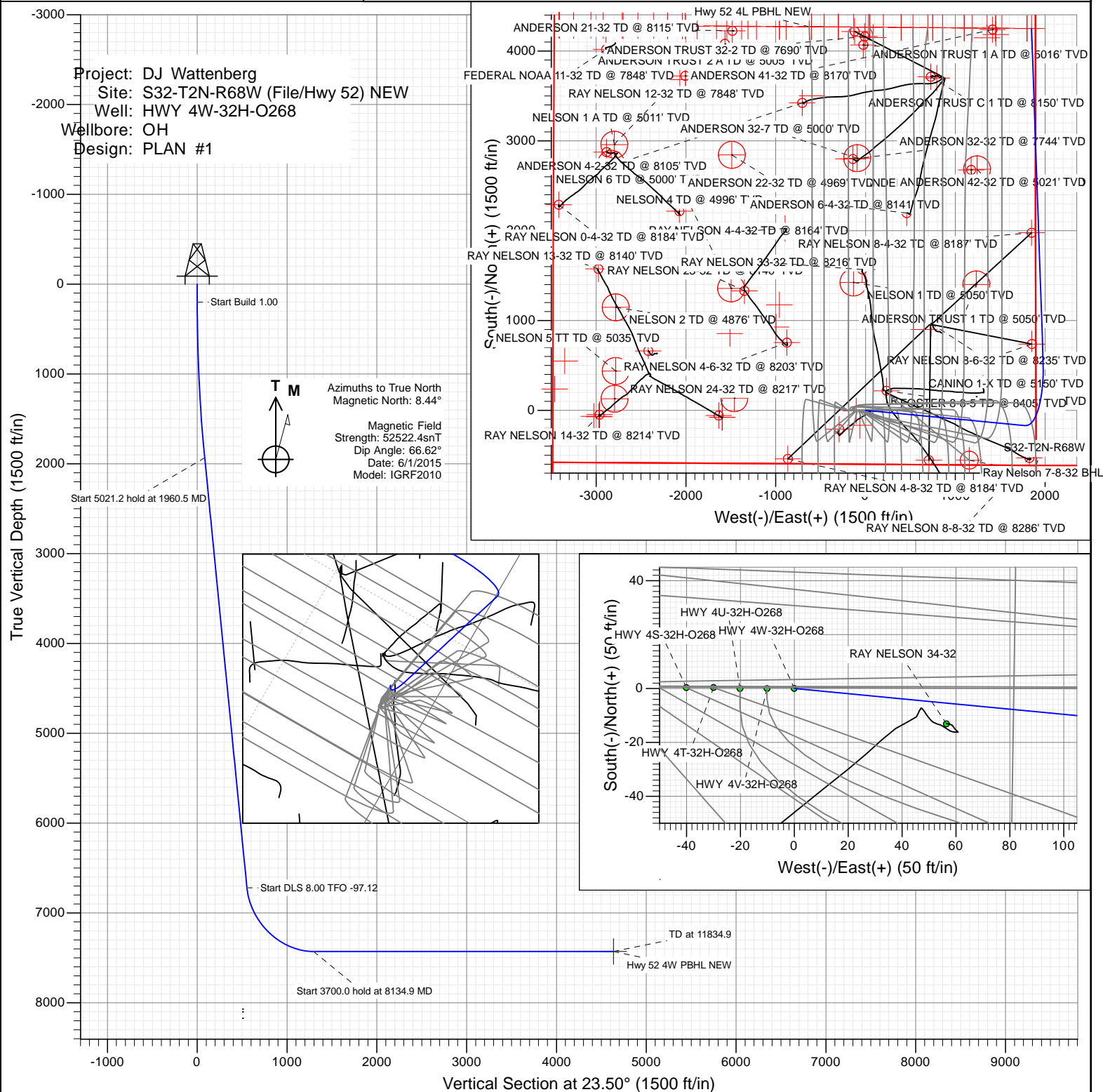




SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1960.5	17.61	95.46	1933.0	-25.6	267.1	1.00	95.46	83.1	
4	6981.7	17.61	95.46	6719.0	-170.2	1779.0	0.00	0.00	553.3	
5	8134.9	90.00	358.00	7429.0	552.9	1977.2	8.00	-97.12	1295.4	
6	11834.9	90.00	358.00	7429.0	4250.6	1848.1	0.00	0.00	4635.0	Hwy 52 4W PBHL NEW



CATHEDRAL

WELL DETAILS: HWY 4W-32H-O268

			Ground Level:	4988.0	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1275755.18	3133044.40	40.089353	-105.024499



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 4W-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.19 ft	Latitude:	40.089353
	+E/-W	0.0 ft	Easting:	3,133,044.40 ft	Longitude:	-105.024499
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)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	23.50	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,960.5	17.61	95.46	1,933.0	-25.6	267.1	1.00	1.00	0.00	95.46	
6,981.7	17.61	95.46	6,719.0	-170.2	1,779.0	0.00	0.00	0.00	0.00	
8,134.9	90.00	358.00	7,429.0	552.9	1,977.2	8.00	6.28	-8.45	-97.12	
11,834.9	90.00	358.00	7,429.0	4,250.6	1,848.1	0.00	0.00	0.00	0.00	Hwy 52 4W PBHL NE

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	Start Build 1.00
300.0	1.00	95.46	300.0	-0.1	0.9	0.3	1.00	1.00	
400.0	2.00	95.46	400.0	-0.3	3.5	1.1	1.00	1.00	
500.0	3.00	95.46	499.9	-0.7	7.8	2.4	1.00	1.00	
600.0	4.00	95.46	599.7	-1.3	13.9	4.3	1.00	1.00	
700.0	5.00	95.46	699.4	-2.1	21.7	6.8	1.00	1.00	
800.0	6.00	95.46	798.9	-3.0	31.2	9.7	1.00	1.00	
900.0	7.00	95.46	898.3	-4.1	42.5	13.2	1.00	1.00	
1,000.0	8.00	95.46	997.4	-5.3	55.5	17.3	1.00	1.00	
1,100.0	9.00	95.46	1,096.3	-6.7	70.2	21.8	1.00	1.00	
1,200.0	10.00	95.46	1,194.9	-8.3	86.6	26.9	1.00	1.00	
1,300.0	11.00	95.46	1,293.3	-10.0	104.8	32.6	1.00	1.00	
1,400.0	12.00	95.46	1,391.2	-11.9	124.6	38.8	1.00	1.00	
1,500.0	13.00	95.46	1,488.9	-14.0	146.2	45.5	1.00	1.00	
1,600.0	14.00	95.46	1,586.1	-16.2	169.4	52.7	1.00	1.00	
1,700.0	15.00	95.46	1,682.9	-18.6	194.3	60.4	1.00	1.00	
1,800.0	16.00	95.46	1,779.3	-21.1	220.9	68.7	1.00	1.00	
1,900.0	17.00	95.46	1,875.2	-23.8	249.2	77.5	1.00	1.00	
1,960.5	17.61	95.46	1,933.0	-25.6	267.1	83.1	1.00	1.00	Start 5021.2 hold at 1960.5 MD
2,000.0	17.61	95.46	1,970.6	-26.7	279.0	86.8	0.00	0.00	
2,100.0	17.61	95.46	2,065.9	-29.6	309.1	96.1	0.00	0.00	
2,200.0	17.61	95.46	2,161.2	-32.4	339.2	105.5	0.00	0.00	
2,300.0	17.61	95.46	2,256.5	-35.3	369.3	114.9	0.00	0.00	
2,400.0	17.61	95.46	2,351.8	-38.2	399.5	124.2	0.00	0.00	
2,500.0	17.61	95.46	2,447.2	-41.1	429.6	133.6	0.00	0.00	
2,600.0	17.61	95.46	2,542.5	-44.0	459.7	143.0	0.00	0.00	
2,700.0	17.61	95.46	2,637.8	-46.8	489.8	152.3	0.00	0.00	
2,800.0	17.61	95.46	2,733.1	-49.7	519.9	161.7	0.00	0.00	
2,900.0	17.61	95.46	2,828.4	-52.6	550.0	171.1	0.00	0.00	
3,000.0	17.61	95.46	2,923.7	-55.5	580.1	180.4	0.00	0.00	
3,100.0	17.61	95.46	3,019.1	-58.4	610.2	189.8	0.00	0.00	
3,200.0	17.61	95.46	3,114.4	-61.2	640.3	199.2	0.00	0.00	
3,300.0	17.61	95.46	3,209.7	-64.1	670.4	208.5	0.00	0.00	
3,400.0	17.61	95.46	3,305.0	-67.0	700.5	217.9	0.00	0.00	
3,500.0	17.61	95.46	3,400.3	-69.9	730.7	227.2	0.00	0.00	
3,600.0	17.61	95.46	3,495.6	-72.8	760.8	236.6	0.00	0.00	
3,700.0	17.61	95.46	3,591.0	-75.6	790.9	246.0	0.00	0.00	
3,800.0	17.61	95.46	3,686.3	-78.5	821.0	255.3	0.00	0.00	
3,900.0	17.61	95.46	3,781.6	-81.4	851.1	264.7	0.00	0.00	
4,000.0	17.61	95.46	3,876.9	-84.3	881.2	274.1	0.00	0.00	
4,100.0	17.61	95.46	3,972.2	-87.2	911.3	283.4	0.00	0.00	
4,200.0	17.61	95.46	4,067.5	-90.0	941.4	292.8	0.00	0.00	
4,300.0	17.61	95.46	4,162.9	-92.9	971.5	302.2	0.00	0.00	
4,400.0	17.61	95.46	4,258.2	-95.8	1,001.6	311.5	0.00	0.00	
4,500.0	17.61	95.46	4,353.5	-98.7	1,031.7	320.9	0.00	0.00	
4,600.0	17.61	95.46	4,448.8	-101.6	1,061.8	330.3	0.00	0.00	
4,700.0	17.61	95.46	4,544.1	-104.4	1,092.0	339.6	0.00	0.00	
4,800.0	17.61	95.46	4,639.4	-107.3	1,122.1	349.0	0.00	0.00	
4,900.0	17.61	95.46	4,734.7	-110.2	1,152.2	358.3	0.00	0.00	
5,000.0	17.61	95.46	4,830.1	-113.1	1,182.3	367.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	17.61	95.46	4,925.4	-116.0	1,212.4	377.1	0.00	0.00	
5,200.0	17.61	95.46	5,020.7	-118.8	1,242.5	386.4	0.00	0.00	
5,300.0	17.61	95.46	5,116.0	-121.7	1,272.6	395.8	0.00	0.00	
5,400.0	17.61	95.46	5,211.3	-124.6	1,302.7	405.2	0.00	0.00	
5,500.0	17.61	95.46	5,306.6	-127.5	1,332.8	414.5	0.00	0.00	
5,600.0	17.61	95.46	5,402.0	-130.4	1,362.9	423.9	0.00	0.00	
5,700.0	17.61	95.46	5,497.3	-133.2	1,393.0	433.3	0.00	0.00	
5,800.0	17.61	95.46	5,592.6	-136.1	1,423.2	442.6	0.00	0.00	
5,900.0	17.61	95.46	5,687.9	-139.0	1,453.3	452.0	0.00	0.00	
6,000.0	17.61	95.46	5,783.2	-141.9	1,483.4	461.4	0.00	0.00	
6,100.0	17.61	95.46	5,878.5	-144.8	1,513.5	470.7	0.00	0.00	
6,200.0	17.61	95.46	5,973.9	-147.6	1,543.6	480.1	0.00	0.00	
6,300.0	17.61	95.46	6,069.2	-150.5	1,573.7	489.4	0.00	0.00	
6,400.0	17.61	95.46	6,164.5	-153.4	1,603.8	498.8	0.00	0.00	
6,500.0	17.61	95.46	6,259.8	-156.3	1,633.9	508.2	0.00	0.00	
6,600.0	17.61	95.46	6,355.1	-159.2	1,664.0	517.5	0.00	0.00	
6,700.0	17.61	95.46	6,450.4	-162.0	1,694.1	526.9	0.00	0.00	
6,800.0	17.61	95.46	6,545.8	-164.9	1,724.2	536.3	0.00	0.00	
6,900.0	17.61	95.46	6,641.1	-167.8	1,754.3	545.6	0.00	0.00	
6,981.7	17.61	95.46	6,719.0	-170.2	1,779.0	553.3	0.00	0.00	Start DLS 8.00 TFO -97.12
7,000.0	17.48	90.63	6,736.4	-170.4	1,784.5	555.2	8.00	-0.67	
7,100.0	18.85	65.15	6,831.6	-163.8	1,814.2	573.1	8.00	1.37	
7,200.0	23.00	45.83	6,925.1	-143.4	1,842.9	603.3	8.00	4.15	
7,300.0	28.75	32.99	7,015.1	-109.5	1,870.1	645.2	8.00	5.75	
7,400.0	35.33	24.35	7,099.8	-62.9	1,895.1	697.9	8.00	6.58	
7,500.0	42.34	18.20	7,177.7	-4.5	1,917.6	760.5	8.00	7.01	
7,600.0	49.61	13.53	7,247.2	64.6	1,937.0	831.6	8.00	7.27	
7,700.0	57.02	9.78	7,306.9	143.1	1,953.1	910.0	8.00	7.42	
7,800.0	64.54	6.62	7,355.7	229.4	1,965.5	994.1	8.00	7.51	
7,900.0	72.11	3.83	7,392.6	321.9	1,973.8	1,082.2	8.00	7.57	
8,000.0	79.71	1.27	7,416.9	418.7	1,978.1	1,172.7	8.00	7.61	
8,100.0	87.34	358.84	7,428.2	518.0	1,978.2	1,263.8	8.00	7.63	
8,134.9	90.00	358.00	7,429.0	552.9	1,977.2	1,295.4	8.00	7.63	Start 3700.0 hold at 8134.9 MD
8,200.0	90.00	358.00	7,429.0	617.9	1,975.0	1,354.2	0.00	0.00	
8,300.0	90.00	358.00	7,429.0	717.9	1,971.5	1,444.4	0.00	0.00	
8,400.0	90.00	358.00	7,429.0	817.8	1,968.0	1,534.7	0.00	0.00	
8,500.0	90.00	358.00	7,429.0	917.7	1,964.5	1,624.9	0.00	0.00	
8,600.0	90.00	358.00	7,429.0	1,017.7	1,961.0	1,715.2	0.00	0.00	
8,700.0	90.00	358.00	7,429.0	1,117.6	1,957.5	1,805.5	0.00	0.00	
8,800.0	90.00	358.00	7,429.0	1,217.6	1,954.0	1,895.7	0.00	0.00	
8,900.0	90.00	358.00	7,429.0	1,317.5	1,950.5	1,986.0	0.00	0.00	
9,000.0	90.00	358.00	7,429.0	1,417.4	1,947.1	2,076.2	0.00	0.00	
9,100.0	90.00	358.00	7,429.0	1,517.4	1,943.6	2,166.5	0.00	0.00	
9,200.0	90.00	358.00	7,429.0	1,617.3	1,940.1	2,256.8	0.00	0.00	
9,300.0	90.00	358.00	7,429.0	1,717.3	1,936.6	2,347.0	0.00	0.00	
9,400.0	90.00	358.00	7,429.0	1,817.2	1,933.1	2,437.3	0.00	0.00	
9,500.0	90.00	358.00	7,429.0	1,917.1	1,929.6	2,527.5	0.00	0.00	
9,600.0	90.00	358.00	7,429.0	2,017.1	1,926.1	2,617.8	0.00	0.00	
9,700.0	90.00	358.00	7,429.0	2,117.0	1,922.6	2,708.1	0.00	0.00	
9,800.0	90.00	358.00	7,429.0	2,217.0	1,919.1	2,798.3	0.00	0.00	
9,900.0	90.00	358.00	7,429.0	2,316.9	1,915.6	2,888.6	0.00	0.00	
10,000.0	90.00	358.00	7,429.0	2,416.8	1,912.2	2,978.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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
10,100.0	90.00	358.00	7,429.0	2,516.8	1,908.7	3,069.1	0.00	0.00	
10,200.0	90.00	358.00	7,429.0	2,616.7	1,905.2	3,159.4	0.00	0.00	
10,300.0	90.00	358.00	7,429.0	2,716.6	1,901.7	3,249.6	0.00	0.00	
10,400.0	90.00	358.00	7,429.0	2,816.6	1,898.2	3,339.9	0.00	0.00	
10,500.0	90.00	358.00	7,429.0	2,916.5	1,894.7	3,430.1	0.00	0.00	
10,600.0	90.00	358.00	7,429.0	3,016.5	1,891.2	3,520.4	0.00	0.00	
10,700.0	90.00	358.00	7,429.0	3,116.4	1,887.7	3,610.6	0.00	0.00	
10,800.0	90.00	358.00	7,429.0	3,216.3	1,884.2	3,700.9	0.00	0.00	
10,900.0	90.00	358.00	7,429.0	3,316.3	1,880.7	3,791.2	0.00	0.00	
11,000.0	90.00	358.00	7,429.0	3,416.2	1,877.3	3,881.4	0.00	0.00	
11,100.0	90.00	358.00	7,429.0	3,516.2	1,873.8	3,971.7	0.00	0.00	
11,200.0	90.00	358.00	7,429.0	3,616.1	1,870.3	4,061.9	0.00	0.00	
11,300.0	90.00	358.00	7,429.0	3,716.0	1,866.8	4,152.2	0.00	0.00	
11,400.0	90.00	358.00	7,429.0	3,816.0	1,863.3	4,242.5	0.00	0.00	
11,500.0	90.00	358.00	7,429.0	3,915.9	1,859.8	4,332.7	0.00	0.00	
11,600.0	90.00	358.00	7,429.0	4,015.9	1,856.3	4,423.0	0.00	0.00	
11,700.0	90.00	358.00	7,429.0	4,115.8	1,852.8	4,513.2	0.00	0.00	
11,800.0	90.00	358.00	7,429.0	4,215.7	1,849.3	4,603.5	0.00	0.00	
11,834.9	90.00	358.00	7,429.0	4,250.6	1,848.1	4,635.0	0.00	0.00	TD at 11834.9 - Hwy 52 4W 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
Hwy 52 4W PBHL NEW - plan hits target center - Point	0.00	0.00	7,429.0	4,250.6	1,848.1	1,280,015.63	3,134,869.70	40.101021	-105.017892

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	Start Build 1.00
1,960.5	1,933.0	-25.6	267.1	Start 5021.2 hold at 1960.5 MD
6,981.7	6,719.0	-170.2	1,779.0	Start DLS 8.00 TFO -97.12
8,134.9	7,429.0	552.9	1,977.2	Start 3700.0 hold at 8134.9 MD
11,834.9	7,429.0	4,250.6	1,848.1	TD at 11834.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4W-32H-O268

OH

PLAN #1

Anticollision Report

09 June, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	11,834.9	PLAN #1 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON 22-32 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 22-32 AL - ENCANA - NO SURVEYS						Out of range
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY						Out of range
ANDERSON 32-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,800.0	7,321.0	435.6	344.4	4.776	ES, SF
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,834.9	7,321.0	433.9	344.6	4.857	CC
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON TRUST 1 - KPK WELL - NO SURVEYS						Out of range
ANDERSON TRUST 1 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 2 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,100.0	7,388.0	749.4	683.0	11.279	SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,284.7	7,388.0	726.3	663.7	11.605	CC, ES
ANDERSON TRUST C 1 - ENCANA WELL - GYRO						Out of range
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	1,579.1	1,553.5	149.8	142.3	19.954	CC, ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	4,700.0	4,631.7	721.7	682.2	18.295	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	5,085.3	4,875.3	269.1	236.6	8.288	CC
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,100.0	4,889.4	269.1	236.5	8.262	ES
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,200.0	4,984.7	271.3	238.1	8.186	SF
FEDERAL NOAA 11-32 - ENCANA - SURVEYS						Out of range
FOSTER 33-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 43-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5X - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 8-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER E UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
GENE 11-5 - KERR-MCGEE - SURVEYS						Out of range
HIGHLAND 21-5 - KPK WELL - NO SURVEYS						Out of range
HOPE 31-5 - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 - KPK WELL - NO SURVEYS						Out of range
NELSON 1 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 1 A - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 2 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 3 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 4 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 5 - VESSELS WELL - NO SURVEYS						Out of range
NELSON 5 TT - TEXAS TEA WELL - NO SURVEYS						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	3,442.5	3,297.5	950.3	930.0	46.806	CC
NELSON E UNIT 2 - ENCANA - SURVEYS	3,500.0	3,351.4	950.5	929.7	45.858	ES
NELSON E UNIT 2 - ENCANA - SURVEYS	4,300.0	4,100.0	992.4	966.4	38.174	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	1,169.0	1,140.9	259.2	254.7	57.781	CC, ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	1,700.0	1,610.3	320.6	313.2	43.411	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,038.5	1,027.5	10.4	6.4	2.640	CC, ES, SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	155.0	146.0	305.6	305.1	644.433	CC
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	5,300.0	5,233.1	322.1	275.6	6.913	ES
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	5,400.0	5,331.0	324.5	277.2	6.861	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	2,837.1	2,933.2	652.4	627.7	26.437	CC, ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,100.0	3,142.7	671.4	644.2	24.623	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	4,137.3	4,141.5	351.1	325.3	13.569	CC, ES
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	4,300.0	4,292.1	356.5	329.6	13.249	SF
RAY NELSON 7-8-32 - DD - Plan #1	2,920.4	2,876.1	49.4	35.3	3.495	CC
RAY NELSON 7-8-32 - DD - Plan #1	3,000.0	2,954.6	51.2	34.1	2.994	ES
RAY NELSON 7-8-32 - DD - Plan #1	3,100.0	3,053.1	58.2	37.9	2.864	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,500.0	7,586.7	100.4	20.2	1.252	Level 3, SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,562.4	7,586.7	78.7	19.2	1.322	Level 3, CC, ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,200.0	7,496.6	172.3	119.2	3.248	SF
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,300.0	7,496.6	121.4	84.8	3.315	ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,324.7	7,496.6	118.9	86.3	3.650	CC
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	305.7			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	7,100.0	7,123.6	381.3	315.3	5.778	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 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	219.9	219.6	617.740	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	219.9	219.3	338.780	ES
HWY 4A-32H-O268 - OH - PLAN #1	1,500.0	1,461.9	442.4	437.3	86.549	SF
HWY 4B-32H-O268 - OH - PLAN #1	200.0	201.0	210.1	209.5	324.505	CC, ES
HWY 4B-32H-O268 - OH - PLAN #1	1,500.0	1,472.3	405.5	400.4	78.958	SF
HWY 4C-32H-O268 - OH - PLAN #1	200.0	201.0	200.1	199.4	308.950	CC, ES
HWY 4C-32H-O268 - OH - PLAN #1	1,500.0	1,481.8	371.5	366.3	72.043	SF
HWY 4D-32H-O268 - OH - PLAN #1	200.0	201.0	190.0	189.3	293.394	CC, ES
HWY 4D-32H-O268 - OH - PLAN #1	1,600.0	1,606.0	300.5	294.9	54.148	SF
HWY 4E-32H-O268 - OH - PLAN #1	200.0	201.0	180.2	179.5	278.272	CC, ES
HWY 4E-32H-O268 - OH - PLAN #1	1,700.0	1,711.8	285.0	279.1	48.222	SF
HWY 4F-32H-O268 - OH - PLAN #1	116.3	117.3	170.1	169.8	478.582	CC
HWY 4F-32H-O268 - OH - PLAN #1	200.0	201.0	170.1	169.5	262.714	ES
HWY 4F-32H-O268 - OH - PLAN #1	1,800.0	1,821.5	302.4	296.0	47.016	SF
HWY 4G-32H-O268 - OH - PLAN #1	200.0	201.0	160.0	159.4	247.159	CC, ES
HWY 4G-32H-O268 - OH - PLAN #1	7,300.0	7,279.9	999.4	973.2	38.183	SF
HWY 4H-32H-O268 - OH - Plan #1	200.0	201.0	150.0	149.3	231.604	CC, ES
HWY 4H-32H-O268 - OH - Plan #1	7,850.0	7,478.4	999.8	968.2	31.647	SF
HWY 4I-32H-O268 - OH - PLAN #1	200.0	200.0	140.2	139.5	217.066	CC, ES
HWY 4I-32H-O268 - OH - PLAN #1	7,800.0	7,479.1	853.3	816.2	23.008	SF
HWY 4J-32H-O268 - OH - PLAN #1	200.0	200.0	130.1	129.5	201.468	CC, ES
HWY 4J-32H-O268 - OH - PLAN #1	6,900.0	6,934.1	427.4	382.1	9.444	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	120.0	119.4	185.870	CC
HWY 4K-32H-O268 - OH - PLAN #1	1,800.0	1,837.5	122.5	113.0	13.006	ES
HWY 4K-32H-O268 - OH - PLAN #1	7,400.0	7,445.6	211.0	161.0	4.218	SF
HWY 4L-32H-O268 - OH - PLAN #1	200.0	200.0	110.0	109.3	170.275	CC, ES
HWY 4L-32H-O268 - OH - PLAN #1	1,000.0	991.8	169.7	166.2	49.548	SF
HWY 4M-32H-O268 - OH - PLAN #1	200.0	200.0	100.2	99.5	155.111	CC, ES
HWY 4M-32H-O268 - OH - PLAN #1	1,000.0	993.9	158.0	154.5	46.081	SF
HWY 4N-32H-O268 - OH - PLAN #1	200.0	200.0	90.1	89.4	139.511	CC, ES
HWY 4N-32H-O268 - OH - PLAN #1	1,100.0	1,095.2	162.3	158.5	42.533	SF
HWY 4O-32H-O268 - OH - PLAN #1	200.0	200.0	80.0	79.4	123.913	CC, ES
HWY 4O-32H-O268 - OH - PLAN #1	1,100.0	1,098.5	145.3	141.4	37.838	SF
HWY 4P-32H-O268 - OH - PLAN #1	200.0	200.0	69.9	69.3	108.316	CC, ES
HWY 4P-32H-O268 - OH - PLAN #1	1,200.0	1,202.0	135.6	131.3	31.976	SF
HWY 4Q-32H-O268 - OH - PLAN #1	200.0	200.0	60.2	59.5	93.152	CC, ES
HWY 4Q-32H-O268 - OH - PLAN #1	1,300.0	1,304.2	125.0	120.3	26.822	SF
HWY 4R-32H-O268 - OH - PLAN #1	200.0	200.0	50.1	49.4	77.555	CC, ES
HWY 4R-32H-O268 - OH - PLAN #1	1,400.0	1,406.2	116.6	111.6	23.051	SF
HWY 4S-32H-O268 - OH - PLAN #1	200.0	200.0	40.0	39.4	61.958	CC, ES
HWY 4S-32H-O268 - OH - PLAN #1	11,834.9	11,870.0	992.5	838.0	6.424	SF
HWY 4T-32H-O268 - OH - PLAN #1	200.0	200.0	29.9	29.3	46.362	CC, ES
HWY 4T-32H-O268 - OH - PLAN #1	11,834.9	11,922.4	663.8	509.7	4.308	SF
HWY 4U-32H-O268 - OH - PLAN #1	200.0	200.0	20.1	19.5	31.195	CC, ES
HWY 4U-32H-O268 - OH - PLAN #1	11,834.9	11,952.6	500.1	346.6	3.258	SF
HWY 4V-32H-O268 - OH - PLAN #1	200.0	200.0	10.1	9.4	15.598	CC, ES
HWY 4V-32H-O268 - OH - PLAN #1	11,834.9	11,986.1	337.6	185.8	2.224	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
11,000.0	7,429.0	7,321.0	7,321.0	71.4	12.8	-90.00	4,239.1	1,414.4	944.2	869.5	74.64	12.650		
11,100.0	7,429.0	7,321.0	7,321.0	72.9	12.8	-90.00	4,239.1	1,414.4	856.6	779.3	77.26	11.087		
11,200.0	7,429.0	7,321.0	7,321.0	74.4	12.8	-90.00	4,239.1	1,414.4	772.0	691.8	80.25	9.621		
11,300.0	7,429.0	7,321.0	7,321.0	75.9	12.8	-90.00	4,239.1	1,414.4	691.6	608.0	83.57	8.275		
11,400.0	7,429.0	7,321.0	7,321.0	77.4	12.8	-90.00	4,239.1	1,414.4	616.9	529.8	87.14	7.080		
11,500.0	7,429.0	7,321.0	7,321.0	79.0	12.8	-90.00	4,239.1	1,414.4	550.4	459.8	90.61	6.074		
11,600.0	7,429.0	7,321.0	7,321.0	80.5	12.8	-90.00	4,239.1	1,414.4	495.2	401.9	93.27	5.309		
11,700.0	7,429.0	7,321.0	7,321.0	82.1	12.8	-90.00	4,239.1	1,414.4	455.5	361.6	93.91	4.850		
11,800.0	7,429.0	7,321.0	7,321.0	83.6	12.8	-90.00	4,239.1	1,414.4	435.6	344.4	91.21	4.776 ES, SF		
11,834.9	7,429.0	7,321.0	7,321.0	84.2	12.8	-90.00	4,239.1	1,414.4	433.9	344.6	89.34	4.857 CC		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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						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		
9,600.0	7,429.0	7,388.0	7,388.0	52.4	12.9	-90.00	2,676.0	1,176.4	998.1	932.9	65.26	15.294		
9,700.0	7,429.0	7,388.0	7,388.0	53.6	12.9	-90.00	2,676.0	1,176.4	932.4	866.1	66.26	14.073		
9,800.0	7,429.0	7,388.0	7,388.0	54.9	12.9	-90.00	2,676.0	1,176.4	873.2	806.1	67.03	13.026		
9,900.0	7,429.0	7,388.0	7,388.0	56.1	12.9	-90.00	2,676.0	1,176.4	821.9	754.4	67.44	12.186		
10,000.0	7,429.0	7,388.0	7,388.0	57.4	12.9	-90.00	2,676.0	1,176.4	780.1	712.8	67.31	11.590		
10,100.0	7,429.0	7,388.0	7,388.0	58.7	12.9	-90.00	2,676.0	1,176.4	749.4	683.0	66.44	11.279 SF		
10,200.0	7,429.0	7,388.0	7,388.0	60.1	12.9	-90.00	2,676.0	1,176.4	731.2	666.5	64.72	11.298		
10,284.7	7,429.0	7,388.0	7,388.0	61.2	12.9	-90.00	2,676.0	1,176.4	726.3	663.7	62.58	11.605 CC, ES		
10,300.0	7,429.0	7,388.0	7,388.0	61.4	12.9	-90.00	2,676.0	1,176.4	726.4	664.3	62.13	11.692		
10,400.0	7,429.0	7,388.0	7,388.0	62.8	12.9	-90.00	2,676.0	1,176.4	735.4	676.6	58.82	12.503		
10,500.0	7,429.0	7,388.0	7,388.0	64.2	12.9	-90.00	2,676.0	1,176.4	757.5	702.5	55.05	13.762		
10,600.0	7,429.0	7,388.0	7,388.0	65.6	12.9	-90.00	2,676.0	1,176.4	791.8	740.6	51.14	15.482		
10,700.0	7,429.0	7,388.0	7,388.0	67.0	12.9	-90.00	2,676.0	1,176.4	836.6	789.2	47.40	17.651		
10,800.0	7,429.0	7,388.0	7,388.0	68.5	12.9	-90.00	2,676.0	1,176.4	890.5	846.5	44.03	20.227		
10,900.0	7,429.0	7,388.0	7,388.0	70.0	12.9	-90.00	2,676.0	1,176.4	951.9	910.7	41.14	23.135		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 (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	47.77	202.9	223.5	302.0					
100.0	100.0	89.0	89.0	0.1	0.1	47.85	202.9	224.1	302.3	302.0	0.28	1,088.918		
200.0	200.0	188.7	188.7	0.3	0.3	47.99	202.8	225.2	303.1	302.4	0.63	483.446		
300.0	300.0	289.9	289.9	0.5	0.5	-47.42	202.5	226.3	303.1	302.1	0.98	309.545		
400.0	400.0	399.5	399.4	0.7	0.7	-47.48	200.2	226.5	300.1	298.7	1.35	221.956		
500.0	499.9	507.4	507.2	0.9	0.9	-47.28	193.6	226.3	292.9	291.1	1.74	168.614		
600.0	599.7	615.9	614.9	1.1	1.2	-46.45	181.5	226.7	281.6	279.5	2.16	130.354		
700.0	699.4	719.9	717.5	1.3	1.5	-44.91	164.6	227.7	266.4	263.8	2.63	101.303		
800.0	798.9	814.9	811.0	1.5	1.8	-43.14	147.6	229.8	250.0	246.9	3.12	80.219		
900.0	898.3	912.4	906.7	1.8	2.1	-40.96	129.4	233.5	233.7	230.0	3.65	63.963		
1,000.0	997.4	1,012.8	1,004.9	2.0	2.5	-38.11	108.9	238.3	216.2	211.9	4.26	50.788		
1,100.0	1,096.3	1,110.2	1,099.0	2.3	3.0	-33.81	84.9	244.5	197.2	192.3	4.93	39.967		
1,200.0	1,194.9	1,201.9	1,187.1	2.7	3.4	-28.35	60.5	252.7	179.7	174.1	5.62	31.991		
1,300.0	1,293.3	1,293.6	1,274.6	3.0	3.9	-21.58	35.5	263.7	165.6	159.3	6.28	26.376		
1,400.0	1,391.2	1,385.5	1,362.1	3.4	4.4	-13.92	11.0	277.5	155.9	149.0	6.83	22.811		
1,500.0	1,488.9	1,478.3	1,450.2	3.8	4.9	-5.73	-13.0	294.2	151.0	143.7	7.26	20.800		
1,579.1	1,565.8	1,553.5	1,521.1	4.2	5.4	1.27	-32.9	308.9	149.8	142.3	7.51	19.954 CC, ES		
1,600.0	1,586.1	1,573.3	1,539.9	4.2	5.5	3.12	-38.1	313.0	149.9	142.4	7.56	19.828		
1,700.0	1,682.9	1,668.0	1,629.1	4.7	6.0	11.51	-62.4	333.1	152.3	144.5	7.77	19.598		
1,800.0	1,779.3	1,761.0	1,716.2	5.2	6.6	19.50	-86.9	354.8	158.7	150.7	7.94	19.989		
1,900.0	1,875.2	1,856.0	1,804.2	5.8	7.2	27.56	-114.2	377.9	169.0	160.8	8.17	20.687		
1,960.5	1,933.0	1,914.5	1,858.3	6.1	7.6	32.54	-131.9	391.4	176.2	167.9	8.35	21.099		
2,000.0	1,970.6	1,953.1	1,894.0	6.3	7.9	35.52	-143.2	400.5	181.4	172.9	8.50	21.330		
2,100.0	2,065.9	2,054.2	1,988.2	6.9	8.5	42.01	-170.7	425.1	195.1	186.1	9.04	21.585		
2,200.0	2,161.2	2,147.2	2,075.0	7.4	9.1	47.08	-195.2	447.8	210.3	200.7	9.66	21.771		
2,300.0	2,256.5	2,247.5	2,168.4	8.0	9.8	51.70	-222.0	472.7	227.6	217.1	10.53	21.609		
2,400.0	2,351.8	2,346.3	2,260.7	8.5	10.4	55.40	-246.8	497.5	244.7	233.2	11.51	21.255		
2,500.0	2,447.2	2,442.4	2,350.5	9.1	11.0	58.65	-271.7	521.3	263.2	250.6	12.57	20.934		
2,600.0	2,542.5	2,543.6	2,445.6	9.7	11.6	62.12	-297.8	543.8	281.5	267.7	13.79	20.404		
2,700.0	2,637.8	2,640.0	2,536.6	10.3	12.2	65.37	-322.7	563.3	300.0	285.0	15.06	19.926		
2,800.0	2,733.1	2,725.7	2,617.1	10.8	12.8	67.79	-345.8	581.7	320.8	304.6	16.20	19.803		
2,900.0	2,828.4	2,811.6	2,696.4	11.4	13.4	69.83	-372.2	601.5	346.3	329.0	17.33	19.989		
3,000.0	2,923.7	2,906.2	2,783.1	12.0	14.1	71.63	-402.3	624.3	373.6	355.0	18.53	20.161		
3,100.0	3,019.1	3,007.5	2,876.1	12.5	14.8	73.23	-433.8	649.1	400.5	380.7	19.78	20.246		
3,200.0	3,114.4	3,107.5	2,968.8	13.1	15.5	74.88	-463.9	671.6	426.4	405.3	21.04	20.267		
3,300.0	3,209.7	3,199.0	3,053.9	13.7	16.1	76.34	-491.3	691.2	452.1	429.9	22.21	20.358		
3,400.0	3,305.0	3,286.0	3,134.3	14.3	16.8	77.58	-518.6	709.9	479.7	456.4	23.30	20.586		
3,500.0	3,400.3	3,373.0	3,214.0	14.8	17.4	78.69	-548.0	728.7	509.9	485.5	24.38	20.912		
3,600.0	3,495.6	3,492.0	3,324.0	15.4	18.2	80.13	-586.1	753.6	538.6	512.7	25.86	20.828		
3,700.0	3,591.0	3,611.1	3,435.8	16.0	18.9	81.55	-619.4	777.2	563.2	535.9	27.28	20.643		
3,800.0	3,686.3	3,739.9	3,559.5	16.6	19.5	83.57	-649.6	796.6	583.6	554.8	28.77	20.284		
3,900.0	3,781.6	3,858.6	3,675.8	17.1	20.0	85.93	-670.7	808.2	598.7	568.5	30.19	19.832		
4,000.0	3,876.9	3,962.9	3,778.0	17.7	20.4	87.90	-687.9	818.3	613.5	582.1	31.49	19.485		
4,100.0	3,972.2	4,083.2	3,896.4	18.3	20.8	89.95	-704.6	831.5	626.2	593.3	32.83	19.073		
4,200.0	4,067.5	4,176.7	3,988.6	18.9	21.1	91.45	-716.1	842.4	637.7	603.7	34.00	18.753		
4,300.0	4,162.9	4,257.8	4,068.2	19.4	21.4	92.62	-727.7	852.5	651.5	616.5	35.08	18.573		
4,400.0	4,258.2	4,345.1	4,153.5	20.0	21.8	93.71	-742.1	864.5	667.6	631.4	36.16	18.463		
4,500.0	4,353.5	4,423.2	4,229.3	20.6	22.2	94.53	-757.0	876.1	686.2	649.1	37.13	18.481		
4,600.0	4,448.8	4,543.3	4,345.7	21.2	22.7	95.64	-779.4	895.1	704.4	666.0	38.41	18.337		
4,700.0	4,544.1	4,631.7	4,431.8	21.7	23.1	96.50	-794.7	908.3	721.7	682.2	39.45	18.295 SF		
4,800.0	4,639.4	4,708.4	4,505.9	22.3	23.5	97.13	-810.3	920.3	741.9	701.6	40.37	18.380		
4,900.0	4,734.7	4,794.2	4,588.1	22.9	24.0	97.63	-829.8	935.4	764.0	722.7	41.36	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 4W-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 4W-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 (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	4,830.1	4,872.1	4,661.8	23.5	24.5	97.89	-849.5	950.8	788.2	746.0	42.24	18.659	
5,100.0	4,925.4	4,945.4	4,730.7	24.0	24.9	98.07	-870.1	965.3	815.0	772.0	43.03	18.940	
5,200.0	5,020.7	5,046.3	4,825.7	24.6	25.5	98.45	-898.8	983.1	842.8	798.6	44.14	19.092	
5,300.0	5,116.0	5,136.6	4,911.2	25.2	26.1	98.89	-924.5	997.4	870.9	825.8	45.12	19.302	
5,400.0	5,211.3	5,250.1	5,019.0	25.8	26.7	99.47	-955.4	1,014.5	898.3	851.9	46.39	19.363	
5,500.0	5,306.6	5,344.9	5,109.1	26.3	27.3	99.87	-980.4	1,030.2	924.4	877.0	47.45	19.484	
5,600.0	5,402.0	5,462.7	5,220.8	26.9	27.9	100.27	-1,011.7	1,050.6	950.8	902.0	48.72	19.513	
5,700.0	5,497.3	5,572.5	5,326.2	27.5	28.5	100.81	-1,037.4	1,067.5	974.6	924.7	49.89	19.533	
5,800.0	5,592.6	5,689.7	5,439.7	28.1	29.0	101.56	-1,062.3	1,083.1	997.1	946.0	51.08	19.520	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
1,900.0	1,875.2	1,839.2	1,839.2	5.8	3.2	-16.28	152.3	1,233.6	1,000.0	993.3	6.73	148.651		
1,960.5	1,933.0	1,897.0	1,897.0	6.1	3.3	-16.63	152.3	1,233.6	982.7	975.7	6.97	141.045		
2,000.0	1,970.6	1,934.6	1,934.6	6.3	3.4	-16.83	152.3	1,233.6	971.2	964.1	7.12	136.312		
2,100.0	2,065.9	2,029.9	2,029.9	6.9	3.5	-17.36	152.3	1,233.6	942.2	934.6	7.53	125.118		
2,200.0	2,161.2	2,125.2	2,125.2	7.4	3.7	-17.92	152.3	1,233.6	913.2	905.3	7.94	114.952		
2,300.0	2,256.5	2,220.5	2,220.5	8.0	3.9	-18.52	152.3	1,233.6	884.4	876.0	8.37	105.681		
2,400.0	2,351.8	2,315.8	2,315.8	8.5	4.0	-19.16	152.3	1,233.6	855.6	846.8	8.80	97.197		
2,500.0	2,447.2	2,411.2	2,411.2	9.1	4.2	-19.85	152.3	1,233.6	826.9	817.7	9.25	89.406		
2,600.0	2,542.5	2,506.5	2,506.5	9.7	4.4	-20.58	152.3	1,233.6	798.4	788.7	9.71	82.230		
2,700.0	2,637.8	2,601.8	2,601.8	10.3	4.5	-21.37	152.3	1,233.6	770.0	759.8	10.18	75.604		
2,800.0	2,733.1	2,697.1	2,697.1	10.8	4.7	-22.21	152.3	1,233.6	741.7	731.0	10.68	69.472		
2,900.0	2,828.4	2,792.4	2,792.4	11.4	4.9	-23.13	152.3	1,233.6	713.6	702.4	11.19	63.784		
3,000.0	2,923.7	2,887.7	2,887.7	12.0	5.0	-24.11	152.3	1,233.6	685.7	674.0	11.72	58.500		
3,100.0	3,019.1	2,983.1	2,983.1	12.5	5.2	-25.18	152.3	1,233.6	658.0	645.7	12.28	53.585		
3,200.0	3,114.4	3,078.4	3,078.4	13.1	5.4	-26.34	152.3	1,233.6	630.5	617.6	12.87	49.009		
3,300.0	3,209.7	3,173.7	3,173.7	13.7	5.5	-27.60	152.3	1,233.6	603.3	589.8	13.48	44.745		
3,400.0	3,305.0	3,269.0	3,269.0	14.3	5.7	-28.98	152.3	1,233.6	576.4	562.2	14.14	40.772		
3,500.0	3,400.3	3,364.3	3,364.3	14.8	5.9	-30.49	152.3	1,233.6	549.8	535.0	14.83	37.071		
3,600.0	3,495.6	3,459.6	3,459.6	15.4	6.0	-32.14	152.3	1,233.6	523.6	508.1	15.57	33.626		
3,700.0	3,591.0	3,555.0	3,555.0	16.0	6.2	-33.97	152.3	1,233.6	497.9	481.6	16.37	30.426		
3,800.0	3,686.3	3,650.3	3,650.3	16.6	6.4	-35.98	152.3	1,233.6	472.8	455.6	17.22	27.458		
3,900.0	3,781.6	3,745.6	3,745.6	17.1	6.5	-38.22	152.3	1,233.6	448.2	430.1	18.14	24.716		
4,000.0	3,876.9	3,840.9	3,840.9	17.7	6.7	-40.69	152.3	1,233.6	424.4	405.3	19.12	22.193		
4,100.0	3,972.2	3,936.2	3,936.2	18.3	6.9	-43.45	152.3	1,233.6	401.5	381.3	20.19	19.885		
4,200.0	4,067.5	4,031.5	4,031.5	18.9	7.0	-46.51	152.3	1,233.6	379.6	358.2	21.34	17.788		
4,300.0	4,162.9	4,126.9	4,126.9	19.4	7.2	-49.92	152.3	1,233.6	358.9	336.3	22.57	15.902		
4,400.0	4,258.2	4,222.2	4,222.2	20.0	7.4	-53.71	152.3	1,233.6	339.6	315.8	23.88	14.225		
4,500.0	4,353.5	4,317.5	4,317.5	20.6	7.5	-57.91	152.3	1,233.6	322.1	296.8	25.25	12.756		
4,600.0	4,448.8	4,412.8	4,412.8	21.2	7.7	-62.53	152.3	1,233.6	306.5	279.8	26.66	11.497		
4,700.0	4,544.1	4,508.1	4,508.1	21.7	7.9	-67.57	152.3	1,233.6	293.2	265.1	28.07	10.446		
4,800.0	4,639.4	4,603.4	4,603.4	22.3	8.0	-73.00	152.3	1,233.6	282.6	253.1	29.43	9.601		
4,900.0	4,734.7	4,698.7	4,698.7	22.9	8.2	-78.77	152.3	1,233.6	274.8	244.2	30.67	8.960		
5,000.0	4,830.1	4,794.1	4,794.1	23.5	8.4	-84.78	152.3	1,233.6	270.3	238.6	31.74	8.516		
5,085.3	4,911.3	4,875.3	4,875.3	24.0	8.5	-90.00	152.3	1,233.6	269.1	236.6	32.46	8.288 CC		
5,100.0	4,925.4	4,889.4	4,889.4	24.0	8.5	-90.90	152.3	1,233.6	269.1	236.5	32.57	8.262 ES		
5,200.0	5,020.7	4,984.7	4,984.7	24.6	8.7	-97.01	152.3	1,233.6	271.3	238.1	33.14	8.186 SF		
5,300.0	5,116.0	5,034.0	5,034.0	25.2	8.8	-100.11	152.3	1,233.6	280.6	247.6	32.95	8.515		
5,400.0	5,211.3	5,034.0	5,034.0	25.8	8.8	-100.11	152.3	1,233.6	318.5	288.3	30.19	10.548		
5,500.0	5,306.6	5,034.0	5,034.0	26.3	8.8	-100.11	152.3	1,233.6	379.6	353.0	26.68	14.231		
5,600.0	5,402.0	5,034.0	5,034.0	26.9	8.8	-100.11	152.3	1,233.6	454.8	431.1	23.65	19.229		
5,700.0	5,497.3	5,034.0	5,034.0	27.5	8.8	-100.11	152.3	1,233.6	538.1	516.7	21.34	25.218		
5,800.0	5,592.6	5,034.0	5,034.0	28.1	8.8	-100.11	152.3	1,233.6	626.3	606.7	19.62	31.923		
5,900.0	5,687.9	5,034.0	5,034.0	28.7	8.8	-100.11	152.3	1,233.6	717.6	699.2	18.34	39.126		
6,000.0	5,783.2	5,034.0	5,034.0	29.2	8.8	-100.11	152.3	1,233.6	810.9	793.6	17.38	46.660		
6,100.0	5,878.5	5,034.0	5,034.0	29.8	8.8	-100.11	152.3	1,233.6	905.7	889.1	16.65	54.397		

