9	7,403.0	51.1	24.9	1.951	CC, ES, SF
HWY 4G-32H-O268 - OH - PLAN #1	1,888.4	1,904.1	92.9	85.7	12.906	CC
HWY 4G-32H-O268 - OH - PLAN #1	2,000.0	2,015.3	93.4	85.5	11.865	ES
HWY 4G-32H-O268 - OH - PLAN #1	2,900.0	2,911.8	128.4	114.4	9.160	SF
HWY 4H-32H-O268 - OH - Plan #1	316.3	317.3	99.9	98.8	94.805	CC
HWY 4H-32H-O268 - OH - Plan #1	500.0	500.9	99.9	98.2	58.876	ES
HWY 4H-32H-O268 - OH - Plan #1	3,200.0	3,212.9	178.6	162.6	11.110	SF
HWY 4I-32H-O268 - OH - PLAN #1	306.1	306.1	90.1	89.1	88.671	CC
HWY 4I-32H-O268 - OH - PLAN #1	500.0	499.9	90.2	88.5	53.138	ES
HWY 4I-32H-O268 - OH - PLAN #1	2,400.0	2,414.7	118.3	106.5	10.027	SF
HWY 4J-32H-O268 - OH - PLAN #1	300.0	300.0	80.0	79.0	80.435	CC
HWY 4J-32H-O268 - OH - PLAN #1	500.0	499.7	80.3	78.6	46.944	ES
HWY 4J-32H-O268 - OH - PLAN #1	1,700.0	1,711.3	117.1	109.2	14.793	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	69.9	69.3	108.316	CC
HWY 4K-32H-O268 - OH - PLAN #1	400.0	399.7	70.3	69.0	51.427	ES
HWY 4K-32H-O268 - OH - PLAN #1	1,400.0	1,410.0	97.5	91.3	15.680	SF
HWY 4L-32H-O268 - OH - PLAN #1	500.0	500.0	59.9	58.2	35.367	CC, ES
HWY 4L-32H-O268 - OH - PLAN #1	900.0	898.3	73.8	70.7	23.861	SF
HWY 4M-32H-O268 - OH - PLAN #1	500.0	500.0	50.1	48.4	29.583	CC, ES
HWY 4M-32H-O268 - OH - PLAN #1	900.0	899.0	63.2	60.1	20.422	SF
HWY 4N-32H-O268 - OH - PLAN #1	500.0	500.0	40.0	38.3	23.633	CC, ES
HWY 4N-32H-O268 - OH - PLAN #1	11,828.3	12,062.9	848.5	697.9	5.636	SF
HWY 4O-32H-O268 - OH - PLAN #1	500.0	500.0	29.9	28.2	17.683	CC, ES
HWY 4O-32H-O268 - OH - PLAN #1	11,700.0	11,583.5	592.6	444.0	3.988	SF
HWY 4P-32H-O268 - OH - PLAN #1	500.0	500.0	19.9	18.2	11.734	CC, ES
HWY 4P-32H-O268 - OH - PLAN #1	11,600.0	11,560.2	460.4	314.6	3.158	SF
HWY 4Q-32H-O268 - OH - PLAN #1	500.0	500.0	10.1	8.4	5.950	CC
HWY 4Q-32H-O268 - OH - PLAN #1	11,400.0	11,387.4	121.7	-17.5	0.874	Level 1, ES, SF
HWY 4S-32H-O268 - OH - PLAN #1	400.0	400.0	10.1	8.7	7.495	CC, ES
HWY 4S-32H-O268 - OH - PLAN #1	11,857.5	11,878.1	164.9	9.6	1.062	Level 2, SF
HWY 4T-32H-O268 - OH - PLAN #1	303.4	303.4	20.1	19.1	20.013	CC
HWY 4T-32H-O268 - OH - PLAN #1	400.0	399.8	20.4	19.0	15.147	ES
HWY 4T-32H-O268 - OH - PLAN #1	11,857.5	11,927.8	494.9	339.6	3.187	SF
HWY 4U-32H-O268 - OH - PLAN #1	300.0	300.0	29.9	28.9	30.094	CC, ES
HWY 4U-32H-O268 - OH - PLAN #1	11,857.5	11,956.7	659.9	504.6	4.249	SF
HWY 4V-32H-O268 - OH - PLAN #1	203.3	203.3	40.0	39.4	60.858	CC
HWY 4V-32H-O268 - OH - PLAN #1	300.0	299.7	40.2	39.2	40.454	ES
HWY 4V-32H-O268 - OH - PLAN #1	11,857.5	11,988.8	825.0	669.6	5.311	SF
HWY 4W-32H-O268 - OH - PLAN #1	200.0	200.0	50.1	49.4	77.555	CC, ES

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 4R-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 4R-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)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4W-32H-O268 - OH - PLAN #1	1,300.0	1,284.4	107.5	102.9	23.452	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON 31-32 - 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						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		
11,200.0	7,500.0	7,551.1	7,447.0	67.4	23.6	-90.00	4,216.9	-70.4	986.8	912.6	74.14	13.310		
11,300.0	7,500.0	7,551.1	7,447.0	69.1	23.6	-90.00	4,216.9	-70.4	928.0	850.6	77.41	11.988		
11,345.7	7,500.0	7,551.1	7,447.0	69.9	23.6	-90.00	4,216.9	-70.4	903.6	824.6	78.96	11.444		
11,400.0	7,500.0	7,551.1	7,447.0	70.8	23.6	-90.00	4,216.9	-70.4	877.2	796.3	80.85	10.849		
11,500.0	7,500.0	7,551.1	7,447.0	72.5	23.6	-90.00	4,216.9	-70.4	837.8	753.4	84.36	9.931		
11,600.0	7,500.0	7,551.1	7,447.0	74.2	23.6	-90.00	4,216.9	-70.4	812.0	724.3	87.69	9.259		
11,700.0	7,500.0	7,551.1	7,447.0	75.9	23.6	-90.00	4,216.9	-70.4	800.9	710.4	90.51	8.849		
11,721.3	7,500.0	7,551.1	7,447.0	76.3	23.6	-90.00	4,216.9	-70.4	800.6	709.6	91.01	8.797 CC, ES		
11,800.0	7,500.0	7,551.1	7,447.0	77.7	23.6	-90.00	4,216.9	-70.4	805.4	712.9	92.50	8.707 SF		
11,828.3	7,500.0	7,551.1	7,447.0	78.2	23.6	-90.00	4,216.9	-70.4	809.4	716.6	92.89	8.714		
11,857.5	7,500.0	7,551.1	7,447.0	78.7	23.6	-90.00	4,216.9	-70.4	814.8	721.6	93.20	8.742		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON 32-32 - ENCANA WELL - SURVEYS											Offset Site Error:		0.0 ft	
Survey Program: 71-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						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		
9,800.0	7,500.0	7,619.8	7,414.7	44.2	27.6	-87.64	2,791.6	-81.6	980.9	911.6	69.31	14.153		
9,900.0	7,500.0	7,621.5	7,416.4	45.8	27.6	-87.77	2,791.6	-81.7	924.5	853.2	71.24	12.976		
10,000.0	7,500.0	7,623.3	7,418.2	47.4	27.6	-87.90	2,791.7	-81.7	875.9	803.0	72.91	12.013		
10,100.0	7,500.0	7,625.0	7,419.9	49.1	27.6	-88.03	2,791.7	-81.8	836.5	762.4	74.10	11.288		
10,200.0	7,500.0	7,626.8	7,421.7	50.7	27.6	-88.15	2,791.7	-81.8	807.6	733.0	74.62	10.822		
10,300.0	7,500.0	7,628.5	7,423.4	52.3	27.6	-88.28	2,791.8	-81.9	790.4	716.1	74.31	10.637	SF	
10,387.5	7,500.0	7,630.1	7,425.0	53.8	27.6	-88.39	2,791.8	-81.9	785.5	712.3	73.29	10.719	CC, ES	
10,400.0	7,500.0	7,630.3	7,425.2	54.0	27.6	-88.41	2,791.8	-81.9	785.6	712.6	73.09	10.750		
10,500.0	7,500.0	7,632.0	7,426.9	55.7	27.6	-88.53	2,791.8	-82.0	793.6	722.5	71.04	11.171		
10,600.0	7,500.0	7,633.8	7,428.7	57.3	27.6	-88.66	2,791.9	-82.0	813.8	745.4	68.39	11.900		
10,700.0	7,500.0	7,635.5	7,430.4	59.0	27.6	-88.79	2,791.9	-82.1	845.4	780.0	65.43	12.922		
10,800.0	7,500.0	7,637.2	7,432.1	60.7	27.6	-88.91	2,791.9	-82.1	887.3	824.8	62.44	14.209		
10,900.0	7,500.0	7,639.0	7,433.9	62.3	27.6	-89.04	2,791.9	-82.2	937.9	878.3	59.67	15.720		
11,000.0	7,500.0	7,640.7	7,435.6	64.0	27.6	-89.17	2,792.0	-82.2	996.1	938.9	57.21	17.412		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON 41-32 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8170-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		
11,200.0	7,500.0	7,392.0	7,392.0	67.4	12.9	90.00	4,238.8	1,464.4	990.9	933.0	57.90	17.114		
11,300.0	7,500.0	7,392.0	7,392.0	69.1	12.9	90.00	4,238.8	1,464.4	930.1	867.1	62.94	14.776		
11,345.7	7,500.0	7,392.0	7,392.0	69.9	12.9	90.00	4,238.8	1,464.4	904.6	839.2	65.38	13.835		
11,400.0	7,500.0	7,392.0	7,392.0	70.8	12.9	90.00	4,238.8	1,464.4	876.0	807.7	68.35	12.817		
11,500.0	7,500.0	7,392.0	7,392.0	72.5	12.9	90.00	4,238.8	1,464.4	828.1	754.2	73.89	11.207		
11,600.0	7,500.0	7,392.0	7,392.0	74.2	12.9	90.00	4,238.8	1,464.4	787.0	707.7	79.34	9.920		
11,700.0	7,500.0	7,392.0	7,392.0	75.9	12.9	90.00	4,238.8	1,464.4	754.1	669.7	84.41	8.934		
11,800.0	7,500.0	7,392.0	7,392.0	77.7	12.9	90.00	4,238.8	1,464.4	730.4	641.7	88.75	8.230		
11,828.3	7,500.0	7,392.0	7,392.0	78.2	12.9	90.00	4,238.8	1,464.4	725.5	635.7	89.80	8.079		
11,857.5	7,500.0	7,392.0	7,392.0	78.7	12.9	90.00	4,238.8	1,464.4	721.5	630.7	90.78	7.947	CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON 6-4-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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)	Total Uncertainty Axis			
8,900.0	7,500.0	7,701.7	7,458.5	30.5	30.4	-89.54	2,197.4	519.2	911.9	870.9	41.01	22.235		
9,000.0	7,500.0	7,701.5	7,458.3	31.9	30.4	-89.48	2,197.4	519.2	814.2	772.0	42.20	19.295		
9,100.0	7,500.0	7,701.3	7,458.1	33.4	30.4	-89.42	2,197.4	519.2	717.1	673.5	43.68	16.417		
9,200.0	7,500.0	7,701.1	7,457.9	34.9	30.4	-89.36	2,197.4	519.2	621.0	575.4	45.60	13.618		
9,300.0	7,500.0	7,700.9	7,457.7	36.4	30.4	-89.30	2,197.4	519.2	526.4	478.2	48.18	10.924		
9,400.0	7,500.0	7,700.7	7,457.6	37.9	30.4	-89.24	2,197.4	519.2	434.1	382.3	51.77	8.384		
9,500.0	7,500.0	7,700.5	7,457.4	39.5	30.4	-89.18	2,197.4	519.2	346.1	289.2	56.94	6.079		
9,600.0	7,500.0	7,700.3	7,457.2	41.0	30.4	-89.12	2,197.4	519.2	266.8	202.6	64.23	4.154		
9,700.0	7,500.0	7,700.2	7,457.0	42.6	30.4	-89.06	2,197.4	519.2	206.3	134.2	72.13	2.861		
9,793.1	7,500.0	7,700.0	7,456.8	44.1	30.4	-89.00	2,197.4	519.2	184.1	112.3	71.83	2.563 CC, ES, SF		
9,800.0	7,500.0	7,700.0	7,456.8	44.2	30.4	-89.00	2,197.4	519.2	184.3	113.0	71.24	2.587		
9,900.0	7,500.0	7,699.8	7,456.6	45.8	30.4	-88.94	2,197.4	519.2	212.9	156.0	56.89	3.743		
10,000.0	7,500.0	7,699.6	7,456.4	47.4	30.4	-88.88	2,197.4	519.2	277.0	233.5	43.52	6.365		
10,100.0	7,500.0	7,699.4	7,456.2	49.1	30.4	-88.82	2,197.4	519.2	357.9	321.6	36.27	9.869		
10,200.0	7,500.0	7,698.0	7,454.8	50.7	30.4	-88.39	2,197.4	519.2	446.6	413.7	32.96	13.550		
10,300.0	7,500.0	7,698.0	7,454.8	52.3	30.4	-88.39	2,197.4	519.2	539.3	507.7	31.61	17.059		
10,400.0	7,500.0	7,698.0	7,454.8	54.0	30.4	-88.39	2,197.4	519.2	634.2	603.1	31.17	20.345		
10,500.0	7,500.0	7,698.0	7,454.8	55.7	30.4	-88.39	2,197.4	519.2	730.5	699.3	31.15	23.448		
10,600.0	7,500.0	7,698.0	7,454.8	57.3	30.4	-88.39	2,197.4	519.2	827.6	796.3	31.33	26.419		
10,700.0	7,500.0	7,698.0	7,454.8	59.0	30.4	-88.39	2,197.4	519.2	925.4	893.8	31.59	29.295		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7690-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		
11,100.0	7,500.0	7,438.0	7,438.0	65.7	13.0	-90.00	4,161.6	40.6	933.4	864.6	68.77	13.573		
11,200.0	7,500.0	7,438.0	7,438.0	67.4	13.0	-90.00	4,161.6	40.6	865.9	793.3	72.60	11.926		
11,300.0	7,500.0	7,438.0	7,438.0	69.1	13.0	-90.00	4,161.6	40.6	805.2	728.5	76.62	10.509		
11,345.7	7,500.0	7,438.0	7,438.0	69.9	13.0	-90.00	4,161.6	40.6	780.1	701.7	78.45	9.944		
11,400.0	7,500.0	7,438.0	7,438.0	70.8	13.0	-90.00	4,161.6	40.6	753.3	672.7	80.61	9.345		
11,500.0	7,500.0	7,438.0	7,438.0	72.5	13.0	-90.00	4,161.6	40.6	714.3	630.1	84.27	8.477		
11,600.0	7,500.0	7,438.0	7,438.0	74.2	13.0	-90.00	4,161.6	40.6	690.8	603.8	87.09	7.933		
11,686.5	7,500.0	7,438.0	7,438.0	75.7	13.0	-90.00	4,161.6	40.6	684.3	595.8	88.50	7.732 CC, ES		
11,700.0	7,500.0	7,438.0	7,438.0	75.9	13.0	-90.00	4,161.6	40.6	684.4	595.8	88.62	7.723 SF		
11,800.0	7,500.0	7,438.0	7,438.0	77.7	13.0	-90.00	4,161.6	40.6	695.6	606.9	88.67	7.845		
11,828.3	7,500.0	7,438.0	7,438.0	78.2	13.0	-90.00	4,161.6	40.6	701.8	613.4	88.42	7.937		
11,857.5	7,500.0	7,438.0	7,438.0	78.7	13.0	-90.00	4,161.6	40.6	709.5	621.5	88.06	8.057		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7765-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
9,500.0	7,500.0	7,459.0	7,459.0	39.5	13.0	90.00	2,675.7	1,226.5	932.0	900.5	31.53	29.558		
9,600.0	7,500.0	7,459.0	7,459.0	41.0	13.0	90.00	2,675.7	1,226.5	851.1	817.7	33.45	25.445		
9,700.0	7,500.0	7,459.0	7,459.0	42.6	13.0	90.00	2,675.7	1,226.5	774.7	738.6	36.13	21.445		
9,800.0	7,500.0	7,459.0	7,459.0	44.2	13.0	90.00	2,675.7	1,226.5	704.2	664.5	39.67	17.752		
9,900.0	7,500.0	7,459.0	7,459.0	45.8	13.0	90.00	2,675.7	1,226.5	641.6	597.5	44.11	14.546		
10,000.0	7,500.0	7,459.0	7,459.0	47.4	13.0	90.00	2,675.7	1,226.5	589.3	540.0	49.32	11.949		
10,100.0	7,500.0	7,459.0	7,459.0	49.1	13.0	90.00	2,675.7	1,226.5	550.5	495.6	54.93	10.023		
10,200.0	7,500.0	7,459.0	7,459.0	50.7	13.0	90.00	2,675.7	1,226.5	528.0	467.8	60.24	8.765		
10,271.4	7,500.0	7,459.0	7,459.0	51.9	13.0	90.00	2,675.7	1,226.5	523.2	459.8	63.40	8.252 CC		
10,300.0	7,500.0	7,459.0	7,459.0	52.3	13.0	90.00	2,675.7	1,226.5	523.9	459.5	64.45	8.129 ES		
10,400.0	7,500.0	7,459.0	7,459.0	54.0	13.0	90.00	2,675.7	1,226.5	538.7	471.7	67.01	8.039 SF		
10,500.0	7,500.0	7,459.0	7,459.0	55.7	13.0	90.00	2,675.7	1,226.5	570.9	503.0	67.91	8.407		
10,600.0	7,500.0	7,459.0	7,459.0	57.3	13.0	90.00	2,675.7	1,226.5	617.8	550.3	67.53	9.149		
10,700.0	7,500.0	7,459.0	7,459.0	59.0	13.0	90.00	2,675.7	1,226.5	676.3	609.9	66.38	10.189		
10,800.0	7,500.0	7,459.0	7,459.0	60.7	13.0	90.00	2,675.7	1,226.5	743.7	678.9	64.88	11.464		
10,900.0	7,500.0	7,459.0	7,459.0	62.3	13.0	90.00	2,675.7	1,226.5	817.8	754.6	63.28	12.924		
11,000.0	7,500.0	7,459.0	7,459.0	64.0	13.0	90.00	2,675.7	1,226.5	897.0	835.3	61.73	14.530		
11,100.0	7,500.0	7,459.0	7,459.0	65.7	13.0	90.00	2,675.7	1,226.5	980.0	919.7	60.30	16.252		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - ANDERSON TRUST C 1 - ENCANA WELL - GYRO													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 Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,500.0	7,462.0	7,460.3	54.0	13.2	101.72	3,720.1	786.8	919.7	887.3	32.46	28.334		
10,500.0	7,500.0	7,460.0	7,458.4	55.7	13.2	100.43	3,720.1	786.8	820.2	787.9	32.30	25.390		
10,600.0	7,500.0	7,458.1	7,456.5	57.3	13.2	99.17	3,720.2	786.8	720.8	688.7	32.11	22.449		
10,700.0	7,500.0	7,456.3	7,454.6	59.0	13.2	97.93	3,720.2	786.8	621.6	589.7	31.88	19.500		
10,800.0	7,500.0	7,454.5	7,452.8	60.7	13.1	96.71	3,720.2	786.9	522.7	491.1	31.64	16.520		
10,900.0	7,500.0	7,452.7	7,451.1	62.3	13.1	95.52	3,720.3	786.9	424.3	392.8	31.52	13.464		
11,000.0	7,500.0	7,451.0	7,449.4	64.0	13.1	94.36	3,720.3	786.9	326.9	294.9	31.95	10.232		
11,100.0	7,500.0	7,449.3	7,447.7	65.7	13.1	93.22	3,720.3	787.0	231.7	197.0	34.66	6.684		
11,200.0	7,500.0	7,447.7	7,446.1	67.4	13.1	92.11	3,720.3	787.0	143.1	97.0	46.08	3.104		
11,300.0	7,500.0	7,446.1	7,444.5	69.1	13.1	91.02	3,720.4	787.0	85.2	7.6	77.61	1.098 Level 2		
11,316.0	7,500.0	7,445.9	7,444.2	69.4	13.1	90.85	3,720.4	787.0	83.7	2.5	81.23	1.031 Level 2, CC, ES, SF		
11,345.7	7,500.0	7,445.4	7,443.8	69.9	13.1	90.53	3,720.4	787.0	88.8	6.7	82.08	1.082 Level 2		
11,400.0	7,500.0	7,444.6	7,442.9	70.8	13.1	89.95	3,720.4	787.0	118.2	46.0	72.21	1.637		
11,500.0	7,500.0	7,443.0	7,441.4	72.5	13.1	88.95	3,720.4	787.0	200.6	144.1	56.49	3.551		
11,600.0	7,500.0	7,441.4	7,439.8	74.2	13.1	88.09	3,720.4	787.1	293.1	244.3	48.79	6.008		
11,700.0	7,500.0	7,439.9	7,438.2	75.9	13.1	87.42	3,720.5	787.1	388.6	344.1	44.53	8.728		
11,800.0	7,500.0	7,438.3	7,436.7	77.7	13.1	86.95	3,720.5	787.1	485.2	443.4	41.81	11.605		
11,828.3	7,500.0	7,437.9	7,436.2	78.2	13.1	86.85	3,720.5	787.1	512.7	471.5	41.21	12.440		
11,857.5	7,500.0	7,437.4	7,435.8	78.7	13.1	86.63	3,720.5	787.1	541.1	500.4	40.66	13.309		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	53.48	202.6	273.6	340.6					
100.0	100.0	88.5	88.5	0.1	0.1	53.55	202.6	274.2	340.9	340.6	0.28	1,231.526		
200.0	200.0	188.1	188.1	0.3	0.3	53.66	202.5	275.3	341.7	341.1	0.63	546.211		
300.0	300.0	289.5	289.4	0.5	0.5	53.80	202.2	276.4	342.5	341.5	0.98	350.271		
400.0	400.0	399.6	399.6	0.7	0.7	54.14	199.9	276.6	341.4	340.1	1.35	253.021		
500.0	500.0	507.4	507.1	0.8	0.9	55.03	193.3	276.4	337.7	335.9	1.73	195.192		
600.0	600.0	615.6	614.6	1.0	1.2	-63.07	181.2	276.8	331.3	329.2	2.15	154.073		
700.0	700.0	719.4	717.1	1.2	1.5	-60.96	164.4	277.8	322.1	319.5	2.62	122.962		
800.0	799.9	813.5	809.6	1.4	1.8	-58.85	147.5	279.8	312.7	309.6	3.10	100.885		
900.0	899.7	910.9	905.2	1.6	2.1	-56.54	129.4	283.6	304.1	300.4	3.63	83.762		
1,000.0	999.4	1,011.2	1,003.3	1.8	2.5	-53.90	109.0	288.3	295.0	290.8	4.23	69.749		
1,100.0	1,098.9	1,108.1	1,097.0	2.0	3.0	-50.56	85.1	294.4	285.6	280.7	4.90	58.245		
1,193.5	1,191.9	1,191.0	1,176.6	2.2	3.4	-47.28	63.1	301.6	278.2	272.7	5.52	50.407		
1,200.0	1,198.3	1,198.4	1,183.7	2.2	3.4	-46.98	61.1	302.4	277.8	272.2	5.57	49.848		
1,300.0	1,297.5	1,288.2	1,269.5	2.5	3.9	-43.04	36.7	313.1	273.7	267.4	6.24	43.843		
1,341.1	1,338.3	1,325.0	1,304.5	2.6	4.1	-41.37	26.7	318.2	273.3	266.8	6.50	42.027 CC, ES		
1,400.0	1,396.8	1,377.8	1,354.8	2.7	4.4	-39.02	12.7	326.3	274.1	267.2	6.86	39.944		
1,500.0	1,496.1	1,467.5	1,439.9	3.0	4.9	-35.12	-10.5	342.2	279.1	271.7	7.43	37.570		
1,600.0	1,595.3	1,561.3	1,528.5	3.2	5.4	-31.09	-35.3	360.6	287.6	279.6	7.97	36.079		
1,700.0	1,694.6	1,653.8	1,615.7	3.5	5.9	-27.47	-59.0	380.1	298.9	290.4	8.43	35.433 SF		
1,800.0	1,793.9	1,744.2	1,700.5	3.8	6.5	-24.13	-82.7	400.8	313.4	304.6	8.85	35.434		
1,900.0	1,893.1	1,838.7	1,788.2	4.0	7.1	-20.62	-109.3	423.8	330.9	321.6	9.25	35.768		
2,000.0	1,992.4	1,935.9	1,878.1	4.3	7.8	-17.05	-138.6	446.5	349.1	339.4	9.61	36.321		
2,100.0	2,091.7	2,033.8	1,969.1	4.6	8.4	-14.20	-165.7	470.3	368.6	358.7	9.93	37.119		
2,200.0	2,190.9	2,128.5	2,057.6	4.8	9.0	-11.93	-190.4	493.3	388.3	378.1	10.23	37.951		
2,300.0	2,290.2	2,224.5	2,146.9	5.1	9.6	-9.74	-216.4	517.0	409.5	399.0	10.50	38.985		
2,400.0	2,389.5	2,323.9	2,239.7	5.4	10.3	-7.94	-241.6	542.0	430.8	420.0	10.79	39.904		
2,500.0	2,488.7	2,419.6	2,329.2	5.6	10.9	-6.34	-266.0	565.9	452.3	441.2	11.07	40.861		
2,600.0	2,588.0	2,533.3	2,435.8	5.9	11.6	-4.45	-295.4	591.7	472.3	460.8	11.43	41.306		
2,700.0	2,687.3	2,632.3	2,529.4	6.2	12.2	-2.82	-321.0	611.8	490.4	478.7	11.70	41.931		
2,800.0	2,786.6	2,715.9	2,607.9	6.5	12.7	-1.51	-343.3	629.7	510.3	498.4	11.89	42.932		
2,900.0	2,885.8	2,797.2	2,683.1	6.7	13.3	-0.09	-368.0	648.2	533.7	521.7	12.04	44.319		
3,000.0	2,985.1	2,886.2	2,764.8	7.0	14.0	1.40	-396.3	669.5	559.4	547.2	12.23	45.728		
3,100.0	3,084.4	2,988.1	2,858.2	7.3	14.7	2.88	-428.2	694.6	585.8	573.3	12.51	46.845		
3,200.0	3,183.6	3,099.9	2,961.8	7.5	15.5	4.38	-462.0	720.0	610.2	597.4	12.83	47.551		
3,300.0	3,282.9	3,196.2	3,051.3	7.8	16.1	5.60	-490.7	740.6	633.6	620.5	13.07	48.465		
3,400.0	3,382.2	3,279.7	3,128.6	8.1	16.7	6.67	-516.8	758.7	658.2	645.0	13.26	49.627		
3,500.0	3,481.4	3,366.2	3,207.8	8.4	17.4	7.84	-545.9	777.3	684.8	671.3	13.46	50.875		
3,600.0	3,580.7	3,491.9	3,323.9	8.6	18.2	9.34	-586.4	803.7	710.2	696.4	13.84	51.324		
3,700.0	3,680.0	3,627.4	3,451.3	8.9	19.0	10.53	-623.9	830.3	731.8	717.6	14.26	51.332		
3,800.0	3,779.2	3,820.6	3,638.4	9.2	19.8	12.04	-664.6	854.8	743.4	728.6	14.80	50.231		
3,900.0	3,878.5	3,915.3	3,731.4	9.4	20.2	12.68	-680.6	863.6	749.8	734.7	15.07	49.768		
4,000.0	3,977.8	4,021.9	3,836.0	9.7	20.6	13.25	-697.1	874.7	756.4	741.0	15.36	49.253		
4,100.0	4,077.0	4,127.4	3,940.0	10.0	20.9	13.59	-710.3	886.6	761.5	745.8	15.66	48.620		
4,200.0	4,176.3	4,211.6	4,023.0	10.3	21.2	13.84	-721.1	896.7	767.4	751.4	15.93	48.157		
4,300.0	4,275.6	4,293.3	4,102.9	10.5	21.6	14.15	-733.7	907.3	775.8	759.6	16.19	47.907		
4,400.0	4,374.8	4,372.9	4,180.5	10.8	21.9	14.47	-747.4	918.6	786.4	770.0	16.45	47.818		
4,500.0	4,474.1	4,462.3	4,267.1	11.1	22.3	14.89	-765.1	932.3	799.7	783.0	16.72	47.836		
4,600.0	4,573.4	4,580.7	4,382.2	11.4	22.9	15.29	-786.1	950.9	811.9	794.8	17.08	47.526		
4,700.0	4,672.6	4,658.3	4,457.6	11.6	23.2	15.58	-800.1	962.5	823.8	806.5	17.34	47.514		
4,800.0	4,771.9	4,732.7	4,529.3	11.9	23.6	15.93	-816.0	974.4	839.0	821.4	17.57	47.752		
4,900.0	4,871.2	4,805.0	4,598.4	12.2	24.0	16.25	-832.7	987.5	856.9	839.1	17.79	48.175		

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 4R-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 4R-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) - BROWN 41-5 - ENCANA WELL - ENCANA WELL				Offset Site Error:		0.0 ft
Survey Program:										41-Geolink MWD				Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)						
5,000.0	4,970.5	4,877.3	4,666.7	12.4	24.5	16.57	-851.2	1,002.0	878.1	860.1	18.00	48.775				
5,100.0	5,069.7	4,973.8	4,757.4	12.7	25.1	17.14	-878.7	1,020.7	901.1	882.8	18.32	49.173				
5,200.0	5,169.0	5,089.9	4,867.0	13.0	25.8	17.91	-911.5	1,040.2	922.2	903.4	18.73	49.234				
5,300.0	5,268.3	5,204.1	4,975.2	13.3	26.5	18.71	-943.4	1,057.6	942.3	923.2	19.12	49.276				
5,400.0	5,367.5	5,294.0	5,060.8	13.5	27.0	19.24	-967.2	1,071.7	961.5	942.1	19.42	49.502				
5,500.0	5,466.8	5,381.0	5,143.2	13.8	27.5	19.68	-990.7	1,086.8	982.3	962.6	19.72	49.812				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5034-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		
4,200.0	4,176.3	4,140.3	4,140.3	10.3	7.2	-50.57	152.0	1,283.7	996.1	979.7	16.40	60.752		
4,300.0	4,275.6	4,239.6	4,239.6	10.5	7.4	-51.11	152.0	1,283.7	988.4	971.6	16.83	58.717		
4,400.0	4,374.8	4,338.8	4,338.8	10.8	7.6	-51.65	152.0	1,283.7	980.9	963.6	17.27	56.783		
4,500.0	4,474.1	4,438.1	4,438.1	11.1	7.7	-52.21	152.0	1,283.7	973.4	955.7	17.72	54.944		
4,600.0	4,573.4	4,537.4	4,537.4	11.4	7.9	-52.77	152.0	1,283.7	966.0	947.9	18.16	53.194		
4,700.0	4,672.6	4,636.6	4,636.6	11.6	8.1	-53.35	152.0	1,283.7	958.7	940.1	18.61	51.527		
4,800.0	4,771.9	4,735.9	4,735.9	11.9	8.3	-53.93	152.0	1,283.7	951.5	932.5	19.05	49.938		
4,900.0	4,871.2	4,835.2	4,835.2	12.2	8.4	-54.51	152.0	1,283.7	944.4	924.9	19.50	48.422		
5,000.0	4,970.5	4,934.5	4,934.5	12.4	8.6	-55.11	152.0	1,283.7	937.4	917.5	19.96	46.975		
5,100.0	5,069.7	5,033.7	5,033.7	12.7	8.8	-55.72	152.0	1,283.7	930.6	910.1	20.41	45.592		
5,163.9	5,133.1	5,034.0	5,034.0	12.9	8.8	-55.72	152.0	1,283.7	928.4	907.8	20.57	45.125 CC, ES		
5,200.0	5,169.0	5,034.0	5,034.0	13.0	8.8	-55.72	152.0	1,283.7	929.1	908.4	20.63	45.028 SF		
5,300.0	5,268.3	5,034.0	5,034.0	13.3	8.8	-55.72	152.0	1,283.7	938.3	917.6	20.68	45.375		
5,400.0	5,367.5	5,034.0	5,034.0	13.5	8.8	-55.72	152.0	1,283.7	957.9	937.4	20.56	46.595		
5,500.0	5,466.8	5,034.0	5,034.0	13.8	8.8	-55.72	152.0	1,283.7	987.3	967.0	20.30	48.637		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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) - NELSON E UNIT 2 - ENCANA - SURVEYS													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		
7,550.0	7,388.8	7,319.9	7,318.1	17.9	13.0	3.74	949.5	792.2	979.3	948.4	30.83	31.758		
7,600.0	7,414.0	7,345.1	7,343.3	18.0	13.1	5.46	950.1	791.7	936.8	905.8	30.92	30.297		
7,650.0	7,436.1	7,367.6	7,365.8	18.2	13.1	7.66	950.8	791.2	892.6	861.6	30.99	28.802		
7,700.0	7,455.1	7,387.2	7,385.4	18.4	13.1	10.65	951.3	790.8	847.0	815.9	31.05	27.279		
7,750.0	7,470.8	7,403.9	7,402.1	18.6	13.2	14.96	951.8	790.5	800.1	769.0	31.09	25.736		
7,800.0	7,483.2	7,418.1	7,416.3	18.8	13.2	21.61	952.3	790.2	752.2	721.1	31.11	24.177		
7,850.0	7,492.3	7,428.8	7,427.0	19.1	13.2	32.48	952.6	790.0	703.5	672.4	31.11	22.612		
7,900.0	7,497.9	7,436.0	7,434.1	19.4	13.2	50.65	952.8	789.8	654.4	623.3	31.09	21.047		
7,950.0	7,500.0	7,439.6	7,437.7	19.7	13.2	76.94	952.9	789.8	604.9	573.9	31.04	19.490		
7,955.7	7,500.0	7,439.8	7,437.9	19.7	13.2	80.11	952.9	789.8	599.3	568.3	31.03	19.314		
8,000.0	7,500.0	7,441.0	7,439.2	20.1	13.2	80.93	952.9	789.7	555.5	524.6	30.96	17.944		
8,100.0	7,500.0	7,443.9	7,442.1	20.9	13.2	82.78	953.0	789.7	457.0	426.3	30.71	14.882		
8,200.0	7,500.0	7,446.8	7,444.9	21.8	13.2	84.64	953.1	789.6	359.3	329.1	30.28	11.869		
8,300.0	7,500.0	7,449.6	7,447.7	22.9	13.2	86.50	953.1	789.6	263.4	233.9	29.50	8.928		
8,400.0	7,500.0	7,452.4	7,450.5	24.0	13.3	88.36	953.2	789.5	172.1	143.8	28.26	6.089		
8,495.7	7,500.0	7,455.0	7,453.2	25.1	13.3	90.12	953.3	789.5	101.3	71.7	29.65	3.417		
8,500.0	7,500.0	7,455.2	7,453.3	25.2	13.3	90.20	953.3	789.5	99.1	69.1	30.00	3.303		
8,549.0	7,500.0	7,456.5	7,454.7	25.8	13.3	91.10	953.3	789.4	86.2	50.4	35.73	2.411	CC, ES, SF	
8,600.0	7,500.0	7,457.9	7,456.1	26.4	13.3	92.04	953.4	789.4	100.1	60.7	39.40	2.541		
8,700.0	7,500.0	7,460.7	7,458.8	27.7	13.3	93.86	953.5	789.4	173.8	135.3	38.51	4.513		
8,800.0	7,500.0	7,463.4	7,461.5	29.1	13.3	95.66	953.5	789.3	265.3	228.1	37.20	7.132		
8,900.0	7,500.0	7,466.1	7,464.2	30.5	13.3	97.43	953.6	789.3	361.3	324.8	36.47	9.906		
9,000.0	7,500.0	7,468.8	7,466.9	31.9	13.3	99.19	953.7	789.2	459.0	422.9	36.07	12.725		
9,100.0	7,500.0	7,471.4	7,469.5	33.4	13.3	100.91	953.7	789.2	557.5	521.7	35.84	15.556		
9,200.0	7,500.0	7,474.1	7,472.2	34.9	13.3	102.60	953.8	789.1	656.4	620.7	35.71	18.384		
9,300.0	7,500.0	7,476.7	7,474.8	36.4	13.3	104.27	953.9	789.1	755.6	720.0	35.64	21.201		
9,400.0	7,500.0	7,479.3	7,477.4	37.9	13.3	105.89	954.0	789.0	855.0	819.4	35.62	24.006		
9,500.0	7,500.0	7,481.9	7,480.0	39.5	13.3	107.49	954.0	789.0	954.5	918.9	35.62	26.795		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 33-32 - ENCANA WELL - ENCANA WELL												Offset Site Error: 0.0 ft	
Survey Program: 926-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						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	49.05	224.8	259.1	343.1				
100.0	100.0	92.8	92.8	0.1	0.2	49.05	224.7	259.0	342.9	342.6	0.31	1,114.513	
200.0	200.0	193.6	193.6	0.3	0.3	49.05	224.5	258.7	342.6	341.9	0.66	522.691	
300.0	300.0	294.5	294.5	0.5	0.5	49.05	224.1	258.3	342.0	341.0	1.00	340.919	
400.0	400.0	395.3	395.3	0.7	0.7	49.05	223.5	257.6	341.1	339.8	1.35	252.546	
500.0	500.0	496.1	496.1	0.8	0.9	49.06	222.8	256.8	340.0	338.3	1.70	200.210	
600.0	600.0	597.0	596.9	1.0	1.1	-70.75	221.9	255.8	338.4	336.4	2.05	165.369	
700.0	700.0	697.7	697.7	1.2	1.2	-71.19	220.9	254.6	336.0	333.6	2.40	140.188	
800.0	799.9	798.4	798.4	1.4	1.4	-71.94	219.6	253.2	332.7	330.0	2.75	120.928	
900.0	899.7	899.0	898.9	1.6	1.6	-73.00	218.3	251.7	328.8	325.7	3.11	105.566	
1,000.0	999.4	995.8	995.7	1.8	1.8	-74.50	217.7	249.6	324.7	321.2	3.49	93.099	
1,100.0	1,098.9	1,083.7	1,083.5	2.0	1.9	-76.56	220.2	247.3	322.6	318.7	3.86	83.463	
1,103.4	1,102.3	1,086.6	1,086.4	2.0	1.9	-76.64	220.3	247.3	322.6	318.7	3.88	83.181	CC, ES
1,193.5	1,191.9	1,165.2	1,164.9	2.2	2.0	-78.89	225.6	246.3	324.2	319.9	4.24	76.499	
1,200.0	1,198.3	1,170.8	1,170.4	2.2	2.0	-79.07	226.1	246.3	324.4	320.1	4.26	76.105	
1,300.0	1,297.5	1,259.3	1,258.4	2.5	2.2	-81.94	235.1	246.0	330.3	325.6	4.67	70.741	
1,400.0	1,396.8	1,350.4	1,348.8	2.7	2.4	-84.93	246.7	246.4	339.6	334.5	5.09	66.663	
1,500.0	1,496.1	1,437.7	1,435.0	3.0	2.6	-87.93	260.5	246.3	352.3	346.8	5.51	63.934	
1,600.0	1,595.3	1,530.2	1,526.0	3.2	2.8	-91.09	277.5	246.1	368.3	362.4	5.94	61.967	
1,700.0	1,694.6	1,616.4	1,610.3	3.5	3.1	-94.04	295.2	245.1	387.1	380.7	6.35	60.940	
1,800.0	1,793.9	1,703.2	1,694.7	3.8	3.4	-97.01	315.6	243.2	409.4	402.7	6.75	60.615	
1,900.0	1,893.1	1,794.9	1,783.3	4.0	3.8	-99.98	338.7	240.6	434.3	427.1	7.17	60.593	
2,000.0	1,992.4	1,878.2	1,863.5	4.3	4.1	-102.51	360.9	237.9	461.5	454.0	7.53	61.289	
2,100.0	2,091.7	1,968.4	1,950.0	4.6	4.5	-105.06	386.5	234.5	491.3	483.4	7.92	62.065	
2,200.0	2,190.9	2,057.3	2,034.9	4.8	5.0	-107.47	412.4	229.9	522.5	514.2	8.29	63.003	
2,300.0	2,290.2	2,136.4	2,109.9	5.1	5.4	-109.60	436.9	224.1	556.0	547.3	8.61	64.565	
2,400.0	2,389.5	2,228.6	2,196.9	5.4	5.9	-111.85	466.6	217.2	591.5	582.5	8.98	65.876	
2,500.0	2,488.7	2,316.1	2,279.7	5.6	6.4	-113.56	494.6	212.7	627.7	618.4	9.32	67.389	
2,600.0	2,588.0	2,411.2	2,369.6	5.9	6.9	-115.20	525.1	208.1	664.5	654.8	9.70	68.541	
2,700.0	2,687.3	2,502.4	2,455.9	6.2	7.4	-116.69	554.1	202.6	701.4	691.4	10.05	69.806	
2,800.0	2,786.6	2,591.1	2,539.8	6.5	7.9	-118.02	582.5	197.2	738.9	728.5	10.39	71.126	
2,900.0	2,885.8	2,675.9	2,619.8	6.7	8.4	-119.19	610.1	191.8	777.3	766.6	10.71	72.580	
3,000.0	2,985.1	2,759.0	2,697.9	7.0	8.9	-120.23	638.0	186.5	816.8	805.8	11.02	74.114	
3,100.0	3,084.4	2,857.3	2,790.4	7.3	9.5	-121.36	670.8	180.1	856.6	845.2	11.41	75.090	
3,200.0	3,183.6	2,953.3	2,880.8	7.5	10.1	-122.39	702.3	173.6	896.0	884.2	11.78	76.059	
3,300.0	3,282.9	3,054.8	2,976.8	7.8	10.6	-123.39	734.5	166.5	934.6	922.4	12.18	76.752	
3,400.0	3,382.2	3,148.8	3,065.8	8.1	11.2	-124.25	763.8	160.1	972.9	960.3	12.54	77.582	
8,495.7	7,500.0	7,670.5	7,486.9	25.1	27.2	-89.57	1,561.6	15.9	954.0	909.9	44.14	21.615	
8,500.0	7,500.0	7,670.5	7,486.9	25.2	27.2	-89.58	1,561.6	15.9	951.0	906.8	44.24	21.498	
8,600.0	7,500.0	7,671.5	7,487.9	26.4	27.2	-89.66	1,561.6	15.9	884.9	838.2	46.67	18.961	
8,700.0	7,500.0	7,672.5	7,488.9	27.7	27.2	-89.74	1,561.6	15.9	825.6	776.3	49.29	16.751	
8,800.0	7,500.0	7,673.5	7,489.9	29.1	27.2	-89.83	1,561.6	15.9	774.7	722.7	51.98	14.904	
8,900.0	7,500.0	7,674.5	7,490.9	30.5	27.2	-89.91	1,561.6	15.9	733.9	679.4	54.55	13.455	
9,000.0	7,500.0	7,675.6	7,491.9	31.9	27.2	-90.00	1,561.6	15.9	705.1	648.4	56.73	12.429	
9,100.0	7,500.0	7,676.6	7,493.0	33.4	27.2	-90.08	1,561.6	15.9	689.8	631.5	58.26	11.839	
9,157.3	7,500.0	7,677.1	7,493.5	34.2	27.2	-90.13	1,561.6	15.9	687.4	628.6	58.75	11.700	
9,200.0	7,500.0	7,677.6	7,494.0	34.9	27.2	-90.16	1,561.6	15.9	688.7	629.8	58.92	11.689	SF
9,300.0	7,500.0	7,678.6	7,495.0	36.4	27.2	-90.25	1,561.7	15.9	702.0	643.4	58.66	11.968	
9,400.0	7,500.0	7,679.6	7,496.0	37.9	27.2	-90.33	1,561.7	15.9	729.0	671.3	57.61	12.654	
9,500.0	7,500.0	7,680.6	7,497.0	39.5	27.2	-90.42	1,561.7	15.9	768.1	712.0	56.00	13.714	
9,600.0	7,500.0	7,681.6	7,498.0	41.0	27.2	-90.50	1,561.7	15.9	817.6	763.5	54.10	15.112	
9,700.0	7,500.0	7,682.6	7,499.0	42.6	27.2	-90.58	1,561.7	15.9	875.8	823.6	52.11	16.805	

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 4R-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 4R-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 33-32 - ENCANA WELL - ENCANA WELL			Offset Site Error:		0.0 ft	
Survey Program: 926-Geolink MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
9,800.0	7,500.0	7,683.6	7,500.0	44.2	27.2	-90.67	1,561.7	15.9	941.0	890.8	50.19	18.749					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 34-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	97.18	-13.4	106.6	107.7					
100.0	100.0	91.3	91.3	0.1	0.1	97.14	-13.4	106.9	107.7	107.4	0.28	378.515		
200.0	200.0	190.9	190.9	0.3	0.3	97.12	-13.5	107.7	108.5	107.9	0.63	172.322		
300.0	300.0	291.1	291.1	0.5	0.5	97.29	-13.9	108.6	109.5	108.5	0.98	111.814		
400.0	400.0	391.2	391.2	0.7	0.7	97.65	-14.7	109.3	110.3	109.0	1.33	82.991		
500.0	500.0	491.3	491.3	0.8	0.8	98.00	-15.4	109.9	110.9	109.3	1.68	66.099		
600.0	600.0	591.4	591.4	1.0	1.0	-21.60	-15.9	110.4	110.7	108.7	2.03	54.602		
700.0	700.0	691.7	691.7	1.2	1.2	-21.93	-16.3	110.7	108.7	106.3	2.38	45.709		
800.0	799.9	791.8	791.7	1.4	1.4	-22.76	-16.5	110.9	104.8	102.1	2.73	38.416		
900.0	899.7	892.0	892.0	1.6	1.5	-24.13	-16.5	110.8	99.1	96.1	3.08	32.182		
1,000.0	999.4	991.8	991.8	1.8	1.7	-26.22	-16.4	110.4	91.6	88.2	3.44	26.655		
1,100.0	1,098.9	1,091.5	1,091.5	2.0	1.9	-29.12	-16.5	109.8	82.5	78.7	3.80	21.732		
1,193.5	1,191.9	1,184.7	1,184.7	2.2	2.0	-33.30	-16.4	109.0	72.7	68.5	4.15	17.517		
1,200.0	1,198.3	1,191.1	1,191.1	2.2	2.1	-33.66	-16.4	108.9	71.9	67.8	4.17	17.239		
1,300.0	1,297.5	1,290.1	1,290.1	2.5	2.2	-40.38	-16.0	107.8	61.2	56.6	4.57	13.391		
1,400.0	1,396.8	1,389.2	1,389.2	2.7	2.4	-49.98	-15.3	106.8	51.8	46.8	5.00	10.357		
1,500.0	1,496.1	1,488.5	1,488.4	3.0	2.6	-63.68	-14.4	105.4	44.3	38.8	5.48	8.082		
1,600.0	1,595.3	1,587.7	1,587.6	3.2	2.7	-81.67	-13.6	103.7	39.9	33.9	5.98	6.666		
1,650.4	1,645.4	1,637.6	1,637.5	3.4	2.8	-91.81	-13.3	102.7	39.2	33.0	6.21	6.316 CC, ES		
1,700.0	1,694.6	1,686.5	1,686.4	3.5	2.9	-101.66	-13.0	101.8	40.0	33.5	6.40	6.238 SF		
1,800.0	1,793.9	1,785.4	1,785.3	3.8	3.1	-118.77	-11.8	100.6	45.2	38.4	6.72	6.723		
1,900.0	1,893.1	1,884.1	1,884.0	4.0	3.3	-131.35	-10.2	99.3	53.9	46.9	6.98	7.716		
2,000.0	1,992.4	1,983.5	1,983.3	4.3	3.4	-140.11	-8.5	98.2	64.6	57.3	7.26	8.897		
2,100.0	2,091.7	2,083.3	2,083.2	4.6	3.6	-146.37	-7.6	97.4	75.5	68.0	7.55	9.999		
2,200.0	2,190.9	2,183.4	2,183.2	4.8	3.8	-151.14	-7.8	97.0	85.9	78.0	7.85	10.933		
2,300.0	2,290.2	2,282.6	2,282.4	5.1	4.0	-154.93	-8.4	96.7	96.3	88.2	8.16	11.799		
2,400.0	2,389.5	2,382.3	2,382.1	5.4	4.1	-158.04	-9.0	96.3	107.2	98.7	8.48	12.640		
2,500.0	2,488.7	2,481.6	2,481.4	5.6	4.3	-160.88	-10.4	95.7	117.8	109.0	8.80	13.387		
2,600.0	2,588.0	2,577.7	2,577.4	5.9	4.5	-164.07	-12.3	93.0	129.8	120.7	9.10	14.267		
2,700.0	2,687.3	2,677.6	2,677.2	6.2	4.7	-167.81	-15.3	87.5	143.4	134.0	9.41	15.239		
2,800.0	2,786.6	2,777.0	2,776.3	6.5	4.8	-171.49	-20.1	81.7	156.6	146.9	9.73	16.100		
2,900.0	2,885.8	2,874.5	2,873.3	6.7	5.0	-175.28	-26.5	74.7	170.6	160.6	10.06	16.967		
3,000.0	2,985.1	2,971.4	2,969.6	7.0	5.2	-178.64	-32.9	66.7	186.0	175.6	10.40	17.889		
3,100.0	3,084.4	3,066.8	3,064.2	7.3	5.4	-177.96	-40.7	57.1	202.8	192.1	10.76	18.856		
3,200.0	3,183.6	3,162.6	3,158.7	7.5	5.7	-174.27	-50.5	44.8	222.0	210.8	11.14	19.921		
3,300.0	3,282.9	3,260.0	3,254.9	7.8	5.9	-171.17	-60.4	32.6	241.7	230.2	11.55	20.930		
3,400.0	3,382.2	3,353.3	3,347.0	8.1	6.1	-168.89	-68.5	20.6	262.6	250.7	11.93	22.011		
3,500.0	3,481.4	3,443.9	3,436.2	8.4	6.4	-166.90	-76.4	7.2	285.9	273.6	12.31	23.224		
3,600.0	3,580.7	3,538.8	3,529.3	8.6	6.7	-164.73	-86.1	-8.9	311.1	298.4	12.73	24.434		
3,700.0	3,680.0	3,630.1	3,618.6	8.9	6.9	-162.87	-95.8	-25.1	337.3	324.2	13.14	25.677		
3,800.0	3,779.2	3,731.5	3,717.6	9.2	7.3	-160.75	-108.6	-43.4	363.8	350.2	13.64	26.672		
3,900.0	3,878.5	3,824.7	3,808.2	9.4	7.6	-158.76	-122.4	-60.3	390.4	376.3	14.09	27.701		
4,000.0	3,977.8	3,922.2	3,902.8	9.7	8.0	-156.76	-138.2	-77.6	417.0	402.4	14.59	28.580		
4,100.0	4,077.0	4,011.0	3,988.8	10.0	8.3	-155.13	-152.6	-94.4	445.1	430.1	15.02	29.635		
4,200.0	4,176.3	4,106.9	4,081.8	10.3	8.7	-153.70	-167.1	-112.8	473.9	458.4	15.49	30.589		
4,300.0	4,275.6	4,210.5	4,182.4	10.5	9.1	-152.42	-182.1	-132.1	502.4	486.4	16.02	31.365		
4,400.0	4,374.8	4,312.8	4,282.3	10.8	9.4	-151.41	-196.2	-149.0	529.0	512.5	16.52	32.031		
4,500.0	4,474.1	4,422.8	4,390.2	11.1	9.8	-150.54	-210.2	-165.8	554.5	537.4	17.06	32.508		
4,600.0	4,573.4	4,518.8	4,484.4	11.4	10.1	-149.82	-222.7	-179.0	578.6	561.1	17.51	33.046		
4,700.0	4,672.6	4,615.2	4,578.9	11.6	10.5	-149.12	-235.7	-192.7	603.2	585.3	17.97	33.575		
4,800.0	4,771.9	4,725.5	4,687.5	11.9	10.8	-148.49	-249.5	-206.8	626.5	608.0	18.48	33.896		
4,900.0	4,871.2	4,844.6	4,805.3	12.2	11.2	-148.13	-261.3	-219.3	647.6	628.6	19.01	34.067		