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 4W-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 4W-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		
2,500.0	2,447.2	2,405.1	2,404.8	9.1	4.2	-73.08	876.0	823.6	998.2	985.2	13.01	76.736		
2,600.0	2,542.5	2,500.7	2,500.5	9.7	4.4	-74.76	876.1	822.2	988.9	975.1	13.78	71.740		
2,700.0	2,637.8	2,597.2	2,596.9	10.3	4.6	-76.47	876.0	820.9	980.5	965.9	14.57	67.304		
2,800.0	2,733.1	2,688.7	2,688.4	10.8	4.7	-78.13	876.0	819.6	973.1	957.7	15.35	63.411		
2,900.0	2,828.4	2,788.6	2,788.3	11.4	4.9	-79.97	876.0	818.1	966.6	950.5	16.14	59.898		
3,000.0	2,923.7	2,882.9	2,882.6	12.0	5.1	-81.73	875.8	816.5	960.8	943.9	16.92	56.789		
3,100.0	3,019.1	2,973.9	2,973.6	12.5	5.2	-83.45	875.8	814.9	956.3	938.6	17.69	54.053		
3,200.0	3,114.4	3,066.7	3,066.4	13.1	5.4	-85.23	876.1	813.2	953.2	934.7	18.46	51.629		
3,300.0	3,209.7	3,161.0	3,160.6	13.7	5.6	-87.05	876.6	811.3	951.2	932.0	19.23	49.474		
3,400.0	3,305.0	3,256.6	3,256.2	14.3	5.7	-88.91	877.1	809.3	950.4	930.4	19.98	47.556		
3,442.5	3,345.5	3,297.5	3,297.1	14.5	5.8	-89.71	877.3	808.4	950.3	930.0	20.30	46.806 CC		
3,500.0	3,400.3	3,351.4	3,350.9	14.8	5.9	-90.76	877.5	807.1	950.5	929.7	20.73	45.858 ES		
3,600.0	3,495.6	3,445.3	3,444.8	15.4	6.1	-92.60	877.9	805.1	951.7	930.3	21.45	44.365		
3,700.0	3,591.0	3,539.1	3,538.6	16.0	6.2	-94.41	878.4	803.1	954.2	932.0	22.16	43.055		
3,800.0	3,686.3	3,632.8	3,632.3	16.6	6.4	-96.21	879.0	801.2	957.8	934.9	22.85	41.910		
3,900.0	3,781.6	3,728.2	3,727.7	17.1	6.6	-98.05	879.7	798.9	962.5	939.0	23.53	40.906		
4,000.0	3,876.9	3,823.8	3,823.3	17.7	6.7	-99.90	880.1	796.2	968.1	944.0	24.19	40.030		
4,100.0	3,972.2	3,916.3	3,915.7	18.3	6.9	-101.68	880.6	793.4	974.9	950.1	24.81	39.292		
4,200.0	4,067.5	4,007.8	4,007.2	18.9	7.1	-103.41	881.3	790.7	983.0	957.6	25.42	38.679		
4,300.0	4,162.9	4,100.0	4,099.3	19.4	7.2	-105.12	882.3	788.1	992.4	966.4	26.00	38.174 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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)				
0.0	0.0	0.0	0.0	0.0	0.0	42.87	225.1	209.0	307.3					
100.0	100.0	92.7	92.7	0.1	0.2	42.87	225.0	208.9	307.1	306.8	0.31	998.373		
200.0	200.0	193.4	193.4	0.3	0.3	42.87	224.8	208.7	306.7	306.1	0.66	468.167		
300.0	300.0	294.2	294.2	0.5	0.5	-52.75	224.4	208.2	305.6	304.6	1.00	304.593		
400.0	400.0	394.9	394.9	0.7	0.7	-53.18	223.9	207.6	303.2	301.8	1.35	223.892		
500.0	499.9	495.5	495.5	0.9	0.9	-53.91	223.1	206.7	299.5	297.8	1.71	175.123		
600.0	599.7	596.0	595.9	1.1	1.0	-54.94	222.2	205.7	294.6	292.5	2.07	142.018		
700.0	699.4	696.3	696.2	1.3	1.2	-56.32	221.2	204.6	288.6	286.2	2.45	117.788		
800.0	798.9	796.4	796.3	1.5	1.4	-58.06	220.0	203.2	281.6	278.8	2.84	99.106		
900.0	898.3	896.2	896.1	1.8	1.6	-60.23	218.6	201.6	273.7	270.5	3.25	84.166		
1,000.0	997.4	991.6	991.5	2.0	1.7	-62.90	218.0	199.6	265.8	262.1	3.69	72.076		
1,100.0	1,096.3	1,080.3	1,080.2	2.3	1.9	-66.24	220.4	197.3	260.3	256.2	4.15	62.788		
1,169.0	1,164.4	1,140.9	1,140.6	2.6	2.0	-68.77	223.9	196.5	259.2	254.7	4.49	57.781 CC, ES		
1,200.0	1,194.9	1,168.0	1,167.7	2.7	2.0	-69.99	226.1	196.2	259.5	254.8	4.64	55.957		
1,300.0	1,293.3	1,257.6	1,256.8	3.0	2.2	-74.19	235.2	195.9	263.2	258.0	5.16	51.037		
1,400.0	1,391.2	1,347.9	1,346.3	3.4	2.4	-78.59	246.7	196.3	270.9	265.2	5.71	47.468		
1,500.0	1,488.9	1,435.2	1,432.6	3.8	2.6	-83.05	260.4	196.2	283.1	276.8	6.26	45.218		
1,600.0	1,586.1	1,526.0	1,521.8	4.2	2.8	-87.62	277.0	196.0	299.7	292.9	6.84	43.840		
1,700.0	1,682.9	1,610.3	1,604.3	4.7	3.1	-91.80	294.1	195.1	320.6	313.2	7.39	43.411 SF		
1,800.0	1,779.3	1,694.4	1,686.1	5.2	3.4	-95.80	313.8	193.3	346.7	338.7	7.93	43.710		
1,900.0	1,875.2	1,782.0	1,770.9	5.8	3.7	-99.68	335.7	190.9	376.8	368.3	8.50	44.322		
1,960.5	1,933.0	1,832.1	1,819.3	6.1	3.9	-101.73	348.7	189.4	396.6	387.7	8.83	44.921		
2,000.0	1,970.6	1,863.5	1,849.5	6.3	4.1	-103.07	357.2	188.3	410.3	401.3	9.03	45.433		
2,100.0	2,065.9	1,948.3	1,930.8	6.9	4.4	-106.34	381.1	185.2	447.4	437.8	9.58	46.710		
2,200.0	2,161.2	2,030.1	2,009.0	7.4	4.8	-109.13	404.7	181.5	486.6	476.5	10.10	48.178		
2,300.0	2,256.5	2,105.7	2,080.8	8.0	5.2	-111.52	427.4	176.4	528.7	518.1	10.57	50.007		
2,400.0	2,351.8	2,187.6	2,158.1	8.5	5.7	-113.79	453.7	170.0	573.7	562.6	11.10	51.702		
2,500.0	2,447.2	2,281.9	2,247.3	9.1	6.2	-115.90	483.9	164.1	618.8	607.0	11.73	52.734		
2,600.0	2,542.5	2,369.6	2,330.3	9.7	6.7	-117.45	512.1	160.3	663.7	651.4	12.34	53.800		
2,700.0	2,637.8	2,455.3	2,411.4	10.3	7.1	-118.89	539.5	155.4	709.4	696.5	12.93	54.886		
2,800.0	2,733.1	2,541.3	2,492.7	10.8	7.6	-120.18	566.9	150.2	755.6	742.0	13.52	55.871		
2,900.0	2,828.4	2,623.8	2,570.7	11.4	8.1	-121.28	593.4	145.1	802.3	788.2	14.10	56.891		
3,000.0	2,923.7	2,704.5	2,646.7	12.0	8.6	-122.24	619.9	139.8	850.0	835.3	14.68	57.905		
3,100.0	3,019.1	2,788.7	2,725.7	12.5	9.1	-123.10	648.3	134.6	898.3	883.0	15.29	58.758		
3,200.0	3,114.4	2,879.4	2,811.1	13.1	9.6	-123.98	678.4	128.5	946.7	930.8	15.95	59.368		
3,300.0	3,209.7	2,972.5	2,898.9	13.7	10.2	-124.81	708.8	122.2	994.8	978.2	16.62	59.847		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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			Distance						Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	103.07	-13.1	56.5	58.6					
100.0	100.0	91.7	91.7	0.1	0.1	102.98	-13.1	56.8	58.3	58.0	0.29	204.486		
200.0	200.0	191.4	191.4	0.3	0.3	102.85	-13.1	57.6	59.1	58.5	0.63	93.706		
300.0	300.0	291.5	291.4	0.5	0.5	7.73	-13.6	58.5	59.2	58.2	0.98	60.440		
400.0	400.0	391.5	391.5	0.7	0.7	8.68	-14.4	59.2	57.5	56.2	1.33	43.247		
500.0	499.9	491.5	491.5	0.9	0.8	10.01	-15.1	59.8	53.9	52.2	1.68	32.112		
600.0	599.7	591.4	591.4	1.1	1.0	11.70	-15.6	60.3	48.6	46.5	2.03	23.935		
700.0	699.4	691.3	691.2	1.3	1.2	14.30	-16.0	60.7	41.4	39.0	2.38	17.374		
800.0	798.9	790.9	790.9	1.5	1.4	18.73	-16.2	60.8	32.4	29.6	2.74	11.816		
900.0	898.3	890.3	890.3	1.8	1.5	28.47	-16.2	60.7	21.9	18.8	3.12	7.013		
1,000.0	997.4	989.4	989.4	2.0	1.7	60.87	-16.1	60.3	11.8	8.1	3.67	3.220		
1,038.5	1,035.5	1,027.5	1,027.5	2.2	1.8	89.27	-16.2	60.1	10.4	6.4	3.92	2.640 CC, ES, SF		
1,100.0	1,096.3	1,088.3	1,088.2	2.3	1.9	131.98	-16.2	59.7	14.1	10.1	4.02	3.512		
1,200.0	1,194.9	1,186.6	1,186.6	2.7	2.0	158.49	-16.1	58.9	28.9	24.7	4.20	6.874		
1,300.0	1,293.3	1,284.8	1,284.8	3.0	2.2	167.41	-15.7	57.8	47.4	42.9	4.50	10.535		
1,400.0	1,391.2	1,382.6	1,382.5	3.4	2.4	171.72	-15.0	56.8	67.9	63.1	4.82	14.088		
1,500.0	1,488.9	1,479.5	1,479.5	3.8	2.6	174.26	-14.2	55.5	90.7	85.6	5.15	17.597		
1,600.0	1,586.1	1,576.0	1,575.9	4.2	2.7	175.78	-13.4	53.8	115.6	110.2	5.49	21.063		
1,700.0	1,682.9	1,672.6	1,672.5	4.7	2.9	176.74	-12.8	52.0	142.5	136.7	5.83	24.443		
1,800.0	1,779.3	1,769.2	1,769.1	5.2	3.1	177.60	-11.7	50.7	170.5	164.4	6.17	27.642		
1,900.0	1,875.2	1,864.4	1,864.3	5.8	3.2	178.33	-10.3	49.5	200.2	193.7	6.51	30.767		
1,960.5	1,933.0	1,922.1	1,922.0	6.1	3.3	178.75	-9.2	48.8	219.0	212.3	6.71	32.640		
2,000.0	1,970.6	1,960.1	1,960.0	6.3	3.4	178.98	-8.6	48.3	231.4	224.6	6.84	33.809		
2,100.0	2,065.9	2,055.7	2,055.5	6.9	3.6	179.34	-7.4	47.5	262.6	255.4	7.18	36.553		
2,200.0	2,161.2	2,152.9	2,152.8	7.4	3.7	179.43	-7.3	47.0	293.4	285.8	7.53	38.970		
2,300.0	2,256.5	2,247.9	2,247.8	8.0	3.9	179.38	-7.8	46.7	323.8	315.9	7.87	41.166		
2,400.0	2,351.8	2,342.6	2,342.4	8.5	4.1	179.34	-8.3	46.3	354.4	346.2	8.20	43.211		
2,500.0	2,447.2	2,437.7	2,437.6	9.1	4.2	179.24	-9.3	46.1	384.8	376.3	8.54	45.066		
2,600.0	2,542.5	2,524.4	2,524.2	9.7	4.4	179.03	-11.0	44.8	416.3	407.4	8.85	47.035		
2,700.0	2,637.8	2,607.2	2,606.9	10.3	4.5	178.83	-12.6	41.4	450.3	441.1	9.15	49.232		
2,800.0	2,733.1	2,698.8	2,698.3	10.8	4.7	178.43	-16.0	36.2	485.6	476.1	9.48	51.244		
2,900.0	2,828.4	2,789.5	2,788.7	11.4	4.9	177.94	-20.5	30.9	521.1	511.3	9.81	53.134		
3,000.0	2,923.7	2,874.3	2,873.1	12.0	5.0	177.37	-26.2	24.6	557.9	547.8	10.12	55.126		
3,100.0	3,019.1	2,962.7	2,961.0	12.5	5.2	176.85	-32.0	17.3	595.6	585.1	10.45	56.975		
3,200.0	3,114.4	3,042.8	3,040.5	13.1	5.4	176.34	-38.2	9.7	634.5	623.7	10.76	58.975		
3,300.0	3,209.7	3,116.5	3,113.3	13.7	5.6	175.77	-45.4	0.8	675.7	664.7	11.04	61.189		
3,400.0	3,305.0	3,212.1	3,207.6	14.3	5.8	175.05	-55.4	-11.5	717.8	706.3	11.44	62.767		
3,500.0	3,400.3	3,302.2	3,296.5	14.8	6.0	174.52	-63.9	-22.7	759.5	747.7	11.80	64.356		
3,600.0	3,495.6	3,373.0	3,366.5	15.4	6.2	174.21	-69.8	-32.2	802.1	790.1	12.08	66.425		
3,700.0	3,591.0	3,449.1	3,441.4	16.0	6.4	173.87	-76.6	-43.8	846.6	834.2	12.38	68.365		
3,800.0	3,686.3	3,534.7	3,525.3	16.6	6.6	173.44	-85.4	-58.3	892.5	879.8	12.74	70.040		
3,900.0	3,781.6	3,611.1	3,600.0	17.1	6.9	173.08	-93.4	-71.7	939.0	926.0	13.06	71.885		
4,000.0	3,876.9	3,703.4	3,690.2	17.7	7.2	172.59	-104.4	-88.6	986.3	972.8	13.48	73.167		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	46.04	212.4	220.2	306.0						
100.0	100.0	91.9	91.9	0.1	0.1	46.10	212.0	220.3	305.8	305.5	0.29	1,048.424			
155.0	155.0	146.0	146.0	0.2	0.2	46.21	211.5	220.6	305.6	305.1	0.47	644.433 CC			
200.0	200.0	186.8	186.8	0.3	0.3	46.27	211.4	221.1	305.9	305.3	0.62	490.377			
300.0	300.0	277.1	277.0	0.5	0.5	-49.19	212.9	223.3	308.3	307.3	0.96	322.313			
400.0	400.0	370.7	370.5	0.7	0.7	-49.33	215.9	227.8	312.2	310.9	1.30	240.461			
500.0	499.9	462.1	461.6	0.9	0.9	-49.50	219.5	234.2	317.2	315.6	1.64	193.104			
600.0	599.7	555.5	554.5	1.1	1.1	-49.69	224.0	243.2	323.6	321.6	2.00	161.689			
700.0	699.4	651.0	649.1	1.3	1.4	-49.92	229.2	254.4	330.6	328.3	2.38	139.050			
800.0	798.9	741.1	738.2	1.5	1.6	-50.09	234.5	267.1	338.7	335.9	2.76	122.559			
900.0	898.3	839.7	835.2	1.8	2.0	-50.12	239.7	283.7	347.1	343.9	3.20	108.448			
1,000.0	997.4	944.2	938.1	2.0	2.3	-50.08	243.2	302.1	353.7	350.0	3.69	95.959			
1,100.0	1,096.3	1,042.1	1,034.2	2.3	2.7	-49.89	244.4	320.4	358.5	354.3	4.20	85.442			
1,200.0	1,194.9	1,132.8	1,122.6	2.7	3.1	-49.37	244.4	340.9	364.0	359.3	4.72	77.059			
1,300.0	1,293.3	1,225.0	1,211.7	3.0	3.5	-48.77	244.5	364.4	370.8	365.5	5.29	70.118			
1,400.0	1,391.2	1,321.0	1,303.9	3.4	4.0	-48.14	244.7	390.9	378.0	372.1	5.90	64.118			
1,500.0	1,488.9	1,421.1	1,400.0	3.8	4.5	-47.59	244.6	419.3	384.5	377.9	6.56	58.647			
1,600.0	1,586.1	1,526.5	1,501.0	4.2	5.1	-47.08	243.2	449.4	389.2	381.9	7.26	53.595			
1,700.0	1,682.9	1,622.2	1,593.0	4.7	5.6	-46.95	242.2	475.7	392.1	384.1	7.95	49.321			
1,800.0	1,779.3	1,719.1	1,686.0	5.2	6.1	-47.09	242.4	502.8	395.0	386.3	8.69	45.433			
1,900.0	1,875.2	1,817.8	1,780.5	5.8	6.6	-47.34	242.7	531.3	397.4	387.9	9.49	41.860			
1,960.5	1,933.0	1,882.7	1,842.6	6.1	7.0	-47.51	242.2	550.1	398.0	387.9	10.02	39.700			
2,000.0	1,970.6	1,924.1	1,882.3	6.3	7.2	-47.61	241.4	562.1	397.9	387.5	10.37	38.383			
2,100.0	2,065.9	2,026.4	1,980.4	6.9	7.7	-47.90	239.3	590.9	396.9	385.7	11.22	35.365			
2,200.0	2,161.2	2,127.9	2,077.9	7.4	8.3	-48.30	237.6	618.9	395.8	383.7	12.10	32.708			
2,300.0	2,256.5	2,229.5	2,175.5	8.0	8.8	-48.60	235.1	646.9	394.1	381.1	12.99	30.330			
2,400.0	2,351.8	2,331.3	2,273.4	8.5	9.3	-48.90	232.2	674.8	392.1	378.2	13.88	28.258			
2,500.0	2,447.2	2,432.1	2,370.6	9.1	9.8	-49.35	229.8	701.4	389.7	374.9	14.79	26.355			
2,600.0	2,542.5	2,533.0	2,467.8	9.7	10.3	-49.74	227.0	728.2	387.1	371.4	15.70	24.657			
2,700.0	2,637.8	2,635.1	2,566.5	10.3	10.8	-50.32	224.8	754.3	384.3	367.6	16.65	23.082			
2,800.0	2,733.1	2,737.4	2,665.5	10.8	11.3	-50.89	221.8	780.1	380.6	363.0	17.60	21.625			
2,900.0	2,828.4	2,841.0	2,766.0	11.4	11.8	-51.69	219.4	804.7	376.4	357.8	18.58	20.253			
3,000.0	2,923.7	2,945.5	2,867.9	12.0	12.2	-52.69	216.7	827.7	370.9	351.3	19.62	18.905			
3,100.0	3,019.1	3,039.4	2,959.5	12.5	12.6	-53.68	214.6	848.3	365.7	345.0	20.65	17.710			
3,200.0	3,114.4	3,130.6	3,048.2	13.1	13.1	-54.57	213.7	870.0	362.8	341.1	21.68	16.735			
3,300.0	3,209.7	3,229.4	3,143.9	13.7	13.5	-55.54	213.6	894.3	361.2	338.5	22.75	15.878			
3,400.0	3,305.0	3,330.1	3,241.4	14.3	14.0	-56.45	213.1	919.4	359.7	335.8	23.84	15.087			
3,500.0	3,400.3	3,436.6	3,344.5	14.8	14.5	-57.33	211.7	946.0	357.5	332.6	24.96	14.325			
3,600.0	3,495.6	3,538.1	3,442.9	15.4	15.0	-58.03	208.3	970.9	353.6	327.6	26.04	13.581			
3,700.0	3,591.0	3,639.7	3,541.4	16.0	15.5	-58.77	204.8	995.6	349.6	322.4	27.14	12.881			
3,800.0	3,686.3	3,732.8	3,631.8	16.6	15.9	-59.64	202.8	1,017.9	346.4	318.1	28.24	12.268			
3,900.0	3,781.6	3,830.4	3,726.5	17.1	16.4	-60.73	202.3	1,041.1	344.6	315.2	29.40	11.721			
4,000.0	3,876.9	3,933.5	3,826.8	17.7	16.8	-62.03	202.4	1,065.0	343.0	312.4	30.62	11.202			
4,100.0	3,972.2	4,039.0	3,929.5	18.3	17.3	-63.25	200.3	1,089.0	339.6	307.8	31.85	10.662			
4,200.0	4,067.5	4,134.7	4,022.4	18.9	17.7	-64.17	197.5	1,111.7	336.2	303.1	33.03	10.177			
4,300.0	4,162.9	4,231.0	4,115.4	19.4	18.2	-64.85	195.3	1,136.5	334.3	300.1	34.18	9.779			
4,400.0	4,258.2	4,332.0	4,212.8	20.0	18.7	-65.51	193.0	1,163.1	332.8	297.5	35.33	9.422			
4,500.0	4,353.5	4,434.6	4,312.6	20.6	19.2	-66.76	191.6	1,186.8	330.7	294.1	36.55	9.047			
4,600.0	4,448.8	4,534.8	4,410.7	21.2	19.6	-68.52	191.4	1,207.3	328.4	290.5	37.87	8.671			
4,700.0	4,544.1	4,635.0	4,509.1	21.7	19.9	-70.48	191.2	1,226.7	326.0	286.8	39.21	8.314			
4,800.0	4,639.4	4,732.8	4,605.2	22.3	20.3	-72.64	191.7	1,244.6	324.1	283.6	40.55	7.995			
4,900.0	4,734.7	4,833.0	4,704.0	22.9	20.6	-75.20	193.2	1,261.2	323.2	281.3	41.90	7.712			

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 4W-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 4W-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							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	4,830.1	4,934.2	4,804.2	23.5	20.9	-78.20	194.7	1,275.8	322.1	278.9	43.24	7.449		
5,100.0	4,925.4	5,034.0	4,903.2	24.0	21.1	-81.55	196.2	1,287.8	321.4	276.9	44.52	7.220		
5,173.7	4,995.6	5,108.2	4,977.0	24.5	21.3	-84.35	197.3	1,295.1	321.3	275.9	45.37	7.080		
5,200.0	5,020.7	5,134.4	5,003.2	24.6	21.3	-85.42	197.6	1,297.1	321.3	275.6	45.66	7.037		
5,300.0	5,116.0	5,233.1	5,101.7	25.2	21.5	-89.65	198.9	1,303.6	322.1	275.6	46.60	6.913 ES		
5,400.0	5,211.3	5,331.0	5,199.4	25.8	21.6	-94.12	199.8	1,308.3	324.5	277.2	47.30	6.861 SF		
5,500.0	5,306.6	5,428.2	5,296.5	26.3	21.7	-98.68	200.5	1,311.6	328.7	281.0	47.71	6.889		
5,600.0	5,402.0	5,524.0	5,392.3	26.9	21.8	-103.21	201.0	1,314.0	334.9	287.1	47.83	7.002		
5,700.0	5,497.3	5,618.9	5,487.2	27.5	21.9	-107.58	201.6	1,315.9	343.6	295.9	47.69	7.205		
5,800.0	5,592.6	5,714.1	5,582.4	28.1	22.0	-111.79	202.3	1,317.4	354.6	307.3	47.32	7.493		
5,900.0	5,687.9	5,809.3	5,677.6	28.7	22.1	-115.78	203.1	1,318.7	367.6	320.9	46.78	7.859		
6,000.0	5,783.2	5,904.1	5,772.4	29.2	22.2	-119.56	203.9	1,319.4	382.7	336.6	46.08	8.304		
6,100.0	5,878.5	5,998.5	5,866.7	29.8	22.2	-123.15	204.5	1,319.4	399.6	354.3	45.27	8.826		
6,200.0	5,973.9	6,093.5	5,961.7	30.4	22.3	-126.48	205.2	1,319.2	418.1	373.7	44.43	9.410		
6,300.0	6,069.2	6,188.4	6,056.7	31.0	22.4	-129.50	206.1	1,319.3	438.1	394.5	43.62	10.042		
6,400.0	6,164.5	6,282.9	6,151.1	31.5	22.5	-132.23	207.2	1,319.4	459.3	416.4	42.85	10.719		
6,500.0	6,259.8	6,376.9	6,245.1	32.1	22.6	-134.70	208.5	1,319.4	481.7	439.6	42.11	11.437		
6,600.0	6,355.1	6,470.2	6,338.5	32.7	22.6	-136.96	210.0	1,319.2	505.2	463.8	41.43	12.194		
6,700.0	6,450.4	6,564.8	6,433.0	33.3	22.7	-139.04	211.7	1,318.8	529.8	489.0	40.82	12.979		
6,800.0	6,545.8	6,660.7	6,528.9	33.9	22.8	-140.96	213.6	1,318.5	554.9	514.6	40.28	13.777		
6,900.0	6,641.1	6,755.9	6,624.0	34.4	22.9	-142.68	215.4	1,318.4	580.5	540.7	39.79	14.587		
6,981.7	6,719.0	6,833.3	6,701.4	34.9	22.9	-143.99	216.9	1,318.3	601.7	562.3	39.44	15.256		
7,000.0	6,736.4	6,850.6	6,718.7	35.0	23.0	-139.40	217.2	1,318.2	606.4	567.0	39.37	15.404		
7,050.0	6,784.1	6,900.0	6,768.2	35.3	23.0	-127.11	218.0	1,318.1	617.6	578.5	39.10	15.794		
7,100.0	6,831.6	6,950.2	6,818.3	35.6	23.0	-116.15	218.5	1,317.9	626.5	587.8	38.74	16.173		
7,150.0	6,878.6	6,996.3	6,864.4	35.8	23.1	-107.08	218.9	1,317.7	633.4	595.1	38.26	16.555		
7,200.0	6,925.1	7,041.7	6,909.8	36.1	23.1	-100.12	219.3	1,317.5	638.4	600.7	37.69	16.939		
7,250.0	6,970.6	7,088.7	6,956.8	36.3	23.2	-95.14	219.9	1,317.4	641.8	604.8	37.04	17.326		
7,300.0	7,015.1	7,134.2	7,002.4	36.5	23.2	-91.73	220.4	1,317.4	643.7	607.4	36.30	17.731		
7,350.0	7,058.2	7,176.3	7,044.4	36.8	23.2	-89.48	220.9	1,317.4	644.3	608.8	35.46	18.169		
7,400.0	7,099.8	7,217.1	7,085.2	37.0	23.3	-88.19	221.5	1,317.3	644.0	609.5	34.54	18.649		
7,450.0	7,139.7	7,256.3	7,124.5	37.2	23.3	-87.67	222.2	1,317.3	643.2	609.7	33.53	19.181		
7,500.0	7,177.7	7,293.7	7,161.9	37.4	23.4	-87.71	222.9	1,317.1	642.1	609.7	32.47	19.778		
7,550.0	7,213.6	7,329.5	7,197.6	37.6	23.4	-88.18	223.6	1,316.9	641.1	609.8	31.36	20.441		
7,600.0	7,247.2	7,363.0	7,231.1	37.8	23.4	-88.94	224.2	1,316.7	640.5	610.3	30.26	21.167		
7,614.2	7,256.3	7,372.2	7,240.3	37.8	23.4	-89.19	224.4	1,316.7	640.5	610.6	29.95	21.385		
7,650.0	7,278.3	7,394.4	7,262.5	38.0	23.4	-89.86	224.7	1,316.5	640.8	611.6	29.21	21.939		
7,700.0	7,306.9	7,423.9	7,292.0	38.2	23.5	-90.88	225.3	1,316.3	642.1	613.8	28.27	22.717		
7,750.0	7,332.7	7,450.7	7,318.8	38.4	23.5	-91.85	225.7	1,316.1	644.9	617.4	27.50	23.450		
7,800.0	7,355.7	7,474.6	7,342.7	38.6	23.5	-92.66	226.1	1,316.0	649.5	622.5	26.98	24.072		
7,850.0	7,375.7	7,495.5	7,363.6	38.8	23.5	-93.26	226.4	1,315.8	656.1	629.4	26.77	24.514		
7,900.0	7,392.6	7,513.3	7,381.4	39.0	23.5	-93.57	226.7	1,315.7	665.0	638.1	26.89	24.731		
7,950.0	7,406.4	7,527.9	7,396.0	39.2	23.6	-93.55	227.0	1,315.7	676.1	648.8	27.35	24.719		
8,000.0	7,416.9	7,539.3	7,407.4	39.4	23.6	-93.16	227.1	1,315.6	689.7	661.5	28.13	24.516		
8,050.0	7,424.2	7,547.4	7,415.5	39.6	23.6	-92.37	227.3	1,315.5	705.6	676.4	29.17	24.188		
8,100.0	7,428.2	7,552.2	7,420.2	39.8	23.6	-91.19	227.3	1,315.5	723.6	693.2	30.39	23.811		
8,134.9	7,429.0	7,553.5	7,421.6	39.9	23.6	-90.13	227.3	1,315.5	737.5	706.1	31.31	23.552		
8,200.0	7,429.0	7,554.5	7,422.6	40.2	23.6	-90.22	227.4	1,315.5	766.4	733.3	33.10	23.154		
8,300.0	7,429.0	7,556.0	7,424.1	40.7	23.6	-90.35	227.4	1,315.5	819.1	783.3	35.80	22.879		
8,400.0	7,429.0	7,557.6	7,425.6	41.3	23.6	-90.48	227.4	1,315.5	880.0	841.7	38.25	23.007		
8,500.0	7,429.0	7,559.1	7,427.1	41.9	23.6	-90.61	227.4	1,315.5	947.5	907.2	40.37	23.472		

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 4W-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 4W-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						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		
1,600.0	1,586.1	1,906.7	1,882.9	4.2	8.3	-75.13	820.9	573.2	988.2	980.1	8.10	122.046		
1,700.0	1,682.9	2,023.7	1,991.1	4.7	9.1	-78.60	790.4	541.0	946.1	937.2	8.93	105.910		
1,800.0	1,779.3	2,105.3	2,066.1	5.2	9.7	-81.49	768.2	517.6	904.0	894.1	9.94	90.937		
1,900.0	1,875.2	2,186.0	2,140.3	5.8	10.3	-84.62	746.3	494.4	863.5	852.5	11.07	77.997		
1,960.5	1,933.0	2,234.4	2,184.8	6.1	10.7	-86.63	733.2	480.5	840.1	828.3	11.82	71.088		
2,000.0	1,970.6	2,265.9	2,213.6	6.3	10.9	-87.82	724.6	471.5	825.3	813.0	12.32	66.964		
2,100.0	2,065.9	2,345.6	2,286.9	6.9	11.5	-90.98	703.0	448.6	789.7	776.1	13.68	57.741		
2,200.0	2,161.2	2,425.3	2,360.1	7.4	12.1	-94.35	681.3	425.8	757.4	742.2	15.12	50.087		
2,300.0	2,256.5	2,505.0	2,433.4	8.0	12.7	-97.91	659.7	402.9	728.5	711.9	16.64	43.785		
2,400.0	2,351.8	2,584.7	2,506.6	8.5	13.3	-101.65	638.1	380.0	703.8	685.5	18.21	38.650		
2,500.0	2,447.2	2,664.5	2,579.8	9.1	13.8	-105.56	616.4	357.2	683.4	663.6	19.79	34.527		
2,600.0	2,542.5	2,744.2	2,653.1	9.7	14.4	-109.60	594.8	334.3	667.9	646.6	21.35	31.279		
2,700.0	2,637.8	2,823.9	2,726.3	10.3	15.0	-113.75	573.2	311.4	657.6	634.8	22.84	28.792		
2,800.0	2,733.1	2,903.6	2,799.5	10.8	15.6	-117.95	551.5	288.6	652.8	628.6	24.21	26.965		
2,837.1	2,768.5	2,933.2	2,826.7	11.0	15.8	-119.52	543.5	280.1	652.4	627.7	24.68	26.437 CC, ES		
2,900.0	2,828.4	2,983.3	2,872.8	11.4	16.2	-122.18	529.9	265.7	653.5	628.1	25.42	25.711		
3,000.0	2,923.7	3,063.0	2,946.0	12.0	16.8	-126.37	508.2	242.9	659.8	633.3	26.44	24.952		
3,100.0	3,019.1	3,142.7	3,019.2	12.5	17.4	-130.50	486.6	220.0	671.4	644.2	27.27	24.623 SF		
3,200.0	3,114.4	3,222.5	3,092.5	13.1	17.9	-134.51	465.0	197.1	688.2	660.3	27.90	24.664		
3,300.0	3,209.7	3,302.2	3,165.7	13.7	18.5	-138.38	443.3	174.3	709.7	681.4	28.36	25.022		
3,400.0	3,305.0	3,381.9	3,239.0	14.3	19.1	-142.07	421.7	151.4	735.6	706.9	28.68	25.651		
3,500.0	3,400.3	3,461.6	3,312.2	14.8	19.7	-145.58	400.1	128.5	765.4	736.5	28.87	26.508		
3,600.0	3,495.6	3,541.3	3,385.4	15.4	20.3	-148.89	378.4	105.7	798.6	769.6	28.98	27.555		
3,700.0	3,591.0	3,621.0	3,458.7	16.0	20.9	-152.00	356.8	82.8	834.9	805.9	29.03	28.758		
3,800.0	3,686.3	3,700.8	3,531.9	16.6	21.5	-154.91	335.1	59.9	873.8	844.8	29.04	30.087		
3,900.0	3,781.6	3,780.5	3,605.1	17.1	22.1	-157.62	313.5	37.1	915.1	886.1	29.04	31.512		
4,000.0	3,876.9	3,860.2	3,678.4	17.7	22.6	-160.15	291.9	14.2	958.4	929.4	29.03	33.010		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error: 0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						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		
1,700.0	1,682.9	1,883.2	1,864.7	4.7	5.8	-66.00	781.0	722.1	983.1	974.7	8.40	116.998		
1,800.0	1,779.3	1,976.8	1,954.9	5.2	6.3	-66.99	756.3	721.8	949.3	940.3	9.09	104.409		
1,900.0	1,875.2	2,069.9	2,044.6	5.8	6.7	-68.14	731.7	721.5	915.1	905.3	9.80	93.353		
1,960.5	1,933.0	2,126.0	2,098.8	6.1	7.0	-68.92	716.9	721.3	894.1	883.9	10.24	87.326		
2,000.0	1,970.6	2,162.5	2,134.0	6.3	7.2	-69.32	707.2	721.2	880.4	869.9	10.52	83.669		
2,100.0	2,065.9	2,255.1	2,223.3	6.9	7.6	-70.39	682.8	720.9	845.9	834.7	11.24	75.250		
2,200.0	2,161.2	2,347.7	2,312.6	7.4	8.1	-71.55	658.3	720.5	811.7	799.7	11.96	67.882		
2,300.0	2,256.5	2,440.3	2,402.0	8.0	8.5	-72.81	633.9	720.2	777.8	765.1	12.67	61.395		
2,400.0	2,351.8	2,532.9	2,491.3	8.5	9.0	-74.18	609.4	719.9	744.3	730.9	13.37	55.653		
2,500.0	2,447.2	2,625.5	2,580.6	9.1	9.5	-75.67	585.0	719.6	711.2	697.1	14.07	50.548		
2,600.0	2,542.5	2,718.1	2,669.9	9.7	9.9	-77.30	560.5	719.3	678.6	663.9	14.76	45.990		
2,700.0	2,637.8	2,810.7	2,759.2	10.3	10.4	-79.09	536.1	719.0	646.6	631.2	15.43	41.908		
2,800.0	2,733.1	2,903.3	2,848.5	10.8	10.8	-81.05	511.7	718.6	615.2	599.1	16.09	38.243		
2,900.0	2,828.4	2,995.9	2,937.8	11.4	11.3	-83.21	487.2	718.3	584.6	567.9	16.73	34.945		
3,000.0	2,923.7	3,088.4	3,027.1	12.0	11.7	-85.59	462.8	718.0	554.9	537.5	17.35	31.971		
3,100.0	3,019.1	3,181.0	3,116.4	12.5	12.2	-88.22	438.3	717.7	526.2	508.2	17.97	29.286		
3,200.0	3,114.4	3,273.6	3,205.7	13.1	12.6	-91.12	413.9	717.4	498.7	480.1	18.57	26.856		
3,300.0	3,209.7	3,366.2	3,295.0	13.7	13.1	-94.33	389.4	717.1	472.6	453.4	19.17	24.651		
3,400.0	3,305.0	3,458.8	3,384.3	14.3	13.5	-97.86	365.0	716.8	448.2	428.4	19.79	22.644		
3,500.0	3,400.3	3,551.4	3,473.6	14.8	14.0	-101.75	340.5	716.4	425.7	405.3	20.46	20.812		
3,600.0	3,495.6	3,644.0	3,562.9	15.4	14.4	-106.00	316.1	716.1	405.6	384.4	21.19	19.143		
3,700.0	3,591.0	3,736.6	3,652.2	16.0	14.9	-110.62	291.6	715.8	388.1	366.1	22.00	17.640		
3,800.0	3,686.3	3,829.2	3,741.5	16.6	15.3	-115.58	267.2	715.5	373.5	350.7	22.89	16.322		
3,900.0	3,781.6	3,921.8	3,830.8	17.1	15.8	-120.86	242.8	715.2	362.4	338.6	23.82	15.216		
4,000.0	3,876.9	4,014.4	3,920.1	17.7	16.2	-126.37	218.3	714.9	355.0	330.2	24.74	14.348		
4,100.0	3,972.2	4,106.9	4,009.4	18.3	16.7	-132.03	193.9	714.6	351.4	325.8	25.59	13.734		
4,137.3	4,007.8	4,141.5	4,042.8	18.5	16.9	-134.16	184.7	714.4	351.1	325.3	25.88	13.569 CC, ES		
4,200.0	4,067.5	4,199.5	4,098.8	18.9	17.2	-137.73	169.4	714.2	351.9	325.6	26.32	13.372		
4,300.0	4,162.9	4,292.1	4,188.1	19.4	17.6	-143.36	145.0	713.9	356.5	329.6	26.91	13.249 SF		
4,400.0	4,258.2	4,384.7	4,277.4	20.0	18.1	-148.82	120.5	713.6	364.9	337.5	27.35	13.341		
4,500.0	4,353.5	4,477.3	4,366.7	20.6	18.5	-154.02	96.1	713.3	376.9	349.2	27.69	13.614		
4,600.0	4,448.8	4,569.9	4,456.0	21.2	19.0	-158.90	71.6	713.0	392.2	364.3	27.96	14.029		
4,700.0	4,544.1	4,662.5	4,545.3	21.7	19.4	-163.43	47.2	712.7	410.4	382.2	28.22	14.545		
4,800.0	4,639.4	4,755.1	4,634.6	22.3	19.9	-167.58	22.7	712.3	431.2	402.7	28.52	15.119		
4,900.0	4,734.7	4,847.7	4,723.9	22.9	20.3	-171.38	-1.7	712.0	454.2	425.3	28.90	15.717		
5,000.0	4,830.1	4,940.3	4,813.2	23.5	20.8	-174.83	-26.2	711.7	479.0	449.7	29.37	16.311		
5,100.0	4,925.4	5,032.9	4,902.5	24.0	21.2	-177.95	-50.6	711.4	505.5	475.6	29.94	16.883		
5,200.0	5,020.7	5,125.5	4,991.8	24.6	21.7	-179.22	-75.0	711.1	533.3	502.7	30.60	17.427		
5,300.0	5,116.0	5,218.0	5,081.1	25.2	22.1	-176.65	-99.5	710.8	562.3	531.0	31.34	17.942		
5,400.0	5,211.3	5,310.6	5,170.4	25.8	22.6	-174.33	-123.9	710.5	592.3	560.1	32.13	18.433		
5,500.0	5,306.6	5,403.2	5,259.7	26.3	23.0	-172.22	-148.4	710.1	623.1	590.1	32.96	18.903		
5,600.0	5,402.0	5,495.8	5,349.0	26.9	23.5	-170.31	-172.8	709.8	654.6	620.8	33.82	19.356		
5,700.0	5,497.3	5,588.4	5,438.3	27.5	23.9	-168.56	-197.3	709.5	686.8	652.1	34.69	19.796		
5,800.0	5,592.6	5,681.0	5,527.6	28.1	24.4	-166.97	-221.7	709.2	719.5	684.0	35.58	20.225		
5,900.0	5,687.9	5,773.6	5,616.9	28.7	24.9	-165.51	-246.2	708.9	752.7	716.3	36.46	20.645		
6,000.0	5,783.2	5,866.2	5,706.3	29.2	25.3	-164.17	-270.6	708.6	786.3	749.0	37.35	21.055		
6,100.0	5,878.5	5,958.8	5,795.6	29.8	25.8	-162.93	-295.1	708.3	820.3	782.1	38.23	21.458		
6,200.0	5,973.9	6,051.4	5,884.9	30.4	26.2	-161.80	-319.5	707.9	854.6	815.5	39.11	21.853		
6,300.0	6,069.2	6,144.0	5,974.2	31.0	26.7	-160.74	-344.0	707.6	889.2	849.2	39.98	22.241		
6,400.0	6,164.5	6,236.6	6,063.5	31.5	27.1	-159.77	-368.4	707.3	924.0	883.2	40.85	22.620		
6,500.0	6,259.8	6,329.1	6,152.8	32.1	27.6	-158.86	-392.8	707.0	959.0	917.3	41.71	22.993		
6,600.0	6,355.1	6,421.7	6,242.1	32.7	28.0	-158.02	-417.3	706.7	994.3	951.7	42.57	23.358		

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 4W-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 4W-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 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	50.20	195.6	234.7	305.7					
100.0	100.0	91.0	91.0	0.1	0.1	50.20	195.6	234.7	305.6	305.3	0.28	1,078.361		
200.0	200.0	191.0	191.0	0.3	0.3	50.20	195.6	234.7	305.6	304.9	0.63	484.964		
300.0	300.0	291.0	291.0	0.5	0.5	-45.39	195.6	234.7	304.9	304.0	0.98	311.297		
400.0	400.0	391.0	391.0	0.7	0.7	-45.75	195.6	234.7	303.1	301.8	1.33	227.680		
500.0	499.9	490.9	490.9	0.9	0.8	-46.37	195.6	234.7	300.1	298.4	1.69	177.849		
600.0	599.7	589.2	589.2	1.1	1.0	-46.98	194.7	235.8	296.1	294.1	2.05	144.545		
700.0	699.4	687.5	687.3	1.3	1.2	-47.20	191.7	239.5	291.6	289.1	2.43	120.119		
800.0	798.9	785.7	785.3	1.5	1.4	-47.02	186.6	245.8	286.3	283.5	2.83	101.017		
900.0	898.3	883.9	882.7	1.8	1.6	-46.41	179.4	254.6	280.5	277.2	3.28	85.485		
1,000.0	997.4	981.8	979.5	2.0	1.9	-45.35	170.1	266.1	274.2	270.4	3.78	72.620		
1,100.0	1,096.3	1,079.3	1,075.4	2.3	2.2	-43.80	158.7	280.0	267.4	263.1	4.32	61.923		
1,200.0	1,194.9	1,177.4	1,171.2	2.7	2.6	-41.77	145.4	296.3	260.4	255.5	4.89	53.217		
1,300.0	1,293.3	1,276.6	1,268.0	3.0	3.0	-39.73	131.6	313.2	252.5	247.1	5.49	46.042		
1,400.0	1,391.2	1,375.9	1,364.8	3.4	3.3	-37.81	117.8	330.2	243.7	237.6	6.08	40.067		
1,500.0	1,488.9	1,475.1	1,461.5	3.8	3.7	-35.99	104.0	347.1	233.7	227.0	6.68	34.993		
1,600.0	1,586.1	1,574.2	1,558.2	4.2	4.1	-34.27	90.2	364.0	222.6	215.3	7.27	30.606		
1,700.0	1,682.9	1,673.2	1,654.8	4.7	4.6	-32.62	76.4	380.9	210.3	202.4	7.86	26.747		
1,800.0	1,779.3	1,772.1	1,751.3	5.2	5.0	-31.02	62.7	397.8	196.6	188.2	8.44	23.300		
1,900.0	1,875.2	1,870.9	1,847.6	5.8	5.4	-29.44	49.0	414.6	181.7	172.7	9.00	20.179		
1,960.5	1,933.0	1,930.5	1,905.8	6.1	5.6	-28.49	40.7	424.8	172.0	162.6	9.34	18.420		
2,000.0	1,970.6	1,969.4	1,943.7	6.3	5.8	-27.81	35.2	431.5	165.5	156.0	9.55	17.338		
2,100.0	2,065.9	2,067.9	2,039.8	6.9	6.2	-25.82	21.5	448.3	149.2	139.2	10.03	14.871		
2,200.0	2,161.2	2,166.4	2,135.9	7.4	6.6	-23.34	7.8	465.1	133.1	122.7	10.44	12.751		
2,300.0	2,256.5	2,265.0	2,232.0	8.0	7.0	-20.20	-5.9	481.9	117.4	106.6	10.74	10.930		
2,400.0	2,351.8	2,363.5	2,328.1	8.5	7.4	-16.11	-19.6	498.7	102.1	91.2	10.88	9.378		
2,500.0	2,447.2	2,462.0	2,424.2	9.1	7.9	-10.62	-33.3	515.5	87.4	76.6	10.84	8.070		
2,600.0	2,542.5	2,560.5	2,520.3	9.7	8.3	-3.06	-47.0	532.3	73.9	63.3	10.61	6.967		
2,700.0	2,637.8	2,659.0	2,616.4	10.3	8.7	7.55	-60.7	549.2	62.2	51.8	10.46	5.949		
2,800.0	2,733.1	2,757.5	2,712.5	10.8	9.1	22.19	-74.4	566.0	53.5	42.4	11.09	4.826		
2,900.0	2,828.4	2,856.0	2,808.6	11.4	9.5	40.59	-88.1	582.8	49.5	36.1	13.43	3.686		
2,920.4	2,847.9	2,876.1	2,828.2	11.5	9.6	44.59	-90.9	586.2	49.4	35.3	14.13	3.495 CC		
3,000.0	2,923.7	2,954.6	2,904.7	12.0	9.9	59.83	-101.8	599.6	51.2	34.1	17.12	2.994 ES		
3,100.0	3,019.1	3,053.1	3,000.8	12.5	10.4	76.17	-115.5	616.4	58.2	37.9	20.33	2.864 SF		
3,200.0	3,114.4	3,151.6	3,096.9	13.1	10.8	88.33	-129.2	633.2	68.9	46.4	22.47	3.065		
3,300.0	3,209.7	3,250.1	3,193.0	13.7	11.2	97.01	-142.9	650.0	81.8	57.9	23.89	3.423		
3,400.0	3,305.0	3,348.6	3,289.1	14.3	11.6	103.24	-156.6	666.9	96.0	71.1	24.94	3.848		
3,500.0	3,400.3	3,447.1	3,385.2	14.8	12.0	107.84	-170.3	683.7	111.1	85.2	25.83	4.299		
3,600.0	3,495.6	3,545.7	3,481.3	15.4	12.4	111.33	-184.0	700.5	126.7	100.0	26.64	4.754		
3,700.0	3,591.0	3,644.2	3,577.4	16.0	12.9	114.04	-197.7	717.3	142.6	115.2	27.42	5.202		
3,800.0	3,686.3	3,742.7	3,673.5	16.6	13.3	116.21	-211.5	734.1	158.8	130.7	28.19	5.636		
3,900.0	3,781.6	3,841.2	3,769.6	17.1	13.7	117.98	-225.2	750.9	175.2	146.3	28.95	6.053		
4,000.0	3,876.9	3,939.7	3,865.7	17.7	14.1	119.45	-238.9	767.7	191.8	162.1	29.71	6.454		
4,100.0	3,972.2	4,038.2	3,961.8	18.3	14.5	120.68	-252.6	784.5	208.4	177.9	30.48	6.837		
4,200.0	4,067.5	4,136.8	4,057.9	18.9	15.0	121.73	-266.3	801.4	225.1	193.9	31.25	7.203		
4,300.0	4,162.9	4,235.3	4,154.0	19.4	15.4	122.63	-280.0	818.2	241.9	209.8	32.03	7.551		
4,400.0	4,258.2	4,333.8	4,250.1	20.0	15.8	123.42	-293.7	835.0	258.7	225.9	32.81	7.884		
4,500.0	4,353.5	4,432.3	4,346.2	20.6	16.2	124.11	-307.4	851.8	275.6	242.0	33.60	8.202		
4,600.0	4,448.8	4,530.8	4,442.3	21.2	16.6	124.72	-321.1	868.6	292.5	258.1	34.39	8.505		
4,700.0	4,544.1	4,629.3	4,538.4	21.7	17.1	125.26	-334.8	885.4	309.4	274.2	35.18	8.794		
4,800.0	4,639.4	4,727.9	4,634.5	22.3	17.5	125.75	-348.5	902.2	326.4	290.4	35.98	9.070		
4,900.0	4,734.7	4,826.4	4,730.6	22.9	17.9	126.19	-362.2	919.1	343.3	306.6	36.78	9.334		

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 4W-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 4W-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	4,830.1	4,924.9	4,826.7	23.5	18.3	126.59	-375.9	935.9	360.3	322.7	37.58	9.587		
5,100.0	4,925.4	5,023.4	4,922.8	24.0	18.7	126.95	-389.6	952.7	377.3	338.9	38.39	9.829		
5,200.0	5,020.7	5,121.9	5,018.9	24.6	19.2	127.28	-403.3	969.5	394.4	355.2	39.20	10.061		
5,300.0	5,116.0	5,220.4	5,115.0	25.2	19.6	127.59	-417.0	986.3	411.4	371.4	40.01	10.283		
5,400.0	5,211.3	5,319.0	5,211.1	25.8	20.0	127.87	-430.7	1,003.1	428.4	387.6	40.82	10.496		
5,500.0	5,306.6	5,417.5	5,307.2	26.3	20.4	128.12	-444.4	1,019.9	445.5	403.9	41.63	10.701		
5,600.0	5,402.0	5,516.0	5,403.3	26.9	20.8	128.36	-458.2	1,036.7	462.5	420.1	42.44	10.898		
5,700.0	5,497.3	5,614.5	5,499.4	27.5	21.3	128.59	-471.9	1,053.6	479.6	436.4	43.26	11.087		
5,800.0	5,592.6	5,713.0	5,595.5	28.1	21.7	128.79	-485.6	1,070.4	496.7	452.6	44.08	11.269		
5,900.0	5,687.9	5,811.5	5,691.6	28.7	22.1	128.99	-499.3	1,087.2	513.8	468.9	44.90	11.444		
6,000.0	5,783.2	5,909.7	5,787.3	29.2	22.5	129.17	-512.9	1,103.9	530.9	485.2	45.70	11.616		
6,100.0	5,878.5	6,005.9	5,881.7	29.8	22.9	129.57	-524.9	1,118.6	548.2	501.9	46.36	11.824		
6,200.0	5,973.9	6,101.7	5,976.1	30.4	23.2	130.28	-534.8	1,130.8	566.1	519.2	46.87	12.078		
6,300.0	6,069.2	6,196.7	6,070.4	31.0	23.4	131.24	-542.7	1,140.5	584.5	537.2	47.21	12.381		
6,400.0	6,164.5	6,290.9	6,164.1	31.5	23.6	132.44	-548.6	1,147.7	603.6	556.2	47.38	12.738		
6,500.0	6,259.8	6,384.0	6,256.9	32.1	23.7	133.83	-552.5	1,152.5	623.5	576.1	47.40	13.155		
6,600.0	6,355.1	6,475.8	6,348.7	32.7	23.8	135.38	-554.5	1,154.9	644.6	597.3	47.26	13.640		
6,700.0	6,450.4	6,568.6	6,441.4	33.3	23.9	137.08	-554.8	1,155.3	666.8	619.8	47.00	14.187		
6,800.0	6,545.8	6,663.9	6,536.8	33.9	24.0	138.76	-554.8	1,155.3	689.7	643.0	46.73	14.759		
6,900.0	6,641.1	6,759.2	6,632.1	34.4	24.1	140.33	-554.8	1,155.3	713.2	666.7	46.47	15.347		
6,981.7	6,719.0	6,837.1	6,710.0	34.9	24.1	141.54	-554.8	1,155.3	732.7	686.5	46.27	15.837		
7,000.0	6,736.4	6,854.5	6,727.4	35.0	24.2	146.72	-554.8	1,155.3	737.3	691.0	46.22	15.950		
7,050.0	6,784.1	6,902.2	6,775.1	35.3	24.2	160.81	-554.8	1,155.3	750.9	704.7	46.14	16.273		
7,100.0	6,831.6	6,949.7	6,822.6	35.6	24.2	173.84	-554.8	1,155.3	766.2	720.0	46.13	16.608		
7,150.0	6,878.6	6,996.7	6,869.6	35.8	24.3	-174.91	-554.8	1,155.3	783.0	736.8	46.20	16.949		
7,200.0	6,925.1	7,043.2	6,916.1	36.1	24.3	-165.62	-554.8	1,155.3	801.3	755.0	46.33	17.297		
7,250.0	6,970.6	7,088.7	6,961.6	36.3	24.4	-158.06	-554.8	1,155.3	821.0	774.5	46.52	17.650		
7,300.0	7,015.1	7,133.2	7,006.1	36.5	24.4	-151.89	-554.8	1,155.3	842.1	795.4	46.76	18.009		
7,350.0	7,058.2	7,176.3	7,049.2	36.8	24.4	-146.80	-554.8	1,155.3	864.6	817.5	47.05	18.377		
7,400.0	7,099.8	7,217.9	7,090.8	37.0	24.5	-142.52	-554.8	1,155.3	888.4	841.0	47.37	18.756		
7,450.0	7,139.7	7,257.8	7,130.7	37.2	24.5	-138.81	-554.8	1,155.3	913.6	865.9	47.71	19.147		
7,500.0	7,177.7	7,295.8	7,168.7	37.4	24.6	-135.51	-554.8	1,155.3	940.2	892.1	48.08	19.555		
7,550.0	7,213.6	7,331.7	7,204.6	37.6	24.6	-132.48	-554.8	1,155.3	968.1	919.7	48.45	19.982		
7,600.0	7,247.2	7,365.3	7,238.2	37.8	24.6	-129.59	-554.8	1,155.3	997.4	948.6	48.82	20.430		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 8-4-32 - 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		
8,600.0	7,429.0	7,586.7	7,390.0	42.6	30.0	-90.00	1,976.8	1,848.8	965.6	899.8	65.89	14.655		
8,700.0	7,429.0	7,586.7	7,390.0	43.4	30.0	-90.00	1,976.8	1,848.8	866.0	799.7	66.34	13.054		
8,800.0	7,429.0	7,586.7	7,390.0	44.2	30.0	-90.00	1,976.8	1,848.8	766.5	699.6	66.88	11.460		
8,900.0	7,429.0	7,586.7	7,390.0	45.1	30.0	-90.00	1,976.8	1,848.8	667.1	599.5	67.56	9.874		
9,000.0	7,429.0	7,586.7	7,390.0	46.0	30.0	-90.00	1,976.8	1,848.8	567.9	499.5	68.43	8.299		
9,100.0	7,429.0	7,586.7	7,390.0	47.0	30.0	-90.00	1,976.8	1,848.8	469.1	399.5	69.61	6.739		
9,200.0	7,429.0	7,586.7	7,390.0	48.0	30.0	-90.00	1,976.8	1,848.8	370.9	299.6	71.28	5.203		
9,300.0	7,429.0	7,586.7	7,390.0	49.0	30.0	-90.00	1,976.8	1,848.8	274.0	200.1	73.85	3.710		
9,400.0	7,429.0	7,586.7	7,390.0	50.1	30.0	-90.00	1,976.8	1,848.8	180.5	102.5	77.93	2.316		
9,500.0	7,429.0	7,586.7	7,390.0	51.3	30.0	-90.00	1,976.8	1,848.8	100.4	20.2	80.19	1.252 Level 3, SF		
9,562.4	7,429.0	7,586.7	7,390.0	52.0	30.0	-90.00	1,976.8	1,848.8	78.7	19.2	59.51	1.322 Level 3, CC, ES		
9,600.0	7,429.0	7,586.7	7,390.0	52.4	30.0	-90.00	1,976.8	1,848.8	87.2	49.2	37.96	2.296		
9,700.0	7,429.0	7,586.7	7,390.0	53.6	30.0	-90.00	1,976.8	1,848.8	158.5	120.5	38.01	4.169		
9,800.0	7,429.0	7,586.7	7,390.0	54.9	30.0	-90.00	1,976.8	1,848.8	250.3	202.7	47.58	5.259		
9,900.0	7,429.0	7,586.7	7,390.0	56.1	30.0	-90.00	1,976.8	1,848.8	346.6	294.4	52.24	6.635		
10,000.0	7,429.0	7,586.7	7,390.0	57.4	30.0	-90.00	1,976.8	1,848.8	444.6	389.7	54.86	8.104		
10,100.0	7,429.0	7,586.7	7,390.0	58.7	30.0	-90.00	1,976.8	1,848.8	543.3	486.8	56.53	9.610		
10,200.0	7,429.0	7,586.7	7,390.0	60.1	30.0	-90.00	1,976.8	1,848.8	642.4	584.7	57.70	11.133		
10,300.0	7,429.0	7,586.7	7,390.0	61.4	30.0	-90.00	1,976.8	1,848.8	741.8	683.2	58.56	12.666		
10,400.0	7,429.0	7,586.7	7,390.0	62.8	30.0	-90.00	1,976.8	1,848.8	841.3	782.0	59.23	14.202		
10,500.0	7,429.0	7,586.7	7,390.0	64.2	30.0	-90.00	1,976.8	1,848.8	940.9	881.1	59.77	15.740		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 8-6-32 - 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		
4,300.0	4,162.9	4,147.3	4,092.1	19.4	13.5	-75.31	842.1	1,317.1	997.4	965.1	32.27	30.908		
4,400.0	4,258.2	4,246.6	4,189.5	20.0	13.9	-75.91	838.5	1,336.0	992.7	959.5	33.26	29.844		
4,500.0	4,353.5	4,346.0	4,287.0	20.6	14.3	-76.52	834.8	1,354.8	988.2	954.0	34.26	28.844		
4,600.0	4,448.8	4,445.3	4,384.5	21.2	14.7	-77.13	831.2	1,373.7	983.8	948.5	35.26	27.904		
4,700.0	4,544.1	4,544.7	4,481.9	21.7	15.0	-77.75	827.5	1,392.6	979.5	943.2	36.26	27.017		
4,800.0	4,639.4	4,644.0	4,579.4	22.3	15.4	-78.37	823.8	1,411.4	975.3	938.1	37.25	26.181		
4,900.0	4,734.7	4,743.3	4,676.9	22.9	15.8	-79.00	820.2	1,430.3	971.2	933.0	38.25	25.391		
5,000.0	4,830.1	4,842.7	4,774.3	23.5	16.2	-79.64	816.5	1,449.1	967.3	928.0	39.25	24.645		
5,100.0	4,925.4	4,942.0	4,871.8	24.0	16.6	-80.27	812.9	1,468.0	963.5	923.2	40.25	23.939		
5,200.0	5,020.7	5,041.4	4,969.2	24.6	16.9	-80.92	809.2	1,486.9	959.8	918.5	41.24	23.270		
5,300.0	5,116.0	5,140.7	5,066.7	25.2	17.3	-81.57	805.5	1,505.7	956.2	913.9	42.24	22.638		
5,400.0	5,211.3	5,240.0	5,164.2	25.8	17.7	-82.22	801.9	1,524.6	952.7	909.5	43.23	22.038		
5,500.0	5,306.6	5,339.4	5,261.6	26.3	18.1	-82.88	798.2	1,543.4	949.4	905.2	44.22	21.469		
5,600.0	5,402.0	5,438.7	5,359.1	26.9	18.4	-83.54	794.6	1,562.3	946.2	901.0	45.21	20.929		
5,700.0	5,497.3	5,538.0	5,456.6	27.5	18.8	-84.21	790.9	1,581.2	943.1	896.9	46.19	20.416		
5,800.0	5,592.6	5,637.4	5,554.0	28.1	19.2	-84.88	787.3	1,600.0	940.2	893.0	47.18	19.929		
5,900.0	5,687.9	5,736.7	5,651.5	28.7	19.6	-85.55	783.6	1,618.9	937.3	889.2	48.15	19.466		
6,000.0	5,783.2	5,836.1	5,749.0	29.2	20.0	-86.23	779.9	1,637.7	934.7	885.5	49.13	19.026		
6,100.0	5,878.5	5,935.4	5,846.4	29.8	20.3	-86.92	776.3	1,656.6	932.1	882.0	50.09	18.608		
6,200.0	5,973.9	6,034.7	5,943.9	30.4	20.7	-87.60	772.6	1,675.4	929.7	878.6	51.06	18.210		
6,300.0	6,069.2	6,134.1	6,041.4	31.0	21.1	-88.29	769.0	1,694.3	927.4	875.4	52.01	17.831		
6,400.0	6,164.5	6,233.4	6,138.8	31.5	21.5	-88.99	765.3	1,713.2	925.3	872.3	52.96	17.471		
6,500.0	6,259.8	6,332.8	6,236.3	32.1	21.9	-89.68	761.6	1,732.0	923.3	869.4	53.91	17.128		
6,600.0	6,355.1	6,432.1	6,333.7	32.7	22.2	-90.38	758.0	1,750.9	921.4	866.6	54.84	16.802		
6,700.0	6,450.4	6,531.4	6,431.2	33.3	22.6	-91.08	754.3	1,769.7	919.7	863.9	55.77	16.491		
6,800.0	6,545.8	6,630.8	6,528.7	33.9	23.0	-91.79	750.7	1,788.6	918.1	861.4	56.69	16.195		
6,900.0	6,641.1	6,728.2	6,624.3	34.4	23.2	-92.50	747.1	1,806.8	916.7	859.2	57.47	15.952		
6,981.7	6,719.0	6,805.6	6,700.6	34.9	23.3	-93.19	744.7	1,819.3	916.0	858.0	57.96	15.803		
7,000.0	6,736.4	6,822.8	6,717.6	35.0	23.3	-88.75	744.2	1,821.8	915.7	857.6	58.07	15.768		
7,050.0	6,784.1	6,869.6	6,764.1	35.3	23.4	-76.63	743.0	1,828.1	912.5	854.2	58.35	15.638		
7,100.0	6,831.6	6,916.0	6,810.1	35.6	23.4	-65.47	741.9	1,833.7	906.1	847.5	58.63	15.456		
7,150.0	6,878.6	6,961.6	6,855.4	35.8	23.4	-56.04	741.0	1,838.4	896.5	837.6	58.89	15.224		
7,200.0	6,925.1	7,006.3	6,899.9	36.1	23.5	-48.51	740.2	1,842.3	883.7	824.6	59.13	14.944		
7,250.0	6,970.6	7,049.9	6,943.4	36.3	23.5	-42.69	739.6	1,845.5	867.9	808.5	59.37	14.619		
7,300.0	7,015.1	7,092.2	6,985.6	36.5	23.6	-38.28	739.2	1,848.0	849.0	789.4	59.59	14.248		
7,350.0	7,058.2	7,133.0	7,026.4	36.8	23.6	-35.02	738.8	1,849.8	827.3	767.5	59.79	13.836		
7,400.0	7,099.8	7,172.2	7,065.6	37.0	23.6	-32.67	738.6	1,851.0	802.7	742.8	59.98	13.383		
7,450.0	7,139.7	7,209.6	7,103.0	37.2	23.7	-31.09	738.4	1,851.6	775.5	715.4	60.15	12.893		
7,500.0	7,177.7	7,245.3	7,138.7	37.4	23.7	-30.18	738.4	1,851.8	745.8	685.5	60.31	12.367		
7,550.0	7,213.6	7,281.2	7,174.6	37.6	23.7	-29.94	738.4	1,851.8	713.7	653.2	60.45	11.805		
7,600.0	7,247.2	7,314.8	7,208.2	37.8	23.8	-30.30	738.4	1,851.8	679.2	618.6	60.58	11.210		
7,650.0	7,278.3	7,345.9	7,239.3	38.0	23.8	-31.27	738.4	1,851.8	642.5	581.8	60.69	10.586		
7,700.0	7,306.9	7,374.5	7,267.9	38.2	23.8	-32.96	738.4	1,851.8	603.9	543.1	60.78	9.934		
7,750.0	7,332.7	7,400.3	7,293.7	38.4	23.8	-35.47	738.4	1,851.8	563.5	502.6	60.85	9.260		
7,800.0	7,355.7	7,423.3	7,316.7	38.6	23.9	-39.01	738.4	1,851.8	521.5	460.6	60.87	8.567		
7,850.0	7,375.7	7,443.3	7,336.7	38.8	23.9	-43.80	738.4	1,851.8	478.3	417.4	60.85	7.860		
7,900.0	7,392.6	7,460.2	7,353.6	39.0	23.9	-50.08	738.4	1,851.8	434.0	373.3	60.76	7.143		
7,950.0	7,406.4	7,474.0	7,367.4	39.2	23.9	-57.91	738.4	1,851.8	389.1	328.5	60.57	6.423		
8,000.0	7,416.9	7,484.5	7,377.9	39.4	23.9	-67.02	738.4	1,851.8	343.7	283.5	60.22	5.708		
8,050.0	7,424.2	7,491.8	7,385.2	39.6	23.9	-76.52	738.4	1,851.8	298.6	238.9	59.61	5.008		
8,100.0	7,428.2	7,495.8	7,389.2	39.8	23.9	-85.15	738.4	1,851.8	254.1	195.5	58.55	4.340		
8,134.9	7,429.0	7,496.6	7,390.0	39.9	23.9	-90.00	738.4	1,851.8	224.0	166.6	57.35	3.905		

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 4W-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 4W-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 8-6-32 - 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		
8,200.0	7,429.0	7,496.6	7,390.0	40.2	23.9	-90.00	738.4	1,851.8	172.3	119.2	53.05	3.248 SF		
8,300.0	7,429.0	7,496.6	7,390.0	40.7	23.9	-90.00	738.4	1,851.8	121.4	84.8	36.63	3.315 ES		
8,324.7	7,429.0	7,496.6	7,390.0	40.8	23.9	-90.00	738.4	1,851.8	118.9	86.3	32.58	3.650 CC		
8,400.0	7,429.0	7,496.6	7,390.0	41.3	23.9	-90.00	738.4	1,851.8	140.7	104.6	36.16	3.892		
8,500.0	7,429.0	7,496.6	7,390.0	41.9	23.9	-90.00	738.4	1,851.8	211.8	162.8	49.06	4.318		
8,600.0	7,429.0	7,496.6	7,390.0	42.6	23.9	-90.00	738.4	1,851.8	299.9	245.6	54.29	5.523		
8,700.0	7,429.0	7,496.6	7,390.0	43.4	23.9	-90.00	738.4	1,851.8	393.7	337.0	56.64	6.950		
8,800.0	7,429.0	7,496.6	7,390.0	44.2	23.9	-90.00	738.4	1,851.8	489.9	432.0	57.91	8.461		
8,900.0	7,429.0	7,496.6	7,390.0	45.1	23.9	-90.00	738.4	1,851.8	587.4	528.8	58.69	10.010		
9,000.0	7,429.0	7,496.6	7,390.0	46.0	23.9	-90.00	738.4	1,851.8	685.7	626.5	59.22	11.579		
9,100.0	7,429.0	7,496.6	7,390.0	47.0	23.9	-90.00	738.4	1,851.8	784.4	724.7	59.61	13.159		
9,200.0	7,429.0	7,496.6	7,390.0	48.0	23.9	-90.00	738.4	1,851.8	883.3	823.4	59.91	14.745		
9,300.0	7,429.0	7,496.6	7,390.0	49.0	23.9	-90.00	738.4	1,851.8	982.5	922.4	60.15	16.333		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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			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	50.20	195.6	234.7	305.7					
100.0	100.0	88.4	88.4	0.1	0.1	50.23	195.8	235.2	306.0	305.7	0.28	1,106.715		
200.0	200.0	185.7	185.7	0.3	0.3	50.36	195.9	236.5	307.1	306.5	0.62	494.034		
300.0	300.0	284.7	284.6	0.5	0.5	-44.62	194.6	239.8	308.3	307.3	0.98	314.752		
400.0	400.0	379.2	378.9	0.7	0.7	-43.82	191.7	245.8	309.4	308.0	1.35	229.092		
500.0	499.9	476.9	476.1	0.9	0.9	-42.66	187.2	254.9	310.8	309.0	1.76	176.765		
600.0	599.7	572.6	570.9	1.1	1.2	-41.24	180.9	265.8	311.5	309.3	2.20	141.882		
700.0	699.4	666.8	663.7	1.3	1.5	-39.49	173.2	279.7	313.0	310.3	2.67	117.096		
800.0	798.9	759.8	754.8	1.5	1.9	-37.45	164.2	296.3	315.3	312.1	3.17	99.450		
900.0	898.3	851.6	844.3	1.8	2.3	-35.46	155.6	315.0	319.0	315.3	3.67	86.895		
1,000.0	997.4	947.3	937.1	2.0	2.7	-33.42	146.6	336.4	323.4	319.2	4.20	76.943		
1,100.0	1,096.3	1,039.4	1,025.7	2.3	3.2	-31.15	135.9	359.2	328.1	323.3	4.74	69.158		
1,200.0	1,194.9	1,127.7	1,109.4	2.7	3.8	-28.65	123.9	384.4	334.7	329.4	5.26	63.566		
1,300.0	1,293.3	1,216.6	1,192.8	3.0	4.3	-26.03	111.2	412.9	343.5	337.7	5.77	59.528		
1,400.0	1,391.2	1,308.0	1,277.3	3.4	5.0	-23.28	97.2	444.5	353.9	347.6	6.27	56.447		
1,500.0	1,488.9	1,403.9	1,365.1	3.8	5.7	-20.30	80.5	479.3	364.8	358.1	6.76	53.948		
1,600.0	1,586.1	1,501.9	1,454.3	4.2	6.5	-17.25	61.9	515.3	375.2	368.0	7.22	51.996		
1,700.0	1,682.9	1,595.9	1,540.0	4.7	7.2	-14.71	45.2	550.0	385.4	377.8	7.58	50.810		
1,800.0	1,779.3	1,692.0	1,627.8	5.2	7.9	-12.57	30.0	586.1	395.3	387.4	7.94	49.765		
1,900.0	1,875.2	1,787.6	1,715.0	5.8	8.7	-10.60	14.9	622.5	404.6	396.3	8.28	48.893		
1,960.5	1,933.0	1,844.0	1,766.2	6.1	9.1	-9.52	6.2	644.4	410.2	401.7	8.45	48.525		
2,000.0	1,970.6	1,884.2	1,802.6	6.3	9.5	-8.78	0.1	660.1	413.8	405.2	8.59	48.188		
2,100.0	2,065.9	1,991.4	1,900.2	6.9	10.3	-6.75	-17.3	701.1	422.3	413.4	8.92	47.324		
2,200.0	2,161.2	2,102.3	2,002.1	7.4	11.1	-4.65	-36.0	740.7	428.6	419.4	9.24	46.412		
2,300.0	2,256.5	2,198.0	2,090.4	8.0	11.8	-2.93	-51.8	773.9	434.3	424.8	9.46	45.887		
2,400.0	2,351.8	2,304.2	2,188.4	8.5	12.6	-0.94	-70.3	810.3	440.1	430.4	9.72	45.269		
2,500.0	2,447.2	2,413.3	2,290.0	9.1	13.3	1.03	-88.9	845.5	444.1	434.1	9.96	44.567		
2,600.0	2,542.5	2,513.6	2,384.2	9.7	13.9	2.43	-102.9	877.1	447.2	437.0	10.19	43.866		
2,700.0	2,637.8	2,619.2	2,483.5	10.3	14.6	3.70	-116.3	910.3	450.3	439.8	10.47	43.007		
2,800.0	2,733.1	2,727.2	2,585.8	10.8	15.3	5.13	-130.7	942.0	451.5	440.7	10.75	41.983		
2,900.0	2,828.4	2,816.0	2,669.6	11.4	15.8	6.28	-142.5	968.5	453.5	442.5	10.97	41.331		
3,000.0	2,923.7	2,923.0	2,770.7	12.0	16.5	7.87	-158.3	1,000.0	455.7	444.4	11.29	40.359		
3,100.0	3,019.1	3,024.9	2,866.9	12.5	17.1	9.68	-175.7	1,028.7	457.5	445.9	11.60	39.457		
3,200.0	3,114.4	3,125.4	2,962.3	13.1	17.7	11.21	-190.6	1,056.6	458.8	446.9	11.93	38.452		
3,300.0	3,209.7	3,217.3	3,049.3	13.7	18.3	12.48	-203.7	1,083.1	461.2	448.9	12.28	37.562		
3,400.0	3,305.0	3,312.7	3,139.1	14.3	18.9	13.98	-219.1	1,111.5	465.4	452.7	12.68	36.704		
3,500.0	3,400.3	3,413.9	3,234.3	14.8	19.5	15.36	-234.2	1,142.1	470.1	456.9	13.14	35.761		
3,600.0	3,495.6	3,519.6	3,334.2	15.4	20.2	16.51	-247.5	1,174.1	473.9	460.3	13.65	34.711		
3,700.0	3,591.0	3,620.8	3,430.1	16.0	20.8	17.73	-261.0	1,203.5	477.2	463.0	14.20	33.607		
3,800.0	3,686.3	3,718.3	3,522.5	16.6	21.4	18.84	-273.6	1,231.9	480.5	465.7	14.76	32.549		
3,900.0	3,781.6	3,816.2	3,615.0	17.1	22.0	19.93	-286.5	1,261.1	484.8	469.4	15.37	31.541		
4,000.0	3,876.9	3,909.5	3,703.2	17.7	22.6	21.03	-299.4	1,288.8	489.4	473.4	16.01	30.568		
4,100.0	3,972.2	4,003.7	3,791.6	18.3	23.2	21.90	-311.5	1,319.0	496.0	479.4	16.65	29.788		
4,200.0	4,067.5	4,112.6	3,893.9	18.9	23.9	22.92	-325.7	1,353.4	502.3	484.9	17.40	28.865		
4,300.0	4,162.9	4,220.4	3,996.2	19.4	24.5	24.16	-340.5	1,384.2	506.4	488.1	18.26	27.731		
4,400.0	4,258.2	4,303.9	4,075.0	20.0	25.1	24.88	-350.6	1,409.8	511.7	492.7	18.95	26.997		
4,500.0	4,353.5	4,386.2	4,151.6	20.6	25.7	25.47	-361.2	1,437.8	520.5	500.9	19.62	26.536		
4,600.0	4,448.8	4,498.6	4,256.2	21.2	26.4	26.29	-376.3	1,476.3	530.1	509.6	20.48	25.883		
4,700.0	4,544.1	4,613.9	4,364.9	21.7	27.1	27.29	-391.2	1,511.7	536.1	514.7	21.44	25.003		
4,800.0	4,639.4	4,711.4	4,457.1	22.3	27.7	28.11	-403.2	1,540.9	541.3	519.0	22.32	24.251		
4,900.0	4,734.7	4,806.2	4,546.7	22.9	28.3	29.02	-416.3	1,569.3	547.5	524.2	23.26	23.534		
5,000.0	4,830.1	4,897.1	4,632.1	23.5	28.9	29.93	-430.0	1,596.8	554.9	530.7	24.23	22.901		