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 4R-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 4R-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 34-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,000.0	4,970.5	4,960.1	4,920.2	12.4	11.4	148.11	-269.2	-227.7	665.3	645.8	19.48	34.153		
5,100.0	5,069.7	5,066.4	5,026.2	12.7	11.6	148.26	-274.5	-233.8	681.4	661.5	19.89	34.257		
5,200.0	5,169.0	5,175.2	5,134.9	13.0	11.8	148.57	-277.8	-238.5	696.1	675.8	20.29	34.305		
5,300.0	5,268.3	5,282.6	5,242.2	13.3	12.0	149.03	-278.9	-241.9	709.6	688.9	20.67	34.334		
5,400.0	5,367.5	5,396.2	5,355.8	13.5	12.2	149.61	-278.7	-243.5	721.4	700.3	21.04	34.287		
5,500.0	5,466.8	5,493.0	5,452.5	13.8	12.3	150.18	-277.5	-244.2	732.6	711.2	21.37	34.283		
5,600.0	5,566.1	5,593.8	5,553.4	14.1	12.4	150.82	-275.2	-245.0	743.9	722.2	21.70	34.282		
5,700.0	5,665.3	5,697.7	5,657.3	14.4	12.6	151.44	-273.2	-245.3	754.8	732.8	22.04	34.247		
5,800.0	5,764.6	5,796.0	5,755.5	14.6	12.7	151.98	-271.8	-245.2	765.4	743.1	22.37	34.217		
5,900.0	5,863.9	5,891.5	5,851.0	14.9	12.8	152.50	-270.2	-245.5	776.5	753.8	22.69	34.221		
6,000.0	5,963.1	5,987.6	5,947.1	15.2	13.0	152.98	-268.9	-246.3	788.1	765.1	23.03	34.227		
6,100.0	6,062.4	6,083.9	6,043.4	15.5	13.1	153.39	-268.5	-247.4	800.1	776.7	23.36	34.247		
6,200.0	6,161.7	6,183.6	6,143.1	15.7	13.2	153.80	-268.1	-248.7	812.3	788.6	23.69	34.282		
6,300.0	6,260.9	6,283.1	6,242.5	16.0	13.4	154.26	-266.6	-249.9	824.4	800.4	24.02	34.317		
6,400.0	6,360.2	6,382.3	6,341.7	16.3	13.5	154.71	-265.3	-251.0	836.6	812.2	24.36	34.345		
6,500.0	6,459.5	6,481.0	6,440.4	16.6	13.7	155.11	-264.4	-252.2	848.8	824.1	24.69	34.381		
6,600.0	6,558.7	6,579.1	6,538.5	16.8	13.8	155.52	-263.1	-253.4	861.1	836.1	25.01	34.430		
6,700.0	6,658.0	6,683.9	6,643.3	17.1	14.0	156.00	-261.0	-254.5	873.3	848.0	25.34	34.462		
6,787.9	6,745.2	6,778.0	6,737.3	17.3	14.1	156.45	-258.7	-254.6	883.4	857.7	25.63	34.464		
6,800.0	6,757.3	6,789.2	6,748.6	17.4	14.1	164.03	-258.4	-254.6	884.7	859.0	25.67	34.468		
6,850.0	6,807.0	6,835.6	6,795.0	17.5	14.2	-159.10	-257.2	-254.6	890.1	864.3	25.80	34.505		
6,900.0	6,856.6	6,882.0	6,841.3	17.6	14.2	-130.71	-255.9	-254.7	895.3	869.4	25.91	34.552		
6,950.0	6,905.9	6,928.1	6,887.4	17.6	14.3	-115.61	-254.6	-255.0	900.3	874.3	26.01	34.609		
7,000.0	6,954.6	6,975.3	6,934.6	17.7	14.4	-107.55	-253.2	-255.5	905.1	879.0	26.10	34.672		
7,050.0	7,002.5	7,023.7	6,983.0	17.7	14.4	-102.98	-251.7	-256.0	909.6	883.4	26.18	34.737		
7,100.0	7,049.3	7,071.2	7,030.5	17.7	14.5	-100.30	-250.1	-256.5	913.9	887.7	26.25	34.810		
7,150.0	7,094.9	7,117.6	7,076.8	17.7	14.5	-98.76	-248.6	-256.9	918.2	891.9	26.31	34.895		
7,200.0	7,139.0	7,163.9	7,123.1	17.8	14.6	-98.00	-247.0	-257.4	922.7	896.3	26.37	34.986		
7,250.0	7,181.4	7,208.4	7,167.6	17.7	14.7	-97.75	-245.9	-257.7	927.4	900.9	26.42	35.096		
7,300.0	7,221.8	7,250.7	7,209.9	17.7	14.7	-97.83	-245.1	-257.9	932.6	906.1	26.46	35.238		
7,350.0	7,260.1	7,290.4	7,249.6	17.8	14.8	-98.10	-244.7	-258.1	938.5	912.0	26.50	35.418		
7,400.0	7,296.2	7,331.0	7,290.1	17.8	14.9	-98.60	-244.3	-258.1	945.5	919.0	26.53	35.635		
7,450.0	7,329.7	7,370.5	7,329.6	17.8	14.9	-99.18	-243.9	-258.0	953.5	927.0	26.57	35.895		
7,500.0	7,360.6	7,407.3	7,366.5	17.9	15.0	-99.72	-243.4	-257.7	962.9	936.3	26.60	36.204		
7,550.0	7,388.8	7,441.3	7,400.4	17.9	15.0	-100.14	-242.7	-257.2	973.8	947.1	26.63	36.569		
7,600.0	7,414.0	7,472.2	7,431.3	18.0	15.0	-100.39	-242.1	-256.6	986.3	959.6	26.66	36.992		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 44-32 - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	51.88	212.1	270.3	343.7						
100.0	100.0	91.7	91.7	0.1	0.1	51.94	211.7	270.4	343.4	343.2	0.29	1,178.418			
151.8	151.8	142.8	142.8	0.2	0.2	52.03	211.2	270.7	343.3	342.9	0.46	741.647 CC, ES			
200.0	200.0	186.1	186.1	0.3	0.3	52.09	211.1	271.1	343.7	343.1	0.62	552.031			
300.0	300.0	275.4	275.3	0.5	0.5	52.13	212.6	273.3	346.6	345.7	0.95	363.912			
400.0	400.0	367.9	367.7	0.7	0.6	52.19	215.5	277.7	352.3	351.0	1.29	273.469			
500.0	500.0	457.9	457.4	0.8	0.8	52.36	219.0	283.9	360.2	358.5	1.62	222.432			
600.0	600.0	549.6	548.6	1.0	1.1	-67.03	223.4	292.7	370.3	368.3	1.95	189.462			
700.0	700.0	641.7	639.9	1.2	1.3	-66.88	228.3	303.3	381.7	379.4	2.29	166.397			
800.0	799.9	731.2	728.5	1.4	1.6	-66.79	233.6	315.7	394.6	391.9	2.64	149.673			
900.0	899.7	826.2	821.9	1.6	1.9	-66.64	238.7	331.4	408.7	405.7	3.01	135.860			
1,000.0	999.4	930.8	924.8	1.8	2.3	-66.45	242.6	349.8	421.8	418.4	3.43	123.060			
1,100.0	1,098.9	1,027.8	1,020.2	2.0	2.6	-66.20	244.0	367.7	433.7	429.8	3.86	112.311			
1,193.5	1,191.9	1,104.0	1,094.6	2.2	3.0	-65.83	244.2	384.1	445.9	441.6	4.26	104.769			
1,200.0	1,198.3	1,114.1	1,104.4	2.2	3.0	-65.79	244.1	386.5	446.8	442.5	4.30	103.878			
1,300.0	1,297.5	1,202.5	1,190.0	2.5	3.4	-65.35	244.2	408.6	462.1	457.4	4.76	97.032			
1,400.0	1,396.8	1,293.8	1,277.9	2.7	3.9	-64.81	244.4	433.4	479.5	474.2	5.25	91.355			
1,500.0	1,496.1	1,391.3	1,371.5	3.0	4.4	-64.18	244.5	460.8	497.6	491.8	5.77	86.275			
1,600.0	1,595.3	1,493.7	1,469.5	3.2	4.9	-63.42	243.4	490.3	515.7	509.3	6.31	81.674			
1,700.0	1,694.6	1,592.9	1,564.8	3.5	5.4	-62.76	242.0	517.7	532.7	525.8	6.84	77.930			
1,800.0	1,793.9	1,685.9	1,654.2	3.8	5.9	-62.31	242.0	543.5	550.6	543.2	7.33	75.082			
1,900.0	1,893.1	1,780.0	1,744.3	4.0	6.4	-61.85	242.3	570.4	569.3	561.5	7.84	72.654			
2,000.0	1,992.4	1,883.4	1,843.3	4.3	7.0	-61.29	241.9	600.4	588.2	579.8	8.39	70.123			
2,100.0	2,091.7	1,988.2	1,943.7	4.6	7.5	-60.65	239.8	630.3	605.9	596.9	8.94	67.795			
2,200.0	2,190.9	2,088.4	2,039.9	4.8	8.0	-60.13	238.0	658.1	623.0	613.6	9.46	65.864			
2,300.0	2,290.2	2,188.8	2,136.4	5.1	8.6	-59.64	236.0	685.6	639.8	629.8	9.99	64.045			
2,400.0	2,389.5	2,290.4	2,234.0	5.4	9.1	-59.06	232.9	713.9	656.5	646.0	10.51	62.447			
2,500.0	2,488.7	2,392.2	2,332.1	5.6	9.6	-58.63	230.5	741.0	672.5	661.4	11.03	60.944			
2,600.0	2,588.0	2,491.5	2,427.8	5.9	10.1	-58.20	227.9	767.3	688.3	676.7	11.55	59.598			
2,700.0	2,687.3	2,595.0	2,527.7	6.2	10.6	-57.82	225.4	794.3	703.8	691.7	12.06	58.344			
2,800.0	2,786.6	2,699.2	2,628.4	6.5	11.1	-57.46	222.6	820.6	718.6	706.0	12.59	57.079			
2,900.0	2,885.8	2,807.0	2,733.0	6.7	11.6	-57.15	219.8	846.9	732.6	719.4	13.11	55.867			
3,000.0	2,985.1	2,918.3	2,841.5	7.0	12.1	-56.94	217.2	871.9	744.9	731.3	13.65	54.556			
3,100.0	3,084.4	3,013.9	2,934.7	7.3	12.5	-56.77	214.7	892.8	756.6	742.5	14.13	53.542			
3,200.0	3,183.6	3,093.9	3,012.6	7.5	12.9	-56.67	213.6	911.1	769.9	755.3	14.56	52.881			
3,300.0	3,282.9	3,186.5	3,102.4	7.8	13.3	-56.56	213.3	933.8	785.1	770.1	15.03	52.253			
3,400.0	3,382.2	3,284.3	3,197.1	8.1	13.8	-56.46	213.1	958.0	800.6	785.0	15.52	51.584			
3,500.0	3,481.4	3,385.7	3,295.2	8.4	14.3	-56.31	212.4	983.4	816.0	800.0	16.03	50.920			
3,600.0	3,580.7	3,496.2	3,402.3	8.6	14.8	-56.03	209.4	1,010.7	830.3	813.7	16.57	50.110			
3,700.0	3,680.0	3,596.8	3,499.7	8.9	15.3	-55.76	206.1	1,035.2	844.1	827.0	17.07	49.454			
3,800.0	3,779.2	3,693.9	3,593.9	9.2	15.7	-55.51	203.0	1,058.8	857.7	840.2	17.54	48.913			
3,900.0	3,878.5	3,787.0	3,684.3	9.4	16.2	-55.43	202.2	1,080.8	871.9	853.9	18.00	48.440			
4,000.0	3,977.8	3,888.9	3,783.4	9.7	16.6	-55.40	202.1	1,104.9	886.5	868.0	18.50	47.928			
4,100.0	4,077.0	4,002.3	3,893.8	10.0	17.1	-55.32	200.9	1,130.7	899.8	880.7	19.05	47.225			
4,200.0	4,176.3	4,094.1	3,983.1	10.3	17.5	-55.16	198.3	1,152.0	912.6	893.1	19.52	46.760			
4,300.0	4,275.6	4,175.0	4,061.5	10.5	17.9	-55.00	196.3	1,172.0	927.1	907.2	19.94	46.505			
4,400.0	4,374.8	4,265.0	4,148.1	10.8	18.4	-54.78	194.1	1,195.8	943.2	922.8	20.38	46.274			
4,500.0	4,474.1	4,393.8	4,272.9	11.1	19.0	-54.58	191.7	1,228.0	958.3	937.3	20.97	45.704			
4,600.0	4,573.4	4,513.6	4,390.0	11.4	19.5	-54.61	191.1	1,253.2	970.2	948.7	21.52	45.084			
4,700.0	4,672.6	4,621.2	4,495.6	11.6	19.9	-54.70	190.9	1,274.2	980.9	958.8	22.04	44.511			
4,800.0	4,771.9	4,728.4	4,600.9	11.9	20.3	-54.84	191.4	1,293.9	990.8	968.2	22.55	43.944			
4,900.0	4,871.2	4,847.8	4,718.7	12.2	20.6	-55.13	193.1	1,313.6	999.5	976.4	23.10	43.265			

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 4R-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 4R-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 44-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,500.0	5,466.8	5,568.7	5,437.0	13.8	21.9	-58.36	200.9	1,365.0	999.1	972.7	26.39	37.855		
5,600.0	5,566.1	5,670.6	5,538.9	14.1	22.0	-58.95	201.7	1,366.8	994.8	967.8	26.93	36.944		
5,700.0	5,665.3	5,773.0	5,641.3	14.4	22.1	-59.57	202.5	1,368.3	990.2	962.8	27.46	36.057		
5,800.0	5,764.6	5,878.5	5,746.7	14.6	22.1	-60.22	203.4	1,369.4	985.4	957.4	28.00	35.191		
5,900.0	5,863.9	5,986.0	5,854.3	14.9	22.2	-60.91	204.1	1,369.5	980.0	951.4	28.55	34.328		
6,000.0	5,963.1	6,082.4	5,950.6	15.2	22.3	-61.55	204.8	1,369.3	974.3	945.2	29.09	33.490		
6,100.0	6,062.4	6,178.4	6,046.7	15.5	22.4	-62.20	205.7	1,369.4	969.1	939.5	29.64	32.697		
6,200.0	6,161.7	6,277.1	6,145.4	15.7	22.5	-62.88	206.8	1,369.5	964.2	934.0	30.19	31.942		
6,300.0	6,260.9	6,376.4	6,244.6	16.0	22.6	-63.59	208.2	1,369.5	959.5	928.8	30.74	31.218		
6,400.0	6,360.2	6,476.6	6,344.8	16.3	22.6	-64.32	209.8	1,369.3	954.9	923.6	31.29	30.518		
6,500.0	6,459.5	6,574.8	6,443.1	16.6	22.7	-65.07	211.6	1,368.9	950.4	918.6	31.84	29.849		
6,600.0	6,558.7	6,671.9	6,540.1	16.8	22.8	-65.82	213.5	1,368.6	946.3	913.9	32.41	29.197		
6,700.0	6,658.0	6,771.4	6,639.6	17.1	22.9	-66.58	215.4	1,368.5	942.4	909.4	32.98	28.579		
6,787.9	6,745.2	6,859.4	6,727.5	17.3	23.0	-67.26	217.0	1,368.3	939.1	905.6	33.47	28.061		
6,800.0	6,757.3	6,872.1	6,740.3	17.4	23.0	-59.90	217.3	1,368.2	938.6	905.0	33.53	27.990		
6,850.0	6,807.0	6,926.7	6,794.8	17.5	23.0	-23.58	218.0	1,368.1	934.9	901.2	33.74	27.706		
6,900.0	6,856.6	6,977.8	6,846.0	17.6	23.1	4.83	218.4	1,367.9	929.0	895.1	33.87	27.424		
6,950.0	6,905.9	7,025.6	6,893.7	17.6	23.1	20.49	218.9	1,367.7	921.0	887.1	33.93	27.146		
7,000.0	6,954.6	7,073.1	6,941.2	17.7	23.2	29.63	219.4	1,367.5	911.0	877.1	33.90	26.871		
7,050.0	7,002.5	7,119.9	6,988.0	17.7	23.2	35.84	219.9	1,367.5	899.1	865.3	33.80	26.602		
7,100.0	7,049.3	7,165.4	7,033.6	17.7	23.2	40.68	220.4	1,367.5	885.4	851.8	33.61	26.345		
7,150.0	7,094.9	7,209.8	7,077.9	17.7	23.3	44.86	221.1	1,367.4	870.2	836.8	33.34	26.102		
7,200.0	7,139.0	7,255.1	7,123.2	17.8	23.3	48.82	221.9	1,367.3	853.4	820.4	32.98	25.876		
7,250.0	7,181.4	7,298.9	7,167.0	17.7	23.4	52.72	222.7	1,367.2	835.4	802.8	32.54	25.674		
7,300.0	7,221.8	7,341.0	7,209.1	17.7	23.4	56.66	223.5	1,367.0	816.3	784.3	32.01	25.503		
7,350.0	7,260.1	7,381.0	7,249.1	17.8	23.4	60.69	224.2	1,366.7	796.6	765.2	31.40	25.371		
7,400.0	7,296.2	7,417.6	7,285.7	17.8	23.5	64.73	224.8	1,366.4	776.6	745.8	30.71	25.283		
7,450.0	7,329.7	7,451.6	7,319.7	17.8	23.5	68.76	225.4	1,366.2	756.7	726.7	29.97	25.245		
7,500.0	7,360.6	7,483.0	7,351.1	17.9	23.5	72.71	225.9	1,366.0	737.5	708.3	29.20	25.252		
7,550.0	7,388.8	7,511.6	7,379.7	17.9	23.5	76.49	226.4	1,365.8	719.4	690.9	28.45	25.287		
7,600.0	7,414.0	7,537.2	7,405.3	18.0	23.6	80.00	226.8	1,365.7	703.0	675.2	27.76	25.319		
7,650.0	7,436.1	7,559.9	7,428.0	18.2	23.6	83.12	227.1	1,365.6	688.7	661.5	27.22	25.299		
7,700.0	7,455.1	7,579.3	7,447.3	18.4	23.6	85.78	227.4	1,365.5	677.2	650.3	26.91	25.168		
7,750.0	7,470.8	7,595.4	7,463.5	18.6	23.6	87.92	227.7	1,365.4	668.9	642.0	26.89	24.876		
7,800.0	7,483.2	7,608.3	7,476.3	18.8	23.6	89.48	227.9	1,365.4	664.2	637.0	27.22	24.404		
7,835.3	7,490.0	7,615.4	7,483.4	19.0	23.6	90.22	228.0	1,365.3	663.2	635.5	27.67	23.970		
7,850.0	7,492.3	7,617.8	7,485.9	19.1	23.6	90.43	228.0	1,365.3	663.4	635.5	27.90	23.778		
7,900.0	7,497.9	7,624.0	7,492.1	19.4	23.6	90.75	228.1	1,365.3	666.6	637.7	28.90	23.063		
7,950.0	7,500.0	7,626.8	7,494.9	19.7	23.7	90.42	228.1	1,365.3	673.9	643.8	30.17	22.342		
7,955.7	7,500.0	7,626.9	7,495.0	19.7	23.7	90.35	228.1	1,365.3	675.0	644.7	30.32	22.263		
8,000.0	7,500.0	7,627.6	7,495.6	20.1	23.7	90.40	228.1	1,365.3	685.1	653.5	31.60	21.680		
8,100.0	7,500.0	7,629.0	7,497.0	20.9	23.7	90.52	228.2	1,365.3	717.3	682.6	34.68	20.682		
8,200.0	7,500.0	7,630.4	7,498.5	21.8	23.7	90.65	228.2	1,365.3	761.4	723.7	37.68	20.207 SF		
8,300.0	7,500.0	7,631.8	7,499.9	22.9	23.7	90.77	228.2	1,365.3	815.5	775.1	40.33	20.218		
8,400.0	7,500.0	7,633.3	7,501.3	24.0	23.7	90.89	228.2	1,365.3	877.6	835.1	42.57	20.617		
8,495.7	7,500.0	7,634.6	7,502.7	25.1	23.7	91.01	228.2	1,365.3	943.2	898.9	44.33	21.278		
8,500.0	7,500.0	7,634.7	7,502.8	25.2	23.7	91.02	228.2	1,365.3	946.3	901.9	44.40	21.314		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4-8-32 - 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)				
1,800.0	1,793.9	2,177.4	2,132.3	3.8	10.3	-93.45	748.3	547.0	995.3	987.2	8.14	122.351		
1,900.0	1,893.1	2,267.2	2,214.8	4.0	10.9	-94.88	724.0	521.2	958.1	949.3	8.77	109.245		
2,000.0	1,992.4	2,357.0	2,297.3	4.3	11.6	-96.42	699.6	495.4	921.4	912.0	9.45	97.545		
2,100.0	2,091.7	2,446.8	2,379.9	4.6	12.2	-98.07	675.2	469.7	885.5	875.3	10.17	87.076		
2,200.0	2,190.9	2,536.6	2,462.4	4.8	12.9	-99.85	650.8	443.9	850.2	839.3	10.94	77.697		
2,300.0	2,290.2	2,626.4	2,544.9	5.1	13.6	-101.77	626.5	418.2	815.8	804.1	11.77	69.293		
2,400.0	2,389.5	2,716.2	2,627.4	5.4	14.2	-103.85	602.1	392.4	782.4	769.7	12.67	61.768		
2,500.0	2,488.7	2,806.0	2,709.9	5.6	14.9	-106.08	577.7	366.6	750.1	736.4	13.63	55.042		
2,600.0	2,588.0	2,895.9	2,792.4	5.9	15.5	-108.49	553.3	340.9	719.0	704.3	14.66	49.046		
2,700.0	2,687.3	2,985.7	2,874.9	6.2	16.2	-111.09	528.9	315.1	689.3	673.5	15.76	43.722		
2,800.0	2,786.6	3,075.5	2,957.4	6.5	16.9	-113.89	504.6	289.4	661.2	644.2	16.95	39.015		
2,900.0	2,885.8	3,165.3	3,040.0	6.7	17.5	-116.90	480.2	263.6	634.9	616.7	18.20	34.881		
3,000.0	2,985.1	3,255.1	3,122.5	7.0	18.2	-120.12	455.8	237.8	610.6	591.1	19.52	31.276		
3,100.0	3,084.4	3,344.9	3,205.0	7.3	18.8	-123.56	431.4	212.1	588.6	567.7	20.90	28.160		
3,200.0	3,183.6	3,434.7	3,287.5	7.5	19.5	-127.20	407.0	186.3	569.2	546.9	22.32	25.498		
3,300.0	3,282.9	3,524.5	3,370.0	7.8	20.2	-131.05	382.7	160.6	552.6	528.9	23.76	23.254		
3,400.0	3,382.2	3,614.3	3,452.5	8.1	20.8	-135.07	358.3	134.8	539.1	513.9	25.20	21.394		
3,500.0	3,481.4	3,704.2	3,535.0	8.4	21.5	-139.23	333.9	109.0	528.9	502.3	26.60	19.888		
3,600.0	3,580.7	3,794.0	3,617.5	8.6	22.2	-143.51	309.5	83.3	522.3	494.3	27.92	18.704		
3,700.0	3,680.0	3,883.8	3,700.0	8.9	22.8	-147.85	285.2	57.5	519.2	490.1	29.15	17.811		
3,731.2	3,711.0	3,911.8	3,725.8	9.0	23.0	-149.21	277.5	49.5	519.1	489.5	29.51	17.588 CC, ES		
3,800.0	3,779.2	3,973.6	3,782.6	9.2	23.5	-152.21	260.8	31.8	519.9	489.7	30.26	17.182		
3,900.0	3,878.5	4,063.4	3,865.1	9.4	24.1	-156.53	236.4	6.0	524.3	493.1	31.24	16.786		
4,000.0	3,977.8	4,153.2	3,947.6	9.7	24.8	-160.77	212.0	-19.8	532.3	500.3	32.07	16.598		
4,100.0	4,077.0	4,243.0	4,030.1	10.0	25.5	-164.89	187.6	-45.5	543.8	511.0	32.78	16.591 SF		
4,200.0	4,176.3	4,332.8	4,112.6	10.3	26.1	-168.84	163.3	-71.3	558.5	525.1	33.36	16.741		
4,300.0	4,275.6	4,422.7	4,195.1	10.5	26.8	-172.62	138.9	-97.0	576.2	542.3	33.84	17.025		
4,400.0	4,374.8	4,512.5	4,277.6	10.8	27.4	-176.18	114.5	-122.8	596.6	562.3	34.24	17.422		
4,500.0	4,474.1	4,602.3	4,360.1	11.1	28.1	-179.54	90.1	-148.6	619.4	584.9	34.58	17.916		
4,600.0	4,573.4	4,692.1	4,442.7	11.4	28.8	-177.32	65.7	-174.3	644.5	609.6	34.86	18.489		
4,700.0	4,672.6	4,781.9	4,525.2	11.6	29.4	-174.39	41.4	-200.1	671.5	636.4	35.11	19.127		
4,800.0	4,771.9	4,871.7	4,607.7	11.9	30.1	-171.67	17.0	-225.8	700.2	664.9	35.33	19.818		
4,900.0	4,871.2	4,961.5	4,690.2	12.2	30.7	-169.14	-7.4	-251.6	730.5	694.9	35.54	20.552		
5,000.0	4,970.5	5,051.3	4,772.7	12.4	31.4	-166.79	-31.8	-277.4	762.1	726.3	35.75	21.318		
5,100.0	5,069.7	5,141.1	4,855.2	12.7	32.1	-164.62	-56.2	-303.1	794.8	758.9	35.95	22.111		
5,200.0	5,169.0	5,231.0	4,937.7	13.0	32.7	-162.61	-80.5	-328.9	828.6	792.5	36.15	22.922		
5,300.0	5,268.3	5,320.8	5,020.2	13.3	33.4	-160.74	-104.9	-354.6	863.3	827.0	36.36	23.747		
5,400.0	5,367.5	5,410.6	5,102.7	13.5	34.0	-159.01	-129.3	-380.4	898.9	862.3	36.57	24.580		
5,500.0	5,466.8	5,500.4	5,185.3	13.8	34.7	-157.40	-153.7	-406.2	935.1	898.3	36.79	25.418		
5,600.0	5,566.1	5,590.2	5,267.8	14.1	35.4	-155.90	-178.0	-431.9	972.0	935.0	37.02	26.258		

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 4R-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 4R-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
2,200.0	2,190.9	2,389.9	2,353.4	4.8	8.3	-80.35	646.9	770.5	982.4	971.5	10.85	90.525		
2,300.0	2,290.2	2,487.2	2,447.2	5.1	8.8	-80.06	621.2	770.1	959.8	948.3	11.46	83.763		
2,400.0	2,389.5	2,584.5	2,541.0	5.4	9.3	-79.75	595.5	769.8	937.2	925.1	12.07	77.653		
2,500.0	2,488.7	2,681.8	2,634.9	5.6	9.7	-79.43	569.8	769.5	914.6	901.9	12.68	72.106		
2,600.0	2,588.0	2,779.1	2,728.7	5.9	10.2	-79.09	544.1	769.2	892.0	878.7	13.30	67.051		
2,700.0	2,687.3	2,876.4	2,822.5	6.2	10.7	-78.74	518.5	768.8	869.5	855.6	13.93	62.425		
2,800.0	2,786.6	2,973.7	2,916.4	6.5	11.2	-78.37	492.8	768.5	847.0	832.5	14.56	58.178		
2,900.0	2,885.8	3,070.9	3,010.2	6.7	11.6	-77.97	467.1	768.2	824.6	809.4	15.20	54.266		
3,000.0	2,985.1	3,168.2	3,104.0	7.0	12.1	-77.56	441.4	767.8	802.2	786.3	15.84	50.652		
3,100.0	3,084.4	3,265.5	3,197.9	7.3	12.6	-77.12	415.7	767.5	779.8	763.3	16.48	47.305		
3,200.0	3,183.6	3,362.8	3,291.7	7.5	13.1	-76.66	390.0	767.2	757.5	740.3	17.14	44.197		
3,300.0	3,282.9	3,460.1	3,385.5	7.8	13.5	-76.16	364.3	766.8	735.2	717.4	17.80	41.304		
3,400.0	3,382.2	3,557.4	3,479.4	8.1	14.0	-75.64	338.7	766.5	713.0	694.5	18.47	38.605		
3,500.0	3,481.4	3,654.7	3,573.2	8.4	14.5	-75.08	313.0	766.2	690.8	671.7	19.15	36.084		
3,600.0	3,580.7	3,751.9	3,667.0	8.6	15.0	-74.49	287.3	765.8	668.7	648.9	19.83	33.724		
3,700.0	3,680.0	3,849.2	3,760.9	8.9	15.4	-73.86	261.6	765.5	646.7	626.2	20.52	31.511		
3,800.0	3,779.2	3,946.5	3,854.7	9.2	15.9	-73.18	235.9	765.2	624.8	603.6	21.23	29.433		
3,900.0	3,878.5	4,043.8	3,948.5	9.4	16.4	-72.45	210.2	764.9	602.9	581.0	21.94	27.480		
4,000.0	3,977.8	4,141.1	4,042.4	9.7	16.9	-71.67	184.5	764.5	581.2	558.5	22.67	25.642		
4,100.0	4,077.0	4,238.4	4,136.2	10.0	17.3	-70.83	158.9	764.2	559.6	536.2	23.40	23.910		
4,200.0	4,176.3	4,335.7	4,230.1	10.3	17.8	-69.92	133.2	763.9	538.1	513.9	24.15	22.278		
4,300.0	4,275.6	4,433.0	4,323.9	10.5	18.3	-68.94	107.5	763.5	516.7	491.8	24.91	20.738		
4,400.0	4,374.8	4,530.2	4,417.7	10.8	18.8	-67.88	81.8	763.2	495.5	469.8	25.69	19.286		
4,500.0	4,474.1	4,627.5	4,511.6	11.1	19.2	-66.72	56.1	762.9	474.4	448.0	26.48	17.916		
4,600.0	4,573.4	4,724.8	4,605.4	11.4	19.7	-65.45	30.4	762.5	453.6	426.3	27.29	16.624		
4,700.0	4,672.6	4,822.1	4,699.2	11.6	20.2	-64.06	4.7	762.2	433.0	404.9	28.11	15.405		
4,800.0	4,771.9	4,919.4	4,793.1	11.9	20.7	-62.54	-20.9	761.9	412.7	383.8	28.95	14.258		
4,900.0	4,871.2	5,016.7	4,886.9	12.2	21.1	-60.87	-46.6	761.5	392.7	362.9	29.80	13.180		
5,000.0	4,970.5	5,114.0	4,980.7	12.4	21.6	-59.02	-72.3	761.2	373.1	342.4	30.66	12.168		
5,100.0	5,069.7	5,211.2	5,074.6	12.7	22.1	-56.97	-98.0	760.9	353.8	322.3	31.53	11.221		
5,200.0	5,169.0	5,308.5	5,168.4	13.0	22.6	-54.69	-123.7	760.5	335.1	302.7	32.41	10.339		
5,300.0	5,268.3	5,405.8	5,262.2	13.3	23.1	-52.15	-149.4	760.2	316.9	283.7	33.28	9.523		
5,400.0	5,367.5	5,503.1	5,356.1	13.5	23.5	-49.32	-175.1	759.9	299.5	265.3	34.14	8.771		
5,500.0	5,466.8	5,600.4	5,449.9	13.8	24.0	-46.15	-200.7	759.6	282.8	247.9	34.97	8.088		
5,600.0	5,566.1	5,697.7	5,543.7	14.1	24.5	-42.61	-226.4	759.2	267.2	231.4	35.75	7.473		
5,700.0	5,665.3	5,795.0	5,637.6	14.4	25.0	-38.67	-252.1	758.9	252.6	216.2	36.44	6.932		
5,800.0	5,764.6	5,892.3	5,731.4	14.6	25.4	-34.28	-277.8	758.6	239.5	202.5	37.02	6.469		
5,900.0	5,863.9	5,989.5	5,825.2	14.9	25.9	-29.43	-303.5	758.2	227.9	190.5	37.44	6.087		
6,000.0	5,963.1	6,086.8	5,919.1	15.2	26.4	-24.13	-329.2	757.9	218.2	180.5	37.66	5.793		
6,100.0	6,062.4	6,184.1	6,012.9	15.5	26.9	-18.42	-354.9	757.6	210.5	172.9	37.65	5.592		
6,200.0	6,161.7	6,281.4	6,106.7	15.7	27.3	-12.36	-380.5	757.2	205.3	167.9	37.41	5.487		
6,300.0	6,260.9	6,378.7	6,200.6	16.0	27.8	-6.07	-406.2	756.9	202.5	165.6	36.94	5.482 SF		
6,355.3	6,315.9	6,432.5	6,252.5	16.2	28.1	-2.54	-420.4	756.7	202.1	165.5	36.59	5.523 CC, ES		
6,400.0	6,360.2	6,476.0	6,294.4	16.3	28.3	0.31	-431.9	756.6	202.4	166.1	36.28	5.577		
6,500.0	6,459.5	6,573.9	6,388.9	16.6	28.7	6.65	-457.7	756.2	204.8	169.4	35.46	5.776		
6,600.0	6,558.7	6,676.4	6,488.3	16.8	28.8	12.58	-482.5	755.9	208.3	173.8	34.49	6.040		
6,700.0	6,658.0	6,780.1	6,589.8	17.1	28.8	17.66	-503.9	755.6	211.2	177.5	33.72	6.264		
6,787.9	6,745.2	6,872.0	6,680.3	17.3	28.9	21.50	-519.7	755.4	212.7	179.5	33.20	6.406		
6,800.0	6,757.3	6,884.7	6,692.9	17.4	28.9	29.43	-521.7	755.4	212.9	179.8	33.14	6.424		
6,850.0	6,807.0	6,937.1	6,744.7	17.5	29.0	68.03	-529.2	755.3	215.1	182.3	32.84	6.549		
6,900.0	6,856.6	6,989.2	6,796.4	17.6	29.0	98.59	-535.8	755.2	219.8	187.3	32.51	6.760		
6,950.0	6,905.9	7,040.8	6,847.7	17.6	29.0	116.23	-541.3	755.2	227.1	194.9	32.16	7.060		

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 4R-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 4R-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,000.0	6,954.6	7,092.1	6,898.7	17.7	29.1	127.07	-545.9	755.1	237.1	205.3	31.83	7.449		
7,050.0	7,002.5	7,142.7	6,949.3	17.7	29.1	134.61	-549.5	755.1	249.9	218.4	31.53	7.927		
7,100.0	7,049.3	7,192.7	6,999.2	17.7	29.2	140.32	-552.3	755.0	265.6	234.4	31.29	8.491		
7,150.0	7,094.9	7,241.9	7,048.3	17.7	29.2	144.89	-554.1	755.0	284.2	253.1	31.10	9.138		
7,200.0	7,139.0	7,290.2	7,096.6	17.8	29.2	148.66	-555.0	755.0	305.5	274.5	30.98	9.862		
7,250.0	7,181.4	7,335.9	7,142.4	17.7	29.3	151.73	-555.2	755.0	329.6	298.7	30.92	10.660		
7,300.0	7,221.8	7,376.4	7,182.8	17.7	29.3	154.13	-555.2	755.0	356.7	325.8	30.93	11.536		
7,350.0	7,260.1	7,414.7	7,221.1	17.8	29.3	156.11	-555.2	755.0	387.0	356.0	30.97	12.495		
7,400.0	7,296.2	7,450.7	7,257.2	17.8	29.3	157.72	-555.2	755.0	420.1	389.1	31.05	13.531		
7,450.0	7,329.7	7,484.3	7,290.7	17.8	29.4	159.00	-555.2	755.0	455.9	424.8	31.15	14.638		
7,500.0	7,360.6	7,515.2	7,321.6	17.9	29.4	159.96	-555.2	755.0	494.2	462.9	31.26	15.811		
7,550.0	7,388.8	7,543.3	7,349.8	17.9	29.4	160.61	-555.2	755.0	534.7	503.3	31.37	17.043		
7,600.0	7,414.0	7,568.5	7,375.0	18.0	29.4	160.92	-555.2	755.0	577.2	545.7	31.49	18.329		
7,650.0	7,436.1	7,590.7	7,397.1	18.2	29.5	160.86	-555.2	755.0	621.5	589.9	31.61	19.662		
7,700.0	7,455.1	7,609.7	7,416.1	18.4	29.5	160.29	-555.2	755.0	667.4	635.6	31.72	21.037		
7,750.0	7,470.8	7,625.4	7,431.8	18.6	29.5	158.99	-555.2	755.0	714.5	682.7	31.83	22.447		
7,800.0	7,483.2	7,637.8	7,444.2	18.8	29.5	156.41	-555.2	755.0	762.7	730.7	31.93	23.886		
7,850.0	7,492.3	7,646.8	7,453.3	19.1	29.5	151.15	-555.2	755.0	811.7	779.6	32.02	25.348		
7,900.0	7,497.9	7,652.4	7,458.9	19.4	29.5	138.37	-555.2	755.0	861.2	829.1	32.10	26.825		
7,950.0	7,500.0	7,654.5	7,461.0	19.7	29.5	97.76	-555.2	755.0	911.0	878.9	32.18	28.311		
7,955.7	7,500.0	7,654.6	7,461.0	19.7	29.5	90.00	-555.2	755.0	916.7	884.5	32.19	28.479		
8,000.0	7,500.0	7,654.6	7,461.0	20.1	29.5	90.00	-555.2	755.0	961.0	928.7	32.25	29.796		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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									
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	55.56	195.3	284.8	345.5						
100.0	100.0	91.0	91.0	0.1	0.1	55.56	195.3	284.8	345.4	345.1	0.28	1,218.793			
200.0	200.0	191.0	191.0	0.3	0.3	55.56	195.3	284.8	345.4	344.7	0.63	548.120			
300.0	300.0	291.0	291.0	0.5	0.5	55.56	195.3	284.8	345.4	344.4	0.98	352.712			
400.0	400.0	391.0	391.0	0.7	0.7	55.56	195.3	284.8	345.4	344.0	1.33	260.015			
500.0	500.0	491.0	491.0	0.8	0.8	55.56	195.3	284.8	345.4	343.7	1.68	205.901			
545.3	545.3	535.1	535.1	0.9	0.9	-64.08	195.2	285.0	345.3	343.5	1.83	188.328 CC			
600.0	600.0	588.0	588.0	1.0	1.0	-64.00	194.5	285.9	345.4	343.3	2.02	170.735			
700.0	700.0	684.6	684.5	1.2	1.2	-63.64	191.5	289.4	345.6	343.2	2.38	145.341 ES			
800.0	799.9	781.1	780.7	1.4	1.4	-63.02	186.6	295.5	346.0	343.3	2.75	125.653			
900.0	899.7	877.4	876.3	1.6	1.6	-62.14	179.6	304.1	346.7	343.6	3.16	109.648			
1,000.0	999.4	973.4	971.2	1.8	1.9	-61.00	170.7	315.1	347.8	344.2	3.61	96.286			
1,100.0	1,098.9	1,068.9	1,065.2	2.0	2.2	-59.61	159.7	328.5	349.3	345.2	4.11	85.014			
1,193.5	1,191.9	1,159.0	1,153.2	2.2	2.5	-58.10	147.7	343.2	351.2	346.6	4.61	76.210			
1,200.0	1,198.3	1,165.4	1,159.5	2.2	2.5	-58.00	146.8	344.3	351.4	346.7	4.64	75.649			
1,300.0	1,297.5	1,264.8	1,256.5	2.5	2.9	-56.35	133.0	361.3	353.6	348.4	5.21	67.925			
1,400.0	1,396.8	1,364.3	1,353.5	2.7	3.3	-54.72	119.1	378.3	356.2	350.4	5.77	61.739			
1,500.0	1,496.1	1,463.8	1,450.5	3.0	3.7	-53.12	105.3	395.3	359.0	352.7	6.33	56.725			
1,600.0	1,595.3	1,563.2	1,547.5	3.2	4.1	-51.54	91.4	412.2	362.1	355.2	6.88	52.615			
1,700.0	1,694.6	1,662.7	1,644.5	3.5	4.5	-50.00	77.6	429.2	365.5	358.0	7.43	49.210			
1,800.0	1,793.9	1,762.1	1,741.5	3.8	4.9	-48.48	63.8	446.2	369.1	361.1	7.96	46.364			
1,900.0	1,893.1	1,861.6	1,838.6	4.0	5.3	-46.99	49.9	463.1	373.0	364.5	8.48	43.964			
2,000.0	1,992.4	1,961.0	1,935.6	4.3	5.7	-45.53	36.1	480.1	377.1	368.1	9.00	41.925			
2,100.0	2,091.7	2,060.5	2,032.6	4.6	6.2	-44.10	22.3	497.1	381.5	372.0	9.49	40.183			
2,200.0	2,190.9	2,159.9	2,129.6	4.8	6.6	-42.71	8.4	514.1	386.1	376.2	9.98	38.686			
2,300.0	2,290.2	2,259.4	2,226.6	5.1	7.0	-41.35	-5.4	531.0	391.0	380.5	10.46	37.394			
2,400.0	2,389.5	2,358.8	2,323.6	5.4	7.4	-40.03	-19.2	548.0	396.0	385.1	10.92	36.275			
2,500.0	2,488.7	2,458.3	2,420.6	5.6	7.8	-38.74	-33.1	565.0	401.3	389.9	11.37	35.301			
2,600.0	2,588.0	2,557.7	2,517.6	5.9	8.3	-37.48	-46.9	582.0	406.8	395.0	11.81	34.453			
2,700.0	2,687.3	2,657.2	2,614.7	6.2	8.7	-36.26	-60.7	598.9	412.4	400.2	12.23	33.711			
2,800.0	2,786.6	2,756.7	2,711.7	6.5	9.1	-35.06	-74.6	615.9	418.3	405.6	12.65	33.063			
2,900.0	2,885.8	2,856.1	2,808.7	6.7	9.5	-33.91	-88.4	632.9	424.3	411.2	13.06	32.495			
3,000.0	2,985.1	2,955.6	2,905.7	7.0	9.9	-32.78	-102.3	649.9	430.5	417.0	13.45	31.996			
3,100.0	3,084.4	3,055.0	3,002.7	7.3	10.4	-31.69	-116.1	666.8	436.8	423.0	13.84	31.559			
3,200.0	3,183.6	3,154.5	3,099.7	7.5	10.8	-30.63	-129.9	683.8	443.3	429.1	14.22	31.176			
3,300.0	3,282.9	3,253.9	3,196.7	7.8	11.2	-29.60	-143.8	700.8	450.0	435.4	14.59	30.839			
3,400.0	3,382.2	3,353.4	3,293.8	8.1	11.6	-28.60	-157.6	717.7	456.7	441.8	14.95	30.544			
3,500.0	3,481.4	3,452.8	3,390.8	8.4	12.1	-27.63	-171.4	734.7	463.7	448.4	15.31	30.286			
3,600.0	3,580.7	3,552.3	3,487.8	8.6	12.5	-26.68	-185.3	751.7	470.7	455.1	15.66	30.061			
3,700.0	3,680.0	3,651.7	3,584.8	8.9	12.9	-25.77	-199.1	768.7	477.9	461.9	16.00	29.864			
3,800.0	3,779.2	3,751.2	3,681.8	9.2	13.3	-24.88	-212.9	785.6	485.2	468.9	16.34	29.693			
3,900.0	3,878.5	3,850.7	3,778.8	9.4	13.7	-24.02	-226.8	802.6	492.6	475.9	16.67	29.545			
4,000.0	3,977.8	3,950.1	3,875.8	9.7	14.2	-23.18	-240.6	819.6	500.1	483.1	17.00	29.417			
4,100.0	4,077.0	4,049.6	3,972.8	10.0	14.6	-22.37	-254.4	836.6	507.8	490.4	17.33	29.307			
4,200.0	4,176.3	4,149.0	4,069.9	10.3	15.0	-21.59	-268.3	853.5	515.5	497.8	17.65	29.212			
4,300.0	4,275.6	4,248.5	4,166.9	10.5	15.4	-20.82	-282.1	870.5	523.3	505.3	17.96	29.133			
4,400.0	4,374.8	4,347.9	4,263.9	10.8	15.9	-20.08	-296.0	887.5	531.2	512.9	18.28	29.065			
4,500.0	4,474.1	4,447.4	4,360.9	11.1	16.3	-19.36	-309.8	904.5	539.2	520.6	18.59	29.009			
4,600.0	4,573.4	4,546.8	4,457.9	11.4	16.7	-18.67	-323.6	921.4	547.3	528.4	18.89	28.964			
4,700.0	4,672.6	4,646.3	4,554.9	11.6	17.1	-17.99	-337.5	938.4	555.4	536.2	19.20	28.927			
4,800.0	4,771.9	4,745.7	4,651.9	11.9	17.6	-17.33	-351.3	955.4	563.6	544.1	19.50	28.897			
4,900.0	4,871.2	4,845.2	4,749.0	12.2	18.0	-16.69	-365.1	972.3	571.9	552.1	19.81	28.875			

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 4R-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 4R-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							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	4,970.5	4,944.6	4,846.0	12.4	18.4	-16.07	-379.0	989.3	580.3	560.2	20.11	28.859		
5,100.0	5,069.7	5,044.1	4,943.0	12.7	18.8	-15.47	-392.8	1,006.3	588.7	568.3	20.41	28.849		
5,200.0	5,169.0	5,143.6	5,040.0	13.0	19.3	-14.88	-406.6	1,023.3	597.2	576.5	20.71	28.843		
5,300.0	5,268.3	5,243.0	5,137.0	13.3	19.7	-14.31	-420.5	1,040.2	605.8	584.8	21.00	28.841		
5,400.0	5,367.5	5,342.5	5,234.0	13.5	20.1	-13.76	-434.3	1,057.2	614.4	593.1	21.30	28.844		
5,500.0	5,466.8	5,441.9	5,331.0	13.8	20.5	-13.22	-448.2	1,074.2	623.1	601.5	21.60	28.849		
5,600.0	5,566.1	5,541.4	5,428.0	14.1	20.9	-12.69	-462.0	1,091.2	631.8	609.9	21.89	28.857		
5,700.0	5,665.3	5,640.8	5,525.1	14.4	21.4	-12.18	-475.8	1,108.1	640.6	618.4	22.19	28.868		
5,800.0	5,764.6	5,740.3	5,622.1	14.6	21.8	-11.69	-489.7	1,125.1	649.4	626.9	22.49	28.880		
5,900.0	5,863.9	5,839.7	5,719.1	14.9	22.2	-11.21	-503.5	1,142.1	658.3	635.5	22.78	28.895		
6,000.0	5,963.1	5,962.6	5,829.4	15.2	22.7	-10.69	-518.8	1,160.9	666.7	643.6	23.12	28.839		
6,100.0	6,062.4	6,080.6	5,955.2	15.5	23.1	-10.27	-533.1	1,178.4	671.6	648.1	23.49	28.587		
6,200.0	6,161.7	6,208.9	6,082.4	15.7	23.4	-10.01	-543.9	1,191.7	672.2	648.4	23.85	28.181		
6,300.0	6,260.9	6,337.1	6,210.2	16.0	23.7	-9.91	-551.1	1,200.5	668.6	644.4	24.20	27.629		
6,400.0	6,360.2	6,464.8	6,337.6	16.3	23.8	-9.98	-554.6	1,204.8	660.9	636.3	24.53	26.937		
6,500.0	6,459.5	6,577.6	6,450.5	16.6	23.9	-10.17	-555.1	1,205.3	649.5	624.6	24.88	26.102		
6,600.0	6,558.7	6,676.9	6,549.7	16.8	24.0	-10.36	-555.1	1,205.3	637.6	612.4	25.25	25.250		
6,700.0	6,658.0	6,776.1	6,649.0	17.1	24.1	-10.56	-555.1	1,205.3	625.7	600.1	25.62	24.422		
6,787.9	6,745.2	6,863.3	6,736.2	17.3	24.2	-10.74	-555.1	1,205.3	615.3	589.4	25.95	23.712		
6,800.0	6,757.3	6,875.4	6,748.3	17.4	24.2	-3.22	-555.1	1,205.3	613.9	587.9	25.99	23.619		
6,850.0	6,807.0	6,925.1	6,798.0	17.5	24.2	33.66	-555.1	1,205.3	608.8	582.7	26.11	23.313		
6,900.0	6,856.6	6,974.7	6,847.6	17.6	24.3	62.50	-555.1	1,205.3	604.9	578.7	26.16	23.122		
6,950.0	6,905.9	7,024.0	6,896.9	17.6	24.3	78.50	-555.1	1,205.3	602.2	576.1	26.14	23.039 SF		
7,000.0	6,954.6	7,072.7	6,945.6	17.7	24.4	87.85	-555.1	1,205.3	601.0	574.9	26.07	23.055		
7,015.3	6,969.4	7,087.5	6,960.4	17.7	24.4	90.00	-555.1	1,205.3	600.9	574.8	26.04	23.077		
7,050.0	7,002.5	7,120.6	6,993.5	17.7	24.4	94.10	-555.1	1,205.3	601.3	575.3	25.97	23.157		
7,100.0	7,049.3	7,167.5	7,040.3	17.7	24.4	98.76	-555.1	1,205.3	603.4	577.6	25.87	23.329		
7,150.0	7,094.9	7,213.0	7,085.9	17.7	24.5	102.48	-555.1	1,205.3	607.6	581.8	25.80	23.552		
7,200.0	7,139.0	7,257.1	7,130.0	17.8	24.5	105.60	-555.1	1,205.3	614.1	588.3	25.80	23.804		
7,250.0	7,181.4	7,299.5	7,172.4	17.7	24.6	108.25	-555.1	1,205.3	623.1	597.2	25.89	24.064		
7,300.0	7,221.8	7,339.9	7,212.8	17.7	24.6	110.50	-555.1	1,205.3	634.8	608.7	26.11	24.315		
7,350.0	7,260.1	7,378.3	7,251.1	17.8	24.6	112.37	-555.1	1,205.3	649.5	623.0	26.46	24.551		
7,400.0	7,296.2	7,414.3	7,287.2	17.8	24.7	113.85	-555.1	1,205.3	667.2	640.3	26.93	24.772		
7,450.0	7,329.7	7,447.9	7,320.7	17.8	24.7	114.93	-555.1	1,205.3	688.0	660.4	27.53	24.990		
7,500.0	7,360.6	7,478.8	7,351.6	17.9	24.7	115.58	-555.1	1,205.3	711.8	683.6	28.23	25.220		
7,550.0	7,388.8	7,506.9	7,379.8	17.9	24.7	115.75	-555.1	1,205.3	738.7	709.7	28.99	25.479		
7,600.0	7,414.0	7,532.1	7,405.0	18.0	24.8	115.39	-555.1	1,205.3	768.5	738.7	29.81	25.783		
7,650.0	7,436.1	7,554.2	7,427.1	18.2	24.8	114.44	-555.1	1,205.3	801.0	770.3	30.64	26.144		
7,700.0	7,455.1	7,573.2	7,446.1	18.4	24.8	112.81	-555.1	1,205.3	835.9	804.5	31.46	26.568		
7,750.0	7,470.8	7,589.0	7,461.8	18.6	24.8	110.41	-555.1	1,205.3	873.2	840.9	32.27	27.058		
7,800.0	7,483.2	7,601.4	7,474.2	18.8	24.8	107.12	-555.1	1,205.3	912.4	879.3	33.04	27.614		
7,850.0	7,492.3	7,610.4	7,483.3	19.1	24.8	102.81	-555.1	1,205.3	953.2	919.5	33.76	28.231		
7,900.0	7,497.9	7,616.0	7,488.9	19.4	24.8	97.39	-555.1	1,205.3	995.5	961.0	34.44	28.905		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 8-8-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 70-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	55.56	195.3	284.8	345.5					
100.0	100.0	87.9	87.9	0.1	0.1	55.58	195.5	285.3	345.8	0.28	1,254.263			
200.0	200.0	184.7	184.6	0.3	0.3	55.68	195.6	286.5	347.0	0.62	560.058			
300.0	300.0	282.4	282.3	0.5	0.5	56.16	194.3	289.8	349.0	0.97	358.655			
400.0	400.0	375.3	375.0	0.7	0.7	57.06	191.5	295.5	352.5	1.33	264.216			
500.0	500.0	471.1	470.3	0.8	0.9	58.41	187.2	304.4	357.9	1.72	207.631			
600.0	600.0	565.2	563.6	1.0	1.2	-59.61	181.1	315.0	363.9	2.14	170.407			
700.0	700.0	656.8	653.9	1.2	1.5	-57.86	173.8	328.1	371.3	2.57	144.274			
800.0	799.9	747.7	743.0	1.4	1.8	-55.98	165.1	344.1	380.2	3.03	125.462			
900.0	899.7	837.2	830.2	1.6	2.2	-54.26	156.6	362.0	390.9	3.49	111.991			
1,000.0	999.4	930.1	920.5	1.8	2.6	-52.66	148.1	382.5	402.8	3.98	101.173			
1,100.0	1,098.9	1,020.7	1,007.8	2.0	3.1	-51.01	137.9	404.4	415.3	4.50	92.358			
1,193.5	1,191.9	1,100.4	1,083.7	2.2	3.6	-49.41	127.4	426.4	428.7	4.98	86.168			
1,200.0	1,198.3	1,105.9	1,088.8	2.2	3.6	-49.30	126.7	428.0	429.8	5.01	85.803			
1,300.0	1,297.5	1,190.6	1,168.5	2.5	4.2	-47.65	114.7	454.4	447.2	5.52	81.046			
1,400.0	1,396.8	1,277.6	1,249.3	2.7	4.8	-45.88	101.7	483.8	467.6	6.03	77.483			
1,500.0	1,496.1	1,368.7	1,333.0	3.0	5.5	-43.93	86.6	516.6	490.1	6.57	74.598			
1,600.0	1,595.3	1,464.1	1,420.0	3.2	6.2	-41.83	68.9	551.5	513.6	7.11	72.231			
1,700.0	1,694.6	1,556.3	1,503.9	3.5	6.9	-39.95	51.6	585.4	537.9	7.59	70.879			
1,800.0	1,793.9	1,647.7	1,587.3	3.8	7.6	-38.44	36.5	619.5	563.5	8.04	70.114			
1,900.0	1,893.1	1,740.4	1,672.0	4.0	8.3	-37.12	22.1	654.6	590.1	8.49	69.531			
2,000.0	1,992.4	1,828.9	1,752.5	4.3	9.0	-35.95	8.2	688.6	617.5	8.89	69.457			
2,100.0	2,091.7	1,927.4	1,841.9	4.6	9.8	-34.75	-7.1	727.0	645.8	9.35	69.084			
2,200.0	2,190.9	2,043.0	1,947.4	4.8	10.7	-33.38	-26.4	770.0	672.5	9.88	68.090			
2,300.0	2,290.2	2,147.6	2,043.9	5.1	11.4	-32.27	-43.7	806.4	696.9	10.33	67.473			
2,400.0	2,389.5	2,245.1	2,133.8	5.4	12.1	-31.29	-60.1	840.3	721.5	10.74	67.169			
2,500.0	2,488.7	2,360.3	2,240.5	5.6	12.9	-30.15	-80.4	878.8	744.9	11.22	66.406			
2,600.0	2,588.0	2,463.9	2,337.4	5.9	13.6	-29.34	-96.6	911.5	766.5	11.61	66.021			
2,700.0	2,687.3	2,558.0	2,425.8	6.2	14.2	-28.85	-108.8	941.3	788.3	11.98	65.828			
2,800.0	2,786.6	2,676.9	2,538.0	6.5	15.0	-28.25	-124.2	977.6	808.9	12.45	64.986			
2,900.0	2,885.8	2,769.3	2,625.7	6.7	15.5	-27.78	-136.6	1,004.4	828.0	12.80	64.675			
3,000.0	2,985.1	2,871.3	2,721.8	7.0	16.2	-27.27	-150.6	1,035.3	848.5	13.21	64.256			
3,100.0	3,084.4	2,977.5	2,822.1	7.3	16.8	-26.58	-167.9	1,065.5	867.4	13.62	63.711			
3,200.0	3,183.6	3,081.7	2,920.8	7.5	17.4	-25.93	-184.7	1,094.4	885.8	13.98	63.357			
3,300.0	3,282.9	3,169.4	3,004.0	7.8	18.0	-25.53	-196.9	1,119.3	904.5	14.31	63.222			
3,400.0	3,382.2	3,256.8	3,086.5	8.1	18.5	-25.08	-210.4	1,144.9	924.4	14.64	63.152			
3,500.0	3,481.4	3,350.2	3,174.4	8.4	19.1	-24.58	-225.4	1,172.8	945.1	14.97	63.145			
3,600.0	3,580.7	3,448.8	3,267.2	8.6	19.7	-24.20	-239.0	1,202.9	966.2	15.32	63.083			
3,700.0	3,680.0	3,559.0	3,371.5	8.9	20.4	-23.88	-252.9	1,235.7	986.5	15.73	62.714 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4A-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	2.0	2.0	0.0	0.0	-89.73	0.8	-169.8	169.8					
100.0	100.0	102.0	102.0	0.1	0.2	-89.73	0.8	-169.8	169.8	169.5	0.30	565.737		
116.0	116.0	118.0	118.0	0.2	0.2	-89.73	0.8	-169.8	169.8	169.5	0.36	477.058 CC		
200.0	200.0	201.9	201.9	0.3	0.3	-89.73	0.8	-169.8	169.8	169.2	0.65	261.617 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-89.66	1.0	-170.7	170.7	169.7	0.99	171.568		
400.0	400.0	396.3	396.3	0.7	0.7	-89.44	1.7	-173.1	173.2	171.8	1.34	129.481		
500.0	500.0	493.3	493.2	0.8	0.9	-89.10	2.8	-177.1	177.3	175.6	1.68	105.446		
600.0	600.0	590.2	589.9	1.0	1.0	151.80	4.3	-182.6	183.9	181.8	2.03	90.779		
700.0	700.0	688.9	688.3	1.2	1.2	152.63	6.2	-189.5	193.2	190.8	2.37	81.385		
800.0	799.9	788.2	787.4	1.4	1.5	153.61	8.1	-196.4	204.1	201.4	2.72	74.949		
900.0	899.7	887.3	886.2	1.6	1.7	154.67	10.0	-203.4	216.7	213.6	3.07	70.498		
1,000.0	999.4	986.2	984.8	1.8	1.9	155.79	11.9	-210.3	230.9	227.5	3.42	67.430		
1,100.0	1,098.9	1,084.8	1,083.2	2.0	2.1	156.92	13.9	-217.2	246.8	243.1	3.78	65.366		
1,193.5	1,191.9	1,176.8	1,174.9	2.2	2.3	157.98	15.6	-223.6	263.3	259.2	4.11	64.123		
1,200.0	1,198.3	1,183.1	1,181.2	2.2	2.3	158.05	15.7	-224.1	264.4	260.3	4.13	64.057		
1,300.0	1,297.5	1,281.2	1,279.1	2.5	2.5	159.16	17.6	-230.9	282.8	278.4	4.48	63.145		
1,400.0	1,396.8	1,379.4	1,377.0	2.7	2.7	160.13	19.5	-237.8	301.3	296.5	4.83	62.391		
1,500.0	1,496.1	1,477.6	1,474.9	3.0	2.9	160.98	21.4	-244.7	319.9	314.7	5.18	61.758		
1,600.0	1,595.3	1,575.7	1,572.8	3.2	3.1	161.75	23.3	-251.5	338.5	333.0	5.53	61.222		
1,700.0	1,694.6	1,673.9	1,670.7	3.5	3.3	162.43	25.2	-258.4	357.2	351.3	5.88	60.764		
1,800.0	1,793.9	1,772.0	1,768.6	3.8	3.6	163.05	27.1	-265.2	375.9	369.6	6.23	60.367		
1,900.0	1,893.1	1,870.2	1,866.5	4.0	3.8	163.60	29.0	-272.1	394.6	388.0	6.57	60.021		
2,000.0	1,992.4	1,968.3	1,964.4	4.3	4.0	164.11	30.9	-279.0	413.4	406.5	6.92	59.718		
2,100.0	2,091.7	2,066.5	2,062.3	4.6	4.2	164.57	32.8	-285.8	432.2	424.9	7.27	59.449		
2,200.0	2,190.9	2,164.7	2,160.2	4.8	4.4	165.00	34.7	-292.7	451.0	443.4	7.62	59.210		
2,300.0	2,290.2	2,262.8	2,258.1	5.1	4.6	165.39	36.6	-299.6	469.9	461.9	7.97	58.996		
2,400.0	2,389.5	2,361.0	2,356.0	5.4	4.8	165.75	38.5	-306.4	488.8	480.5	8.31	58.803		
2,500.0	2,488.7	2,459.1	2,453.9	5.6	5.0	166.08	40.4	-313.3	507.7	499.0	8.66	58.629		
2,600.0	2,588.0	2,557.3	2,551.8	5.9	5.2	166.39	42.3	-320.2	526.6	517.6	9.01	58.470		
2,700.0	2,687.3	2,655.4	2,649.7	6.2	5.5	166.68	44.2	-327.0	545.5	536.2	9.35	58.326		
2,800.0	2,786.6	2,753.6	2,747.6	6.5	5.7	166.95	46.1	-333.9	564.5	554.8	9.70	58.193		
2,900.0	2,885.8	2,851.8	2,845.5	6.7	5.9	167.20	47.9	-340.8	583.4	573.4	10.05	58.071		
3,000.0	2,985.1	2,949.9	2,943.4	7.0	6.1	167.44	49.8	-347.6	602.4	592.0	10.39	57.959		
3,100.0	3,084.4	3,048.1	3,041.3	7.3	6.3	167.66	51.7	-354.5	621.3	610.6	10.74	57.855		
3,200.0	3,183.6	3,146.2	3,139.2	7.5	6.5	167.86	53.6	-361.4	640.3	629.2	11.09	57.759		
3,300.0	3,282.9	3,244.4	3,237.1	7.8	6.7	168.06	55.5	-368.2	659.3	647.9	11.43	57.669		
3,400.0	3,382.2	3,342.5	3,335.0	8.1	6.9	168.25	57.4	-375.1	678.3	666.5	11.78	57.585		
3,500.0	3,481.4	3,440.7	3,432.9	8.4	7.1	168.42	59.3	-382.0	697.3	685.2	12.13	57.507		
3,600.0	3,580.7	3,538.9	3,530.8	8.6	7.4	168.59	61.2	-388.8	716.3	703.8	12.47	57.434		
3,700.0	3,680.0	3,637.0	3,628.7	8.9	7.6	168.74	63.1	-395.7	735.3	722.5	12.82	57.365		
3,800.0	3,779.2	3,735.2	3,726.6	9.2	7.8	168.89	65.0	-402.6	754.3	741.1	13.16	57.301		
3,900.0	3,878.5	3,833.3	3,824.5	9.4	8.0	169.03	66.9	-409.4	773.3	759.8	13.51	57.240		
4,000.0	3,977.8	3,931.5	3,922.4	9.7	8.2	169.17	68.8	-416.3	792.3	778.5	13.86	57.182		
4,100.0	4,077.0	4,029.7	4,020.3	10.0	8.4	169.30	70.7	-423.2	811.4	797.2	14.20	57.128		
4,200.0	4,176.3	4,127.8	4,118.2	10.3	8.6	169.42	72.6	-430.0	830.4	815.9	14.55	57.076		
4,300.0	4,275.6	4,226.0	4,216.1	10.5	8.8	169.54	74.5	-436.9	849.4	834.5	14.90	57.028		
4,400.0	4,374.8	4,324.1	4,314.0	10.8	9.0	169.65	76.4	-443.8	868.5	853.2	15.24	56.981		
4,500.0	4,474.1	4,422.3	4,411.9	11.1	9.3	169.76	78.2	-450.6	887.5	871.9	15.59	56.937		
4,600.0	4,573.4	4,520.4	4,509.8	11.4	9.5	169.86	80.1	-457.5	906.6	890.6	15.93	56.895		
4,700.0	4,672.6	4,618.6	4,607.7	11.6	9.7	169.96	82.0	-464.4	925.6	909.3	16.28	56.855		
4,800.0	4,771.9	4,716.8	4,705.6	11.9	9.9	170.05	83.9	-471.2	944.7	928.0	16.63	56.817		
4,900.0	4,871.2	4,814.9	4,803.5	12.2	10.1	170.14	85.8	-478.1	963.7	946.7	16.97	56.781		