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 4W-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 4W-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)						
5,100.0	4,925.4	5,022.4	4,750.6	24.0	29.7	31.37	-449.6	1,632.5	561.5	535.9	25.54	21.987		
5,200.0	5,020.7	5,130.0	4,854.0	24.6	30.2	32.83	-465.4	1,658.0	563.6	536.8	26.86	20.980		
5,300.0	5,116.0	5,228.7	4,948.5	25.2	30.8	34.12	-480.2	1,682.2	566.9	538.8	28.16	20.135		
5,400.0	5,211.3	5,329.9	5,045.7	25.8	31.3	35.41	-494.8	1,706.7	569.9	540.4	29.49	19.322		
5,500.0	5,306.6	5,450.2	5,161.6	26.3	31.9	36.86	-510.2	1,734.7	571.4	540.4	30.95	18.458		
5,600.0	5,402.0	5,573.8	5,281.9	26.9	32.4	38.30	-522.1	1,760.1	568.8	536.4	32.40	17.552		
5,700.0	5,497.3	5,698.9	5,404.9	27.5	32.8	39.97	-531.8	1,780.7	562.2	528.3	33.94	16.564		
5,800.0	5,592.6	5,813.0	5,517.8	28.1	33.1	41.69	-538.7	1,796.0	552.6	517.1	35.56	15.540		
5,900.0	5,687.9	5,930.3	5,634.4	28.7	33.4	43.62	-543.3	1,808.2	539.8	502.6	37.27	14.485		
6,000.0	5,783.2	6,039.6	5,743.3	29.2	33.5	45.69	-546.3	1,816.5	524.9	485.7	39.12	13.417		
6,100.0	5,878.5	6,145.8	5,849.3	29.8	33.7	47.93	-548.1	1,822.4	508.5	467.4	41.12	12.366		
6,200.0	5,973.9	6,246.3	5,949.8	30.4	33.8	50.26	-549.2	1,826.9	491.7	448.5	43.26	11.367		
6,300.0	6,069.2	6,347.0	6,050.3	31.0	33.9	52.81	-549.9	1,830.7	475.0	429.4	45.53	10.431		
6,400.0	6,164.5	6,447.8	6,151.1	31.5	34.0	55.58	-549.8	1,833.7	458.3	410.3	47.91	9.564		
6,500.0	6,259.8	6,545.8	6,249.1	32.1	34.1	58.59	-549.6	1,835.4	441.9	391.4	50.46	8.757		
6,600.0	6,355.1	6,643.9	6,347.2	32.7	34.2	61.83	-549.0	1,836.8	426.4	373.3	53.09	8.032		
6,700.0	6,450.4	6,740.8	6,444.1	33.3	34.2	65.31	-548.2	1,837.7	411.9	356.1	55.79	7.384		
6,800.0	6,545.8	6,836.6	6,539.8	33.9	34.3	69.02	-547.3	1,838.1	399.0	340.5	58.51	6.819		
6,900.0	6,641.1	6,932.3	6,635.6	34.4	34.3	72.95	-546.4	1,838.5	387.8	326.7	61.16	6.341		
6,981.7	6,719.0	7,010.5	6,713.8	34.9	34.4	76.31	-545.6	1,838.7	380.1	316.9	63.23	6.012		
7,000.0	6,736.4	7,028.0	6,731.2	35.0	34.4	81.70	-545.4	1,838.8	378.9	315.2	63.68	5.949		
7,034.7	6,769.5	7,061.3	6,764.5	35.2	34.4	92.00	-545.0	1,838.9	377.9	313.4	64.52	5.857		
7,050.0	6,784.1	7,075.9	6,779.1	35.3	34.4	96.46	-544.9	1,838.9	378.1	313.2	64.88	5.827		
7,100.0	6,831.6	7,123.6	6,826.8	35.6	34.4	110.28	-544.3	1,839.0	381.3	315.3	65.99	5.778 SF		
7,150.0	6,878.6	7,170.9	6,874.1	35.8	34.5	122.37	-543.8	1,839.1	388.6	321.7	66.99	5.801		
7,200.0	6,925.1	7,217.6	6,920.8	36.1	34.5	132.55	-543.2	1,839.1	399.9	332.1	67.85	5.894		
7,250.0	6,970.6	7,263.4	6,966.7	36.3	34.5	140.99	-542.7	1,839.1	415.0	346.4	68.56	6.053		
7,300.0	7,015.1	7,308.0	7,011.3	36.5	34.5	147.99	-542.1	1,839.1	433.7	364.6	69.14	6.273		
7,350.0	7,058.2	7,351.3	7,054.6	36.8	34.6	153.86	-541.6	1,839.1	456.0	386.4	69.60	6.552		
7,400.0	7,099.8	7,393.1	7,096.4	37.0	34.6	158.85	-541.1	1,839.0	481.5	411.5	69.95	6.883		
7,450.0	7,139.7	7,433.0	7,136.2	37.2	34.6	163.14	-540.6	1,838.9	510.1	439.8	70.23	7.263		
7,500.0	7,177.7	7,471.2	7,174.4	37.4	34.6	166.94	-540.2	1,838.8	541.5	471.1	70.43	7.688		
7,550.0	7,213.6	7,507.0	7,210.2	37.6	34.6	170.35	-539.8	1,838.6	575.6	505.0	70.58	8.155		
7,600.0	7,247.2	7,540.6	7,243.8	37.8	34.7	173.52	-539.5	1,838.5	612.1	541.4	70.69	8.659		
7,650.0	7,278.3	7,571.7	7,274.9	38.0	34.7	176.56	-539.2	1,838.3	650.9	580.1	70.77	9.197		
7,700.0	7,306.9	7,600.3	7,303.5	38.2	34.7	179.61	-538.9	1,838.2	691.7	620.8	70.82	9.767		
7,750.0	7,332.7	7,626.0	7,329.2	38.4	34.7	-177.16	-538.7	1,838.0	734.3	663.4	70.85	10.364		
7,800.0	7,355.7	7,648.8	7,352.0	38.6	34.7	-173.57	-538.5	1,837.9	778.5	707.6	70.86	10.986		
7,850.0	7,375.7	7,668.6	7,371.8	38.8	34.7	-169.30	-538.3	1,837.8	824.1	753.2	70.86	11.630		
7,900.0	7,392.6	7,685.5	7,388.7	39.0	34.7	-163.89	-538.2	1,837.7	870.8	800.0	70.84	12.294		
7,950.0	7,406.4	7,699.2	7,402.4	39.2	34.7	-156.54	-538.1	1,837.6	918.6	847.8	70.81	12.973		
8,000.0	7,416.9	7,709.8	7,413.0	39.4	34.7	-145.94	-538.1	1,837.6	967.1	896.3	70.77	13.665		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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	2.0	2.0	0.0	0.0	-89.71	1.1	-219.9	219.9					
100.0	100.0	102.0	102.0	0.1	0.2	-89.71	1.1	-219.9	219.9	219.6	0.30	732.570		
116.0	116.0	118.0	118.0	0.2	0.2	-89.71	1.1	-219.9	219.9	219.6	0.36	617.740 CC		
200.0	200.0	201.9	201.9	0.3	0.3	-89.71	1.1	-219.9	219.9	219.3	0.65	338.780 ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.90	1.3	-220.8	221.6	220.6	0.99	222.775		
400.0	400.0	394.6	394.5	0.7	0.7	175.11	2.0	-223.1	226.7	225.4	1.33	169.898		
500.0	499.9	490.5	490.3	0.9	0.8	175.45	3.1	-227.0	235.1	233.5	1.68	140.281		
600.0	599.7	585.8	585.6	1.1	1.0	175.88	4.6	-232.4	246.9	244.9	2.02	122.421		
700.0	699.4	683.4	682.9	1.3	1.2	176.36	6.4	-239.2	261.7	259.3	2.36	110.776		
800.0	798.9	782.0	781.2	1.5	1.4	176.83	8.3	-246.1	278.3	275.5	2.71	102.697		
900.0	898.3	880.3	879.3	1.8	1.6	177.26	10.2	-253.0	296.6	293.5	3.06	97.049		
1,000.0	997.4	978.3	977.0	2.0	1.9	177.65	12.1	-259.8	316.6	313.2	3.40	93.085		
1,100.0	1,096.3	1,075.9	1,074.3	2.3	2.1	178.01	14.0	-266.6	338.3	334.6	3.75	90.336		
1,200.0	1,194.9	1,173.0	1,171.2	2.7	2.3	178.33	15.9	-273.4	361.8	357.7	4.09	88.492		
1,300.0	1,293.3	1,269.8	1,267.7	3.0	2.5	178.61	17.7	-280.2	387.0	382.5	4.43	87.339		
1,400.0	1,391.2	1,366.1	1,363.8	3.4	2.7	178.87	19.6	-286.9	413.8	409.1	4.77	86.729		
1,500.0	1,488.9	1,461.9	1,459.3	3.8	2.9	179.10	21.4	-293.6	442.4	437.3	5.11	86.549 SF		
1,600.0	1,586.1	1,557.2	1,554.4	4.2	3.1	179.31	23.3	-300.3	472.6	467.1	5.45	86.720		
1,700.0	1,682.9	1,652.0	1,648.9	4.7	3.3	179.49	25.1	-306.9	504.5	498.7	5.79	87.178		
1,800.0	1,779.3	1,746.2	1,742.9	5.2	3.5	179.65	26.9	-313.5	538.0	531.9	6.12	87.876		
1,900.0	1,875.2	1,839.8	1,836.2	5.8	3.7	179.80	28.7	-320.1	573.2	566.7	6.46	88.775		
1,960.5	1,933.0	1,896.2	1,892.4	6.1	3.8	179.88	29.8	-324.0	595.3	588.6	6.66	89.405		
2,000.0	1,970.6	1,932.8	1,929.0	6.3	3.9	179.93	30.5	-326.6	609.9	603.1	6.79	89.827		
2,100.0	2,065.9	2,025.7	2,021.7	6.9	4.1	-179.96	32.3	-333.1	646.8	639.7	7.12	90.828		
2,200.0	2,161.2	2,118.6	2,114.3	7.4	4.3	-179.85	34.1	-339.6	683.8	676.4	7.45	91.741		
2,300.0	2,256.5	2,211.5	2,207.0	8.0	4.5	-179.76	35.9	-346.1	720.8	713.0	7.79	92.577		
2,400.0	2,351.8	2,304.4	2,299.6	8.5	4.7	-179.68	37.7	-352.6	757.8	749.7	8.12	93.345		
2,500.0	2,447.2	2,397.3	2,392.3	9.1	4.9	-179.60	39.5	-359.1	794.8	786.3	8.45	94.053		
2,600.0	2,542.5	2,490.3	2,484.9	9.7	5.1	-179.53	41.3	-365.6	831.8	823.0	8.78	94.708		
2,700.0	2,637.8	2,583.2	2,577.6	10.3	5.3	-179.47	43.1	-372.1	868.8	859.6	9.11	95.316		
2,800.0	2,733.1	2,676.1	2,670.3	10.8	5.5	-179.41	44.9	-378.6	905.8	896.3	9.45	95.881		
2,900.0	2,828.4	2,769.0	2,762.9	11.4	5.7	-179.36	46.7	-385.1	942.7	933.0	9.78	96.408		
3,000.0	2,923.7	2,861.9	2,855.6	12.0	5.9	-179.31	48.4	-391.6	979.7	969.6	10.11	96.900		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
0.0	0.0	1.0	1.0	0.0	0.0	-89.71	1.0	-210.1	210.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.71	1.0	-210.1	210.1	209.8	0.30	704.043		
200.0	200.0	201.0	201.0	0.3	0.3	-89.71	1.0	-210.1	210.1	209.5	0.65	324.505 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.84	1.0	-210.1	211.0	210.0	0.99	212.089		
400.0	400.0	397.0	397.0	0.7	0.7	174.99	1.4	-211.0	214.5	213.2	1.34	160.253		
500.0	499.9	492.8	492.7	0.9	0.8	175.34	2.4	-213.6	221.6	219.9	1.68	131.885		
600.0	599.7	590.3	590.1	1.1	1.0	175.85	4.1	-217.8	232.0	230.0	2.03	114.544		
700.0	699.4	689.5	689.2	1.3	1.2	176.36	5.8	-222.3	244.4	242.0	2.37	102.924		
800.0	798.9	788.5	788.1	1.5	1.4	176.85	7.6	-226.7	258.5	255.7	2.72	94.940		
900.0	898.3	887.2	886.7	1.8	1.6	177.30	9.3	-231.2	274.3	271.2	3.07	89.353		
1,000.0	997.4	985.6	985.0	2.0	1.8	177.72	11.1	-235.6	291.9	288.5	3.42	85.430		
1,100.0	1,096.3	1,083.7	1,083.0	2.3	2.0	178.10	12.8	-240.0	311.2	307.4	3.76	82.708		
1,200.0	1,194.9	1,181.5	1,180.6	2.7	2.1	178.44	14.5	-244.4	332.2	328.1	4.11	80.881		
1,300.0	1,293.3	1,278.8	1,277.9	3.0	2.3	178.75	16.2	-248.8	354.9	350.5	4.45	79.740		
1,400.0	1,391.2	1,375.8	1,374.7	3.4	2.5	179.03	18.0	-253.2	379.4	374.6	4.79	79.135		
1,500.0	1,488.9	1,472.3	1,471.1	3.8	2.7	179.27	19.7	-257.5	405.5	400.4	5.14	78.958 SF		
1,600.0	1,586.1	1,568.3	1,567.0	4.2	2.9	179.49	21.4	-261.8	433.3	427.9	5.48	79.127		
1,700.0	1,682.9	1,663.9	1,662.5	4.7	3.1	179.69	23.0	-266.1	462.8	457.0	5.82	79.581		
1,800.0	1,779.3	1,758.9	1,757.3	5.2	3.3	179.86	24.7	-270.4	494.0	487.8	6.15	80.272		
1,900.0	1,875.2	1,853.3	1,851.7	5.8	3.4	-179.99	26.4	-274.6	526.8	520.3	6.49	81.163		
1,960.5	1,933.0	1,910.2	1,908.5	6.1	3.6	-179.90	27.4	-277.2	547.5	540.8	6.69	81.787		
2,000.0	1,970.6	1,947.2	1,945.5	6.3	3.6	-179.85	28.1	-278.9	561.2	554.3	6.83	82.204		
2,100.0	2,065.9	2,041.0	2,039.2	6.9	3.8	-179.73	29.7	-283.1	595.8	588.7	7.16	83.194		
2,200.0	2,161.2	2,134.8	2,132.9	7.4	4.0	-179.63	31.4	-287.3	630.5	623.0	7.50	84.097		
2,300.0	2,256.5	2,228.6	2,226.6	8.0	4.2	-179.53	33.0	-291.5	665.1	657.3	7.83	84.923		
2,400.0	2,351.8	2,322.4	2,320.2	8.5	4.4	-179.44	34.7	-295.7	699.8	691.6	8.17	85.681		
2,500.0	2,447.2	2,416.2	2,413.9	9.1	4.5	-179.37	36.3	-300.0	734.4	725.9	8.50	86.381		
2,600.0	2,542.5	2,510.0	2,507.6	9.7	4.7	-179.30	38.0	-304.2	769.1	760.2	8.84	87.027		
2,700.0	2,637.8	2,603.8	2,601.3	10.3	4.9	-179.23	39.7	-308.4	803.7	794.6	9.17	87.627		
2,800.0	2,733.1	2,697.6	2,695.0	10.8	5.1	-179.17	41.3	-312.6	838.4	828.9	9.51	88.184		
2,900.0	2,828.4	2,791.4	2,788.7	11.4	5.3	-179.12	43.0	-316.8	873.0	863.2	9.84	88.704		
3,000.0	2,923.7	2,885.2	2,882.4	12.0	5.4	-179.07	44.6	-321.0	907.7	897.5	10.18	89.189		
3,100.0	3,019.1	2,979.0	2,976.1	12.5	5.6	-179.02	46.3	-325.3	942.3	931.8	10.51	89.644		
3,200.0	3,114.4	3,072.8	3,069.8	13.1	5.8	-178.98	47.9	-329.5	977.0	966.2	10.85	90.071		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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)						
0.0	0.0	1.0	1.0	0.0	0.0	-89.71	1.0	-200.0	200.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.71	1.0	-200.0	200.1	199.8	0.30	670.294		
200.0	200.0	201.0	201.0	0.3	0.3	-89.71	1.0	-200.0	200.1	199.4	0.65	308.950 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.84	1.0	-200.0	200.9	199.9	0.99	201.964		
400.0	400.0	398.1	398.0	0.7	0.7	175.04	1.5	-200.7	204.2	202.9	1.34	152.349		
500.0	499.9	496.3	496.3	0.9	0.8	175.48	2.8	-202.7	210.6	208.9	1.69	124.798		
600.0	599.7	595.9	595.9	1.1	1.0	175.98	4.2	-204.8	218.8	216.8	2.04	107.446		
700.0	699.4	695.4	695.3	1.3	1.2	176.46	5.7	-207.0	228.8	226.5	2.39	95.920		
800.0	798.9	794.7	794.6	1.5	1.4	176.92	7.1	-209.1	240.6	237.9	2.73	87.989		
900.0	898.3	893.8	893.6	1.8	1.6	177.36	8.6	-211.2	254.1	251.0	3.08	82.432		
1,000.0	997.4	992.6	992.4	2.0	1.7	177.77	10.0	-213.4	269.4	265.9	3.43	78.524		
1,100.0	1,096.3	1,091.1	1,090.9	2.3	1.9	178.15	11.5	-215.5	286.3	282.6	3.78	75.809		
1,200.0	1,194.9	1,189.3	1,189.1	2.7	2.1	178.49	12.9	-217.6	305.1	300.9	4.12	73.983		
1,300.0	1,293.3	1,287.2	1,286.9	3.0	2.3	178.80	14.3	-219.7	325.5	321.0	4.47	72.839		
1,400.0	1,391.2	1,384.7	1,384.4	3.4	2.4	179.08	15.7	-221.8	347.6	342.8	4.81	72.228		
1,500.0	1,488.9	1,481.8	1,481.4	3.8	2.6	179.33	17.2	-223.9	371.5	366.3	5.16	72.043 SF		
1,600.0	1,586.1	1,578.5	1,578.1	4.2	2.8	179.55	18.6	-226.0	397.0	391.5	5.50	72.202		
1,700.0	1,682.9	1,674.7	1,674.3	4.7	3.0	179.74	20.0	-228.0	424.3	418.4	5.84	72.645		
1,800.0	1,779.3	1,770.4	1,769.9	5.2	3.1	179.92	21.4	-230.1	453.2	447.0	6.18	73.324		
1,900.0	1,875.2	1,865.6	1,865.1	5.8	3.3	-179.93	22.8	-232.2	483.8	477.2	6.52	74.202		
1,960.5	1,933.0	1,923.0	1,922.5	6.1	3.4	-179.85	23.6	-233.4	503.1	496.4	6.72	74.817		
2,000.0	1,970.6	1,960.3	1,959.8	6.3	3.5	-179.80	24.1	-234.2	515.9	509.0	6.86	75.229		
2,100.0	2,065.9	2,054.9	2,054.3	6.9	3.6	-179.68	25.5	-236.2	548.3	541.1	7.19	76.206		
2,200.0	2,161.2	2,149.5	2,148.9	7.4	3.8	-179.57	26.9	-238.3	580.7	573.2	7.53	77.097		
2,300.0	2,256.5	2,244.1	2,243.5	8.0	4.0	-179.48	28.3	-240.3	613.1	605.3	7.87	77.911		
2,400.0	2,351.8	2,338.7	2,338.0	8.5	4.2	-179.39	29.7	-242.3	645.6	637.3	8.21	78.659		
2,500.0	2,447.2	2,433.3	2,432.6	9.1	4.3	-179.32	31.1	-244.4	678.0	669.4	8.54	79.348		
2,600.0	2,542.5	2,527.9	2,527.1	9.7	4.5	-179.25	32.4	-246.4	710.4	701.5	8.88	79.985		
2,700.0	2,637.8	2,622.5	2,621.7	10.3	4.7	-179.18	33.8	-248.5	742.8	733.6	9.22	80.576		
2,800.0	2,733.1	2,717.1	2,716.3	10.8	4.8	-179.13	35.2	-250.5	775.3	765.7	9.56	81.125		
2,900.0	2,828.4	2,811.6	2,810.8	11.4	5.0	-179.07	36.6	-252.5	807.7	797.8	9.89	81.637		
3,000.0	2,923.7	2,906.2	2,905.4	12.0	5.2	-179.02	38.0	-254.6	840.1	829.9	10.23	82.115		
3,100.0	3,019.1	3,000.8	3,000.0	12.5	5.4	-178.98	39.3	-256.6	872.5	862.0	10.57	82.562		
3,200.0	3,114.4	3,095.4	3,094.5	13.1	5.5	-178.94	40.7	-258.6	905.0	894.1	10.91	82.982		
3,300.0	3,209.7	3,190.0	3,189.1	13.7	5.7	-178.90	42.1	-260.7	937.4	926.2	11.24	83.377		
3,400.0	3,305.0	3,284.6	3,283.6	14.3	5.9	-178.86	43.5	-262.7	969.8	958.3	11.58	83.749		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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	-89.72	0.9	-190.0	190.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.72	0.9	-190.0	190.0	189.7	0.30	636.544		
200.0	200.0	201.0	201.0	0.3	0.3	-89.72	0.9	-190.0	190.0	189.3	0.65	293.394 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	174.84	0.9	-190.0	190.8	189.9	1.00	191.501		
400.0	400.0	401.0	401.0	0.7	0.7	174.91	0.9	-190.0	193.5	192.1	1.35	143.758		
500.0	499.9	504.5	504.5	0.9	0.9	175.02	0.9	-189.0	196.9	195.2	1.70	115.753		
600.0	599.7	608.0	607.9	1.1	1.0	175.18	0.9	-186.2	200.2	198.2	2.06	97.392		
700.0	699.4	711.6	711.4	1.3	1.2	175.38	0.9	-181.5	203.5	201.1	2.41	84.415		
800.0	798.9	812.1	811.8	1.5	1.4	175.61	0.9	-175.7	207.4	204.6	2.76	75.089		
900.0	898.3	912.0	911.5	1.8	1.6	175.87	0.9	-170.0	212.9	209.8	3.11	68.437		
1,000.0	997.4	1,011.7	1,011.1	2.0	1.8	176.14	0.9	-164.3	220.2	216.8	3.46	63.635		
1,100.0	1,096.3	1,111.3	1,110.5	2.3	2.0	176.42	0.8	-158.5	229.3	225.5	3.81	60.175		
1,200.0	1,194.9	1,210.7	1,209.7	2.7	2.2	176.70	0.8	-152.8	240.0	235.9	4.16	57.719		
1,300.0	1,293.3	1,309.9	1,308.8	3.0	2.4	176.97	0.8	-147.1	252.6	248.0	4.51	56.033		
1,400.0	1,391.2	1,408.9	1,407.6	3.4	2.6	177.24	0.8	-141.4	266.8	261.9	4.86	54.952		
1,500.0	1,488.9	1,507.6	1,506.1	3.8	2.8	177.50	0.8	-135.7	282.8	277.6	5.20	54.354		
1,600.0	1,586.1	1,606.0	1,604.4	4.2	3.0	177.74	0.7	-130.1	300.5	294.9	5.55	54.148 SF		
1,700.0	1,682.9	1,704.1	1,702.3	4.7	3.2	177.96	0.7	-124.4	319.9	314.0	5.90	54.264		
1,800.0	1,779.3	1,801.8	1,799.9	5.2	3.4	178.17	0.7	-118.8	341.0	334.8	6.24	54.648		
1,900.0	1,875.2	1,899.2	1,897.1	5.8	3.6	178.36	0.7	-113.2	363.9	357.3	6.58	55.258		
1,960.5	1,933.0	1,957.9	1,955.7	6.1	3.7	178.47	0.7	-109.8	378.5	371.7	6.79	55.723		
2,000.0	1,970.6	1,996.1	1,993.9	6.3	3.8	178.54	0.7	-107.6	388.3	381.3	6.93	56.041		
2,100.0	2,065.9	2,093.0	2,090.6	6.9	4.0	178.70	0.7	-102.1	413.0	405.7	7.27	56.796		
2,200.0	2,161.2	2,189.9	2,187.3	7.4	4.2	178.84	0.6	-96.5	437.7	430.1	7.61	57.484		
2,300.0	2,256.5	2,286.8	2,284.1	8.0	4.3	178.97	0.6	-90.9	462.4	454.5	7.96	58.113		
2,400.0	2,351.8	2,383.7	2,380.8	8.5	4.5	179.09	0.6	-85.3	487.2	478.9	8.30	58.691		
2,500.0	2,447.2	2,480.6	2,477.5	9.1	4.7	179.19	0.6	-79.8	511.9	503.2	8.64	59.224		
2,600.0	2,542.5	2,577.5	2,574.2	9.7	4.9	179.28	0.6	-74.2	536.6	527.6	8.99	59.716		
2,700.0	2,637.8	2,674.4	2,671.0	10.3	5.1	179.37	0.5	-68.6	561.3	552.0	9.33	60.173		
2,800.0	2,733.1	2,771.3	2,767.7	10.8	5.3	179.45	0.5	-63.1	586.1	576.4	9.67	60.598		
2,900.0	2,828.4	2,868.2	2,864.4	11.4	5.5	179.52	0.5	-57.5	610.8	600.8	10.01	60.994		
3,000.0	2,923.7	2,965.0	2,961.2	12.0	5.7	179.59	0.5	-51.9	635.5	625.2	10.36	61.363		
3,100.0	3,019.1	3,061.9	3,057.9	12.5	5.9	179.65	0.5	-46.3	660.3	649.6	10.70	61.710		
3,200.0	3,114.4	3,158.8	3,154.6	13.1	6.1	179.70	0.5	-40.8	685.0	674.0	11.04	62.035		
3,300.0	3,209.7	3,255.7	3,251.4	13.7	6.3	179.76	0.4	-35.2	709.7	698.4	11.38	62.340		
3,400.0	3,305.0	3,352.6	3,348.1	14.3	6.5	179.81	0.4	-29.6	734.5	722.7	11.73	62.628		
3,500.0	3,400.3	3,449.5	3,444.8	14.8	6.7	179.85	0.4	-24.0	759.2	747.1	12.07	62.899		
3,600.0	3,495.6	3,546.4	3,541.5	15.4	6.9	179.90	0.4	-18.5	783.9	771.5	12.41	63.156		
3,700.0	3,591.0	3,643.3	3,638.3	16.0	7.1	179.94	0.4	-12.9	808.7	795.9	12.76	63.399		
3,800.0	3,686.3	3,740.2	3,735.0	16.6	7.3	179.98	0.4	-7.3	833.4	820.3	13.10	63.629		
3,900.0	3,781.6	3,837.1	3,831.7	17.1	7.5	-179.99	0.3	-1.7	858.2	844.7	13.44	63.847		
4,000.0	3,876.9	3,934.0	3,928.5	17.7	7.7	-179.95	0.3	3.8	882.9	869.1	13.78	64.055		
4,100.0	3,972.2	4,030.8	4,025.2	18.3	7.8	-179.92	0.3	9.4	907.6	893.5	14.13	64.252		
4,200.0	4,067.5	4,127.7	4,121.9	18.9	8.0	-179.89	0.3	15.0	932.4	917.9	14.47	64.441		
4,300.0	4,162.9	4,224.6	4,218.7	19.4	8.2	-179.86	0.3	20.5	957.1	942.3	14.81	64.620		
4,400.0	4,258.2	4,321.5	4,315.4	20.0	8.4	-179.84	0.2	26.1	981.8	966.7	15.15	64.792		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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			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	-89.65	1.1	-180.2	180.2					
100.0	100.0	101.0	101.0	0.1	0.2	-89.65	1.1	-180.2	180.2	179.9	0.30	603.737		
200.0	200.0	201.0	201.0	0.3	0.3	-89.65	1.1	-180.2	180.2	179.5	0.65	278.272	CC, ES	
300.0	300.0	301.0	301.0	0.5	0.5	174.91	1.1	-180.2	181.1	180.1	1.00	181.676		
400.0	400.0	401.0	401.0	0.7	0.7	174.98	1.1	-180.2	183.7	182.3	1.35	136.482		
500.0	499.9	504.3	504.3	0.9	0.9	175.10	1.1	-179.2	187.1	185.4	1.70	110.018		
600.0	599.7	607.6	607.6	1.1	1.0	175.26	1.1	-176.4	190.5	188.4	2.06	92.663		
700.0	699.4	711.0	710.9	1.3	1.2	175.47	1.1	-171.7	193.8	191.3	2.41	80.393		
800.0	798.9	814.5	814.1	1.5	1.4	175.73	1.1	-165.2	197.0	194.2	2.76	71.253		
900.0	898.3	917.1	916.4	1.8	1.6	176.02	1.0	-156.9	200.2	197.1	3.12	64.219		
1,000.0	997.4	1,017.0	1,015.9	2.0	1.9	176.33	1.0	-148.4	204.7	201.3	3.47	59.035		
1,100.0	1,096.3	1,116.8	1,115.3	2.3	2.1	176.65	1.0	-139.9	211.0	207.2	3.82	55.261		
1,200.0	1,194.9	1,216.4	1,214.6	2.7	2.3	176.98	1.0	-131.3	219.0	214.8	4.17	52.542		
1,300.0	1,293.3	1,315.9	1,313.8	3.0	2.5	177.30	1.0	-122.8	228.7	224.2	4.52	50.633		
1,400.0	1,391.2	1,415.3	1,412.8	3.4	2.7	177.61	1.0	-114.3	240.2	235.3	4.87	49.359		
1,500.0	1,488.9	1,514.4	1,511.5	3.8	3.0	177.92	1.0	-105.9	253.4	248.2	5.22	48.593		
1,600.0	1,586.1	1,613.3	1,610.0	4.2	3.2	178.20	0.9	-97.4	268.4	262.8	5.56	48.238		
1,700.0	1,682.9	1,711.8	1,708.2	4.7	3.4	178.46	0.9	-89.0	285.0	279.1	5.91	48.222	SF	
1,800.0	1,779.3	1,810.1	1,806.2	5.2	3.6	178.70	0.9	-80.6	303.4	297.2	6.26	48.487		
1,900.0	1,875.2	1,908.1	1,903.7	5.8	3.8	178.92	0.9	-72.2	323.6	317.0	6.60	48.990		
1,960.5	1,933.0	1,967.2	1,962.7	6.1	4.0	179.04	0.9	-67.2	336.6	329.8	6.81	49.393		
2,000.0	1,970.6	2,005.7	2,001.0	6.3	4.1	179.11	0.9	-63.9	345.3	338.3	6.95	49.674		
2,100.0	2,065.9	2,103.2	2,098.2	6.9	4.3	179.29	0.9	-55.5	367.3	360.0	7.30	50.338		
2,200.0	2,161.2	2,200.8	2,195.4	7.4	4.5	179.45	0.9	-47.2	389.3	381.6	7.64	50.943		
2,300.0	2,256.5	2,298.3	2,292.6	8.0	4.7	179.59	0.8	-38.9	411.3	403.3	7.99	51.496		
2,400.0	2,351.8	2,395.8	2,389.7	8.5	5.0	179.72	0.8	-30.5	433.3	425.0	8.33	52.003		
2,500.0	2,447.2	2,493.4	2,486.9	9.1	5.2	179.83	0.8	-22.2	455.3	446.7	8.68	52.471		
2,600.0	2,542.5	2,590.9	2,584.1	9.7	5.4	179.93	0.8	-13.8	477.4	468.3	9.02	52.902		
2,700.0	2,637.8	2,688.5	2,681.3	10.3	5.6	-179.97	0.8	-5.5	499.4	490.0	9.37	53.302		
2,800.0	2,733.1	2,786.0	2,778.5	10.8	5.8	-179.88	0.8	2.8	521.4	511.7	9.71	53.674		
2,900.0	2,828.4	2,883.6	2,875.7	11.4	6.1	-179.80	0.7	11.2	543.4	533.4	10.06	54.020		
3,000.0	2,923.7	2,981.1	2,972.8	12.0	6.3	-179.73	0.7	19.5	565.5	555.1	10.41	54.343		
3,100.0	3,019.1	3,078.6	3,070.0	12.5	6.5	-179.66	0.7	27.8	587.5	576.7	10.75	54.646		
3,200.0	3,114.4	3,176.2	3,167.2	13.1	6.7	-179.60	0.7	36.2	609.5	598.4	11.10	54.929		
3,300.0	3,209.7	3,273.7	3,264.4	13.7	7.0	-179.54	0.7	44.5	631.5	620.1	11.44	55.196		
3,400.0	3,305.0	3,371.3	3,361.6	14.3	7.2	-179.49	0.7	52.9	653.6	641.8	11.79	55.447		
3,500.0	3,400.3	3,468.8	3,458.8	14.8	7.4	-179.44	0.7	61.2	675.6	663.5	12.13	55.683		
3,600.0	3,495.6	3,566.3	3,556.0	15.4	7.6	-179.39	0.6	69.5	697.6	685.2	12.48	55.906		
3,700.0	3,591.0	3,663.9	3,653.1	16.0	7.9	-179.34	0.6	77.9	719.7	706.8	12.82	56.118		
3,800.0	3,686.3	3,761.4	3,750.3	16.6	8.1	-179.30	0.6	86.2	741.7	728.5	13.17	56.318		
3,900.0	3,781.6	3,859.0	3,847.5	17.1	8.3	-179.26	0.6	94.6	763.7	750.2	13.52	56.508		
4,000.0	3,876.9	3,956.5	3,944.7	17.7	8.5	-179.22	0.6	102.9	785.8	771.9	13.86	56.688		
4,100.0	3,972.2	4,054.1	4,041.9	18.3	8.7	-179.19	0.6	111.2	807.8	793.6	14.21	56.860		
4,200.0	4,067.5	4,151.6	4,139.1	18.9	9.0	-179.16	0.6	119.6	829.8	815.3	14.55	57.023		
4,300.0	4,162.9	4,249.1	4,236.2	19.4	9.2	-179.12	0.5	127.9	851.9	837.0	14.90	57.179		
4,400.0	4,258.2	4,346.7	4,333.4	20.0	9.4	-179.09	0.5	136.2	873.9	858.7	15.24	57.327		
4,500.0	4,353.5	4,444.2	4,430.6	20.6	9.6	-179.06	0.5	144.6	895.9	880.3	15.59	57.469		
4,600.0	4,448.8	4,541.8	4,527.8	21.2	9.9	-179.04	0.5	152.9	918.0	902.0	15.94	57.605		
4,700.0	4,544.1	4,639.3	4,625.0	21.7	10.1	-179.01	0.5	161.3	940.0	923.7	16.28	57.735		
4,800.0	4,639.4	4,736.8	4,722.2	22.3	10.3	-178.99	0.5	169.6	962.0	945.4	16.63	57.860		
4,900.0	4,734.7	4,834.4	4,819.4	22.9	10.5	-178.96	0.5	177.9	984.1	967.1	16.97	57.979		

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 4W-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 4W-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			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	1.1	-170.1	170.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.63	1.1	-170.1	170.1	169.8	0.30	569.989		
116.3	116.3	117.3	117.3	0.2	0.2	-89.63	1.1	-170.1	170.1	169.8	0.36	478.582 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-89.63	1.1	-170.1	170.1	169.5	0.65	262.714 ES		
300.0	300.0	301.0	301.0	0.5	0.5	175.23	2.0	-170.1	171.0	170.0	1.00	171.418		
400.0	400.0	400.8	400.8	0.7	0.7	176.16	4.6	-170.1	173.7	172.3	1.35	128.475		
500.0	499.9	500.5	500.4	0.9	0.9	177.66	9.0	-170.1	178.2	176.5	1.71	104.000		
600.0	599.7	599.9	599.5	1.1	1.1	179.62	15.0	-170.1	184.7	182.6	2.09	88.572		
700.0	699.4	702.3	701.8	1.3	1.3	-178.37	21.7	-169.3	192.5	190.1	2.46	78.139		
800.0	798.9	805.0	804.3	1.5	1.5	-176.76	27.3	-167.0	200.6	197.8	2.84	70.653		
900.0	898.3	908.0	907.0	1.8	1.7	-175.52	32.0	-163.2	209.0	205.8	3.21	65.045		
1,000.0	997.4	1,011.1	1,010.0	2.0	1.9	-174.60	35.6	-157.8	217.5	213.9	3.58	60.698		
1,100.0	1,096.3	1,114.4	1,113.0	2.3	2.1	-173.97	38.2	-150.9	226.1	222.2	3.95	57.238		
1,200.0	1,194.9	1,217.8	1,216.1	2.7	2.3	-173.61	39.8	-142.3	234.8	230.5	4.31	54.428		
1,300.0	1,293.3	1,321.5	1,319.2	3.0	2.5	-173.49	40.3	-132.3	243.6	238.9	4.67	52.112		
1,400.0	1,391.2	1,424.8	1,421.9	3.4	2.7	-173.58	39.8	-120.7	252.4	247.4	5.03	50.184		
1,500.0	1,488.9	1,524.3	1,520.7	3.8	3.0	-173.75	38.9	-108.9	262.3	257.0	5.38	48.747		
1,600.0	1,586.1	1,623.6	1,619.3	4.2	3.2	-173.96	38.0	-97.2	274.0	268.2	5.73	47.792		
1,700.0	1,682.9	1,722.7	1,717.7	4.7	3.4	-174.17	37.2	-85.5	287.3	281.2	6.08	47.237		
1,800.0	1,779.3	1,821.5	1,815.9	5.2	3.7	-174.40	36.3	-73.8	302.4	296.0	6.43	47.016 SF		
1,900.0	1,875.2	1,920.1	1,913.7	5.8	3.9	-174.64	35.4	-62.2	319.2	312.4	6.78	47.077		
1,960.5	1,933.0	1,979.6	1,972.8	6.1	4.1	-174.78	34.9	-55.1	330.2	323.2	6.99	47.235		
2,000.0	1,970.6	2,018.4	2,011.3	6.3	4.2	-174.88	34.6	-50.6	337.6	330.4	7.13	47.363		
2,100.0	2,065.9	2,116.6	2,108.9	6.9	4.4	-175.11	33.7	-39.0	356.3	348.8	7.47	47.667		
2,200.0	2,161.2	2,214.9	2,206.4	7.4	4.7	-175.31	32.8	-27.4	375.0	367.2	7.82	47.947		
2,300.0	2,256.5	2,313.1	2,303.9	8.0	4.9	-175.50	32.0	-15.7	393.7	385.5	8.17	48.205		
2,400.0	2,351.8	2,411.3	2,401.5	8.5	5.2	-175.67	31.1	-4.1	412.4	403.9	8.51	48.443		
2,500.0	2,447.2	2,509.5	2,499.0	9.1	5.4	-175.83	30.3	7.5	431.1	422.2	8.86	48.664		
2,600.0	2,542.5	2,607.8	2,596.5	9.7	5.7	-175.97	29.4	19.1	449.8	440.6	9.20	48.868		
2,700.0	2,637.8	2,706.0	2,694.1	10.3	6.0	-176.10	28.5	30.7	468.5	459.0	9.55	49.059		
2,800.0	2,733.1	2,804.2	2,791.6	10.8	6.2	-176.22	27.7	42.3	487.3	477.4	9.90	49.237		
2,900.0	2,828.4	2,902.4	2,889.1	11.4	6.5	-176.33	26.8	53.9	506.0	495.7	10.24	49.403		
3,000.0	2,923.7	3,000.7	2,986.7	12.0	6.7	-176.44	25.9	65.5	524.7	514.1	10.59	49.558		
3,100.0	3,019.1	3,098.9	3,084.2	12.5	7.0	-176.53	25.1	77.1	543.4	532.5	10.93	49.705		
3,200.0	3,114.4	3,197.1	3,181.8	13.1	7.3	-176.62	24.2	88.7	562.2	550.9	11.28	49.842		
3,300.0	3,209.7	3,295.3	3,279.3	13.7	7.5	-176.71	23.3	100.3	580.9	569.3	11.62	49.971		
3,400.0	3,305.0	3,393.6	3,376.8	14.3	7.8	-176.79	22.5	111.9	599.6	587.7	11.97	50.093		
3,500.0	3,400.3	3,491.8	3,474.4	14.8	8.0	-176.86	21.6	123.5	618.4	606.0	12.32	50.208		
3,600.0	3,495.6	3,590.0	3,571.9	15.4	8.3	-176.93	20.7	135.1	637.1	624.4	12.66	50.317		
3,700.0	3,591.0	3,688.3	3,669.4	16.0	8.6	-177.00	19.9	146.7	655.8	642.8	13.01	50.420		
3,800.0	3,686.3	3,786.5	3,767.0	16.6	8.8	-177.06	19.0	158.3	674.6	661.2	13.35	50.518		
3,900.0	3,781.6	3,884.7	3,864.5	17.1	9.1	-177.12	18.1	169.9	693.3	679.6	13.70	50.611		
4,000.0	3,876.9	3,982.9	3,962.0	17.7	9.4	-177.17	17.3	181.5	712.0	698.0	14.04	50.699		
4,100.0	3,972.2	4,081.2	4,059.6	18.3	9.6	-177.23	16.4	193.1	730.8	716.4	14.39	50.783		
4,200.0	4,067.5	4,179.4	4,157.1	18.9	9.9	-177.28	15.6	204.7	749.5	734.8	14.74	50.863		
4,300.0	4,162.9	4,277.6	4,254.6	19.4	10.1	-177.33	14.7	216.3	768.2	753.1	15.08	50.940		
4,400.0	4,258.2	4,375.8	4,352.2	20.0	10.4	-177.37	13.8	227.9	787.0	771.5	15.43	51.013		
4,500.0	4,353.5	4,474.1	4,449.7	20.6	10.7	-177.41	13.0	239.5	805.7	789.9	15.77	51.083		
4,600.0	4,448.8	4,572.3	4,547.2	21.2	10.9	-177.46	12.1	251.1	824.4	808.3	16.12	51.149		
4,700.0	4,544.1	4,670.5	4,644.8	21.7	11.2	-177.50	11.2	262.7	843.2	826.7	16.46	51.213		
4,800.0	4,639.4	4,768.8	4,742.3	22.3	11.5	-177.53	10.4	274.3	861.9	845.1	16.81	51.275		
4,900.0	4,734.7	4,867.0	4,839.9	22.9	11.7	-177.57	9.5	285.9	880.7	863.5	17.16	51.334		

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 4W-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 4W-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	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	4,830.1	4,965.2	4,937.4	23.5	12.0	-177.60	8.6	297.5	899.4	881.9	17.50	51.390					
5,100.0	4,925.4	5,063.4	5,034.9	24.0	12.3	-177.64	7.8	309.1	918.1	900.3	17.85	51.444					
5,200.0	5,020.7	5,161.7	5,132.5	24.6	12.5	-177.67	6.9	320.7	936.9	918.7	18.19	51.497					
5,300.0	5,116.0	5,259.9	5,230.0	25.2	12.8	-177.70	6.0	332.3	955.6	937.1	18.54	51.547					
5,400.0	5,211.3	5,358.1	5,327.5	25.8	13.1	-177.73	5.2	343.9	974.4	955.5	18.88	51.595					
5,500.0	5,306.6	5,456.3	5,425.1	26.3	13.3	-177.76	4.3	355.5	993.1	973.9	19.23	51.642					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
0.0	0.0	1.0	1.0	0.0	0.0	-89.72	0.8	-160.0	160.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.72	0.8	-160.0	160.0	159.7	0.30	536.235		
200.0	200.0	201.0	201.0	0.3	0.3	-89.72	0.8	-160.0	160.0	159.4	0.65	247.159 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	174.84	0.8	-160.0	160.9	159.9	1.00	161.461		
400.0	400.0	401.0	401.0	0.7	0.7	174.92	0.8	-160.0	163.5	162.2	1.35	121.516		
500.0	499.9	500.9	500.9	0.9	0.8	175.05	0.8	-160.0	167.9	166.2	1.69	99.053		
600.0	599.7	603.8	603.8	1.1	1.0	175.23	0.8	-159.1	173.0	171.0	2.05	84.446		
700.0	699.4	706.8	706.8	1.3	1.2	175.47	0.8	-156.3	178.1	175.7	2.40	74.124		
800.0	798.9	810.0	809.8	1.5	1.4	175.76	0.9	-151.7	183.2	180.5	2.76	66.436		
900.0	898.3	913.2	912.8	1.8	1.6	176.09	1.0	-145.1	188.2	185.1	3.11	60.483		
1,000.0	997.4	1,016.5	1,015.8	2.0	1.8	176.47	1.2	-136.8	193.2	189.7	3.47	55.734		
1,100.0	1,096.3	1,119.9	1,118.7	2.3	2.0	176.89	1.3	-126.5	198.1	194.3	3.82	51.855		
1,200.0	1,194.9	1,223.4	1,221.4	2.7	2.3	177.34	1.5	-114.4	202.9	198.8	4.17	48.624		
1,300.0	1,293.3	1,326.9	1,324.1	3.0	2.6	177.84	1.7	-100.5	207.8	203.2	4.53	45.888		
1,400.0	1,391.2	1,430.6	1,426.5	3.4	2.9	178.36	2.0	-84.6	212.5	207.6	4.88	43.540		
1,500.0	1,488.9	1,531.4	1,525.9	3.8	3.2	178.89	2.3	-67.9	217.7	212.5	5.23	41.601		
1,600.0	1,586.1	1,631.1	1,624.3	4.2	3.5	179.39	2.5	-51.4	224.7	219.1	5.59	40.209		
1,700.0	1,682.9	1,730.7	1,722.5	4.7	3.8	179.87	2.8	-34.8	233.4	227.4	5.94	39.275		
1,800.0	1,779.3	1,830.2	1,820.5	5.2	4.1	-179.69	3.1	-18.3	243.8	237.5	6.30	38.719		
1,900.0	1,875.2	1,929.4	1,918.4	5.8	4.4	-179.29	3.3	-1.8	256.0	249.3	6.65	38.482		
1,960.5	1,933.0	1,989.4	1,977.5	6.1	4.6	-179.07	3.5	8.2	264.2	257.4	6.87	38.471		
2,000.0	1,970.6	2,028.4	2,016.0	6.3	4.8	-178.93	3.6	14.6	269.8	262.8	7.01	38.494		
2,100.0	2,065.9	2,127.4	2,113.7	6.9	5.1	-178.61	3.9	31.1	283.9	276.5	7.37	38.546		
2,200.0	2,161.2	2,226.4	2,211.3	7.4	5.4	-178.32	4.1	47.5	298.0	290.3	7.72	38.590		
2,300.0	2,256.5	2,325.4	2,308.9	8.0	5.7	-178.06	4.4	64.0	312.2	304.1	8.08	38.627		
2,400.0	2,351.8	2,424.4	2,406.5	8.5	6.1	-177.82	4.6	80.4	326.3	317.9	8.44	38.658		
2,500.0	2,447.2	2,523.4	2,504.1	9.1	6.4	-177.60	4.9	96.9	340.5	331.7	8.80	38.684		
2,600.0	2,542.5	2,622.4	2,601.7	9.7	6.7	-177.40	5.2	113.3	354.6	345.5	9.16	38.705		
2,700.0	2,637.8	2,721.3	2,699.3	10.3	7.1	-177.21	5.4	129.8	368.8	359.2	9.52	38.722		
2,800.0	2,733.1	2,820.3	2,796.9	10.8	7.4	-177.04	5.7	146.2	382.9	373.0	9.89	38.735		
2,900.0	2,828.4	2,919.3	2,894.5	11.4	7.7	-176.87	6.0	162.7	397.1	386.8	10.25	38.746		
3,000.0	2,923.7	3,018.3	2,992.1	12.0	8.1	-176.72	6.2	179.1	411.3	400.6	10.61	38.754		
3,100.0	3,019.1	3,117.3	3,089.8	12.5	8.4	-176.58	6.5	195.6	425.4	414.4	10.98	38.759		
3,200.0	3,114.4	3,216.3	3,187.4	13.1	8.7	-176.45	6.8	212.0	439.6	428.2	11.34	38.763		
3,300.0	3,209.7	3,315.3	3,285.0	13.7	9.1	-176.33	7.0	228.5	453.8	442.1	11.71	38.765		
3,400.0	3,305.0	3,414.2	3,382.6	14.3	9.4	-176.21	7.3	244.9	467.9	455.9	12.07	38.766		
3,500.0	3,400.3	3,513.2	3,480.2	14.8	9.7	-176.11	7.6	261.4	482.1	469.7	12.44	38.765		
3,600.0	3,495.6	3,612.2	3,577.8	15.4	10.1	-176.00	7.8	277.8	496.3	483.5	12.80	38.763		
3,700.0	3,591.0	3,711.2	3,675.4	16.0	10.4	-175.91	8.1	294.3	510.5	497.3	13.17	38.760		
3,800.0	3,686.3	3,810.2	3,773.0	16.6	10.7	-175.81	8.4	310.7	524.6	511.1	13.54	38.757		
3,900.0	3,781.6	3,909.2	3,870.6	17.1	11.1	-175.73	8.6	327.2	538.8	524.9	13.90	38.752		
4,000.0	3,876.9	4,008.2	3,968.2	17.7	11.4	-175.65	8.9	343.6	553.0	538.7	14.27	38.748		
4,100.0	3,972.2	4,107.2	4,065.8	18.3	11.8	-175.57	9.1	360.1	567.2	552.5	14.64	38.742		
4,200.0	4,067.5	4,206.1	4,163.5	18.9	12.1	-175.49	9.4	376.5	581.4	566.4	15.01	38.736		
4,300.0	4,162.9	4,305.1	4,261.1	19.4	12.4	-175.42	9.7	393.0	595.6	580.2	15.38	38.730		
4,400.0	4,258.2	4,404.1	4,358.7	20.0	12.8	-175.35	9.9	409.4	609.7	594.0	15.75	38.724		
4,500.0	4,353.5	4,503.1	4,456.3	20.6	13.1	-175.29	10.2	425.9	623.9	607.8	16.12	38.717		
4,600.0	4,448.8	4,602.1	4,553.9	21.2	13.4	-175.23	10.5	442.3	638.1	621.6	16.48	38.710		
4,700.0	4,544.1	4,701.1	4,651.5	21.7	13.8	-175.17	10.7	458.8	652.3	635.5	16.85	38.703		
4,800.0	4,639.4	4,800.1	4,749.1	22.3	14.1	-175.11	11.0	475.2	666.5	649.3	17.22	38.696		
4,900.0	4,734.7	4,899.0	4,846.7	22.9	14.4	-175.06	11.3	491.7	680.7	663.1	17.59	38.688		
5,000.0	4,830.1	4,998.0	4,944.3	23.5	14.8	-175.01	11.5	508.1	694.9	676.9	17.96	38.681		

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 4W-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 4W-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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)				
5,100.0	4,925.4	5,097.0	5,041.9	24.0	15.1	-174.96	11.8	524.6	709.1	690.7	18.33	38.673		
5,200.0	5,020.7	5,196.0	5,139.6	24.6	15.5	-174.91	12.1	541.0	723.3	704.5	18.71	38.666		
5,300.0	5,116.0	5,295.0	5,237.2	25.2	15.8	-174.86	12.3	557.5	737.4	718.4	19.08	38.658		
5,400.0	5,211.3	5,394.0	5,334.8	25.8	16.1	-174.82	12.6	573.9	751.6	732.2	19.45	38.651		
5,500.0	5,306.6	5,493.0	5,432.4	26.3	16.5	-174.78	12.9	590.4	765.8	746.0	19.82	38.643		
5,600.0	5,402.0	5,591.9	5,530.0	26.9	16.8	-174.74	13.1	606.8	780.0	759.8	20.19	38.636		
5,700.0	5,497.3	5,690.9	5,627.6	27.5	17.1	-174.70	13.4	623.3	794.2	773.7	20.56	38.628		
5,800.0	5,592.6	5,789.9	5,725.2	28.1	17.5	-174.66	13.7	639.7	808.4	787.5	20.93	38.621		
5,900.0	5,687.9	5,888.9	5,822.8	28.7	17.8	-174.62	13.9	656.2	822.6	801.3	21.30	38.613		
6,000.0	5,783.2	5,987.9	5,920.4	29.2	18.2	-174.59	14.2	672.6	836.8	815.1	21.68	38.606		
6,100.0	5,878.5	6,086.9	6,018.0	29.8	18.5	-174.55	14.4	689.1	851.0	828.9	22.05	38.599		
6,200.0	5,973.9	6,185.9	6,115.6	30.4	18.8	-174.52	14.7	705.5	865.2	842.8	22.42	38.592		
6,300.0	6,069.2	6,284.8	6,213.3	31.0	19.2	-174.49	15.0	722.0	879.4	856.6	22.79	38.584		
6,400.0	6,164.5	6,383.8	6,310.9	31.5	19.5	-174.45	15.2	738.4	893.6	870.4	23.16	38.577		
6,500.0	6,259.8	6,482.8	6,408.5	32.1	19.8	-174.42	15.5	754.9	907.8	884.2	23.54	38.570		
6,600.0	6,355.1	6,581.8	6,506.1	32.7	20.2	-174.39	15.8	771.3	922.0	898.1	23.91	38.563		
6,700.0	6,450.4	6,680.8	6,603.7	33.3	20.5	-174.37	16.0	787.8	936.2	911.9	24.28	38.557		
6,800.0	6,545.8	6,779.8	6,701.3	33.9	20.9	-174.34	16.3	804.2	950.4	925.7	24.65	38.550		
6,900.0	6,641.1	6,905.4	6,824.8	34.4	21.3	-174.76	8.8	825.0	963.4	938.5	24.93	38.648		
6,981.7	6,719.0	7,009.9	6,925.4	34.9	21.6	-176.06	-13.8	842.0	971.9	947.0	24.93	38.989		
7,000.0	6,736.4	7,032.3	6,946.4	35.0	21.7	-171.73	-20.5	845.5	973.5	948.6	24.92	39.073		
7,050.0	6,784.1	7,090.0	6,999.6	35.3	21.9	-160.17	-41.0	854.5	977.4	952.5	24.89	39.262		
7,100.0	6,831.6	7,141.6	7,045.6	35.6	22.1	-149.84	-62.9	862.2	980.7	955.8	24.94	39.327		
7,150.0	6,878.6	7,186.3	7,084.2	35.8	22.3	-141.26	-84.5	868.7	984.1	959.0	25.09	39.224		
7,200.0	6,925.1	7,224.0	7,115.6	36.1	22.4	-134.43	-104.7	874.0	988.0	962.6	25.36	38.965		
7,250.0	6,970.6	7,255.0	7,140.7	36.3	22.5	-129.01	-122.5	878.3	993.0	967.2	25.72	38.601		
7,300.0	7,015.1	7,279.9	7,160.2	36.5	22.6	-124.62	-137.6	881.5	999.4	973.2	26.17	38.183 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	-89.72	0.7	-150.0	150.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.72	0.7	-150.0	150.0	149.7	0.30	502.485		
200.0	200.0	201.0	201.0	0.3	0.3	-89.72	0.7	-150.0	150.0	149.3	0.65	231.604 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	174.84	0.7	-150.0	150.8	149.8	1.00	151.354		
400.0	400.0	401.0	401.0	0.7	0.7	174.93	0.7	-150.0	153.4	152.1	1.35	114.029		
500.0	499.9	500.8	500.7	0.9	0.9	175.71	2.5	-150.0	157.8	156.1	1.70	93.012		
600.0	599.7	600.2	600.0	1.1	1.0	177.69	7.7	-150.0	164.1	162.1	2.06	79.720		
700.0	699.4	702.6	702.2	1.3	1.2	-179.92	14.5	-149.1	171.6	169.2	2.43	70.576		
800.0	798.9	805.1	804.5	1.5	1.4	-177.89	20.6	-146.6	179.4	176.6	2.81	63.908		
900.0	898.3	907.8	907.0	1.8	1.6	-176.18	26.1	-142.3	187.4	184.2	3.18	58.849		
1,000.0	997.4	1,010.8	1,009.6	2.0	1.9	-174.77	30.9	-136.3	195.5	191.9	3.56	54.877		
1,100.0	1,096.3	1,113.9	1,112.4	2.3	2.1	-173.61	35.0	-128.6	203.7	199.7	3.94	51.667		
1,200.0	1,194.9	1,217.2	1,215.2	2.7	2.3	-172.69	38.4	-119.1	211.9	207.6	4.32	49.011		
1,300.0	1,293.3	1,320.7	1,318.0	3.0	2.5	-171.97	41.1	-107.9	220.1	215.4	4.71	46.772		
1,400.0	1,391.2	1,424.3	1,420.9	3.4	2.8	-171.44	43.1	-95.0	228.2	223.1	5.09	44.856		
1,500.0	1,488.9	1,528.2	1,523.6	3.8	3.1	-171.07	44.4	-80.3	236.3	230.8	5.47	43.197		
1,600.0	1,586.1	1,632.2	1,626.3	4.2	3.4	-170.85	45.0	-63.9	244.3	238.5	5.85	41.750		
1,700.0	1,682.9	1,736.3	1,728.9	4.7	3.7	-170.77	44.9	-45.7	252.3	246.1	6.23	40.479		
1,800.0	1,779.3	1,837.7	1,828.4	5.2	4.0	-170.80	44.2	-26.6	260.5	253.9	6.61	39.411		
1,900.0	1,875.2	1,937.2	1,926.2	5.8	4.4	-170.89	43.5	-7.8	270.3	263.4	6.99	38.693		
1,960.5	1,933.0	1,997.4	1,985.2	6.1	4.6	-170.96	43.1	3.6	277.1	269.9	7.21	38.414		
2,000.0	1,970.6	2,036.6	2,023.7	6.3	4.7	-171.02	42.8	11.0	281.7	274.4	7.36	38.272		
2,100.0	2,065.9	2,135.9	2,121.2	6.9	5.0	-171.17	42.1	29.8	293.5	285.7	7.74	37.938		
2,200.0	2,161.2	2,235.2	2,218.7	7.4	5.4	-171.30	41.4	48.6	305.2	297.1	8.11	37.639		
2,300.0	2,256.5	2,334.5	2,316.3	8.0	5.7	-171.43	40.7	67.4	316.9	308.4	8.48	37.368		
2,400.0	2,351.8	2,433.8	2,413.8	8.5	6.1	-171.54	40.0	86.1	328.6	319.8	8.85	37.123		
2,500.0	2,447.2	2,533.1	2,511.3	9.1	6.4	-171.65	39.3	104.9	340.3	331.1	9.22	36.899		
2,600.0	2,542.5	2,632.4	2,608.8	9.7	6.8	-171.75	38.6	123.7	352.1	342.5	9.59	36.695		
2,700.0	2,637.8	2,731.7	2,706.3	10.3	7.2	-171.84	37.9	142.5	363.8	353.8	9.96	36.507		
2,800.0	2,733.1	2,831.0	2,803.8	10.8	7.5	-171.93	37.2	161.3	375.5	365.2	10.33	36.335		
2,900.0	2,828.4	2,930.3	2,901.3	11.4	7.9	-172.01	36.5	180.1	387.2	376.5	10.70	36.176		
3,000.0	2,923.7	3,029.6	2,998.8	12.0	8.3	-172.09	35.8	198.9	399.0	387.9	11.07	36.028		
3,100.0	3,019.1	3,129.0	3,096.4	12.5	8.6	-172.16	35.1	217.6	410.7	399.2	11.44	35.891		
3,200.0	3,114.4	3,228.3	3,193.9	13.1	9.0	-172.23	34.3	236.4	422.4	410.6	11.81	35.764		
3,300.0	3,209.7	3,327.6	3,291.4	13.7	9.4	-172.30	33.6	255.2	434.1	422.0	12.18	35.645		
3,400.0	3,305.0	3,426.9	3,388.9	14.3	9.7	-172.36	32.9	274.0	445.9	433.3	12.55	35.533		
3,500.0	3,400.3	3,526.2	3,486.4	14.8	10.1	-172.42	32.2	292.8	457.6	444.7	12.92	35.429		
3,600.0	3,495.6	3,625.5	3,583.9	15.4	10.5	-172.47	31.5	311.6	469.3	456.0	13.28	35.331		
3,700.0	3,591.0	3,724.8	3,681.4	16.0	10.8	-172.53	30.8	330.4	481.1	467.4	13.65	35.239		
3,800.0	3,686.3	3,824.1	3,779.0	16.6	11.2	-172.58	30.1	349.2	492.8	478.8	14.02	35.152		
3,900.0	3,781.6	3,923.4	3,876.5	17.1	11.6	-172.62	29.4	367.9	504.5	490.1	14.39	35.070		
4,000.0	3,876.9	4,022.7	3,974.0	17.7	11.9	-172.67	28.7	386.7	516.2	501.5	14.75	34.993		
4,100.0	3,972.2	4,122.0	4,071.5	18.3	12.3	-172.71	28.0	405.5	528.0	512.9	15.12	34.919		
4,200.0	4,067.5	4,221.4	4,169.0	18.9	12.7	-172.76	27.3	424.3	539.7	524.2	15.49	34.850		
4,300.0	4,162.9	4,320.7	4,266.5	19.4	13.1	-172.80	26.6	443.1	551.4	535.6	15.85	34.784		
4,400.0	4,258.2	4,420.0	4,364.0	20.0	13.4	-172.84	25.9	461.9	563.2	546.9	16.22	34.721		
4,500.0	4,353.5	4,519.3	4,461.5	20.6	13.8	-172.87	25.2	480.7	574.9	558.3	16.59	34.661		
4,600.0	4,448.8	4,618.6	4,559.1	21.2	14.2	-172.91	24.5	499.4	586.6	569.7	16.95	34.604		
4,700.0	4,544.1	4,717.9	4,656.6	21.7	14.6	-172.94	23.8	518.2	598.4	581.0	17.32	34.550		
4,800.0	4,639.4	4,817.2	4,754.1	22.3	14.9	-172.98	23.1	537.0	610.1	592.4	17.68	34.498		
4,900.0	4,734.7	4,916.5	4,851.6	22.9	15.3	-173.01	22.4	555.8	621.8	603.8	18.05	34.448		
5,000.0	4,830.1	5,015.8	4,949.1	23.5	15.7	-173.04	21.7	574.6	633.6	615.1	18.42	34.401		

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 4W-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 4W-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		
5,100.0	4,925.4	5,115.1	5,046.6	24.0	16.0	-173.07	21.0	593.4	645.3	626.5	18.78	34.355		
5,200.0	5,020.7	5,214.4	5,144.1	24.6	16.4	-173.09	20.3	612.2	657.0	637.9	19.15	34.312		
5,300.0	5,116.0	5,313.7	5,241.7	25.2	16.8	-173.12	19.5	630.9	668.8	649.2	19.51	34.270		
5,400.0	5,211.3	5,413.1	5,339.2	25.8	17.2	-173.15	18.8	649.7	680.5	660.6	19.88	34.230		
5,500.0	5,306.6	5,512.4	5,436.7	26.3	17.5	-173.17	18.1	668.5	692.2	672.0	20.25	34.191		
5,600.0	5,402.0	5,611.7	5,534.2	26.9	17.9	-173.20	17.4	687.3	704.0	683.3	20.61	34.154		
5,700.0	5,497.3	5,711.0	5,631.7	27.5	18.3	-173.22	16.7	706.1	715.7	694.7	20.98	34.118		
5,800.0	5,592.6	5,810.3	5,729.2	28.1	18.7	-173.25	16.0	724.9	727.4	706.1	21.34	34.084		
5,900.0	5,687.9	5,909.6	5,826.7	28.7	19.0	-173.27	15.3	743.7	739.2	717.5	21.71	34.050		
6,000.0	5,783.2	6,008.9	5,924.2	29.2	19.4	-173.29	14.6	762.4	750.9	728.8	22.07	34.018		
6,100.0	5,878.5	6,108.2	6,021.8	29.8	19.8	-173.31	13.9	781.2	762.6	740.2	22.44	33.987		
6,200.0	5,973.9	6,207.5	6,119.3	30.4	20.2	-173.33	13.2	800.0	774.4	751.6	22.80	33.958		
6,300.0	6,069.2	6,306.8	6,216.8	31.0	20.5	-173.35	12.5	818.8	786.1	762.9	23.17	33.929		
6,400.0	6,164.5	6,406.1	6,314.3	31.5	20.9	-173.37	11.8	837.6	797.8	774.3	23.53	33.901		
6,500.0	6,259.8	6,505.5	6,411.8	32.1	21.3	-173.39	11.1	856.4	809.6	785.7	23.90	33.874		
6,600.0	6,355.1	6,604.8	6,509.3	32.7	21.7	-173.41	10.4	875.2	821.3	797.0	24.26	33.848		
6,700.0	6,450.4	6,704.1	6,606.8	33.3	22.0	-173.42	9.7	893.9	833.0	808.4	24.63	33.822		
6,800.0	6,545.8	6,803.4	6,704.3	33.9	22.4	-173.44	9.0	912.7	844.8	819.8	24.99	33.798		
6,900.0	6,641.1	6,902.7	6,801.9	34.4	22.8	-173.46	8.3	931.5	856.5	831.1	25.36	33.774		
6,981.7	6,719.0	6,983.9	6,881.6	34.9	23.1	-173.47	7.7	946.9	866.1	840.4	25.66	33.755		
7,000.0	6,736.4	7,002.0	6,899.4	35.0	23.2	-168.72	7.6	950.3	868.2	842.5	25.72	33.751		
7,050.0	6,784.1	7,051.6	6,948.1	35.3	23.3	-155.92	7.2	959.7	873.3	847.5	25.88	33.750		
7,100.0	6,831.6	7,101.0	6,996.6	35.6	23.5	-144.34	6.9	969.0	877.7	851.7	25.99	33.772		
7,150.0	6,878.6	7,159.1	7,053.6	35.8	23.8	-134.92	5.3	980.0	881.1	855.1	26.04	33.831		
7,200.0	6,925.1	7,218.5	7,111.6	36.1	24.0	-128.00	-0.9	991.2	883.3	857.3	25.99	33.985		
7,250.0	6,970.6	7,272.1	7,163.4	36.3	24.2	-123.11	-10.8	1,001.2	884.6	858.7	25.87	34.197		
7,300.0	7,015.1	7,319.1	7,208.0	36.5	24.3	-119.72	-22.6	1,009.7	885.7	860.0	25.77	34.367		
7,350.0	7,058.2	7,359.0	7,245.2	36.8	24.5	-117.33	-34.9	1,016.9	887.3	861.5	25.77	34.427		
7,400.0	7,099.8	7,392.1	7,275.6	37.0	24.6	-115.52	-46.8	1,022.8	889.8	863.9	25.91	34.343		
7,450.0	7,139.7	7,419.0	7,299.8	37.2	24.7	-114.01	-57.4	1,027.4	893.8	867.6	26.20	34.119		
7,500.0	7,177.7	7,440.1	7,318.5	37.4	24.8	-112.59	-66.5	1,031.0	899.6	873.0	26.62	33.790		
7,550.0	7,213.6	7,456.2	7,332.6	37.6	24.9	-111.13	-73.7	1,033.8	907.5	880.4	27.17	33.400		
7,600.0	7,247.2	7,467.8	7,342.8	37.8	24.9	-109.55	-79.2	1,035.7	917.6	889.8	27.81	32.993		
7,650.0	7,278.3	7,475.7	7,349.5	38.0	24.9	-107.80	-83.0	1,037.0	929.9	901.4	28.52	32.608		
7,700.0	7,306.9	7,480.3	7,353.5	38.2	25.0	-105.86	-85.2	1,037.8	944.5	915.2	29.27	32.271		
7,750.0	7,332.7	7,482.0	7,354.9	38.4	25.0	-103.73	-86.0	1,038.1	961.1	931.0	30.04	31.995		
7,800.0	7,355.7	7,481.3	7,354.3	38.6	25.0	-101.40	-85.7	1,037.9	979.6	948.8	30.82	31.787		
7,850.0	7,375.7	7,478.4	7,351.8	38.8	25.0	-98.90	-84.3	1,037.5	999.8	968.2	31.59	31.647 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	-89.73	0.7	-140.2	140.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.73	0.7	-140.2	140.2	139.9	0.30	472.437		
200.0	200.0	200.0	200.0	0.3	0.3	-89.73	0.7	-140.2	140.2	139.5	0.65	217.066	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	174.84	0.7	-140.2	141.0	140.0	0.99	141.776		
400.0	400.0	399.9	399.9	0.7	0.7	175.06	1.0	-140.2	143.7	142.3	1.34	106.889		
500.0	499.9	499.7	499.7	0.9	0.8	176.22	3.6	-140.2	148.1	146.4	1.70	87.279		
600.0	599.7	599.2	599.0	1.1	1.0	178.29	8.8	-140.2	154.4	152.3	2.06	75.001		
700.0	699.4	698.1	697.7	1.3	1.2	-178.90	16.5	-140.2	163.0	160.5	2.44	66.852		
800.0	798.9	801.9	801.0	1.5	1.5	-175.85	25.8	-139.1	172.7	169.9	2.83	60.969		
900.0	898.3	907.5	906.2	1.8	1.7	-173.48	33.5	-134.6	181.2	178.0	3.23	56.111		
1,000.0	997.4	1,013.7	1,012.0	2.0	1.9	-171.72	39.3	-126.7	188.1	184.5	3.62	51.913		
1,100.0	1,096.3	1,120.4	1,117.9	2.3	2.1	-170.46	43.2	-115.3	193.3	189.3	4.02	48.147		
1,200.0	1,194.9	1,227.3	1,223.8	2.7	2.4	-169.64	45.1	-100.4	196.7	192.3	4.40	44.682		
1,300.0	1,293.3	1,334.5	1,329.4	3.0	2.7	-169.21	45.1	-82.1	198.1	193.4	4.78	41.445		
1,400.0	1,391.2	1,439.7	1,432.4	3.4	3.0	-169.14	43.3	-60.8	197.8	192.7	5.15	38.391		
1,422.3	1,413.1	1,462.0	1,454.2	3.5	3.1	-169.15	42.8	-56.1	197.8	192.5	5.24	37.770		
1,500.0	1,488.9	1,539.7	1,530.1	3.8	3.4	-169.23	41.0	-39.8	198.3	192.8	5.53	35.881		
1,600.0	1,586.1	1,639.6	1,627.8	4.2	3.7	-169.41	38.8	-18.8	200.5	194.6	5.90	33.986		
1,700.0	1,682.9	1,739.5	1,725.5	4.7	4.1	-169.67	36.6	2.2	204.4	198.1	6.27	32.603		
1,800.0	1,779.3	1,839.4	1,823.1	5.2	4.5	-170.00	34.4	23.2	210.0	203.4	6.64	31.649		
1,900.0	1,875.2	1,939.1	1,920.5	5.8	4.8	-170.39	32.1	44.1	217.4	210.4	7.00	31.059		
1,960.5	1,933.0	1,999.4	1,979.5	6.1	5.1	-170.64	30.8	56.8	222.7	215.5	7.22	30.855		
2,000.0	1,970.6	2,038.7	2,017.9	6.3	5.2	-170.82	29.9	65.0	226.3	219.0	7.36	30.762		
2,100.0	2,065.9	2,138.2	2,115.2	6.9	5.6	-171.24	27.7	86.0	235.6	227.9	7.71	30.545		
2,200.0	2,161.2	2,237.8	2,212.5	7.4	6.0	-171.62	25.5	106.9	244.9	236.8	8.07	30.357		
2,300.0	2,256.5	2,337.3	2,309.8	8.0	6.4	-171.98	23.2	127.8	254.2	245.8	8.42	30.191		
2,400.0	2,351.8	2,436.9	2,407.1	8.5	6.8	-172.31	21.0	148.7	263.5	254.7	8.77	30.044		
2,500.0	2,447.2	2,536.5	2,504.4	9.1	7.2	-172.62	18.8	169.6	272.8	263.7	9.12	29.913		
2,600.0	2,542.5	2,636.0	2,601.7	9.7	7.6	-172.91	16.6	190.6	282.1	272.7	9.47	29.795		
2,700.0	2,637.8	2,735.6	2,699.0	10.3	8.0	-173.19	14.4	211.5	291.4	281.6	9.82	29.689		
2,800.0	2,733.1	2,835.1	2,796.3	10.8	8.4	-173.44	12.1	232.4	300.8	290.6	10.16	29.593		
2,900.0	2,828.4	2,934.7	2,893.6	11.4	8.8	-173.68	9.9	253.3	310.1	299.6	10.51	29.506		
3,000.0	2,923.7	3,034.2	2,990.9	12.0	9.2	-173.90	7.7	274.3	319.5	308.6	10.86	29.425		
3,100.0	3,019.1	3,133.8	3,088.2	12.5	9.6	-174.12	5.5	295.2	328.8	317.6	11.20	29.353		
3,200.0	3,114.4	3,233.3	3,185.6	13.1	10.0	-174.32	3.3	316.1	338.2	326.6	11.55	29.278		
3,300.0	3,209.7	3,332.9	3,282.9	13.7	10.4	-174.51	1.0	337.0	347.5	335.6	11.89	29.217		
3,400.0	3,305.0	3,432.4	3,380.2	14.3	10.8	-174.69	-1.2	357.9	356.9	344.6	12.24	29.158		
3,500.0	3,400.3	3,532.0	3,477.5	14.8	11.2	-174.86	-3.4	378.9	366.2	353.7	12.58	29.103		
3,600.0	3,495.6	3,631.6	3,574.8	15.4	11.7	-175.02	-5.6	399.8	375.6	362.7	12.93	29.051		
3,700.0	3,591.0	3,731.1	3,672.1	16.0	12.1	-175.17	-7.9	420.7	385.0	371.7	13.27	29.002		
3,800.0	3,686.3	3,830.7	3,769.4	16.6	12.5	-175.32	-10.1	441.6	394.4	380.7	13.62	28.956		
3,900.0	3,781.6	3,930.2	3,866.7	17.1	12.9	-175.46	-12.3	462.5	403.7	389.8	13.96	28.912		
4,000.0	3,876.9	4,029.8	3,964.0	17.7	13.3	-175.60	-14.5	483.5	413.1	398.8	14.31	28.870		
4,100.0	3,972.2	4,129.3	4,061.3	18.3	13.7	-175.72	-16.7	504.4	422.5	407.8	14.65	28.831		
4,200.0	4,067.5	4,228.9	4,158.6	18.9	14.1	-175.85	-19.0	525.3	431.9	416.9	15.00	28.793		
4,300.0	4,162.9	4,328.4	4,255.9	19.4	14.5	-175.96	-21.2	546.2	441.2	425.9	15.34	28.758		
4,400.0	4,258.2	4,428.0	4,353.2	20.0	14.9	-176.08	-23.4	567.1	450.6	434.9	15.69	28.723		
4,500.0	4,353.5	4,527.6	4,450.5	20.6	15.3	-176.18	-25.6	588.1	460.0	444.0	16.03	28.691		
4,600.0	4,448.8	4,627.1	4,547.8	21.2	15.7	-176.29	-27.8	609.0	469.4	453.0	16.38	28.659		
4,700.0	4,544.1	4,726.7	4,645.2	21.7	16.2	-176.39	-30.1	629.9	478.8	462.1	16.72	28.629		
4,800.0	4,639.4	4,826.2	4,742.5	22.3	16.6	-176.48	-32.3	650.8	488.2	471.1	17.07	28.600		
4,900.0	4,734.7	4,925.8	4,839.8	22.9	17.0	-176.57	-34.5	671.7	497.6	480.2	17.41	28.572		

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 4W-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 4W-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		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	4,830.1	5,025.3	4,937.1	23.5	17.4	-176.66	-36.7	692.7	507.0	489.2	17.76	28.545		
5,100.0	4,925.4	5,124.9	5,034.4	24.0	17.8	-176.75	-38.9	713.6	516.4	498.3	18.11	28.519		
5,200.0	5,020.7	5,224.4	5,131.7	24.6	18.2	-176.83	-41.2	734.5	525.8	507.3	18.45	28.494		
5,300.0	5,116.0	5,324.0	5,229.0	25.2	18.6	-176.91	-43.4	755.4	535.2	516.4	18.80	28.470		
5,400.0	5,211.3	5,423.5	5,326.3	25.8	19.0	-176.98	-45.6	776.3	544.5	525.4	19.14	28.447		
5,500.0	5,306.6	5,523.1	5,423.6	26.3	19.4	-177.06	-47.8	797.3	553.9	534.5	19.49	28.424		
5,600.0	5,402.0	5,622.7	5,520.9	26.9	19.9	-177.13	-50.0	818.2	563.3	543.5	19.83	28.402		
5,700.0	5,497.3	5,722.2	5,618.2	27.5	20.3	-177.20	-52.3	839.1	572.7	552.6	20.18	28.381		
5,800.0	5,592.6	5,821.8	5,715.5	28.1	20.7	-177.27	-54.5	860.0	582.1	561.6	20.53	28.360		
5,900.0	5,687.9	5,921.3	5,812.8	28.7	21.1	-177.33	-56.7	880.9	591.5	570.7	20.87	28.340		
6,000.0	5,783.2	6,020.9	5,910.1	29.2	21.5	-177.39	-58.9	901.9	600.9	579.7	21.22	28.320		
6,100.0	5,878.5	6,120.4	6,007.4	29.8	21.9	-177.45	-61.2	922.8	610.4	588.8	21.57	28.301		
6,200.0	5,973.9	6,220.0	6,104.8	30.4	22.3	-177.51	-63.4	943.7	619.8	597.8	21.91	28.283		
6,300.0	6,069.2	6,319.5	6,202.1	31.0	22.7	-177.57	-65.6	964.6	629.2	606.9	22.26	28.265		
6,400.0	6,164.5	6,419.1	6,299.4	31.5	23.2	-177.63	-67.8	985.5	638.6	616.0	22.61	28.247		
6,500.0	6,259.8	6,518.6	6,396.7	32.1	23.6	-177.68	-70.0	1,006.5	648.0	625.0	22.95	28.230		
6,600.0	6,355.1	6,618.2	6,494.0	32.7	24.0	-177.73	-72.3	1,027.4	657.4	634.1	23.30	28.214		
6,700.0	6,450.4	6,717.8	6,591.3	33.3	24.4	-177.78	-74.5	1,048.3	666.8	643.1	23.65	28.197		
6,800.0	6,545.8	6,817.3	6,688.6	33.9	24.8	-177.83	-76.7	1,069.2	676.2	652.2	23.99	28.182		
6,900.0	6,641.1	6,916.9	6,785.9	34.4	25.2	-177.88	-78.9	1,090.1	685.6	661.3	24.34	28.166		
6,981.7	6,719.0	6,998.2	6,865.4	34.9	25.6	-177.92	-80.7	1,107.2	693.3	668.7	24.63	28.154		
7,000.0	6,736.4	7,016.4	6,883.2	35.0	25.6	-173.21	-81.1	1,111.1	695.0	670.3	24.69	28.151		
7,050.0	6,784.1	7,066.1	6,931.8	35.3	25.8	-160.54	-82.3	1,121.5	699.2	674.3	24.84	28.142		
7,100.0	6,831.6	7,115.5	6,980.1	35.6	26.0	-149.13	-83.4	1,131.9	702.9	677.9	24.98	28.133		
7,150.0	6,878.6	7,164.4	7,027.8	35.8	26.2	-139.71	-84.4	1,142.2	706.1	681.0	25.12	28.115		
7,200.0	6,925.1	7,217.0	7,079.1	36.1	26.5	-132.66	-87.5	1,153.2	708.9	683.6	25.26	28.067		
7,250.0	6,970.6	7,265.5	7,126.1	36.3	26.7	-127.68	-93.7	1,163.3	711.4	686.0	25.45	27.952		
7,300.0	7,015.1	7,308.9	7,167.8	36.5	26.9	-124.24	-102.1	1,172.4	714.3	688.5	25.78	27.707		
7,350.0	7,058.2	7,346.9	7,203.7	36.8	27.0	-121.82	-111.4	1,180.1	718.0	691.7	26.31	27.296		
7,400.0	7,099.8	7,379.2	7,233.9	37.0	27.2	-120.01	-120.9	1,186.7	723.3	696.3	27.06	26.726		
7,450.0	7,139.7	7,406.1	7,258.8	37.2	27.3	-118.49	-129.9	1,192.1	730.6	702.6	28.04	26.056		
7,500.0	7,177.7	7,428.0	7,278.7	37.4	27.4	-117.02	-137.9	1,196.4	740.3	711.1	29.20	25.352		
7,550.0	7,213.6	7,450.0	7,298.4	37.6	27.5	-115.80	-146.6	1,200.7	752.7	722.1	30.59	24.601		
7,600.0	7,247.2	7,458.6	7,306.0	37.8	27.5	-113.70	-150.1	1,202.4	767.7	735.8	31.84	24.110		
7,650.0	7,278.3	7,468.1	7,314.5	38.0	27.6	-111.68	-154.2	1,204.2	785.4	752.2	33.21	23.648		
7,700.0	7,306.9	7,474.5	7,320.1	38.2	27.6	-109.37	-157.0	1,205.4	805.7	771.2	34.56	23.313		
7,750.0	7,332.7	7,478.0	7,323.2	38.4	27.6	-106.76	-158.5	1,206.1	828.5	792.6	35.86	23.104		
7,800.0	7,355.7	7,479.1	7,324.1	38.6	27.6	-103.86	-159.0	1,206.3	853.3	816.2	37.09	23.008 SF		
7,850.0	7,375.7	7,477.9	7,323.1	38.8	27.6	-100.69	-158.5	1,206.1	880.0	841.8	38.24	23.013		
7,900.0	7,392.6	7,474.9	7,320.4	39.0	27.6	-97.29	-157.2	1,205.5	908.3	869.0	39.31	23.104		
7,950.0	7,406.4	7,470.2	7,316.3	39.2	27.6	-93.72	-155.1	1,204.6	937.8	897.5	40.31	23.264		
8,000.0	7,416.9	7,464.0	7,310.9	39.4	27.6	-90.05	-152.4	1,203.4	968.3	927.1	41.24	23.480		
8,050.0	7,424.2	7,450.0	7,298.4	39.6	27.5	-85.91	-146.6	1,200.7	999.5	957.6	41.90	23.856		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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							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	-89.73	0.6	-130.1	130.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.73	0.6	-130.1	130.1	129.8	0.30	438.489		
200.0	200.0	200.0	200.0	0.3	0.3	-89.73	0.6	-130.1	130.1	129.5	0.65	201.468	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	174.84	0.6	-130.1	131.0	130.0	0.99	131.651		
400.0	400.0	399.9	399.9	0.7	0.7	175.69	2.4	-130.1	133.6	132.3	1.35	99.222		
500.0	499.9	499.4	499.3	0.9	0.9	177.98	7.6	-130.1	138.2	136.5	1.71	80.738		
600.0	599.7	598.4	597.8	1.1	1.1	-178.54	16.1	-130.1	145.1	143.0	2.10	69.055		
700.0	699.4	702.9	701.8	1.3	1.3	-174.69	26.5	-128.4	152.8	150.3	2.51	60.862		
800.0	798.9	808.0	806.4	1.5	1.6	-171.43	35.6	-123.0	159.1	156.2	2.93	54.404		
900.0	898.3	913.6	911.3	1.8	1.8	-168.62	43.4	-113.9	164.0	160.6	3.35	48.987		
1,000.0	997.4	1,019.4	1,016.1	2.0	2.1	-166.13	49.9	-101.2	167.2	163.4	3.78	44.217		
1,100.0	1,096.3	1,125.4	1,120.7	2.3	2.4	-163.88	55.1	-84.8	168.6	164.4	4.23	39.869		
1,200.0	1,194.9	1,231.5	1,224.8	2.7	2.7	-161.79	59.0	-64.7	168.3	163.6	4.70	35.810		
1,300.0	1,293.3	1,337.5	1,328.1	3.0	3.1	-159.79	61.5	-41.0	166.1	160.9	5.20	31.962		
1,400.0	1,391.2	1,441.6	1,428.7	3.4	3.6	-157.86	62.7	-14.4	162.2	156.5	5.73	28.307		
1,500.0	1,488.9	1,541.5	1,525.0	3.8	4.0	-156.11	63.6	12.0	159.1	152.8	6.30	25.248		
1,600.0	1,586.1	1,641.4	1,621.4	4.2	4.5	-154.57	64.4	38.5	157.7	150.8	6.90	22.845		
1,630.5	1,615.7	1,671.9	1,650.8	4.4	4.6	-154.14	64.6	46.5	157.7	150.6	7.10	22.221		
1,700.0	1,682.9	1,741.3	1,717.7	4.7	4.9	-153.27	65.2	64.9	158.1	150.5	7.53	20.980		
1,800.0	1,779.3	1,841.2	1,814.1	5.2	5.4	-152.27	66.0	91.3	160.0	151.8	8.18	19.560		
1,900.0	1,875.2	1,941.1	1,910.5	5.8	5.9	-151.58	66.8	117.8	163.5	154.7	8.84	18.508		
1,960.5	1,933.0	2,001.6	1,968.8	6.1	6.2	-151.32	67.3	133.8	166.4	157.2	9.23	18.028		
2,000.0	1,970.6	2,041.0	2,006.8	6.3	6.4	-151.19	67.7	144.2	168.5	159.0	9.49	17.758		
2,100.0	2,065.9	2,140.9	2,103.1	6.9	6.8	-150.88	68.5	170.6	173.7	163.6	10.14	17.124		
2,200.0	2,161.2	2,240.7	2,199.4	7.4	7.3	-150.59	69.3	197.0	179.0	168.1	10.81	16.555		
2,300.0	2,256.5	2,340.6	2,295.7	8.0	7.8	-150.32	70.1	223.5	184.2	172.7	11.48	16.043		
2,400.0	2,351.8	2,440.5	2,391.9	8.5	8.3	-150.06	70.9	249.9	189.5	177.3	12.16	15.579		
2,500.0	2,447.2	2,540.3	2,488.2	9.1	8.8	-149.82	71.8	276.3	194.7	181.9	12.85	15.157		
2,600.0	2,542.5	2,640.2	2,584.5	9.7	9.3	-149.59	72.6	302.7	200.0	186.4	13.54	14.772		
2,700.0	2,637.8	2,740.0	2,680.8	10.3	9.8	-149.37	73.4	329.1	205.2	191.0	14.23	14.420		
2,800.0	2,733.1	2,839.9	2,777.1	10.8	10.3	-149.16	74.2	355.6	210.5	195.6	14.93	14.097		
2,900.0	2,828.4	2,939.7	2,873.4	11.4	10.8	-148.97	75.0	382.0	215.8	200.1	15.64	13.799		
3,000.0	2,923.7	3,039.6	2,969.7	12.0	11.3	-148.78	75.9	408.4	221.0	204.7	16.34	13.524		
3,100.0	3,019.1	3,139.5	3,066.0	12.5	11.8	-148.60	76.7	434.8	226.3	209.2	17.05	13.269		
3,200.0	3,114.4	3,239.3	3,162.3	13.1	12.3	-148.43	77.5	461.3	231.6	213.8	17.77	13.033		
3,300.0	3,209.7	3,339.2	3,258.6	13.7	12.8	-148.26	78.3	487.7	236.8	218.4	18.48	12.813		
3,400.0	3,305.0	3,439.0	3,354.9	14.3	13.3	-148.11	79.1	514.1	242.1	222.9	19.20	12.607		
3,500.0	3,400.3	3,538.9	3,451.2	14.8	13.8	-147.96	80.0	540.5	247.4	227.5	19.93	12.415		
3,600.0	3,495.6	3,638.8	3,547.5	15.4	14.3	-147.81	80.8	566.9	252.7	232.0	20.65	12.235		
3,700.0	3,591.0	3,738.6	3,643.8	16.0	14.8	-147.68	81.6	593.4	257.9	236.6	21.38	12.067		
3,800.0	3,686.3	3,838.5	3,740.1	16.6	15.3	-147.54	82.4	619.8	263.2	241.1	22.11	11.908		
3,900.0	3,781.6	3,938.3	3,836.4	17.1	15.8	-147.42	83.3	646.2	268.5	245.7	22.84	11.758		
4,000.0	3,876.9	4,038.2	3,932.7	17.7	16.3	-147.29	84.1	672.6	273.8	250.2	23.57	11.617		
4,100.0	3,972.2	4,138.0	4,029.0	18.3	16.8	-147.18	84.9	699.0	279.1	254.8	24.30	11.484		
4,200.0	4,067.5	4,237.9	4,125.3	18.9	17.4	-147.06	85.7	725.5	284.4	259.3	25.04	11.358		
4,300.0	4,162.9	4,337.8	4,221.6	19.4	17.9	-146.95	86.5	751.9	289.7	263.9	25.77	11.238		
4,400.0	4,258.2	4,437.6	4,317.9	20.0	18.4	-146.85	87.4	778.3	294.9	268.4	26.51	11.125		
4,500.0	4,353.5	4,537.5	4,414.2	20.6	18.9	-146.75	88.2	804.7	300.2	273.0	27.25	11.017		
4,600.0	4,448.8	4,637.3	4,510.5	21.2	19.4	-146.65	89.0	831.1	305.5	277.5	27.99	10.915		
4,700.0	4,544.1	4,737.2	4,606.8	21.7	19.9	-146.56	89.8	857.6	310.8	282.1	28.73	10.817		
4,800.0	4,639.4	4,837.1	4,703.1	22.3	20.4	-146.46	90.6	884.0	316.1	286.6	29.48	10.724		
4,900.0	4,734.7	4,936.9	4,799.4	22.9	20.9	-146.38	91.5	910.4	321.4	291.2	30.22	10.635		