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 4R-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 4R-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 4A-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
5,000.0	4,970.5	4,913.1	4,901.4	12.4	10.3	170.23	87.7	-485.0	982.8	965.4	17.32	56.746 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4B-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	-89.73	0.7	-160.0	160.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.73	0.7	-160.0	160.0	159.7	0.30	536.234		
200.0	200.0	201.0	201.0	0.3	0.3	-89.73	0.7	-160.0	160.0	159.4	0.65	247.159		
216.3	216.3	217.3	217.3	0.4	0.4	-89.73	0.7	-160.0	160.0	159.3	0.70	227.162	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-89.73	0.7	-160.0	160.0	159.0	0.99	160.876	ES	
400.0	400.0	398.0	398.0	0.7	0.7	-89.61	1.1	-160.9	161.0	159.6	1.34	120.095		
500.0	500.0	495.0	494.9	0.8	0.8	-89.25	2.2	-163.6	163.8	162.1	1.68	97.221		
600.0	600.0	593.5	593.3	1.0	1.0	151.77	3.8	-167.9	168.9	166.8	2.03	83.118		
700.0	700.0	693.2	692.9	1.2	1.2	152.68	5.6	-172.4	175.7	173.4	2.38	73.777		
800.0	799.9	792.8	792.4	1.4	1.4	153.76	7.3	-176.8	184.2	181.5	2.73	67.407		
900.0	899.7	892.2	891.7	1.6	1.6	154.95	9.1	-181.3	194.3	191.2	3.08	63.004		
1,000.0	999.4	991.4	990.8	1.8	1.8	156.21	10.9	-185.8	206.1	202.7	3.44	59.976		
1,100.0	1,098.9	1,090.3	1,089.6	2.0	2.0	157.50	12.6	-190.2	219.6	215.8	3.79	57.951		
1,193.5	1,191.9	1,182.7	1,181.8	2.2	2.1	158.71	14.2	-194.4	233.7	229.6	4.12	56.745		
1,200.0	1,198.3	1,189.0	1,188.2	2.2	2.2	158.79	14.3	-194.7	234.7	230.6	4.14	56.682		
1,300.0	1,297.5	1,287.6	1,286.7	2.5	2.4	160.03	16.1	-199.1	250.7	246.3	4.49	55.808		
1,400.0	1,396.8	1,386.2	1,385.1	2.7	2.5	161.12	17.8	-203.5	266.8	262.0	4.84	55.091		
1,500.0	1,496.1	1,484.8	1,483.6	3.0	2.7	162.09	19.6	-208.0	283.0	277.8	5.19	54.493		
1,600.0	1,595.3	1,583.3	1,582.0	3.2	2.9	162.96	21.3	-212.4	299.3	293.7	5.54	53.991		
1,700.0	1,694.6	1,681.9	1,680.5	3.5	3.1	163.73	23.1	-216.8	315.6	309.7	5.89	53.563		
1,800.0	1,793.9	1,780.5	1,779.0	3.8	3.3	164.43	24.8	-221.3	332.0	325.7	6.24	53.196		
1,900.0	1,893.1	1,879.1	1,877.4	4.0	3.5	165.06	26.5	-225.7	348.4	341.8	6.59	52.877		
2,000.0	1,992.4	1,977.6	1,975.9	4.3	3.7	165.64	28.3	-230.1	364.8	357.9	6.94	52.599		
2,100.0	2,091.7	2,076.2	2,074.3	4.6	3.9	166.16	30.0	-234.6	381.3	374.0	7.28	52.354		
2,200.0	2,190.9	2,174.8	2,172.8	4.8	4.1	166.64	31.8	-239.0	397.8	390.2	7.63	52.138		
2,300.0	2,290.2	2,273.4	2,271.2	5.1	4.3	167.09	33.5	-243.4	414.4	406.4	7.98	51.944		
2,400.0	2,389.5	2,371.9	2,369.7	5.4	4.4	167.50	35.2	-247.9	430.9	422.6	8.32	51.771		
2,500.0	2,488.7	2,470.5	2,468.2	5.6	4.6	167.88	37.0	-252.3	447.5	438.8	8.67	51.615		
2,600.0	2,588.0	2,569.1	2,566.6	5.9	4.8	168.23	38.7	-256.7	464.1	455.1	9.02	51.473		
2,700.0	2,687.3	2,667.7	2,665.1	6.2	5.0	168.56	40.5	-261.2	480.7	471.3	9.36	51.345		
2,800.0	2,786.6	2,766.2	2,763.5	6.5	5.2	168.86	42.2	-265.6	497.3	487.6	9.71	51.227		
2,900.0	2,885.8	2,864.8	2,862.0	6.7	5.4	169.15	44.0	-270.0	514.0	503.9	10.05	51.119		
3,000.0	2,985.1	2,963.4	2,960.5	7.0	5.6	169.42	45.7	-274.5	530.6	520.2	10.40	51.020		
3,100.0	3,084.4	3,062.0	3,058.9	7.3	5.8	169.67	47.4	-278.9	547.3	536.5	10.75	50.929		
3,200.0	3,183.6	3,160.5	3,157.4	7.5	6.0	169.91	49.2	-283.4	563.9	552.8	11.09	50.845		
3,300.0	3,282.9	3,259.1	3,255.8	7.8	6.2	170.13	50.9	-287.8	580.6	569.2	11.44	50.766		
3,400.0	3,382.2	3,357.7	3,354.3	8.1	6.4	170.34	52.7	-292.2	597.3	585.5	11.78	50.693		
3,500.0	3,481.4	3,456.3	3,452.8	8.4	6.5	170.54	54.4	-296.7	614.0	601.9	12.13	50.625		
3,600.0	3,580.7	3,554.8	3,551.2	8.6	6.7	170.73	56.2	-301.1	630.7	618.2	12.47	50.562		
3,700.0	3,680.0	3,653.4	3,649.7	8.9	6.9	170.91	57.9	-305.5	647.4	634.6	12.82	50.502		
3,800.0	3,779.2	3,752.0	3,748.1	9.2	7.1	171.08	59.6	-310.0	664.1	651.0	13.16	50.446		
3,900.0	3,878.5	3,850.6	3,846.6	9.4	7.3	171.24	61.4	-314.4	680.8	667.3	13.51	50.394		
4,000.0	3,977.8	3,949.1	3,945.1	9.7	7.5	171.40	63.1	-318.8	697.6	683.7	13.86	50.344		
4,100.0	4,077.0	4,047.7	4,043.5	10.0	7.7	171.54	64.9	-323.3	714.3	700.1	14.20	50.297		
4,200.0	4,176.3	4,146.3	4,142.0	10.3	7.9	171.69	66.6	-327.7	731.0	716.5	14.55	50.253		
4,300.0	4,275.6	4,244.9	4,240.4	10.5	8.1	171.82	68.3	-332.1	747.8	732.9	14.89	50.211		
4,400.0	4,374.8	4,343.4	4,338.9	10.8	8.3	171.95	70.1	-336.6	764.5	749.3	15.24	50.172		
4,500.0	4,474.1	4,442.0	4,437.4	11.1	8.5	172.07	71.8	-341.0	781.2	765.7	15.58	50.134		
4,600.0	4,573.4	4,540.6	4,535.8	11.4	8.6	172.19	73.6	-345.4	798.0	782.1	15.93	50.098		
4,700.0	4,672.6	4,639.2	4,634.3	11.6	8.8	172.30	75.3	-349.9	814.7	798.5	16.27	50.064		
4,800.0	4,771.9	4,737.7	4,732.7	11.9	9.0	172.41	77.1	-354.3	831.5	814.9	16.62	50.032		
4,900.0	4,871.2	4,836.3	4,831.2	12.2	9.2	172.51	78.8	-358.7	848.3	831.3	16.96	50.001		

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 4R-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 4R-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 4B-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	4,970.5	4,934.9	4,929.7	12.4	9.4	172.61	80.5	-363.2	865.0	847.7	17.31	49.971					
5,100.0	5,069.7	5,033.5	5,028.1	12.7	9.6	172.71	82.3	-367.6	881.8	864.1	17.66	49.943					
5,200.0	5,169.0	5,132.0	5,126.6	13.0	9.8	172.80	84.0	-372.0	898.5	880.5	18.00	49.915					
5,300.0	5,268.3	5,230.6	5,225.0	13.3	10.0	172.89	85.8	-376.5	915.3	897.0	18.35	49.890					
5,400.0	5,367.5	5,329.2	5,323.5	13.5	10.2	172.98	87.5	-380.9	932.1	913.4	18.69	49.865					
5,500.0	5,466.8	5,427.8	5,422.0	13.8	10.4	173.06	89.2	-385.3	948.8	929.8	19.04	49.841					
5,600.0	5,566.1	5,526.3	5,520.4	14.1	10.6	173.14	91.0	-389.8	965.6	946.2	19.38	49.818					
5,700.0	5,665.3	5,624.9	5,618.9	14.4	10.7	173.21	92.7	-394.2	982.4	962.7	19.73	49.796					
5,800.0	5,764.6	5,723.5	5,717.3	14.6	10.9	173.29	94.5	-398.6	999.2	979.1	20.07	49.774 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.74	0.7	-150.0	150.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.74	0.7	-150.0	150.0	149.7	0.30	502.485		
200.0	200.0	201.0	201.0	0.3	0.3	-89.74	0.7	-150.0	150.0	149.3	0.65	231.604		
216.3	216.3	217.3	217.3	0.4	0.4	-89.74	0.7	-150.0	150.0	149.3	0.70	212.865	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-89.74	0.7	-150.0	150.0	149.0	0.99	150.751	ES	
400.0	400.0	398.8	398.8	0.7	0.7	-89.56	1.2	-150.7	150.7	149.3	1.34	112.288		
500.0	500.0	497.7	497.7	0.8	0.8	-89.07	2.5	-152.6	152.7	151.0	1.69	90.353		
600.0	600.0	597.6	597.6	1.0	1.0	151.95	3.9	-154.8	155.6	153.6	2.04	76.294		
700.0	700.0	697.5	697.4	1.2	1.2	152.87	5.4	-156.9	160.2	157.8	2.39	67.000		
800.0	799.9	797.3	797.1	1.4	1.4	154.00	6.9	-159.1	166.3	163.5	2.74	60.654		
900.0	899.7	896.9	896.7	1.6	1.6	155.28	8.3	-161.2	174.1	171.0	3.09	56.266		
1,000.0	999.4	996.3	996.1	1.8	1.7	156.66	9.8	-163.4	183.5	180.1	3.45	53.250		
1,100.0	1,098.9	1,095.6	1,095.4	2.0	1.9	158.09	11.2	-165.5	194.7	190.9	3.80	51.236		
1,193.5	1,191.9	1,188.2	1,188.0	2.2	2.1	159.43	12.6	-167.5	206.7	202.6	4.13	50.044		
1,200.0	1,198.3	1,194.6	1,194.4	2.2	2.1	159.53	12.7	-167.6	207.6	203.4	4.15	49.982		
1,300.0	1,297.5	1,293.5	1,293.2	2.5	2.3	160.90	14.1	-169.8	221.3	216.8	4.51	49.122		
1,400.0	1,396.8	1,392.5	1,392.1	2.7	2.5	162.11	15.6	-171.9	235.1	230.3	4.86	48.419		
1,500.0	1,496.1	1,491.4	1,491.0	3.0	2.6	163.19	17.0	-174.0	249.1	243.9	5.21	47.837		
1,600.0	1,595.3	1,590.3	1,589.9	3.2	2.8	164.16	18.4	-176.1	263.1	257.5	5.56	47.348		
1,700.0	1,694.6	1,689.2	1,688.8	3.5	3.0	165.02	19.9	-178.3	277.2	271.3	5.91	46.934		
1,800.0	1,793.9	1,788.2	1,787.7	3.8	3.2	165.80	21.3	-180.4	291.3	285.0	6.25	46.579		
1,900.0	1,893.1	1,887.1	1,886.6	4.0	3.3	166.52	22.8	-182.5	305.5	298.9	6.60	46.273		
2,000.0	1,992.4	1,986.0	1,985.5	4.3	3.5	167.16	24.2	-184.7	319.7	312.8	6.95	46.005		
2,100.0	2,091.7	2,084.9	2,084.3	4.6	3.7	167.75	25.7	-186.8	334.0	326.7	7.30	45.771		
2,200.0	2,190.9	2,183.8	2,183.2	4.8	3.9	168.30	27.1	-188.9	348.3	340.6	7.64	45.563		
2,300.0	2,290.2	2,282.8	2,282.1	5.1	4.1	168.80	28.5	-191.1	362.6	354.6	7.99	45.379		
2,400.0	2,389.5	2,381.7	2,381.0	5.4	4.2	169.26	30.0	-193.2	376.9	368.6	8.34	45.214		
2,500.0	2,488.7	2,480.6	2,479.9	5.6	4.4	169.69	31.4	-195.3	391.3	382.6	8.68	45.066		
2,600.0	2,588.0	2,579.5	2,578.8	5.9	4.6	170.09	32.9	-197.5	405.7	396.7	9.03	44.931		
2,700.0	2,687.3	2,678.4	2,677.7	6.2	4.8	170.46	34.3	-199.6	420.1	410.7	9.37	44.810		
2,800.0	2,786.6	2,777.4	2,776.6	6.5	4.9	170.81	35.8	-201.7	434.5	424.8	9.72	44.699		
2,900.0	2,885.8	2,876.3	2,875.5	6.7	5.1	171.13	37.2	-203.8	448.9	438.9	10.07	44.597		
3,000.0	2,985.1	2,975.2	2,974.3	7.0	5.3	171.43	38.7	-206.0	463.4	453.0	10.41	44.503		
3,100.0	3,084.4	3,074.1	3,073.2	7.3	5.5	171.72	40.1	-208.1	477.9	467.1	10.76	44.417		
3,200.0	3,183.6	3,173.1	3,172.1	7.5	5.7	171.99	41.5	-210.2	492.3	481.2	11.10	44.338		
3,300.0	3,282.9	3,272.0	3,271.0	7.8	5.8	172.24	43.0	-212.4	506.8	495.4	11.45	44.264		
3,400.0	3,382.2	3,370.9	3,369.9	8.1	6.0	172.48	44.4	-214.5	521.3	509.5	11.80	44.196		
3,500.0	3,481.4	3,469.8	3,468.8	8.4	6.2	172.71	45.9	-216.6	535.8	523.7	12.14	44.132		
3,600.0	3,580.7	3,568.7	3,567.7	8.6	6.4	172.92	47.3	-218.8	550.3	537.8	12.49	44.072		
3,700.0	3,680.0	3,667.7	3,666.6	8.9	6.6	173.13	48.8	-220.9	564.8	552.0	12.83	44.016		
3,800.0	3,779.2	3,766.6	3,765.4	9.2	6.7	173.32	50.2	-223.0	579.4	566.2	13.18	43.964		
3,900.0	3,878.5	3,865.5	3,864.3	9.4	6.9	173.50	51.7	-225.1	593.9	580.4	13.52	43.915		
4,000.0	3,977.8	3,964.4	3,963.2	9.7	7.1	173.68	53.1	-227.3	608.4	594.5	13.87	43.868		
4,100.0	4,077.0	4,063.3	4,062.1	10.0	7.3	173.84	54.5	-229.4	623.0	608.7	14.21	43.824		
4,200.0	4,176.3	4,162.3	4,161.0	10.3	7.4	174.00	56.0	-231.5	637.5	622.9	14.56	43.783		
4,300.0	4,275.6	4,261.2	4,259.9	10.5	7.6	174.16	57.4	-233.7	652.1	637.1	14.91	43.744		
4,400.0	4,374.8	4,360.1	4,358.8	10.8	7.8	174.30	58.9	-235.8	666.6	651.4	15.25	43.707		
4,500.0	4,474.1	4,459.0	4,457.7	11.1	8.0	174.44	60.3	-237.9	681.2	665.6	15.60	43.672		
4,600.0	4,573.4	4,558.0	4,556.5	11.4	8.2	174.57	61.8	-240.1	695.7	679.8	15.94	43.638		
4,700.0	4,672.6	4,656.9	4,655.4	11.6	8.3	174.70	63.2	-242.2	710.3	694.0	16.29	43.606		
4,800.0	4,771.9	4,755.8	4,754.3	11.9	8.5	174.83	64.6	-244.3	724.9	708.2	16.63	43.576		
4,900.0	4,871.2	4,854.7	4,853.2	12.2	8.7	174.94	66.1	-246.5	739.4	722.4	16.98	43.547		

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 4R-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 4R-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,000.0	4,970.5	4,953.6	4,952.1	12.4	8.9	175.06	67.5	-248.6	754.0	736.7	17.33	43.519		
5,100.0	5,069.7	5,052.6	5,051.0	12.7	9.0	175.17	69.0	-250.7	768.6	750.9	17.67	43.493		
5,200.0	5,169.0	5,151.5	5,149.9	13.0	9.2	175.27	70.4	-252.8	783.2	765.1	18.02	43.467		
5,300.0	5,268.3	5,250.4	5,248.8	13.3	9.4	175.37	71.9	-255.0	797.7	779.4	18.36	43.443		
5,400.0	5,367.5	5,349.3	5,347.7	13.5	9.6	175.47	73.3	-257.1	812.3	793.6	18.71	43.420		
5,500.0	5,466.8	5,448.2	5,446.5	13.8	9.8	175.56	74.8	-259.2	826.9	807.9	19.05	43.398		
5,600.0	5,566.1	5,547.2	5,545.4	14.1	9.9	175.65	76.2	-261.4	841.5	822.1	19.40	43.376		
5,700.0	5,665.3	5,646.1	5,644.3	14.4	10.1	175.74	77.6	-263.5	856.1	836.3	19.75	43.356		
5,800.0	5,764.6	5,745.0	5,743.2	14.6	10.3	175.83	79.1	-265.6	870.7	850.6	20.09	43.336		
5,900.0	5,863.9	5,843.9	5,842.1	14.9	10.5	175.91	80.5	-267.8	885.3	864.8	20.44	43.317		
6,000.0	5,963.1	5,942.9	5,941.0	15.2	10.7	175.99	82.0	-269.9	899.9	879.1	20.78	43.298		
6,100.0	6,062.4	6,041.8	6,039.9	15.5	10.8	176.07	83.4	-272.0	914.5	893.3	21.13	43.281		
6,200.0	6,161.7	6,140.7	6,138.8	15.7	11.0	176.14	84.9	-274.1	929.1	907.6	21.47	43.264		
6,300.0	6,260.9	6,239.6	6,237.6	16.0	11.2	176.21	86.3	-276.3	943.7	921.9	21.82	43.247		
6,400.0	6,360.2	6,338.5	6,336.5	16.3	11.4	176.28	87.8	-278.4	958.3	936.1	22.17	43.231		
6,500.0	6,459.5	6,437.5	6,435.4	16.6	11.5	176.35	89.2	-280.5	972.9	950.4	22.51	43.216		
6,600.0	6,558.7	6,536.4	6,534.3	16.8	11.7	176.42	90.6	-282.7	987.5	964.6	22.86	43.201		
7,050.0	7,002.5	7,250.2	7,199.6	17.7	13.0	-98.38	-97.7	-295.3	992.0	966.8	25.23	39.319		
7,100.0	7,049.3	7,287.4	7,226.1	17.7	13.2	-97.67	-123.6	-295.6	984.4	958.9	25.55	38.526		
7,150.0	7,094.9	7,312.9	7,243.6	17.7	13.3	-97.29	-142.2	-295.8	978.3	952.5	25.82	37.884		
7,200.0	7,139.0	7,329.4	7,254.5	17.8	13.4	-96.90	-154.6	-296.0	974.0	947.9	26.03	37.414		
7,250.0	7,181.4	7,339.0	7,260.8	17.7	13.4	-96.37	-161.9	-296.0	971.7	945.5	26.17	37.130		
7,274.6	7,201.5	7,341.7	7,262.5	17.7	13.4	-96.04	-164.0	-296.0	971.4	945.2	26.22	37.055		
7,300.0	7,221.8	7,343.3	7,263.5	17.7	13.4	-95.63	-165.2	-296.1	971.7	945.5	26.24	37.026 SF		
7,350.0	7,260.1	7,343.3	7,263.5	17.8	13.4	-94.66	-165.2	-296.1	974.1	947.8	26.26	37.092		
7,400.0	7,296.2	7,339.9	7,261.3	17.8	13.4	-93.46	-162.6	-296.0	978.7	952.4	26.23	37.313		
7,450.0	7,329.7	7,333.8	7,257.4	17.8	13.4	-92.04	-157.9	-296.0	985.5	959.3	26.16	37.673		
7,500.0	7,360.6	7,325.4	7,251.9	17.9	13.4	-90.43	-151.6	-295.9	994.3	968.3	26.06	38.155		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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: 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	-89.74	0.6	-139.9	139.9					
100.0	100.0	101.0	101.0	0.1	0.2	-89.74	0.6	-139.9	139.9	139.6	0.30	468.736		
200.0	200.0	201.0	201.0	0.3	0.3	-89.74	0.6	-139.9	139.9	139.2	0.65	216.048		
300.0	300.0	301.0	301.0	0.5	0.5	-89.74	0.6	-139.9	139.9	138.9	1.00	140.375		
400.0	400.0	401.0	401.0	0.7	0.7	-89.74	0.6	-139.9	139.9	138.5	1.35	103.958		
500.0	500.0	503.5	503.5	0.8	0.9	-89.74	0.6	-139.0	139.0	137.3	1.70	81.806		
600.0	600.0	606.0	605.9	1.0	1.0	150.80	0.6	-136.2	137.0	135.0	2.05	66.791		
700.0	700.0	708.4	708.2	1.2	1.2	151.38	0.6	-131.6	134.8	132.4	2.40	56.075		
800.0	799.9	808.8	808.5	1.4	1.4	152.33	0.6	-125.9	133.0	130.2	2.76	48.244		
869.1	868.9	877.9	877.5	1.5	1.5	153.19	0.6	-121.9	132.6	129.6	3.00	44.193 CC		
900.0	899.7	908.8	908.3	1.6	1.6	153.63	0.6	-120.1	132.7	129.6	3.11	42.672 ES		
1,000.0	999.4	1,008.7	1,008.0	1.8	1.8	155.25	0.6	-114.4	134.0	130.5	3.46	38.694		
1,100.0	1,098.9	1,108.5	1,107.7	2.0	2.0	157.11	0.5	-108.6	137.1	133.2	3.82	35.890		
1,193.5	1,191.9	1,201.9	1,200.9	2.2	2.2	159.00	0.5	-103.2	141.5	137.4	4.15	34.082		
1,200.0	1,198.3	1,208.3	1,207.3	2.2	2.2	159.14	0.5	-102.9	141.9	137.7	4.18	33.982		
1,300.0	1,297.5	1,308.0	1,306.9	2.5	2.4	161.14	0.5	-97.1	147.6	143.1	4.53	32.578		
1,400.0	1,396.8	1,407.7	1,406.4	2.7	2.6	162.99	0.5	-91.4	153.5	148.6	4.88	31.418		
1,500.0	1,496.1	1,507.4	1,506.0	3.0	2.8	164.71	0.5	-85.7	159.5	154.3	5.24	30.447		
1,600.0	1,595.3	1,607.1	1,605.5	3.2	3.0	166.30	0.4	-79.9	165.7	160.1	5.59	29.626		
1,700.0	1,694.6	1,706.8	1,705.0	3.5	3.2	167.77	0.4	-74.2	171.9	166.0	5.94	28.923		
1,800.0	1,793.9	1,806.6	1,804.6	3.8	3.4	169.14	0.4	-68.5	178.3	172.0	6.30	28.317		
1,900.0	1,893.1	1,906.3	1,904.1	4.0	3.6	170.42	0.4	-62.7	184.8	178.1	6.65	27.788		
2,000.0	1,992.4	2,006.0	2,003.7	4.3	3.8	171.60	0.4	-57.0	191.3	184.3	7.00	27.323		
2,100.0	2,091.7	2,105.7	2,103.2	4.6	4.0	172.71	0.3	-51.3	198.0	190.6	7.36	26.911		
2,200.0	2,190.9	2,205.4	2,202.8	4.8	4.2	173.75	0.3	-45.5	204.7	197.0	7.71	26.544		
2,300.0	2,290.2	2,305.1	2,302.3	5.1	4.4	174.72	0.3	-39.8	211.4	203.4	8.07	26.215		
2,400.0	2,389.5	2,404.8	2,401.9	5.4	4.6	175.63	0.3	-34.1	218.3	209.9	8.42	25.919		
2,500.0	2,488.7	2,504.5	2,501.4	5.6	4.8	176.49	0.3	-28.3	225.2	216.4	8.78	25.650		
2,600.0	2,588.0	2,604.2	2,600.9	5.9	5.0	177.29	0.3	-22.6	232.1	222.9	9.14	25.404		
2,700.0	2,687.3	2,703.9	2,700.5	6.2	5.2	178.05	0.2	-16.8	239.0	229.5	9.49	25.180		
2,800.0	2,786.6	2,803.6	2,800.0	6.5	5.4	178.76	0.2	-11.1	246.0	236.2	9.85	24.974		
2,900.0	2,885.8	2,903.4	2,899.6	6.7	5.6	179.44	0.2	-5.4	253.1	242.9	10.21	24.784		
3,000.0	2,985.1	3,003.1	2,999.1	7.0	5.8	-179.93	0.2	0.4	260.2	249.6	10.57	24.609		
3,100.0	3,084.4	3,102.8	3,098.7	7.3	6.0	-179.32	0.2	6.1	267.3	256.3	10.93	24.445		
3,200.0	3,183.6	3,202.5	3,198.2	7.5	6.2	-178.75	0.1	11.8	274.4	263.1	11.30	24.294		
3,300.0	3,282.9	3,302.2	3,297.7	7.8	6.4	-178.20	0.1	17.6	281.6	269.9	11.66	24.152		
3,400.0	3,382.2	3,401.9	3,397.3	8.1	6.6	-177.69	0.1	23.3	288.7	276.7	12.02	24.020		
3,500.0	3,481.4	3,501.6	3,496.8	8.4	6.8	-177.20	0.1	29.0	295.9	283.6	12.39	23.895		
3,600.0	3,580.7	3,601.3	3,596.4	8.6	7.0	-176.73	0.1	34.8	303.2	290.4	12.75	23.779		
3,700.0	3,680.0	3,701.0	3,695.9	8.9	7.2	-176.28	0.1	40.5	310.4	297.3	13.12	23.669		
3,800.0	3,779.2	3,800.7	3,795.5	9.2	7.4	-175.85	0.0	46.2	317.7	304.2	13.48	23.565		
3,900.0	3,878.5	3,900.4	3,895.0	9.4	7.6	-175.45	0.0	52.0	325.0	311.1	13.85	23.467		
4,000.0	3,977.8	4,000.1	3,994.5	9.7	7.8	-175.06	0.0	57.7	332.3	318.0	14.21	23.374		
4,100.0	4,077.0	4,099.9	4,094.1	10.0	8.0	-174.68	0.0	63.5	339.6	325.0	14.58	23.287		
4,200.0	4,176.3	4,199.6	4,193.6	10.3	8.2	-174.33	0.0	69.2	346.9	331.9	14.95	23.203		
4,300.0	4,275.6	4,299.3	4,293.2	10.5	8.4	-173.99	-0.1	74.9	354.2	338.9	15.32	23.124		
4,400.0	4,374.8	4,399.0	4,392.7	10.8	8.6	-173.66	-0.1	80.7	361.6	345.9	15.69	23.048		
4,500.0	4,474.1	4,498.7	4,492.3	11.1	8.8	-173.34	-0.1	86.4	368.9	352.9	16.06	22.976		
4,600.0	4,573.4	4,598.4	4,591.8	11.4	9.0	-173.04	-0.1	92.1	376.3	359.9	16.43	22.908		
4,700.0	4,672.6	4,698.1	4,691.4	11.6	9.2	-172.75	-0.1	97.9	383.7	366.9	16.80	22.842		
4,800.0	4,771.9	4,797.8	4,790.9	11.9	9.4	-172.47	-0.1	103.6	391.1	373.9	17.17	22.779		
4,900.0	4,871.2	4,897.5	4,890.4	12.2	9.6	-172.20	-0.2	109.3	398.5	380.9	17.54	22.719		

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 4R-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 4R-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: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,000.0	4,970.5	4,997.2	4,990.0	12.4	9.8	-171.94	-0.2	115.1	405.9	388.0	17.91	22.662	
5,100.0	5,069.7	5,096.9	5,089.5	12.7	10.0	-171.69	-0.2	120.8	413.3	395.0	18.28	22.606	
5,200.0	5,169.0	5,196.7	5,189.1	13.0	10.2	-171.45	-0.2	126.5	420.7	402.1	18.65	22.553	
5,300.0	5,268.3	5,296.4	5,288.6	13.3	10.4	-171.21	-0.2	132.3	428.2	409.1	19.03	22.503	
5,400.0	5,367.5	5,396.1	5,388.2	13.5	10.6	-170.99	-0.3	138.0	435.6	416.2	19.40	22.454	
5,500.0	5,466.8	5,495.8	5,487.7	13.8	10.8	-170.77	-0.3	143.7	443.0	423.3	19.77	22.406	
5,600.0	5,566.1	5,595.5	5,587.2	14.1	11.0	-170.56	-0.3	149.5	450.5	430.3	20.15	22.361	
5,700.0	5,665.3	5,695.2	5,686.8	14.4	11.2	-170.35	-0.3	155.2	457.9	437.4	20.52	22.317	
5,800.0	5,764.6	5,794.9	5,786.3	14.6	11.4	-170.16	-0.3	161.0	465.4	444.5	20.89	22.275	
5,900.0	5,863.9	5,894.6	5,885.9	14.9	11.6	-169.97	-0.3	166.7	472.9	451.6	21.27	22.235	
6,000.0	5,963.1	5,994.3	5,985.4	15.2	11.8	-169.78	-0.4	172.4	480.3	458.7	21.64	22.195	
6,100.0	6,062.4	6,094.0	6,085.0	15.5	12.0	-169.60	-0.4	178.2	487.8	465.8	22.02	22.157	
6,200.0	6,161.7	6,193.7	6,184.5	15.7	12.2	-169.43	-0.4	183.9	495.3	472.9	22.39	22.121	
6,300.0	6,260.9	6,293.4	6,284.1	16.0	12.4	-169.26	-0.4	189.6	502.8	480.0	22.77	22.085	
6,400.0	6,360.2	6,393.2	6,383.6	16.3	12.6	-169.09	-0.4	195.4	510.3	487.1	23.14	22.051	
6,500.0	6,459.5	6,492.9	6,483.1	16.6	12.8	-168.94	-0.5	201.1	517.8	494.2	23.52	22.018	
6,600.0	6,558.7	6,592.6	6,582.7	16.8	13.0	-168.78	-0.5	206.8	525.3	501.4	23.89	21.986	
6,700.0	6,658.0	6,692.3	6,682.2	17.1	13.2	-168.63	-0.5	212.6	532.8	508.5	24.27	21.954	
6,787.9	6,745.2	6,779.9	6,769.7	17.3	13.4	-168.50	-0.5	217.6	539.4	514.8	24.60	21.928	
6,800.0	6,757.3	6,792.0	6,781.8	17.4	13.4	-161.01	-0.5	218.3	540.2	515.6	24.64	21.921	
6,850.0	6,807.0	6,841.9	6,831.6	17.5	13.5	-124.66	-0.5	221.2	542.3	517.4	24.83	21.841	
6,900.0	6,856.6	6,891.8	6,881.4	17.6	13.6	-96.97	-0.5	224.1	542.0	517.0	25.00	21.680	
6,950.0	6,905.9	6,941.3	6,930.8	17.6	13.7	-82.76	-0.5	226.9	539.6	514.4	25.16	21.444	
7,000.0	6,954.6	6,990.2	6,979.6	17.7	13.8	-75.79	-0.6	229.7	535.1	509.7	25.31	21.138	
7,050.0	7,002.5	7,063.2	7,052.5	17.7	14.0	-73.42	-2.7	233.9	527.8	502.4	25.47	20.727	
7,100.0	7,049.3	7,141.5	7,130.0	17.7	14.1	-74.54	-13.0	238.4	516.1	490.6	25.47	20.262	
7,150.0	7,094.9	7,207.6	7,194.1	17.7	14.3	-77.61	-28.3	242.1	501.2	475.8	25.39	19.743	
7,200.0	7,139.0	7,261.2	7,245.0	17.8	14.4	-81.64	-45.0	245.0	484.8	459.5	25.31	19.157	
7,250.0	7,181.4	7,303.4	7,284.0	17.7	14.5	-85.82	-60.8	247.2	468.8	443.5	25.30	18.526	
7,300.0	7,221.8	7,335.7	7,313.2	17.7	14.6	-89.58	-74.4	248.9	454.5	429.1	25.40	17.897	
7,350.0	7,260.1	7,359.6	7,334.4	17.8	14.6	-92.55	-85.3	250.2	443.4	417.8	25.57	17.338	
7,400.0	7,296.2	7,376.5	7,349.3	17.8	14.7	-94.60	-93.5	251.0	436.5	410.7	25.81	16.912	
7,442.4	7,324.8	7,386.4	7,357.8	17.8	14.7	-95.58	-98.4	251.5	434.6	408.6	26.03	16.695	
7,450.0	7,329.7	7,387.8	7,359.0	17.8	14.7	-95.68	-99.1	251.6	434.7	408.6	26.07	16.674	
7,500.0	7,360.6	7,394.3	7,364.6	17.9	14.7	-95.83	-102.5	251.9	438.2	411.9	26.31	16.654 SF	
7,550.0	7,388.8	7,397.0	7,366.9	17.9	14.8	-95.10	-103.9	252.0	447.2	420.7	26.52	16.864	
7,600.0	7,414.0	7,400.0	7,369.5	18.0	14.8	-94.03	-105.4	252.2	461.4	434.7	26.73	17.260	
7,650.0	7,436.1	7,393.3	7,363.7	18.2	14.7	-91.30	-101.9	251.8	480.1	453.3	26.80	17.915	
7,700.0	7,455.1	7,387.8	7,359.0	18.4	14.7	-88.38	-99.1	251.6	502.8	476.0	26.89	18.700	
7,750.0	7,470.8	7,380.4	7,352.6	18.6	14.7	-84.90	-95.4	251.2	528.8	501.8	26.96	19.614	
7,800.0	7,483.2	7,371.4	7,344.8	18.8	14.7	-80.99	-91.0	250.8	557.3	530.3	27.02	20.622	
7,850.0	7,492.3	7,361.0	7,335.7	19.1	14.6	-76.78	-86.0	250.2	587.8	560.7	27.09	21.695	
7,900.0	7,497.9	7,350.0	7,326.0	19.4	14.6	-72.46	-80.9	249.7	619.6	592.4	27.18	22.799	
7,950.0	7,500.0	7,336.8	7,314.3	19.7	14.6	-68.01	-74.9	249.0	652.3	625.1	27.25	23.934	
7,955.7	7,500.0	7,335.4	7,312.9	19.7	14.6	-67.51	-74.3	248.9	656.1	628.8	27.27	24.062	
8,000.0	7,500.0	7,324.0	7,302.8	20.1	14.5	-66.46	-69.3	248.3	686.1	658.7	27.35	25.082	
8,100.0	7,500.0	7,300.0	7,280.9	20.9	14.5	-64.25	-59.4	247.1	757.9	730.4	27.55	27.510	
8,200.0	7,500.0	7,281.0	7,263.4	21.8	14.4	-62.54	-52.1	246.1	834.5	806.8	27.79	30.032	
8,300.0	7,500.0	7,263.4	7,247.0	22.9	14.4	-61.00	-45.8	245.1	914.9	886.9	28.01	32.660	
8,400.0	7,500.0	7,250.0	7,234.4	24.0	14.4	-59.85	-41.2	244.4	998.3	970.0	28.26	35.329	

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 4R-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 4R-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 4E-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	1.0	1.0	0.0	0.0	-89.66	0.8	-130.1	130.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.66	0.8	-130.1	130.1	129.8	0.30	435.928		
200.0	200.0	201.0	201.0	0.3	0.3	-89.66	0.8	-130.1	130.1	129.5	0.65	200.926		
300.0	300.0	301.0	301.0	0.5	0.5	-89.66	0.8	-130.1	130.1	129.1	1.00	130.549		
400.0	400.0	401.0	401.0	0.7	0.7	-89.66	0.8	-130.1	130.1	128.8	1.35	96.681		
500.0	500.0	503.3	503.3	0.8	0.9	-89.65	0.8	-129.2	129.2	127.5	1.70	76.057		
600.0	600.0	605.6	605.6	1.0	1.0	150.91	0.8	-126.4	127.3	125.2	2.05	62.042		
700.0	700.0	707.8	707.7	1.2	1.2	151.53	0.8	-121.8	125.1	122.7	2.40	52.031		
800.0	799.9	810.0	809.6	1.4	1.4	152.59	0.8	-115.4	122.7	119.9	2.76	44.492		
900.0	899.7	911.6	910.9	1.6	1.6	154.11	0.7	-107.3	120.1	117.0	3.11	38.614		
1,000.0	999.4	1,011.5	1,010.5	1.8	1.8	156.03	0.7	-98.8	118.7	115.2	3.47	34.257		
1,031.0	1,030.2	1,042.5	1,041.3	1.8	1.9	156.70	0.7	-96.1	118.6	115.1	3.58	33.174 CC, ES		
1,100.0	1,098.9	1,111.4	1,110.0	2.0	2.1	158.30	0.7	-90.2	119.1	115.2	3.82	31.155		
1,193.5	1,191.9	1,204.8	1,203.0	2.2	2.3	160.65	0.7	-82.3	121.0	116.9	4.16	29.125		
1,200.0	1,198.3	1,211.2	1,209.5	2.2	2.3	160.82	0.7	-81.7	121.2	117.1	4.18	29.011		
1,300.0	1,297.5	1,311.0	1,308.9	2.5	2.5	163.35	0.7	-73.2	124.4	119.8	4.54	27.416		
1,400.0	1,396.8	1,410.8	1,408.3	2.7	2.7	165.76	0.7	-64.6	127.7	122.8	4.89	26.100		
1,500.0	1,496.1	1,510.6	1,507.8	3.0	2.9	168.04	0.7	-56.1	131.3	126.1	5.25	24.998		
1,600.0	1,595.3	1,610.4	1,607.2	3.2	3.2	170.20	0.6	-47.6	135.1	129.5	5.61	24.066		
1,700.0	1,694.6	1,710.2	1,706.6	3.5	3.4	172.23	0.6	-39.0	139.0	133.1	5.98	23.267		
1,800.0	1,793.9	1,810.0	1,806.1	3.8	3.6	174.15	0.6	-30.5	143.2	136.8	6.34	22.576		
1,900.0	1,893.1	1,909.9	1,905.5	4.0	3.8	175.97	0.6	-22.0	147.4	140.7	6.71	21.973		
2,000.0	1,992.4	2,009.7	2,005.0	4.3	4.1	177.68	0.6	-13.5	151.8	144.8	7.08	21.443		
2,100.0	2,091.7	2,109.5	2,104.4	4.6	4.3	179.29	0.6	-4.9	156.4	148.9	7.46	20.972		
2,200.0	2,190.9	2,209.3	2,203.8	4.8	4.5	-179.19	0.5	3.6	161.0	153.2	7.84	20.552		
2,300.0	2,290.2	2,309.1	2,303.3	5.1	4.8	-177.76	0.5	12.1	165.8	157.6	8.22	20.175		
2,400.0	2,389.5	2,408.9	2,402.7	5.4	5.0	-176.41	0.5	20.7	170.7	162.1	8.60	19.834		
2,500.0	2,488.7	2,508.7	2,502.1	5.6	5.2	-175.13	0.5	29.2	175.6	166.6	8.99	19.525		
2,600.0	2,588.0	2,608.5	2,601.6	5.9	5.4	-173.93	0.5	37.7	180.7	171.3	9.39	19.243		
2,700.0	2,687.3	2,708.3	2,701.0	6.2	5.7	-172.79	0.5	46.3	185.8	176.0	9.78	18.986		
2,800.0	2,786.6	2,808.1	2,800.5	6.5	5.9	-171.71	0.5	54.8	190.9	180.8	10.18	18.749		
2,900.0	2,885.8	2,907.9	2,899.9	6.7	6.1	-170.68	0.4	63.3	196.2	185.6	10.59	18.531		
3,000.0	2,985.1	3,007.7	2,999.3	7.0	6.3	-169.72	0.4	71.9	201.5	190.5	10.99	18.330		
3,100.0	3,084.4	3,107.5	3,098.8	7.3	6.6	-168.80	0.4	80.4	206.8	195.4	11.40	18.144		
3,200.0	3,183.6	3,207.3	3,198.2	7.5	6.8	-167.93	0.4	88.9	212.2	200.4	11.81	17.971		
3,300.0	3,282.9	3,307.1	3,297.6	7.8	7.0	-167.10	0.4	97.5	217.7	205.5	12.22	17.810		
3,400.0	3,382.2	3,406.9	3,397.1	8.1	7.3	-166.31	0.4	106.0	223.2	210.6	12.64	17.660		
3,500.0	3,481.4	3,506.7	3,496.5	8.4	7.5	-165.56	0.3	114.5	228.7	215.7	13.06	17.520		
3,600.0	3,580.7	3,606.5	3,596.0	8.6	7.7	-164.84	0.3	123.1	234.3	220.8	13.47	17.389		
3,700.0	3,680.0	3,706.3	3,695.4	8.9	7.9	-164.16	0.3	131.6	239.9	226.0	13.90	17.266		
3,800.0	3,779.2	3,806.1	3,794.8	9.2	8.2	-163.51	0.3	140.1	245.6	231.2	14.32	17.151		
3,900.0	3,878.5	3,905.9	3,894.3	9.4	8.4	-162.89	0.3	148.6	251.2	236.5	14.74	17.042		
4,000.0	3,977.8	4,005.7	3,993.7	9.7	8.6	-162.30	0.3	157.2	256.9	241.8	15.17	16.940		
4,100.0	4,077.0	4,105.5	4,093.1	10.0	8.9	-161.73	0.3	165.7	262.7	247.1	15.59	16.843		
4,200.0	4,176.3	4,205.3	4,192.6	10.3	9.1	-161.19	0.2	174.2	268.4	252.4	16.02	16.752		
4,300.0	4,275.6	4,305.1	4,292.0	10.5	9.3	-160.67	0.2	182.8	274.2	257.7	16.45	16.666		
4,400.0	4,374.8	4,404.9	4,391.5	10.8	9.6	-160.17	0.2	191.3	280.0	263.1	16.88	16.585		
4,500.0	4,474.1	4,504.7	4,490.9	11.1	9.8	-159.69	0.2	199.8	285.8	268.5	17.31	16.507		
4,600.0	4,573.4	4,604.5	4,590.3	11.4	10.0	-159.23	0.2	208.4	291.6	273.9	17.74	16.434		
4,700.0	4,672.6	4,704.3	4,689.8	11.6	10.2	-158.79	0.2	216.9	297.5	279.3	18.18	16.364		
4,800.0	4,771.9	4,804.1	4,789.2	11.9	10.5	-158.36	0.2	225.4	303.3	284.7	18.61	16.298		
4,900.0	4,871.2	4,903.9	4,888.6	12.2	10.7	-157.96	0.1	234.0	309.2	290.2	19.05	16.235		

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 4R-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 4R-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 4E-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,000.0	4,970.5	5,003.7	4,988.1	12.4	10.9	-157.56	0.1	242.5	315.1	295.6	19.48	16.175		
5,100.0	5,069.7	5,103.5	5,087.5	12.7	11.2	-157.18	0.1	251.0	321.0	301.1	19.92	16.118		
5,200.0	5,169.0	5,203.3	5,187.0	13.0	11.4	-156.82	0.1	259.6	327.0	306.6	20.36	16.063		
5,300.0	5,268.3	5,303.1	5,286.4	13.3	11.6	-156.47	0.1	268.1	332.9	312.1	20.79	16.011		
5,400.0	5,367.5	5,403.0	5,385.8	13.5	11.8	-156.13	0.1	276.6	338.9	317.6	21.23	15.961		
5,500.0	5,466.8	5,502.8	5,485.3	13.8	12.1	-155.80	0.0	285.1	344.8	323.2	21.67	15.913		
5,600.0	5,566.1	5,602.6	5,584.7	14.1	12.3	-155.48	0.0	293.7	350.8	328.7	22.11	15.867		
5,700.0	5,665.3	5,702.4	5,684.1	14.4	12.5	-155.18	0.0	302.2	356.8	334.2	22.55	15.823		
5,800.0	5,764.6	5,802.2	5,783.6	14.6	12.8	-154.88	0.0	310.7	362.8	339.8	22.99	15.781		
5,900.0	5,863.9	5,902.0	5,883.0	14.9	13.0	-154.59	0.0	319.3	368.8	345.4	23.43	15.741		
6,000.0	5,963.1	6,001.8	5,982.5	15.2	13.2	-154.32	0.0	327.8	374.8	350.9	23.87	15.702		
6,100.0	6,062.4	6,101.6	6,081.9	15.5	13.4	-154.05	0.0	336.3	380.8	356.5	24.31	15.665		
6,200.0	6,161.7	6,201.4	6,181.3	15.7	13.7	-153.79	-0.1	344.9	386.8	362.1	24.75	15.629		
6,300.0	6,260.9	6,301.2	6,280.8	16.0	13.9	-153.54	-0.1	353.4	392.9	367.7	25.19	15.595		
6,400.0	6,360.2	6,401.0	6,380.2	16.3	14.1	-153.29	-0.1	361.9	398.9	373.3	25.64	15.561		
6,500.0	6,459.5	6,500.8	6,479.6	16.6	14.4	-153.06	-0.1	370.5	405.0	378.9	26.08	15.529		
6,600.0	6,558.7	6,600.6	6,579.1	16.8	14.6	-152.83	-0.1	379.0	411.0	384.5	26.52	15.499		
6,700.0	6,658.0	6,700.4	6,678.5	17.1	14.8	-152.60	-0.1	387.5	417.1	390.1	26.96	15.469		
6,787.9	6,745.2	6,837.0	6,814.3	17.3	15.1	-152.82	-7.1	399.2	419.5	392.2	27.26	15.388		
6,800.0	6,757.3	6,860.7	6,837.6	17.4	15.2	-145.67	-10.7	401.2	418.6	391.3	27.22	15.376		
6,850.0	6,807.0	6,954.5	6,928.4	17.5	15.4	-111.64	-32.8	409.0	409.6	382.8	26.80	15.285		
6,900.0	6,856.6	7,038.6	7,006.8	17.6	15.6	-87.78	-62.6	415.7	393.4	367.3	26.08	15.080		
6,950.0	6,905.9	7,110.2	7,070.3	17.6	15.9	-78.84	-95.0	421.1	371.4	346.1	25.29	14.690		
7,000.0	6,954.6	7,168.5	7,119.5	17.7	16.1	-78.29	-126.0	425.4	345.8	321.2	24.59	14.065		
7,050.0	7,002.5	7,214.5	7,166.4	17.7	16.2	-81.91	-153.2	428.5	318.6	294.5	24.13	13.203		
7,100.0	7,049.3	7,249.7	7,183.4	17.7	16.4	-87.13	-175.7	430.8	292.0	268.0	24.02	12.157		
7,150.0	7,094.9	7,275.8	7,202.7	17.7	16.5	-92.27	-193.2	432.5	268.4	244.1	24.33	11.032		
7,200.0	7,139.0	7,294.5	7,216.2	17.8	16.6	-96.30	-206.1	433.7	250.3	225.2	25.03	9.998		
7,250.0	7,181.4	7,307.0	7,225.0	17.7	16.7	-98.78	-215.0	434.4	240.0	214.1	25.99	9.237		
7,277.9	7,204.1	7,311.8	7,228.3	17.7	16.7	-99.46	-218.4	434.7	238.5	211.9	26.53	8.989		
7,300.0	7,221.8	7,314.6	7,230.2	17.7	16.7	-99.63	-220.4	434.9	239.5	212.6	26.92	8.897 SF		
7,350.0	7,260.1	7,318.0	7,232.6	17.8	16.7	-98.88	-222.8	435.1	249.0	221.4	27.56	9.033		
7,400.0	7,296.2	7,318.0	7,232.6	17.8	16.7	-96.63	-222.8	435.1	267.7	239.8	27.86	9.607		
7,450.0	7,329.7	7,315.2	7,230.6	17.8	16.7	-93.01	-220.8	434.9	293.6	265.7	27.89	10.528		
7,500.0	7,360.6	7,310.0	7,227.0	17.9	16.7	-88.17	-217.1	434.6	325.0	297.2	27.79	11.693		
7,550.0	7,388.8	7,300.0	7,220.1	17.9	16.6	-81.74	-210.0	434.0	360.0	332.5	27.53	13.079		
7,600.0	7,414.0	7,300.0	7,220.1	18.0	16.6	-77.12	-210.0	434.0	397.5	369.7	27.80	14.300		
7,650.0	7,436.1	7,283.6	7,208.4	18.2	16.5	-69.15	-198.5	433.0	436.4	408.9	27.47	15.886		
7,700.0	7,455.1	7,272.1	7,200.0	18.4	16.5	-62.53	-190.6	432.3	476.1	448.7	27.45	17.345		
7,750.0	7,470.8	7,250.0	7,183.6	18.6	16.4	-55.13	-175.9	430.9	516.3	489.1	27.15	19.018		
7,800.0	7,483.2	7,250.0	7,183.6	18.8	16.4	-51.19	-175.9	430.9	556.0	528.3	27.67	20.091		
7,850.0	7,492.3	7,231.7	7,169.7	19.1	16.3	-45.87	-164.0	429.7	595.4	567.7	27.65	21.531		
7,900.0	7,497.9	7,216.7	7,158.1	19.4	16.2	-41.66	-154.6	428.7	634.1	606.3	27.79	22.820		
7,950.0	7,500.0	7,200.0	7,144.9	19.7	16.2	-38.02	-144.4	427.5	672.0	644.1	27.92	24.067		
7,955.7	7,500.0	7,200.0	7,144.9	19.7	16.2	-37.76	-144.4	427.5	676.2	648.2	27.99	24.161		
8,000.0	7,500.0	7,185.4	7,133.2	20.1	16.1	-36.96	-135.7	426.5	709.6	681.5	28.12	25.232		
8,100.0	7,500.0	7,150.0	7,104.1	20.9	16.0	-35.13	-115.7	424.0	787.4	759.1	28.33	27.796		
8,200.0	7,500.0	7,131.2	7,088.3	21.8	15.9	-34.21	-105.7	422.7	867.9	839.1	28.81	30.123		
8,300.0	7,500.0	7,100.0	7,061.4	22.9	15.8	-32.77	-90.0	420.4	950.9	921.9	28.99	32.799		

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 4R-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 4R-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 4F-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	1.0	1.0	0.0	0.0	-89.63	0.8	-120.0	120.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.63	0.8	-120.0	120.0	119.7	0.30	402.180		
116.3	116.3	117.3	117.3	0.2	0.2	-89.63	0.8	-120.0	120.0	119.7	0.36	337.684		
200.0	200.0	201.0	201.0	0.3	0.3	-89.63	0.8	-120.0	120.0	119.4	0.65	185.369		
300.0	300.0	301.0	301.0	0.5	0.5	-89.20	1.7	-120.0	120.0	119.0	1.00	120.338		
400.0	400.0	400.9	400.8	0.7	0.7	-87.95	4.3	-120.0	120.1	118.8	1.35	88.852		
500.0	500.0	500.7	500.5	0.8	0.9	-85.87	8.7	-120.0	120.3	118.6	1.71	70.223		
600.0	600.0	600.3	599.9	1.0	1.1	157.51	14.8	-120.0	121.7	119.7	2.09	58.353		
700.0	700.0	701.9	701.4	1.2	1.3	161.03	21.4	-119.3	124.5	122.0	2.46	50.541		
800.0	799.9	803.7	803.0	1.4	1.5	164.33	27.0	-117.0	127.6	124.8	2.84	44.991		
900.0	899.7	905.6	904.7	1.6	1.7	167.41	31.6	-113.2	131.2	128.0	3.21	40.882		
1,000.0	999.4	1,007.6	1,006.5	1.8	1.9	170.27	35.2	-107.9	135.1	131.5	3.58	37.737		
1,100.0	1,098.9	1,109.7	1,108.3	2.0	2.1	172.91	37.8	-101.1	139.3	135.3	3.95	35.262		
1,193.5	1,191.9	1,205.3	1,203.6	2.2	2.3	175.19	39.3	-93.4	143.4	139.1	4.30	33.381		
1,200.0	1,198.3	1,211.9	1,210.2	2.2	2.3	175.34	39.4	-92.8	143.7	139.4	4.32	33.263		
1,300.0	1,297.5	1,314.3	1,312.1	2.5	2.5	177.56	40.0	-82.9	147.4	142.7	4.69	31.405		
1,400.0	1,396.8	1,416.7	1,413.9	2.7	2.7	179.61	39.6	-71.5	149.5	144.4	5.07	29.493		
1,500.0	1,496.1	1,516.6	1,513.0	3.0	2.9	-178.46	38.7	-59.8	150.9	145.4	5.45	27.698		
1,600.0	1,595.3	1,616.4	1,612.2	3.2	3.2	-176.57	37.8	-48.0	152.5	146.7	5.83	26.139		
1,700.0	1,694.6	1,716.3	1,711.3	3.5	3.4	-174.72	36.9	-36.2	154.2	148.0	6.23	24.774		
1,800.0	1,793.9	1,816.1	1,810.5	3.8	3.7	-172.91	36.0	-24.4	156.1	149.5	6.62	23.570		
1,900.0	1,893.1	1,916.0	1,909.7	4.0	3.9	-171.15	35.2	-12.6	158.2	151.2	7.03	22.501		
2,000.0	1,992.4	2,015.9	2,008.8	4.3	4.2	-169.43	34.3	-0.8	160.4	153.0	7.45	21.546		
2,100.0	2,091.7	2,115.7	2,108.0	4.6	4.4	-167.76	33.4	11.0	162.8	154.9	7.87	20.689		
2,200.0	2,190.9	2,215.6	2,207.1	4.8	4.7	-166.14	32.5	22.8	165.2	156.9	8.30	19.917		
2,300.0	2,290.2	2,315.5	2,306.3	5.1	4.9	-164.57	31.7	34.6	167.9	159.1	8.73	19.218		
2,400.0	2,389.5	2,415.3	2,405.4	5.4	5.2	-163.05	30.8	46.4	170.6	161.4	9.18	18.584		
2,500.0	2,488.7	2,515.2	2,504.6	5.6	5.5	-161.58	29.9	58.2	173.4	163.8	9.63	18.007		
2,600.0	2,588.0	2,615.0	2,603.8	5.9	5.7	-160.16	29.0	70.0	176.4	166.3	10.09	17.480		
2,700.0	2,687.3	2,714.9	2,702.9	6.2	6.0	-158.78	28.1	81.8	179.5	168.9	10.56	16.997		
2,800.0	2,786.6	2,814.8	2,802.1	6.5	6.2	-157.45	27.3	93.6	182.6	171.6	11.03	16.555		
2,900.0	2,885.8	2,914.6	2,901.2	6.7	6.5	-156.17	26.4	105.4	185.9	174.4	11.51	16.149		
3,000.0	2,985.1	3,014.5	3,000.4	7.0	6.8	-154.93	25.5	117.2	189.2	177.2	12.00	15.775		
3,100.0	3,084.4	3,114.3	3,099.6	7.3	7.0	-153.74	24.6	129.0	192.7	180.2	12.49	15.430		
3,200.0	3,183.6	3,214.2	3,198.7	7.5	7.3	-152.58	23.7	140.8	196.2	183.2	12.98	15.112		
3,300.0	3,282.9	3,314.1	3,297.9	7.8	7.6	-151.47	22.9	152.6	199.8	186.3	13.48	14.817		
3,400.0	3,382.2	3,413.9	3,397.0	8.1	7.8	-150.40	22.0	164.4	203.4	189.5	13.99	14.545		
3,500.0	3,481.4	3,513.8	3,496.2	8.4	8.1	-149.37	21.1	176.2	207.2	192.7	14.50	14.292		
3,600.0	3,580.7	3,613.7	3,595.4	8.6	8.4	-148.37	20.2	188.0	211.0	196.0	15.01	14.057		
3,700.0	3,680.0	3,713.5	3,694.5	8.9	8.6	-147.41	19.3	199.8	214.8	199.3	15.52	13.839		
3,800.0	3,779.2	3,813.4	3,793.7	9.2	8.9	-146.48	18.5	211.5	218.8	202.7	16.04	13.635		
3,900.0	3,878.5	3,913.2	3,892.8	9.4	9.2	-145.59	17.6	223.3	222.7	206.2	16.57	13.446		
4,000.0	3,977.8	4,013.1	3,992.0	9.7	9.4	-144.72	16.7	235.1	226.8	209.7	17.09	13.269		
4,100.0	4,077.0	4,113.0	4,091.1	10.0	9.7	-143.89	15.8	246.9	230.8	213.2	17.62	13.104		
4,200.0	4,176.3	4,212.8	4,190.3	10.3	10.0	-143.09	15.0	258.7	235.0	216.8	18.14	12.949		
4,300.0	4,275.6	4,312.7	4,289.5	10.5	10.2	-142.31	14.1	270.5	239.1	220.4	18.67	12.804		
4,400.0	4,374.8	4,412.5	4,388.6	10.8	10.5	-141.56	13.2	282.3	243.3	224.1	19.21	12.669		
4,500.0	4,474.1	4,512.4	4,487.8	11.1	10.8	-140.84	12.3	294.1	247.6	227.8	19.74	12.542		
4,600.0	4,573.4	4,612.3	4,586.9	11.4	11.0	-140.14	11.4	305.9	251.9	231.6	20.28	12.422		
4,700.0	4,672.6	4,712.1	4,686.1	11.6	11.3	-139.46	10.6	317.7	256.2	235.4	20.81	12.310		
4,800.0	4,771.9	4,812.0	4,785.3	11.9	11.6	-138.81	9.7	329.5	260.6	239.2	21.35	12.204		
4,900.0	4,871.2	4,911.9	4,884.4	12.2	11.8	-138.18	8.8	341.3	264.9	243.1	21.89	12.104		

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 4R-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 4R-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 4F-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
5,000.0	4,970.5	5,011.7	4,983.6	12.4	12.1	-137.57	7.9	353.1	269.4	24.6	12.010			
5,100.0	5,069.7	5,111.6	5,082.7	12.7	12.4	-136.98	7.0	364.9	273.8	25.0	11.921			
5,200.0	5,169.0	5,211.4	5,181.9	13.0	12.7	-136.41	6.2	376.7	278.3	25.4	11.838			
5,300.0	5,268.3	5,311.3	5,281.0	13.3	12.9	-135.85	5.3	388.5	282.8	25.8	11.758			
5,400.0	5,367.5	5,411.2	5,380.2	13.5	13.2	-135.32	4.4	400.3	287.3	26.2	11.683			
5,500.0	5,466.8	5,511.0	5,479.4	13.8	13.5	-134.80	3.5	412.1	291.9	26.6	11.612			
5,600.0	5,566.1	5,610.9	5,578.5	14.1	13.7	-134.29	2.6	423.9	296.5	27.0	11.545			
5,700.0	5,665.3	5,710.7	5,677.7	14.4	14.0	-133.80	1.8	435.7	301.1	27.4	11.481			
5,800.0	5,764.6	5,810.6	5,776.8	14.6	14.3	-133.33	0.9	447.5	305.7	27.8	11.420			
5,900.0	5,863.9	5,910.5	5,876.0	14.9	14.5	-132.87	0.0	459.3	310.3	28.3	11.363			
6,000.0	5,963.1	6,010.3	5,975.2	15.2	14.8	-132.42	-0.9	471.1	315.0	28.7	11.308			
6,100.0	6,062.4	6,110.2	6,074.3	15.5	15.1	-131.99	-1.7	482.9	319.7	29.1	11.256			
6,200.0	6,161.7	6,210.1	6,173.5	15.7	15.4	-131.57	-2.6	494.6	324.4	29.5	11.206			
6,300.0	6,260.9	6,309.9	6,272.6	16.0	15.6	-131.16	-3.5	506.4	329.1	29.9	11.159			
6,400.0	6,360.2	6,409.8	6,371.8	16.3	15.9	-130.77	-4.4	518.2	333.8	30.3	11.114			
6,500.0	6,459.5	6,509.6	6,471.0	16.6	16.2	-130.38	-5.3	530.0	338.6	30.8	11.071			
6,600.0	6,558.7	6,609.5	6,570.1	16.8	16.4	-130.01	-6.1	541.8	343.4	31.2	11.030			
6,700.0	6,658.0	6,709.4	6,669.3	17.1	16.7	-129.64	-7.0	553.6	348.1	31.6	10.991			
6,787.9	6,745.2	6,797.1	6,756.4	17.3	16.9	-129.33	-7.8	564.0	352.3	32.0	10.958			
6,800.0	6,757.3	6,809.2	6,768.4	17.4	17.0	-121.85	-7.9	565.4	352.8	32.0	10.950			
6,850.0	6,807.0	6,859.2	6,818.1	17.5	17.1	-85.38	-8.3	571.3	352.7	32.0	10.854			
6,900.0	6,856.6	6,909.1	6,867.6	17.6	17.2	-57.31	-8.8	577.2	349.1	31.6	10.655			
6,950.0	6,905.9	6,958.6	6,916.7	17.6	17.4	-42.45	-9.2	583.1	342.1	30.9	10.359			
7,000.0	6,954.6	7,007.5	6,965.3	17.7	17.5	-34.58	-9.6	588.8	331.7	29.8	9.967			
7,050.0	7,002.5	7,059.0	7,016.4	17.7	17.7	-30.19	-10.1	594.9	317.9	28.4	9.482			
7,100.0	7,049.3	7,138.4	7,095.0	17.7	17.9	-28.36	-16.1	604.4	297.9	26.4	8.852			
7,150.0	7,094.9	7,206.5	7,161.6	17.7	18.1	-28.57	-28.2	612.5	270.5	23.7	8.089			
7,200.0	7,139.0	7,262.8	7,215.4	17.8	18.2	-30.99	-42.9	619.1	237.2	20.4	7.188			
7,250.0	7,181.4	7,307.7	7,257.5	17.7	18.4	-36.36	-57.7	624.4	199.5	16.7	6.154			
7,300.0	7,221.8	7,342.6	7,289.5	17.7	18.5	-46.18	-71.0	628.4	158.8	12.7	5.014			
7,350.0	7,260.1	7,368.8	7,313.1	17.8	18.6	-61.85	-82.1	631.4	117.0	8.6	3.824			
7,400.0	7,296.2	7,387.9	7,330.0	17.8	18.6	-81.15	-90.7	633.6	77.4	4.8	2.715			
7,450.0	7,329.7	7,401.0	7,341.5	17.8	18.7	-96.80	-96.8	635.1	52.0	2.6	2.015			
7,459.9	7,336.1	7,403.0	7,343.2	17.8	18.7	-98.97	-97.8	635.3	51.1	2.4	1.951 CC, ES, SF			
7,500.0	7,360.6	7,409.2	7,348.6	17.9	18.7	-104.25	-100.8	636.0	64.6	3.4	2.146			
7,550.0	7,388.8	7,413.3	7,352.2	17.9	18.7	-103.46	-102.8	636.4	103.0	7.0	3.204			
7,600.0	7,414.0	7,414.0	7,352.8	18.0	18.7	-94.99	-103.1	636.5	148.5	11.5	4.558			
7,650.0	7,436.1	7,411.9	7,350.9	18.2	18.7	-79.94	-102.1	636.3	196.2	16.3	5.994			
7,700.0	7,455.1	7,407.4	7,347.0	18.4	18.7	-62.27	-99.9	635.8	244.5	21.6	7.446			
7,750.0	7,470.8	7,400.0	7,340.6	18.6	18.7	-46.74	-96.3	634.9	292.8	25.9	8.897			
7,800.0	7,483.2	7,400.0	7,340.6	18.8	18.7	-38.36	-96.3	634.9	340.9	30.7	10.203			
7,850.0	7,492.3	7,382.9	7,325.6	19.1	18.6	-29.01	-88.3	633.0	388.1	35.4	11.675			
7,900.0	7,497.9	7,371.9	7,315.8	19.4	18.6	-24.07	-83.4	631.8	434.7	40.1	13.010			
7,950.0	7,500.0	7,350.0	7,296.2	19.7	18.5	-20.09	-74.1	629.3	480.6	44.7	14.432			
7,955.7	7,500.0	7,350.0	7,296.2	19.7	18.5	-19.87	-74.1	629.3	485.6	45.2	14.554			
8,000.0	7,500.0	7,350.0	7,296.2	20.1	18.5	-19.87	-74.1	629.3	525.6	49.1	15.526			
8,100.0	7,500.0	7,325.4	7,273.8	20.9	18.4	-18.69	-64.3	626.4	617.1	58.3	18.085			
8,200.0	7,500.0	7,300.0	7,250.3	21.8	18.3	-17.66	-55.0	623.5	709.9	67.6	20.696			
8,300.0	7,500.0	7,300.0	7,250.3	22.9	18.3	-17.66	-55.0	623.5	803.6	76.8	23.053			
8,400.0	7,500.0	7,274.5	7,226.5	24.0	18.3	-16.78	-46.5	620.5	897.9	86.3	25.711			
8,495.7	7,500.0	7,250.0	7,203.3	25.1	18.2	-16.05	-39.2	617.6	989.0	95.4	28.279			
8,500.0	7,500.0	7,250.0	7,203.3	25.2	18.2	-16.05	-39.2	617.6	993.1	95.1	28.382			

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 4R-32H-O268
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Reference Well:	HWY 4R-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 4R-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 4R-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-89.75	0.5	-110.0	110.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.75	0.5	-110.0	110.0	109.7	0.30	368.426		
200.0	200.0	201.0	201.0	0.3	0.3	-89.75	0.5	-110.0	110.0	109.3	0.65	169.814		
300.0	300.0	301.0	301.0	0.5	0.5	-89.75	0.5	-110.0	110.0	109.0	1.00	110.334		
400.0	400.0	401.0	401.0	0.7	0.7	-89.75	0.5	-110.0	110.0	108.6	1.35	81.713		
500.0	500.0	501.0	501.0	0.8	0.8	-89.75	0.5	-110.0	110.0	108.3	1.69	64.881		
600.0	600.0	603.0	603.0	1.0	1.0	150.83	0.5	-109.0	109.8	107.8	2.05	53.641		
700.0	700.0	704.9	704.9	1.2	1.2	151.55	0.5	-106.3	109.4	107.0	2.40	45.598		
800.0	799.9	806.8	806.7	1.4	1.4	152.76	0.6	-101.7	108.8	106.1	2.75	39.529		
900.0	899.7	908.7	908.3	1.6	1.6	154.47	0.7	-95.4	108.1	105.0	3.11	34.780		
1,000.0	999.4	1,010.5	1,009.8	1.8	1.8	156.69	0.8	-87.2	107.2	103.8	3.46	30.974		
1,100.0	1,098.9	1,112.3	1,111.1	2.0	2.0	159.45	1.0	-77.3	106.4	102.6	3.82	27.880		
1,193.5	1,191.9	1,207.4	1,205.6	2.2	2.3	162.52	1.2	-66.4	105.9	101.7	4.15	25.493		
1,200.0	1,198.3	1,213.9	1,212.1	2.2	2.3	162.74	1.2	-65.5	105.8	101.7	4.18	25.343		
1,300.0	1,297.5	1,315.5	1,312.7	2.5	2.5	166.44	1.4	-52.0	104.6	100.1	4.54	23.053		
1,400.0	1,396.8	1,416.9	1,413.0	2.7	2.8	170.56	1.6	-36.8	102.1	97.2	4.91	20.807		
1,500.0	1,496.1	1,517.2	1,511.9	3.0	3.1	175.16	1.9	-20.2	98.9	93.6	5.30	18.654		
1,600.0	1,595.3	1,616.8	1,610.2	3.2	3.4	-179.95	2.2	-3.7	96.3	90.5	5.73	16.804		
1,700.0	1,694.6	1,716.4	1,708.4	3.5	3.8	-174.83	2.4	12.9	94.4	88.2	6.19	15.234		
1,800.0	1,793.9	1,816.0	1,806.6	3.8	4.1	-169.54	2.7	29.4	93.2	86.5	6.70	13.903		
1,888.4	1,881.6	1,904.1	1,893.4	4.0	4.4	-164.79	3.0	44.1	92.9	85.7	7.20	12.906 CC		
1,900.0	1,893.1	1,915.7	1,904.8	4.0	4.4	-164.17	3.0	46.0	92.9	85.6	7.27	12.787		
2,000.0	1,992.4	2,015.3	2,003.1	4.3	4.7	-158.81	3.2	62.5	93.4	85.5	7.87	11.865 ES		
2,100.0	2,091.7	2,114.9	2,101.3	4.6	5.1	-153.55	3.5	79.1	94.7	86.2	8.52	11.119		
2,200.0	2,190.9	2,214.5	2,199.5	4.8	5.4	-148.48	3.8	95.7	96.8	87.6	9.20	10.528		
2,300.0	2,290.2	2,314.1	2,297.8	5.1	5.7	-143.66	4.0	112.2	99.6	89.8	9.89	10.073		
2,400.0	2,389.5	2,413.7	2,396.0	5.4	6.0	-139.13	4.3	128.8	103.1	92.5	10.60	9.734		
2,500.0	2,488.7	2,513.4	2,494.2	5.6	6.4	-134.92	4.6	145.3	107.2	95.9	11.30	9.491		
2,600.0	2,588.0	2,613.0	2,592.5	5.9	6.7	-131.03	4.8	161.9	111.9	99.9	12.00	9.326		
2,700.0	2,687.3	2,712.6	2,690.7	6.2	7.0	-127.47	5.1	178.4	117.0	104.3	12.68	9.224		
2,800.0	2,786.6	2,812.2	2,788.9	6.5	7.4	-124.22	5.4	195.0	122.5	109.1	13.36	9.172		
2,900.0	2,885.8	2,911.8	2,887.1	6.7	7.7	-121.26	5.6	211.5	128.4	114.4	14.02	9.160 SF		
3,000.0	2,985.1	3,011.4	2,985.4	7.0	8.0	-118.56	5.9	228.1	134.6	119.9	14.66	9.178		
3,100.0	3,084.4	3,111.1	3,083.6	7.3	8.4	-116.10	6.2	244.6	141.0	125.7	15.30	9.219		
3,200.0	3,183.6	3,210.7	3,181.8	7.5	8.7	-113.86	6.4	261.2	147.8	131.8	15.92	9.279		
3,300.0	3,282.9	3,310.3	3,280.1	7.8	9.1	-111.82	6.7	277.7	154.7	138.1	16.54	9.352		
3,400.0	3,382.2	3,409.9	3,378.3	8.1	9.4	-109.95	7.0	294.3	161.8	144.6	17.14	9.436		
3,500.0	3,481.4	3,509.5	3,476.5	8.4	9.7	-108.24	7.2	310.9	169.0	151.3	17.74	9.527		
3,600.0	3,580.7	3,609.1	3,574.8	8.6	10.1	-106.67	7.5	327.4	176.4	158.1	18.33	9.623		
3,700.0	3,680.0	3,708.7	3,673.0	8.9	10.4	-105.23	7.8	344.0	183.9	165.0	18.91	9.723		
3,800.0	3,779.2	3,808.4	3,771.2	9.2	10.7	-103.91	8.0	360.5	191.5	172.0	19.49	9.824		
3,900.0	3,878.5	3,908.0	3,869.4	9.4	11.1	-102.68	8.3	377.1	199.2	179.1	20.07	9.927		
4,000.0	3,977.8	4,007.6	3,967.7	9.7	11.4	-101.55	8.6	393.6	207.0	186.4	20.64	10.031		
4,100.0	4,077.0	4,107.2	4,065.9	10.0	11.8	-100.50	8.8	410.2	214.9	193.7	21.20	10.134		
4,200.0	4,176.3	4,206.8	4,164.1	10.3	12.1	-99.52	9.1	426.7	222.8	201.0	21.77	10.236		
4,300.0	4,275.6	4,306.4	4,262.4	10.5	12.4	-98.61	9.4	443.3	230.8	208.5	22.33	10.337		
4,400.0	4,374.8	4,406.1	4,360.6	10.8	12.8	-97.76	9.6	459.8	238.8	215.9	22.88	10.436		
4,500.0	4,474.1	4,505.7	4,458.8	11.1	13.1	-96.97	9.9	476.4	246.9	223.5	23.44	10.534		
4,600.0	4,573.4	4,605.3	4,557.1	11.4	13.4	-96.23	10.2	492.9	255.1	231.1	23.99	10.630		
4,700.0	4,672.6	4,704.9	4,655.3	11.6	13.8	-95.53	10.4	509.5	263.2	238.7	24.55	10.724		
4,800.0	4,771.9	4,804.5	4,753.5	11.9	14.1	-94.88	10.7	526.1	271.4	246.3	25.10	10.815		
4,900.0	4,871.2	4,904.1	4,851.7	12.2	14.5	-94.26	11.0	542.6	279.7	254.0	25.65	10.905		

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 4R-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 4R-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: O-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	4,970.5	5,003.7	4,950.0	12.4	14.8	-93.68	11.2	559.2	288.0	261.8	26.20	10.993		
5,100.0	5,069.7	5,103.4	5,048.2	12.7	15.1	-93.13	11.5	575.7	296.3	269.5	26.74	11.078		
5,200.0	5,169.0	5,203.0	5,146.4	13.0	15.5	-92.62	11.8	592.3	304.6	277.3	27.29	11.162		
5,300.0	5,268.3	5,302.6	5,244.7	13.3	15.8	-92.12	12.0	608.8	313.0	285.1	27.84	11.243		
5,400.0	5,367.5	5,402.2	5,342.9	13.5	16.2	-91.66	12.3	625.4	321.3	293.0	28.38	11.322		
5,500.0	5,466.8	5,501.8	5,441.1	13.8	16.5	-91.22	12.6	641.9	329.7	300.8	28.93	11.399		
5,600.0	5,566.1	5,601.4	5,539.4	14.1	16.8	-90.80	12.8	658.5	338.1	308.7	29.47	11.474		
5,700.0	5,665.3	5,701.1	5,637.6	14.4	17.2	-90.40	13.1	675.0	346.6	316.6	30.01	11.547		
5,800.0	5,764.6	5,800.7	5,735.8	14.6	17.5	-90.02	13.4	691.6	355.0	324.5	30.56	11.619		
5,900.0	5,863.9	5,900.3	5,834.0	14.9	17.9	-89.66	13.6	708.1	363.5	332.4	31.10	11.688		
6,000.0	5,963.1	5,999.9	5,932.3	15.2	18.2	-89.31	13.9	724.7	372.0	340.3	31.64	11.756		
6,100.0	6,062.4	6,099.5	6,030.5	15.5	18.5	-88.98	14.2	741.3	380.4	348.3	32.18	11.822		
6,200.0	6,161.7	6,199.1	6,128.7	15.7	18.9	-88.66	14.4	757.8	388.9	356.2	32.72	11.886		
6,300.0	6,260.9	6,298.8	6,227.0	16.0	19.2	-88.36	14.7	774.4	397.5	364.2	33.26	11.948		
6,400.0	6,360.2	6,398.4	6,325.2	16.3	19.6	-88.07	15.0	790.9	406.0	372.2	33.81	12.009		
6,500.0	6,459.5	6,498.0	6,423.4	16.6	19.9	-87.79	15.2	807.5	414.5	380.2	34.35	12.069		
6,600.0	6,558.7	6,597.6	6,521.7	16.8	20.2	-87.53	15.5	824.0	423.1	388.2	34.89	12.127		
6,700.0	6,658.0	6,697.2	6,619.9	17.1	20.6	-87.27	15.8	840.6	431.6	396.2	35.43	12.183		
6,787.9	6,745.2	6,784.7	6,706.2	17.3	20.9	-87.05	16.0	855.1	439.1	403.2	35.90	12.232		
6,800.0	6,757.3	6,796.8	6,718.1	17.4	20.9	-79.63	16.0	857.1	440.1	404.1	35.96	12.237		
6,850.0	6,807.0	6,897.1	6,816.7	17.5	21.3	-42.16	9.7	873.7	439.5	403.2	36.29	12.111		
6,900.0	6,856.6	6,994.7	6,910.9	17.6	21.6	-11.02	-9.8	889.6	430.3	394.2	36.10	11.920		
6,950.0	6,905.9	7,080.8	6,991.2	17.6	21.9	8.93	-37.7	903.2	413.9	378.4	35.52	11.652		
7,000.0	6,954.6	7,152.9	7,055.5	17.7	22.1	23.74	-68.4	914.0	392.1	357.4	34.71	11.295		
7,050.0	7,002.5	7,210.6	7,104.5	17.7	22.3	36.54	-97.6	922.2	367.0	333.2	33.79	10.860		
7,100.0	7,049.3	7,255.3	7,140.9	17.7	22.5	48.09	-122.9	928.4	340.8	308.0	32.80	10.390		
7,150.0	7,094.9	7,289.0	7,167.2	17.7	22.7	58.18	-143.5	932.8	315.6	283.9	31.70	9.955		
7,200.0	7,139.0	7,313.5	7,185.7	17.8	22.8	66.40	-159.3	935.9	293.6	263.1	30.44	9.644		
7,250.0	7,181.4	7,330.6	7,198.3	17.7	22.8	72.54	-170.7	938.1	276.9	247.9	29.00	9.550		
7,300.0	7,221.8	7,341.7	7,206.3	17.7	22.9	76.61	-178.2	939.4	267.7	240.2	27.49	9.737		
7,328.3	7,243.8	7,345.7	7,209.2	17.8	22.9	78.05	-180.9	939.9	266.2	239.5	26.71	9.968		
7,350.0	7,260.1	7,347.9	7,210.7	17.8	22.9	78.76	-182.4	940.1	267.1	240.9	26.19	10.197		
7,400.0	7,296.2	7,350.0	7,212.3	17.8	22.9	79.16	-183.9	940.4	275.5	250.1	25.43	10.832		
7,450.0	7,329.7	7,350.0	7,212.3	17.8	22.9	78.25	-183.9	940.4	292.2	266.8	25.38	11.513		
7,500.0	7,360.6	7,345.1	7,208.8	17.9	22.9	75.49	-180.5	939.8	315.8	289.9	25.84	12.220		
7,550.0	7,388.8	7,339.0	7,204.4	17.9	22.9	71.77	-176.3	939.1	344.6	317.9	26.67	12.922		
7,600.0	7,414.0	7,330.9	7,198.5	18.0	22.8	67.09	-170.9	938.1	377.2	349.6	27.65	13.643		
7,650.0	7,436.1	7,321.3	7,191.5	18.2	22.8	61.75	-164.4	936.9	412.4	383.7	28.66	14.387		
7,700.0	7,455.1	7,310.3	7,183.3	18.4	22.8	56.07	-157.2	935.5	449.2	419.6	29.66	15.146		
7,750.0	7,470.8	7,300.0	7,175.6	18.6	22.7	50.64	-150.5	934.2	487.0	456.3	30.68	15.873		
7,800.0	7,483.2	7,284.9	7,164.1	18.8	22.6	44.90	-141.0	932.3	525.2	493.7	31.52	16.664		
7,850.0	7,492.3	7,270.9	7,153.2	19.1	22.6	39.84	-132.3	930.4	563.4	531.0	32.37	17.404		
7,900.0	7,497.9	7,250.0	7,136.7	19.4	22.5	34.77	-119.8	927.7	601.3	568.3	32.99	18.228		
7,950.0	7,500.0	7,250.0	7,136.7	19.7	22.5	31.94	-119.8	927.7	638.7	604.5	34.22	18.665		
7,955.7	7,500.0	7,238.8	7,127.6	19.7	22.5	30.83	-113.3	926.1	642.7	608.7	34.03	18.888		
8,000.0	7,500.0	7,225.1	7,116.5	20.1	22.4	29.88	-105.6	924.3	675.8	641.1	34.66	19.499		
8,100.0	7,500.0	7,200.0	7,095.7	20.9	22.3	28.22	-92.0	920.8	753.1	717.1	35.97	20.936		
8,200.0	7,500.0	7,171.8	7,071.8	21.8	22.2	26.44	-77.6	916.7	833.5	796.6	36.91	22.580		
8,300.0	7,500.0	7,150.0	7,053.0	22.9	22.1	25.14	-67.1	913.6	916.5	878.7	37.77	24.267		

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 4R-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 4R-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 4H-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-89.76	0.4	-99.9	99.9					
100.0	100.0	101.0	101.0	0.1	0.2	-89.76	0.4	-99.9	99.9	99.6	0.30	334.677		
200.0	200.0	201.0	201.0	0.3	0.3	-89.76	0.4	-99.9	99.9	99.2	0.65	154.258		
300.0	300.0	301.0	301.0	0.5	0.5	-89.76	0.4	-99.9	99.9	98.9	1.00	100.227		
316.3	316.3	317.3	317.3	0.5	0.5	-89.76	0.4	-99.9	99.9	98.8	1.05	94.805 CC		
400.0	400.0	401.0	401.0	0.7	0.7	-89.76	0.4	-99.9	99.9	98.5	1.35	74.227		
400.5	400.5	401.5	401.5	0.7	0.7	-89.76	0.4	-99.9	99.9	98.5	1.35	74.134		
500.0	500.0	500.9	500.9	0.8	0.9	-88.74	2.2	-99.9	99.9	98.2	1.70	58.876 ES		
600.0	600.0	600.6	600.5	1.0	1.0	154.82	7.4	-99.9	101.0	98.9	2.06	49.019		
700.0	700.0	702.0	701.6	1.2	1.2	159.20	14.2	-99.0	103.3	100.9	2.43	42.494		
800.0	799.9	803.5	802.9	1.4	1.4	163.49	20.3	-96.5	106.2	103.3	2.81	37.839		
900.0	899.7	905.1	904.2	1.6	1.6	167.66	25.7	-92.3	109.5	106.3	3.18	34.413		
1,000.0	999.4	1,006.7	1,005.5	1.8	1.8	171.69	30.4	-86.5	113.3	109.8	3.56	31.827		
1,100.0	1,098.9	1,108.3	1,106.8	2.0	2.1	175.56	34.5	-79.0	117.6	113.7	3.94	29.828		
1,193.5	1,191.9	1,203.5	1,201.6	2.2	2.3	179.02	37.7	-70.4	122.1	117.8	4.31	28.341		
1,200.0	1,198.3	1,210.0	1,208.1	2.2	2.3	179.25	37.9	-69.8	122.4	118.1	4.33	28.248		
1,300.0	1,297.5	1,311.9	1,309.3	2.5	2.5	-177.22	40.6	-58.9	126.6	121.9	4.73	26.762		
1,400.0	1,396.8	1,413.7	1,410.4	2.7	2.8	-173.74	42.6	-46.3	129.6	124.4	5.14	25.186		
1,500.0	1,496.1	1,515.7	1,511.3	3.0	3.0	-170.20	44.0	-32.1	131.3	125.7	5.58	23.535		
1,600.0	1,595.3	1,617.5	1,611.9	3.2	3.3	-166.49	44.7	-16.2	131.8	125.7	6.04	21.829		
1,700.0	1,694.6	1,719.3	1,712.1	3.5	3.6	-162.50	44.6	1.3	131.2	124.7	6.53	20.089		
1,800.0	1,793.9	1,819.9	1,811.0	3.8	4.0	-158.20	44.0	20.1	129.8	122.8	7.07	18.376		
1,900.0	1,893.1	1,919.4	1,908.7	4.0	4.3	-153.82	43.3	38.9	129.0	121.4	7.64	16.891		
1,959.9	1,952.6	1,979.1	1,967.3	4.2	4.5	-151.17	42.9	50.2	128.8	120.9	7.99	16.116		
2,000.0	1,992.4	2,018.9	2,006.4	4.3	4.6	-149.40	42.6	57.8	128.9	120.7	8.24	15.643		
2,100.0	2,091.7	2,118.4	2,104.1	4.6	5.0	-145.01	41.9	76.6	129.6	120.7	8.87	14.606		
2,200.0	2,190.9	2,217.9	2,201.8	4.8	5.3	-140.69	41.2	95.4	131.1	121.5	9.53	13.754		
2,300.0	2,290.2	2,317.4	2,299.5	5.1	5.7	-136.49	40.5	114.2	133.2	123.0	10.20	13.064		
2,400.0	2,389.5	2,416.9	2,397.2	5.4	6.0	-132.44	39.8	133.0	136.1	125.2	10.88	12.515		
2,500.0	2,488.7	2,516.4	2,494.9	5.6	6.4	-128.58	39.1	151.9	139.7	128.1	11.56	12.084		
2,600.0	2,588.0	2,615.9	2,592.6	5.9	6.7	-124.92	38.4	170.7	143.8	131.6	12.23	11.755		
2,700.0	2,687.3	2,715.4	2,690.3	6.2	7.1	-121.48	37.7	189.5	148.5	135.6	12.90	11.510		
2,800.0	2,786.6	2,814.9	2,788.0	6.5	7.5	-118.26	37.0	208.3	153.7	140.2	13.56	11.334		
2,900.0	2,885.8	2,914.4	2,885.7	6.7	7.8	-115.26	36.3	227.2	159.4	145.2	14.21	11.216		
3,000.0	2,985.1	3,013.9	2,983.4	7.0	8.2	-112.46	35.6	246.0	165.4	150.6	14.84	11.145		
3,100.0	3,084.4	3,113.4	3,081.1	7.3	8.6	-109.87	34.9	264.8	171.9	156.4	15.47	11.112		
3,200.0	3,183.6	3,212.9	3,178.8	7.5	8.9	-107.48	34.2	283.6	178.6	162.6	16.08	11.110 SF		
3,300.0	3,282.9	3,312.4	3,276.5	7.8	9.3	-105.25	33.4	302.4	185.7	169.0	16.68	11.133		
3,400.0	3,382.2	3,411.9	3,374.2	8.1	9.7	-103.20	32.7	321.3	193.0	175.7	17.27	11.176		
3,500.0	3,481.4	3,511.5	3,471.9	8.4	10.0	-101.29	32.0	340.1	200.5	182.7	17.85	11.234		
3,600.0	3,580.7	3,611.0	3,569.6	8.6	10.4	-99.53	31.3	358.9	208.3	189.9	18.42	11.306		
3,700.0	3,680.0	3,710.5	3,667.3	8.9	10.8	-97.89	30.6	377.7	216.2	197.2	18.99	11.386		
3,800.0	3,779.2	3,810.0	3,765.0	9.2	11.2	-96.37	29.9	396.6	224.3	204.8	19.55	11.475		
3,900.0	3,878.5	3,909.5	3,862.7	9.4	11.5	-94.95	29.2	415.4	232.5	212.4	20.10	11.569		
4,000.0	3,977.8	4,009.0	3,960.4	9.7	11.9	-93.64	28.5	434.2	240.9	220.3	20.65	11.667		
4,100.0	4,077.0	4,108.5	4,058.2	10.0	12.3	-92.41	27.8	453.0	249.4	228.2	21.19	11.769		
4,200.0	4,176.3	4,208.0	4,155.9	10.3	12.6	-91.26	27.1	471.8	258.0	236.3	21.73	11.872		
4,300.0	4,275.6	4,307.5	4,253.6	10.5	13.0	-90.19	26.4	490.7	266.7	244.4	22.27	11.976		
4,400.0	4,374.8	4,407.0	4,351.3	10.8	13.4	-89.18	25.7	509.5	275.5	252.7	22.80	12.081		
4,500.0	4,474.1	4,506.5	4,449.0	11.1	13.8	-88.24	25.0	528.3	284.3	261.0	23.33	12.186		
4,600.0	4,573.4	4,606.0	4,546.7	11.4	14.1	-87.35	24.3	547.1	293.2	269.4	23.86	12.291		
4,700.0	4,672.6	4,705.5	4,644.4	11.6	14.5	-86.52	23.6	566.0	302.2	277.9	24.39	12.395		

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 4R-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 4R-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 4H-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		
4,800.0	4,771.9	4,805.0	4,742.1	11.9	14.9	-85.73	22.9	584.8	311.3	286.4	24.91	12.497		
4,900.0	4,871.2	4,904.5	4,839.8	12.2	15.3	-84.99	22.1	603.6	320.4	295.0	25.43	12.599		
5,000.0	4,970.5	5,004.0	4,937.5	12.4	15.6	-84.29	21.4	622.4	329.6	303.6	25.95	12.699		
5,100.0	5,069.7	5,103.5	5,035.2	12.7	16.0	-83.63	20.7	641.2	338.8	312.3	26.47	12.797		
5,200.0	5,169.0	5,203.0	5,132.9	13.0	16.4	-83.00	20.0	660.1	348.0	321.0	26.99	12.894		
5,300.0	5,268.3	5,302.5	5,230.6	13.3	16.8	-82.41	19.3	678.9	357.3	329.8	27.51	12.989		
5,400.0	5,367.5	5,402.0	5,328.3	13.5	17.1	-81.84	18.6	697.7	366.6	338.6	28.03	13.082		
5,500.0	5,466.8	5,501.5	5,426.0	13.8	17.5	-81.31	17.9	716.5	376.0	347.4	28.54	13.174		
5,600.0	5,566.1	5,601.0	5,523.7	14.1	17.9	-80.80	17.2	735.4	385.4	356.3	29.06	13.263		
5,700.0	5,665.3	5,700.5	5,621.4	14.4	18.2	-80.31	16.5	754.2	394.8	365.2	29.57	13.351		
5,800.0	5,764.6	5,800.0	5,719.1	14.6	18.6	-79.85	15.8	773.0	404.2	374.2	30.08	13.437		
5,900.0	5,863.9	5,899.5	5,816.8	14.9	19.0	-79.40	15.1	791.8	413.7	383.1	30.60	13.521		
6,000.0	5,963.1	5,999.0	5,914.5	15.2	19.4	-78.98	14.4	810.6	423.2	392.1	31.11	13.603		
6,100.0	6,062.4	6,098.5	6,012.2	15.5	19.7	-78.58	13.7	829.5	432.7	401.1	31.62	13.683		
6,200.0	6,161.7	6,198.0	6,109.9	15.7	20.1	-78.19	13.0	848.3	442.3	410.1	32.14	13.762		
6,300.0	6,260.9	6,297.5	6,207.6	16.0	20.5	-77.82	12.3	867.1	451.8	419.2	32.65	13.839		
6,400.0	6,360.2	6,397.0	6,305.3	16.3	20.9	-77.47	11.6	885.9	461.4	428.2	33.16	13.914		
6,500.0	6,459.5	6,496.5	6,403.0	16.6	21.3	-77.13	10.9	904.8	471.0	437.3	33.67	13.988		
6,600.0	6,558.7	6,596.0	6,500.7	16.8	21.6	-76.80	10.1	923.6	480.6	446.4	34.18	14.059		
6,700.0	6,658.0	6,695.5	6,598.4	17.1	22.0	-76.48	9.4	942.4	490.2	455.5	34.69	14.130		
6,787.9	6,745.2	6,782.9	6,684.2	17.3	22.3	-76.22	8.8	958.9	498.7	463.5	35.14	14.190		
6,800.0	6,757.3	6,795.0	6,696.1	17.4	22.4	-68.81	8.7	961.2	499.8	464.6	35.20	14.198		
6,850.0	6,807.0	6,844.8	6,745.0	17.5	22.6	-32.25	8.4	970.6	502.7	467.3	35.37	14.211		
6,900.0	6,856.6	6,894.5	6,793.8	17.6	22.8	-3.55	8.0	980.0	503.1	467.7	35.46	14.190		
6,950.0	6,905.9	6,943.8	6,842.2	17.6	22.9	12.50	7.7	989.4	501.2	465.7	35.44	14.142		
7,000.0	6,954.6	6,992.5	6,890.1	17.7	23.1	22.13	7.3	998.6	496.9	461.6	35.31	14.072		
7,050.0	7,002.5	7,040.4	6,937.1	17.7	23.3	28.92	7.0	1,007.7	490.5	455.5	35.07	13.989		
7,100.0	7,049.3	7,087.3	6,983.1	17.7	23.5	34.45	6.7	1,016.5	482.3	447.6	34.68	13.906		
7,150.0	7,094.9	7,142.7	7,037.5	17.7	23.7	39.96	5.9	1,027.0	472.3	438.1	34.19	13.812		
7,200.0	7,139.0	7,211.3	7,104.6	17.8	23.9	46.86	-0.2	1,039.9	459.1	425.7	33.46	13.721		
7,250.0	7,181.4	7,268.3	7,159.7	17.7	24.2	53.99	-10.2	1,050.5	443.8	411.5	32.38	13.707		
7,300.0	7,221.8	7,314.1	7,203.3	17.7	24.3	60.84	-21.5	1,058.9	428.2	397.2	31.04	13.794		
7,350.0	7,260.1	7,349.8	7,236.7	17.8	24.5	66.94	-32.2	1,065.4	414.0	384.4	29.57	14.001		
7,400.0	7,296.2	7,376.8	7,261.6	17.8	24.6	71.94	-41.5	1,070.2	402.7	374.6	28.12	14.322		
7,450.0	7,329.7	7,396.6	7,279.7	17.8	24.6	75.71	-48.8	1,073.6	395.6	368.7	26.90	14.706		
7,491.4	7,355.5	7,408.4	7,290.3	17.8	24.7	77.86	-53.4	1,075.7	393.7	367.5	26.25	14.998		
7,500.0	7,360.6	7,410.4	7,292.1	17.9	24.7	78.20	-54.2	1,076.0	393.8	367.7	26.17	15.050		
7,550.0	7,388.8	7,419.1	7,299.9	17.9	24.7	79.48	-57.8	1,077.5	397.7	371.7	26.08	15.249		
7,600.0	7,414.0	7,423.7	7,304.0	18.0	24.7	79.64	-59.7	1,078.3	407.5	380.8	26.67	15.276		
7,650.0	7,436.1	7,424.8	7,305.0	18.2	24.8	78.75	-60.2	1,078.5	422.7	394.9	27.81	15.200		
7,700.0	7,455.1	7,423.1	7,303.4	18.4	24.7	76.94	-59.5	1,078.2	442.8	413.5	29.28	15.125		
7,750.0	7,470.8	7,418.9	7,299.7	18.6	24.7	74.29	-57.7	1,077.5	467.1	436.2	30.88	15.125		
7,800.0	7,483.2	7,412.6	7,294.1	18.8	24.7	70.93	-55.2	1,076.4	494.6	462.2	32.48	15.229		
7,850.0	7,492.3	7,400.0	7,282.7	19.1	24.7	66.39	-50.1	1,074.2	524.8	491.0	33.89	15.488		
7,900.0	7,497.9	7,400.0	7,282.7	19.4	24.7	63.27	-50.1	1,074.2	556.9	521.4	35.50	15.687		
7,950.0	7,500.0	7,384.5	7,268.6	19.7	24.6	58.12	-44.2	1,071.5	590.3	553.6	36.66	16.101		
7,955.7	7,500.0	7,383.2	7,267.4	19.7	24.6	57.60	-43.8	1,071.3	594.1	557.3	36.80	16.146		
8,000.0	7,500.0	7,373.4	7,258.5	20.1	24.6	56.49	-40.2	1,069.6	625.0	587.2	37.80	16.535		
8,100.0	7,500.0	7,350.0	7,236.9	20.9	24.5	53.89	-32.3	1,065.4	699.2	659.5	39.62	17.647		
8,200.0	7,500.0	7,336.5	7,224.3	21.8	24.4	52.43	-28.0	1,063.0	778.3	737.2	41.15	18.913		
8,300.0	7,500.0	7,321.6	7,210.4	22.9	24.4	50.85	-23.6	1,060.3	861.3	819.0	42.29	20.365		
8,400.0	7,500.0	7,300.0	7,189.9	24.0	24.3	48.62	-17.7	1,056.4	947.2	904.1	43.07	21.995		

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 4R-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 4R-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 4R-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 4R-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 4I-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	-89.77	0.4	-90.1	90.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.77	0.4	-90.1	90.1	89.8	0.30	303.641		
200.0	200.0	200.0	200.0	0.3	0.3	-89.77	0.4	-90.1	90.1	89.4	0.65	139.511		
300.0	300.0	300.0	300.0	0.5	0.5	-89.77	0.4	-90.1	90.1	89.1	0.99	90.560		
306.1	306.1	306.1	306.1	0.5	0.5	-89.77	0.4	-90.1	90.1	89.1	1.02	88.671 CC		
400.0	400.0	400.0	400.0	0.7	0.7	-89.56	0.7	-90.1	90.1	88.8	1.34	67.035		
500.0	500.0	499.9	499.9	0.8	0.9	-87.90	3.3	-90.1	90.2	88.5	1.70	53.138 ES		
600.0	600.0	599.6	599.4	1.0	1.0	155.97	8.5	-90.1	91.3	89.2	2.06	44.329		
700.0	700.0	698.8	698.3	1.2	1.2	161.27	16.3	-90.1	94.9	92.4	2.44	38.908		
800.0	799.9	800.8	799.9	1.4	1.5	167.34	25.4	-89.0	100.2	97.4	2.83	35.444		
900.0	899.7	903.9	902.7	1.6	1.7	172.71	32.9	-84.7	104.8	101.6	3.22	32.575		
1,000.0	999.4	1,007.3	1,005.6	1.8	1.9	177.58	38.7	-77.2	108.3	104.7	3.61	30.018		
1,100.0	1,098.9	1,110.9	1,108.5	2.0	2.1	-177.83	42.6	-66.4	110.6	106.6	4.01	27.623		
1,193.5	1,191.9	1,207.9	1,204.6	2.2	2.4	-173.63	44.6	-53.3	111.7	107.4	4.39	25.452		
1,200.0	1,198.3	1,214.6	1,211.2	2.2	2.4	-173.34	44.7	-52.3	111.8	107.4	4.42	25.302		
1,300.0	1,297.5	1,318.1	1,313.3	2.5	2.7	-168.68	44.9	-35.0	110.7	105.9	4.85	22.812		
1,400.0	1,396.8	1,421.0	1,414.2	2.7	3.0	-163.44	43.4	-14.7	107.0	101.6	5.33	20.060		
1,500.0	1,496.1	1,520.4	1,511.3	3.0	3.3	-157.77	41.2	6.2	102.7	96.9	5.86	17.519		
1,600.0	1,595.3	1,619.8	1,608.4	3.2	3.7	-151.68	38.9	27.1	99.6	93.2	6.45	15.445		
1,700.0	1,694.6	1,719.1	1,705.5	3.5	4.0	-145.27	36.7	48.0	97.7	90.6	7.09	13.788		
1,799.6	1,793.4	1,818.1	1,802.2	3.8	4.4	-138.73	34.5	68.8	97.1	89.3	7.76	12.507		
1,800.0	1,793.9	1,818.5	1,802.7	3.8	4.4	-138.70	34.5	68.9	97.1	89.3	7.76	12.502		
1,900.0	1,893.1	1,917.9	1,899.8	4.0	4.8	-132.13	32.3	89.7	97.7	89.2	8.47	11.542		
2,000.0	1,992.4	2,017.2	1,996.9	4.3	5.1	-125.73	30.1	110.6	99.6	90.5	9.17	10.862		
2,100.0	2,091.7	2,116.6	2,094.0	4.6	5.5	-119.64	27.9	131.5	102.8	92.9	9.87	10.414		
2,200.0	2,190.9	2,216.0	2,191.2	4.8	5.9	-113.97	25.6	152.4	107.0	96.5	10.54	10.151		
2,300.0	2,290.2	2,315.3	2,288.3	5.1	6.3	-108.77	23.4	173.3	112.2	101.0	11.18	10.033		
2,400.0	2,389.5	2,414.7	2,385.4	5.4	6.7	-104.06	21.2	194.1	118.3	106.5	11.79	10.027 SF		
2,500.0	2,488.7	2,514.1	2,482.5	5.6	7.1	-99.83	19.0	215.0	125.0	112.6	12.38	10.103		
2,600.0	2,588.0	2,613.4	2,579.6	5.9	7.5	-96.05	16.8	235.9	132.4	119.5	12.93	10.239		
2,700.0	2,687.3	2,712.8	2,676.8	6.2	7.9	-92.68	14.6	256.8	140.3	126.8	13.47	10.419		
2,800.0	2,786.6	2,812.2	2,773.9	6.5	8.3	-89.68	12.3	277.7	148.6	134.6	13.98	10.629		
2,900.0	2,885.8	2,911.5	2,871.0	6.7	8.7	-87.00	10.1	298.5	157.3	142.8	14.49	10.859		
3,000.0	2,985.1	3,010.9	2,968.1	7.0	9.1	-84.60	7.9	319.4	166.3	151.3	14.98	11.102		
3,100.0	3,084.4	3,110.2	3,065.2	7.3	9.5	-82.45	5.7	340.3	175.6	160.1	15.47	11.352		
3,200.0	3,183.6	3,209.6	3,162.4	7.5	9.9	-80.52	3.5	361.2	185.1	169.1	15.95	11.606		
3,300.0	3,282.9	3,309.0	3,259.5	7.8	10.3	-78.78	1.3	382.1	194.7	178.3	16.42	11.860		
3,400.0	3,382.2	3,408.3	3,356.6	8.1	10.7	-77.21	-1.0	402.9	204.6	187.7	16.89	12.111		
3,500.0	3,481.4	3,507.7	3,453.7	8.4	11.1	-75.77	-3.2	423.8	214.5	197.2	17.36	12.358		
3,600.0	3,580.7	3,607.1	3,550.8	8.6	11.6	-74.47	-5.4	444.7	224.6	206.8	17.83	12.601		
3,700.0	3,680.0	3,706.4	3,648.0	8.9	12.0	-73.28	-7.6	465.6	234.8	216.5	18.29	12.838		
3,800.0	3,779.2	3,805.8	3,745.1	9.2	12.4	-72.19	-9.8	486.5	245.1	226.4	18.76	13.069		
3,900.0	3,878.5	3,905.2	3,842.2	9.4	12.8	-71.18	-12.0	507.4	255.5	236.3	19.22	13.293		
4,000.0	3,977.8	4,004.5	3,939.3	9.7	13.2	-70.26	-14.3	528.2	265.9	246.2	19.68	13.511		
4,100.0	4,077.0	4,103.9	4,036.5	10.0	13.6	-69.40	-16.5	549.1	276.4	256.3	20.15	13.722		
4,200.0	4,176.3	4,203.3	4,133.6	10.3	14.0	-68.61	-18.7	570.0	287.0	266.4	20.61	13.927		
4,300.0	4,275.6	4,302.6	4,230.7	10.5	14.4	-67.88	-20.9	590.9	297.6	276.5	21.07	14.125		
4,400.0	4,374.8	4,402.0	4,327.8	10.8	14.8	-67.19	-23.1	611.8	308.3	286.7	21.53	14.316		
4,500.0	4,474.1	4,501.4	4,424.9	11.1	15.2	-66.55	-25.3	632.6	319.0	297.0	22.00	14.501		
4,600.0	4,573.4	4,600.7	4,522.1	11.4	15.6	-65.95	-27.6	653.5	329.7	307.2	22.46	14.680		
4,700.0	4,672.6	4,700.1	4,619.2	11.6	16.0	-65.39	-29.8	674.4	340.5	317.6	22.92	14.854		
4,800.0	4,771.9	4,799.5	4,716.3	11.9	16.5	-64.87	-32.0	695.3	351.3	327.9	23.39	15.021		

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 4R-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 4R-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 4I-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							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
4,900.0	4,871.2	4,898.8	4,813.4	12.2	16.9	-64.37	-34.2	716.2	362.1	338.3	23.85	15.183		
5,000.0	4,970.5	4,998.2	4,910.5	12.4	17.3	-63.91	-36.4	737.0	373.0	348.6	24.31	15.340		
5,100.0	5,069.7	5,097.5	5,007.7	12.7	17.7	-63.47	-38.6	757.9	383.8	359.1	24.78	15.492		
5,200.0	5,169.0	5,196.9	5,104.8	13.0	18.1	-63.05	-40.9	778.8	394.7	369.5	25.24	15.638		
5,300.0	5,268.3	5,296.3	5,201.9	13.3	18.5	-62.66	-43.1	799.7	405.6	379.9	25.71	15.780		
5,400.0	5,367.5	5,395.6	5,299.0	13.5	18.9	-62.28	-45.3	820.6	416.6	390.4	26.17	15.918		
5,500.0	5,466.8	5,495.0	5,396.1	13.8	19.3	-61.93	-47.5	841.4	427.5	400.9	26.63	16.051		
5,600.0	5,566.1	5,594.4	5,493.3	14.1	19.7	-61.60	-49.7	862.3	438.5	411.4	27.10	16.180		
5,700.0	5,665.3	5,693.7	5,590.4	14.4	20.2	-61.28	-51.9	883.2	449.5	421.9	27.57	16.306		
5,800.0	5,764.6	5,793.1	5,687.5	14.6	20.6	-60.97	-54.2	904.1	460.5	432.4	28.03	16.427		
5,900.0	5,863.9	5,892.5	5,784.6	14.9	21.0	-60.68	-56.4	925.0	471.5	443.0	28.50	16.545		
6,000.0	5,963.1	5,991.8	5,881.8	15.2	21.4	-60.41	-58.6	945.8	482.5	453.5	28.96	16.659		
6,100.0	6,062.4	6,091.2	5,978.9	15.5	21.8	-60.14	-60.8	966.7	493.5	464.1	29.43	16.770		
6,200.0	6,161.7	6,190.6	6,076.0	15.7	22.2	-59.89	-63.0	987.6	504.5	474.7	29.90	16.877		
6,300.0	6,260.9	6,289.9	6,173.1	16.0	22.6	-59.65	-65.2	1,008.5	515.6	485.2	30.36	16.982		
6,400.0	6,360.2	6,389.3	6,270.2	16.3	23.0	-59.42	-67.5	1,029.4	526.6	495.8	30.83	17.083		
6,500.0	6,459.5	6,488.7	6,367.4	16.6	23.4	-59.19	-69.7	1,050.2	537.7	506.4	31.30	17.182		
6,600.0	6,558.7	6,588.0	6,464.5	16.8	23.9	-58.98	-71.9	1,071.1	548.8	517.0	31.76	17.278		
6,700.0	6,658.0	6,687.4	6,561.6	17.1	24.3	-58.77	-74.1	1,092.0	559.9	527.6	32.23	17.371		
6,787.9	6,745.2	6,774.7	6,646.9	17.3	24.6	-58.60	-76.1	1,110.3	569.6	537.0	32.64	17.451		
6,800.0	6,757.3	6,786.8	6,658.7	17.4	24.7	-51.23	-76.3	1,112.9	570.9	538.2	32.69	17.463		
6,850.0	6,807.0	6,836.5	6,707.3	17.5	24.9	-14.84	-77.4	1,123.3	575.2	542.4	32.81	17.529		
6,900.0	6,856.6	6,886.0	6,755.7	17.6	25.1	13.70	-78.5	1,133.7	577.8	545.0	32.81	17.614		
6,950.0	6,905.9	6,935.1	6,803.7	17.6	25.3	29.57	-79.6	1,144.1	578.9	546.2	32.67	17.722		
7,000.0	6,954.6	6,983.6	6,851.1	17.7	25.5	38.99	-80.7	1,154.2	578.5	546.1	32.39	17.861		
7,050.0	7,002.5	7,031.1	6,897.6	17.7	25.7	45.52	-81.8	1,164.2	576.9	545.0	31.98	18.040		
7,100.0	7,049.3	7,077.6	6,943.0	17.7	25.9	50.67	-82.8	1,174.0	574.3	542.9	31.44	18.271		
7,150.0	7,094.9	7,122.7	6,987.1	17.7	26.1	55.12	-83.8	1,183.5	571.1	540.3	30.76	18.563		
7,200.0	7,139.0	7,166.7	7,030.1	17.8	26.3	59.23	-84.8	1,192.7	567.4	537.5	29.98	18.924		
7,250.0	7,181.4	7,219.1	7,081.2	17.7	26.5	63.88	-88.0	1,203.7	563.5	534.3	29.14	19.335		
7,300.0	7,221.8	7,263.4	7,124.2	17.7	26.7	68.26	-93.7	1,213.0	559.6	531.5	28.19	19.855		
7,350.0	7,260.1	7,300.0	7,159.3	17.8	26.8	72.14	-100.4	1,220.6	557.1	529.8	27.25	20.447		
7,382.2	7,283.6	7,319.6	7,178.0	17.8	26.9	74.28	-104.8	1,224.6	556.6	529.8	26.72	20.831		
7,400.0	7,296.2	7,329.3	7,187.2	17.8	26.9	75.33	-107.2	1,226.6	556.7	530.3	26.46	21.037		
7,450.0	7,329.7	7,352.2	7,208.8	17.8	27.0	77.73	-113.2	1,231.3	559.3	533.3	25.97	21.538		
7,500.0	7,360.6	7,369.5	7,224.9	17.9	27.1	79.32	-118.2	1,234.8	565.3	539.5	25.87	21.857		
7,550.0	7,388.8	7,381.9	7,236.5	17.9	27.2	80.10	-122.1	1,237.3	575.0	548.8	26.19	21.954		
7,600.0	7,414.0	7,390.2	7,244.1	18.0	27.2	80.10	-124.8	1,239.0	588.4	561.5	26.93	21.852		
7,650.0	7,436.1	7,400.0	7,253.1	18.2	27.3	79.88	-128.1	1,240.9	605.5	577.4	28.06	21.580		
7,700.0	7,455.1	7,400.0	7,253.1	18.4	27.3	78.30	-128.1	1,240.9	625.7	596.4	29.34	21.325		
7,750.0	7,470.8	7,400.0	7,253.1	18.6	27.3	76.36	-128.1	1,240.9	649.0	618.2	30.79	21.074		
7,800.0	7,483.2	7,400.0	7,253.1	18.8	27.3	74.09	-128.1	1,240.9	674.7	642.4	32.33	20.871		
7,850.0	7,492.3	7,387.6	7,241.7	19.1	27.2	70.33	-124.0	1,238.5	702.5	668.8	33.69	20.848		
7,900.0	7,497.9	7,380.9	7,235.5	19.4	27.2	66.92	-121.8	1,237.1	731.9	696.8	35.12	20.840		
7,950.0	7,500.0	7,372.7	7,227.9	19.7	27.1	63.26	-119.2	1,235.5	762.6	726.1	36.47	20.908		
7,955.7	7,500.0	7,371.7	7,227.0	19.7	27.1	62.83	-118.9	1,235.3	766.1	729.5	36.62	20.920		
8,000.0	7,500.0	7,364.0	7,219.8	20.1	27.1	62.16	-116.6	1,233.7	794.5	756.8	37.74	21.053		
8,100.0	7,500.0	7,350.0	7,206.7	20.9	27.0	60.93	-112.6	1,230.9	863.1	823.1	39.99	21.581		
8,200.0	7,500.0	7,335.0	7,192.5	21.8	27.0	59.62	-108.6	1,227.8	937.0	895.1	41.83	22.398		