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 4W-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 4W-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)				
5,000.0	4,830.1	5,036.8	4,895.7	23.5	21.4	-146.29	92.3	936.8	326.7	295.7	30.97	10.550		
5,100.0	4,925.4	5,136.6	4,992.0	24.0	21.9	-146.21	93.1	963.2	332.0	300.3	31.71	10.469		
5,200.0	5,020.7	5,236.5	5,088.3	24.6	22.4	-146.13	93.9	989.7	337.3	304.8	32.46	10.391		
5,300.0	5,116.0	5,336.4	5,184.6	25.2	22.9	-146.05	94.7	1,016.1	342.6	309.4	33.21	10.317		
5,400.0	5,211.3	5,436.2	5,280.8	25.8	23.4	-145.98	95.6	1,042.5	347.9	313.9	33.96	10.245		
5,500.0	5,306.6	5,536.1	5,377.1	26.3	23.9	-145.90	96.4	1,068.9	353.2	318.5	34.70	10.177		
5,600.0	5,402.0	5,635.9	5,473.4	26.9	24.4	-145.83	97.2	1,095.3	358.5	323.0	35.45	10.111		
5,700.0	5,497.3	5,735.8	5,569.7	27.5	24.9	-145.76	98.0	1,121.8	363.8	327.6	36.21	10.048		
5,800.0	5,592.6	5,835.6	5,666.0	28.1	25.5	-145.70	98.8	1,148.2	369.1	332.1	36.96	9.987		
5,900.0	5,687.9	5,935.5	5,762.3	28.7	26.0	-145.63	99.7	1,174.6	374.4	336.7	37.71	9.928		
6,000.0	5,783.2	6,035.4	5,858.6	29.2	26.5	-145.57	100.5	1,201.0	379.7	341.2	38.46	9.872		
6,100.0	5,878.5	6,135.2	5,954.9	29.8	27.0	-145.51	101.3	1,227.4	385.0	345.8	39.21	9.817		
6,200.0	5,973.9	6,235.1	6,051.2	30.4	27.5	-145.45	102.1	1,253.9	390.3	350.3	39.97	9.765		
6,300.0	6,069.2	6,334.9	6,147.5	31.0	28.0	-145.39	102.9	1,280.3	395.6	354.9	40.72	9.714		
6,400.0	6,164.5	6,434.8	6,243.8	31.5	28.5	-145.33	103.8	1,306.7	400.9	359.4	41.48	9.665		
6,500.0	6,259.8	6,534.7	6,340.1	32.1	29.0	-145.28	104.6	1,333.1	406.2	363.9	42.23	9.618		
6,600.0	6,355.1	6,634.5	6,436.4	32.7	29.5	-145.22	105.4	1,359.5	411.5	368.5	42.99	9.572		
6,700.0	6,450.4	6,734.4	6,532.7	33.3	30.0	-145.17	106.2	1,386.0	416.8	373.0	43.74	9.528		
6,800.0	6,545.8	6,834.2	6,629.0	33.9	30.5	-145.12	107.0	1,412.4	422.1	377.6	44.50	9.485		
6,900.0	6,641.1	6,934.1	6,725.3	34.4	31.0	-145.07	107.9	1,438.8	427.4	382.1	45.26	9.444 SF		
6,981.7	6,719.0	7,061.7	6,847.9	34.9	31.7	-146.04	98.9	1,472.4	427.7	382.8	44.99	9.508		
7,000.0	6,736.4	7,090.7	6,875.4	35.0	31.8	-142.10	93.7	1,480.0	426.4	381.8	44.58	9.566		
7,050.0	6,784.1	7,166.4	6,946.1	35.3	32.1	-132.49	74.8	1,499.4	419.1	376.3	42.76	9.802		
7,100.0	6,831.6	7,234.6	7,007.8	35.6	32.5	-125.35	51.2	1,516.3	407.5	367.3	40.11	10.159		
7,150.0	6,878.6	7,293.5	7,059.1	35.8	32.7	-121.00	26.0	1,530.4	393.0	356.1	36.93	10.641		
7,200.0	6,925.1	7,342.7	7,100.3	36.1	32.9	-119.03	1.7	1,541.7	377.5	343.9	33.59	11.239		
7,250.0	6,970.6	7,382.5	7,132.4	36.3	33.1	-118.59	-20.1	1,550.5	362.8	332.5	30.32	11.967		
7,300.0	7,015.1	7,413.9	7,156.9	36.5	33.2	-118.79	-38.6	1,557.2	350.8	323.1	27.67	12.678		
7,350.0	7,058.2	7,438.0	7,175.2	36.8	33.4	-118.95	-53.5	1,562.2	343.0	316.9	26.17	13.107		
7,391.7	7,093.0	7,453.3	7,186.5	36.9	33.4	-118.75	-63.3	1,565.3	340.9	314.8	26.10	13.062		
7,400.0	7,099.8	7,455.9	7,188.4	37.0	33.4	-118.66	-65.0	1,565.8	341.0	314.8	26.22	13.007		
7,450.0	7,139.7	7,468.4	7,197.4	37.2	33.5	-117.68	-73.2	1,568.3	345.4	317.6	27.72	12.458		
7,500.0	7,177.7	7,476.4	7,203.2	37.4	33.5	-115.94	-78.6	1,569.9	356.4	326.2	30.16	11.815		
7,550.0	7,213.6	7,480.7	7,206.2	37.6	33.5	-113.39	-81.4	1,570.7	373.7	340.7	32.94	11.344		
7,600.0	7,247.2	7,481.7	7,207.0	37.8	33.5	-110.05	-82.2	1,571.0	396.5	360.8	35.63	11.126		
7,650.0	7,278.3	7,480.1	7,205.8	38.0	33.5	-105.95	-81.1	1,570.6	423.8	385.7	38.05	11.138		
7,700.0	7,306.9	7,476.2	7,203.1	38.2	33.5	-101.17	-78.4	1,569.9	454.7	414.5	40.14	11.327		
7,750.0	7,332.7	7,470.3	7,198.9	38.4	33.5	-95.85	-74.5	1,568.7	488.2	446.3	41.93	11.643		
7,800.0	7,355.7	7,462.8	7,193.4	38.6	33.5	-90.14	-69.5	1,567.2	523.7	480.2	43.48	12.045		
7,850.0	7,375.7	7,450.0	7,184.1	38.8	33.4	-83.77	-61.1	1,564.7	560.5	516.0	44.52	12.589		
7,900.0	7,392.6	7,450.0	7,184.1	39.0	33.4	-79.26	-61.1	1,564.7	598.0	551.5	46.55	12.848		
7,950.0	7,406.4	7,432.2	7,170.8	39.2	33.3	-72.91	-49.8	1,561.0	635.8	588.7	47.13	13.490		
8,000.0	7,416.9	7,419.9	7,161.5	39.4	33.3	-67.76	-42.2	1,558.5	673.7	625.5	48.14	13.993		
8,050.0	7,424.2	7,400.0	7,146.2	39.6	33.2	-62.58	-30.2	1,554.3	711.2	662.6	48.65	14.619		
8,100.0	7,428.2	7,400.0	7,146.2	39.8	33.2	-59.46	-30.2	1,554.3	748.2	697.8	50.41	14.842		
8,134.9	7,429.0	7,382.8	7,132.7	39.9	33.1	-56.43	-20.3	1,550.6	773.5	723.0	50.56	15.300		
8,200.0	7,429.0	7,364.5	7,118.0	40.2	33.0	-55.36	-10.0	1,546.5	821.3	769.7	51.59	15.919		
8,300.0	7,429.0	7,350.0	7,106.3	40.7	33.0	-54.54	-2.1	1,543.3	897.7	844.2	53.54	16.768		
8,400.0	7,429.0	7,315.7	7,077.9	41.3	32.8	-52.66	15.4	1,535.5	976.8	922.6	54.19	18.025		

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 4W-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 4W-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	-89.73	0.6	-120.0	120.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.73	0.6	-120.0	120.0	119.7	0.30	404.541		
200.0	200.0	200.0	200.0	0.3	0.3	-89.73	0.6	-120.0	120.0	119.4	0.65	185.870 CC		
300.0	300.0	299.9	299.9	0.5	0.5	175.67	2.3	-120.0	120.9	119.9	1.00	121.110		
400.0	400.0	399.6	399.4	0.7	0.7	178.17	7.5	-120.0	123.8	122.4	1.37	90.506		
500.0	499.9	498.6	498.1	0.9	0.9	-177.95	16.1	-120.0	129.0	127.2	1.76	73.114		
600.0	599.7	602.7	601.6	1.1	1.2	-173.61	26.4	-118.3	135.1	132.9	2.18	62.031		
700.0	699.4	707.2	705.6	1.3	1.4	-169.86	35.5	-112.9	139.9	137.3	2.60	53.898		
800.0	798.9	812.0	809.7	1.5	1.7	-166.55	43.4	-103.9	143.3	140.3	3.02	47.411		
900.0	898.3	917.0	913.7	1.8	1.9	-163.53	50.1	-91.3	145.2	141.7	3.46	41.905		
1,000.0	997.4	1,022.1	1,017.4	2.0	2.2	-160.68	55.5	-75.1	145.4	141.5	3.93	37.021		
1,100.0	1,096.3	1,127.1	1,120.5	2.3	2.6	-157.92	59.6	-55.2	143.9	139.5	4.42	32.558		
1,200.0	1,194.9	1,232.0	1,222.6	2.7	3.0	-155.13	62.5	-31.9	140.8	135.8	4.96	28.403		
1,300.0	1,293.3	1,336.6	1,323.7	3.0	3.4	-152.21	64.0	-5.1	135.9	130.4	5.55	24.496		
1,400.0	1,391.2	1,438.2	1,421.2	3.4	3.9	-149.19	64.5	23.8	130.0	123.8	6.22	20.920		
1,500.0	1,488.9	1,537.9	1,516.7	3.8	4.4	-146.34	64.9	52.4	125.6	118.7	6.95	18.084		
1,600.0	1,586.1	1,637.7	1,612.3	4.2	4.9	-143.76	65.3	81.1	123.0	115.3	7.73	15.903		
1,700.0	1,682.9	1,737.6	1,708.0	4.7	5.4	-141.58	65.6	109.8	122.0	113.4	8.56	14.246		
1,716.7	1,699.0	1,754.3	1,723.9	4.8	5.5	-141.26	65.7	114.5	122.0	113.2	8.70	14.011		
1,800.0	1,779.3	1,837.5	1,803.7	5.2	5.9	-139.89	66.0	138.4	122.5	113.0	9.42	13.006 ES		
1,900.0	1,875.2	1,937.5	1,899.4	5.8	6.5	-138.73	66.4	167.1	124.4	114.1	10.28	12.100		
1,960.5	1,933.0	1,998.0	1,957.4	6.1	6.8	-138.31	66.6	184.5	126.2	115.4	10.79	11.687		
2,000.0	1,970.6	2,037.4	1,995.2	6.3	7.0	-138.10	66.8	195.8	127.5	116.4	11.13	11.456		
2,100.0	2,065.9	2,137.4	2,090.9	6.9	7.5	-137.61	67.1	224.5	130.9	118.9	11.99	10.920		
2,200.0	2,161.2	2,237.3	2,186.6	7.4	8.1	-137.14	67.5	253.2	134.3	121.4	12.85	10.447		
2,300.0	2,256.5	2,337.2	2,282.3	8.0	8.6	-136.69	67.9	281.9	137.7	124.0	13.73	10.026		
2,400.0	2,351.8	2,437.2	2,378.1	8.5	9.1	-136.27	68.2	310.6	141.1	126.5	14.62	9.650		
2,500.0	2,447.2	2,537.1	2,473.8	9.1	9.7	-135.87	68.6	339.3	144.5	129.0	15.52	9.313		
2,600.0	2,542.5	2,637.1	2,569.5	9.7	10.2	-135.48	69.0	368.0	148.0	131.5	16.43	9.008		
2,700.0	2,637.8	2,737.0	2,665.3	10.3	10.8	-135.11	69.3	396.7	151.4	134.1	17.34	8.733		
2,800.0	2,733.1	2,836.9	2,761.0	10.8	11.3	-134.76	69.7	425.4	154.8	136.6	18.26	8.482		
2,900.0	2,828.4	2,936.9	2,856.7	11.4	11.8	-134.42	70.1	454.0	158.3	139.1	19.18	8.253		
3,000.0	2,923.7	3,036.8	2,952.4	12.0	12.4	-134.10	70.4	482.7	161.7	141.6	20.11	8.043		
3,100.0	3,019.1	3,136.7	3,048.2	12.5	12.9	-133.79	70.8	511.4	165.2	144.2	21.04	7.850		
3,200.0	3,114.4	3,236.7	3,143.9	13.1	13.5	-133.50	71.2	540.1	168.7	146.7	21.98	7.673		
3,300.0	3,209.7	3,336.6	3,239.6	13.7	14.0	-133.21	71.5	568.8	172.1	149.2	22.93	7.508		
3,400.0	3,305.0	3,436.5	3,335.4	14.3	14.6	-132.94	71.9	597.5	175.6	151.7	23.87	7.356		
3,500.0	3,400.3	3,536.5	3,431.1	14.8	15.1	-132.68	72.3	626.2	179.1	154.3	24.82	7.214		
3,600.0	3,495.6	3,636.4	3,526.8	15.4	15.7	-132.43	72.7	654.9	182.6	156.8	25.78	7.082		
3,700.0	3,591.0	3,736.4	3,622.5	16.0	16.2	-132.18	73.0	683.6	186.0	159.3	26.73	6.959		
3,800.0	3,686.3	3,836.3	3,718.3	16.6	16.7	-131.95	73.4	712.3	189.5	161.8	27.69	6.844		
3,900.0	3,781.6	3,936.2	3,814.0	17.1	17.3	-131.73	73.8	740.9	193.0	164.4	28.66	6.736		
4,000.0	3,876.9	4,036.2	3,909.7	17.7	17.8	-131.51	74.1	769.6	196.5	166.9	29.62	6.634		
4,100.0	3,972.2	4,136.1	4,005.5	18.3	18.4	-131.30	74.5	798.3	200.0	169.4	30.59	6.539		
4,200.0	4,067.5	4,236.0	4,101.2	18.9	18.9	-131.10	74.9	827.0	203.5	171.9	31.56	6.449		
4,300.0	4,162.9	4,336.0	4,196.9	19.4	19.5	-130.90	75.2	855.7	207.0	174.5	32.53	6.364		
4,400.0	4,258.2	4,435.9	4,292.6	20.0	20.0	-130.71	75.6	884.4	210.5	177.0	33.50	6.283		
4,500.0	4,353.5	4,535.8	4,388.4	20.6	20.6	-130.53	76.0	913.1	214.0	179.5	34.48	6.207		
4,600.0	4,448.8	4,635.8	4,484.1	21.2	21.1	-130.35	76.3	941.8	217.5	182.1	35.45	6.135		
4,700.0	4,544.1	4,735.7	4,579.8	21.7	21.7	-130.18	76.7	970.5	221.0	184.6	36.43	6.067		
4,800.0	4,639.4	4,835.7	4,675.6	22.3	22.2	-130.01	77.1	999.2	224.5	187.1	37.41	6.002		
4,900.0	4,734.7	4,935.6	4,771.3	22.9	22.8	-129.85	77.4	1,027.9	228.0	189.6	38.39	5.940		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	4,830.1	5,035.5	4,867.0	23.5	23.3	-129.70	77.8	1,056.5	231.6	192.2	39.37	5.881		
5,100.0	4,925.4	5,135.5	4,962.7	24.0	23.9	-129.54	78.2	1,085.2	235.1	194.7	40.36	5.825		
5,200.0	5,020.7	5,235.4	5,058.5	24.6	24.4	-129.40	78.6	1,113.9	238.6	197.2	41.34	5.771		
5,300.0	5,116.0	5,335.3	5,154.2	25.2	25.0	-129.25	78.9	1,142.6	242.1	199.8	42.33	5.719		
5,400.0	5,211.3	5,435.3	5,249.9	25.8	25.5	-129.12	79.3	1,171.3	245.6	202.3	43.32	5.670		
5,500.0	5,306.6	5,535.2	5,345.7	26.3	26.1	-128.98	79.7	1,200.0	249.1	204.8	44.31	5.623		
5,600.0	5,402.0	5,635.1	5,441.4	26.9	26.6	-128.85	80.0	1,228.7	252.7	207.4	45.29	5.578		
5,700.0	5,497.3	5,735.1	5,537.1	27.5	27.2	-128.72	80.4	1,257.4	256.2	209.9	46.28	5.535		
5,800.0	5,592.6	5,835.0	5,632.8	28.1	27.7	-128.60	80.8	1,286.1	259.7	212.4	47.28	5.494		
5,900.0	5,687.9	5,935.0	5,728.6	28.7	28.2	-128.48	81.1	1,314.8	263.2	215.0	48.27	5.454		
6,000.0	5,783.2	6,034.9	5,824.3	29.2	28.8	-128.36	81.5	1,343.4	266.8	217.5	49.26	5.415		
6,100.0	5,878.5	6,134.8	5,920.0	29.8	29.3	-128.25	81.9	1,372.1	270.3	220.0	50.25	5.379		
6,200.0	5,973.9	6,234.8	6,015.8	30.4	29.9	-128.14	82.2	1,400.8	273.8	222.6	51.25	5.343		
6,300.0	6,069.2	6,334.7	6,111.5	31.0	30.4	-128.03	82.6	1,429.5	277.4	225.1	52.24	5.309		
6,400.0	6,164.5	6,434.6	6,207.2	31.5	31.0	-127.92	83.0	1,458.2	280.9	227.6	53.24	5.276		
6,500.0	6,259.8	6,534.6	6,302.9	32.1	31.5	-127.82	83.3	1,486.9	284.4	230.2	54.24	5.244		
6,600.0	6,355.1	6,634.5	6,398.7	32.7	32.1	-127.72	83.7	1,515.6	288.0	232.7	55.23	5.213		
6,700.0	6,450.4	6,734.4	6,494.4	33.3	32.6	-127.62	84.1	1,544.3	291.5	235.3	56.23	5.184		
6,800.0	6,545.8	6,834.4	6,590.1	33.9	33.2	-127.52	84.5	1,573.0	295.0	237.8	57.23	5.155		
6,900.0	6,641.1	6,934.3	6,685.9	34.4	33.7	-127.43	84.8	1,601.7	298.6	240.3	58.23	5.127		
6,981.7	6,719.0	7,016.0	6,764.1	34.9	34.2	-127.35	85.1	1,625.1	301.4	242.4	59.04	5.105		
7,000.0	6,736.4	7,034.3	6,781.6	35.0	34.3	-122.74	85.2	1,630.4	301.9	242.7	59.22	5.098		
7,050.0	6,784.1	7,084.2	6,829.5	35.3	34.6	-110.41	85.4	1,644.7	301.1	241.5	59.59	5.052		
7,100.0	6,831.6	7,134.0	6,877.1	35.6	34.8	-99.50	85.6	1,659.0	297.2	237.4	59.78	4.972		
7,150.0	6,878.6	7,183.3	6,924.3	35.8	35.1	-90.79	85.7	1,673.1	290.5	230.7	59.77	4.860		
7,200.0	6,925.1	7,231.8	6,970.9	36.1	35.4	-84.50	85.9	1,687.1	281.0	221.5	59.50	4.722		
7,250.0	6,970.6	7,279.5	7,016.5	36.3	35.6	-80.53	86.1	1,700.8	268.9	210.0	58.90	4.565		
7,300.0	7,015.1	7,341.7	7,076.0	36.5	36.0	-80.09	83.9	1,718.6	253.2	195.6	57.53	4.400		
7,350.0	7,058.2	7,397.8	7,129.4	36.8	36.3	-82.90	77.4	1,734.4	233.2	178.5	54.67	4.266		
7,400.0	7,099.8	7,445.6	7,174.4	37.0	36.5	-88.52	68.4	1,747.8	211.0	161.0	50.02	4.218 SF		
7,450.0	7,139.7	7,485.2	7,211.2	37.2	36.7	-96.02	58.5	1,758.6	189.2	146.0	43.22	4.379		
7,500.0	7,177.7	7,517.2	7,240.5	37.4	36.9	-103.88	49.1	1,767.2	171.5	137.0	34.48	4.974		
7,550.0	7,213.6	7,542.3	7,263.2	37.6	37.0	-110.56	40.7	1,773.9	162.1	134.9	27.22	5.953		
7,565.8	7,224.4	7,548.9	7,269.2	37.6	37.0	-112.25	38.3	1,775.6	161.4	134.9	26.56	6.079		
7,600.0	7,247.2	7,561.4	7,280.3	37.8	37.1	-115.12	33.7	1,778.9	164.5	135.5	28.97	5.678		
7,650.0	7,278.3	7,575.4	7,292.7	38.0	37.1	-117.27	28.4	1,782.5	179.8	142.0	37.80	4.756		
7,700.0	7,306.9	7,584.9	7,301.1	38.2	37.2	-117.04	24.5	1,785.0	205.8	159.5	46.28	4.447		
7,750.0	7,332.7	7,590.7	7,306.1	38.4	37.2	-114.51	22.2	1,786.4	239.5	187.2	52.31	4.580		
7,800.0	7,355.7	7,593.2	7,308.3	38.6	37.2	-109.77	21.1	1,787.1	278.3	222.0	56.30	4.943		
7,850.0	7,375.7	7,600.0	7,314.3	38.8	37.3	-105.45	18.3	1,788.8	320.3	260.6	59.67	5.367		
7,900.0	7,392.6	7,590.4	7,305.9	39.0	37.2	-94.51	22.3	1,786.4	363.9	303.1	60.83	5.983		
7,950.0	7,406.4	7,585.8	7,301.8	39.2	37.2	-85.06	24.2	1,785.2	408.7	346.5	62.19	6.571		
8,000.0	7,416.9	7,579.4	7,296.3	39.4	37.2	-75.52	26.8	1,783.5	453.9	390.7	63.26	7.176		
8,050.0	7,424.2	7,571.5	7,289.3	39.6	37.1	-66.74	29.9	1,781.5	499.2	435.1	64.12	7.785		
8,100.0	7,428.2	7,562.3	7,281.1	39.8	37.1	-59.18	33.4	1,779.1	544.2	479.3	64.85	8.391		
8,134.9	7,429.0	7,550.0	7,270.2	39.9	37.0	-54.07	37.9	1,775.9	575.3	510.3	65.00	8.850		
8,200.0	7,429.0	7,550.0	7,270.2	40.2	37.0	-54.07	37.9	1,775.9	633.5	567.0	66.44	9.534		
8,300.0	7,429.0	7,524.0	7,246.8	40.7	36.9	-51.08	46.8	1,769.1	724.2	657.3	66.95	10.818		
8,400.0	7,429.0	7,500.0	7,224.8	41.3	36.8	-48.64	54.3	1,762.6	816.6	749.3	67.32	12.130		
8,500.0	7,429.0	7,500.0	7,224.8	41.9	36.8	-48.64	54.3	1,762.6	909.9	841.6	68.37	13.310		