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 4R-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 4R-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 4J-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	0.0	0.0	0.0	0.0	-89.78	0.3	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.78	0.3	-80.0	80.0	79.7	0.30	269.693		
200.0	200.0	200.0	200.0	0.3	0.3	-89.78	0.3	-80.0	80.0	79.4	0.65	123.913		
300.0	300.0	300.0	300.0	0.5	0.5	-89.78	0.3	-80.0	80.0	79.0	0.99	80.435 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.78	0.3	-80.0	80.0	79.0	0.99	80.433		
400.0	400.0	399.9	399.9	0.7	0.7	-88.53	2.1	-80.0	80.0	78.7	1.35	59.444		
500.0	500.0	499.7	499.5	0.8	0.9	-84.81	7.3	-80.0	80.3	78.6	1.71	46.944 ES		
600.0	600.0	598.8	598.3	1.0	1.1	161.76	15.9	-80.0	82.4	80.3	2.10	39.247		
700.0	700.0	701.2	700.1	1.2	1.3	169.15	26.0	-78.3	86.0	83.5	2.50	34.367		
800.0	799.9	803.7	802.1	1.4	1.5	176.21	34.9	-73.2	88.9	86.0	2.91	30.600		
900.0	899.7	906.3	904.0	1.6	1.8	-176.83	42.6	-64.6	91.4	88.1	3.32	27.511		
1,000.0	999.4	1,008.8	1,005.6	1.8	2.0	-169.75	49.0	-52.5	93.4	89.7	3.76	24.866		
1,100.0	1,098.9	1,111.2	1,106.7	2.0	2.3	-162.42	54.2	-37.1	95.2	91.0	4.22	22.541		
1,193.5	1,191.9	1,206.7	1,200.5	2.2	2.6	-155.22	57.9	-19.6	97.0	92.3	4.71	20.605		
1,200.0	1,198.3	1,213.3	1,207.0	2.2	2.7	-154.71	58.1	-18.3	97.1	92.4	4.74	20.475		
1,300.0	1,297.5	1,315.0	1,306.2	2.5	3.0	-146.31	60.8	3.8	98.6	93.3	5.33	18.514		
1,400.0	1,396.8	1,416.0	1,404.0	2.7	3.4	-136.81	62.2	28.9	99.9	93.9	5.98	16.713		
1,500.0	1,496.1	1,514.4	1,498.9	3.0	3.9	-127.21	63.0	55.0	103.0	96.4	6.65	15.494		
1,600.0	1,595.3	1,612.9	1,593.9	3.2	4.3	-118.38	63.8	81.0	108.9	101.6	7.30	14.915		
1,700.0	1,694.6	1,711.3	1,688.8	3.5	4.8	-110.59	64.6	107.1	117.1	109.2	7.92	14.793 SF		
1,800.0	1,793.9	1,809.8	1,783.8	3.8	5.2	-103.91	65.5	133.1	127.2	118.7	8.49	14.979		
1,900.0	1,893.1	1,908.2	1,878.7	4.0	5.7	-98.26	66.3	159.2	138.8	129.8	9.04	15.360		
2,000.0	1,992.4	2,006.7	1,973.6	4.3	6.2	-93.50	67.1	185.2	151.5	142.0	9.55	15.859		
2,100.0	2,091.7	2,105.1	2,068.6	4.6	6.7	-89.50	67.9	211.3	165.1	155.1	10.06	16.421		
2,200.0	2,190.9	2,203.6	2,163.5	4.8	7.1	-86.11	68.7	237.3	179.4	168.9	10.55	17.013		
2,300.0	2,290.2	2,302.0	2,258.5	5.1	7.6	-83.23	69.5	263.4	194.2	183.2	11.03	17.614		
2,400.0	2,389.5	2,400.5	2,353.4	5.4	8.1	-80.75	70.3	289.4	209.5	198.0	11.50	18.208		
2,500.0	2,488.7	2,499.0	2,448.4	5.6	8.6	-78.61	71.1	315.4	225.0	213.0	11.98	18.787		
2,600.0	2,588.0	2,597.4	2,543.3	5.9	9.1	-76.75	71.9	341.5	240.9	228.4	12.45	19.346		
2,700.0	2,687.3	2,695.9	2,638.3	6.2	9.6	-75.12	72.7	367.5	256.9	244.0	12.92	19.883		
2,800.0	2,786.6	2,794.3	2,733.2	6.5	10.1	-73.68	73.5	393.6	273.1	259.7	13.39	20.397		
2,900.0	2,885.8	2,892.8	2,828.1	6.7	10.6	-72.41	74.4	419.6	289.5	275.7	13.86	20.887		
3,000.0	2,985.1	2,991.2	2,923.1	7.0	11.1	-71.27	75.2	445.7	306.0	291.7	14.33	21.353		
3,100.0	3,084.4	3,089.7	3,018.0	7.3	11.6	-70.24	76.0	471.7	322.6	307.8	14.80	21.796		
3,200.0	3,183.6	3,188.1	3,113.0	7.5	12.1	-69.32	76.8	497.8	339.3	324.1	15.27	22.218		
3,300.0	3,282.9	3,286.6	3,207.9	7.8	12.6	-68.48	77.6	523.8	356.1	340.4	15.74	22.619		
3,400.0	3,382.2	3,385.0	3,302.9	8.1	13.0	-67.72	78.4	549.9	373.0	356.7	16.22	23.000		
3,500.0	3,481.4	3,483.5	3,397.8	8.4	13.5	-67.02	79.2	575.9	389.9	373.2	16.69	23.362		
3,600.0	3,580.7	3,582.0	3,492.7	8.6	14.0	-66.39	80.0	602.0	406.8	389.7	17.16	23.707		
3,700.0	3,680.0	3,680.4	3,587.7	8.9	14.5	-65.80	80.8	628.0	423.8	406.2	17.63	24.036		
3,800.0	3,779.2	3,778.9	3,682.6	9.2	15.0	-65.26	81.6	654.1	440.9	422.8	18.11	24.349		
3,900.0	3,878.5	3,877.3	3,777.6	9.4	15.5	-64.76	82.4	680.1	457.9	439.4	18.58	24.647		
4,000.0	3,977.8	3,975.8	3,872.5	9.7	16.0	-64.29	83.3	706.2	475.0	456.0	19.05	24.932		
4,100.0	4,077.0	4,074.2	3,967.5	10.0	16.5	-63.86	84.1	732.2	492.2	472.7	19.53	25.204		
4,200.0	4,176.3	4,172.7	4,062.4	10.3	17.0	-63.45	84.9	758.3	509.3	489.3	20.00	25.464		
4,300.0	4,275.6	4,271.1	4,157.3	10.5	17.5	-63.08	85.7	784.3	526.5	506.1	20.48	25.713		
4,400.0	4,374.8	4,369.6	4,252.3	10.8	18.0	-62.72	86.5	810.4	543.7	522.8	20.95	25.951		
4,500.0	4,474.1	4,468.0	4,347.2	11.1	18.5	-62.39	87.3	836.4	561.0	539.5	21.43	26.180		
4,600.0	4,573.4	4,566.5	4,442.2	11.4	19.0	-62.08	88.1	862.5	578.2	556.3	21.90	26.398		
4,700.0	4,672.6	4,665.0	4,537.1	11.6	19.5	-61.78	88.9	888.5	595.5	573.1	22.38	26.608		
4,800.0	4,771.9	4,763.4	4,632.1	11.9	20.0	-61.51	89.7	914.6	612.7	589.9	22.85	26.810		
4,900.0	4,871.2	4,861.9	4,727.0	12.2	20.5	-61.24	90.5	940.6	630.0	606.7	23.33	27.003		

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 4R-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 4R-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 4J-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							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	4,970.5	4,960.3	4,821.9	12.4	21.0	-61.00	91.3	966.7	647.3	623.5	23.81	27.190		
5,100.0	5,069.7	5,058.8	4,916.9	12.7	21.5	-60.76	92.2	992.7	664.6	640.3	24.28	27.369		
5,200.0	5,169.0	5,157.2	5,011.8	13.0	22.0	-60.54	93.0	1,018.8	681.9	657.2	24.76	27.541		
5,300.0	5,268.3	5,255.7	5,106.8	13.3	22.5	-60.32	93.8	1,044.8	699.3	674.0	25.24	27.708		
5,400.0	5,367.5	5,354.1	5,201.7	13.5	23.0	-60.12	94.6	1,070.9	716.6	690.9	25.71	27.868		
5,500.0	5,466.8	5,452.6	5,296.7	13.8	23.5	-59.93	95.4	1,096.9	734.0	707.8	26.19	28.022		
5,600.0	5,566.1	5,551.1	5,391.6	14.1	24.0	-59.75	96.2	1,123.0	751.3	724.6	26.67	28.171		
5,700.0	5,665.3	5,649.5	5,486.5	14.4	24.5	-59.57	97.0	1,149.0	768.7	741.5	27.15	28.315		
5,800.0	5,764.6	5,748.0	5,581.5	14.6	25.0	-59.40	97.8	1,175.1	786.0	758.4	27.62	28.455		
5,900.0	5,863.9	5,846.4	5,676.4	14.9	25.5	-59.24	98.6	1,201.1	803.4	775.3	28.10	28.589		
6,000.0	5,963.1	5,944.9	5,771.4	15.2	26.0	-59.09	99.4	1,227.2	820.8	792.2	28.58	28.719		
6,100.0	6,062.4	6,043.3	5,866.3	15.5	26.5	-58.94	100.2	1,253.2	838.2	809.1	29.06	28.845		
6,200.0	6,161.7	6,141.8	5,961.3	15.7	27.0	-58.80	101.1	1,279.3	855.6	826.0	29.54	28.967		
6,300.0	6,260.9	6,240.2	6,056.2	16.0	27.5	-58.66	101.9	1,305.3	873.0	843.0	30.01	29.085		
6,400.0	6,360.2	6,338.7	6,151.1	16.3	28.0	-58.53	102.7	1,331.3	890.4	859.9	30.49	29.200		
6,500.0	6,459.5	6,437.1	6,246.1	16.6	28.5	-58.41	103.5	1,357.4	907.8	876.8	30.97	29.311		
6,600.0	6,558.7	6,535.6	6,341.0	16.8	29.0	-58.29	104.3	1,383.4	925.2	893.7	31.45	29.419		
6,700.0	6,658.0	6,634.1	6,436.0	17.1	29.5	-58.17	105.1	1,409.5	942.6	910.7	31.93	29.523		
6,787.9	6,745.2	6,720.6	6,519.4	17.3	29.9	-58.07	105.8	1,432.4	957.9	925.5	32.35	29.613		
6,800.0	6,757.3	6,732.5	6,530.9	17.4	30.0	-50.77	105.9	1,435.5	960.0	927.6	32.40	29.627		
6,850.0	6,807.0	6,781.8	6,578.5	17.5	30.3	-14.74	106.3	1,448.6	967.4	934.9	32.55	29.726		
6,900.0	6,856.6	6,831.1	6,626.0	17.6	30.5	13.32	106.7	1,461.6	973.3	940.7	32.58	29.869		
6,950.0	6,905.9	6,880.1	6,673.2	17.6	30.8	28.61	107.1	1,474.6	977.5	944.9	32.52	30.060		
7,000.0	6,954.6	6,928.5	6,719.9	17.7	31.0	37.34	107.5	1,487.4	980.1	947.7	32.34	30.303		
7,050.0	7,002.5	7,027.6	6,815.3	17.7	31.5	44.31	103.2	1,513.6	980.4	948.1	32.26	30.391		
7,100.0	7,049.3	7,129.6	6,911.9	17.7	32.0	50.94	84.7	1,540.1	976.6	944.8	31.84	30.669		
7,150.0	7,094.9	7,210.1	6,985.9	17.7	32.3	56.87	60.1	1,560.4	970.4	939.2	31.15	31.151		
7,200.0	7,139.0	7,270.9	7,039.6	17.8	32.6	61.95	35.9	1,575.1	963.0	932.6	30.34	31.743		
7,250.0	7,181.4	7,315.3	7,077.5	17.7	32.8	66.10	15.3	1,585.5	955.7	926.2	29.45	32.450		
7,300.0	7,221.8	7,346.7	7,103.6	17.7	33.0	69.34	-0.7	1,592.7	949.2	920.6	28.58	33.212		
7,350.0	7,260.1	7,368.0	7,120.9	17.8	33.0	71.75	-12.2	1,597.4	944.3	916.5	27.80	33.968		
7,400.0	7,296.2	7,381.5	7,131.6	17.8	33.1	73.43	-19.8	1,600.4	941.1	914.0	27.11	34.719		
7,449.8	7,329.6	7,388.8	7,137.4	17.8	33.1	74.48	-24.0	1,602.0	940.1	913.5	26.56	35.399		
7,450.0	7,329.7	7,388.9	7,137.5	17.8	33.1	74.48	-24.0	1,602.0	940.1	913.5	26.55	35.402		
7,500.0	7,360.6	7,391.5	7,139.5	17.9	33.1	74.97	-25.5	1,602.5	941.2	915.0	26.18	35.954		
7,550.0	7,388.8	7,390.2	7,138.5	17.9	33.1	74.98	-24.8	1,602.3	944.5	918.5	26.01	36.310		
7,600.0	7,414.0	7,385.9	7,135.2	18.0	33.1	74.58	-22.4	1,601.3	949.9	923.8	26.08	36.419		
7,650.0	7,436.1	7,379.2	7,129.8	18.2	33.1	73.80	-18.5	1,599.8	957.4	931.0	26.40	36.261		
7,700.0	7,455.1	7,370.3	7,122.7	18.4	33.1	72.72	-13.5	1,597.9	966.7	939.7	26.96	35.854		
7,750.0	7,470.8	7,359.8	7,114.3	18.6	33.0	71.36	-7.7	1,595.6	977.8	950.0	27.74	35.245		
7,800.0	7,483.2	7,350.0	7,106.3	18.8	33.0	69.90	-2.5	1,593.4	990.4	961.6	28.73	34.465		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4K-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.79	0.3	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.79	0.3	-69.9	69.9	69.7	0.30	235.746		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.3	-69.9	69.9	69.3	0.65	108.316 CC		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.3	-69.9	69.9	69.3	0.65	108.293		
300.0	300.0	300.0	299.9	0.5	0.5	-88.36	2.0	-69.9	70.0	69.0	1.00	70.083		
400.0	400.0	399.7	399.5	0.7	0.7	-84.11	7.2	-69.9	70.3	69.0	1.37	51.427 ES		
500.0	500.0	498.9	498.3	0.8	0.9	-77.25	15.8	-69.9	71.7	70.0	1.76	40.711		
600.0	600.0	600.9	599.8	1.0	1.2	171.25	25.9	-68.3	73.9	71.7	2.17	34.108		
700.0	700.0	703.0	701.4	1.2	1.4	179.30	34.9	-63.1	75.6	73.1	2.57	29.385		
800.0	799.9	805.1	802.8	1.4	1.6	-172.50	42.6	-54.6	77.1	74.1	2.99	25.773		
900.0	899.7	906.9	903.8	1.6	1.9	-163.95	49.2	-42.6	78.5	75.1	3.43	22.900		
1,000.0	999.4	1,008.6	1,004.1	1.8	2.2	-154.95	54.6	-27.3	80.2	76.3	3.90	20.583		
1,100.0	1,098.9	1,109.9	1,103.6	2.0	2.5	-145.51	58.7	-8.6	82.6	78.2	4.41	18.735		
1,193.5	1,191.9	1,204.2	1,195.7	2.2	2.9	-136.39	61.5	11.7	86.0	81.1	4.94	17.403		
1,200.0	1,198.3	1,210.7	1,202.0	2.2	2.9	-135.75	61.7	13.2	86.3	81.3	4.98	17.320		
1,300.0	1,297.5	1,310.9	1,299.0	2.5	3.3	-125.52	63.5	38.1	91.1	85.5	5.60	16.264		
1,400.0	1,396.8	1,410.0	1,394.1	2.7	3.8	-114.80	64.1	65.8	97.5	91.3	6.22	15.680 SF		
1,500.0	1,496.1	1,508.1	1,488.1	3.0	4.3	-105.29	64.5	93.9	106.9	100.1	6.79	15.741		
1,600.0	1,595.3	1,606.1	1,582.0	3.2	4.8	-97.44	64.9	122.1	118.7	111.4	7.32	16.228		
1,700.0	1,694.6	1,704.2	1,676.0	3.5	5.3	-91.08	65.2	150.3	132.4	124.6	7.81	16.952		
1,800.0	1,793.9	1,802.3	1,769.9	3.8	5.8	-85.95	65.6	178.4	147.4	139.1	8.28	17.792		
1,900.0	1,893.1	1,900.4	1,863.9	4.0	6.3	-81.77	65.9	206.6	163.3	154.6	8.75	18.674		
2,000.0	1,992.4	1,998.5	1,957.8	4.3	6.8	-78.35	66.3	234.7	180.0	170.8	9.20	19.557		
2,100.0	2,091.7	2,096.5	2,051.8	4.6	7.3	-75.51	66.7	262.9	197.2	187.5	9.66	20.418		
2,200.0	2,190.9	2,194.6	2,145.7	4.8	7.8	-73.12	67.0	291.0	214.7	204.6	10.11	21.243		
2,300.0	2,290.2	2,292.7	2,239.7	5.1	8.4	-71.10	67.4	319.2	232.6	222.1	10.56	22.027		
2,400.0	2,389.5	2,390.8	2,333.6	5.4	8.9	-69.36	67.8	347.4	250.7	239.7	11.01	22.768		
2,500.0	2,488.7	2,488.9	2,427.6	5.6	9.4	-67.86	68.1	375.5	269.1	257.6	11.47	23.467		
2,600.0	2,588.0	2,586.9	2,521.5	5.9	9.9	-66.55	68.5	403.7	287.5	275.6	11.92	24.123		
2,700.0	2,687.3	2,685.0	2,615.5	6.2	10.5	-65.40	68.8	431.8	306.1	293.8	12.37	24.740		
2,800.0	2,786.6	2,783.1	2,709.4	6.5	11.0	-64.38	69.2	460.0	324.8	312.0	12.83	25.320		
2,900.0	2,885.8	2,881.2	2,803.4	6.7	11.5	-63.47	69.6	488.1	343.6	330.3	13.29	25.865		
3,000.0	2,985.1	2,979.3	2,897.3	7.0	12.1	-62.65	69.9	516.3	362.5	348.8	13.74	26.378		
3,100.0	3,084.4	3,077.3	2,991.3	7.3	12.6	-61.92	70.3	544.5	381.4	367.2	14.20	26.861		
3,200.0	3,183.6	3,175.4	3,085.2	7.5	13.1	-61.25	70.6	572.6	400.4	385.8	14.66	27.317		
3,300.0	3,282.9	3,273.5	3,179.2	7.8	13.7	-60.65	71.0	600.8	419.5	404.3	15.12	27.747		
3,400.0	3,382.2	3,371.6	3,273.1	8.1	14.2	-60.10	71.4	628.9	438.5	423.0	15.58	28.153		
3,500.0	3,481.4	3,469.7	3,367.1	8.4	14.7	-59.59	71.7	657.1	457.6	441.6	16.04	28.537		
3,600.0	3,580.7	3,567.7	3,461.0	8.6	15.3	-59.13	72.1	685.2	476.8	460.3	16.50	28.901		
3,700.0	3,680.0	3,665.8	3,555.0	8.9	15.8	-58.70	72.5	713.4	496.0	479.0	16.96	29.246		
3,800.0	3,779.2	3,763.9	3,648.9	9.2	16.4	-58.30	72.8	741.6	515.2	497.7	17.42	29.574		
3,900.0	3,878.5	3,862.0	3,742.9	9.4	16.9	-57.93	73.2	769.7	534.4	516.5	17.88	29.885		
4,000.0	3,977.8	3,960.1	3,836.8	9.7	17.4	-57.59	73.5	797.9	553.6	535.3	18.34	30.182		
4,100.0	4,077.0	4,058.1	3,930.8	10.0	18.0	-57.26	73.9	826.0	572.9	554.1	18.81	30.464		
4,200.0	4,176.3	4,156.2	4,024.7	10.3	18.5	-56.97	74.3	854.2	592.1	572.9	19.27	30.733		
4,300.0	4,275.6	4,254.3	4,118.7	10.5	19.0	-56.68	74.6	882.3	611.4	591.7	19.73	30.990		
4,400.0	4,374.8	4,352.4	4,212.6	10.8	19.6	-56.42	75.0	910.5	630.7	610.5	20.19	31.235		
4,500.0	4,474.1	4,450.5	4,306.6	11.1	20.1	-56.17	75.4	938.7	650.0	629.4	20.66	31.470		
4,600.0	4,573.4	4,548.5	4,400.5	11.4	20.6	-55.94	75.7	966.8	669.4	648.3	21.12	31.694		
4,700.0	4,672.6	4,646.6	4,494.5	11.6	21.2	-55.72	76.1	995.0	688.7	667.1	21.58	31.909		
4,800.0	4,771.9	4,744.7	4,588.4	11.9	21.7	-55.51	76.4	1,023.1	708.1	686.0	22.05	32.115		
4,900.0	4,871.2	4,842.8	4,682.4	12.2	22.3	-55.31	76.8	1,051.3	727.4	704.9	22.51	32.313		

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 4R-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 4R-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 4K-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	4,970.5	4,940.8	4,776.3	12.4	22.8	-55.13	77.2	1,079.4	746.8	723.8	22.98	32.503			
5,100.0	5,069.7	5,038.9	4,870.3	12.7	23.3	-54.95	77.5	1,107.6	766.1	742.7	23.44	32.686			
5,200.0	5,169.0	5,137.0	4,964.2	13.0	23.9	-54.78	77.9	1,135.8	785.5	761.6	23.90	32.861			
5,300.0	5,268.3	5,235.1	5,058.2	13.3	24.4	-54.62	78.2	1,163.9	804.9	780.5	24.37	33.030			
5,400.0	5,367.5	5,333.2	5,152.1	13.5	24.9	-54.46	78.6	1,192.1	824.3	799.4	24.83	33.193			
5,500.0	5,466.8	5,431.2	5,246.1	13.8	25.5	-54.32	79.0	1,220.2	843.7	818.4	25.30	33.350			
5,600.0	5,566.1	5,529.3	5,340.0	14.1	26.0	-54.18	79.3	1,248.4	863.1	837.3	25.76	33.501			
5,700.0	5,665.3	5,627.4	5,434.0	14.4	26.6	-54.05	79.7	1,276.5	882.5	856.2	26.23	33.647			
5,800.0	5,764.6	5,725.5	5,527.9	14.6	27.1	-53.92	80.1	1,304.7	901.9	875.2	26.69	33.788			
5,900.0	5,863.9	5,823.6	5,621.9	14.9	27.6	-53.80	80.4	1,332.9	921.3	894.1	27.16	33.924			
6,000.0	5,963.1	5,921.6	5,715.8	15.2	28.2	-53.68	80.8	1,361.0	940.7	913.1	27.62	34.056			
6,100.0	6,062.4	6,019.7	5,809.8	15.5	28.7	-53.57	81.1	1,389.2	960.1	932.0	28.09	34.183			
6,200.0	6,161.7	6,117.8	5,903.7	15.7	29.3	-53.46	81.5	1,417.3	979.5	951.0	28.55	34.306			
6,300.0	6,260.9	6,215.9	5,997.7	16.0	29.8	-53.35	81.9	1,445.5	999.0	969.9	29.02	34.425			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4L-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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-89.60	0.4	-59.9	59.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.60	0.4	-59.9	59.9	59.6	0.30	201.802		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-59.9	59.9	59.2	0.65	92.720		
300.0	300.0	300.0	300.0	0.5	0.5	-89.60	0.4	-59.9	59.9	58.9	0.99	60.187		
400.0	400.0	400.0	400.0	0.7	0.7	-89.60	0.4	-59.9	59.9	58.5	1.34	44.554		
500.0	500.0	500.0	500.0	0.8	0.8	-89.60	0.4	-59.9	59.9	58.2	1.69	35.367 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	151.15	0.4	-59.9	60.6	58.6	2.04	29.694		
700.0	700.0	700.0	700.0	1.2	1.2	152.29	0.4	-59.9	62.9	60.6	2.39	26.317		
800.0	799.9	799.4	799.4	1.4	1.4	153.88	0.3	-60.0	67.0	64.3	2.74	24.438		
900.0	899.7	898.3	898.3	1.6	1.5	155.02	-0.8	-61.4	73.8	70.7	3.09	23.861 SF		
1,000.0	999.4	996.9	996.8	1.8	1.7	155.62	-2.9	-64.0	83.4	79.9	3.44	24.211		
1,100.0	1,098.9	1,095.0	1,094.8	2.0	1.9	155.78	-6.1	-68.0	95.8	92.0	3.80	25.208		
1,193.5	1,191.9	1,186.3	1,185.9	2.2	2.1	155.65	-10.0	-72.8	109.9	105.8	4.14	26.560		
1,200.0	1,198.3	1,192.6	1,192.1	2.2	2.1	155.64	-10.3	-73.2	111.0	106.8	4.16	26.666		
1,300.0	1,297.5	1,289.7	1,288.9	2.5	2.3	155.19	-15.5	-79.6	128.1	123.5	4.53	28.269		
1,400.0	1,396.8	1,387.8	1,386.5	2.7	2.5	154.55	-21.5	-87.0	145.9	141.0	4.91	29.737		
1,500.0	1,496.1	1,486.1	1,484.4	3.0	2.7	154.03	-27.5	-94.4	163.9	158.6	5.29	30.974		
1,600.0	1,595.3	1,584.5	1,582.3	3.2	2.9	153.62	-33.4	-101.9	181.8	176.1	5.68	32.028		
1,700.0	1,694.6	1,682.9	1,680.2	3.5	3.1	153.29	-39.4	-109.3	199.7	193.7	6.06	32.937		
1,800.0	1,793.9	1,781.3	1,778.2	3.8	3.4	153.00	-45.4	-116.7	217.7	211.2	6.45	33.728		
1,900.0	1,893.1	1,879.6	1,876.1	4.0	3.6	152.77	-51.4	-124.1	235.6	228.7	6.84	34.421		
2,000.0	1,992.4	1,978.0	1,974.0	4.3	3.8	152.56	-57.4	-131.5	253.5	246.3	7.24	35.034		
2,100.0	2,091.7	2,076.4	2,071.9	4.6	4.0	152.38	-63.4	-139.0	271.5	263.9	7.63	35.578		
2,200.0	2,190.9	2,174.8	2,169.8	4.8	4.3	152.23	-69.3	-146.4	289.4	281.4	8.03	36.065		
2,300.0	2,290.2	2,273.1	2,267.7	5.1	4.5	152.09	-75.3	-153.8	307.4	299.0	8.42	36.504		
2,400.0	2,389.5	2,371.5	2,365.6	5.4	4.7	151.97	-81.3	-161.2	325.3	316.5	8.82	36.900		
2,500.0	2,488.7	2,469.9	2,463.5	5.6	5.0	151.86	-87.3	-168.6	343.3	334.1	9.21	37.259		
2,600.0	2,588.0	2,568.2	2,561.4	5.9	5.2	151.76	-93.3	-176.0	361.2	351.6	9.61	37.587		
2,700.0	2,687.3	2,666.6	2,659.3	6.2	5.4	151.67	-99.3	-183.5	379.2	369.2	10.01	37.888		
2,800.0	2,786.6	2,765.0	2,757.3	6.5	5.7	151.59	-105.2	-190.9	397.2	386.7	10.41	38.164		
2,900.0	2,885.8	2,863.4	2,855.2	6.7	5.9	151.51	-111.2	-198.3	415.1	404.3	10.81	38.418		
3,000.0	2,985.1	2,961.7	2,953.1	7.0	6.1	151.45	-117.2	-205.7	433.1	421.9	11.20	38.653		
3,100.0	3,084.4	3,060.1	3,051.0	7.3	6.4	151.38	-123.2	-213.1	451.0	439.4	11.60	38.871		
3,200.0	3,183.6	3,158.5	3,148.9	7.5	6.6	151.33	-129.2	-220.6	469.0	457.0	12.00	39.074		
3,300.0	3,282.9	3,256.9	3,246.8	7.8	6.9	151.27	-135.2	-228.0	486.9	474.5	12.40	39.263		
3,400.0	3,382.2	3,355.2	3,344.7	8.1	7.1	151.22	-141.1	-235.4	504.9	492.1	12.80	39.439		
3,500.0	3,481.4	3,453.6	3,442.6	8.4	7.3	151.18	-147.1	-242.8	522.9	509.7	13.20	39.605		
3,600.0	3,580.7	3,552.0	3,540.5	8.6	7.6	151.13	-153.1	-250.2	540.8	527.2	13.60	39.760		
3,700.0	3,680.0	3,650.3	3,638.4	8.9	7.8	151.09	-159.1	-257.7	558.8	544.8	14.00	39.905		
3,800.0	3,779.2	3,748.7	3,736.4	9.2	8.0	151.05	-165.1	-265.1	576.7	562.3	14.40	40.043		
3,900.0	3,878.5	3,847.1	3,834.3	9.4	8.3	151.02	-171.1	-272.5	594.7	579.9	14.80	40.172		
4,000.0	3,977.8	3,945.5	3,932.2	9.7	8.5	150.98	-177.0	-279.9	612.7	597.5	15.20	40.294		
4,100.0	4,077.0	4,043.8	4,030.1	10.0	8.7	150.95	-183.0	-287.3	630.6	615.0	15.61	40.410		
4,200.0	4,176.3	4,142.2	4,128.0	10.3	9.0	150.92	-189.0	-294.8	648.6	632.6	16.01	40.520		
4,300.0	4,275.6	4,240.6	4,225.9	10.5	9.2	150.89	-195.0	-302.2	666.6	650.1	16.41	40.624		
4,400.0	4,374.8	4,339.0	4,323.8	10.8	9.5	150.87	-201.0	-309.6	684.5	667.7	16.81	40.723		
4,500.0	4,474.1	4,437.3	4,421.7	11.1	9.7	150.84	-207.0	-317.0	702.5	685.3	17.21	40.817		
4,600.0	4,573.4	4,535.7	4,519.6	11.4	9.9	150.82	-213.0	-324.4	720.4	702.8	17.61	40.906		
4,700.0	4,672.6	4,634.1	4,617.6	11.6	10.2	150.79	-218.9	-331.8	738.4	720.4	18.01	40.992		
4,800.0	4,771.9	4,732.5	4,715.5	11.9	10.4	150.77	-224.9	-339.3	756.4	737.9	18.41	41.073		
4,900.0	4,871.2	4,830.8	4,813.4	12.2	10.6	150.75	-230.9	-346.7	774.3	755.5	18.82	41.151		
5,000.0	4,970.5	4,929.2	4,911.3	12.4	10.9	150.73	-236.9	-354.1	792.3	773.1	19.22	41.226		

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 4R-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 4R-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 4L-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									
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Total	Separation	Warning				
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis						
5,100.0	5,069.7	5,027.6	5,009.2	12.7	11.1	150.71	-242.9	-361.5	810.2	790.6	19.62	41.297					
5,200.0	5,169.0	5,125.9	5,107.1	13.0	11.4	150.69	-248.9	-368.9	828.2	808.2	20.02	41.365					
5,300.0	5,268.3	5,224.3	5,205.0	13.3	11.6	150.68	-254.8	-376.4	846.2	825.7	20.42	41.431					
5,400.0	5,367.5	5,322.7	5,302.9	13.5	11.8	150.66	-260.8	-383.8	864.1	843.3	20.83	41.494					
5,500.0	5,466.8	5,421.1	5,400.8	13.8	12.1	150.64	-266.8	-391.2	882.1	860.9	21.23	41.555					
5,600.0	5,566.1	5,519.4	5,498.7	14.1	12.3	150.63	-272.8	-398.6	900.1	878.4	21.63	41.613					
5,700.0	5,665.3	5,617.8	5,596.7	14.4	12.5	150.61	-278.8	-406.0	918.0	896.0	22.03	41.669					
5,800.0	5,764.6	5,716.2	5,694.6	14.6	12.8	150.60	-284.8	-413.5	936.0	913.6	22.43	41.723					
5,900.0	5,863.9	5,814.6	5,792.5	14.9	13.0	150.59	-290.7	-420.9	953.9	931.1	22.84	41.775					
6,000.0	5,963.1	5,912.9	5,890.4	15.2	13.3	150.57	-296.7	-428.3	971.9	948.7	23.24	41.825					
6,100.0	6,062.4	6,011.3	5,988.3	15.5	13.5	150.56	-302.7	-435.7	989.9	966.2	23.64	41.873					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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				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	-89.52	0.4	-50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.52	0.4	-50.1	50.1	49.8	0.30	168.799		
200.0	200.0	200.0	200.0	0.3	0.3	-89.52	0.4	-50.1	50.1	49.4	0.65	77.556		
300.0	300.0	300.0	300.0	0.5	0.5	-89.52	0.4	-50.1	50.1	49.1	0.99	50.344		
400.0	400.0	400.0	400.0	0.7	0.7	-89.52	0.4	-50.1	50.1	48.7	1.34	37.267		
500.0	500.0	500.0	500.0	0.8	0.8	-89.52	0.4	-50.1	50.1	48.4	1.69	29.583	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	151.31	0.4	-50.1	50.8	48.8	2.04	24.899		
700.0	700.0	700.0	700.0	1.2	1.2	152.65	0.4	-50.1	53.2	50.8	2.39	22.226		
800.0	799.9	799.9	799.9	1.4	1.4	154.65	0.4	-50.1	57.1	54.3	2.74	20.812		
900.0	899.7	899.0	899.0	1.6	1.5	156.37	-0.2	-50.7	63.2	60.1	3.09	20.422	SF	
1,000.0	999.4	998.0	997.9	1.8	1.7	157.18	-2.1	-52.4	71.9	68.4	3.44	20.871		
1,100.0	1,098.9	1,096.5	1,096.4	2.0	1.9	157.29	-5.2	-55.3	83.2	79.4	3.80	21.900		
1,193.5	1,191.9	1,188.3	1,188.0	2.2	2.1	156.96	-9.3	-59.0	96.2	92.1	4.14	23.235		
1,200.0	1,198.3	1,194.7	1,194.3	2.2	2.1	156.92	-9.6	-59.3	97.2	93.0	4.16	23.338		
1,300.0	1,297.5	1,292.5	1,291.9	2.5	2.3	156.16	-15.1	-64.4	112.8	108.3	4.53	24.877		
1,400.0	1,396.8	1,391.2	1,390.3	2.7	2.5	155.35	-21.2	-70.0	128.8	123.9	4.91	26.215		
1,500.0	1,496.1	1,489.9	1,488.6	3.0	2.7	154.73	-27.2	-75.5	144.8	139.5	5.30	27.346		
1,600.0	1,595.3	1,588.6	1,587.0	3.2	2.9	154.23	-33.3	-81.1	160.8	155.2	5.68	28.311		
1,700.0	1,694.6	1,687.3	1,685.3	3.5	3.1	153.82	-39.3	-86.7	176.9	170.8	6.07	29.143		
1,800.0	1,793.9	1,786.0	1,783.7	3.8	3.3	153.48	-45.3	-92.2	192.9	186.5	6.46	29.867		
1,900.0	1,893.1	1,884.7	1,882.1	4.0	3.5	153.19	-51.4	-97.8	209.0	202.1	6.85	30.501		
2,000.0	1,992.4	1,983.4	1,980.4	4.3	3.7	152.94	-57.4	-103.4	225.1	217.8	7.25	31.062		
2,100.0	2,091.7	2,082.1	2,078.8	4.6	3.9	152.72	-63.5	-108.9	241.1	233.5	7.64	31.560		
2,200.0	2,190.9	2,180.8	2,177.1	4.8	4.2	152.54	-69.5	-114.5	257.2	249.2	8.04	32.006		
2,300.0	2,290.2	2,279.5	2,275.5	5.1	4.4	152.37	-75.6	-120.1	273.3	264.8	8.43	32.407		
2,400.0	2,389.5	2,378.2	2,373.8	5.4	4.6	152.22	-81.6	-125.6	289.3	280.5	8.83	32.769		
2,500.0	2,488.7	2,476.9	2,472.2	5.6	4.8	152.09	-87.7	-131.2	305.4	296.2	9.23	33.098		
2,600.0	2,588.0	2,575.6	2,570.5	5.9	5.0	151.97	-93.7	-136.8	321.5	311.9	9.63	33.398		
2,700.0	2,687.3	2,674.3	2,668.9	6.2	5.2	151.86	-99.8	-142.4	337.6	327.5	10.02	33.672		
2,800.0	2,786.6	2,773.0	2,767.2	6.5	5.5	151.77	-105.8	-147.9	353.6	343.2	10.42	33.925		
2,900.0	2,885.8	2,871.7	2,865.6	6.7	5.7	151.68	-111.8	-153.5	369.7	358.9	10.82	34.157		
3,000.0	2,985.1	2,970.4	2,964.0	7.0	5.9	151.59	-117.9	-159.1	385.8	374.6	11.22	34.372		
3,100.0	3,084.4	3,069.1	3,062.3	7.3	6.1	151.52	-123.9	-164.6	401.9	390.2	11.62	34.571		
3,200.0	3,183.6	3,167.8	3,160.7	7.5	6.3	151.45	-130.0	-170.2	418.0	405.9	12.03	34.756		
3,300.0	3,282.9	3,266.5	3,259.0	7.8	6.6	151.39	-136.0	-175.8	434.0	421.6	12.43	34.929		
3,400.0	3,382.2	3,365.2	3,357.4	8.1	6.8	151.33	-142.1	-181.3	450.1	437.3	12.83	35.090		
3,500.0	3,481.4	3,463.9	3,455.7	8.4	7.0	151.27	-148.1	-186.9	466.2	453.0	13.23	35.241		
3,600.0	3,580.7	3,562.6	3,554.1	8.6	7.2	151.22	-154.2	-192.5	482.3	468.6	13.63	35.382		
3,700.0	3,680.0	3,661.3	3,652.4	8.9	7.5	151.17	-160.2	-198.0	498.4	484.3	14.03	35.515		
3,800.0	3,779.2	3,760.0	3,750.8	9.2	7.7	151.12	-166.3	-203.6	514.4	500.0	14.43	35.641		
3,900.0	3,878.5	3,858.7	3,849.1	9.4	7.9	151.08	-172.3	-209.2	530.5	515.7	14.84	35.759		
4,000.0	3,977.8	3,957.4	3,947.5	9.7	8.1	151.04	-178.3	-214.7	546.6	531.4	15.24	35.870		
4,100.0	4,077.0	4,056.1	4,045.9	10.0	8.3	151.00	-184.4	-220.3	562.7	547.1	15.64	35.976		
4,200.0	4,176.3	4,154.8	4,144.2	10.3	8.6	150.97	-190.4	-225.9	578.8	562.7	16.04	36.076		
4,300.0	4,275.6	4,253.4	4,242.6	10.5	8.8	150.93	-196.5	-231.4	594.9	578.4	16.45	36.171		
4,400.0	4,374.8	4,352.1	4,340.9	10.8	9.0	150.90	-202.5	-237.0	611.0	594.1	16.85	36.261		
4,500.0	4,474.1	4,450.8	4,439.3	11.1	9.2	150.87	-208.6	-242.6	627.0	609.8	17.25	36.347		
4,600.0	4,573.4	4,549.5	4,537.6	11.4	9.5	150.84	-214.6	-248.1	643.1	625.5	17.65	36.428		
4,700.0	4,672.6	4,648.2	4,636.0	11.6	9.7	150.81	-220.7	-253.7	659.2	641.1	18.06	36.506		
4,800.0	4,771.9	4,746.9	4,734.3	11.9	9.9	150.79	-226.7	-259.3	675.3	656.8	18.46	36.580		
4,900.0	4,871.2	4,845.6	4,832.7	12.2	10.1	150.76	-232.7	-264.8	691.4	672.5	18.86	36.652		
5,000.0	4,970.5	4,944.3	4,931.0	12.4	10.4	150.74	-238.8	-270.4	707.5	688.2	19.27	36.719		

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 4R-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 4R-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,069.7	5,043.0	5,029.4	12.7	10.6	150.72	-244.8	-276.0	723.5	703.9	19.67	36.785		
5,200.0	5,169.0	5,141.7	5,127.8	13.0	10.8	150.69	-250.9	-281.5	739.6	719.6	20.07	36.847		
5,300.0	5,268.3	5,240.4	5,226.1	13.3	11.0	150.67	-256.9	-287.1	755.7	735.2	20.48	36.907		
5,400.0	5,367.5	5,339.1	5,324.5	13.5	11.2	150.65	-263.0	-292.7	771.8	750.9	20.88	36.964		
5,500.0	5,466.8	5,437.8	5,422.8	13.8	11.5	150.63	-269.0	-298.3	787.9	766.6	21.28	37.019		
5,600.0	5,566.1	5,536.5	5,521.2	14.1	11.7	150.62	-275.1	-303.8	804.0	782.3	21.69	37.072		
5,700.0	5,665.3	5,635.2	5,619.5	14.4	11.9	150.60	-281.1	-309.4	820.1	798.0	22.09	37.123		
5,800.0	5,764.6	5,733.9	5,717.9	14.6	12.1	150.58	-287.2	-315.0	836.1	813.7	22.49	37.172		
5,900.0	5,863.9	5,832.6	5,816.2	14.9	12.4	150.56	-293.2	-320.5	852.2	829.3	22.90	37.220		
6,000.0	5,963.1	5,931.3	5,914.6	15.2	12.6	150.55	-299.2	-326.1	868.3	845.0	23.30	37.265		
6,100.0	6,062.4	6,030.0	6,012.9	15.5	12.8	150.53	-305.3	-331.7	884.4	860.7	23.70	37.309		
6,200.0	6,161.7	6,128.7	6,111.3	15.7	13.0	150.52	-311.3	-337.2	900.5	876.4	24.11	37.352		
6,300.0	6,260.9	6,227.4	6,209.7	16.0	13.3	150.50	-317.4	-342.8	916.6	892.1	24.51	37.393		
6,400.0	6,360.2	6,326.1	6,308.0	16.3	13.5	150.49	-323.4	-348.4	932.7	907.8	24.92	37.432		
6,500.0	6,459.5	6,424.8	6,406.4	16.6	13.7	150.48	-329.5	-353.9	948.8	923.4	25.32	37.471		
6,600.0	6,558.7	6,523.5	6,504.7	16.8	13.9	150.47	-335.5	-359.5	964.8	939.1	25.72	37.508		
6,700.0	6,658.0	6,622.2	6,603.1	17.1	14.1	150.45	-341.6	-365.1	980.9	954.8	26.13	37.544		
6,787.9	6,745.2	6,708.7	6,689.3	17.3	14.3	150.46	-346.6	-369.9	995.1	968.6	26.47	37.587		
6,800.0	6,757.3	6,720.5	6,701.1	17.4	14.4	158.06	-346.9	-370.6	997.0	970.5	26.51	37.607		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4N-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							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	-89.96	0.0	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-40.0	40.0	39.7	0.30	134.846		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-40.0	40.0	39.4	0.65	61.956		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-40.0	40.0	39.0	0.99	40.217		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-40.0	40.0	38.7	1.34	29.771		
500.0	500.0	500.0	500.0	0.8	0.8	-89.96	0.0	-40.0	40.0	38.3	1.69	23.633	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	150.99	0.0	-40.0	40.8	38.7	2.04	19.965		
700.0	700.0	699.9	699.9	1.2	1.2	152.39	-0.2	-40.1	43.1	40.7	2.39	18.031		
800.0	799.9	799.6	799.6	1.4	1.4	152.76	-1.9	-40.5	47.4	44.6	2.74	17.265		
900.0	899.7	899.3	899.2	1.6	1.5	152.07	-5.2	-41.3	53.5	50.4	3.10	17.263		
1,000.0	999.4	998.7	998.5	1.8	1.7	150.73	-10.2	-42.6	61.6	58.1	3.46	17.774		
1,100.0	1,098.9	1,098.2	1,097.8	2.0	1.9	149.86	-15.9	-44.1	71.3	67.5	3.84	18.592		
1,193.5	1,191.9	1,191.2	1,190.6	2.2	2.1	149.79	-21.2	-45.4	81.9	77.7	4.19	19.524		
1,200.0	1,198.3	1,197.6	1,197.0	2.2	2.1	149.81	-21.6	-45.5	82.6	78.4	4.22	19.593		
1,300.0	1,297.5	1,296.9	1,296.2	2.5	2.3	150.05	-27.2	-46.9	94.6	90.0	4.60	20.558		
1,400.0	1,396.8	1,396.2	1,395.3	2.7	2.5	150.23	-32.9	-48.4	106.5	101.5	4.98	21.363		
1,500.0	1,496.1	1,495.4	1,494.4	3.0	2.7	150.37	-38.5	-49.8	118.4	113.1	5.37	22.043		
1,600.0	1,595.3	1,594.7	1,593.5	3.2	2.9	150.49	-44.2	-51.3	130.4	124.6	5.76	22.625		
1,700.0	1,694.6	1,694.0	1,692.6	3.5	3.1	150.59	-49.8	-52.7	142.3	136.1	6.15	23.128		
1,800.0	1,793.9	1,793.3	1,791.7	3.8	3.3	150.67	-55.5	-54.1	154.2	147.7	6.54	23.567		
1,900.0	1,893.1	1,892.6	1,890.8	4.0	3.5	150.75	-61.1	-55.6	166.2	159.2	6.94	23.952		
2,000.0	1,992.4	1,991.9	1,989.9	4.3	3.7	150.81	-66.8	-57.0	178.1	170.8	7.33	24.294		
2,100.0	2,091.7	2,091.2	2,089.1	4.6	3.9	150.86	-72.4	-58.4	190.0	182.3	7.73	24.599		
2,200.0	2,190.9	2,190.4	2,188.2	4.8	4.1	150.91	-78.1	-59.9	202.0	193.9	8.12	24.873		
2,300.0	2,290.2	2,289.7	2,287.3	5.1	4.3	150.95	-83.8	-61.3	213.9	205.4	8.52	25.119		
2,400.0	2,389.5	2,389.0	2,386.4	5.4	4.5	150.99	-89.4	-62.8	225.8	216.9	8.91	25.343		
2,500.0	2,488.7	2,488.3	2,485.5	5.6	4.7	151.02	-95.1	-64.2	237.8	228.5	9.31	25.546		
2,600.0	2,588.0	2,587.6	2,584.6	5.9	4.9	151.05	-100.7	-65.6	249.7	240.0	9.70	25.732		
2,700.0	2,687.3	2,686.9	2,683.7	6.2	5.1	151.08	-106.4	-67.1	261.7	251.6	10.10	25.903		
2,800.0	2,786.6	2,786.2	2,782.9	6.5	5.3	151.11	-112.0	-68.5	273.6	263.1	10.50	26.060		
2,900.0	2,885.8	2,885.4	2,882.0	6.7	5.5	151.13	-117.7	-69.9	285.5	274.6	10.90	26.205		
3,000.0	2,985.1	2,984.7	2,981.1	7.0	5.7	151.15	-123.3	-71.4	297.5	286.2	11.29	26.340		
3,100.0	3,084.4	3,084.0	3,080.2	7.3	5.9	151.17	-129.0	-72.8	309.4	297.7	11.69	26.464		
3,200.0	3,183.6	3,183.3	3,179.3	7.5	6.1	151.19	-134.6	-74.3	321.3	309.2	12.09	26.581		
3,300.0	3,282.9	3,282.6	3,278.4	7.8	6.3	151.21	-140.3	-75.7	333.3	320.8	12.49	26.689		
3,400.0	3,382.2	3,381.9	3,377.5	8.1	6.5	151.22	-145.9	-77.1	345.2	332.3	12.89	26.791		
3,500.0	3,481.4	3,481.1	3,476.6	8.4	6.7	151.24	-151.6	-78.6	357.1	343.9	13.28	26.886		
3,600.0	3,580.7	3,580.4	3,575.8	8.6	6.9	151.25	-157.2	-80.0	369.1	355.4	13.68	26.975		
3,700.0	3,680.0	3,679.7	3,674.9	8.9	7.1	151.27	-162.9	-81.4	381.0	366.9	14.08	27.060		
3,800.0	3,779.2	3,779.0	3,774.0	9.2	7.3	151.28	-168.6	-82.9	393.0	378.5	14.48	27.139		
3,900.0	3,878.5	3,878.3	3,873.1	9.4	7.5	151.29	-174.2	-84.3	404.9	390.0	14.88	27.214		
4,000.0	3,977.8	3,977.6	3,972.2	9.7	7.7	151.30	-179.9	-85.8	416.8	401.6	15.28	27.285		
4,100.0	4,077.0	4,076.9	4,071.3	10.0	7.9	151.31	-185.5	-87.2	428.8	413.1	15.68	27.352		
4,200.0	4,176.3	4,176.1	4,170.4	10.3	8.1	151.32	-191.2	-88.6	440.7	424.6	16.07	27.416		
4,300.0	4,275.6	4,275.4	4,269.6	10.5	8.3	151.33	-196.8	-90.1	452.6	436.2	16.47	27.476		
4,400.0	4,374.8	4,374.7	4,368.7	10.8	8.5	151.34	-202.5	-91.5	464.6	447.7	16.87	27.534		
4,500.0	4,474.1	4,474.0	4,467.8	11.1	8.7	151.35	-208.1	-92.9	476.5	459.2	17.27	27.589		
4,600.0	4,573.4	4,573.3	4,566.9	11.4	8.9	151.35	-213.8	-94.4	488.5	470.8	17.67	27.641		
4,700.0	4,672.6	4,672.6	4,666.0	11.6	9.1	151.36	-219.4	-95.8	500.4	482.3	18.07	27.691		
4,800.0	4,771.9	4,771.9	4,765.1	11.9	9.3	151.37	-225.1	-97.3	512.3	493.9	18.47	27.738		
4,900.0	4,871.2	4,871.1	4,864.2	12.2	9.5	151.38	-230.7	-98.7	524.3	505.4	18.87	27.784		
5,000.0	4,970.5	4,970.4	4,963.3	12.4	9.7	151.38	-236.4	-100.1	536.2	516.9	19.27	27.828		

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 4R-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 4R-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 4N-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)				
5,100.0	5,069.7	5,069.7	5,062.5	12.7	9.9	151.39	-242.0	-101.6	548.1	528.5	19.67	27.869		
5,200.0	5,169.0	5,169.0	5,161.6	13.0	10.1	151.39	-247.7	-103.0	560.1	540.0	20.07	27.910		
5,300.0	5,268.3	5,268.3	5,260.7	13.3	10.3	151.40	-253.4	-104.5	572.0	551.5	20.47	27.948		
5,400.0	5,367.5	5,367.6	5,359.8	13.5	10.5	151.41	-259.0	-105.9	584.0	563.1	20.87	27.985		
5,500.0	5,466.8	5,466.8	5,458.9	13.8	10.7	151.41	-264.7	-107.3	595.9	574.6	21.27	28.021		
5,600.0	5,566.1	5,566.1	5,558.0	14.1	10.9	151.42	-270.3	-108.8	607.8	586.2	21.67	28.055		
5,700.0	5,665.3	5,665.4	5,657.1	14.4	11.1	151.42	-276.0	-110.2	619.8	597.7	22.07	28.088		
5,800.0	5,764.6	5,764.7	5,756.3	14.6	11.3	151.43	-281.6	-111.6	631.7	609.2	22.46	28.119		
5,900.0	5,863.9	5,864.0	5,855.4	14.9	11.5	151.43	-287.3	-113.1	643.6	620.8	22.86	28.150		
6,000.0	5,963.1	5,963.3	5,954.5	15.2	11.7	151.43	-292.9	-114.5	655.6	632.3	23.26	28.179		
6,100.0	6,062.4	6,062.6	6,053.6	15.5	11.9	151.44	-298.6	-116.0	667.5	643.8	23.66	28.208		
6,200.0	6,161.7	6,161.8	6,152.7	15.7	12.1	151.44	-304.2	-117.4	679.4	655.4	24.06	28.235		
6,300.0	6,260.9	6,261.1	6,251.8	16.0	12.3	151.45	-309.9	-118.8	691.4	666.9	24.46	28.262		
6,400.0	6,360.2	6,360.4	6,350.9	16.3	12.5	151.45	-315.5	-120.3	703.3	678.5	24.86	28.288		
6,500.0	6,459.5	6,459.7	6,450.0	16.6	12.7	151.45	-321.2	-121.7	715.3	690.0	25.26	28.313		
6,600.0	6,558.7	6,559.0	6,549.2	16.8	12.9	151.46	-326.9	-123.1	727.2	701.5	25.66	28.337		
6,700.0	6,658.0	6,658.3	6,648.3	17.1	13.1	151.46	-332.5	-124.6	739.1	713.1	26.06	28.360		
6,787.9	6,745.2	6,745.5	6,735.4	17.3	13.2	151.46	-337.5	-125.8	749.6	723.2	26.41	28.380		
6,800.0	6,757.3	6,757.6	6,747.4	17.4	13.3	159.00	-338.2	-126.0	751.1	724.6	26.46	28.384		
6,850.0	6,807.0	6,807.1	6,796.9	17.5	13.4	-164.35	-341.0	-126.7	757.0	730.3	26.64	28.414		
6,900.0	6,856.6	6,856.4	6,846.1	17.6	13.5	-136.22	-343.8	-127.4	762.9	736.0	26.81	28.450		
6,950.0	6,905.9	6,905.2	6,894.7	17.6	13.6	-121.39	-346.6	-128.2	768.7	741.8	26.98	28.495		
7,000.0	6,954.6	6,953.1	6,942.6	17.7	13.7	-113.60	-349.3	-128.8	774.7	747.6	27.13	28.554		
7,050.0	7,002.5	7,001.5	6,991.0	17.7	13.8	-109.23	-351.2	-129.6	780.9	753.6	27.26	28.645		
7,100.0	7,049.3	7,051.3	7,040.7	17.7	13.8	-106.58	-349.8	-130.3	787.2	759.9	27.34	28.798		
7,150.0	7,094.9	7,102.2	7,091.3	17.7	13.8	-104.90	-344.8	-131.0	793.7	766.3	27.36	29.006		
7,200.0	7,139.0	7,154.3	7,142.7	17.8	13.8	-103.83	-336.0	-131.8	800.2	772.9	27.34	29.267		
7,250.0	7,181.4	7,207.8	7,194.6	17.7	13.8	-103.16	-323.0	-132.5	806.8	779.6	27.28	29.577		
7,300.0	7,221.8	7,262.8	7,246.7	17.7	13.8	-102.76	-305.8	-133.3	813.5	786.3	27.18	29.929		
7,350.0	7,260.1	7,319.2	7,298.8	17.8	13.7	-102.56	-284.0	-134.0	820.0	793.0	27.05	30.315		
7,400.0	7,296.2	7,377.2	7,350.3	17.8	13.7	-102.49	-257.3	-134.8	826.5	799.5	26.90	30.720		
7,450.0	7,329.7	7,436.8	7,400.8	17.8	13.6	-102.53	-225.7	-135.5	832.7	806.0	26.75	31.126		
7,500.0	7,360.6	7,498.1	7,449.8	17.9	13.5	-102.64	-188.9	-136.2	838.7	812.1	26.62	31.508		
7,550.0	7,388.8	7,561.1	7,496.7	17.9	13.5	-102.81	-146.9	-136.9	844.4	817.8	26.53	31.830		
7,600.0	7,414.0	7,625.8	7,540.8	18.0	13.5	-103.00	-99.6	-137.5	849.6	823.1	26.50	32.057		
7,650.0	7,436.1	7,692.1	7,581.4	18.2	13.5	-103.21	-47.3	-138.1	854.4	827.9	26.57	32.153		
7,700.0	7,455.1	7,759.9	7,617.8	18.4	13.6	-103.42	9.9	-138.6	858.7	831.9	26.77	32.071		
7,750.0	7,470.8	7,829.1	7,649.1	18.6	13.8	-103.61	71.6	-139.1	862.3	835.2	27.13	31.782		
7,800.0	7,483.2	7,899.6	7,674.8	18.8	14.1	-103.79	137.2	-139.5	865.2	837.6	27.66	31.283		
7,850.0	7,492.3	7,971.0	7,694.1	19.1	14.6	-103.93	206.0	-139.7	867.5	839.1	28.39	30.560		
7,900.0	7,497.9	8,043.2	7,706.6	19.4	15.1	-104.04	277.0	-139.9	868.9	839.6	29.29	29.662		
7,950.0	7,500.0	8,115.9	7,711.8	19.7	15.7	-104.10	349.5	-140.0	869.5	839.1	30.38	28.622		
7,955.7	7,500.0	8,124.1	7,712.0	19.7	15.7	-104.11	357.7	-140.0	869.5	839.0	30.51	28.498		
8,000.0	7,500.0	8,170.7	7,712.0	20.1	16.2	-104.11	404.3	-140.0	869.5	838.2	31.36	27.731		
8,100.0	7,500.0	8,270.7	7,712.0	20.9	17.2	-104.11	504.3	-140.0	869.5	836.2	33.36	26.067		
8,200.0	7,500.0	8,370.7	7,712.0	21.8	18.3	-104.11	604.3	-140.0	869.5	834.0	35.57	24.447		
8,300.0	7,500.0	8,470.7	7,712.0	22.9	19.6	-104.11	704.3	-140.0	869.5	831.6	37.96	22.909		
8,400.0	7,500.0	8,570.7	7,712.0	24.0	20.9	-104.11	804.3	-140.0	869.5	829.1	40.49	21.476		
8,495.7	7,500.0	8,666.4	7,712.0	25.1	22.2	-104.11	900.0	-140.0	869.5	826.5	43.03	20.210		
8,500.0	7,500.0	8,670.7	7,712.0	25.2	22.2	-104.11	904.3	-140.0	869.5	826.4	43.14	20.155		
8,600.0	7,500.0	8,770.7	7,712.0	26.4	23.6	-104.11	1,004.3	-140.0	869.5	823.7	45.89	18.946		
8,700.0	7,500.0	8,870.7	7,712.0	27.7	25.1	-104.11	1,104.3	-140.0	869.5	820.8	48.73	17.844		

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 4R-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 4R-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 4N-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		
8,800.0	7,500.0	8,970.7	7,712.0	29.1	26.6	-104.11	1,204.3	-140.0	869.5	817.9	51.63	16.841		
8,900.0	7,500.0	9,070.7	7,712.0	30.5	28.1	-104.11	1,304.3	-140.0	869.5	815.0	54.59	15.927		
9,000.0	7,500.0	9,170.7	7,712.0	31.9	29.7	-104.11	1,404.3	-140.0	869.5	811.9	57.61	15.095		
9,100.0	7,500.0	9,270.7	7,712.0	33.4	31.2	-104.11	1,504.3	-140.0	869.5	808.9	60.66	14.335		
9,200.0	7,500.0	9,370.7	7,712.0	34.9	32.8	-104.11	1,604.3	-140.0	869.5	805.8	63.74	13.641		
9,300.0	7,500.0	9,470.7	7,712.0	36.4	34.4	-104.11	1,704.3	-140.0	869.5	802.7	66.86	13.005		
9,400.0	7,500.0	9,570.7	7,712.0	37.9	36.0	-104.11	1,804.3	-140.0	869.5	799.5	70.01	12.421		
9,500.0	7,500.0	9,670.7	7,712.0	39.5	37.7	-104.11	1,904.3	-140.0	869.5	796.4	73.18	11.883		
9,600.0	7,500.0	9,770.7	7,712.0	41.0	39.3	-104.11	2,004.3	-140.0	869.5	793.2	76.36	11.387		
9,700.0	7,500.0	9,870.7	7,712.0	42.6	41.0	-104.11	2,104.3	-140.0	869.5	790.0	79.57	10.928		
9,800.0	7,500.0	9,970.7	7,712.0	44.2	42.6	-104.11	2,204.3	-140.0	869.5	786.8	82.79	10.503		
9,900.0	7,500.0	10,070.7	7,712.0	45.8	44.3	-104.11	2,304.3	-140.0	869.5	783.5	86.03	10.108		
10,000.0	7,500.0	10,170.7	7,712.0	47.4	46.0	-104.11	2,404.3	-140.0	869.5	780.3	89.28	9.740		
10,100.0	7,500.0	10,270.7	7,712.0	49.1	47.6	-104.11	2,504.3	-140.0	869.5	777.0	92.54	9.397		
10,200.0	7,500.0	10,370.7	7,712.0	50.7	49.3	-104.11	2,604.3	-140.0	869.5	773.7	95.81	9.076		
10,300.0	7,500.0	10,470.7	7,712.0	52.3	51.0	-104.11	2,704.3	-140.0	869.5	770.5	99.08	8.776		
10,400.0	7,500.0	10,570.7	7,712.0	54.0	52.7	-104.11	2,804.3	-140.0	869.5	767.2	102.37	8.494		
10,500.0	7,500.0	10,670.7	7,712.0	55.7	54.4	-104.11	2,904.3	-140.0	869.5	763.9	105.67	8.229		
10,600.0	7,500.0	10,770.7	7,712.0	57.3	56.1	-104.11	3,004.3	-140.0	869.5	760.6	108.97	7.980		
10,700.0	7,500.0	10,870.7	7,712.0	59.0	57.8	-104.11	3,104.3	-140.0	869.5	757.3	112.27	7.745		
10,800.0	7,500.0	10,970.7	7,712.0	60.7	59.5	-104.11	3,204.3	-140.0	869.5	754.0	115.59	7.523		
10,900.0	7,500.0	11,070.7	7,712.0	62.3	61.2	-104.11	3,304.3	-140.0	869.5	750.6	118.90	7.313		
11,000.0	7,500.0	11,170.7	7,712.0	64.0	62.9	-104.11	3,404.3	-140.0	869.5	747.3	122.23	7.114		
11,100.0	7,500.0	11,270.7	7,712.0	65.7	64.6	-104.11	3,504.3	-140.0	869.5	744.0	125.55	6.926		
11,200.0	7,500.0	11,370.7	7,712.0	67.4	66.4	-104.11	3,604.3	-140.0	869.5	740.7	128.88	6.747		
11,300.0	7,500.0	11,470.7	7,712.0	69.1	68.1	-104.11	3,704.3	-140.0	869.5	737.3	132.22	6.577		
11,345.7	7,500.0	11,516.4	7,712.0	69.9	68.9	-104.11	3,750.0	-140.0	869.5	735.8	133.74	6.502		
11,345.7	7,500.0	11,516.4	7,712.0	69.9	68.9	-104.11	3,750.0	-140.0	869.5	735.8	133.74	6.502		
11,400.0	7,500.0	11,570.7	7,712.0	70.8	69.8	-104.11	3,804.3	-140.0	870.0	734.4	135.56	6.418		
11,500.0	7,500.0	11,670.7	7,712.0	72.5	71.5	-104.07	3,904.3	-140.0	873.1	734.2	138.93	6.284		
11,600.0	7,500.0	12,062.9	7,712.0	74.2	77.7	-104.61	4,266.5	-81.8	863.6	720.6	143.05	6.037		
11,700.0	7,500.0	12,062.9	7,712.0	75.9	77.7	-104.54	4,266.5	-81.8	847.6	700.1	147.47	5.748		
11,759.7	7,500.0	12,062.9	7,712.0	77.0	77.7	-104.53	4,266.5	-81.8	845.0	695.7	149.28	5.660		
11,800.0	7,500.0	12,062.9	7,712.0	77.7	77.7	-104.54	4,266.5	-81.8	846.2	696.1	150.13	5.636		
11,828.3	7,500.0	12,062.9	7,712.0	78.2	77.7	-104.55	4,266.5	-81.8	848.5	697.9	150.53	5.636 SF		
11,857.5	7,500.0	12,062.9	7,712.0	78.7	77.7	-104.55	4,266.5	-81.8	851.9	701.1	150.79	5.650		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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	-90.04	0.0	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-90.04	0.0	-29.9	29.9	29.6	0.30	100.899		
200.0	200.0	200.0	200.0	0.3	0.3	-90.04	0.0	-29.9	29.9	29.3	0.65	46.359		
300.0	300.0	300.0	300.0	0.5	0.5	-90.04	0.0	-29.9	29.9	28.9	0.99	30.093		
400.0	400.0	400.0	400.0	0.7	0.7	-90.04	0.0	-29.9	29.9	28.6	1.34	22.276		
500.0	500.0	500.0	500.0	0.8	0.8	-90.04	0.0	-29.9	29.9	28.2	1.69	17.683	CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	151.11	0.0	-29.9	30.7	28.7	2.04	15.032		
700.0	700.0	700.2	700.2	1.2	1.2	151.92	-0.8	-29.6	32.6	30.3	2.39	13.644		
800.0	799.9	800.4	800.4	1.4	1.4	151.36	-3.3	-28.6	35.4	32.7	2.75	12.894		
900.0	899.7	900.6	900.5	1.6	1.6	149.77	-7.3	-26.9	39.0	35.9	3.11	12.557		
1,000.0	999.4	1,000.6	1,000.3	1.8	1.7	147.64	-12.8	-24.5	43.6	40.1	3.48	12.520		
1,100.0	1,098.9	1,100.5	1,099.9	2.0	1.9	146.65	-18.7	-22.1	49.5	45.6	3.86	12.821		
1,193.5	1,191.9	1,193.8	1,193.0	2.2	2.1	146.81	-24.1	-19.8	56.3	52.1	4.22	13.351		
1,200.0	1,198.3	1,200.2	1,199.5	2.2	2.1	146.85	-24.5	-19.6	56.9	52.6	4.24	13.394		
1,300.0	1,297.5	1,299.9	1,298.9	2.5	2.3	147.41	-30.3	-17.2	64.9	60.2	4.63	14.003		
1,400.0	1,396.8	1,399.5	1,398.4	2.7	2.5	147.84	-36.1	-14.7	72.9	67.9	5.02	14.512		
1,500.0	1,496.1	1,499.2	1,497.9	3.0	2.7	148.18	-42.0	-12.3	80.9	75.5	5.42	14.943		
1,600.0	1,595.3	1,598.9	1,597.4	3.2	2.9	148.46	-47.8	-9.8	89.0	83.2	5.81	15.312		
1,700.0	1,694.6	1,698.6	1,696.8	3.5	3.1	148.70	-53.6	-7.4	97.0	90.8	6.21	15.631		
1,800.0	1,793.9	1,798.2	1,796.3	3.8	3.3	148.90	-59.4	-4.9	105.0	98.4	6.60	15.910		
1,900.0	1,893.1	1,897.9	1,895.8	4.0	3.5	149.07	-65.3	-2.4	113.1	106.1	7.00	16.156		
2,000.0	1,992.4	1,997.6	1,995.3	4.3	3.7	149.22	-71.1	0.0	121.1	113.7	7.40	16.374		
2,100.0	2,091.7	2,097.3	2,094.7	4.6	3.9	149.35	-76.9	2.5	129.1	121.3	7.79	16.569		
2,200.0	2,190.9	2,196.9	2,194.2	4.8	4.1	149.46	-82.7	4.9	137.2	129.0	8.19	16.743		
2,300.0	2,290.2	2,296.6	2,293.7	5.1	4.3	149.56	-88.6	7.4	145.2	136.6	8.59	16.901		
2,400.0	2,389.5	2,396.3	2,393.2	5.4	4.5	149.65	-94.4	9.8	153.3	144.3	8.99	17.045		
2,500.0	2,488.7	2,496.0	2,492.6	5.6	4.7	149.74	-100.2	12.3	161.3	151.9	9.39	17.175		
2,600.0	2,588.0	2,595.7	2,592.1	5.9	5.0	149.81	-106.1	14.8	169.3	159.5	9.79	17.295		
2,700.0	2,687.3	2,695.3	2,691.6	6.2	5.2	149.88	-111.9	17.2	177.4	167.2	10.19	17.405		
2,800.0	2,786.6	2,795.0	2,791.1	6.5	5.4	149.94	-117.7	19.7	185.4	174.8	10.59	17.506		
2,900.0	2,885.8	2,894.7	2,890.5	6.7	5.6	150.00	-123.5	22.1	193.5	182.5	10.99	17.599		
3,000.0	2,985.1	2,994.4	2,990.0	7.0	5.8	150.05	-129.4	24.6	201.5	190.1	11.39	17.686		
3,100.0	3,084.4	3,094.0	3,089.5	7.3	6.0	150.10	-135.2	27.0	209.5	197.7	11.79	17.766		
3,200.0	3,183.6	3,193.7	3,189.0	7.5	6.2	150.14	-141.0	29.5	217.6	205.4	12.19	17.842		
3,300.0	3,282.9	3,293.4	3,288.4	7.8	6.4	150.18	-146.8	31.9	225.6	213.0	12.60	17.912		
3,400.0	3,382.2	3,393.1	3,387.9	8.1	6.6	150.22	-152.7	34.4	233.7	220.7	13.00	17.977		
3,500.0	3,481.4	3,492.7	3,487.4	8.4	6.8	150.26	-158.5	36.9	241.7	228.3	13.40	18.039		
3,600.0	3,580.7	3,592.4	3,586.9	8.6	7.0	150.29	-164.3	39.3	249.7	235.9	13.80	18.097		
3,700.0	3,680.0	3,692.1	3,686.3	8.9	7.2	150.32	-170.2	41.8	257.8	243.6	14.20	18.151		
3,800.0	3,779.2	3,791.8	3,785.8	9.2	7.4	150.35	-176.0	44.2	265.8	251.2	14.60	18.203		
3,900.0	3,878.5	3,891.4	3,885.3	9.4	7.6	150.38	-181.8	46.7	273.9	258.9	15.00	18.252		
4,000.0	3,977.8	3,991.1	3,984.8	9.7	7.8	150.41	-187.6	49.1	281.9	266.5	15.41	18.298		
4,100.0	4,077.0	4,090.8	4,084.2	10.0	8.0	150.43	-193.5	51.6	289.9	274.1	15.81	18.341		
4,200.0	4,176.3	4,190.5	4,183.7	10.3	8.2	150.46	-199.3	54.0	298.0	281.8	16.21	18.383		
4,300.0	4,275.6	4,290.1	4,283.2	10.5	8.4	150.48	-205.1	56.5	306.0	289.4	16.61	18.422		
4,400.0	4,374.8	4,389.8	4,382.7	10.8	8.6	150.50	-210.9	59.0	314.1	297.1	17.01	18.459		
4,500.0	4,474.1	4,489.5	4,482.1	11.1	8.8	150.52	-216.8	61.4	322.1	304.7	17.42	18.495		
4,600.0	4,573.4	4,589.2	4,581.6	11.4	9.1	150.54	-222.6	63.9	330.2	312.3	17.82	18.529		
4,700.0	4,672.6	4,688.8	4,681.1	11.6	9.3	150.56	-228.4	66.3	338.2	320.0	18.22	18.562		
4,800.0	4,771.9	4,788.5	4,780.6	11.9	9.5	150.57	-234.3	68.8	346.2	327.6	18.62	18.593		
4,900.0	4,871.2	4,888.2	4,880.1	12.2	9.7	150.59	-240.1	71.2	354.3	335.3	19.02	18.622		
5,000.0	4,970.5	4,987.9	4,979.5	12.4	9.9	150.61	-245.9	73.7	362.3	342.9	19.43	18.651		

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 4R-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 4R-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	
5,100.0	5,069.7	5,087.6	5,079.0	12.7	10.1	150.62	-251.7	76.1	370.4	350.5	19.83	18.678	
5,200.0	5,169.0	5,187.2	5,178.5	13.0	10.3	150.64	-257.6	78.6	378.4	358.2	20.23	18.704	
5,300.0	5,268.3	5,286.9	5,278.0	13.3	10.5	150.65	-263.4	81.1	386.4	365.8	20.63	18.729	
5,400.0	5,367.5	5,386.6	5,377.4	13.5	10.7	150.66	-269.2	83.5	394.5	373.5	21.04	18.753	
5,500.0	5,466.8	5,486.3	5,476.9	13.8	10.9	150.68	-275.0	86.0	402.5	381.1	21.44	18.777	
5,600.0	5,566.1	5,585.9	5,576.4	14.1	11.1	150.69	-280.9	88.4	410.6	388.7	21.84	18.799	
5,700.0	5,665.3	5,685.6	5,675.9	14.4	11.3	150.70	-286.7	90.9	418.6	396.4	22.24	18.821	
5,800.0	5,764.6	5,785.3	5,775.3	14.6	11.5	150.71	-292.5	93.3	426.7	404.0	22.64	18.841	
5,900.0	5,863.9	5,885.0	5,874.8	14.9	11.7	150.72	-298.3	95.8	434.7	411.6	23.05	18.861	
6,000.0	5,963.1	5,984.6	5,974.3	15.2	11.9	150.73	-304.2	98.2	442.7	419.3	23.45	18.881	
6,100.0	6,062.4	6,084.3	6,073.8	15.5	12.1	150.74	-310.0	100.7	450.8	426.9	23.85	18.899	
6,200.0	6,161.7	6,184.0	6,173.2	15.7	12.3	150.75	-315.8	103.2	458.8	434.6	24.25	18.917	
6,300.0	6,260.9	6,283.7	6,272.7	16.0	12.5	150.76	-321.7	105.6	466.9	442.2	24.66	18.935	
6,400.0	6,360.2	6,383.3	6,372.2	16.3	12.8	150.77	-327.5	108.1	474.9	449.8	25.06	18.951	
6,500.0	6,459.5	6,483.0	6,471.7	16.6	13.0	150.78	-333.3	110.5	482.9	457.5	25.46	18.968	
6,600.0	6,558.7	6,582.7	6,571.1	16.8	13.2	150.79	-339.1	113.0	491.0	465.1	25.86	18.984	
6,700.0	6,658.0	6,682.4	6,670.6	17.1	13.4	150.80	-345.0	115.4	499.0	472.8	26.27	18.999	
6,787.9	6,745.2	6,768.9	6,757.1	17.3	13.5	151.39	-344.9	117.6	506.2	479.7	26.49	19.110	
6,800.0	6,757.3	6,780.8	6,768.9	17.4	13.5	159.06	-344.0	117.9	507.2	480.7	26.50	19.139	
6,850.0	6,807.0	6,829.3	6,817.1	17.5	13.5	-163.59	-338.6	119.1	511.4	484.9	26.52	19.286	
6,900.0	6,856.6	6,877.4	6,864.4	17.6	13.5	-134.53	-330.0	120.2	515.6	489.1	26.49	19.466	
6,950.0	6,905.9	6,925.2	6,910.7	17.6	13.5	-118.55	-318.4	121.4	519.9	493.5	26.42	19.675	
7,000.0	6,954.6	6,972.6	6,955.8	17.7	13.5	-109.44	-303.8	122.5	524.2	497.8	26.33	19.906	
7,050.0	7,002.5	7,019.7	6,999.6	17.7	13.4	-103.61	-286.4	123.6	528.4	502.2	26.22	20.153	
7,100.0	7,049.3	7,066.5	7,041.8	17.7	13.4	-99.53	-266.2	124.6	532.6	506.5	26.10	20.409	
7,150.0	7,094.9	7,113.1	7,082.4	17.7	13.3	-96.46	-243.5	125.6	536.7	510.7	25.97	20.666	
7,200.0	7,139.0	7,159.4	7,121.3	17.8	13.3	-94.05	-218.4	126.6	540.7	514.9	25.85	20.915	
7,250.0	7,181.4	7,205.4	7,158.2	17.7	13.2	-92.09	-190.9	127.5	544.6	518.8	25.75	21.148	
7,300.0	7,221.8	7,250.0	7,192.2	17.7	13.2	-90.46	-162.1	128.3	548.3	522.6	25.68	21.352	
7,350.0	7,260.1	7,296.9	7,226.0	17.8	13.2	-89.07	-129.6	129.2	551.8	526.2	25.64	21.522	
7,400.0	7,296.2	7,342.4	7,256.7	17.8	13.2	-87.89	-96.1	129.9	555.1	529.5	25.65	21.643	
7,450.0	7,329.7	7,387.7	7,285.0	17.8	13.2	-86.87	-60.8	130.6	558.2	532.5	25.71	21.710	
7,500.0	7,360.6	7,432.8	7,311.0	17.9	13.3	-86.00	-23.8	131.3	561.1	535.2	25.84	21.714	
7,550.0	7,388.8	7,477.9	7,334.6	17.9	13.3	-85.25	14.5	131.8	563.7	537.6	26.03	21.656	
7,600.0	7,414.0	7,522.8	7,355.7	18.0	13.5	-84.62	54.2	132.4	566.0	539.7	26.29	21.526	
7,650.0	7,436.1	7,567.7	7,374.2	18.2	13.6	-84.10	95.1	132.8	568.0	541.4	26.63	21.328	
7,700.0	7,455.1	7,612.4	7,390.0	18.4	13.8	-83.67	136.9	133.2	569.7	542.7	27.05	21.064	
7,750.0	7,470.8	7,657.2	7,403.3	18.6	14.1	-83.34	179.6	133.5	571.1	543.6	27.54	20.740	
7,800.0	7,483.2	7,700.0	7,413.4	18.8	14.4	-83.10	221.2	133.8	572.2	544.2	28.08	20.382	
7,850.0	7,492.3	7,746.5	7,421.6	19.1	14.7	-82.94	267.0	134.0	573.0	544.3	28.75	19.932	
7,900.0	7,497.9	7,791.2	7,426.6	19.4	15.1	-82.87	311.4	134.1	573.5	544.0	29.46	19.465	
7,950.0	7,500.0	7,835.8	7,428.9	19.7	15.4	-82.88	356.0	134.2	573.6	543.3	30.23	18.970	
7,955.7	7,500.0	7,840.9	7,428.9	19.7	15.5	-82.88	361.1	134.2	573.6	543.2	30.32	18.914	
7,974.8	7,500.0	7,858.9	7,429.0	19.9	15.7	-82.89	379.1	134.2	573.5	542.9	30.66	18.706	
8,000.0	7,500.0	7,884.2	7,429.0	20.1	15.9	-82.89	404.3	134.2	573.5	542.4	31.14	18.416	
8,100.0	7,500.0	7,984.2	7,429.0	20.9	16.9	-82.89	504.3	134.2	573.5	540.3	33.23	17.260	
8,200.0	7,500.0	8,084.2	7,429.0	21.8	18.1	-82.89	604.3	134.2	573.5	538.0	35.53	16.143	
8,300.0	7,500.0	8,184.2	7,429.0	22.9	19.3	-82.89	704.3	134.2	573.5	535.5	38.01	15.090	
8,400.0	7,500.0	8,284.2	7,429.0	24.0	20.6	-82.89	804.3	134.2	573.5	532.9	40.64	14.114	
8,495.7	7,500.0	8,379.8	7,429.0	25.1	21.9	-82.89	900.0	134.2	573.5	530.3	43.26	13.257	
8,500.0	7,500.0	8,384.2	7,429.0	25.2	22.0	-82.89	904.3	134.2	573.5	530.2	43.38	13.220	
8,600.0	7,500.0	8,484.2	7,429.0	26.4	23.4	-82.89	1,004.3	134.2	573.5	527.3	46.23	12.406	

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 4R-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 4R-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		
8,700.0	7,500.0	8,584.2	7,429.0	27.7	24.9	-82.89	1,104.3	134.2	573.5	524.4	49.16	11.667		
8,800.0	7,500.0	8,684.2	7,429.0	29.1	26.4	-82.89	1,204.3	134.2	573.5	521.4	52.16	10.997		
8,900.0	7,500.0	8,784.2	7,429.0	30.5	27.9	-82.89	1,304.3	134.2	573.5	518.3	55.21	10.388		
9,000.0	7,500.0	8,884.2	7,429.0	31.9	29.5	-82.89	1,404.3	134.2	573.5	515.2	58.31	9.836		
9,100.0	7,500.0	8,984.2	7,429.0	33.4	31.0	-82.89	1,504.3	134.2	573.5	512.1	61.45	9.333		
9,200.0	7,500.0	9,084.2	7,429.0	34.9	32.6	-82.89	1,604.3	134.2	573.5	508.9	64.63	8.874		
9,300.0	7,500.0	9,184.2	7,429.0	36.4	34.3	-82.89	1,704.3	134.2	573.5	505.7	67.84	8.455		
9,400.0	7,500.0	9,284.2	7,429.0	37.9	35.9	-82.89	1,804.3	134.2	573.5	502.5	71.07	8.070		
9,500.0	7,500.0	9,384.2	7,429.0	39.5	37.5	-82.89	1,904.3	134.2	573.5	499.2	74.33	7.717		
9,600.0	7,500.0	9,484.2	7,429.0	41.0	39.2	-82.89	2,004.3	134.2	573.5	495.9	77.60	7.391		
9,700.0	7,500.0	9,584.2	7,429.0	42.6	40.8	-82.89	2,104.3	134.2	573.5	492.7	80.89	7.090		
9,800.0	7,500.0	9,684.2	7,429.0	44.2	42.5	-82.89	2,204.3	134.2	573.5	489.3	84.20	6.812		
9,900.0	7,500.0	9,784.2	7,429.0	45.8	44.1	-82.89	2,304.3	134.2	573.5	486.0	87.52	6.553		
10,000.0	7,500.0	9,884.2	7,429.0	47.4	45.8	-82.89	2,404.3	134.2	573.5	482.7	90.86	6.313		
10,100.0	7,500.0	9,984.2	7,429.0	49.1	47.5	-82.89	2,504.3	134.2	573.5	479.3	94.20	6.089		
10,200.0	7,500.0	10,084.2	7,429.0	50.7	49.2	-82.89	2,604.3	134.2	573.5	476.0	97.55	5.879		
10,300.0	7,500.0	10,184.2	7,429.0	52.3	50.9	-82.89	2,704.3	134.2	573.5	472.6	100.91	5.684		
10,400.0	7,500.0	10,284.2	7,429.0	54.0	52.6	-82.89	2,804.3	134.2	573.5	469.3	104.28	5.500		
10,500.0	7,500.0	10,384.2	7,429.0	55.7	54.3	-82.89	2,904.3	134.2	573.5	465.9	107.66	5.327		
10,600.0	7,500.0	10,484.2	7,429.0	57.3	56.0	-82.89	3,004.3	134.2	573.5	462.5	111.04	5.165		
10,700.0	7,500.0	10,584.2	7,429.0	59.0	57.7	-82.89	3,104.3	134.2	573.5	459.1	114.43	5.012		
10,800.0	7,500.0	10,684.2	7,429.0	60.7	59.4	-82.89	3,204.3	134.2	573.5	455.7	117.83	4.868		
10,900.0	7,500.0	10,784.2	7,429.0	62.3	61.1	-82.89	3,304.3	134.2	573.5	452.3	121.23	4.731		
11,000.0	7,500.0	10,884.2	7,429.0	64.0	62.8	-82.89	3,404.3	134.2	573.5	448.9	124.63	4.602		
11,100.0	7,500.0	10,984.2	7,429.0	65.7	64.5	-82.89	3,504.3	134.2	573.5	445.5	128.04	4.479		
11,200.0	7,500.0	11,084.2	7,429.0	67.4	66.3	-82.89	3,604.3	134.2	573.5	442.1	131.45	4.363		
11,300.0	7,500.0	11,184.2	7,429.0	69.1	68.0	-82.89	3,704.3	134.2	573.5	438.7	134.87	4.253		
11,345.7	7,500.0	11,229.8	7,429.0	69.9	68.8	-82.89	3,750.0	134.2	573.5	437.1	136.43	4.204		
11,345.7	7,500.0	11,229.8	7,429.0	69.9	68.8	-82.89	3,750.0	134.2	573.5	437.1	136.43	4.204		
11,400.0	7,500.0	11,284.2	7,429.0	70.8	69.7	-82.89	3,804.3	134.2	574.0	435.7	138.29	4.151		
11,500.0	7,500.0	11,384.1	7,429.0	72.5	71.4	-82.93	3,904.3	134.2	577.2	435.5	141.72	4.073		
11,600.0	7,500.0	11,483.9	7,429.0	74.2	73.1	-82.99	4,004.1	134.2	583.4	438.2	145.16	4.019		
11,700.0	7,500.0	11,583.5	7,429.0	75.9	74.9	-83.08	4,103.6	134.2	592.6	444.0	148.60	3.988 SF		
11,800.0	7,500.0	11,640.0	7,429.0	77.7	75.8	-83.13	4,160.1	133.8	606.8	456.9	149.87	4.049		
11,828.3	7,500.0	11,650.0	7,429.0	78.2	76.0	-83.14	4,170.1	132.9	613.3	463.5	149.74	4.096		
11,857.5	7,500.0	11,650.0	7,429.0	78.7	76.0	-83.14	4,170.1	132.9	621.0	472.3	148.74	4.175		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4P-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							
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	-89.88	0.0	-19.9	19.9				
100.0	100.0	100.0	100.0	0.1	0.1	-89.88	0.0	-19.9	19.9	19.6	0.30	66.951	
200.0	200.0	200.0	200.0	0.3	0.3	-89.88	0.0	-19.9	19.9	19.2	0.65	30.762	
300.0	300.0	300.0	300.0	0.5	0.5	-89.88	0.0	-19.9	19.9	18.9	0.99	19.968	
400.0	400.0	400.0	400.0	0.7	0.7	-89.88	0.0	-19.9	19.9	18.5	1.34	14.782	
500.0	500.0	500.0	500.0	0.8	0.8	-89.88	0.0	-19.9	19.9	18.2	1.69	11.734 CC, ES	
600.0	600.0	600.1	600.1	1.0	1.0	151.21	-0.1	-19.7	20.5	18.4	2.04	10.028	
700.0	700.0	700.4	700.3	1.2	1.2	151.12	-1.4	-18.6	21.6	19.2	2.39	9.025	
800.0	799.9	800.6	800.5	1.4	1.4	149.91	-4.1	-16.2	23.1	20.3	2.75	8.398	
900.0	899.7	900.9	900.6	1.6	1.6	147.83	-8.0	-12.8	24.9	21.8	3.11	8.018	
1,000.0	999.4	1,001.1	1,000.6	1.8	1.8	145.15	-13.3	-8.1	27.2	23.7	3.49	7.807	
1,100.0	1,098.9	1,101.0	1,100.3	2.0	2.0	143.57	-19.1	-2.9	30.5	26.6	3.87	7.868	
1,193.5	1,191.9	1,194.5	1,193.4	2.2	2.2	143.94	-24.6	1.9	34.8	30.6	4.24	8.208	
1,200.0	1,198.3	1,200.9	1,199.8	2.2	2.2	144.02	-25.0	2.2	35.1	30.9	4.26	8.239	
1,300.0	1,297.5	1,300.8	1,299.4	2.5	2.4	145.02	-30.8	7.4	40.4	35.8	4.66	8.683	
1,400.0	1,396.8	1,400.6	1,398.9	2.7	2.6	145.78	-36.7	12.6	45.7	40.7	5.05	9.055	
1,500.0	1,496.1	1,500.5	1,498.5	3.0	2.8	146.39	-42.6	17.7	51.0	45.6	5.44	9.373	
1,600.0	1,595.3	1,600.4	1,598.1	3.2	3.0	146.88	-48.4	22.9	56.3	50.5	5.84	9.647	
1,700.0	1,694.6	1,700.2	1,697.6	3.5	3.2	147.29	-54.3	28.1	61.7	55.4	6.24	9.884	
1,800.0	1,793.9	1,800.1	1,797.2	3.8	3.4	147.63	-60.1	33.3	67.0	60.3	6.64	10.093	
1,900.0	1,893.1	1,899.9	1,896.7	4.0	3.7	147.92	-66.0	38.4	72.3	65.3	7.03	10.278	
2,000.0	1,992.4	1,999.8	1,996.3	4.3	3.9	148.17	-71.9	43.6	77.6	70.2	7.43	10.442	
2,100.0	2,091.7	2,099.6	2,095.8	4.6	4.1	148.39	-77.7	48.8	82.9	75.1	7.83	10.589	
2,200.0	2,190.9	2,199.5	2,195.4	4.8	4.3	148.59	-83.6	53.9	88.3	80.0	8.23	10.722	
2,300.0	2,290.2	2,299.4	2,294.9	5.1	4.5	148.76	-89.4	59.1	93.6	85.0	8.63	10.842	
2,400.0	2,389.5	2,399.2	2,394.5	5.4	4.7	148.91	-95.3	64.3	98.9	89.9	9.03	10.951	
2,500.0	2,488.7	2,499.1	2,494.0	5.6	5.0	149.05	-101.1	69.5	104.2	94.8	9.43	11.051	
2,600.0	2,588.0	2,598.9	2,593.6	5.9	5.2	149.17	-107.0	74.6	109.6	99.7	9.83	11.142	
2,700.0	2,687.3	2,698.8	2,693.1	6.2	5.4	149.28	-112.9	79.8	114.9	104.7	10.23	11.227	
2,800.0	2,786.6	2,798.6	2,792.7	6.5	5.6	149.39	-118.7	85.0	120.2	109.6	10.63	11.304	
2,900.0	2,885.8	2,898.5	2,892.2	6.7	5.8	149.48	-124.6	90.1	125.5	114.5	11.04	11.376	
3,000.0	2,985.1	2,998.4	2,991.8	7.0	6.1	149.57	-130.4	95.3	130.9	119.4	11.44	11.443	
3,100.0	3,084.4	3,098.2	3,091.3	7.3	6.3	149.64	-136.3	100.5	136.2	124.4	11.84	11.505	
3,200.0	3,183.6	3,198.1	3,190.9	7.5	6.5	149.72	-142.1	105.7	141.5	129.3	12.24	11.563	
3,300.0	3,282.9	3,297.9	3,290.4	7.8	6.7	149.79	-148.0	110.8	146.9	134.2	12.64	11.618	
3,400.0	3,382.2	3,397.8	3,390.0	8.1	6.9	149.85	-153.9	116.0	152.2	139.1	13.04	11.669	
3,500.0	3,481.4	3,497.7	3,489.5	8.4	7.2	149.91	-159.7	121.2	157.5	144.1	13.44	11.716	
3,600.0	3,580.7	3,597.5	3,589.1	8.6	7.4	149.96	-165.6	126.3	162.8	149.0	13.85	11.761	
3,700.0	3,680.0	3,697.4	3,688.6	8.9	7.6	150.02	-171.4	131.5	168.2	153.9	14.25	11.804	
3,800.0	3,779.2	3,797.2	3,788.2	9.2	7.8	150.06	-177.3	136.7	173.5	158.9	14.65	11.844	
3,900.0	3,878.5	3,897.1	3,887.7	9.4	8.0	150.11	-183.2	141.9	178.8	163.8	15.05	11.882	
4,000.0	3,977.8	3,996.9	3,987.3	9.7	8.3	150.15	-189.0	147.0	184.2	168.7	15.45	11.918	
4,100.0	4,077.0	4,096.8	4,086.8	10.0	8.5	150.19	-194.9	152.2	189.5	173.6	15.85	11.952	
4,200.0	4,176.3	4,196.7	4,186.4	10.3	8.7	150.23	-200.7	157.4	194.8	178.6	16.26	11.984	
4,300.0	4,275.6	4,296.5	4,285.9	10.5	8.9	150.27	-206.6	162.5	200.1	183.5	16.66	12.015	
4,400.0	4,374.8	4,396.4	4,385.5	10.8	9.1	150.30	-212.4	167.7	205.5	188.4	17.06	12.044	
4,500.0	4,474.1	4,496.2	4,485.0	11.1	9.4	150.33	-218.3	172.9	210.8	193.3	17.46	12.072	
4,600.0	4,573.4	4,596.1	4,584.6	11.4	9.6	150.37	-224.2	178.1	216.1	198.3	17.86	12.099	
4,700.0	4,672.6	4,695.9	4,684.2	11.6	9.8	150.40	-230.0	183.2	221.5	203.2	18.27	12.124	
4,800.0	4,771.9	4,795.8	4,783.7	11.9	10.0	150.42	-235.9	188.4	226.8	208.1	18.67	12.149	
4,900.0	4,871.2	4,895.7	4,883.3	12.2	10.2	150.45	-241.7	193.6	232.1	213.1	19.07	12.172	
5,000.0	4,970.5	4,995.5	4,982.8	12.4	10.5	150.48	-247.6	198.8	237.5	218.0	19.47	12.194	

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 4R-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 4R-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 4P-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
5,100.0	5,069.7	5,095.4	5,082.4	12.7	10.7	150.50	-253.4	203.9	242.8	222.9	19.88	12.216	
5,200.0	5,169.0	5,195.2	5,181.9	13.0	10.9	150.52	-259.3	209.1	248.1	227.8	20.28	12.236	
5,300.0	5,268.3	5,295.1	5,281.5	13.3	11.1	150.55	-265.2	214.3	253.5	232.8	20.68	12.256	
5,400.0	5,367.5	5,395.0	5,381.0	13.5	11.4	150.57	-271.0	219.4	258.8	237.7	21.08	12.275	
5,500.0	5,466.8	5,494.8	5,480.6	13.8	11.6	150.59	-276.9	224.6	264.1	242.6	21.48	12.293	
5,600.0	5,566.1	5,594.7	5,580.1	14.1	11.8	150.61	-282.7	229.8	269.4	247.6	21.89	12.311	
5,700.0	5,665.3	5,694.5	5,679.7	14.4	12.0	150.63	-288.6	235.0	274.8	252.5	22.29	12.328	
5,800.0	5,764.6	5,794.4	5,779.2	14.6	12.2	150.65	-294.5	240.1	280.1	257.4	22.69	12.344	
5,900.0	5,863.9	5,894.2	5,878.8	14.9	12.5	150.66	-300.3	245.3	285.4	262.3	23.09	12.360	
6,000.0	5,963.1	5,994.1	5,978.3	15.2	12.7	150.68	-306.2	250.5	290.8	267.3	23.50	12.375	
6,100.0	6,062.4	6,094.0	6,077.9	15.5	12.9	150.70	-312.0	255.6	296.1	272.2	23.90	12.390	
6,200.0	6,161.7	6,193.8	6,177.4	15.7	13.1	150.71	-317.9	260.8	301.4	277.1	24.30	12.404	
6,300.0	6,260.9	6,293.7	6,277.0	16.0	13.3	150.73	-323.7	266.0	306.8	282.1	24.70	12.418	
6,400.0	6,360.2	6,393.5	6,376.5	16.3	13.6	150.74	-329.6	271.2	312.1	287.0	25.11	12.431	
6,500.0	6,459.5	6,493.4	6,476.1	16.6	13.8	150.76	-335.5	276.3	317.4	291.9	25.51	12.444	
6,600.0	6,558.7	6,593.2	6,575.6	16.8	14.0	150.77	-341.3	281.5	322.7	296.8	25.91	12.457	
6,700.0	6,658.0	6,693.1	6,675.2	17.1	14.2	150.78	-347.2	286.7	328.1	301.8	26.31	12.469	
6,787.9	6,745.2	6,780.6	6,762.4	17.3	14.4	150.85	-352.0	291.2	332.8	306.1	26.65	12.487	
6,800.0	6,757.3	6,792.6	6,774.4	17.4	14.4	158.39	-352.3	291.8	333.4	306.7	26.68	12.496	
6,850.0	6,807.0	6,841.8	6,823.5	17.5	14.5	-164.79	-351.3	294.3	336.2	309.4	26.77	12.557	
6,900.0	6,856.6	6,890.9	6,872.4	17.6	14.5	-136.23	-346.9	296.7	339.0	312.2	26.81	12.644	
6,950.0	6,905.9	6,940.0	6,920.7	17.6	14.6	-120.75	-339.2	299.0	341.9	315.1	26.81	12.753	
7,000.0	6,954.6	6,988.9	6,968.4	17.7	14.6	-112.10	-328.2	301.3	344.7	318.0	26.76	12.882	
7,050.0	7,002.5	7,037.8	7,015.1	17.7	14.5	-106.73	-314.0	303.4	347.7	321.0	26.69	13.028	
7,100.0	7,049.3	7,086.6	7,060.6	17.7	14.5	-103.08	-296.7	305.4	350.6	324.0	26.58	13.187	
7,150.0	7,094.9	7,135.3	7,104.9	17.7	14.5	-100.42	-276.3	307.3	353.4	327.0	26.47	13.354	
7,200.0	7,139.0	7,184.0	7,147.6	17.8	14.4	-98.40	-253.1	309.1	356.3	330.0	26.34	13.525	
7,250.0	7,181.4	7,232.6	7,188.5	17.7	14.4	-96.80	-227.0	310.7	359.1	332.9	26.23	13.693	
7,300.0	7,221.8	7,281.1	7,227.6	17.7	14.3	-95.50	-198.2	312.2	361.9	335.7	26.12	13.852	
7,350.0	7,260.1	7,329.7	7,264.6	17.8	14.3	-94.44	-166.8	313.5	364.6	338.5	26.05	13.996	
7,400.0	7,296.2	7,378.2	7,299.4	17.8	14.3	-93.54	-133.1	314.7	367.1	341.1	26.01	14.116	
7,450.0	7,329.7	7,426.6	7,331.8	17.8	14.3	-92.79	-97.1	315.7	369.6	343.6	26.02	14.205	
7,500.0	7,360.6	7,475.1	7,361.7	17.9	14.3	-92.16	-59.0	316.6	372.0	345.9	26.09	14.257	
7,550.0	7,388.8	7,523.5	7,389.0	17.9	14.4	-91.63	-18.9	317.3	374.3	348.1	26.23	14.267	
7,600.0	7,414.0	7,572.0	7,413.5	18.0	14.5	-91.18	22.9	317.8	376.4	350.0	26.45	14.230	
7,650.0	7,436.1	7,620.4	7,435.1	18.2	14.6	-90.82	66.2	318.1	378.4	351.7	26.76	14.143	
7,700.0	7,455.1	7,668.9	7,453.7	18.4	14.8	-90.52	110.9	318.3	380.2	353.1	27.15	14.007	
7,750.0	7,470.8	7,717.4	7,469.3	18.6	15.0	-90.29	156.8	318.3	381.9	354.3	27.63	13.823	
7,800.0	7,483.2	7,765.9	7,481.8	18.8	15.3	-90.13	203.7	318.1	383.4	355.2	28.20	13.597	
7,850.0	7,492.3	7,814.4	7,491.0	19.1	15.6	-90.02	251.3	317.8	384.7	355.9	28.86	13.333	
7,900.0	7,497.9	7,863.0	7,497.1	19.4	15.9	-89.98	299.5	317.2	385.9	356.3	29.60	13.038	
7,950.0	7,500.0	7,911.6	7,499.8	19.7	16.3	-89.98	348.0	316.5	386.8	356.4	30.41	12.720	
7,955.7	7,500.0	7,917.1	7,499.9	19.7	16.4	-89.99	353.5	316.4	386.9	356.4	30.51	12.682	
8,000.0	7,500.0	7,961.1	7,500.0	20.1	16.8	-90.00	397.6	315.7	387.7	356.4	31.33	12.374	
8,100.0	7,500.0	8,061.1	7,500.0	20.9	17.7	-90.00	497.5	313.9	389.4	356.0	33.39	11.664	
8,200.0	7,500.0	8,161.1	7,500.0	21.8	18.8	-90.00	597.5	312.2	391.2	355.5	35.67	10.968	
8,300.0	7,500.0	8,261.1	7,500.0	22.9	20.0	-90.00	697.5	310.4	392.9	354.8	38.13	10.305	
8,400.0	7,500.0	8,361.1	7,500.0	24.0	21.2	-90.00	797.5	308.7	394.7	353.9	40.75	9.685	
8,495.7	7,500.0	8,456.7	7,500.0	25.1	22.5	-90.00	893.1	307.0	396.3	353.0	43.37	9.138	
8,500.0	7,500.0	8,461.1	7,500.0	25.2	22.5	-90.00	897.4	306.9	396.4	352.9	43.49	9.115	
8,600.0	7,500.0	8,561.0	7,500.0	26.4	23.9	-90.00	997.4	305.2	398.2	351.8	46.34	8.592	
8,700.0	7,500.0	8,661.0	7,500.0	27.7	25.3	-90.00	1,097.4	303.5	399.9	350.6	49.27	8.116	

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 4R-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 4R-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 4P-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		
8,800.0	7,500.0	8,761.0	7,500.0	29.1	26.8	-90.00	1,197.3	301.7	401.7	349.4	52.28	7.683		
8,900.0	7,500.0	8,861.0	7,500.0	30.5	28.3	-90.00	1,297.3	300.0	403.4	348.1	55.34	7.290		
9,000.0	7,500.0	8,961.0	7,500.0	31.9	29.8	-90.00	1,397.3	298.2	405.1	346.7	58.45	6.931		
9,100.0	7,500.0	9,061.0	7,500.0	33.4	31.4	-90.00	1,497.2	296.5	406.9	345.3	61.61	6.605		
9,200.0	7,500.0	9,161.0	7,500.0	34.9	32.9	-90.00	1,597.2	294.7	408.6	343.8	64.80	6.306		
9,300.0	7,500.0	9,260.9	7,500.0	36.4	34.5	-90.00	1,697.2	293.0	410.4	342.4	68.02	6.033		
9,400.0	7,500.0	9,360.9	7,500.0	37.9	36.1	-90.00	1,797.1	291.2	412.1	340.9	71.27	5.782		
9,500.0	7,500.0	9,460.9	7,500.0	39.5	37.7	-90.00	1,897.1	289.5	413.9	339.3	74.54	5.552		
9,600.0	7,500.0	9,560.9	7,500.0	41.0	39.4	-90.00	1,997.1	287.8	415.6	337.8	77.84	5.339		
9,700.0	7,500.0	9,660.9	7,500.0	42.6	41.0	-90.00	2,097.1	286.0	417.4	336.2	81.15	5.143		
9,800.0	7,500.0	9,760.9	7,500.0	44.2	42.7	-90.00	2,197.0	284.3	419.1	334.6	84.48	4.961		
9,900.0	7,500.0	9,860.9	7,500.0	45.8	44.3	-90.00	2,297.0	282.5	420.8	333.0	87.82	4.792		
10,000.0	7,500.0	9,960.8	7,500.0	47.4	46.0	-90.00	2,397.0	280.8	422.6	331.4	91.17	4.635		
10,100.0	7,500.0	10,060.8	7,500.0	49.1	47.6	-90.00	2,496.9	279.0	424.3	329.8	94.54	4.489		
10,200.0	7,500.0	10,160.8	7,500.0	50.7	49.3	-90.00	2,596.9	277.3	426.1	328.2	97.91	4.352		
10,300.0	7,500.0	10,260.8	7,500.0	52.3	51.0	-90.00	2,696.9	275.5	427.8	326.5	101.30	4.224		
10,400.0	7,500.0	10,360.8	7,500.0	54.0	52.7	-90.00	2,796.8	273.8	429.6	324.9	104.69	4.103		
10,500.0	7,500.0	10,460.8	7,500.0	55.7	54.4	-90.00	2,896.8	272.0	431.3	323.2	108.09	3.990		
10,600.0	7,500.0	10,560.7	7,500.0	57.3	56.1	-90.00	2,996.8	270.3	433.1	321.6	111.49	3.884		
10,700.0	7,500.0	10,660.7	7,500.0	59.0	57.8	-90.00	3,096.8	268.6	434.8	319.9	114.91	3.784		
10,800.0	7,500.0	10,760.7	7,500.0	60.7	59.5	-90.00	3,196.7	266.8	436.6	318.2	118.33	3.689		
10,900.0	7,500.0	10,860.7	7,500.0	62.3	61.2	-90.00	3,296.7	265.1	438.3	316.5	121.75	3.600		
11,000.0	7,500.0	10,960.7	7,500.0	64.0	62.9	-90.00	3,396.7	263.3	440.0	314.9	125.18	3.515		
11,100.0	7,500.0	11,060.7	7,500.0	65.7	64.6	-90.00	3,496.6	261.6	441.8	313.2	128.61	3.435		
11,200.0	7,500.0	11,160.7	7,500.0	67.4	66.3	-90.00	3,596.6	259.8	443.5	311.5	132.04	3.359		
11,300.0	7,500.0	11,260.6	7,500.0	69.1	68.0	-90.00	3,696.6	258.1	445.3	309.8	135.48	3.287		
11,345.7	7,500.0	11,306.3	7,500.0	69.9	68.8	-90.00	3,742.2	257.3	446.1	309.0	137.06	3.255		
11,400.0	7,500.0	11,360.6	7,500.0	70.8	69.7	-90.00	3,796.5	256.3	447.5	308.5	138.93	3.221		
11,500.0	7,500.0	11,460.5	7,500.0	72.5	71.4	-90.00	3,896.4	254.6	452.4	310.1	142.37	3.178		
11,600.0	7,500.0	11,560.2	7,500.0	74.2	73.1	-90.00	3,996.0	252.9	460.4	314.6	145.81	3.158 SF		
11,700.0	7,500.0	11,659.5	7,500.0	75.9	74.9	-90.00	4,095.4	251.1	471.5	322.2	149.23	3.159		
11,800.0	7,500.0	11,758.5	7,500.0	77.7	76.6	-90.00	4,194.4	249.4	485.6	332.9	152.65	3.181		
11,828.3	7,500.0	11,786.5	7,500.0	78.2	77.0	-90.00	4,222.3	248.9	490.1	336.5	153.62	3.191		
11,857.5	7,500.0	11,815.3	7,500.0	78.7	77.5	-90.00	4,251.1	248.4	494.9	340.3	154.61	3.201		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4Q-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.86	0.0	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.86	0.0	-10.1	10.1	9.8	0.30	33.947		
200.0	200.0	200.0	200.0	0.3	0.3	-89.86	0.0	-10.1	10.1	9.4	0.65	15.597		
300.0	300.0	300.0	300.0	0.5	0.5	-89.86	0.0	-10.1	10.1	9.1	0.99	10.125		
400.0	400.0	400.0	400.0	0.7	0.7	-89.86	0.0	-10.1	10.1	8.7	1.34	7.495		
500.0	500.0	500.0	500.0	0.8	0.8	-89.86	0.0	-10.1	10.1	8.4	1.69	5.950 CC		
600.0	600.0	600.1	600.1	1.0	1.0	150.14	-0.5	-9.4	10.1	8.1	2.04	4.950		
700.0	700.0	700.3	700.2	1.2	1.2	149.09	-2.0	-7.2	10.2	7.8	2.39	4.273		
800.0	799.9	800.4	800.3	1.4	1.4	147.39	-4.4	-3.6	10.4	7.7	2.75	3.794		
900.0	899.7	900.6	900.3	1.6	1.6	145.12	-7.9	1.5	10.7	7.6	3.11	3.446		
1,000.0	999.4	1,000.7	1,000.1	1.8	1.8	142.39	-12.3	8.0	11.1	7.6	3.49	3.189		
1,100.0	1,098.9	1,100.9	1,099.8	2.0	2.0	139.31	-17.8	15.9	11.6	7.8	3.89	2.996		
1,193.5	1,191.9	1,194.4	1,192.8	2.2	2.2	138.77	-23.3	24.0	12.8	8.5	4.27	2.990		
1,200.0	1,198.3	1,200.9	1,199.2	2.2	2.2	138.89	-23.7	24.5	12.9	8.6	4.29	3.000		
1,300.0	1,297.5	1,300.8	1,298.6	2.5	2.5	140.52	-29.6	33.2	14.7	10.0	4.69	3.131		
1,400.0	1,396.8	1,400.8	1,398.1	2.7	2.7	141.80	-35.6	41.8	16.5	11.4	5.09	3.244		
1,500.0	1,496.1	1,500.8	1,497.5	3.0	2.9	142.81	-41.5	50.5	18.4	12.9	5.49	3.341		
1,600.0	1,595.3	1,600.8	1,596.9	3.2	3.2	143.65	-47.4	59.1	20.2	14.3	5.89	3.425		
1,700.0	1,694.6	1,700.8	1,696.4	3.5	3.4	144.34	-53.3	67.7	22.0	15.7	6.30	3.499		
1,800.0	1,793.9	1,800.7	1,795.8	3.8	3.7	144.93	-59.3	76.4	23.9	17.2	6.70	3.564		
1,900.0	1,893.1	1,900.7	1,895.2	4.0	3.9	145.43	-65.2	85.0	25.7	18.6	7.10	3.623		
2,000.0	1,992.4	2,000.7	1,994.7	4.3	4.2	145.87	-71.1	93.7	27.6	20.1	7.50	3.675		
2,100.0	2,091.7	2,100.7	2,094.1	4.6	4.4	146.25	-77.0	102.3	29.4	21.5	7.90	3.722		
2,200.0	2,190.9	2,200.7	2,193.5	4.8	4.7	146.58	-83.0	111.0	31.3	23.0	8.31	3.765		
2,300.0	2,290.2	2,300.7	2,293.0	5.1	4.9	146.88	-88.9	119.6	33.1	24.4	8.71	3.803		
2,400.0	2,389.5	2,400.6	2,392.4	5.4	5.1	147.15	-94.8	128.3	35.0	25.9	9.11	3.839		
2,500.0	2,488.7	2,500.6	2,491.8	5.6	5.4	147.39	-100.8	136.9	36.8	27.3	9.51	3.871		
2,600.0	2,588.0	2,600.6	2,591.2	5.9	5.6	147.60	-106.7	145.5	38.7	28.8	9.91	3.901		
2,700.0	2,687.3	2,700.6	2,690.7	6.2	5.9	147.80	-112.6	154.2	40.5	30.2	10.32	3.929		
2,800.0	2,786.6	2,800.6	2,790.1	6.5	6.1	147.98	-118.5	162.8	42.4	31.7	10.72	3.954		
2,900.0	2,885.8	2,900.6	2,889.5	6.7	6.4	148.15	-124.5	171.5	44.2	33.1	11.12	3.978		
3,000.0	2,985.1	3,000.5	2,989.0	7.0	6.6	148.30	-130.4	180.1	46.1	34.6	11.52	4.000		
3,100.0	3,084.4	3,100.5	3,088.4	7.3	6.9	148.44	-136.3	188.8	47.9	36.0	11.92	4.021		
3,200.0	3,183.6	3,200.5	3,187.8	7.5	7.2	148.57	-142.2	197.4	49.8	37.5	12.33	4.040		
3,300.0	3,282.9	3,300.5	3,287.3	7.8	7.4	148.69	-148.2	206.0	51.7	38.9	12.73	4.058		
3,400.0	3,382.2	3,400.5	3,386.7	8.1	7.7	148.80	-154.1	214.7	53.5	40.4	13.13	4.075		
3,500.0	3,481.4	3,500.5	3,486.1	8.4	7.9	148.90	-160.0	223.3	55.4	41.8	13.53	4.091		
3,600.0	3,580.7	3,600.4	3,585.6	8.6	8.2	149.00	-166.0	232.0	57.2	43.3	13.94	4.106		
3,700.0	3,680.0	3,700.4	3,685.0	8.9	8.4	149.09	-171.9	240.6	59.1	44.7	14.34	4.121		
3,800.0	3,779.2	3,800.4	3,784.4	9.2	8.7	149.18	-177.8	249.3	60.9	46.2	14.74	4.134		
3,900.0	3,878.5	3,900.4	3,883.9	9.4	8.9	149.26	-183.7	257.9	62.8	47.7	15.14	4.147		
4,000.0	3,977.8	4,000.4	3,983.3	9.7	9.2	149.33	-189.7	266.5	64.7	49.1	15.55	4.159		
4,100.0	4,077.0	4,100.4	4,082.7	10.0	9.4	149.40	-195.6	275.2	66.5	50.6	15.95	4.170		
4,200.0	4,176.3	4,200.3	4,182.2	10.3	9.7	149.47	-201.5	283.8	68.4	52.0	16.35	4.181		
4,300.0	4,275.6	4,300.3	4,281.6	10.5	9.9	149.54	-207.4	292.5	70.2	53.5	16.75	4.192		
4,400.0	4,374.8	4,400.3	4,381.0	10.8	10.2	149.60	-213.4	301.1	72.1	54.9	17.15	4.202		
4,500.0	4,474.1	4,500.3	4,480.5	11.1	10.4	149.66	-219.3	309.8	73.9	56.4	17.56	4.211		
4,600.0	4,573.4	4,600.3	4,579.9	11.4	10.7	149.71	-225.2	318.4	75.8	57.8	17.96	4.220		
4,700.0	4,672.6	4,700.2	4,679.3	11.6	10.9	149.76	-231.2	327.0	77.7	59.3	18.36	4.229		
4,800.0	4,771.9	4,800.2	4,778.7	11.9	11.2	149.81	-237.1	335.7	79.5	60.7	18.76	4.237		
4,900.0	4,871.2	4,900.2	4,878.2	12.2	11.4	149.86	-243.0	344.3	81.4	62.2	19.17	4.245		
5,000.0	4,970.5	5,000.2	4,977.6	12.4	11.7	149.91	-248.9	353.0	83.2	63.7	19.57	4.253		