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 4W-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 4W-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						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	-89.62	0.7	-110.0	110.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.62	0.7	-110.0	110.0	109.7	0.30	370.598		
200.0	200.0	200.0	200.0	0.3	0.3	-89.62	0.7	-110.0	110.0	109.3	0.65	170.275 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.95	0.7	-110.0	110.8	109.8	0.99	111.403		
400.0	400.0	400.0	400.0	0.7	0.7	175.07	0.7	-110.0	113.4	112.1	1.34	84.409		
500.0	499.9	499.9	499.9	0.9	0.8	175.25	0.7	-110.0	117.8	116.1	1.69	69.575		
600.0	599.7	599.7	599.7	1.1	1.0	175.48	0.7	-110.0	123.9	121.8	2.04	60.668		
700.0	699.4	699.4	699.4	1.3	1.2	175.74	0.7	-110.0	131.7	129.3	2.39	55.092		
800.0	798.9	798.0	798.0	1.5	1.4	175.97	0.6	-110.1	141.4	138.7	2.74	51.668		
900.0	898.3	895.2	895.2	1.8	1.5	175.87	-0.4	-111.4	154.0	150.9	3.08	49.993		
1,000.0	997.4	991.8	991.8	2.0	1.7	175.47	-2.4	-114.0	169.7	166.2	3.42	49.548 SF		
1,100.0	1,096.3	1,087.7	1,087.5	2.3	1.9	174.87	-5.3	-117.9	188.3	184.6	3.77	49.985		
1,200.0	1,194.9	1,182.7	1,182.2	2.7	2.1	174.16	-9.1	-123.0	210.0	205.9	4.11	51.072		
1,300.0	1,293.3	1,276.6	1,275.8	3.0	2.3	173.38	-13.9	-129.2	234.7	230.3	4.46	52.647		
1,400.0	1,391.2	1,370.8	1,369.6	3.4	2.5	172.60	-19.5	-136.6	262.3	257.5	4.81	54.528		
1,500.0	1,488.9	1,466.4	1,464.7	3.8	2.7	171.96	-25.3	-144.3	291.7	286.6	5.17	56.430		
1,600.0	1,586.1	1,561.4	1,559.2	4.2	2.9	171.47	-31.1	-152.0	322.9	317.3	5.53	58.371		
1,700.0	1,682.9	1,655.8	1,653.2	4.7	3.1	171.10	-36.8	-159.6	355.6	349.7	5.89	60.341		
1,800.0	1,779.3	1,749.7	1,746.6	5.2	3.3	170.82	-42.5	-167.1	390.0	383.8	6.26	62.334		
1,900.0	1,875.2	1,843.0	1,839.4	5.8	3.5	170.61	-48.2	-174.6	426.1	419.4	6.62	64.345		
1,960.5	1,933.0	1,899.2	1,895.3	6.1	3.7	170.51	-51.6	-179.2	448.7	441.8	6.84	65.572		
2,000.0	1,970.6	1,935.7	1,931.6	6.3	3.7	170.48	-53.9	-182.1	463.6	456.6	6.99	66.357		
2,100.0	2,065.9	2,028.3	2,023.7	6.9	4.0	170.42	-59.5	-189.6	501.4	494.0	7.35	68.202		
2,200.0	2,161.2	2,120.9	2,115.8	7.4	4.2	170.36	-65.1	-197.0	539.2	531.4	7.72	69.864		
2,300.0	2,256.5	2,213.4	2,207.9	8.0	4.4	170.31	-70.8	-204.5	577.0	568.9	8.08	71.367		
2,400.0	2,351.8	2,306.0	2,300.0	8.5	4.6	170.26	-76.4	-211.9	614.8	606.3	8.45	72.734		
2,500.0	2,447.2	2,398.6	2,392.1	9.1	4.8	170.23	-82.1	-219.4	652.5	643.7	8.82	73.981		
2,600.0	2,542.5	2,491.2	2,484.3	9.7	5.1	170.19	-87.7	-226.8	690.3	681.2	9.19	75.123		
2,700.0	2,637.8	2,583.8	2,576.4	10.3	5.3	170.16	-93.3	-234.3	728.1	718.6	9.56	76.172		
2,800.0	2,733.1	2,676.3	2,668.5	10.8	5.5	170.13	-99.0	-241.7	765.9	756.0	9.93	77.140		
2,900.0	2,828.4	2,768.9	2,760.6	11.4	5.7	170.11	-104.6	-249.2	803.7	793.4	10.30	78.036		
3,000.0	2,923.7	2,861.5	2,852.7	12.0	6.0	170.08	-110.2	-256.6	841.5	830.9	10.67	78.866		
3,100.0	3,019.1	2,954.1	2,944.8	12.5	6.2	170.06	-115.9	-264.1	879.3	868.3	11.04	79.638		
3,200.0	3,114.4	3,046.7	3,036.9	13.1	6.4	170.04	-121.5	-271.5	917.1	905.7	11.41	80.358		
3,300.0	3,209.7	3,139.2	3,129.0	13.7	6.6	170.02	-127.2	-279.0	954.9	943.1	11.78	81.031		
3,400.0	3,305.0	3,231.8	3,221.1	14.3	6.9	170.01	-132.8	-286.4	992.7	980.6	12.16	81.661		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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	-89.58	0.7	-100.2	100.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.58	0.7	-100.2	100.2	99.9	0.30	337.595		
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.7	-100.2	100.2	99.5	0.65	155.111 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	175.00	0.7	-100.2	101.0	100.0	0.99	101.560		
400.0	400.0	400.0	400.0	0.7	0.7	175.12	0.7	-100.2	103.6	102.3	1.34	77.122		
500.0	499.9	499.9	499.9	0.9	0.8	175.31	0.7	-100.2	108.0	106.3	1.69	63.791		
600.0	599.7	599.7	599.7	1.1	1.0	175.56	0.7	-100.2	114.1	112.0	2.04	55.873		
700.0	699.4	699.4	699.4	1.3	1.2	175.84	0.7	-100.2	121.9	119.5	2.39	50.997		
800.0	798.9	798.9	798.9	1.5	1.4	176.14	0.7	-100.2	131.5	128.7	2.74	48.001		
900.0	898.3	896.7	896.7	1.8	1.5	176.18	0.1	-100.7	143.3	140.2	3.08	46.472		
1,000.0	997.4	993.9	993.9	2.0	1.7	175.80	-1.7	-102.4	158.0	154.5	3.43	46.081 SF		
1,100.0	1,096.3	1,090.5	1,090.4	2.3	1.9	175.11	-4.7	-105.2	175.5	171.7	3.77	46.502		
1,200.0	1,194.9	1,186.2	1,186.0	2.7	2.1	174.24	-8.8	-109.0	195.8	191.7	4.12	47.517		
1,300.0	1,293.3	1,281.2	1,280.6	3.0	2.3	173.27	-14.1	-113.8	219.0	214.6	4.47	48.978		
1,400.0	1,391.2	1,377.8	1,376.9	3.4	2.4	172.37	-20.0	-119.3	244.5	239.7	4.83	50.583		
1,500.0	1,488.9	1,474.0	1,472.8	3.8	2.6	171.69	-25.9	-124.7	271.6	266.4	5.20	52.271		
1,600.0	1,586.1	1,569.8	1,568.2	4.2	2.8	171.17	-31.8	-130.1	300.5	294.9	5.56	54.022		
1,700.0	1,682.9	1,665.0	1,663.1	4.7	3.0	170.78	-37.6	-135.5	331.0	325.1	5.93	55.823		
1,800.0	1,779.3	1,759.7	1,757.4	5.2	3.2	170.49	-43.4	-140.8	363.1	356.8	6.30	57.663		
1,900.0	1,875.2	1,853.8	1,851.2	5.8	3.4	170.28	-49.2	-146.1	396.9	390.2	6.67	59.536		
1,960.5	1,933.0	1,910.5	1,907.7	6.1	3.6	170.18	-52.7	-149.3	418.1	411.2	6.89	60.686		
2,000.0	1,970.6	1,947.4	1,944.5	6.3	3.6	170.15	-54.9	-151.4	432.2	425.1	7.04	61.422		
2,100.0	2,065.9	2,040.8	2,037.6	6.9	3.9	170.08	-60.6	-156.7	467.7	460.3	7.41	63.152		
2,200.0	2,161.2	2,134.3	2,130.8	7.4	4.1	170.02	-66.4	-162.0	503.3	495.5	7.78	64.709		
2,300.0	2,256.5	2,227.7	2,223.9	8.0	4.3	169.97	-72.1	-167.2	538.8	530.7	8.15	66.117		
2,400.0	2,351.8	2,321.2	2,317.0	8.5	4.5	169.93	-77.8	-172.5	574.4	565.9	8.52	67.395		
2,500.0	2,447.2	2,414.7	2,410.2	9.1	4.7	169.89	-83.5	-177.8	610.0	601.1	8.90	68.560		
2,600.0	2,542.5	2,508.1	2,503.3	9.7	4.9	169.85	-89.3	-183.1	645.5	636.2	9.27	69.627		
2,700.0	2,637.8	2,601.6	2,596.4	10.3	5.1	169.82	-95.0	-188.3	681.1	671.4	9.65	70.607		
2,800.0	2,733.1	2,695.1	2,689.6	10.8	5.3	169.79	-100.7	-193.6	716.6	706.6	10.02	71.509		
2,900.0	2,828.4	2,788.5	2,782.7	11.4	5.5	169.77	-106.4	-198.9	752.2	741.8	10.40	72.344		
3,000.0	2,923.7	2,882.0	2,875.9	12.0	5.7	169.74	-112.2	-204.2	787.8	777.0	10.77	73.118		
3,100.0	3,019.1	2,975.4	2,969.0	12.5	5.9	169.72	-117.9	-209.4	823.3	812.2	11.15	73.837		
3,200.0	3,114.4	3,068.9	3,062.1	13.1	6.1	169.70	-123.6	-214.7	858.9	847.4	11.53	74.507		
3,300.0	3,209.7	3,162.4	3,155.3	13.7	6.3	169.68	-129.3	-220.0	894.4	882.5	11.90	75.133		
3,400.0	3,305.0	3,255.8	3,248.4	14.3	6.5	169.67	-135.1	-225.2	930.0	917.7	12.28	75.718		
3,500.0	3,400.3	3,349.3	3,341.6	14.8	6.8	169.65	-140.8	-230.5	965.6	952.9	12.66	76.268		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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	-90.1	90.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.79	0.3	-90.1	90.1	89.8	0.30	303.641		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.3	-90.1	90.1	89.4	0.65	139.511	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	174.80	0.3	-90.1	91.0	90.0	0.99	91.433		
400.0	400.0	400.0	400.0	0.7	0.7	174.94	0.3	-90.1	93.6	92.2	1.34	69.625		
500.0	499.9	499.9	499.9	0.9	0.8	175.16	0.3	-90.1	97.9	96.2	1.69	57.839		
600.0	599.7	599.7	599.7	1.1	1.0	175.44	0.3	-90.1	104.0	102.0	2.04	50.936		
700.0	699.4	699.3	699.3	1.3	1.2	175.65	0.1	-90.1	111.8	109.4	2.39	46.790		
800.0	798.9	798.6	798.6	1.5	1.4	175.17	-1.6	-90.3	121.5	118.8	2.74	44.369		
900.0	898.3	897.7	897.6	1.8	1.5	174.09	-5.0	-90.7	133.2	130.1	3.09	43.069		
1,000.0	997.4	996.5	996.2	2.0	1.7	172.61	-10.0	-91.2	146.8	143.3	3.45	42.534		
1,100.0	1,096.3	1,095.2	1,094.8	2.3	1.9	171.27	-15.6	-91.8	162.3	158.5	3.82	42.533	SF	
1,200.0	1,194.9	1,193.6	1,193.1	2.7	2.1	170.24	-21.2	-92.4	179.5	175.3	4.18	42.916		
1,300.0	1,293.3	1,291.8	1,291.1	3.0	2.3	169.48	-26.8	-93.0	198.5	193.9	4.55	43.587		
1,400.0	1,391.2	1,389.6	1,388.8	3.4	2.5	168.93	-32.3	-93.6	219.2	214.3	4.93	44.478		
1,500.0	1,488.9	1,487.1	1,486.1	3.8	2.7	168.55	-37.8	-94.2	241.5	236.2	5.30	45.543		
1,600.0	1,586.1	1,584.1	1,583.0	4.2	2.9	168.30	-43.3	-94.8	265.6	259.9	5.68	46.746		
1,700.0	1,682.9	1,680.8	1,679.5	4.7	3.0	168.15	-48.8	-95.3	291.3	285.2	6.06	48.062		
1,800.0	1,779.3	1,777.0	1,775.5	5.2	3.2	168.08	-54.3	-95.9	318.6	312.2	6.44	49.471		
1,900.0	1,875.2	1,872.7	1,871.0	5.8	3.4	168.07	-59.7	-96.5	347.6	340.8	6.82	50.959		
1,960.5	1,933.0	1,930.4	1,928.6	6.1	3.5	168.08	-63.0	-96.9	365.9	358.9	7.05	51.895		
2,000.0	1,970.6	1,967.9	1,966.1	6.3	3.6	168.12	-65.1	-97.1	378.1	370.9	7.20	52.501		
2,100.0	2,065.9	2,063.0	2,061.1	6.9	3.8	168.21	-70.5	-97.7	408.9	401.3	7.58	53.926		
2,200.0	2,161.2	2,158.2	2,156.1	7.4	4.0	168.29	-75.9	-98.2	439.6	431.7	7.96	55.210		
2,300.0	2,256.5	2,253.3	2,251.1	8.0	4.2	168.36	-81.3	-98.8	470.4	462.1	8.34	56.374		
2,400.0	2,351.8	2,348.5	2,346.1	8.5	4.4	168.42	-86.7	-99.4	501.2	492.5	8.73	57.433		
2,500.0	2,447.2	2,443.6	2,441.1	9.1	4.6	168.47	-92.0	-100.0	532.0	522.9	9.11	58.401		
2,600.0	2,542.5	2,538.8	2,536.0	9.7	4.7	168.52	-97.4	-100.5	562.8	553.3	9.49	59.288		
2,700.0	2,637.8	2,633.9	2,631.0	10.3	4.9	168.56	-102.8	-101.1	593.6	583.7	9.88	60.106		
2,800.0	2,733.1	2,729.0	2,726.0	10.8	5.1	168.60	-108.2	-101.7	624.4	614.1	10.26	60.860		
2,900.0	2,828.4	2,824.2	2,821.0	11.4	5.3	168.63	-113.6	-102.3	655.1	644.5	10.64	61.559		
3,000.0	2,923.7	2,919.3	2,916.0	12.0	5.5	168.67	-119.0	-102.8	685.9	674.9	11.03	62.208		
3,100.0	3,019.1	3,014.5	3,011.0	12.5	5.7	168.69	-124.4	-103.4	716.7	705.3	11.41	62.812		
3,200.0	3,114.4	3,109.6	3,106.0	13.1	5.9	168.72	-129.8	-104.0	747.5	735.7	11.79	63.376		
3,300.0	3,209.7	3,204.8	3,201.0	13.7	6.1	168.75	-135.2	-104.6	778.3	766.1	12.18	63.904		
3,400.0	3,305.0	3,299.9	3,295.9	14.3	6.3	168.77	-140.6	-105.1	809.1	796.5	12.56	64.398		
3,500.0	3,400.3	3,395.0	3,390.9	14.8	6.5	168.79	-146.0	-105.7	839.9	826.9	12.95	64.863		
3,600.0	3,495.6	3,490.2	3,485.9	15.4	6.6	168.81	-151.4	-106.3	870.7	857.3	13.33	65.300		
3,700.0	3,591.0	3,585.3	3,580.9	16.0	6.8	168.83	-156.7	-106.9	901.4	887.7	13.72	65.712		
3,800.0	3,686.3	3,680.5	3,675.9	16.6	7.0	168.84	-162.1	-107.4	932.2	918.1	14.10	66.101		
3,900.0	3,781.6	3,775.6	3,770.9	17.1	7.2	168.86	-167.5	-108.0	963.0	948.5	14.49	66.469		
4,000.0	3,876.9	3,870.8	3,865.9	17.7	7.4	168.87	-172.9	-108.6	993.8	978.9	14.87	66.818		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		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	-89.80	0.3	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.80	0.3	-80.0	80.0	79.7	0.30	269.693		
200.0	200.0	200.0	200.0	0.3	0.3	-89.80	0.3	-80.0	80.0	79.4	0.65	123.913 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.80	0.3	-80.0	80.9	79.9	0.99	81.308		
400.0	400.0	400.0	400.0	0.7	0.7	174.96	0.3	-80.0	83.5	82.2	1.34	62.130		
500.0	499.9	499.9	499.9	0.9	0.8	175.20	0.3	-80.0	87.8	86.1	1.69	51.889		
600.0	599.7	599.7	599.7	1.1	1.0	175.51	0.3	-80.0	93.9	91.9	2.04	46.004		
700.0	699.4	699.9	699.9	1.3	1.2	175.38	-0.6	-79.8	101.5	99.1	2.39	42.435		
800.0	798.9	800.0	800.0	1.5	1.4	174.47	-3.1	-79.1	110.3	107.6	2.74	40.194		
900.0	898.3	900.0	899.8	1.8	1.6	172.97	-7.3	-77.9	120.4	117.3	3.10	38.811		
1,000.0	997.4	999.5	999.2	2.0	1.7	171.16	-12.9	-76.2	132.0	128.5	3.47	38.048		
1,100.0	1,096.3	1,098.5	1,098.0	2.3	1.9	169.66	-18.8	-74.6	145.3	141.4	3.84	37.838 SF		
1,200.0	1,194.9	1,197.4	1,196.7	2.7	2.1	168.54	-24.6	-72.9	160.4	156.2	4.22	38.041		
1,300.0	1,293.3	1,295.9	1,295.0	3.0	2.3	167.71	-30.5	-71.2	177.2	172.6	4.60	38.553		
1,400.0	1,391.2	1,394.2	1,393.1	3.4	2.5	167.13	-36.3	-69.5	195.7	190.7	4.98	39.301		
1,500.0	1,488.9	1,492.1	1,490.8	3.8	2.7	166.75	-42.1	-67.9	215.9	210.5	5.37	40.235		
1,600.0	1,586.1	1,589.7	1,588.2	4.2	2.9	166.52	-47.9	-66.2	237.8	232.0	5.75	41.318		
1,700.0	1,682.9	1,686.9	1,685.2	4.7	3.1	166.41	-53.6	-64.6	261.3	255.1	6.14	42.522		
1,800.0	1,779.3	1,783.6	1,781.8	5.2	3.3	166.39	-59.4	-62.9	286.4	279.9	6.54	43.827		
1,900.0	1,875.2	1,880.0	1,878.0	5.8	3.5	166.43	-65.1	-61.3	313.2	306.3	6.93	45.218		
1,960.5	1,933.0	1,938.1	1,936.0	6.1	3.6	166.49	-68.5	-60.3	330.3	323.1	7.16	46.097		
2,000.0	1,970.6	1,975.9	1,973.7	6.3	3.7	166.55	-70.8	-59.7	341.6	334.2	7.32	46.668		
2,100.0	2,065.9	2,071.7	2,069.4	6.9	3.9	166.70	-76.4	-58.0	370.2	362.5	7.71	48.010		
2,200.0	2,161.2	2,167.5	2,165.0	7.4	4.1	166.82	-82.1	-56.4	398.8	390.7	8.10	49.219		
2,300.0	2,256.5	2,263.3	2,260.6	8.0	4.3	166.93	-87.8	-54.8	427.4	418.9	8.49	50.314		
2,400.0	2,351.8	2,359.2	2,356.3	8.5	4.5	167.03	-93.5	-53.2	456.0	447.1	8.89	51.310		
2,500.0	2,447.2	2,455.0	2,451.9	9.1	4.6	167.11	-99.1	-51.5	484.6	475.3	9.28	52.219		
2,600.0	2,542.5	2,550.8	2,547.5	9.7	4.8	167.18	-104.8	-49.9	513.2	503.6	9.67	53.053		
2,700.0	2,637.8	2,646.6	2,643.2	10.3	5.0	167.25	-110.5	-48.3	541.8	531.8	10.07	53.820		
2,800.0	2,733.1	2,742.4	2,738.8	10.8	5.2	167.31	-116.2	-46.7	570.5	560.0	10.46	54.529		
2,900.0	2,828.4	2,838.2	2,834.4	11.4	5.4	167.36	-121.8	-45.0	599.1	588.2	10.86	55.184		
3,000.0	2,923.7	2,934.1	2,930.1	12.0	5.6	167.41	-127.5	-43.4	627.7	616.4	11.25	55.793		
3,100.0	3,019.1	3,029.9	3,025.7	12.5	5.8	167.46	-133.2	-41.8	656.3	644.7	11.64	56.360		
3,200.0	3,114.4	3,125.7	3,121.3	13.1	6.0	167.50	-138.9	-40.1	684.9	672.9	12.04	56.889		
3,300.0	3,209.7	3,221.5	3,217.0	13.7	6.2	167.54	-144.5	-38.5	713.5	701.1	12.43	57.383		
3,400.0	3,305.0	3,317.3	3,312.6	14.3	6.4	167.57	-150.2	-36.9	742.2	729.3	12.83	57.847		
3,500.0	3,400.3	3,413.1	3,408.2	14.8	6.6	167.60	-155.9	-35.3	770.8	757.6	13.22	58.282		
3,600.0	3,495.6	3,509.0	3,503.9	15.4	6.8	167.63	-161.6	-33.6	799.4	785.8	13.62	58.692		
3,700.0	3,591.0	3,604.8	3,599.5	16.0	7.0	167.66	-167.2	-32.0	828.0	814.0	14.02	59.078		
3,800.0	3,686.3	3,700.6	3,695.1	16.6	7.2	167.69	-172.9	-30.4	856.6	842.2	14.41	59.443		
3,900.0	3,781.6	3,796.4	3,790.8	17.1	7.4	167.71	-178.6	-28.8	885.3	870.4	14.81	59.787		
4,000.0	3,876.9	3,892.2	3,886.4	17.7	7.6	167.73	-184.3	-27.1	913.9	898.7	15.20	60.114		
4,100.0	3,972.2	3,988.0	3,982.0	18.3	7.8	167.76	-190.0	-25.5	942.5	926.9	15.60	60.424		
4,200.0	4,067.5	4,083.9	4,077.7	18.9	8.0	167.78	-195.6	-23.9	971.1	955.1	15.99	60.718		
4,300.0	4,162.9	4,179.7	4,173.3	19.4	8.2	167.80	-201.3	-22.3	999.7	983.3	16.39	60.997		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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: 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	-89.72	0.3	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.72	0.3	-69.9	69.9	69.7	0.30	235.747		
200.0	200.0	200.0	200.0	0.3	0.3	-89.72	0.3	-69.9	69.9	69.3	0.65	108.316 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.88	0.3	-69.9	70.8	69.8	0.99	71.184		
400.0	400.0	400.0	400.0	0.7	0.7	175.06	0.3	-69.9	73.4	72.1	1.34	54.636		
500.0	499.9	499.9	499.9	0.9	0.8	175.34	0.3	-69.9	77.8	76.1	1.69	45.940		
600.0	599.7	600.2	600.2	1.1	1.0	175.56	0.2	-69.8	83.7	81.7	2.04	40.981		
700.0	699.4	701.0	701.0	1.3	1.2	175.12	-1.1	-68.6	90.4	88.0	2.39	37.738		
800.0	798.9	801.8	801.7	1.5	1.4	174.05	-3.8	-66.3	97.6	94.8	2.75	35.500		
900.0	898.3	902.6	902.4	1.8	1.6	172.49	-7.8	-62.8	105.4	102.3	3.11	33.912		
1,000.0	997.4	1,003.3	1,002.8	2.0	1.8	170.59	-13.1	-58.1	114.0	110.5	3.48	32.763		
1,100.0	1,096.3	1,102.8	1,102.0	2.3	2.0	168.82	-18.9	-52.9	123.9	120.0	3.86	32.128		
1,200.0	1,194.9	1,202.0	1,200.9	2.7	2.2	167.47	-24.7	-47.8	135.6	131.3	4.24	31.976 SF		
1,300.0	1,293.3	1,301.1	1,299.7	3.0	2.4	166.48	-30.6	-42.7	149.0	144.4	4.63	32.187		
1,400.0	1,391.2	1,399.9	1,398.2	3.4	2.6	165.80	-36.4	-37.5	164.2	159.1	5.02	32.675		
1,500.0	1,488.9	1,498.5	1,496.5	3.8	2.8	165.36	-42.1	-32.4	181.0	175.6	5.42	33.382		
1,600.0	1,586.1	1,596.8	1,594.5	4.2	3.0	165.11	-47.9	-27.4	199.5	193.7	5.82	34.265		
1,700.0	1,682.9	1,694.7	1,692.1	4.7	3.2	165.02	-53.6	-22.3	219.6	213.4	6.22	35.291		
1,800.0	1,779.3	1,792.3	1,789.4	5.2	3.4	165.03	-59.4	-17.2	241.4	234.8	6.63	36.438		
1,900.0	1,875.2	1,889.5	1,886.3	5.8	3.6	165.13	-65.1	-12.2	264.9	257.8	7.03	37.687		
1,960.5	1,933.0	1,948.2	1,944.8	6.1	3.8	165.22	-68.5	-9.2	279.9	272.6	7.27	38.489		
2,000.0	1,970.6	1,986.3	1,982.9	6.3	3.8	165.31	-70.8	-7.2	289.8	282.4	7.43	39.011		
2,100.0	2,065.9	2,083.1	2,079.3	6.9	4.1	165.51	-76.4	-2.2	315.1	307.3	7.83	40.238		
2,200.0	2,161.2	2,179.8	2,175.8	7.4	4.3	165.68	-82.1	2.8	340.4	332.1	8.23	41.343		
2,300.0	2,256.5	2,276.6	2,272.2	8.0	4.5	165.82	-87.8	7.9	365.6	357.0	8.63	42.343		
2,400.0	2,351.8	2,373.3	2,368.7	8.5	4.7	165.95	-93.5	12.9	390.9	381.8	9.04	43.253		
2,500.0	2,447.2	2,470.1	2,465.1	9.1	4.9	166.06	-99.1	17.9	416.1	406.7	9.44	44.083		
2,600.0	2,542.5	2,566.9	2,561.6	9.7	5.1	166.16	-104.8	22.9	441.4	431.6	9.84	44.844		
2,700.0	2,637.8	2,663.6	2,658.0	10.3	5.3	166.25	-110.5	27.9	466.7	456.4	10.25	45.544		
2,800.0	2,733.1	2,760.4	2,754.5	10.8	5.5	166.33	-116.2	32.9	492.0	481.3	10.65	46.190		
2,900.0	2,828.4	2,857.1	2,851.0	11.4	5.8	166.40	-121.8	37.9	517.2	506.2	11.05	46.788		
3,000.0	2,923.7	2,953.9	2,947.4	12.0	6.0	166.46	-127.5	42.9	542.5	531.0	11.46	47.343		
3,100.0	3,019.1	3,050.6	3,043.9	12.5	6.2	166.52	-133.2	47.9	567.8	555.9	11.86	47.859		
3,200.0	3,114.4	3,147.4	3,140.3	13.1	6.4	166.58	-138.9	53.0	593.0	580.8	12.27	48.341		
3,300.0	3,209.7	3,244.1	3,236.8	13.7	6.6	166.63	-144.5	58.0	618.3	605.6	12.67	48.792		
3,400.0	3,305.0	3,340.9	3,333.2	14.3	6.8	166.67	-150.2	63.0	643.6	630.5	13.08	49.214		
3,500.0	3,400.3	3,437.6	3,429.7	14.8	7.0	166.72	-155.9	68.0	668.9	655.4	13.48	49.611		
3,600.0	3,495.6	3,534.4	3,526.1	15.4	7.2	166.75	-161.6	73.0	694.1	680.3	13.89	49.984		
3,700.0	3,591.0	3,631.1	3,622.6	16.0	7.5	166.79	-167.2	78.0	719.4	705.1	14.29	50.335		
3,800.0	3,686.3	3,727.9	3,719.1	16.6	7.7	166.82	-172.9	83.0	744.7	730.0	14.70	50.667		
3,900.0	3,781.6	3,824.6	3,815.5	17.1	7.9	166.86	-178.6	88.0	770.0	754.9	15.10	50.981		
4,000.0	3,876.9	3,921.4	3,912.0	17.7	8.1	166.89	-184.3	93.0	795.2	779.7	15.51	51.278		
4,100.0	3,972.2	4,018.1	4,008.4	18.3	8.3	166.91	-189.9	98.1	820.5	804.6	15.91	51.560		
4,200.0	4,067.5	4,114.9	4,104.9	18.9	8.5	166.94	-195.6	103.1	845.8	829.5	16.32	51.828		
4,300.0	4,162.9	4,211.6	4,201.3	19.4	8.7	166.96	-201.3	108.1	871.1	854.4	16.73	52.082		
4,400.0	4,258.2	4,308.4	4,297.8	20.0	9.0	166.99	-207.0	113.1	896.4	879.2	17.13	52.325		
4,500.0	4,353.5	4,405.1	4,394.2	20.6	9.2	167.01	-212.7	118.1	921.6	904.1	17.54	52.555		
4,600.0	4,448.8	4,501.9	4,490.7	21.2	9.4	167.03	-218.3	123.1	946.9	929.0	17.94	52.776		
4,700.0	4,544.1	4,598.6	4,587.2	21.7	9.6	167.05	-224.0	128.1	972.2	953.8	18.35	52.986		
4,800.0	4,639.4	4,695.4	4,683.6	22.3	9.8	167.07	-229.7	133.1	997.5	978.7	18.75	53.188		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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: 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	-89.68	0.3	-60.2	60.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.68	0.3	-60.2	60.2	59.9	0.30	202.743		
200.0	200.0	200.0	200.0	0.3	0.3	-89.68	0.3	-60.2	60.2	59.5	0.65	93.152 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.92	0.3	-60.2	61.0	60.0	0.99	61.341		
400.0	400.0	400.0	400.0	0.7	0.7	175.13	0.3	-60.2	63.6	62.3	1.34	47.349		
500.0	499.9	499.9	499.9	0.9	0.8	175.44	0.3	-60.2	68.0	66.3	1.69	40.157		
600.0	599.7	600.7	600.7	1.1	1.0	175.42	-0.2	-59.4	73.3	71.3	2.04	35.888		
700.0	699.4	701.7	701.6	1.3	1.2	174.76	-1.8	-57.3	79.0	76.6	2.40	32.981		
800.0	798.9	802.6	802.5	1.5	1.4	173.60	-4.4	-53.7	85.0	82.3	2.75	30.906		
900.0	898.3	903.6	903.3	1.8	1.6	172.05	-8.0	-48.7	91.4	88.3	3.11	29.372		
1,000.0	997.4	1,004.6	1,004.0	2.0	1.8	170.19	-12.7	-42.2	98.2	94.7	3.48	28.203		
1,100.0	1,096.3	1,105.3	1,104.1	2.3	2.0	168.16	-18.4	-34.4	105.5	101.7	3.87	27.306		
1,200.0	1,194.9	1,204.8	1,203.2	2.7	2.2	166.45	-24.3	-26.3	114.4	110.1	4.26	26.861		
1,300.0	1,293.3	1,304.2	1,302.1	3.0	2.5	165.19	-30.1	-18.2	125.0	120.3	4.66	26.822 SF		
1,400.0	1,391.2	1,403.4	1,400.8	3.4	2.7	164.31	-36.0	-10.2	137.3	132.2	5.07	27.094		
1,500.0	1,488.9	1,502.4	1,499.3	3.8	2.9	163.75	-41.8	-2.1	151.3	145.8	5.48	27.611		
1,600.0	1,586.1	1,601.2	1,597.6	4.2	3.2	163.45	-47.7	5.9	166.9	161.0	5.89	28.325		
1,700.0	1,682.9	1,699.7	1,695.6	4.7	3.4	163.35	-53.5	13.9	184.2	177.9	6.31	29.202		
1,800.0	1,779.3	1,797.9	1,793.3	5.2	3.6	163.40	-59.3	21.8	203.2	196.5	6.73	30.214		
1,900.0	1,875.2	1,895.7	1,890.6	5.8	3.9	163.55	-65.0	29.8	223.8	216.7	7.14	31.341		
1,960.5	1,933.0	1,954.8	1,949.4	6.1	4.0	163.68	-68.5	34.6	237.1	229.7	7.39	32.074		
2,000.0	1,970.6	1,993.3	1,987.7	6.3	4.1	163.79	-70.8	37.7	245.9	238.4	7.55	32.554		
2,100.0	2,065.9	2,090.7	2,084.6	6.9	4.3	164.05	-76.5	45.6	268.3	260.4	7.97	33.682		
2,200.0	2,161.2	2,188.1	2,181.6	7.4	4.6	164.27	-82.3	53.5	290.7	282.4	8.38	34.696		
2,300.0	2,256.5	2,285.6	2,278.5	8.0	4.8	164.45	-88.0	61.4	313.2	304.4	8.79	35.613		
2,400.0	2,351.8	2,383.0	2,375.5	8.5	5.0	164.62	-93.8	69.3	335.6	326.4	9.21	36.446		
2,500.0	2,447.2	2,480.5	2,472.4	9.1	5.3	164.76	-99.5	77.3	358.0	348.4	9.62	37.206		
2,600.0	2,542.5	2,577.9	2,569.4	9.7	5.5	164.88	-105.3	85.2	380.4	370.4	10.04	37.902		
2,700.0	2,637.8	2,675.4	2,666.4	10.3	5.8	164.99	-111.0	93.1	402.9	392.4	10.45	38.542		
2,800.0	2,733.1	2,772.8	2,763.3	10.8	6.0	165.09	-116.8	101.0	425.3	414.4	10.87	39.133		
2,900.0	2,828.4	2,870.3	2,860.3	11.4	6.2	165.18	-122.5	108.9	447.7	436.5	11.28	39.679		
3,000.0	2,923.7	2,967.7	2,957.2	12.0	6.5	165.26	-128.3	116.8	470.2	458.5	11.70	40.185		
3,100.0	3,019.1	3,065.2	3,054.2	12.5	6.7	165.33	-134.0	124.7	492.6	480.5	12.12	40.656		
3,200.0	3,114.4	3,162.6	3,151.1	13.1	7.0	165.40	-139.8	132.6	515.0	502.5	12.53	41.096		
3,300.0	3,209.7	3,260.1	3,248.1	13.7	7.2	165.46	-145.5	140.5	537.5	524.5	12.95	41.507		
3,400.0	3,305.0	3,357.5	3,345.1	14.3	7.4	165.52	-151.3	148.5	559.9	546.6	13.37	41.891		
3,500.0	3,400.3	3,455.0	3,442.0	14.8	7.7	165.57	-157.0	156.4	582.4	568.6	13.78	42.252		
3,600.0	3,495.6	3,552.4	3,539.0	15.4	7.9	165.62	-162.8	164.3	604.8	590.6	14.20	42.592		
3,700.0	3,591.0	3,649.9	3,635.9	16.0	8.1	165.66	-168.5	172.2	627.2	612.6	14.62	42.912		
3,800.0	3,686.3	3,747.3	3,732.9	16.6	8.4	165.70	-174.3	180.1	649.7	634.6	15.03	43.214		
3,900.0	3,781.6	3,844.8	3,829.8	17.1	8.6	165.74	-180.0	188.0	672.1	656.7	15.45	43.499		
4,000.0	3,876.9	3,942.2	3,926.8	17.7	8.9	165.78	-185.8	195.9	694.6	678.7	15.87	43.770		
4,100.0	3,972.2	4,039.7	4,023.8	18.3	9.1	165.81	-191.5	203.8	717.0	700.7	16.29	44.026		
4,200.0	4,067.5	4,137.1	4,120.7	18.9	9.3	165.84	-197.3	211.7	739.4	722.7	16.70	44.269		
4,300.0	4,162.9	4,234.6	4,217.7	19.4	9.6	165.87	-203.0	219.6	761.9	744.7	17.12	44.500		
4,400.0	4,258.2	4,332.0	4,314.6	20.0	9.8	165.90	-208.8	227.6	784.3	766.8	17.54	44.720		
4,500.0	4,353.5	4,429.5	4,411.6	20.6	10.1	165.93	-214.5	235.5	806.7	788.8	17.96	44.930		
4,600.0	4,448.8	4,526.9	4,508.5	21.2	10.3	165.95	-220.3	243.4	829.2	810.8	18.37	45.130		
4,700.0	4,544.1	4,624.4	4,605.5	21.7	10.6	165.98	-226.0	251.3	851.6	832.8	18.79	45.321		
4,800.0	4,639.4	4,721.8	4,702.5	22.3	10.8	166.00	-231.8	259.2	874.1	854.9	19.21	45.503		
4,900.0	4,734.7	4,819.3	4,799.4	22.9	11.0	166.02	-237.5	267.1	896.5	876.9	19.63	45.678		
5,000.0	4,830.1	4,916.7	4,896.4	23.5	11.3	166.04	-243.3	275.0	919.0	898.9	20.04	45.845		

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 4W-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 4W-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	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	4,925.4	5,014.2	4,993.3	24.0	11.5	166.06	-249.0	282.9	941.4	920.9	20.46	46.006						
5,200.0	5,020.7	5,111.6	5,090.3	24.6	11.8	166.08	-254.8	290.8	963.8	943.0	20.88	46.160						
5,300.0	5,116.0	5,209.1	5,187.2	25.2	12.0	166.10	-260.5	298.8	986.3	965.0	21.30	46.308						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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 4R-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	-89.65	0.3	-50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.65	0.3	-50.1	50.1	49.8	0.30	168.796		
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.3	-50.1	50.1	49.4	0.65	77.555 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.97	0.3	-50.1	51.0	50.0	0.99	51.216		
400.0	400.0	400.0	400.0	0.7	0.7	175.22	0.3	-50.1	53.6	52.2	1.34	39.855		
500.0	499.9	499.9	499.9	0.9	0.8	175.57	0.3	-50.1	57.9	56.2	1.69	34.207		
600.0	599.7	600.7	600.7	1.1	1.0	175.63	-0.1	-49.3	63.2	61.2	2.04	30.934		
700.0	699.4	701.5	701.5	1.3	1.2	175.11	-1.4	-47.0	68.7	66.3	2.40	28.684		
800.0	798.9	802.5	802.3	1.5	1.4	174.15	-3.5	-43.1	74.4	71.6	2.75	27.061		
900.0	898.3	903.5	903.2	1.8	1.6	172.84	-6.4	-37.6	80.3	77.2	3.11	25.847		
1,000.0	997.4	1,004.5	1,003.9	2.0	1.8	171.27	-10.2	-30.5	86.4	83.0	3.47	24.907		
1,100.0	1,096.3	1,105.6	1,104.5	2.3	2.0	169.50	-14.9	-21.9	92.9	89.0	3.85	24.154		
1,200.0	1,194.9	1,206.8	1,205.0	2.7	2.3	167.58	-20.4	-11.8	99.7	95.4	4.24	23.524		
1,300.0	1,293.3	1,306.7	1,304.1	3.0	2.5	165.77	-26.3	-0.7	107.3	102.6	4.64	23.106		
1,400.0	1,391.2	1,406.2	1,402.8	3.4	2.8	164.43	-32.3	10.4	116.6	111.6	5.06	23.051 SF		
1,500.0	1,488.9	1,505.6	1,501.4	3.8	3.0	163.50	-38.2	21.4	127.7	122.2	5.49	23.286		
1,600.0	1,586.1	1,604.7	1,599.8	4.2	3.3	162.92	-44.2	32.4	140.5	134.6	5.91	23.752		
1,700.0	1,682.9	1,703.7	1,697.9	4.7	3.5	162.62	-50.1	43.4	154.9	148.6	6.35	24.409		
1,800.0	1,779.3	1,802.4	1,795.8	5.2	3.8	162.53	-56.0	54.4	171.0	164.2	6.78	25.224		
1,900.0	1,875.2	1,900.8	1,893.5	5.8	4.1	162.61	-61.9	65.3	188.7	181.5	7.21	26.174		
1,960.5	1,933.0	1,960.2	1,952.4	6.1	4.2	162.72	-65.5	71.9	200.2	192.7	7.47	26.808		
2,000.0	1,970.6	1,998.9	1,990.8	6.3	4.3	162.82	-67.8	76.2	207.9	200.3	7.64	27.227		
2,100.0	2,065.9	2,097.0	2,088.1	6.9	4.6	163.05	-73.7	87.1	227.4	219.4	8.06	28.206		
2,200.0	2,161.2	2,195.1	2,185.4	7.4	4.9	163.24	-79.5	98.0	247.0	238.5	8.49	29.084		
2,300.0	2,256.5	2,293.1	2,282.7	8.0	5.2	163.40	-85.4	108.9	266.5	257.6	8.92	29.876		
2,400.0	2,351.8	2,391.2	2,380.0	8.5	5.4	163.54	-91.3	119.8	286.0	276.7	9.35	30.592		
2,500.0	2,447.2	2,489.3	2,477.2	9.1	5.7	163.67	-97.2	130.7	305.6	295.8	9.78	31.244		
2,600.0	2,542.5	2,587.4	2,574.5	9.7	6.0	163.78	-103.0	141.6	325.1	314.9	10.21	31.840		
2,700.0	2,637.8	2,685.4	2,671.8	10.3	6.2	163.87	-108.9	152.5	344.6	334.0	10.64	32.386		
2,800.0	2,733.1	2,783.5	2,769.1	10.8	6.5	163.96	-114.8	163.4	364.2	353.1	11.07	32.888		
2,900.0	2,828.4	2,881.6	2,866.4	11.4	6.8	164.03	-120.7	174.3	383.7	372.2	11.51	33.352		
3,000.0	2,923.7	2,979.6	2,963.7	12.0	7.1	164.10	-126.5	185.2	403.3	391.3	11.94	33.781		
3,100.0	3,019.1	3,077.7	3,061.0	12.5	7.3	164.17	-132.4	196.1	422.8	410.4	12.37	34.180		
3,200.0	3,114.4	3,175.8	3,158.3	13.1	7.6	164.22	-138.3	207.0	442.3	429.5	12.80	34.551		
3,300.0	3,209.7	3,273.9	3,255.5	13.7	7.9	164.28	-144.1	217.9	461.9	448.6	13.24	34.897		
3,400.0	3,305.0	3,371.9	3,352.8	14.3	8.2	164.33	-150.0	228.7	481.4	467.8	13.67	35.221		
3,500.0	3,400.3	3,470.0	3,450.1	14.8	8.4	164.37	-155.9	239.6	501.0	486.9	14.10	35.524		
3,600.0	3,495.6	3,568.1	3,547.4	15.4	8.7	164.41	-161.8	250.5	520.5	506.0	14.54	35.809		
3,700.0	3,591.0	3,666.1	3,644.7	16.0	9.0	164.45	-167.6	261.4	540.1	525.1	14.97	36.077		
3,800.0	3,686.3	3,764.2	3,742.0	16.6	9.2	164.48	-173.5	272.3	559.6	544.2	15.40	36.329		
3,900.0	3,781.6	3,862.3	3,839.3	17.1	9.5	164.52	-179.4	283.2	579.1	563.3	15.84	36.568		
4,000.0	3,876.9	3,960.4	3,936.6	17.7	9.8	164.55	-185.3	294.1	598.7	582.4	16.27	36.793		
4,100.0	3,972.2	4,058.4	4,033.8	18.3	10.1	164.58	-191.1	305.0	618.2	601.5	16.71	37.007		
4,200.0	4,067.5	4,156.5	4,131.1	18.9	10.3	164.61	-197.0	315.9	637.8	620.6	17.14	37.209		
4,300.0	4,162.9	4,254.6	4,228.4	19.4	10.6	164.63	-202.9	326.8	657.3	639.7	17.57	37.401		
4,400.0	4,258.2	4,352.6	4,325.7	20.0	10.9	164.66	-208.8	337.7	676.9	658.8	18.01	37.584		
4,500.0	4,353.5	4,450.7	4,423.0	20.6	11.2	164.68	-214.6	348.6	696.4	678.0	18.44	37.758		
4,600.0	4,448.8	4,548.8	4,520.3	21.2	11.5	164.70	-220.5	359.5	715.9	697.1	18.88	37.924		
4,700.0	4,544.1	4,646.9	4,617.6	21.7	11.7	164.72	-226.4	370.4	735.5	716.2	19.31	38.082		
4,800.0	4,639.4	4,744.9	4,714.8	22.3	12.0	164.74	-232.3	381.3	755.0	735.3	19.75	38.233		
4,900.0	4,734.7	4,843.0	4,812.1	22.9	12.3	164.76	-238.1	392.2	774.6	754.4	20.18	38.378		
5,000.0	4,830.1	4,941.1	4,909.4	23.5	12.6	164.77	-244.0	403.1	794.1	773.5	20.62	38.516		

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 4W-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 4W-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 4R-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	4,925.4	5,039.1	5,006.7	24.0	12.8	164.79	-249.9	414.0	813.7	792.6	21.05	38.649						
5,200.0	5,020.7	5,137.2	5,104.0	24.6	13.1	164.81	-255.8	424.9	833.2	811.7	21.49	38.776						
5,300.0	5,116.0	5,235.3	5,201.3	25.2	13.4	164.82	-261.6	435.8	852.7	830.8	21.92	38.898						
5,400.0	5,211.3	5,333.4	5,298.6	25.8	13.7	164.84	-267.5	446.6	872.3	849.9	22.36	39.015						
5,500.0	5,306.6	5,431.4	5,395.9	26.3	13.9	164.85	-273.4	457.5	891.8	869.0	22.79	39.128						
5,600.0	5,402.0	5,529.5	5,493.1	26.9	14.2	164.86	-279.3	468.4	911.4	888.1	23.23	39.236						
5,700.0	5,497.3	5,627.6	5,590.4	27.5	14.5	164.88	-285.1	479.3	930.9	907.3	23.66	39.340						
5,800.0	5,592.6	5,725.6	5,687.7	28.1	14.8	164.89	-291.0	490.2	950.5	926.4	24.10	39.441						
5,900.0	5,687.9	5,823.7	5,785.0	28.7	15.0	164.90	-296.9	501.1	970.0	945.5	24.53	39.537						
6,000.0	5,783.2	5,921.8	5,882.3	29.2	15.3	164.91	-302.7	512.0	989.6	964.6	24.97	39.631						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.57	0.3	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.57	0.3	-40.0	40.0	39.7	0.30	134.849	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.57	0.3	-40.0	40.0	39.4	0.65	61.958		
300.0	300.0	300.0	300.0	0.5	0.5	175.07	0.3	-40.0	40.9	39.9	0.99	41.092		
400.0	400.0	400.0	400.0	0.7	0.7	175.36	0.3	-40.0	43.5	42.1	1.34	32.360		
500.0	499.9	500.6	500.6	0.9	0.8	175.37	-0.1	-39.2	47.0	45.3	1.69	27.759		
600.0	599.7	601.3	601.3	1.1	1.0	174.74	-1.1	-36.8	50.7	48.7	2.05	24.789		
700.0	699.4	702.1	702.0	1.3	1.2	173.61	-3.0	-32.7	54.5	52.1	2.40	22.734		
800.0	798.9	802.9	802.6	1.5	1.4	172.09	-5.5	-27.1	58.5	55.7	2.75	21.240		
900.0	898.3	903.8	903.1	1.8	1.6	170.27	-8.7	-19.8	62.7	59.6	3.12	20.113		
1,000.0	997.4	1,004.6	1,003.5	2.0	1.8	168.21	-12.7	-10.9	67.1	63.6	3.49	19.231		
1,100.0	1,096.3	1,105.5	1,103.7	2.3	2.1	165.98	-17.4	-0.4	71.8	67.9	3.88	18.513		
1,200.0	1,194.9	1,206.4	1,203.8	2.7	2.4	163.64	-22.8	11.7	76.8	72.6	4.29	17.902		
1,300.0	1,293.3	1,306.6	1,302.9	3.0	2.6	161.42	-28.8	25.0	82.6	77.8	4.73	17.452		
1,400.0	1,391.2	1,406.3	1,401.5	3.4	2.9	159.84	-34.7	38.2	90.0	84.8	5.18	17.354		
1,500.0	1,488.9	1,505.9	1,500.0	3.8	3.2	158.86	-40.6	51.5	99.0	93.4	5.64	17.546		
1,600.0	1,586.1	1,605.3	1,598.4	4.2	3.5	158.38	-46.5	64.7	109.7	103.6	6.11	17.971		
1,700.0	1,682.9	1,704.5	1,696.5	4.7	3.8	158.27	-52.4	77.9	122.0	115.5	6.57	18.586		
1,800.0	1,779.3	1,803.5	1,794.5	5.2	4.1	158.45	-58.3	91.1	136.0	128.9	7.02	19.362		
1,900.0	1,875.2	1,902.3	1,892.2	5.8	4.4	158.82	-64.2	104.2	151.5	144.0	7.47	20.275		
1,960.5	1,933.0	1,962.0	1,951.3	6.1	4.6	159.11	-67.8	112.1	161.7	154.0	7.74	20.888		
2,000.0	1,970.6	2,000.8	1,989.7	6.3	4.7	159.33	-70.1	117.3	168.5	160.6	7.91	21.294		
2,100.0	2,065.9	2,099.3	2,087.1	6.9	5.0	159.81	-75.9	130.4	185.9	177.5	8.36	22.245		
2,200.0	2,161.2	2,197.8	2,184.6	7.4	5.3	160.21	-81.8	143.5	203.2	194.4	8.80	23.100		
2,300.0	2,256.5	2,296.3	2,282.0	8.0	5.6	160.55	-87.6	156.6	220.6	211.3	9.24	23.871		
2,400.0	2,351.8	2,394.7	2,379.4	8.5	5.9	160.83	-93.5	169.7	237.9	228.3	9.68	24.572		
2,500.0	2,447.2	2,493.2	2,476.8	9.1	6.2	161.08	-99.4	182.8	255.3	245.2	10.13	25.210		
2,600.0	2,542.5	2,591.7	2,574.3	9.7	6.5	161.30	-105.2	195.9	272.7	262.1	10.57	25.793		
2,700.0	2,637.8	2,690.2	2,671.7	10.3	6.8	161.49	-111.1	209.0	290.0	279.0	11.02	26.329		
2,800.0	2,733.1	2,788.6	2,769.1	10.8	7.1	161.66	-116.9	222.1	307.4	296.0	11.46	26.823		
2,900.0	2,828.4	2,887.1	2,866.5	11.4	7.4	161.81	-122.8	235.2	324.8	312.9	11.91	27.279		
3,000.0	2,923.7	2,985.6	2,964.0	12.0	7.7	161.94	-128.7	248.3	342.2	329.8	12.35	27.702		
3,100.0	3,019.1	3,084.1	3,061.4	12.5	8.0	162.07	-134.5	261.4	359.6	346.8	12.80	28.095		
3,200.0	3,114.4	3,182.5	3,158.8	13.1	8.3	162.18	-140.4	274.5	376.9	363.7	13.24	28.461		
3,300.0	3,209.7	3,281.0	3,256.2	13.7	8.6	162.28	-146.2	287.6	394.3	380.6	13.69	28.802		
3,400.0	3,305.0	3,379.5	3,353.6	14.3	8.9	162.37	-152.1	300.7	411.7	397.6	14.14	29.122		
3,500.0	3,400.3	3,478.0	3,451.1	14.8	9.2	162.46	-158.0	313.8	429.1	414.5	14.58	29.422		
3,600.0	3,495.6	3,576.4	3,548.5	15.4	9.5	162.54	-163.8	326.9	446.5	431.5	15.03	29.704		
3,700.0	3,591.0	3,674.9	3,645.9	16.0	9.8	162.61	-169.7	340.0	463.9	448.4	15.48	29.970		
3,800.0	3,686.3	3,773.4	3,743.3	16.6	10.1	162.68	-175.5	353.1	481.3	465.3	15.93	30.220		
3,900.0	3,781.6	3,871.9	3,840.8	17.1	10.4	162.74	-181.4	366.2	498.7	482.3	16.37	30.457		
4,000.0	3,876.9	3,970.3	3,938.2	17.7	10.7	162.80	-187.3	379.3	516.1	499.2	16.82	30.681		
4,100.0	3,972.2	4,068.8	4,035.6	18.3	11.0	162.85	-193.1	392.3	533.4	516.2	17.27	30.893		
4,200.0	4,067.5	4,167.3	4,133.0	18.9	11.3	162.90	-199.0	405.4	550.8	533.1	17.72	31.094		
4,300.0	4,162.9	4,265.8	4,230.5	19.4	11.6	162.95	-204.8	418.5	568.2	550.1	18.16	31.285		
4,400.0	4,258.2	4,364.2	4,327.9	20.0	11.9	163.00	-210.7	431.6	585.6	567.0	18.61	31.467		
4,500.0	4,353.5	4,462.7	4,425.3	20.6	12.2	163.04	-216.6	444.7	603.0	584.0	19.06	31.640		
4,600.0	4,448.8	4,561.2	4,522.7	21.2	12.5	163.08	-222.4	457.8	620.4	600.9	19.51	31.805		
4,700.0	4,544.1	4,659.7	4,620.2	21.7	12.9	163.12	-228.3	470.9	637.8	617.8	19.95	31.963		
4,800.0	4,639.4	4,758.1	4,717.6	22.3	13.2	163.15	-234.1	484.0	655.2	634.8	20.40	32.113		
4,900.0	4,734.7	4,856.6	4,815.0	22.9	13.5	163.19	-240.0	497.1	672.6	651.7	20.85	32.258		
5,000.0	4,830.1	4,955.1	4,912.4	23.5	13.8	163.22	-245.8	510.2	690.0	668.7	21.30	32.396		