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 4R-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 4R-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 4Q-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							
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	
5,100.0	5,069.7	5,100.2	5,077.0	12.7	11.9	149.95	-254.9	361.6	85.1	65.1	19.97	4.260		
5,200.0	5,169.0	5,200.2	5,176.5	13.0	12.2	149.99	-260.8	370.3	86.9	66.6	20.37	4.267		
5,300.0	5,268.3	5,300.1	5,275.9	13.3	12.4	150.03	-266.7	378.9	88.8	68.0	20.77	4.274		
5,400.0	5,367.5	5,400.1	5,375.3	13.5	12.7	150.07	-272.6	387.6	90.7	69.5	21.18	4.281		
5,500.0	5,466.8	5,500.1	5,474.8	13.8	12.9	150.11	-278.6	396.2	92.5	70.9	21.58	4.287		
5,600.0	5,566.1	5,600.1	5,574.2	14.1	13.2	150.14	-284.5	404.8	94.4	72.4	21.98	4.293		
5,700.0	5,665.3	5,700.1	5,673.6	14.4	13.5	150.18	-290.4	413.5	96.2	73.8	22.38	4.299		
5,800.0	5,764.6	5,800.1	5,773.1	14.6	13.7	150.21	-296.3	422.1	98.1	75.3	22.79	4.305		
5,900.0	5,863.9	5,900.0	5,872.5	14.9	14.0	150.24	-302.3	430.8	99.9	76.8	23.19	4.310		
6,000.0	5,963.1	6,000.0	5,971.9	15.2	14.2	150.27	-308.2	439.4	101.8	78.2	23.59	4.315		
6,100.0	6,062.4	6,100.0	6,071.4	15.5	14.5	150.30	-314.1	448.1	103.7	79.7	23.99	4.320		
6,200.0	6,161.7	6,200.0	6,170.8	15.7	14.7	150.33	-320.1	456.7	105.5	81.1	24.40	4.325		
6,300.0	6,260.9	6,300.0	6,270.2	16.0	15.0	150.36	-326.0	465.3	107.4	82.6	24.80	4.330		
6,400.0	6,360.2	6,400.0	6,369.7	16.3	15.2	150.38	-331.9	474.0	109.2	84.0	25.20	4.335		
6,500.0	6,459.5	6,499.9	6,469.1	16.6	15.5	150.41	-337.8	482.6	111.1	85.5	25.60	4.339		
6,600.0	6,558.7	6,599.9	6,568.5	16.8	15.7	150.43	-343.8	491.3	112.9	86.9	26.00	4.343		
6,700.0	6,658.0	6,699.9	6,668.0	17.1	16.0	150.46	-349.7	499.9	114.8	88.4	26.41	4.348		
6,787.9	6,745.2	6,787.8	6,755.3	17.3	16.2	150.52	-354.8	507.5	116.4	89.7	26.75	4.353		
6,800.0	6,757.3	6,799.9	6,767.4	17.4	16.2	158.05	-355.3	508.6	116.7	89.9	26.78	4.356		
6,850.0	6,807.0	6,849.9	6,817.2	17.5	16.3	-165.14	-354.9	512.9	117.6	90.7	26.85	4.379		
6,900.0	6,856.6	6,899.9	6,866.8	17.6	16.4	-136.59	-351.0	517.3	118.4	91.6	26.86	4.410		
6,950.0	6,905.9	6,949.8	6,916.0	17.6	16.4	-121.11	-343.7	521.7	119.3	92.5	26.83	4.446		
7,000.0	6,954.6	6,999.6	6,964.5	17.7	16.5	-112.48	-333.0	526.0	120.1	93.3	26.76	4.488		
7,050.0	7,002.5	7,049.4	7,012.1	17.7	16.5	-107.11	-319.0	530.3	120.9	94.2	26.66	4.534		
7,100.0	7,049.3	7,099.2	7,058.5	17.7	16.5	-103.46	-301.7	534.5	121.6	95.1	26.54	4.582		
7,150.0	7,094.9	7,148.9	7,103.6	17.7	16.5	-100.81	-281.2	538.6	122.3	95.9	26.41	4.631		
7,200.0	7,139.0	7,198.6	7,147.1	17.8	16.5	-98.78	-257.6	542.6	122.9	96.6	26.27	4.678		
7,250.0	7,181.4	7,248.2	7,188.9	17.7	16.4	-97.18	-231.1	546.5	123.5	97.3	26.15	4.721		
7,300.0	7,221.8	7,297.8	7,228.7	17.7	16.4	-95.87	-201.8	550.2	124.0	97.9	26.06	4.758		
7,350.0	7,260.1	7,347.3	7,266.3	17.8	16.4	-94.79	-169.8	553.8	124.4	98.4	25.99	4.787		
7,400.0	7,296.2	7,396.8	7,301.6	17.8	16.4	-93.89	-135.3	557.2	124.8	98.9	25.98	4.805		
7,450.0	7,329.7	7,446.3	7,334.5	17.8	16.5	-93.12	-98.5	560.4	125.2	99.1	26.02	4.810		
7,500.0	7,360.6	7,495.7	7,364.7	17.9	16.5	-92.47	-59.5	563.4	125.4	99.3	26.13	4.800		
7,550.0	7,388.8	7,545.1	7,392.1	17.9	16.6	-91.91	-18.5	566.1	125.6	99.3	26.31	4.774		
7,600.0	7,414.0	7,594.4	7,416.7	18.0	16.7	-91.44	24.3	568.7	125.7	99.1	26.57	4.732		
7,650.0	7,436.1	7,643.8	7,438.2	18.2	16.9	-91.04	68.6	570.9	125.7	98.8	26.91	4.672		
7,700.0	7,455.1	7,693.1	7,456.6	18.4	17.0	-90.72	114.3	572.9	125.7	98.4	27.35	4.597		
7,750.0	7,470.8	7,742.4	7,471.9	18.6	17.3	-90.46	161.1	574.7	125.6	97.7	27.86	4.508		
7,800.0	7,483.2	7,791.7	7,483.9	18.8	17.5	-90.26	208.9	576.1	125.4	97.0	28.46	4.407		
7,850.0	7,492.3	7,841.0	7,492.6	19.1	17.8	-90.12	257.3	577.3	125.2	96.0	29.14	4.295		
7,900.0	7,497.9	7,890.2	7,498.0	19.4	18.1	-90.03	306.3	578.2	124.9	95.0	29.90	4.176		
7,950.0	7,500.0	7,939.5	7,500.0	19.7	18.5	-90.00	355.5	578.8	124.5	93.8	30.72	4.052		
7,955.7	7,500.0	7,945.1	7,500.0	19.7	18.5	-90.00	361.1	578.9	124.4	93.6	30.81	4.038		
8,000.0	7,500.0	7,989.4	7,500.0	20.1	18.9	-90.00	405.4	579.3	124.0	92.4	31.67	3.917		
8,100.0	7,500.0	8,089.4	7,500.0	20.9	19.8	-90.00	505.4	580.1	123.2	89.4	33.77	3.647		
8,200.0	7,500.0	8,189.4	7,500.0	21.8	20.8	-90.00	605.4	581.0	122.3	86.2	36.09	3.389		
8,300.0	7,500.0	8,289.4	7,500.0	22.9	21.9	-90.00	705.4	581.9	121.4	82.8	38.58	3.147		
8,400.0	7,500.0	8,389.4	7,500.0	24.0	23.0	-90.00	805.4	582.8	120.5	79.3	41.23	2.924		
8,495.7	7,500.0	8,485.1	7,500.0	25.1	24.2	-90.00	901.0	583.6	119.7	75.8	43.88	2.728		
8,500.0	7,500.0	8,489.4	7,500.0	25.2	24.3	-90.00	905.4	583.6	119.7	75.7	44.00	2.720		
8,600.0	7,500.0	8,589.4	7,500.0	26.4	25.6	-90.00	1,005.4	584.5	118.8	71.9	46.86	2.535		
8,700.0	7,500.0	8,689.4	7,500.0	27.7	27.0	-90.00	1,105.4	585.4	117.9	68.1	49.81	2.368		

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 4R-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 4R-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 4Q-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
8,800.0	7,500.0	8,789.4	7,500.0	29.1	28.4	-90.00	1,205.4	586.2	117.1	64.2	52.83	2.216		
8,900.0	7,500.0	8,889.4	7,500.0	30.5	29.8	-90.00	1,305.4	587.1	116.2	60.3	55.90	2.078		
9,000.0	7,500.0	8,989.4	7,500.0	31.9	31.3	-90.00	1,405.3	588.0	115.3	56.3	59.02	1.954		
9,100.0	7,500.0	9,089.4	7,500.0	33.4	32.8	-90.00	1,505.3	588.9	114.4	52.3	62.19	1.840		
9,200.0	7,500.0	9,189.4	7,500.0	34.9	34.3	-90.00	1,605.3	589.7	113.6	48.2	65.39	1.737		
9,300.0	7,500.0	9,289.4	7,500.0	36.4	35.8	-90.00	1,705.3	590.6	112.7	44.1	68.62	1.642		
9,400.0	7,500.0	9,389.4	7,500.0	37.9	37.4	-90.00	1,805.3	591.5	111.8	39.9	71.87	1.556		
9,500.0	7,500.0	9,489.4	7,500.0	39.5	39.0	-90.00	1,905.3	592.4	110.9	35.8	75.15	1.476 Level 3		
9,600.0	7,500.0	9,589.3	7,500.0	41.0	40.6	-90.00	2,005.3	593.2	110.1	31.6	78.45	1.403 Level 3		
9,700.0	7,500.0	9,689.3	7,500.0	42.6	42.2	-90.00	2,105.3	594.1	109.2	27.4	81.76	1.336 Level 3		
9,800.0	7,500.0	9,789.2	7,500.0	44.2	43.8	-90.00	2,205.2	595.0	108.3	23.3	85.07	1.273 Level 3		
9,845.7	7,500.0	9,834.1	7,500.0	44.9	44.5	-90.00	2,250.0	595.1	108.2	21.7	86.42	1.251 Level 3		
9,900.0	7,500.0	9,887.5	7,500.0	45.8	45.4	-90.00	2,303.4	594.9	108.4	20.4	88.04	1.231 Level 2		
10,000.0	7,500.0	9,987.5	7,500.0	47.4	47.0	-90.00	2,403.4	594.0	109.3	17.9	91.40	1.195 Level 2		
10,100.0	7,500.0	10,087.5	7,500.0	49.1	48.6	-90.00	2,503.4	593.2	110.1	15.4	94.76	1.162 Level 2		
10,200.0	7,500.0	10,187.5	7,500.0	50.7	50.3	-90.00	2,603.4	592.3	111.0	12.8	98.14	1.131 Level 2		
10,300.0	7,500.0	10,287.5	7,500.0	52.3	51.9	-90.00	2,703.4	591.5	111.8	10.3	101.52	1.101 Level 2		
10,400.0	7,500.0	10,387.5	7,500.0	54.0	53.6	-90.00	2,803.4	590.6	112.7	7.8	104.91	1.074 Level 2		
10,500.0	7,500.0	10,487.4	7,500.0	55.7	55.3	-90.00	2,903.4	589.8	113.5	5.2	108.32	1.048 Level 2		
10,600.0	7,500.0	10,587.4	7,500.0	57.3	56.9	-90.00	3,003.4	588.9	114.4	2.7	111.72	1.024 Level 2		
10,700.0	7,500.0	10,687.4	7,500.0	59.0	58.6	-90.00	3,103.4	588.1	115.2	0.1	115.14	1.001 Level 2		
10,800.0	7,500.0	10,787.4	7,500.0	60.7	60.3	-90.00	3,203.3	587.2	116.1	-2.5	118.55	0.979 Level 1		
10,900.0	7,500.0	10,887.4	7,500.0	62.3	62.0	-90.00	3,303.3	586.4	116.9	-5.0	121.98	0.959 Level 1		
11,000.0	7,500.0	10,987.4	7,500.0	64.0	63.7	-90.00	3,403.3	585.5	117.8	-7.6	125.41	0.939 Level 1		
11,100.0	7,500.0	11,087.4	7,500.0	65.7	65.3	-90.00	3,503.3	584.7	118.6	-10.2	128.84	0.921 Level 1		
11,200.0	7,500.0	11,187.4	7,500.0	67.4	67.0	-90.00	3,603.3	583.8	119.5	-12.8	132.28	0.903 Level 1		
11,300.0	7,500.0	11,287.4	7,500.0	69.1	68.7	-90.00	3,703.3	582.9	120.4	-15.4	135.72	0.887 Level 1		
11,345.7	7,500.0	11,333.1	7,500.0	69.9	69.5	-90.00	3,749.0	582.6	120.7	-16.5	137.29	0.879 Level 1		
11,400.0	7,500.0	11,387.4	7,500.0	70.8	70.4	-90.00	3,803.3	582.1	121.7	-17.5	139.16	0.874 Level 1, ES, SF		
11,500.0	7,500.0	11,487.3	7,500.0	72.5	72.1	-90.00	3,903.2	581.2	125.7	-16.9	142.60	0.882 Level 1		
11,600.0	7,500.0	11,587.1	7,500.0	74.2	73.8	-90.00	4,002.9	580.4	132.8	-13.2	146.04	0.910 Level 1		
11,700.0	7,500.0	11,686.5	7,500.0	75.9	75.5	-90.00	4,102.4	579.5	143.0	-6.5	149.47	0.957 Level 1		
11,800.0	7,500.0	11,785.7	7,500.0	77.7	77.2	-90.00	4,201.5	578.7	156.2	3.3	152.90	1.022 Level 2		
11,828.3	7,500.0	11,813.6	7,500.0	78.2	77.7	-90.00	4,229.5	578.5	160.5	6.6	153.86	1.043 Level 2		
11,857.5	7,500.0	11,842.5	7,500.0	78.7	78.2	-90.00	4,258.3	578.2	165.1	10.2	154.86	1.066 Level 2		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4S-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							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.05	0.0	10.1	10.1	9.8	0.30	33.947		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	10.1	10.1	9.4	0.65	15.597		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	10.1	10.1	9.1	0.99	10.125		
400.0	400.0	400.0	400.0	0.7	0.7	90.05	0.0	10.1	10.1	8.7	1.34	7.495 CC, ES		
500.0	500.0	499.8	499.8	0.8	0.8	91.92	-0.4	10.9	10.9	9.2	1.69	6.424		
600.0	600.0	599.6	599.6	1.0	1.0	-25.08	-1.4	13.2	12.5	10.5	2.04	6.140		
700.0	700.0	699.4	699.3	1.2	1.2	-23.68	-3.2	17.2	14.3	11.9	2.39	5.970		
800.0	799.9	799.1	798.8	1.4	1.4	-23.16	-5.7	22.8	16.1	13.3	2.74	5.863		
900.0	899.7	898.8	898.2	1.6	1.6	-23.25	-8.9	29.9	17.9	14.8	3.09	5.793		
1,000.0	999.4	998.5	997.4	1.8	1.8	-23.78	-12.8	38.6	19.8	16.4	3.45	5.746		
1,100.0	1,098.9	1,098.1	1,096.4	2.0	2.1	-24.64	-17.4	48.8	21.8	18.0	3.81	5.713		
1,193.5	1,191.9	1,191.3	1,188.8	2.2	2.3	-25.65	-22.3	59.9	23.7	19.5	4.16	5.689		
1,200.0	1,198.3	1,197.7	1,195.2	2.2	2.3	-25.72	-22.6	60.7	23.8	19.6	4.19	5.688		
1,300.0	1,297.5	1,297.5	1,293.9	2.5	2.6	-26.27	-28.5	73.8	26.5	21.9	4.57	5.803		
1,400.0	1,396.8	1,397.5	1,392.8	2.7	2.9	-26.62	-34.5	87.1	29.3	24.4	4.95	5.920		
1,500.0	1,496.1	1,497.5	1,491.7	3.0	3.2	-26.91	-40.4	100.4	32.2	26.8	5.34	6.018		
1,600.0	1,595.3	1,597.4	1,590.6	3.2	3.5	-27.15	-46.4	113.7	35.0	29.2	5.73	6.099		
1,700.0	1,694.6	1,697.4	1,689.5	3.5	3.8	-27.36	-52.3	127.0	37.8	31.7	6.13	6.168		
1,800.0	1,793.9	1,797.3	1,788.4	3.8	4.1	-27.53	-58.3	140.3	40.6	34.1	6.52	6.228		
1,900.0	1,893.1	1,897.3	1,887.3	4.0	4.4	-27.69	-64.2	153.6	43.4	36.5	6.92	6.279		
2,000.0	1,992.4	1,997.3	1,986.2	4.3	4.7	-27.82	-70.2	166.9	46.3	39.0	7.32	6.324		
2,100.0	2,091.7	2,097.2	2,085.1	4.6	5.0	-27.94	-76.1	180.2	49.1	41.4	7.72	6.363		
2,200.0	2,190.9	2,197.2	2,184.0	4.8	5.3	-28.05	-82.1	193.5	51.9	43.8	8.12	6.397		
2,300.0	2,290.2	2,297.1	2,282.8	5.1	5.6	-28.14	-88.0	206.8	54.7	46.2	8.52	6.428		
2,400.0	2,389.5	2,397.1	2,381.7	5.4	5.9	-28.23	-94.0	220.1	57.6	48.7	8.92	6.456		
2,500.0	2,488.7	2,497.1	2,480.6	5.6	6.2	-28.31	-99.9	233.4	60.4	51.1	9.32	6.481		
2,600.0	2,588.0	2,597.0	2,579.5	5.9	6.5	-28.38	-105.8	246.7	63.2	53.5	9.72	6.503		
2,700.0	2,687.3	2,697.0	2,678.4	6.2	6.8	-28.44	-111.8	260.0	66.0	55.9	10.13	6.523		
2,800.0	2,786.6	2,796.9	2,777.3	6.5	7.1	-28.50	-117.7	273.3	68.9	58.3	10.53	6.542		
2,900.0	2,885.8	2,896.9	2,876.2	6.7	7.4	-28.56	-123.7	286.6	71.7	60.8	10.93	6.559		
3,000.0	2,985.1	2,996.9	2,975.1	7.0	7.7	-28.61	-129.6	299.9	74.5	63.2	11.34	6.574		
3,100.0	3,084.4	3,096.8	3,074.0	7.3	8.0	-28.66	-135.6	313.1	77.4	65.6	11.74	6.588		
3,200.0	3,183.6	3,196.8	3,172.9	7.5	8.3	-28.70	-141.5	326.4	80.2	68.0	12.15	6.602		
3,300.0	3,282.9	3,296.7	3,271.8	7.8	8.6	-28.74	-147.5	339.7	83.0	70.5	12.55	6.614		
3,400.0	3,382.2	3,396.7	3,370.7	8.1	9.0	-28.78	-153.4	353.0	85.8	72.9	12.96	6.625		
3,500.0	3,481.4	3,496.7	3,469.6	8.4	9.3	-28.82	-159.4	366.3	88.7	75.3	13.36	6.636		
3,600.0	3,580.7	3,596.6	3,568.5	8.6	9.6	-28.85	-165.3	379.6	91.5	77.7	13.77	6.645		
3,700.0	3,680.0	3,696.6	3,667.4	8.9	9.9	-28.88	-171.3	392.9	94.3	80.1	14.17	6.655		
3,800.0	3,779.2	3,796.5	3,766.2	9.2	10.2	-28.91	-177.2	406.2	97.1	82.6	14.58	6.663		
3,900.0	3,878.5	3,896.5	3,865.1	9.4	10.5	-28.94	-183.2	419.5	100.0	85.0	14.98	6.671		
4,000.0	3,977.8	3,996.5	3,964.0	9.7	10.8	-28.96	-189.1	432.8	102.8	87.4	15.39	6.679		
4,100.0	4,077.0	4,096.4	4,062.9	10.0	11.1	-28.99	-195.1	446.1	105.6	89.8	15.80	6.686		
4,200.0	4,176.3	4,196.4	4,161.8	10.3	11.4	-29.01	-201.0	459.4	108.4	92.2	16.20	6.693		
4,300.0	4,275.6	4,296.3	4,260.7	10.5	11.7	-29.04	-207.0	472.7	111.3	94.7	16.61	6.699		
4,400.0	4,374.8	4,396.3	4,359.6	10.8	12.0	-29.06	-212.9	486.0	114.1	97.1	17.02	6.705		
4,500.0	4,474.1	4,496.3	4,458.5	11.1	12.3	-29.08	-218.9	499.3	116.9	99.5	17.42	6.711		
4,600.0	4,573.4	4,596.2	4,557.4	11.4	12.7	-29.10	-224.8	512.6	119.7	101.9	17.83	6.716		
4,700.0	4,672.6	4,696.2	4,656.3	11.6	13.0	-29.12	-230.7	525.9	122.6	104.3	18.24	6.721		
4,800.0	4,771.9	4,796.1	4,755.2	11.9	13.3	-29.13	-236.7	539.2	125.4	106.8	18.64	6.726		
4,900.0	4,871.2	4,896.1	4,854.1	12.2	13.6	-29.15	-242.6	552.5	128.2	109.2	19.05	6.731		
5,000.0	4,970.5	4,996.1	4,953.0	12.4	13.9	-29.17	-248.6	565.8	131.0	111.6	19.46	6.735		

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 4R-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 4R-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 4S-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		
5,100.0	5,069.7	5,096.0	5,051.9	12.7	14.2	-29.18	-254.5	579.1	133.9	114.0	19.86	6.740		
5,200.0	5,169.0	5,196.0	5,150.8	13.0	14.5	-29.20	-260.5	592.4	136.7	116.4	20.27	6.744		
5,300.0	5,268.3	5,295.9	5,249.6	13.3	14.8	-29.21	-266.4	605.6	139.5	118.8	20.68	6.748		
5,400.0	5,367.5	5,395.9	5,348.5	13.5	15.1	-29.22	-272.4	618.9	142.4	121.3	21.09	6.751		
5,500.0	5,466.8	5,495.9	5,447.4	13.8	15.4	-29.24	-278.3	632.2	145.2	123.7	21.49	6.755		
5,600.0	5,566.1	5,595.8	5,546.3	14.1	15.7	-29.25	-284.3	645.5	148.0	126.1	21.90	6.758		
5,700.0	5,665.3	5,695.8	5,645.2	14.4	16.1	-29.26	-290.2	658.8	150.8	128.5	22.31	6.761		
5,800.0	5,764.6	5,795.7	5,744.1	14.6	16.4	-29.27	-296.2	672.1	153.7	130.9	22.71	6.765		
5,900.0	5,863.9	5,895.7	5,843.0	14.9	16.7	-29.29	-302.1	685.4	156.5	133.4	23.12	6.768		
6,000.0	5,963.1	5,995.7	5,941.9	15.2	17.0	-29.30	-308.1	698.7	159.3	135.8	23.53	6.771		
6,100.0	6,062.4	6,095.6	6,040.8	15.5	17.3	-29.31	-314.0	712.0	162.1	138.2	23.94	6.773		
6,200.0	6,161.7	6,195.6	6,139.7	15.7	17.6	-29.32	-320.0	725.3	165.0	140.6	24.34	6.776		
6,300.0	6,260.9	6,295.5	6,238.6	16.0	17.9	-29.33	-325.9	738.6	167.8	143.0	24.75	6.779		
6,400.0	6,360.2	6,395.5	6,337.5	16.3	18.2	-29.34	-331.9	751.9	170.6	145.5	25.16	6.781		
6,500.0	6,459.5	6,495.5	6,436.4	16.6	18.5	-29.35	-337.8	765.2	173.4	147.9	25.57	6.784		
6,600.0	6,558.7	6,595.4	6,535.3	16.8	18.8	-29.35	-343.8	778.5	176.3	150.3	25.98	6.786		
6,700.0	6,658.0	6,695.4	6,634.2	17.1	19.2	-29.36	-349.7	791.8	179.1	152.7	26.38	6.788		
6,787.9	6,745.2	6,783.2	6,721.0	17.3	19.4	-29.37	-354.9	803.5	181.6	154.8	26.74	6.790		
6,800.0	6,757.3	6,795.3	6,733.0	17.4	19.5	-21.94	-355.6	805.1	181.9	155.1	26.78	6.792		
6,850.0	6,807.0	6,845.3	6,782.6	17.5	19.6	14.86	-357.8	811.7	183.3	156.5	26.83	6.835		
6,900.0	6,856.6	6,895.5	6,832.2	17.6	19.7	43.43	-356.6	818.4	184.8	158.0	26.81	6.894		
6,950.0	6,905.9	6,945.8	6,881.8	17.6	19.8	58.94	-351.8	825.1	186.2	159.5	26.74	6.963		
7,000.0	6,954.6	6,996.2	6,931.1	17.7	19.9	67.60	-343.6	831.7	187.7	161.0	26.65	7.042		
7,050.0	7,002.5	7,046.7	6,979.8	17.7	20.0	72.99	-331.8	838.3	189.1	162.6	26.54	7.127		
7,100.0	7,049.3	7,097.4	7,027.7	17.7	20.0	76.66	-316.5	844.7	190.6	164.1	26.41	7.216		
7,150.0	7,094.9	7,148.2	7,074.5	17.7	20.1	79.34	-297.9	851.0	192.0	165.7	26.27	7.306		
7,200.0	7,139.0	7,199.1	7,120.0	17.8	20.1	81.38	-275.8	857.1	193.3	167.2	26.15	7.393		
7,250.0	7,181.4	7,250.1	7,163.9	17.7	20.1	82.99	-250.5	863.0	194.7	168.6	26.04	7.475		
7,300.0	7,221.8	7,301.3	7,206.0	17.7	20.2	84.31	-222.1	868.7	195.9	170.0	25.97	7.546		
7,350.0	7,260.1	7,352.6	7,246.1	17.8	20.2	85.39	-190.6	874.1	197.2	171.2	25.93	7.603		
7,400.0	7,296.2	7,404.0	7,283.9	17.8	20.2	86.30	-156.2	879.1	198.3	172.4	25.94	7.644		
7,450.0	7,329.7	7,455.4	7,319.3	17.8	20.3	87.07	-119.1	883.9	199.4	173.4	26.01	7.665		
7,500.0	7,360.6	7,507.0	7,351.9	17.9	20.3	87.72	-79.4	888.3	200.4	174.2	26.15	7.664		
7,550.0	7,388.8	7,558.7	7,381.7	17.9	20.4	88.26	-37.4	892.3	201.3	174.9	26.36	7.637		
7,600.0	7,414.0	7,610.4	7,408.5	18.0	20.5	88.72	6.7	895.9	202.1	175.5	26.63	7.591		
7,650.0	7,436.1	7,662.2	7,432.1	18.2	20.7	89.10	52.7	899.1	202.8	175.9	26.98	7.518		
7,700.0	7,455.1	7,714.1	7,452.3	18.4	20.8	89.41	100.3	901.8	203.5	176.0	27.42	7.421		
7,750.0	7,470.8	7,766.0	7,469.1	18.6	21.0	89.65	149.4	904.0	204.0	176.1	27.93	7.304		
7,800.0	7,483.2	7,817.9	7,482.3	18.8	21.2	89.82	199.6	905.8	204.4	175.9	28.51	7.169		
7,850.0	7,492.3	7,869.9	7,491.9	19.1	21.5	89.94	250.6	907.1	204.7	175.5	29.16	7.018		
7,900.0	7,497.9	7,921.9	7,497.8	19.4	21.8	90.00	302.3	907.9	204.8	175.0	29.88	6.854		
7,950.0	7,500.0	7,973.8	7,500.0	19.7	22.1	90.00	354.2	908.2	204.9	174.2	30.66	6.682		
7,955.7	7,500.0	7,979.7	7,500.0	19.7	22.1	90.00	360.0	908.2	204.9	174.1	30.76	6.662		
8,000.0	7,500.0	8,024.0	7,500.0	20.1	22.4	90.00	404.3	908.2	204.9	173.3	31.61	6.482		
8,100.0	7,500.0	8,124.0	7,500.0	20.9	23.1	90.00	504.3	908.2	204.9	171.2	33.69	6.082		
8,200.0	7,500.0	8,224.0	7,500.0	21.8	24.0	90.00	604.3	908.2	204.9	168.9	35.99	5.693		
8,300.0	7,500.0	8,324.0	7,500.0	22.9	24.9	90.00	704.3	908.2	204.9	166.4	38.48	5.325		
8,400.0	7,500.0	8,424.0	7,500.0	24.0	26.0	90.00	804.3	908.2	204.9	163.8	41.11	4.984		
8,495.7	7,500.0	8,519.7	7,500.0	25.1	27.0	90.00	900.0	908.2	204.9	161.1	43.75	4.684		
8,500.0	7,500.0	8,524.0	7,500.0	25.2	27.1	90.00	904.3	908.2	204.9	161.0	43.87	4.671		
8,600.0	7,500.0	8,624.0	7,500.0	26.4	28.2	90.00	1,004.3	908.2	204.9	158.2	46.73	4.385		
8,700.0	7,500.0	8,724.0	7,500.0	27.7	29.5	90.00	1,104.3	908.2	204.9	155.2	49.67	4.125		

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 4R-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 4R-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 4S-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,800.0	7,500.0	8,824.0	7,500.0	29.1	30.7	90.00	1,204.3	908.2	204.9	152.2	52.68	3.889		
8,900.0	7,500.0	8,924.0	7,500.0	30.5	32.1	90.00	1,304.3	908.2	204.9	149.1	55.75	3.675		
9,000.0	7,500.0	9,024.0	7,500.0	31.9	33.4	90.00	1,404.3	908.2	204.9	146.0	58.87	3.481		
9,100.0	7,500.0	9,124.0	7,500.0	33.4	34.8	90.00	1,504.3	908.2	204.9	142.9	62.03	3.303		
9,200.0	7,500.0	9,224.0	7,500.0	34.9	36.2	90.00	1,604.3	908.2	204.9	139.7	65.22	3.141		
9,300.0	7,500.0	9,324.0	7,500.0	36.4	37.7	90.00	1,704.3	908.2	204.9	136.4	68.45	2.993		
9,400.0	7,500.0	9,424.0	7,500.0	37.9	39.2	90.00	1,804.3	908.2	204.9	133.2	71.70	2.858		
9,500.0	7,500.0	9,524.0	7,500.0	39.5	40.7	90.00	1,904.3	908.2	204.9	129.9	74.98	2.733		
9,600.0	7,500.0	9,624.0	7,500.0	41.0	42.2	90.00	2,004.3	908.2	204.9	126.6	78.27	2.618		
9,700.0	7,500.0	9,724.0	7,500.0	42.6	43.8	90.00	2,104.3	908.2	204.9	123.3	81.59	2.511		
9,800.0	7,500.0	9,824.0	7,500.0	44.2	45.3	90.00	2,204.3	908.2	204.9	120.0	84.92	2.413		
9,900.0	7,500.0	9,924.0	7,500.0	45.8	46.9	90.00	2,304.3	908.2	204.9	116.6	88.26	2.321		
10,000.0	7,500.0	10,024.0	7,500.0	47.4	48.5	90.00	2,404.3	908.2	204.9	113.3	91.62	2.236		
10,100.0	7,500.0	10,124.0	7,500.0	49.1	50.1	90.00	2,504.3	908.2	204.9	109.9	94.98	2.157		
10,200.0	7,500.0	10,224.0	7,500.0	50.7	51.7	90.00	2,604.3	908.2	204.9	106.5	98.36	2.083		
10,300.0	7,500.0	10,324.0	7,500.0	52.3	53.3	90.00	2,704.3	908.2	204.9	103.1	101.74	2.014		
10,400.0	7,500.0	10,424.0	7,500.0	54.0	54.9	90.00	2,804.3	908.2	204.9	99.8	105.14	1.949		
10,500.0	7,500.0	10,524.0	7,500.0	55.7	56.5	90.00	2,904.3	908.2	204.9	96.4	108.54	1.888		
10,600.0	7,500.0	10,624.0	7,500.0	57.3	58.2	90.00	3,004.3	908.2	204.9	92.9	111.95	1.830		
10,700.0	7,500.0	10,724.0	7,500.0	59.0	59.8	90.00	3,104.3	908.2	204.9	89.5	115.36	1.776		
10,800.0	7,500.0	10,824.0	7,500.0	60.7	61.5	90.00	3,204.3	908.2	204.9	86.1	118.78	1.725		
10,900.0	7,500.0	10,924.0	7,500.0	62.3	63.1	90.00	3,304.3	908.2	204.9	82.7	122.20	1.677		
11,000.0	7,500.0	11,024.0	7,500.0	64.0	64.8	90.00	3,404.3	908.2	204.9	79.3	125.63	1.631		
11,100.0	7,500.0	11,124.0	7,500.0	65.7	66.4	90.00	3,504.3	908.2	204.9	75.8	129.06	1.588		
11,200.0	7,500.0	11,224.0	7,500.0	67.4	68.1	90.00	3,604.3	908.2	204.9	72.4	132.50	1.546		
11,300.0	7,500.0	11,324.0	7,500.0	69.1	69.8	90.00	3,704.3	908.2	204.9	68.9	135.94	1.507		
11,345.7	7,500.0	11,369.7	7,500.0	69.9	70.6	90.00	3,750.0	908.2	204.9	67.4	137.51	1.490 Level 3		
11,400.0	7,500.0	11,424.0	7,500.0	70.8	71.5	90.00	3,804.3	908.2	204.4	65.1	139.38	1.467 Level 3		
11,500.0	7,500.0	11,523.9	7,500.0	72.5	73.1	90.00	3,904.3	908.2	201.2	58.4	142.83	1.409 Level 3		
11,600.0	7,500.0	11,623.7	7,500.0	74.2	74.8	90.00	4,004.1	908.2	195.0	48.7	146.27	1.333 Level 3		
11,700.0	7,500.0	11,723.3	7,500.0	75.9	76.5	90.00	4,103.6	908.2	185.7	35.9	149.70	1.240 Level 2		
11,800.0	7,500.0	11,822.5	7,500.0	77.7	78.2	90.00	4,202.9	908.2	173.3	20.1	153.13	1.132 Level 2		
11,828.3	7,500.0	11,850.5	7,500.0	78.2	78.7	90.00	4,230.9	908.2	169.2	15.1	154.10	1.098 Level 2		
11,857.5	7,500.0	11,878.1	7,500.0	78.7	79.1	90.00	4,258.4	908.2	164.9	9.6	155.30	1.062 Level 2, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4T-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	89.83	0.1	20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.83	0.1	20.1	20.1	19.8	0.30	67.895		
200.0	200.0	200.0	200.0	0.3	0.3	89.83	0.1	20.1	20.1	19.5	0.65	31.195		
300.0	300.0	300.0	300.0	0.5	0.5	89.83	0.1	20.1	20.1	19.1	0.99	20.249		
303.4	303.4	303.4	303.4	0.5	0.5	89.83	0.1	20.1	20.1	19.1	1.01	20.013 CC		
400.0	400.0	399.8	399.8	0.7	0.7	90.03	0.0	20.4	20.4	19.0	1.34	15.147 ES		
500.0	500.0	499.5	499.5	0.8	0.8	91.45	-0.6	22.0	22.0	20.3	1.69	13.008		
600.0	600.0	599.0	599.0	1.0	1.0	-26.79	-1.6	25.3	24.6	22.5	2.04	12.045		
700.0	700.0	698.6	698.4	1.2	1.2	-26.33	-3.3	30.2	27.3	24.9	2.39	11.412		
800.0	799.9	798.1	797.6	1.4	1.4	-26.55	-5.5	36.8	30.1	27.3	2.74	10.975		
900.0	899.7	897.5	896.7	1.6	1.6	-27.29	-8.2	44.9	33.0	29.9	3.09	10.663		
1,000.0	999.4	996.9	995.5	1.8	1.9	-28.42	-11.5	54.8	36.0	32.6	3.45	10.433		
1,100.0	1,098.9	1,096.2	1,094.1	2.0	2.1	-29.82	-15.3	66.2	39.2	35.4	3.82	10.258		
1,193.5	1,191.9	1,189.1	1,186.1	2.2	2.4	-31.31	-19.3	78.3	42.3	38.1	4.18	10.124		
1,200.0	1,198.3	1,195.5	1,192.4	2.2	2.4	-31.42	-19.6	79.2	42.5	38.3	4.21	10.117		
1,300.0	1,297.5	1,294.6	1,290.4	2.5	2.7	-32.53	-24.5	93.9	46.9	42.3	4.60	10.197		
1,400.0	1,396.8	1,393.7	1,387.9	2.7	3.0	-32.74	-29.9	110.1	52.8	47.9	4.99	10.587		
1,500.0	1,496.1	1,492.9	1,485.3	3.0	3.4	-32.36	-35.7	127.8	60.3	54.9	5.38	11.195		
1,600.0	1,595.3	1,592.6	1,583.2	3.2	3.7	-31.97	-41.8	145.9	68.0	62.2	5.78	11.757		
1,700.0	1,694.6	1,692.3	1,681.1	3.5	4.1	-31.66	-47.8	163.9	75.6	69.5	6.18	12.246		
1,800.0	1,793.9	1,792.0	1,778.9	3.8	4.4	-31.41	-53.8	182.0	83.3	76.8	6.58	12.673		
1,900.0	1,893.1	1,891.7	1,876.8	4.0	4.8	-31.20	-59.8	200.1	91.0	84.1	6.98	13.051		
2,000.0	1,992.4	1,991.4	1,974.7	4.3	5.2	-31.02	-65.8	218.1	98.7	91.4	7.38	13.387		
2,100.0	2,091.7	2,091.1	2,072.5	4.6	5.5	-30.87	-71.8	236.2	106.4	98.7	7.78	13.687		
2,200.0	2,190.9	2,190.8	2,170.4	4.8	5.9	-30.74	-77.8	254.3	114.1	105.9	8.18	13.957		
2,300.0	2,290.2	2,290.5	2,268.3	5.1	6.3	-30.63	-83.8	272.3	121.8	113.2	8.58	14.202		
2,400.0	2,389.5	2,390.2	2,366.1	5.4	6.6	-30.53	-89.8	290.4	129.5	120.5	8.98	14.424		
2,500.0	2,488.7	2,489.9	2,464.0	5.6	7.0	-30.44	-95.8	308.5	137.2	127.8	9.38	14.626		
2,600.0	2,588.0	2,589.6	2,561.9	5.9	7.4	-30.36	-101.8	326.5	144.9	135.1	9.78	14.812		
2,700.0	2,687.3	2,689.3	2,659.8	6.2	7.8	-30.29	-107.9	344.6	152.6	142.4	10.19	14.982		
2,800.0	2,786.6	2,789.0	2,757.6	6.5	8.1	-30.22	-113.9	362.7	160.3	149.7	10.59	15.140		
2,900.0	2,885.8	2,888.7	2,855.5	6.7	8.5	-30.16	-119.9	380.8	168.0	157.0	10.99	15.285		
3,000.0	2,985.1	2,988.4	2,953.4	7.0	8.9	-30.11	-125.9	398.8	175.7	164.3	11.40	15.420		
3,100.0	3,084.4	3,088.1	3,051.2	7.3	9.3	-30.06	-131.9	416.9	183.4	171.6	11.80	15.546		
3,200.0	3,183.6	3,187.8	3,149.1	7.5	9.6	-30.01	-137.9	435.0	191.1	178.9	12.20	15.663		
3,300.0	3,282.9	3,287.5	3,247.0	7.8	10.0	-29.97	-143.9	453.0	198.8	186.2	12.61	15.773		
3,400.0	3,382.2	3,387.2	3,344.8	8.1	10.4	-29.93	-149.9	471.1	206.5	193.5	13.01	15.875		
3,500.0	3,481.4	3,486.9	3,442.7	8.4	10.8	-29.90	-155.9	489.2	214.2	200.8	13.41	15.972		
3,600.0	3,580.7	3,586.6	3,540.6	8.6	11.2	-29.87	-161.9	507.2	221.9	208.1	13.82	16.062		
3,700.0	3,680.0	3,686.3	3,638.4	8.9	11.5	-29.83	-168.0	525.3	229.6	215.4	14.22	16.148		
3,800.0	3,779.2	3,786.0	3,736.3	9.2	11.9	-29.81	-174.0	543.4	237.3	222.7	14.62	16.228		
3,900.0	3,878.5	3,885.7	3,834.2	9.4	12.3	-29.78	-180.0	561.4	245.0	230.0	15.03	16.305		
4,000.0	3,977.8	3,985.4	3,932.0	9.7	12.7	-29.75	-186.0	579.5	252.7	237.3	15.43	16.377		
4,100.0	4,077.0	4,085.1	4,029.9	10.0	13.0	-29.73	-192.0	597.6	260.4	244.6	15.84	16.445		
4,200.0	4,176.3	4,184.9	4,127.8	10.3	13.4	-29.71	-198.0	615.6	268.1	251.9	16.24	16.510		
4,300.0	4,275.6	4,284.6	4,225.6	10.5	13.8	-29.68	-204.0	633.7	275.8	259.2	16.64	16.572		
4,400.0	4,374.8	4,384.3	4,323.5	10.8	14.2	-29.66	-210.0	651.8	283.5	266.5	17.05	16.631		
4,500.0	4,474.1	4,484.0	4,421.4	11.1	14.6	-29.64	-216.0	669.8	291.2	273.8	17.45	16.687		
4,600.0	4,573.4	4,583.7	4,519.2	11.4	14.9	-29.63	-222.0	687.9	298.9	281.1	17.86	16.740		
4,700.0	4,672.6	4,683.4	4,617.1	11.6	15.3	-29.61	-228.0	706.0	306.6	288.4	18.26	16.791		
4,800.0	4,771.9	4,783.1	4,715.0	11.9	15.7	-29.59	-234.1	724.0	314.3	295.7	18.67	16.840		
4,900.0	4,871.2	4,882.8	4,812.8	12.2	16.1	-29.58	-240.1	742.1	322.0	303.0	19.07	16.887		

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 4R-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 4R-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 4T-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							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	4,970.5	4,982.5	4,910.7	12.4	16.4	-29.56	-246.1	760.2	329.7	310.3	19.48	16.932		
5,100.0	5,069.7	5,082.2	5,008.6	12.7	16.8	-29.55	-252.1	778.2	337.5	317.6	19.88	16.974		
5,200.0	5,169.0	5,181.9	5,106.4	13.0	17.2	-29.53	-258.1	796.3	345.2	324.9	20.28	17.016		
5,300.0	5,268.3	5,281.6	5,204.3	13.3	17.6	-29.52	-264.1	814.4	352.9	332.2	20.69	17.055		
5,400.0	5,367.5	5,381.3	5,302.2	13.5	18.0	-29.51	-270.1	832.4	360.6	339.5	21.09	17.093		
5,500.0	5,466.8	5,481.0	5,400.1	13.8	18.3	-29.50	-276.1	850.5	368.3	346.8	21.50	17.130		
5,600.0	5,566.1	5,580.7	5,497.9	14.1	18.7	-29.49	-282.1	868.6	376.0	354.1	21.90	17.165		
5,700.0	5,665.3	5,680.4	5,595.8	14.4	19.1	-29.47	-288.1	886.6	383.7	361.4	22.31	17.199		
5,800.0	5,764.6	5,780.1	5,693.7	14.6	19.5	-29.46	-294.1	904.7	391.4	368.7	22.71	17.231		
5,900.0	5,863.9	5,879.8	5,791.5	14.9	19.9	-29.45	-300.2	922.8	399.1	375.9	23.12	17.263		
6,000.0	5,963.1	5,979.5	5,889.4	15.2	20.2	-29.44	-306.2	940.9	406.8	383.2	23.52	17.293		
6,100.0	6,062.4	6,079.2	5,987.3	15.5	20.6	-29.43	-312.2	958.9	414.5	390.5	23.93	17.323		
6,200.0	6,161.7	6,178.9	6,085.1	15.7	21.0	-29.43	-318.2	977.0	422.2	397.8	24.33	17.351		
6,300.0	6,260.9	6,278.6	6,183.0	16.0	21.4	-29.42	-324.2	995.1	429.9	405.1	24.74	17.379		
6,400.0	6,360.2	6,378.3	6,280.9	16.3	21.8	-29.41	-330.2	1,013.1	437.6	412.4	25.14	17.405		
6,500.0	6,459.5	6,478.0	6,378.7	16.6	22.1	-29.40	-336.2	1,031.2	445.3	419.7	25.55	17.431		
6,600.0	6,558.7	6,577.7	6,476.6	16.8	22.5	-29.39	-342.2	1,049.3	453.0	427.0	25.95	17.456		
6,700.0	6,658.0	6,677.4	6,574.5	17.1	22.9	-29.38	-348.2	1,067.3	460.7	434.3	26.35	17.480		
6,787.9	6,745.2	6,765.0	6,660.4	17.3	23.2	-29.38	-353.5	1,083.2	467.4	440.7	26.71	17.501		
6,800.0	6,757.3	6,777.1	6,672.3	17.4	23.3	-22.01	-354.2	1,085.4	468.4	441.6	26.75	17.506		
6,850.0	6,807.0	6,826.9	6,721.2	17.5	23.5	14.36	-357.2	1,094.4	472.2	445.4	26.85	17.591		
6,900.0	6,856.6	6,876.5	6,769.9	17.6	23.6	42.87	-360.0	1,103.4	476.1	449.3	26.81	17.761		
6,950.0	6,905.9	6,926.7	6,819.2	17.6	23.8	58.39	-360.1	1,112.5	480.1	453.4	26.71	17.977		
7,000.0	6,954.6	6,977.3	6,868.9	17.7	24.0	67.08	-356.6	1,121.7	484.1	457.5	26.58	18.215		
7,050.0	7,002.5	7,028.4	6,918.7	17.7	24.1	72.50	-349.5	1,130.9	488.2	461.7	26.43	18.468		
7,100.0	7,049.3	7,080.1	6,968.3	17.7	24.2	76.20	-338.7	1,140.0	492.2	465.9	26.28	18.727		
7,150.0	7,094.9	7,132.2	7,017.5	17.7	24.3	78.91	-324.1	1,149.1	496.2	470.0	26.14	18.983		
7,200.0	7,139.0	7,184.9	7,066.0	17.8	24.4	80.98	-305.7	1,158.1	500.1	474.1	26.01	19.226		
7,250.0	7,181.4	7,238.0	7,113.5	17.7	24.5	82.64	-283.5	1,166.8	504.0	478.1	25.92	19.447		
7,300.0	7,221.8	7,291.7	7,159.7	17.7	24.6	83.99	-257.4	1,175.4	507.7	481.9	25.86	19.635		
7,350.0	7,260.1	7,345.9	7,204.2	17.8	24.7	85.11	-227.7	1,183.6	511.3	485.5	25.85	19.782		
7,400.0	7,296.2	7,400.6	7,246.8	17.8	24.8	86.06	-194.3	1,191.5	514.8	488.9	25.89	19.881		
7,450.0	7,329.7	7,455.8	7,287.1	17.8	24.8	86.86	-157.4	1,198.9	518.0	492.0	26.00	19.922		
7,500.0	7,360.6	7,511.4	7,324.8	17.9	24.9	87.55	-117.1	1,205.8	521.1	494.9	26.18	19.904		
7,550.0	7,388.8	7,567.5	7,359.5	17.9	25.0	88.13	-73.5	1,212.3	523.9	497.4	26.43	19.824		
7,600.0	7,414.0	7,623.9	7,391.0	18.0	25.1	88.62	-27.1	1,218.1	526.4	499.6	26.75	19.675		
7,650.0	7,436.1	7,680.7	7,418.9	18.2	25.3	89.03	22.1	1,223.2	528.6	501.5	27.10	19.503		
7,700.0	7,455.1	7,737.9	7,443.1	18.4	25.4	89.36	73.6	1,227.7	530.5	502.9	27.56	19.252		
7,750.0	7,470.8	7,795.2	7,463.2	18.6	25.6	89.62	127.2	1,231.4	532.1	504.0	28.07	18.957		
7,800.0	7,483.2	7,852.8	7,479.1	18.8	25.8	89.81	182.5	1,234.3	533.3	504.7	28.64	18.620		
7,850.0	7,492.3	7,910.5	7,490.6	19.1	26.0	89.94	239.0	1,236.5	534.2	504.9	29.28	18.245		
7,900.0	7,497.9	7,968.3	7,497.6	19.4	26.3	90.00	296.3	1,237.7	534.7	504.8	29.97	17.841		
7,950.0	7,500.0	8,026.2	7,500.0	19.7	26.6	90.00	354.1	1,238.2	534.9	504.2	30.71	17.418		
7,955.7	7,500.0	8,032.1	7,500.0	19.7	26.6	90.00	360.0	1,238.2	534.9	504.1	30.81	17.361		
8,000.0	7,500.0	8,076.4	7,500.0	20.1	26.8	90.00	404.3	1,238.2	534.9	503.2	31.66	16.897		
8,100.0	7,500.0	8,176.4	7,500.0	20.9	27.5	90.00	504.3	1,238.2	534.9	501.2	33.74	15.854		
8,200.0	7,500.0	8,276.4	7,500.0	21.8	28.2	90.00	604.3	1,238.2	534.9	498.9	36.04	14.842		
8,300.0	7,500.0	8,376.4	7,500.0	22.9	29.0	90.00	704.3	1,238.2	534.9	496.4	38.52	13.885		
8,400.0	7,500.0	8,476.4	7,500.0	24.0	29.9	90.00	804.3	1,238.2	534.9	493.7	41.15	12.997		
8,495.7	7,500.0	8,572.1	7,500.0	25.1	30.8	90.00	900.0	1,238.2	534.9	491.1	43.79	12.215		
8,500.0	7,500.0	8,576.4	7,500.0	25.2	30.8	90.00	904.3	1,238.2	534.9	491.0	43.91	12.182		
8,600.0	7,500.0	8,676.4	7,500.0	26.4	31.8	90.00	1,004.3	1,238.2	534.9	488.1	46.77	11.438		

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 4R-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 4R-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 4T-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		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
8,700.0	7,500.0	8,776.4	7,500.0	27.7	32.9	90.00	1,104.3	1,238.2	534.9	485.2	49.71	10.761		
8,800.0	7,500.0	8,876.4	7,500.0	29.1	34.1	90.00	1,204.3	1,238.2	534.9	482.2	52.72	10.147		
8,900.0	7,500.0	8,976.4	7,500.0	30.5	35.3	90.00	1,304.3	1,238.2	534.9	479.1	55.78	9.589		
9,000.0	7,500.0	9,076.4	7,500.0	31.9	36.5	90.00	1,404.3	1,238.2	534.9	476.0	58.90	9.081		
9,100.0	7,500.0	9,176.4	7,500.0	33.4	37.8	90.00	1,504.3	1,238.2	534.9	472.8	62.06	8.619		
9,200.0	7,500.0	9,276.4	7,500.0	34.9	39.1	90.00	1,604.3	1,238.2	534.9	469.6	65.25	8.197		
9,300.0	7,500.0	9,376.4	7,500.0	36.4	40.4	90.00	1,704.3	1,238.2	534.9	466.4	68.48	7.811		
9,400.0	7,500.0	9,476.4	7,500.0	37.9	41.8	90.00	1,804.3	1,238.2	534.9	463.2	71.73	7.457		
9,500.0	7,500.0	9,576.4	7,500.0	39.5	43.2	90.00	1,904.3	1,238.2	534.9	459.9	75.01	7.131		
9,600.0	7,500.0	9,676.4	7,500.0	41.0	44.7	90.00	2,004.3	1,238.2	534.9	456.6	78.30	6.831		
9,700.0	7,500.0	9,776.4	7,500.0	42.6	46.1	90.00	2,104.3	1,238.2	534.9	453.3	81.61	6.554		
9,800.0	7,500.0	9,876.4	7,500.0	44.2	47.6	90.00	2,204.3	1,238.2	534.9	449.9	84.94	6.297		
9,900.0	7,500.0	9,976.4	7,500.0	45.8	49.1	90.00	2,304.3	1,238.2	534.9	446.6	88.29	6.059		
10,000.0	7,500.0	10,076.4	7,500.0	47.4	50.6	90.00	2,404.3	1,238.2	534.9	443.3	91.64	5.837		
10,100.0	7,500.0	10,176.4	7,500.0	49.1	52.1	90.00	2,504.3	1,238.2	534.9	439.9	95.01	5.630		
10,200.0	7,500.0	10,276.4	7,500.0	50.7	53.7	90.00	2,604.3	1,238.2	534.9	436.5	98.38	5.437		
10,300.0	7,500.0	10,376.4	7,500.0	52.3	55.2	90.00	2,704.3	1,238.2	534.9	433.1	101.77	5.256		
10,400.0	7,500.0	10,476.4	7,500.0	54.0	56.8	90.00	2,804.3	1,238.2	534.9	429.7	105.16	5.086		
10,500.0	7,500.0	10,576.4	7,500.0	55.7	58.4	90.00	2,904.3	1,238.2	534.9	426.3	108.56	4.927		
10,600.0	7,500.0	10,676.4	7,500.0	57.3	60.0	90.00	3,004.3	1,238.2	534.9	422.9	111.97	4.777		
10,700.0	7,500.0	10,776.4	7,500.0	59.0	61.6	90.00	3,104.3	1,238.2	534.9	419.5	115.38	4.636		
10,800.0	7,500.0	10,876.4	7,500.0	60.7	63.2	90.00	3,204.3	1,238.2	534.9	416.1	118.80	4.502		
10,900.0	7,500.0	10,976.4	7,500.0	62.3	64.8	90.00	3,304.3	1,238.2	534.9	412.7	122.22	4.376		
11,000.0	7,500.0	11,076.4	7,500.0	64.0	66.4	90.00	3,404.3	1,238.2	534.9	409.2	125.65	4.257		
11,100.0	7,500.0	11,176.4	7,500.0	65.7	68.0	90.00	3,504.3	1,238.2	534.9	405.8	129.08	4.144		
11,200.0	7,500.0	11,276.4	7,500.0	67.4	69.7	90.00	3,604.3	1,238.2	534.9	402.4	132.52	4.036		
11,300.0	7,500.0	11,376.4	7,500.0	69.1	71.3	90.00	3,704.3	1,238.2	534.9	398.9	135.96	3.934		
11,345.7	7,500.0	11,422.1	7,500.0	69.9	72.0	90.00	3,750.0	1,238.2	534.9	397.4	137.53	3.889		
11,400.0	7,500.0	11,476.4	7,500.0	70.8	72.9	90.00	3,804.3	1,238.2	534.4	395.0	139.40	3.834		
11,500.0	7,500.0	11,576.4	7,500.0	72.5	74.6	90.00	3,904.3	1,238.2	531.2	388.4	142.85	3.719		
11,600.0	7,500.0	11,676.1	7,500.0	74.2	76.2	90.00	4,004.1	1,238.2	525.0	378.7	146.29	3.589		
11,700.0	7,500.0	11,775.7	7,500.0	75.9	77.9	90.00	4,103.6	1,238.2	515.7	365.9	149.72	3.444		
11,800.0	7,500.0	11,874.9	7,500.0	77.7	79.5	90.00	4,202.9	1,238.2	503.3	350.1	153.15	3.286		
11,828.3	7,500.0	11,902.9	7,500.0	78.2	80.0	90.00	4,230.9	1,238.2	499.2	345.1	154.12	3.239		
11,857.5	7,500.0	11,927.8	7,500.0	78.7	80.4	90.00	4,255.7	1,238.2	494.9	339.6	155.32	3.187 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4U-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.64	-0.3	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.64	-0.3	29.9	29.9	29.6	0.30	100.905		
200.0	200.0	200.0	200.0	0.3	0.3	90.64	-0.3	29.9	29.9	29.3	0.65	46.362		
300.0	300.0	300.0	300.0	0.5	0.5	90.64	-0.3	29.9	29.9	28.9	0.99	30.094 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	91.08	-0.6	30.8	30.8	29.4	1.34	22.916		
500.0	500.0	498.9	498.9	0.8	0.8	92.26	-1.3	33.2	33.3	31.6	1.69	19.690		
600.0	600.0	598.3	598.1	1.0	1.0	-26.34	-2.5	37.4	36.7	34.7	2.04	18.017		
700.0	700.0	697.6	697.2	1.2	1.2	-26.01	-4.2	43.2	40.3	37.9	2.39	16.883		
800.0	799.9	796.8	796.2	1.4	1.4	-26.23	-6.4	50.6	44.0	41.2	2.74	16.072		
900.0	899.7	895.9	894.9	1.6	1.7	-26.86	-9.1	59.6	47.8	44.7	3.09	15.471		
1,000.0	999.4	995.0	993.3	1.8	1.9	-27.81	-12.3	70.3	51.7	48.3	3.45	15.008		
1,100.0	1,098.9	1,094.0	1,091.5	2.0	2.2	-29.00	-15.9	82.6	55.8	52.0	3.81	14.638		
1,193.5	1,191.9	1,186.6	1,183.1	2.2	2.4	-30.27	-19.7	95.6	59.8	55.6	4.17	14.348		
1,200.0	1,198.3	1,193.0	1,189.4	2.2	2.5	-30.37	-20.0	96.5	60.1	55.9	4.19	14.331		
1,300.0	1,297.5	1,291.8	1,286.8	2.5	2.8	-31.45	-24.6	112.0	65.4	60.8	4.58	14.269		
1,400.0	1,396.8	1,390.4	1,383.9	2.7	3.1	-31.91	-29.7	129.1	72.3	67.3	4.97	14.540		
1,500.0	1,496.1	1,488.8	1,480.3	3.0	3.5	-31.90	-35.2	147.8	80.8	75.5	5.36	15.077		
1,600.0	1,595.3	1,587.8	1,577.1	3.2	3.9	-31.61	-41.1	167.8	90.7	84.9	5.75	15.762		
1,700.0	1,694.6	1,687.3	1,674.3	3.5	4.3	-31.35	-47.1	188.1	100.7	94.5	6.15	16.368		
1,800.0	1,793.9	1,786.8	1,771.5	3.8	4.7	-31.14	-53.1	208.4	110.7	104.1	6.55	16.897		
1,900.0	1,893.1	1,886.3	1,868.7	4.0	5.0	-30.96	-59.1	228.7	120.7	113.7	6.95	17.364		
2,000.0	1,992.4	1,985.8	1,966.0	4.3	5.4	-30.81	-65.1	249.0	130.6	123.3	7.35	17.779		
2,100.0	2,091.7	2,085.3	2,063.2	4.6	5.9	-30.68	-71.1	269.2	140.6	132.9	7.75	18.150		
2,200.0	2,190.9	2,184.8	2,160.4	4.8	6.3	-30.57	-77.1	289.5	150.6	142.5	8.15	18.483		
2,300.0	2,290.2	2,284.3	2,257.6	5.1	6.7	-30.47	-83.1	309.8	160.6	152.1	8.55	18.785		
2,400.0	2,389.5	2,383.8	2,354.9	5.4	7.1	-30.38	-89.1	330.1	170.6	161.7	8.95	19.058		
2,500.0	2,488.7	2,483.3	2,452.1	5.6	7.5	-30.31	-95.1	350.3	180.6	171.3	9.35	19.308		
2,600.0	2,588.0	2,582.8	2,549.3	5.9	7.9	-30.24	-101.1	370.6	190.6	180.8	9.76	19.536		
2,700.0	2,687.3	2,682.3	2,646.6	6.2	8.3	-30.18	-107.1	390.9	200.6	190.4	10.16	19.746		
2,800.0	2,786.6	2,781.8	2,743.8	6.5	8.7	-30.12	-113.1	411.2	210.6	200.0	10.56	19.940		
2,900.0	2,885.8	2,881.3	2,841.0	6.7	9.1	-30.07	-119.1	431.5	220.6	209.6	10.96	20.119		
3,000.0	2,985.1	2,980.8	2,938.2	7.0	9.5	-30.02	-125.1	451.7	230.6	219.2	11.37	20.285		
3,100.0	3,084.4	3,080.3	3,035.5	7.3	9.9	-29.98	-131.1	472.0	240.6	228.8	11.77	20.440		
3,200.0	3,183.6	3,179.8	3,132.7	7.5	10.3	-29.94	-137.1	492.3	250.6	238.4	12.17	20.584		
3,300.0	3,282.9	3,279.3	3,229.9	7.8	10.8	-29.90	-143.0	512.6	260.6	248.0	12.58	20.718		
3,400.0	3,382.2	3,378.8	3,327.1	8.1	11.2	-29.87	-149.0	532.9	270.5	257.6	12.98	20.844		
3,500.0	3,481.4	3,478.3	3,424.4	8.4	11.6	-29.84	-155.0	553.1	280.5	267.2	13.38	20.963		
3,600.0	3,580.7	3,577.8	3,521.6	8.6	12.0	-29.81	-161.0	573.4	290.5	276.8	13.79	21.074		
3,700.0	3,680.0	3,677.3	3,618.8	8.9	12.4	-29.78	-167.0	593.7	300.5	286.3	14.19	21.179		
3,800.0	3,779.2	3,776.8	3,716.0	9.2	12.8	-29.76	-173.0	614.0	310.5	295.9	14.59	21.278		
3,900.0	3,878.5	3,876.3	3,813.3	9.4	13.2	-29.73	-179.0	634.2	320.5	305.5	15.00	21.371		
4,000.0	3,977.8	3,975.8	3,910.5	9.7	13.6	-29.71	-185.0	654.5	330.5	315.1	15.40	21.460		
4,100.0	4,077.0	4,075.3	4,007.7	10.0	14.1	-29.69	-191.0	674.8	340.5	324.7	15.81	21.544		
4,200.0	4,176.3	4,174.8	4,104.9	10.3	14.5	-29.67	-197.0	695.1	350.5	334.3	16.21	21.623		
4,300.0	4,275.6	4,274.3	4,202.2	10.5	14.9	-29.65	-203.0	715.4	360.5	343.9	16.61	21.699		
4,400.0	4,374.8	4,373.8	4,299.4	10.8	15.3	-29.63	-209.0	735.6	370.5	353.5	17.02	21.771		
4,500.0	4,474.1	4,473.3	4,396.6	11.1	15.7	-29.62	-215.0	755.9	380.5	363.1	17.42	21.840		
4,600.0	4,573.4	4,572.8	4,493.8	11.4	16.1	-29.60	-221.0	776.2	390.5	372.7	17.83	21.905		
4,700.0	4,672.6	4,672.3	4,591.1	11.6	16.5	-29.59	-227.0	796.5	400.5	382.2	18.23	21.968		
4,800.0	4,771.9	4,771.8	4,688.3	11.9	16.9	-29.57	-233.0	816.8	410.5	391.8	18.63	22.028		
4,900.0	4,871.2	4,871.3	4,785.5	12.2	17.4	-29.56	-239.0	837.0	420.5	401.4	19.04	22.085		
5,000.0	4,970.5	4,970.8	4,882.8	12.4	17.8	-29.54	-245.0	857.3	430.5	411.0	19.44	22.140		

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 4R-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 4R-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 4U-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,069.7	5,070.3	4,980.0	12.7	18.2	-29.53	-251.0	877.6	440.5	420.6	19.85	22.192		
5,200.0	5,169.0	5,169.8	5,077.2	13.0	18.6	-29.52	-257.0	897.9	450.5	430.2	20.25	22.243		
5,300.0	5,268.3	5,269.3	5,174.4	13.3	19.0	-29.51	-263.0	918.1	460.4	439.8	20.66	22.291		
5,400.0	5,367.5	5,368.8	5,271.7	13.5	19.4	-29.50	-269.0	938.4	470.4	449.4	21.06	22.338		
5,500.0	5,466.8	5,468.3	5,368.9	13.8	19.8	-29.49	-275.0	958.7	480.4	459.0	21.47	22.382		
5,600.0	5,566.1	5,567.8	5,466.1	14.1	20.3	-29.48	-281.0	979.0	490.4	468.6	21.87	22.425		
5,700.0	5,665.3	5,667.3	5,563.3	14.4	20.7	-29.47	-287.0	999.3	500.4	478.2	22.27	22.467		
5,800.0	5,764.6	5,766.8	5,660.6	14.6	21.1	-29.46	-293.0	1,019.5	510.4	487.7	22.68	22.507		
5,900.0	5,863.9	5,866.3	5,757.8	14.9	21.5	-29.45	-299.0	1,039.8	520.4	497.3	23.08	22.545		
6,000.0	5,963.1	5,965.8	5,855.0	15.2	21.9	-29.44	-304.9	1,060.1	530.4	506.9	23.49	22.583		
6,100.0	6,062.4	6,065.3	5,952.2	15.5	22.3	-29.43	-310.9	1,080.4	540.4	516.5	23.89	22.619		
6,200.0	6,161.7	6,164.8	6,049.5	15.7	22.7	-29.42	-316.9	1,100.7	550.4	526.1	24.30	22.653		
6,300.0	6,260.9	6,264.3	6,146.7	16.0	23.2	-29.42	-322.9	1,120.9	560.4	535.7	24.70	22.687		
6,400.0	6,360.2	6,363.8	6,243.9	16.3	23.6	-29.41	-328.9	1,141.2	570.4	545.3	25.11	22.720		
6,500.0	6,459.5	6,463.3	6,341.1	16.6	24.0	-29.40	-334.9	1,161.5	580.4	554.9	25.51	22.751		
6,600.0	6,558.7	6,562.8	6,438.4	16.8	24.4	-29.40	-340.9	1,181.8	590.4	564.5	25.92	22.781		
6,700.0	6,658.0	6,662.3	6,535.6	17.1	24.8	-29.39	-346.9	1,202.0	600.4	574.1	26.32	22.811		
6,787.9	6,745.2	6,749.7	6,621.0	17.3	25.2	-29.38	-352.2	1,219.9	609.2	582.5	26.68	22.836		
6,800.0	6,757.3	6,761.8	6,632.8	17.4	25.2	-22.04	-352.9	1,222.3	610.4	583.7	26.72	22.843		
6,850.0	6,807.0	6,811.4	6,681.4	17.5	25.4	14.17	-355.9	1,232.4	615.4	588.5	26.82	22.941		
6,900.0	6,856.6	6,860.8	6,729.6	17.6	25.6	42.44	-358.9	1,242.5	620.4	593.6	26.82	23.135		
6,950.0	6,905.9	6,910.1	6,777.8	17.6	25.8	57.91	-361.5	1,252.6	625.5	598.8	26.71	23.418		
7,000.0	6,954.6	6,960.3	6,826.9	17.7	26.0	66.60	-361.3	1,262.8	630.7	604.2	26.56	23.747		
7,050.0	7,002.5	7,011.2	6,876.6	17.7	26.2	72.03	-357.4	1,273.2	636.0	609.6	26.40	24.095		
7,100.0	7,049.3	7,062.9	6,926.7	17.7	26.4	75.75	-349.9	1,283.6	641.3	615.1	26.23	24.450		
7,150.0	7,094.9	7,115.4	6,976.8	17.7	26.5	78.47	-338.4	1,294.1	646.6	620.5	26.07	24.799		
7,200.0	7,139.0	7,168.7	7,026.7	17.8	26.6	80.57	-323.0	1,304.5	651.9	625.9	25.94	25.128		
7,250.0	7,181.4	7,222.8	7,076.1	17.7	26.8	82.25	-303.5	1,314.8	657.1	631.2	25.85	25.422		
7,300.0	7,221.8	7,277.7	7,124.6	17.7	26.9	83.63	-279.9	1,324.9	662.2	636.4	25.80	25.668		
7,350.0	7,260.1	7,333.5	7,172.0	17.8	27.0	84.79	-252.0	1,334.8	667.1	641.3	25.80	25.855		
7,400.0	7,296.2	7,390.2	7,217.7	17.8	27.1	85.77	-220.0	1,344.3	671.8	645.9	25.86	25.973		
7,450.0	7,329.7	7,447.6	7,261.4	17.8	27.2	86.62	-183.9	1,353.4	676.3	650.3	25.99	26.019		
7,500.0	7,360.6	7,505.9	7,302.7	17.9	27.3	87.34	-143.7	1,362.0	680.5	654.3	26.19	25.982		
7,550.0	7,388.8	7,564.9	7,341.1	17.9	27.4	87.96	-99.6	1,370.1	684.3	657.9	26.46	25.865		
7,600.0	7,414.0	7,624.7	7,376.3	18.0	27.5	88.48	-51.9	1,377.4	687.9	661.1	26.80	25.669		
7,650.0	7,436.1	7,685.1	7,407.8	18.2	27.7	88.93	-0.7	1,384.0	691.0	663.8	27.15	25.446		
7,700.0	7,455.1	7,746.2	7,435.1	18.4	27.8	89.29	53.5	1,389.7	693.7	666.1	27.63	25.102		
7,750.0	7,470.8	7,807.7	7,458.1	18.6	28.0	89.58	110.3	1,394.4	695.9	667.8	28.15	24.720		
7,800.0	7,483.2	7,869.6	7,476.2	18.8	28.2	89.79	169.4	1,398.2	697.7	669.0	28.73	24.287		
7,850.0	7,492.3	7,931.8	7,489.4	19.1	28.4	89.93	230.1	1,401.0	698.9	669.6	29.35	23.813		
7,900.0	7,497.9	7,994.2	7,497.3	19.4	28.7	90.00	291.9	1,402.6	699.7	669.7	30.02	23.306		
7,950.0	7,500.0	8,056.7	7,500.0	19.7	29.0	90.00	354.3	1,403.2	699.9	669.2	30.74	22.770		
7,955.7	7,500.0	8,062.3	7,500.0	19.7	29.0	90.00	360.0	1,403.2	699.9	669.1	30.84	22.693		
8,000.0	7,500.0	8,106.7	7,500.0	20.1	29.2	90.00	404.3	1,403.2	699.9	668.2	31.68	22.090		
8,100.0	7,500.0	8,206.7	7,500.0	20.9	29.8	90.00	504.3	1,403.2	699.9	666.1	33.76	20.730		
8,200.0	7,500.0	8,306.7	7,500.0	21.8	30.4	90.00	604.3	1,403.2	699.9	663.8	36.06	19.408		
8,300.0	7,500.0	8,406.7	7,500.0	22.9	31.2	90.00	704.3	1,403.2	699.9	661.3	38.55	18.157		
8,400.0	7,500.0	8,506.7	7,500.0	24.0	32.0	90.00	804.3	1,403.2	699.9	658.7	41.18	16.997		
8,495.7	7,500.0	8,602.3	7,500.0	25.1	32.8	90.00	900.0	1,403.2	699.9	656.1	43.81	15.975		
8,500.0	7,500.0	8,606.7	7,500.0	25.2	32.9	90.00	904.3	1,403.2	699.9	656.0	43.93	15.931		
8,600.0	7,500.0	8,706.7	7,500.0	26.4	33.8	90.00	1,004.3	1,403.2	699.9	653.1	46.79	14.958		
8,700.0	7,500.0	8,806.7	7,500.0	27.7	34.9	90.00	1,104.3	1,403.2	699.9	650.2	49.73	14.074		

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 4R-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 4R-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 4U-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
8,800.0	7,500.0	8,906.7	7,500.0	29.1	35.9	90.00	1,204.3	1,403.2	699.9	647.2	52.74	13.271	
8,900.0	7,500.0	9,006.7	7,500.0	30.5	37.1	90.00	1,304.3	1,403.2	699.9	644.1	55.81	12.542	
9,000.0	7,500.0	9,106.7	7,500.0	31.9	38.2	90.00	1,404.3	1,403.2	699.9	641.0	58.92	11.878	
9,100.0	7,500.0	9,206.7	7,500.0	33.4	39.5	90.00	1,504.3	1,403.2	699.9	637.8	62.08	11.274	
9,200.0	7,500.0	9,306.7	7,500.0	34.9	40.7	90.00	1,604.3	1,403.2	699.9	634.6	65.28	10.722	
9,300.0	7,500.0	9,406.7	7,500.0	36.4	42.0	90.00	1,704.3	1,403.2	699.9	631.4	68.50	10.217	
9,400.0	7,500.0	9,506.7	7,500.0	37.9	43.4	90.00	1,804.3	1,403.2	699.9	628.1	71.75	9.754	
9,500.0	7,500.0	9,606.7	7,500.0	39.5	44.7	90.00	1,904.3	1,403.2	699.9	624.9	75.03	9.329	
9,600.0	7,500.0	9,706.7	7,500.0	41.0	46.1	90.00	2,004.3	1,403.2	699.9	621.6	78.32	8.936	
9,700.0	7,500.0	9,806.7	7,500.0	42.6	47.5	90.00	2,104.3	1,403.2	699.9	618.3	81.63	8.574	
9,800.0	7,500.0	9,906.7	7,500.0	44.2	48.9	90.00	2,204.3	1,403.2	699.9	614.9	84.96	8.238	
9,900.0	7,500.0	10,006.7	7,500.0	45.8	50.4	90.00	2,304.3	1,403.2	699.9	611.6	88.30	7.926	
10,000.0	7,500.0	10,106.7	7,500.0	47.4	51.9	90.00	2,404.3	1,403.2	699.9	608.2	91.66	7.636	
10,100.0	7,500.0	10,206.7	7,500.0	49.1	53.4	90.00	2,504.3	1,403.2	699.9	604.9	95.02	7.365	
10,200.0	7,500.0	10,306.7	7,500.0	50.7	54.9	90.00	2,604.3	1,403.2	699.9	601.5	98.40	7.113	
10,300.0	7,500.0	10,406.7	7,500.0	52.3	56.4	90.00	2,704.3	1,403.2	699.9	598.1	101.78	6.876	
10,400.0	7,500.0	10,506.7	7,500.0	54.0	57.9	90.00	2,804.3	1,403.2	699.9	594.7	105.18	6.654	
10,500.0	7,500.0	10,606.7	7,500.0	55.7	59.5	90.00	2,904.3	1,403.2	699.9	591.3	108.58	6.446	
10,600.0	7,500.0	10,706.7	7,500.0	57.3	61.0	90.00	3,004.3	1,403.2	699.9	587.9	111.98	6.250	
10,700.0	7,500.0	10,806.7	7,500.0	59.0	62.6	90.00	3,104.3	1,403.2	699.9	584.5	115.40	6.065	
10,800.0	7,500.0	10,906.7	7,500.0	60.7	64.2	90.00	3,204.3	1,403.2	699.9	581.1	118.82	5.891	
10,900.0	7,500.0	11,006.7	7,500.0	62.3	65.8	90.00	3,304.3	1,403.2	699.9	577.7	122.24	5.726	
11,000.0	7,500.0	11,106.7	7,500.0	64.0	67.4	90.00	3,404.3	1,403.2	699.9	574.2	125.67	5.569	
11,100.0	7,500.0	11,206.7	7,500.0	65.7	69.0	90.00	3,504.3	1,403.2	699.9	570.8	129.10	5.421	
11,200.0	7,500.0	11,306.7	7,500.0	67.4	70.6	90.00	3,604.3	1,403.2	699.9	567.4	132.54	5.281	
11,300.0	7,500.0	11,406.7	7,500.0	69.1	72.2	90.00	3,704.3	1,403.2	699.9	563.9	135.98	5.147	
11,345.7	7,500.0	11,452.3	7,500.0	69.9	72.9	90.00	3,750.0	1,403.2	699.9	562.3	137.55	5.088	
11,400.0	7,500.0	11,506.7	7,500.0	70.8	73.8	90.00	3,804.3	1,403.2	699.4	560.0	139.42	5.017	
11,500.0	7,500.0	11,606.6	7,500.0	72.5	75.4	90.00	3,904.3	1,403.2	696.2	553.4	142.86	4.873	
11,600.0	7,500.0	11,706.4	7,500.0	74.2	77.1	90.00	4,004.1	1,403.2	690.0	543.7	146.30	4.716	
11,700.0	7,500.0	11,806.0	7,500.0	75.9	78.7	90.00	4,103.6	1,403.2	680.7	530.9	149.74	4.546	
11,800.0	7,500.0	11,905.2	7,500.0	77.7	80.3	90.00	4,202.9	1,403.2	668.3	515.1	153.17	4.363	
11,828.3	7,500.0	11,933.2	7,500.0	78.2	80.8	90.00	4,230.9	1,403.2	664.2	510.1	154.13	4.309	
11,857.5	7,500.0	11,956.7	7,500.0	78.7	81.2	90.00	4,254.3	1,403.2	659.9	504.6	155.33	4.249 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4V-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.50	-0.4	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.50	-0.4	40.0	40.0	39.7	0.30	134.851		
200.0	200.0	200.0	200.0	0.3	0.3	90.50	-0.4	40.0	40.0	39.4	0.65	61.959		
203.3	203.3	203.3	203.3	0.3	0.3	90.50	-0.4	40.0	40.0	39.4	0.66	60.858 CC		
300.0	300.0	299.7	299.7	0.5	0.5	90.58	-0.4	40.2	40.2	39.2	0.99	40.454 ES		
400.0	400.0	399.0	398.9	0.7	0.7	91.16	-0.9	41.9	41.9	40.6	1.34	31.225		
500.0	500.0	498.2	498.1	0.8	0.9	92.20	-1.7	45.2	45.3	43.6	1.69	26.799		
600.0	600.0	597.3	597.1	1.0	1.0	-26.58	-3.1	50.2	49.6	47.5	2.04	24.340		
700.0	700.0	696.3	695.8	1.2	1.2	-26.30	-4.8	56.8	54.0	51.6	2.38	22.650		
800.0	799.9	795.2	794.4	1.4	1.5	-26.46	-7.0	65.1	58.6	55.8	2.73	21.426		
900.0	899.7	894.1	892.7	1.6	1.7	-26.99	-9.7	75.0	63.3	60.2	3.09	20.502		
1,000.0	999.4	992.9	990.8	1.8	2.0	-27.79	-12.7	86.5	68.1	64.7	3.44	19.779		
1,100.0	1,098.9	1,091.6	1,088.5	2.0	2.2	-28.80	-16.2	99.6	73.1	69.3	3.81	19.192		
1,193.5	1,191.9	1,183.8	1,179.7	2.2	2.5	-29.90	-19.9	113.4	77.9	73.7	4.16	18.727		
1,200.0	1,198.3	1,190.2	1,185.9	2.2	2.5	-29.98	-20.2	114.4	78.2	74.1	4.18	18.698		
1,300.0	1,297.5	1,288.6	1,282.9	2.5	2.9	-30.98	-24.5	130.7	84.4	79.9	4.57	18.477		
1,400.0	1,396.8	1,386.8	1,379.4	2.7	3.2	-31.52	-29.3	148.6	92.3	87.3	4.96	18.611		
1,500.0	1,496.1	1,484.8	1,475.3	3.0	3.6	-31.70	-34.5	168.1	101.7	96.4	5.35	19.029		
1,600.0	1,595.3	1,582.4	1,570.5	3.2	4.0	-31.59	-40.1	189.0	112.8	107.1	5.73	19.679		
1,700.0	1,694.6	1,681.3	1,666.6	3.5	4.4	-31.34	-46.0	211.4	125.1	118.9	6.13	20.407		
1,800.0	1,793.9	1,780.5	1,763.1	3.8	4.9	-31.13	-52.0	233.8	137.3	130.8	6.53	21.040		
1,900.0	1,893.1	1,879.8	1,859.6	4.0	5.3	-30.96	-58.0	256.2	149.6	142.6	6.93	21.599		
2,000.0	1,992.4	1,979.0	1,956.0	4.3	5.7	-30.81	-64.0	278.7	161.8	154.5	7.32	22.095		
2,100.0	2,091.7	2,078.3	2,052.5	4.6	6.2	-30.68	-70.0	301.1	174.1	166.4	7.72	22.538		
2,200.0	2,190.9	2,177.5	2,149.0	4.8	6.6	-30.57	-76.0	323.6	186.4	178.2	8.13	22.936		
2,300.0	2,290.2	2,276.8	2,245.5	5.1	7.0	-30.47	-81.9	346.0	198.6	190.1	8.53	23.296		
2,400.0	2,389.5	2,376.0	2,342.0	5.4	7.5	-30.39	-87.9	368.5	210.9	202.0	8.93	23.623		
2,500.0	2,488.7	2,475.3	2,438.5	5.6	7.9	-30.31	-93.9	390.9	223.2	213.8	9.33	23.921		
2,600.0	2,588.0	2,574.5	2,535.0	5.9	8.4	-30.24	-99.9	413.3	235.4	225.7	9.73	24.194		
2,700.0	2,687.3	2,673.7	2,631.5	6.2	8.8	-30.18	-105.9	435.8	247.7	237.6	10.13	24.445		
2,800.0	2,786.6	2,773.0	2,728.0	6.5	9.3	-30.12	-111.9	458.2	259.9	249.4	10.53	24.676		
2,900.0	2,885.8	2,872.2	2,824.4	6.7	9.7	-30.07	-117.8	480.7	272.2	261.3	10.94	24.889		
3,000.0	2,985.1	2,971.5	2,920.9	7.0	10.1	-30.03	-123.8	503.1	284.5	273.1	11.34	25.088		
3,100.0	3,084.4	3,070.7	3,017.4	7.3	10.6	-29.99	-129.8	525.6	296.7	285.0	11.74	25.272		
3,200.0	3,183.6	3,170.0	3,113.9	7.5	11.0	-29.95	-135.8	548.0	309.0	296.9	12.15	25.444		
3,300.0	3,282.9	3,269.2	3,210.4	7.8	11.5	-29.91	-141.8	570.4	321.3	308.7	12.55	25.604		
3,400.0	3,382.2	3,368.5	3,306.9	8.1	11.9	-29.88	-147.8	592.9	333.5	320.6	12.95	25.755		
3,500.0	3,481.4	3,467.7	3,403.4	8.4	12.4	-29.85	-153.7	615.3	345.8	332.5	13.35	25.896		
3,600.0	3,580.7	3,566.9	3,499.9	8.6	12.8	-29.82	-159.7	637.8	358.1	344.3	13.76	26.029		
3,700.0	3,680.0	3,666.2	3,596.4	8.9	13.3	-29.79	-165.7	660.2	370.3	356.2	14.16	26.154		
3,800.0	3,779.2	3,765.4	3,692.8	9.2	13.7	-29.76	-171.7	682.7	382.6	368.0	14.56	26.272		
3,900.0	3,878.5	3,864.7	3,789.3	9.4	14.2	-29.74	-177.7	705.1	394.9	379.9	14.97	26.383		
4,000.0	3,977.8	3,963.9	3,885.8	9.7	14.6	-29.72	-183.7	727.5	407.1	391.8	15.37	26.489		
4,100.0	4,077.0	4,063.2	3,982.3	10.0	15.1	-29.70	-189.6	750.0	419.4	403.6	15.77	26.589		
4,200.0	4,176.3	4,162.4	4,078.8	10.3	15.5	-29.68	-195.6	772.4	431.7	415.5	16.18	26.684		
4,300.0	4,275.6	4,261.7	4,175.3	10.5	16.0	-29.66	-201.6	794.9	443.9	427.4	16.58	26.774		
4,400.0	4,374.8	4,360.9	4,271.8	10.8	16.4	-29.64	-207.6	817.3	456.2	439.2	16.99	26.860		
4,500.0	4,474.1	4,460.1	4,368.3	11.1	16.9	-29.62	-213.6	839.8	468.5	451.1	17.39	26.942		
4,600.0	4,573.4	4,559.4	4,464.7	11.4	17.3	-29.61	-219.5	862.2	480.8	463.0	17.79	27.020		
4,700.0	4,672.6	4,658.6	4,561.2	11.6	17.8	-29.59	-225.5	884.6	493.0	474.8	18.20	27.094		
4,800.0	4,771.9	4,757.9	4,657.7	11.9	18.2	-29.58	-231.5	907.1	505.3	486.7	18.60	27.166		
4,900.0	4,871.2	4,857.1	4,754.2	12.2	18.7	-29.56	-237.5	929.5	517.6	498.5	19.00	27.234		

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 4R-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 4R-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 4V-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	4,970.5	4,956.4	4,850.7	12.4	19.1	-29.55	-243.5	952.0	529.8	510.4	19.41	27.299	
5,100.0	5,069.7	5,055.6	4,947.2	12.7	19.6	-29.54	-249.5	974.4	542.1	522.3	19.81	27.362	
5,200.0	5,169.0	5,154.9	5,043.7	13.0	20.0	-29.53	-255.4	996.9	554.4	534.1	20.22	27.422	
5,300.0	5,268.3	5,254.1	5,140.2	13.3	20.5	-29.52	-261.4	1,019.3	566.6	546.0	20.62	27.480	
5,400.0	5,367.5	5,353.4	5,236.7	13.5	20.9	-29.50	-267.4	1,041.7	578.9	557.9	21.02	27.535	
5,500.0	5,466.8	5,452.6	5,333.1	13.8	21.4	-29.49	-273.4	1,064.2	591.2	569.7	21.43	27.589	
5,600.0	5,566.1	5,551.8	5,429.6	14.1	21.8	-29.48	-279.4	1,086.6	603.4	581.6	21.83	27.640	
5,700.0	5,665.3	5,651.1	5,526.1	14.4	22.3	-29.47	-285.4	1,109.1	615.7	593.5	22.24	27.689	
5,800.0	5,764.6	5,750.3	5,622.6	14.6	22.7	-29.47	-291.3	1,131.5	628.0	605.3	22.64	27.737	
5,900.0	5,863.9	5,849.6	5,719.1	14.9	23.2	-29.46	-297.3	1,154.0	640.2	617.2	23.04	27.783	
6,000.0	5,963.1	5,948.8	5,815.6	15.2	23.6	-29.45	-303.3	1,176.4	652.5	629.0	23.45	27.828	
6,100.0	6,062.4	6,048.1	5,912.1	15.5	24.0	-29.44	-309.3	1,198.8	664.8	640.9	23.85	27.870	
6,200.0	6,161.7	6,147.3	6,008.6	15.7	24.5	-29.43	-315.3	1,221.3	677.0	652.8	24.26	27.912	
6,300.0	6,260.9	6,246.6	6,105.1	16.0	24.9	-29.42	-321.3	1,243.7	689.3	664.6	24.66	27.952	
6,400.0	6,360.2	6,345.8	6,201.5	16.3	25.4	-29.42	-327.2	1,266.2	701.6	676.5	25.06	27.991	
6,500.0	6,459.5	6,445.0	6,298.0	16.6	25.8	-29.41	-333.2	1,288.6	713.8	688.4	25.47	28.028	
6,600.0	6,558.7	6,544.3	6,394.5	16.8	26.3	-29.40	-339.2	1,311.1	726.1	700.2	25.87	28.064	
6,700.0	6,658.0	6,643.5	6,491.0	17.1	26.7	-29.40	-345.2	1,333.5	738.4	712.1	26.28	28.100	
6,787.9	6,745.2	6,730.7	6,575.8	17.3	27.1	-29.39	-350.5	1,353.2	749.1	722.5	26.63	28.130	
6,800.0	6,757.3	6,742.8	6,587.5	17.4	27.2	-22.07	-351.2	1,355.9	750.6	724.0	26.68	28.138	
6,850.0	6,807.0	6,792.3	6,635.7	17.5	27.4	14.00	-354.2	1,367.2	756.8	730.0	26.79	28.249	
6,900.0	6,856.6	6,841.6	6,683.5	17.6	27.6	42.07	-357.1	1,378.3	762.9	736.1	26.80	28.466	
6,950.0	6,905.9	6,890.3	6,730.9	17.6	27.9	57.32	-360.1	1,389.3	769.1	742.4	26.72	28.784	
7,000.0	6,954.6	6,938.8	6,778.1	17.7	28.1	65.95	-362.8	1,400.3	775.5	748.9	26.56	29.195	
7,050.0	7,002.5	6,989.0	6,826.9	17.7	28.3	71.38	-362.8	1,411.6	781.9	755.6	26.37	29.649	
7,100.0	7,049.3	7,040.1	6,876.6	17.7	28.5	75.10	-359.1	1,423.2	788.5	762.3	26.19	30.112	
7,150.0	7,094.9	7,092.4	6,927.0	17.7	28.7	77.84	-351.7	1,434.9	795.1	769.1	26.01	30.566	
7,200.0	7,139.0	7,145.8	6,977.8	17.8	28.8	79.96	-340.2	1,446.7	801.8	775.9	25.87	30.990	
7,250.0	7,181.4	7,200.4	7,028.7	17.7	29.0	81.67	-324.5	1,458.6	808.4	782.6	25.77	31.366	
7,300.0	7,221.8	7,256.2	7,079.4	17.7	29.2	83.08	-304.3	1,470.4	814.8	789.1	25.72	31.676	
7,350.0	7,260.1	7,313.4	7,129.6	17.8	29.3	84.28	-279.6	1,482.0	821.2	795.4	25.74	31.903	
7,400.0	7,296.2	7,371.9	7,178.7	17.8	29.4	85.31	-250.1	1,493.5	827.3	801.5	25.82	32.038	
7,450.0	7,329.7	7,431.7	7,226.4	17.8	29.6	86.21	-215.7	1,504.6	833.2	807.2	25.98	32.075	
7,500.0	7,360.6	7,492.9	7,272.1	17.9	29.7	86.99	-176.5	1,515.2	838.7	812.5	26.20	32.016	
7,550.0	7,388.8	7,555.4	7,315.3	17.9	29.8	87.66	-132.5	1,525.2	843.9	817.4	26.49	31.858	
7,600.0	7,414.0	7,619.1	7,355.3	18.0	30.0	88.25	-83.7	1,534.5	848.6	821.7	26.85	31.601	
7,650.0	7,436.1	7,684.1	7,391.6	18.2	30.1	88.75	-30.5	1,543.0	852.8	825.5	27.29	31.252	
7,700.0	7,455.1	7,750.1	7,423.4	18.4	30.3	89.16	26.8	1,550.4	856.5	828.7	27.73	30.889	
7,750.0	7,470.8	7,817.1	7,450.4	18.6	30.5	89.50	87.7	1,556.7	859.5	831.2	28.25	30.424	
7,800.0	7,483.2	7,884.8	7,471.9	18.8	30.7	89.75	151.7	1,561.7	861.9	833.1	28.82	29.908	
7,850.0	7,492.3	7,953.1	7,487.5	19.1	30.9	89.91	218.1	1,565.3	863.6	834.2	29.42	29.350	
7,900.0	7,497.9	8,021.8	7,497.0	19.4	31.2	90.00	286.1	1,567.5	864.6	834.5	30.08	28.745	
7,950.0	7,500.0	8,090.1	7,500.0	19.7	31.5	90.00	354.3	1,568.2	864.9	834.1	30.77	28.108	
7,955.7	7,500.0	8,095.8	7,500.0	19.7	31.5	90.00	360.0	1,568.2	864.9	834.0	30.87	28.014	
8,000.0	7,500.0	8,140.1	7,500.0	20.1	31.7	90.00	404.3	1,568.2	864.9	833.2	31.73	27.260	
8,100.0	7,500.0	8,240.1	7,500.0	20.9	32.2	90.00	504.3	1,568.2	864.9	831.1	33.80	25.587	
8,200.0	7,500.0	8,340.1	7,500.0	21.8	32.8	90.00	604.3	1,568.2	864.9	828.8	36.10	23.958	
8,300.0	7,500.0	8,440.1	7,500.0	22.9	33.5	90.00	704.3	1,568.2	864.9	826.3	38.58	22.418	
8,400.0	7,500.0	8,540.1	7,500.0	24.0	34.2	90.00	804.3	1,568.2	864.9	823.7	41.21	20.988	
8,495.7	7,500.0	8,635.8	7,500.0	25.1	35.0	90.00	900.0	1,568.2	864.9	821.1	43.84	19.728	
8,500.0	7,500.0	8,640.1	7,500.0	25.2	35.1	90.00	904.3	1,568.2	864.9	820.9	43.96	19.673	
8,600.0	7,500.0	8,740.1	7,500.0	26.4	36.0	90.00	1,004.3	1,568.2	864.9	818.1	46.82	18.474	

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 4R-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 4R-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 4V-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		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
8,700.0	7,500.0	8,840.1	7,500.0	27.7	36.9	90.00	1,104.3	1,568.2	864.9	815.1	49.75	17.383		
8,800.0	7,500.0	8,940.1	7,500.0	29.1	37.9	90.00	1,204.3	1,568.2	864.9	812.1	52.76	16.392		
8,900.0	7,500.0	9,040.1	7,500.0	30.5	39.0	90.00	1,304.3	1,568.2	864.9	809.1	55.83	15.492		
9,000.0	7,500.0	9,140.1	7,500.0	31.9	40.1	90.00	1,404.3	1,568.2	864.9	806.0	58.94	14.673		
9,100.0	7,500.0	9,240.1	7,500.0	33.4	41.3	90.00	1,504.3	1,568.2	864.9	802.8	62.10	13.927		
9,200.0	7,500.0	9,340.1	7,500.0	34.9	42.5	90.00	1,604.3	1,568.2	864.9	799.6	65.29	13.246		
9,300.0	7,500.0	9,440.1	7,500.0	36.4	43.7	90.00	1,704.3	1,568.2	864.9	796.4	68.52	12.623		
9,400.0	7,500.0	9,540.1	7,500.0	37.9	45.0	90.00	1,804.3	1,568.2	864.9	793.1	71.77	12.051		
9,500.0	7,500.0	9,640.1	7,500.0	39.5	46.3	90.00	1,904.3	1,568.2	864.9	789.8	75.04	11.525		
9,600.0	7,500.0	9,740.1	7,500.0	41.0	47.6	90.00	2,004.3	1,568.2	864.9	786.6	78.34	11.041		
9,700.0	7,500.0	9,840.1	7,500.0	42.6	49.0	90.00	2,104.3	1,568.2	864.9	783.2	81.65	10.593		
9,800.0	7,500.0	9,940.1	7,500.0	44.2	50.4	90.00	2,204.3	1,568.2	864.9	779.9	84.98	10.178		
9,900.0	7,500.0	10,040.1	7,500.0	45.8	51.8	90.00	2,304.3	1,568.2	864.9	776.6	88.32	9.793		
10,000.0	7,500.0	10,140.1	7,500.0	47.4	53.2	90.00	2,404.3	1,568.2	864.9	773.2	91.67	9.435		
10,100.0	7,500.0	10,240.1	7,500.0	49.1	54.7	90.00	2,504.3	1,568.2	864.9	769.9	95.04	9.100		
10,200.0	7,500.0	10,340.1	7,500.0	50.7	56.2	90.00	2,604.3	1,568.2	864.9	766.5	98.41	8.788		
10,300.0	7,500.0	10,440.1	7,500.0	52.3	57.6	90.00	2,704.3	1,568.2	864.9	763.1	101.80	8.496		
10,400.0	7,500.0	10,540.1	7,500.0	54.0	59.1	90.00	2,804.3	1,568.2	864.9	759.7	105.19	8.222		
10,500.0	7,500.0	10,640.1	7,500.0	55.7	60.7	90.00	2,904.3	1,568.2	864.9	756.3	108.59	7.965		
10,600.0	7,500.0	10,740.1	7,500.0	57.3	62.2	90.00	3,004.3	1,568.2	864.9	752.9	112.00	7.722		
10,700.0	7,500.0	10,840.1	7,500.0	59.0	63.7	90.00	3,104.3	1,568.2	864.9	749.5	115.41	7.494		
10,800.0	7,500.0	10,940.1	7,500.0	60.7	65.3	90.00	3,204.3	1,568.2	864.9	746.1	118.83	7.279		
10,900.0	7,500.0	11,040.1	7,500.0	62.3	66.8	90.00	3,304.3	1,568.2	864.9	742.6	122.25	7.075		
11,000.0	7,500.0	11,140.1	7,500.0	64.0	68.4	90.00	3,404.3	1,568.2	864.9	739.2	125.68	6.882		
11,100.0	7,500.0	11,240.1	7,500.0	65.7	70.0	90.00	3,504.3	1,568.2	864.9	735.8	129.11	6.699		
11,200.0	7,500.0	11,340.1	7,500.0	67.4	71.6	90.00	3,604.3	1,568.2	864.9	732.3	132.55	6.525		
11,300.0	7,500.0	11,440.1	7,500.0	69.1	73.2	90.00	3,704.3	1,568.2	864.9	728.9	135.99	6.360		
11,345.7	7,500.0	11,485.8	7,500.0	69.9	73.9	90.00	3,750.0	1,568.2	864.9	727.3	137.56	6.287		
11,400.0	7,500.0	11,540.1	7,500.0	70.8	74.8	90.00	3,804.3	1,568.2	864.4	725.0	139.43	6.200		
11,500.0	7,500.0	11,640.1	7,500.0	72.5	76.4	90.00	3,904.3	1,568.2	861.2	718.4	142.87	6.028		
11,600.0	7,500.0	11,739.9	7,500.0	74.2	78.0	90.00	4,004.1	1,568.2	855.0	708.7	146.31	5.843		
11,700.0	7,500.0	11,839.4	7,500.0	75.9	79.6	90.00	4,103.6	1,568.2	845.7	695.9	149.75	5.647		
11,800.0	7,500.0	11,938.7	7,500.0	77.7	81.2	90.00	4,202.9	1,568.2	833.3	680.1	153.18	5.440		
11,828.3	7,500.0	11,966.7	7,500.0	78.2	81.7	90.00	4,230.9	1,568.2	829.2	675.1	154.14	5.380		
11,857.5	7,500.0	11,988.8	7,500.0	78.7	82.0	90.00	4,253.0	1,568.2	825.0	669.6	155.34	5.311 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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 4W-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			Highside Toolface (°)	Distance			Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Offset Wellbore Centre +N/-S (ft)		+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.35	-0.3	50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.35	-0.3	50.1	50.1	49.8	0.30	168.796		
200.0	200.0	200.0	200.0	0.3	0.3	90.35	-0.3	50.1	50.1	49.4	0.65	77.555 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	90.44	-0.4	50.9	50.9	50.0	0.99	51.292		
400.0	400.0	398.2	398.2	0.7	0.7	90.68	-0.6	53.5	53.5	52.2	1.34	39.936		
500.0	500.0	497.1	497.0	0.8	0.9	91.03	-1.0	57.8	57.8	56.1	1.69	34.284		
600.0	600.0	596.0	595.7	1.0	1.1	-28.55	-1.6	63.7	63.1	61.1	2.03	31.036		
700.0	700.0	694.7	694.1	1.2	1.3	-29.07	-2.3	71.3	68.5	66.2	2.38	28.809		
800.0	799.9	793.3	792.2	1.4	1.5	-30.04	-3.2	80.6	74.2	71.5	2.73	27.209		
900.0	899.7	891.8	890.1	1.6	1.7	-31.35	-4.3	91.6	80.1	77.0	3.08	26.018		
1,000.0	999.4	990.2	987.7	1.8	2.0	-32.93	-5.5	104.2	86.2	82.8	3.44	25.102		
1,100.0	1,098.9	1,088.4	1,084.8	2.0	2.3	-34.71	-6.9	118.5	92.7	88.9	3.80	24.373		
1,193.5	1,191.9	1,180.2	1,175.4	2.2	2.6	-36.49	-8.3	133.3	99.1	94.9	4.16	23.803		
1,200.0	1,198.3	1,186.5	1,181.6	2.2	2.6	-36.62	-8.4	134.4	99.5	95.3	4.19	23.768		
1,300.0	1,297.5	1,284.4	1,277.9	2.5	3.0	-38.34	-10.0	151.9	107.5	102.9	4.58	23.452 SF		
1,400.0	1,396.8	1,382.1	1,373.7	2.7	3.3	-39.60	-11.9	171.0	117.2	112.2	4.99	23.490		
1,500.0	1,496.1	1,479.4	1,468.8	3.0	3.7	-40.45	-13.8	191.7	128.6	123.2	5.40	23.807		
1,600.0	1,595.3	1,576.3	1,563.2	3.2	4.1	-40.96	-16.0	213.9	141.6	135.8	5.81	24.348		
1,700.0	1,694.6	1,672.9	1,656.7	3.5	4.6	-41.20	-18.2	237.5	156.2	149.9	6.23	25.074		
1,800.0	1,793.9	1,768.9	1,749.4	3.8	5.1	-41.24	-20.6	262.6	172.4	165.7	6.64	25.955		
1,900.0	1,893.1	1,864.5	1,841.2	4.0	5.6	-41.12	-23.2	289.1	190.1	183.1	7.05	26.968		
2,000.0	1,992.4	1,959.4	1,931.9	4.3	6.1	-40.90	-25.8	316.9	209.4	202.0	7.45	28.099		
2,100.0	2,091.7	2,057.3	2,025.2	4.6	6.6	-40.64	-28.6	346.4	229.6	221.7	7.88	29.142		
2,200.0	2,190.9	2,155.3	2,118.6	4.8	7.2	-40.42	-31.5	375.9	249.7	241.4	8.30	30.074		
2,300.0	2,290.2	2,253.2	2,211.9	5.1	7.7	-40.24	-34.3	405.3	269.8	261.1	8.73	30.914		
2,400.0	2,389.5	2,351.2	2,305.3	5.4	8.3	-40.08	-37.1	434.8	289.9	280.8	9.15	31.673		
2,500.0	2,488.7	2,449.1	2,398.7	5.6	8.8	-39.95	-39.9	464.3	310.1	300.5	9.58	32.364		
2,600.0	2,588.0	2,547.1	2,492.0	5.9	9.4	-39.82	-42.7	493.8	330.2	320.2	10.01	32.993		
2,700.0	2,687.3	2,645.0	2,585.4	6.2	9.9	-39.72	-45.6	523.3	350.3	339.9	10.44	33.571		
2,800.0	2,786.6	2,743.0	2,678.8	6.5	10.5	-39.62	-48.4	552.8	370.5	359.6	10.86	34.101		
2,900.0	2,885.8	2,840.9	2,772.1	6.7	11.1	-39.54	-51.2	582.3	390.6	379.3	11.29	34.591		
3,000.0	2,985.1	2,938.9	2,865.5	7.0	11.6	-39.46	-54.0	611.8	410.7	399.0	11.72	35.043		
3,100.0	3,084.4	3,036.8	2,958.8	7.3	12.2	-39.39	-56.9	641.3	430.9	418.7	12.15	35.464		
3,200.0	3,183.6	3,134.8	3,052.2	7.5	12.7	-39.33	-59.7	670.8	451.0	438.4	12.58	35.854		
3,300.0	3,282.9	3,232.7	3,145.6	7.8	13.3	-39.27	-62.5	700.3	471.1	458.1	13.01	36.219		
3,400.0	3,382.2	3,330.7	3,238.9	8.1	13.9	-39.22	-65.3	729.8	491.3	477.8	13.44	36.560		
3,500.0	3,481.4	3,428.6	3,332.3	8.4	14.4	-39.17	-68.1	759.2	511.4	497.6	13.87	36.879		
3,600.0	3,580.7	3,526.6	3,425.7	8.6	15.0	-39.12	-71.0	788.7	531.6	517.3	14.30	37.179		
3,700.0	3,680.0	3,624.5	3,519.0	8.9	15.5	-39.08	-73.8	818.2	551.7	537.0	14.73	37.460		
3,800.0	3,779.2	3,722.5	3,612.4	9.2	16.1	-39.04	-76.6	847.7	571.8	556.7	15.16	37.726		
3,900.0	3,878.5	3,820.4	3,705.7	9.4	16.7	-39.00	-79.4	877.2	592.0	576.4	15.59	37.977		
4,000.0	3,977.8	3,918.4	3,799.1	9.7	17.2	-38.97	-82.2	906.7	612.1	596.1	16.02	38.213		
4,100.0	4,077.0	4,016.3	3,892.5	10.0	17.8	-38.94	-85.1	936.2	632.3	615.8	16.45	38.438		
4,200.0	4,176.3	4,114.3	3,985.8	10.3	18.4	-38.91	-87.9	965.7	652.4	635.5	16.88	38.650		
4,300.0	4,275.6	4,212.2	4,079.2	10.5	18.9	-38.88	-90.7	995.2	672.5	655.2	17.31	38.852		
4,400.0	4,374.8	4,310.2	4,172.6	10.8	19.5	-38.85	-93.5	1,024.7	692.7	674.9	17.74	39.044		
4,500.0	4,474.1	4,408.1	4,265.9	11.1	20.1	-38.83	-96.3	1,054.2	712.8	694.6	18.17	39.227		
4,600.0	4,573.4	4,506.1	4,359.3	11.4	20.6	-38.80	-99.2	1,083.7	733.0	714.4	18.60	39.401		
4,700.0	4,672.6	4,604.0	4,452.6	11.6	21.2	-38.78	-102.0	1,113.1	753.1	734.1	19.03	39.567		
4,800.0	4,771.9	4,702.0	4,546.0	11.9	21.7	-38.76	-104.8	1,142.6	773.2	753.8	19.46	39.725		
4,900.0	4,871.2	4,799.9	4,639.4	12.2	22.3	-38.74	-107.6	1,172.1	793.4	773.5	19.90	39.877		
5,000.0	4,970.5	4,897.9	4,732.7	12.4	22.9	-38.72	-110.4	1,201.6	813.5	793.2	20.33	40.022		

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 4R-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 4R-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 4W-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								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)						
5,100.0	5,069.7	4,995.8	4,826.1	12.7	23.4	-38.70	-113.3	1,231.1	833.7	812.9	20.76	40.161					
5,200.0	5,169.0	5,093.8	4,919.5	13.0	24.0	-38.69	-116.1	1,260.6	853.8	832.6	21.19	40.294					
5,300.0	5,268.3	5,191.7	5,012.8	13.3	24.6	-38.67	-118.9	1,290.1	873.9	852.3	21.62	40.422					
5,400.0	5,367.5	5,289.7	5,106.2	13.5	25.1	-38.65	-121.7	1,319.6	894.1	872.0	22.05	40.545					
5,500.0	5,466.8	5,387.6	5,199.5	13.8	25.7	-38.64	-124.5	1,349.1	914.2	891.7	22.48	40.663					
5,600.0	5,566.1	5,485.6	5,292.9	14.1	26.3	-38.62	-127.4	1,378.6	934.4	911.4	22.91	40.776					
5,700.0	5,665.3	5,583.5	5,386.3	14.4	26.8	-38.61	-130.2	1,408.1	954.5	931.2	23.35	40.885					
5,800.0	5,764.6	5,681.5	5,479.6	14.6	27.4	-38.60	-133.0	1,437.6	974.6	950.9	23.78	40.990					
5,900.0	5,863.9	5,779.4	5,573.0	14.9	28.0	-38.58	-135.8	1,467.0	994.8	970.6	24.21	41.092					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4R-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 4R-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

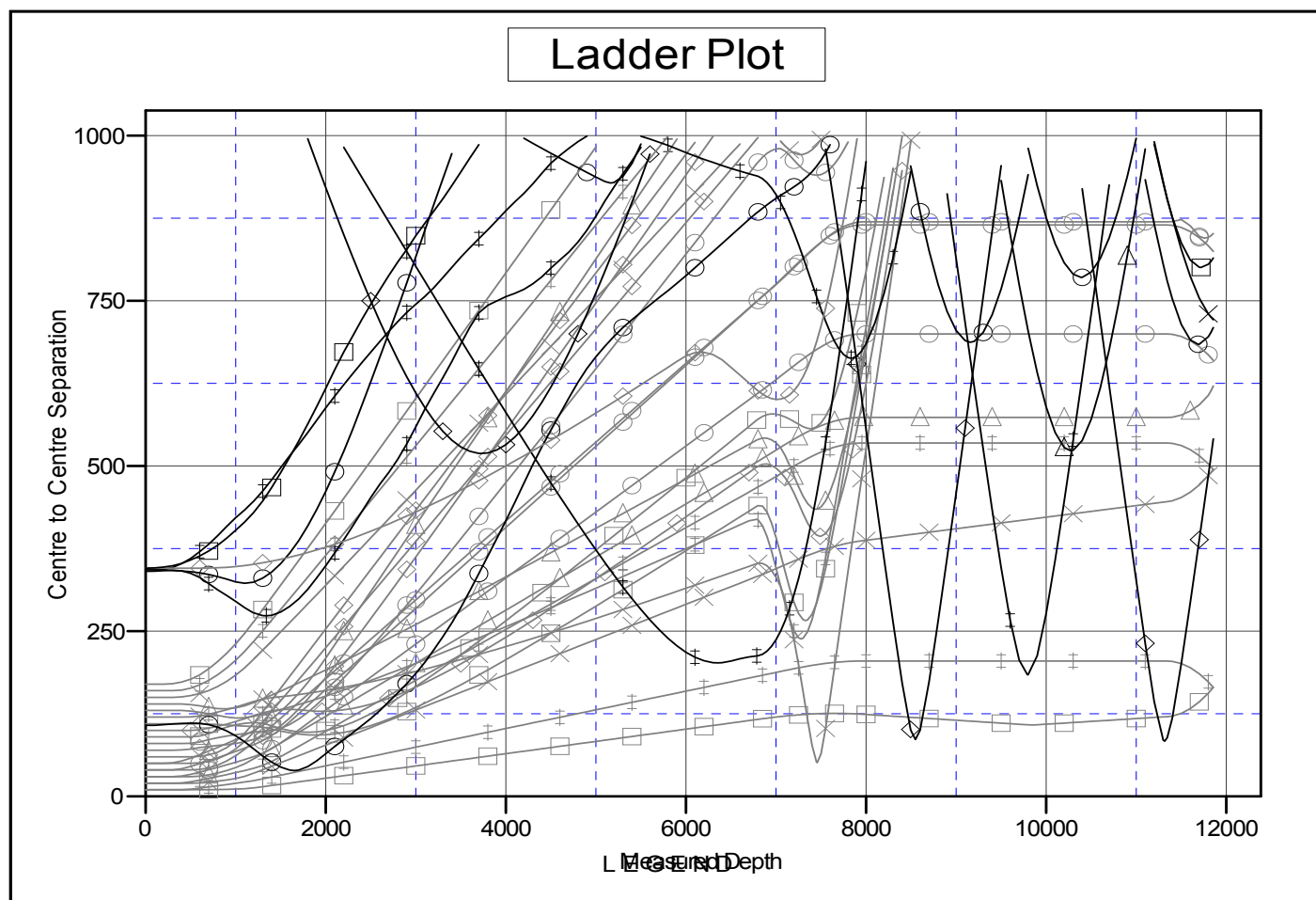
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: HWY 4R-32H-O268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0
268, OH, PLAN#1 V0

HWY 4N-32H-O268, OH, PLAN#1 V0
HWY 4O-32H-O268, OH, PLAN#1 V0
HWY 4P-32H-O268, OH, PLAN#1 V0
HWY 4Q-32H-O268, OH, PLAN#1 V0
HWY 4S-32H-O268, OH, PLAN#1 V0
HWY 4T-32H-O268, OH, PLAN#1 V0
HWY 4U-32H-O268, OH, PLAN#1 V0
HWY 4V-32H-O268, OH, PLAN#1 V0
HWY 4W-32H-O268, OH, PLAN#1 V0
ANDERSON31-32, ENCANA WELL, PLAN ONLY V0
ANDERSON32-32, ENCANA WELL, SURVEYS V0

ANDERSON TRUST 32-2, ENCANA WE
ANDERSON TRUST 32-8, ENCANA WE
ANDERSON TRUST C 1, ENCANA WE
BROWN 41-5, ENCANA WELL, ENCAN
CANINO 1-X, ENCANA WELL, NO SURV
NELSON E UNIT 2, ENCANA, SURVEY
RAY NELSON 33-32, ENCANA WELL E
RAY NELSON 34-32, ENCANA WELL E
RAY NELSON 44-32, ENCANA WELL E
RAY NELSON 4-8-32, ENCANA WELL, I
RAY NELSON 6-8-32, ENCANA WELL, I

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