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 4W-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 4W-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	4,925.4	5,053.6	5,009.9	24.0	14.1	163.25	-251.7	523.3	707.4	685.6	21.75	32.528		
5,200.0	5,020.7	5,152.0	5,107.3	24.6	14.4	163.28	-257.6	536.4	724.8	702.6	22.19	32.655		
5,300.0	5,116.0	5,250.5	5,204.7	25.2	14.7	163.31	-263.4	549.5	742.2	719.5	22.64	32.776		
5,400.0	5,211.3	5,349.0	5,302.1	25.8	15.0	163.34	-269.3	562.6	759.6	736.5	23.09	32.893		
5,500.0	5,306.6	5,447.5	5,399.6	26.3	15.3	163.36	-275.1	575.7	776.9	753.4	23.54	33.006		
5,600.0	5,402.0	5,545.9	5,497.0	26.9	15.6	163.39	-281.0	588.8	794.3	770.4	23.99	33.114		
5,700.0	5,497.3	5,644.4	5,594.4	27.5	15.9	163.41	-286.9	601.9	811.7	787.3	24.44	33.218		
5,800.0	5,592.6	5,742.9	5,691.8	28.1	16.2	163.43	-292.7	615.0	829.1	804.2	24.88	33.319		
5,900.0	5,687.9	5,841.4	5,789.2	28.7	16.5	163.45	-298.6	628.1	846.5	821.2	25.33	33.415		
6,000.0	5,783.2	5,939.8	5,886.7	29.2	16.8	163.47	-304.4	641.2	863.9	838.1	25.78	33.509		
6,100.0	5,878.5	6,038.3	5,984.1	29.8	17.1	163.49	-310.3	654.3	881.3	855.1	26.23	33.599		
6,200.0	5,973.9	6,136.8	6,081.5	30.4	17.4	163.51	-316.2	667.4	898.7	872.0	26.68	33.686		
6,300.0	6,069.2	6,235.3	6,178.9	31.0	17.7	163.53	-322.0	680.5	916.1	889.0	27.13	33.770		
6,400.0	6,164.5	6,333.7	6,276.4	31.5	18.0	163.55	-327.9	693.6	933.5	905.9	27.58	33.852		
6,500.0	6,259.8	6,432.2	6,373.8	32.1	18.3	163.57	-333.7	706.7	950.9	922.9	28.02	33.931		
6,600.0	6,355.1	6,530.7	6,471.2	32.7	18.6	163.58	-339.6	719.8	968.3	939.8	28.47	34.007		
6,700.0	6,450.4	6,629.2	6,568.6	33.3	18.9	163.60	-345.5	732.9	985.7	956.8	28.92	34.081		
11,700.0	7,429.0	11,735.2	7,500.0	82.1	76.7	-94.09	4,115.8	858.1	997.2	847.4	149.85	6.655		
11,800.0	7,429.0	11,835.1	7,500.0	83.6	78.4	-94.10	4,215.7	858.1	993.8	840.5	153.29	6.483		
11,834.9	7,429.0	11,870.0	7,500.0	84.2	79.0	-94.10	4,250.6	858.1	992.5	838.0	154.50	6.424 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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				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	-89.30	0.4	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.30	0.4	-29.9	29.9	29.6	0.30	100.906		
200.0	200.0	200.0	200.0	0.3	0.3	-89.30	0.4	-29.9	29.9	29.3	0.65	46.362 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	175.37	0.4	-29.9	30.8	29.8	0.99	30.969		
400.0	400.0	400.2	400.2	0.7	0.7	175.62	0.3	-29.7	33.2	31.9	1.34	24.703		
500.0	499.9	500.8	500.8	0.9	0.8	175.31	-0.3	-28.1	35.9	34.2	1.69	21.178		
600.0	599.7	601.4	601.3	1.1	1.0	174.47	-1.4	-24.7	38.6	36.6	2.05	18.889		
700.0	699.4	702.0	701.8	1.3	1.2	173.20	-3.0	-19.7	41.5	39.1	2.40	17.294		
800.0	798.9	802.6	802.2	1.5	1.4	171.60	-5.3	-13.0	44.4	41.7	2.75	16.128		
900.0	898.3	903.3	902.5	1.8	1.6	169.73	-8.1	-4.6	47.5	44.4	3.12	15.239		
1,000.0	997.4	1,004.0	1,002.6	2.0	1.9	167.65	-11.4	5.4	50.7	47.2	3.49	14.538		
1,100.0	1,096.3	1,104.8	1,102.6	2.3	2.1	165.43	-15.3	17.2	54.1	50.2	3.88	13.961		
1,200.0	1,194.9	1,205.6	1,202.4	2.7	2.4	163.11	-19.8	30.6	57.7	53.4	4.29	13.465		
1,300.0	1,293.3	1,306.4	1,301.9	3.0	2.7	160.73	-24.8	45.6	61.6	56.9	4.73	13.018		
1,400.0	1,391.2	1,407.2	1,401.2	3.4	3.1	158.32	-30.3	62.3	65.7	60.5	5.22	12.600		
1,500.0	1,488.9	1,507.5	1,499.7	3.8	3.4	156.06	-36.3	80.4	70.3	64.6	5.74	12.253		
1,600.0	1,586.1	1,607.2	1,597.6	4.2	3.8	154.57	-42.3	98.4	76.5	70.2	6.28	12.181		
1,700.0	1,682.9	1,706.9	1,695.5	4.7	4.1	153.83	-48.3	116.5	84.3	77.4	6.82	12.359		
1,800.0	1,779.3	1,806.5	1,793.2	5.2	4.5	153.68	-54.3	134.6	93.6	86.2	7.35	12.742		
1,900.0	1,875.2	1,905.9	1,890.8	5.8	4.9	153.97	-60.3	152.6	104.5	96.6	7.86	13.298		
1,960.5	1,933.0	1,966.0	1,949.8	6.1	5.1	154.30	-64.0	163.5	111.8	103.7	8.16	13.710		
2,000.0	1,970.6	2,005.1	1,988.2	6.3	5.2	154.56	-66.3	170.6	116.8	108.5	8.35	13.991		
2,100.0	2,065.9	2,104.3	2,085.5	6.9	5.6	155.12	-72.3	188.5	129.5	120.6	8.84	14.645		
2,200.0	2,161.2	2,203.5	2,182.9	7.4	6.0	155.59	-78.3	206.5	142.1	132.8	9.33	15.229		
2,300.0	2,256.5	2,302.7	2,280.3	8.0	6.3	155.97	-84.3	224.5	154.7	144.9	9.82	15.753		
2,400.0	2,351.8	2,401.9	2,377.6	8.5	6.7	156.30	-90.2	242.5	167.4	157.1	10.32	16.226		
2,500.0	2,447.2	2,501.1	2,475.0	9.1	7.1	156.59	-96.2	260.4	180.1	169.2	10.81	16.654		
2,600.0	2,542.5	2,600.3	2,572.4	9.7	7.4	156.83	-102.2	278.4	192.7	181.4	11.31	17.044		
2,700.0	2,637.8	2,699.5	2,669.7	10.3	7.8	157.05	-108.2	296.4	205.4	193.6	11.80	17.401		
2,800.0	2,733.1	2,798.7	2,767.1	10.8	8.2	157.24	-114.1	314.4	218.1	205.8	12.30	17.728		
2,900.0	2,828.4	2,897.9	2,864.5	11.4	8.6	157.41	-120.1	332.3	230.7	217.9	12.80	18.028		
3,000.0	2,923.7	2,997.0	2,961.8	12.0	8.9	157.56	-126.1	350.3	243.4	230.1	13.30	18.306		
3,100.0	3,019.1	3,096.2	3,059.2	12.5	9.3	157.69	-132.1	368.3	256.1	242.3	13.80	18.564		
3,200.0	3,114.4	3,195.4	3,156.6	13.1	9.7	157.82	-138.1	386.3	268.8	254.5	14.29	18.802		
3,300.0	3,209.7	3,294.6	3,253.9	13.7	10.0	157.93	-144.0	404.2	281.4	266.6	14.79	19.025		
3,400.0	3,305.0	3,393.8	3,351.3	14.3	10.4	158.03	-150.0	422.2	294.1	278.8	15.29	19.232		
3,500.0	3,400.3	3,493.0	3,448.7	14.8	10.8	158.13	-156.0	440.2	306.8	291.0	15.79	19.427		
3,600.0	3,495.6	3,592.2	3,546.0	15.4	11.2	158.21	-162.0	458.2	319.5	303.2	16.29	19.609		
3,700.0	3,591.0	3,691.4	3,643.4	16.0	11.5	158.29	-168.0	476.1	332.2	315.4	16.79	19.779		
3,800.0	3,686.3	3,790.6	3,740.8	16.6	11.9	158.37	-173.9	494.1	344.8	327.6	17.29	19.940		
3,900.0	3,781.6	3,889.8	3,838.1	17.1	12.3	158.44	-179.9	512.1	357.5	339.7	17.79	20.092		
4,000.0	3,876.9	3,989.0	3,935.5	17.7	12.7	158.50	-185.9	530.1	370.2	351.9	18.30	20.235		
4,100.0	3,972.2	4,088.2	4,032.9	18.3	13.1	158.56	-191.9	548.0	382.9	364.1	18.80	20.370		
4,200.0	4,067.5	4,187.3	4,130.2	18.9	13.4	158.62	-197.8	566.0	395.6	376.3	19.30	20.498		
4,300.0	4,162.9	4,286.5	4,227.6	19.4	13.8	158.67	-203.8	584.0	408.3	388.5	19.80	20.620		
4,400.0	4,258.2	4,385.7	4,325.0	20.0	14.2	158.72	-209.8	602.0	420.9	400.6	20.30	20.735		
4,500.0	4,353.5	4,484.9	4,422.3	20.6	14.6	158.77	-215.8	619.9	433.6	412.8	20.80	20.845		
4,600.0	4,448.8	4,584.1	4,519.7	21.2	14.9	158.81	-221.8	637.9	446.3	425.0	21.30	20.950		
4,700.0	4,544.1	4,683.3	4,617.1	21.7	15.3	158.85	-227.7	655.9	459.0	437.2	21.81	21.049		
4,800.0	4,639.4	4,782.5	4,714.4	22.3	15.7	158.89	-233.7	673.9	471.7	449.4	22.31	21.144		
4,900.0	4,734.7	4,881.7	4,811.8	22.9	16.1	158.93	-239.7	691.8	484.4	461.6	22.81	21.235		
5,000.0	4,830.1	4,980.9	4,909.1	23.5	16.4	158.97	-245.7	709.8	497.1	473.8	23.31	21.322		

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 4W-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 4W-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		
5,100.0	4,925.4	5,080.1	5,006.5	24.0	16.8	159.00	-251.6	727.8	509.7	485.9	23.81	21.405		
5,200.0	5,020.7	5,179.3	5,103.9	24.6	17.2	159.03	-257.6	745.8	522.4	498.1	24.32	21.485		
5,300.0	5,116.0	5,278.5	5,201.2	25.2	17.6	159.06	-263.6	763.7	535.1	510.3	24.82	21.561		
5,400.0	5,211.3	5,377.6	5,298.6	25.8	17.9	159.09	-269.6	781.7	547.8	522.5	25.32	21.634		
5,500.0	5,306.6	5,476.8	5,396.0	26.3	18.3	159.12	-275.6	799.7	560.5	534.7	25.82	21.704		
5,600.0	5,402.0	5,576.0	5,493.3	26.9	18.7	159.14	-281.5	817.7	573.2	546.9	26.33	21.772		
5,700.0	5,497.3	5,675.2	5,590.7	27.5	19.1	159.17	-287.5	835.6	585.9	559.0	26.83	21.837		
5,800.0	5,592.6	5,774.4	5,688.1	28.1	19.5	159.19	-293.5	853.6	598.6	571.2	27.33	21.900		
5,900.0	5,687.9	5,873.6	5,785.4	28.7	19.8	159.22	-299.5	871.6	611.2	583.4	27.83	21.960		
6,000.0	5,783.2	5,972.8	5,882.8	29.2	20.2	159.24	-305.5	889.6	623.9	595.6	28.34	22.018		
6,100.0	5,878.5	6,072.0	5,980.2	29.8	20.6	159.26	-311.4	907.5	636.6	607.8	28.84	22.074		
6,200.0	5,973.9	6,171.2	6,077.5	30.4	21.0	159.28	-317.4	925.5	649.3	620.0	29.34	22.129		
6,300.0	6,069.2	6,270.4	6,174.9	31.0	21.3	159.30	-323.4	943.5	662.0	632.1	29.85	22.181		
6,400.0	6,164.5	6,369.6	6,272.3	31.5	21.7	159.32	-329.4	961.5	674.7	644.3	30.35	22.231		
6,500.0	6,259.8	6,468.8	6,369.6	32.1	22.1	159.34	-335.3	979.4	687.4	656.5	30.85	22.280		
6,600.0	6,355.1	6,567.9	6,467.0	32.7	22.5	159.36	-341.3	997.4	700.1	668.7	31.35	22.328		
6,700.0	6,450.4	6,667.1	6,564.4	33.3	22.9	159.37	-347.3	1,015.4	712.7	680.9	31.86	22.373		
6,800.0	6,545.8	6,766.3	6,661.7	33.9	23.2	159.39	-353.3	1,033.4	725.4	693.1	32.36	22.418		
6,900.0	6,641.1	6,867.7	6,761.2	34.4	23.6	159.41	-359.3	1,051.7	738.1	705.2	32.87	22.459		
6,981.7	6,719.0	6,977.9	6,869.5	34.9	24.0	160.15	-356.3	1,071.7	746.7	713.8	32.82	22.752		
7,000.0	6,736.4	7,002.2	6,893.1	35.0	24.0	165.18	-353.3	1,076.1	748.2	715.5	32.69	22.887		
7,050.0	6,784.1	7,067.8	6,956.6	35.3	24.2	178.99	-341.3	1,087.8	752.3	720.1	32.19	23.370		
7,100.0	6,831.6	7,132.3	7,017.6	35.6	24.3	-168.10	-323.7	1,099.0	756.0	724.5	31.53	23.976		
7,150.0	6,878.6	7,195.5	7,075.6	35.8	24.5	-156.85	-301.2	1,109.8	759.6	728.8	30.77	24.685		
7,200.0	6,925.1	7,257.4	7,130.4	36.1	24.5	-147.42	-274.2	1,119.9	762.9	733.0	29.95	25.471		
7,250.0	6,970.6	7,318.0	7,181.5	36.3	24.6	-139.62	-243.2	1,129.3	766.1	736.9	29.13	26.296		
7,300.0	7,015.1	7,377.2	7,228.9	36.5	24.7	-133.17	-208.7	1,138.1	769.0	740.6	28.37	27.111		
7,350.0	7,058.2	7,435.1	7,272.3	36.8	24.8	-127.75	-171.3	1,146.1	771.8	744.1	27.70	27.865		
7,400.0	7,099.8	7,491.7	7,311.7	37.0	24.9	-123.15	-131.4	1,153.4	774.5	747.3	27.17	28.506		
7,450.0	7,139.7	7,547.0	7,347.2	37.2	25.0	-119.19	-89.5	1,159.9	777.0	750.2	26.81	28.985		
7,500.0	7,177.7	7,601.0	7,378.6	37.4	25.1	-115.73	-45.9	1,165.7	779.4	752.7	26.62	29.272		
7,550.0	7,213.6	7,653.9	7,406.2	37.6	25.2	-112.68	-1.1	1,170.8	781.6	755.0	26.63	29.347		
7,600.0	7,247.2	7,705.6	7,430.0	37.8	25.3	-109.96	44.6	1,175.2	783.7	756.9	26.82	29.226		
7,650.0	7,278.3	7,756.3	7,450.0	38.0	25.5	-107.52	91.0	1,178.9	785.7	758.6	27.16	28.934		
7,700.0	7,306.9	7,805.9	7,466.5	38.2	25.6	-105.33	137.7	1,181.9	787.5	759.9	27.63	28.505		
7,750.0	7,332.7	7,854.6	7,479.5	38.4	25.8	-103.35	184.5	1,184.3	789.2	761.0	28.21	27.981		
7,800.0	7,355.7	7,902.4	7,489.2	38.6	26.0	-101.56	231.2	1,186.1	790.7	761.8	28.86	27.399		
7,850.0	7,375.7	7,950.0	7,495.9	38.8	26.2	-99.93	278.4	1,187.3	792.0	762.4	29.59	26.768		
7,900.0	7,392.6	7,995.4	7,499.3	39.0	26.4	-98.50	323.6	1,188.0	793.1	762.8	30.30	26.178		
7,950.0	7,406.4	8,041.6	7,500.0	39.2	26.7	-97.19	369.9	1,188.1	793.9	762.9	31.08	25.548		
8,000.0	7,416.9	8,090.5	7,500.0	39.4	26.9	-96.13	418.7	1,188.1	794.4	762.4	32.00	24.825		
8,050.0	7,424.2	8,139.9	7,500.0	39.6	27.2	-95.45	468.2	1,188.1	794.2	761.2	33.01	24.060		
8,100.0	7,428.2	8,189.8	7,500.0	39.8	27.6	-95.14	518.0	1,188.1	793.4	759.3	34.07	23.284		
8,134.9	7,429.0	8,224.6	7,500.0	39.9	27.8	-95.14	552.9	1,188.1	792.3	757.5	34.86	22.728		
8,200.0	7,429.0	8,289.7	7,500.0	40.2	28.3	-95.16	617.9	1,188.1	790.1	753.7	36.39	21.714		
8,300.0	7,429.0	8,389.6	7,500.0	40.7	29.1	-95.18	717.9	1,188.1	786.6	747.7	38.88	20.233		
8,400.0	7,429.0	8,489.6	7,500.0	41.3	30.0	-95.20	817.8	1,188.1	783.1	741.6	41.51	18.865		
8,500.0	7,429.0	8,589.5	7,500.0	41.9	30.9	-95.23	917.7	1,188.1	779.6	735.4	44.26	17.613		
8,600.0	7,429.0	8,689.5	7,500.0	42.6	32.0	-95.25	1,017.7	1,188.1	776.2	729.0	47.11	16.474		
8,700.0	7,429.0	8,789.4	7,500.0	43.4	33.1	-95.28	1,117.6	1,188.1	772.7	722.6	50.05	15.439		
8,800.0	7,429.0	8,889.3	7,500.0	44.2	34.2	-95.30	1,217.6	1,188.1	769.2	716.2	53.05	14.501		
8,900.0	7,429.0	8,989.3	7,500.0	45.1	35.4	-95.32	1,317.5	1,188.1	765.7	709.6	56.10	13.649		

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 4W-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 4W-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		
9,000.0	7,429.0	9,089.2	7,500.0	46.0	36.7	-95.35	1,417.4	1,188.1	762.3	703.0	59.21	12.875		
9,100.0	7,429.0	9,189.1	7,500.0	47.0	37.9	-95.37	1,517.4	1,188.1	758.8	696.4	62.35	12.169		
9,200.0	7,429.0	9,289.1	7,500.0	48.0	39.3	-95.40	1,617.3	1,188.1	755.3	689.8	65.53	11.526		
9,300.0	7,429.0	9,389.0	7,500.0	49.0	40.6	-95.42	1,717.3	1,188.1	751.8	683.1	68.74	10.937		
9,400.0	7,429.0	9,489.0	7,500.0	50.1	42.0	-95.45	1,817.2	1,188.1	748.4	676.4	71.97	10.398		
9,500.0	7,429.0	9,588.9	7,500.0	51.3	43.4	-95.47	1,917.1	1,188.1	744.9	669.6	75.23	9.901		
9,600.0	7,429.0	9,688.8	7,500.0	52.4	44.9	-95.50	2,017.1	1,188.1	741.4	662.9	78.51	9.444		
9,700.0	7,429.0	9,788.8	7,500.0	53.6	46.3	-95.52	2,117.0	1,188.1	737.9	656.1	81.80	9.021		
9,800.0	7,429.0	9,888.7	7,500.0	54.9	47.8	-95.55	2,217.0	1,188.1	734.5	649.3	85.11	8.629		
9,900.0	7,429.0	9,988.7	7,500.0	56.1	49.3	-95.58	2,316.9	1,188.1	731.0	642.6	88.43	8.266		
10,000.0	7,429.0	10,088.6	7,500.0	57.4	50.8	-95.60	2,416.8	1,188.1	727.5	635.7	91.77	7.928		
10,100.0	7,429.0	10,188.5	7,500.0	58.7	52.3	-95.63	2,516.8	1,188.1	724.0	628.9	95.11	7.612		
10,200.0	7,429.0	10,288.5	7,500.0	60.1	53.9	-95.66	2,616.7	1,188.1	720.6	622.1	98.47	7.318		
10,300.0	7,429.0	10,388.4	7,500.0	61.4	55.4	-95.69	2,716.6	1,188.1	717.1	615.3	101.83	7.042		
10,400.0	7,429.0	10,488.4	7,500.0	62.8	57.0	-95.71	2,816.6	1,188.1	713.6	608.4	105.20	6.783		
10,500.0	7,429.0	10,588.3	7,500.0	64.2	58.6	-95.74	2,916.5	1,188.1	710.1	601.6	108.58	6.540		
10,600.0	7,429.0	10,688.2	7,500.0	65.6	60.2	-95.77	3,016.5	1,188.1	706.7	594.7	111.96	6.312		
10,700.0	7,429.0	10,788.2	7,500.0	67.0	61.7	-95.80	3,116.4	1,188.1	703.2	587.8	115.35	6.096		
10,800.0	7,429.0	10,888.1	7,500.0	68.5	63.4	-95.83	3,216.3	1,188.1	699.7	581.0	118.75	5.893		
10,900.0	7,429.0	10,988.0	7,500.0	70.0	65.0	-95.86	3,316.3	1,188.1	696.3	574.1	122.15	5.700		
11,000.0	7,429.0	11,088.0	7,500.0	71.4	66.6	-95.89	3,416.2	1,188.1	692.8	567.2	125.55	5.518		
11,100.0	7,429.0	11,187.9	7,500.0	72.9	68.2	-95.92	3,516.2	1,188.1	689.3	560.4	128.96	5.345		
11,200.0	7,429.0	11,287.9	7,500.0	74.4	69.8	-95.95	3,616.1	1,188.1	685.8	553.5	132.37	5.181		
11,300.0	7,429.0	11,387.8	7,500.0	75.9	71.5	-95.98	3,716.0	1,188.1	682.4	546.6	135.78	5.026		
11,400.0	7,429.0	11,487.7	7,500.0	77.4	73.1	-96.01	3,816.0	1,188.1	678.9	539.7	139.20	4.877		
11,500.0	7,429.0	11,587.7	7,500.0	79.0	74.8	-96.04	3,915.9	1,188.1	675.4	532.8	142.62	4.736		
11,600.0	7,429.0	11,687.6	7,500.0	80.5	76.4	-96.07	4,015.9	1,188.1	672.0	525.9	146.04	4.601		
11,700.0	7,429.0	11,787.6	7,500.0	82.1	78.1	-96.10	4,115.8	1,188.1	668.5	519.0	149.46	4.473		
11,800.0	7,429.0	11,887.5	7,500.0	83.6	79.7	-96.13	4,215.7	1,188.1	665.0	512.1	152.89	4.350		
11,834.9	7,429.0	11,922.4	7,500.0	84.2	80.3	-96.14	4,250.6	1,188.1	663.8	509.7	154.08	4.308 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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			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	-90.08	0.0	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-90.08	0.0	-20.1	20.1	19.8	0.30	67.894		
200.0	200.0	200.0	200.0	0.3	0.3	-90.08	0.0	-20.1	20.1	19.5	0.65	31.195 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	174.68	0.0	-20.1	21.0	20.0	0.99	21.122		
400.0	400.0	400.3	400.3	0.7	0.7	174.67	-0.3	-19.3	22.8	21.4	1.34	16.942		
500.0	499.9	500.7	500.7	0.9	0.9	173.89	-1.0	-16.8	24.6	22.9	1.69	14.519		
600.0	599.7	601.1	601.0	1.1	1.0	172.50	-2.3	-12.6	26.5	24.5	2.05	12.954		
700.0	699.4	701.6	701.2	1.3	1.2	170.64	-4.0	-6.7	28.5	26.1	2.40	11.871		
800.0	798.9	802.0	801.4	1.5	1.4	168.41	-6.3	0.9	30.6	27.8	2.76	11.086		
900.0	898.3	902.5	901.4	1.8	1.7	165.91	-9.0	10.2	32.8	29.7	3.13	10.494		
1,000.0	997.4	1,003.0	1,001.2	2.0	1.9	163.22	-12.2	21.2	35.2	31.7	3.51	10.028		
1,100.0	1,096.3	1,103.5	1,100.9	2.3	2.2	160.41	-16.0	33.8	37.9	33.9	3.93	9.644		
1,200.0	1,194.9	1,204.0	1,200.3	2.7	2.5	157.54	-20.2	48.1	40.7	36.3	4.37	9.311		
1,300.0	1,293.3	1,304.6	1,299.4	3.0	2.8	154.67	-24.9	64.1	43.8	38.9	4.86	9.007		
1,400.0	1,391.2	1,405.1	1,398.3	3.4	3.2	151.83	-30.2	81.7	47.1	41.7	5.40	8.721		
1,500.0	1,488.9	1,505.7	1,496.8	3.8	3.5	149.07	-35.9	101.1	50.8	44.8	6.01	8.447		
1,600.0	1,586.1	1,605.7	1,594.5	4.2	3.9	146.80	-41.9	121.4	55.1	48.4	6.66	8.274		
1,700.0	1,682.9	1,705.5	1,692.1	4.7	4.3	145.77	-47.9	141.7	60.9	53.6	7.30	8.347		
1,800.0	1,779.3	1,805.3	1,789.5	5.2	4.7	145.75	-53.9	162.1	68.2	60.3	7.90	8.624		
1,900.0	1,875.2	1,904.9	1,886.9	5.8	5.1	146.46	-59.9	182.4	76.9	68.4	8.47	9.071		
1,960.5	1,933.0	1,965.1	1,945.8	6.1	5.4	147.12	-63.5	194.7	82.8	74.0	8.80	9.416		
2,000.0	1,970.6	2,004.4	1,984.1	6.3	5.5	147.60	-65.9	202.7	86.9	77.9	9.00	9.653		
2,100.0	2,065.9	2,103.8	2,081.3	6.9	5.9	148.64	-71.9	222.9	97.3	87.7	9.53	10.209		
2,200.0	2,161.2	2,203.2	2,178.4	7.4	6.3	149.47	-77.9	243.2	107.6	97.6	10.06	10.706		
2,300.0	2,256.5	2,302.7	2,275.6	8.0	6.7	150.16	-83.9	263.5	118.1	107.5	10.59	11.152		
2,400.0	2,351.8	2,402.1	2,372.8	8.5	7.1	150.73	-89.9	283.7	128.5	117.3	11.12	11.556		
2,500.0	2,447.2	2,501.6	2,470.0	9.1	7.5	151.22	-95.9	304.0	138.9	127.2	11.65	11.922		
2,600.0	2,542.5	2,601.0	2,567.1	9.7	8.0	151.65	-101.9	324.3	149.3	137.1	12.19	12.255		
2,700.0	2,637.8	2,700.5	2,664.3	10.3	8.4	152.01	-107.9	344.5	159.8	147.0	12.72	12.559		
2,800.0	2,733.1	2,799.9	2,761.5	10.8	8.8	152.33	-113.9	364.8	170.2	157.0	13.26	12.839		
2,900.0	2,828.4	2,899.4	2,858.7	11.4	9.2	152.62	-119.8	385.1	180.7	166.9	13.80	13.096		
3,000.0	2,923.7	2,998.8	2,955.9	12.0	9.6	152.87	-125.8	405.3	191.1	176.8	14.33	13.333		
3,100.0	3,019.1	3,098.3	3,053.0	12.5	10.0	153.10	-131.8	425.6	201.6	186.7	14.87	13.553		
3,200.0	3,114.4	3,197.7	3,150.2	13.1	10.4	153.30	-137.8	445.9	212.0	196.6	15.41	13.758		
3,300.0	3,209.7	3,297.2	3,247.4	13.7	10.8	153.49	-143.8	466.1	222.5	206.6	15.95	13.948		
3,400.0	3,305.0	3,396.6	3,344.6	14.3	11.2	153.65	-149.8	486.4	233.0	216.5	16.49	14.125		
3,500.0	3,400.3	3,496.1	3,441.7	14.8	11.7	153.81	-155.8	506.7	243.4	226.4	17.03	14.291		
3,600.0	3,495.6	3,595.5	3,538.9	15.4	12.1	153.95	-161.8	526.9	253.9	236.3	17.58	14.447		
3,700.0	3,591.0	3,695.0	3,636.1	16.0	12.5	154.08	-167.8	547.2	264.4	246.3	18.12	14.593		
3,800.0	3,686.3	3,794.4	3,733.3	16.6	12.9	154.20	-173.8	567.5	274.9	256.2	18.66	14.730		
3,900.0	3,781.6	3,893.9	3,830.4	17.1	13.3	154.31	-179.8	587.7	285.3	266.1	19.20	14.860		
4,000.0	3,876.9	3,993.3	3,927.6	17.7	13.7	154.42	-185.8	608.0	295.8	276.1	19.74	14.982		
4,100.0	3,972.2	4,092.8	4,024.8	18.3	14.1	154.51	-191.8	628.3	306.3	286.0	20.29	15.097		
4,200.0	4,067.5	4,192.2	4,122.0	18.9	14.5	154.60	-197.8	648.6	316.8	295.9	20.83	15.207		
4,300.0	4,162.9	4,291.7	4,219.1	19.4	15.0	154.69	-203.8	668.8	327.2	305.9	21.37	15.311		
4,400.0	4,258.2	4,391.1	4,316.3	20.0	15.4	154.76	-209.7	689.1	337.7	315.8	21.92	15.409		
4,500.0	4,353.5	4,490.6	4,413.5	20.6	15.8	154.84	-215.7	709.4	348.2	325.7	22.46	15.503		
4,600.0	4,448.8	4,590.0	4,510.7	21.2	16.2	154.91	-221.7	729.6	358.7	335.7	23.00	15.592		
4,700.0	4,544.1	4,689.5	4,607.9	21.7	16.6	154.98	-227.7	749.9	369.1	345.6	23.55	15.677		
4,800.0	4,639.4	4,788.9	4,705.0	22.3	17.0	155.04	-233.7	770.2	379.6	355.5	24.09	15.758		
4,900.0	4,734.7	4,888.4	4,802.2	22.9	17.4	155.10	-239.7	790.4	390.1	365.5	24.63	15.836		
5,000.0	4,830.1	4,987.8	4,899.4	23.5	17.8	155.15	-245.7	810.7	400.6	375.4	25.18	15.910		

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 4W-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 4W-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		
5,100.0	4,925.4	5,087.3	4,996.6	24.0	18.3	155.21	-251.7	831.0	411.1	385.3	25.72	15.981		
5,200.0	5,020.7	5,186.7	5,093.7	24.6	18.7	155.26	-257.7	851.2	421.5	395.3	26.27	16.049		
5,300.0	5,116.0	5,286.2	5,190.9	25.2	19.1	155.30	-263.7	871.5	432.0	405.2	26.81	16.114		
5,400.0	5,211.3	5,385.6	5,288.1	25.8	19.5	155.35	-269.7	891.8	442.5	415.2	27.36	16.177		
5,500.0	5,306.6	5,485.0	5,385.3	26.3	19.9	155.39	-275.7	912.0	453.0	425.1	27.90	16.237		
5,600.0	5,402.0	5,584.5	5,482.4	26.9	20.3	155.43	-281.7	932.3	463.5	435.0	28.44	16.294		
5,700.0	5,497.3	5,683.9	5,579.6	27.5	20.7	155.47	-287.7	952.6	474.0	445.0	28.99	16.350		
5,800.0	5,592.6	5,783.4	5,676.8	28.1	21.2	155.51	-293.7	972.8	484.4	454.9	29.53	16.403		
5,900.0	5,687.9	5,882.8	5,774.0	28.7	21.6	155.55	-299.6	993.1	494.9	464.8	30.08	16.455		
6,000.0	5,783.2	5,982.3	5,871.2	29.2	22.0	155.58	-305.6	1,013.4	505.4	474.8	30.62	16.504		
6,100.0	5,878.5	6,081.7	5,968.3	29.8	22.4	155.62	-311.6	1,033.6	515.9	484.7	31.17	16.552		
6,200.0	5,973.9	6,181.2	6,065.5	30.4	22.8	155.65	-317.6	1,053.9	526.4	494.7	31.71	16.598		
6,300.0	6,069.2	6,280.6	6,162.7	31.0	23.2	155.68	-323.6	1,074.2	536.9	504.6	32.26	16.643		
6,400.0	6,164.5	6,380.1	6,259.9	31.5	23.6	155.71	-329.6	1,094.5	547.3	514.5	32.80	16.686		
6,500.0	6,259.8	6,479.5	6,357.0	32.1	24.0	155.74	-335.6	1,114.7	557.8	524.5	33.35	16.728		
6,600.0	6,355.1	6,579.0	6,454.2	32.7	24.5	155.77	-341.6	1,135.0	568.3	534.4	33.89	16.768		
6,700.0	6,450.4	6,678.4	6,551.4	33.3	24.9	155.79	-347.6	1,155.3	578.8	544.4	34.44	16.807		
6,800.0	6,545.8	6,777.9	6,648.6	33.9	25.3	155.82	-353.6	1,175.5	589.3	554.3	34.98	16.845		
6,900.0	6,641.1	6,877.3	6,745.7	34.4	25.7	155.84	-359.6	1,195.8	599.8	564.2	35.53	16.882		
6,981.7	6,719.0	6,984.2	6,850.3	34.9	26.1	156.44	-359.6	1,217.6	606.8	571.3	35.59	17.050		
7,000.0	6,736.4	7,008.8	6,874.2	35.0	26.2	161.44	-357.4	1,222.6	608.0	572.5	35.46	17.147		
7,050.0	6,784.1	7,075.4	6,938.6	35.3	26.4	175.17	-347.2	1,236.0	610.8	575.9	34.88	17.510		
7,100.0	6,831.6	7,141.0	7,000.9	35.6	26.6	-171.96	-331.2	1,249.0	613.3	579.2	34.08	17.993		
7,150.0	6,878.6	7,205.4	7,060.4	35.8	26.7	-160.73	-309.9	1,261.4	615.4	582.3	33.11	18.585		
7,200.0	6,925.1	7,268.7	7,116.8	36.1	26.9	-151.29	-283.7	1,273.2	617.3	585.2	32.03	19.272		
7,250.0	6,970.6	7,330.7	7,169.6	36.3	27.0	-143.47	-253.2	1,284.2	618.9	588.0	30.91	20.024		
7,300.0	7,015.1	7,391.4	7,218.7	36.5	27.1	-136.96	-219.0	1,294.4	620.3	590.5	29.82	20.805		
7,350.0	7,058.2	7,450.8	7,263.8	36.8	27.2	-131.48	-181.5	1,303.8	621.5	592.7	28.82	21.569		
7,400.0	7,099.8	7,508.9	7,304.7	37.0	27.3	-126.78	-141.3	1,312.4	622.7	594.7	27.97	22.260		
7,450.0	7,139.7	7,565.7	7,341.6	37.2	27.4	-122.71	-98.8	1,320.1	623.7	596.3	27.33	22.821		
7,500.0	7,177.7	7,621.1	7,374.3	37.4	27.5	-119.12	-54.5	1,326.9	624.6	597.6	26.91	23.207		
7,550.0	7,213.6	7,675.4	7,403.0	37.6	27.6	-115.93	-8.9	1,332.9	625.4	598.6	26.77	23.364		
7,600.0	7,247.2	7,728.5	7,427.7	37.8	27.8	-113.05	37.8	1,338.0	626.2	599.4	26.83	23.342		
7,650.0	7,278.3	7,780.4	7,448.5	38.0	27.9	-110.45	85.2	1,342.4	626.9	599.8	27.11	23.129		
7,700.0	7,306.9	7,831.2	7,465.5	38.2	28.1	-108.07	132.9	1,345.9	627.7	600.1	27.56	22.771		
7,750.0	7,332.7	7,881.0	7,479.0	38.4	28.2	-105.91	180.8	1,348.7	628.3	600.2	28.16	22.315		
7,800.0	7,355.7	7,929.9	7,489.0	38.6	28.4	-103.92	228.5	1,350.8	628.9	600.1	28.84	21.804		
7,850.0	7,375.7	7,977.8	7,495.8	38.8	28.6	-102.09	276.0	1,352.2	629.5	599.9	29.59	21.276		
7,900.0	7,392.6	8,024.9	7,499.3	39.0	28.8	-100.43	322.9	1,353.0	630.0	599.6	30.35	20.756		
7,950.0	7,406.4	8,071.9	7,500.0	39.2	29.0	-98.90	369.9	1,353.1	630.4	599.2	31.15	20.240		
8,000.0	7,416.9	8,120.7	7,500.0	39.4	29.3	-97.68	418.7	1,353.1	630.5	598.4	32.07	19.658		
8,050.0	7,424.2	8,170.2	7,500.0	39.6	29.6	-96.87	468.2	1,353.1	630.2	597.1	33.07	19.053		
8,100.0	7,428.2	8,220.0	7,500.0	39.8	29.9	-96.49	518.0	1,353.1	629.2	595.1	34.14	18.432		
8,134.9	7,429.0	8,254.9	7,500.0	39.9	30.1	-96.49	552.9	1,353.1	628.2	593.2	34.92	17.988		
8,200.0	7,429.0	8,320.0	7,500.0	40.2	30.5	-96.52	617.9	1,353.1	625.9	589.5	36.44	17.178		
8,300.0	7,429.0	8,419.9	7,500.0	40.7	31.3	-96.55	717.9	1,353.1	622.4	583.5	38.91	15.995		
8,400.0	7,429.0	8,519.8	7,500.0	41.3	32.1	-96.59	817.8	1,353.1	619.0	577.4	41.54	14.902		
8,500.0	7,429.0	8,619.8	7,500.0	41.9	33.0	-96.63	917.7	1,353.1	615.5	571.2	44.28	13.902		
8,600.0	7,429.0	8,719.7	7,500.0	42.6	34.0	-96.67	1,017.7	1,353.1	612.0	564.9	47.11	12.991		
8,700.0	7,429.0	8,819.6	7,500.0	43.4	35.0	-96.70	1,117.6	1,353.1	608.6	558.5	50.03	12.164		
8,800.0	7,429.0	8,919.6	7,500.0	44.2	36.1	-96.74	1,217.6	1,353.1	605.1	552.1	53.02	11.413		
8,900.0	7,429.0	9,019.5	7,500.0	45.1	37.2	-96.78	1,317.5	1,353.1	601.6	545.6	56.06	10.732		

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 4W-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 4W-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				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		
9,000.0	7,429.0	9,119.5	7,500.0	46.0	38.4	-96.82	1,417.4	1,353.1	598.2	539.0	59.15	10.113		
9,100.0	7,429.0	9,219.4	7,500.0	47.0	39.6	-96.86	1,517.4	1,353.1	594.7	532.4	62.28	9.549		
9,200.0	7,429.0	9,319.3	7,500.0	48.0	40.9	-96.90	1,617.3	1,353.1	591.2	525.8	65.45	9.034		
9,300.0	7,429.0	9,419.3	7,500.0	49.0	42.2	-96.94	1,717.3	1,353.1	587.8	519.1	68.64	8.563		
9,400.0	7,429.0	9,519.2	7,500.0	50.1	43.5	-96.98	1,817.2	1,353.1	584.3	512.4	71.86	8.131		
9,500.0	7,429.0	9,619.2	7,500.0	51.3	44.9	-97.03	1,917.1	1,353.1	580.8	505.7	75.10	7.734		
9,600.0	7,429.0	9,719.1	7,500.0	52.4	46.3	-97.07	2,017.1	1,353.1	577.4	499.0	78.37	7.368		
9,700.0	7,429.0	9,819.0	7,500.0	53.6	47.7	-97.11	2,117.0	1,353.1	573.9	492.3	81.64	7.029		
9,800.0	7,429.0	9,919.0	7,500.0	54.9	49.1	-97.15	2,217.0	1,353.1	570.5	485.5	84.94	6.716		
9,900.0	7,429.0	10,018.9	7,500.0	56.1	50.6	-97.20	2,316.9	1,353.1	567.0	478.7	88.24	6.425		
10,000.0	7,429.0	10,118.9	7,500.0	57.4	52.0	-97.24	2,416.8	1,353.1	563.5	472.0	91.56	6.155		
10,100.0	7,429.0	10,218.8	7,500.0	58.7	53.5	-97.29	2,516.8	1,353.1	560.1	465.2	94.89	5.902		
10,200.0	7,429.0	10,318.7	7,500.0	60.1	55.0	-97.33	2,616.7	1,353.1	556.6	458.4	98.23	5.666		
10,300.0	7,429.0	10,418.7	7,500.0	61.4	56.6	-97.38	2,716.6	1,353.1	553.1	451.6	101.57	5.446		
10,400.0	7,429.0	10,518.6	7,500.0	62.8	58.1	-97.43	2,816.6	1,353.1	549.7	444.8	104.93	5.239		
10,500.0	7,429.0	10,618.6	7,500.0	64.2	59.7	-97.47	2,916.5	1,353.1	546.2	437.9	108.29	5.044		
10,600.0	7,429.0	10,718.5	7,500.0	65.6	61.2	-97.52	3,016.5	1,353.1	542.8	431.1	111.65	4.861		
10,700.0	7,429.0	10,818.4	7,500.0	67.0	62.8	-97.57	3,116.4	1,353.1	539.3	424.3	115.02	4.689		
10,800.0	7,429.0	10,918.4	7,500.0	68.5	64.4	-97.62	3,216.3	1,353.1	535.8	417.4	118.40	4.526		
10,900.0	7,429.0	11,018.3	7,500.0	70.0	65.9	-97.67	3,316.3	1,353.1	532.4	410.6	121.77	4.372		
11,000.0	7,429.0	11,118.2	7,500.0	71.4	67.5	-97.72	3,416.2	1,353.1	528.9	403.8	125.16	4.226		
11,100.0	7,429.0	11,218.2	7,500.0	72.9	69.1	-97.77	3,516.2	1,353.1	525.5	396.9	128.54	4.088		
11,200.0	7,429.0	11,318.1	7,500.0	74.4	70.8	-97.82	3,616.1	1,353.1	522.0	390.1	131.93	3.957		
11,300.0	7,429.0	11,418.1	7,500.0	75.9	72.4	-97.87	3,716.0	1,353.1	518.6	383.2	135.32	3.832		
11,400.0	7,429.0	11,518.0	7,500.0	77.4	74.0	-97.93	3,816.0	1,353.1	515.1	376.4	138.71	3.713		
11,500.0	7,429.0	11,617.9	7,500.0	79.0	75.6	-97.98	3,915.9	1,353.1	511.6	369.5	142.11	3.600		
11,600.0	7,429.0	11,717.9	7,500.0	80.5	77.3	-98.04	4,015.9	1,353.1	508.2	362.7	145.50	3.493		
11,700.0	7,429.0	11,817.8	7,500.0	82.1	78.9	-98.09	4,115.8	1,353.1	504.7	355.8	148.90	3.390		
11,800.0	7,429.0	11,917.8	7,500.0	83.6	80.5	-98.15	4,215.7	1,353.1	501.3	349.0	152.30	3.291		
11,834.9	7,429.0	11,952.6	7,500.0	84.2	81.1	-98.17	4,250.6	1,353.1	500.1	346.6	153.49	3.258 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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	-90.26	0.0	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-90.26	0.0	-10.1	10.1	9.8	0.30	33.948		
200.0	200.0	200.0	200.0	0.3	0.3	-90.26	0.0	-10.1	10.1	9.4	0.65	15.598 CC, ES		
300.0	300.0	300.1	300.1	0.5	0.5	174.43	-0.1	-9.9	10.7	9.7	0.99	10.784		
400.0	400.0	400.3	400.3	0.7	0.7	173.45	-0.6	-8.2	11.6	10.3	1.34	8.664		
500.0	499.9	500.5	500.4	0.9	0.9	171.33	-1.5	-4.8	12.6	10.9	1.69	7.453		
600.0	599.7	600.7	600.5	1.1	1.0	168.34	-2.8	0.3	13.7	11.7	2.05	6.692		
700.0	699.4	700.9	700.4	1.3	1.3	164.74	-4.6	7.1	14.9	12.5	2.41	6.188		
800.0	798.9	801.1	800.3	1.5	1.5	160.74	-6.9	15.5	16.3	13.5	2.78	5.845		
900.0	898.3	901.4	900.0	1.8	1.7	156.55	-9.6	25.7	17.8	14.6	3.18	5.604		
1,000.0	997.4	1,001.6	999.4	2.0	2.0	152.31	-12.7	37.5	19.6	16.0	3.61	5.427		
1,100.0	1,096.3	1,101.8	1,098.7	2.3	2.3	148.18	-16.3	51.0	21.6	17.5	4.09	5.289		
1,200.0	1,194.9	1,202.1	1,197.7	2.7	2.6	144.23	-20.4	66.2	23.9	19.3	4.62	5.175		
1,300.0	1,293.3	1,302.4	1,296.4	3.0	2.9	140.53	-24.9	83.0	26.5	21.3	5.22	5.077		
1,400.0	1,391.2	1,402.6	1,394.9	3.4	3.3	137.12	-29.8	101.6	29.4	23.5	5.89	4.990		
1,500.0	1,488.9	1,502.9	1,492.9	3.8	3.7	133.99	-35.2	121.8	32.6	26.0	6.63	4.913		
1,600.0	1,586.1	1,603.1	1,590.6	4.2	4.1	131.15	-41.0	143.6	36.1	28.6	7.45	4.845		
1,700.0	1,682.9	1,703.0	1,687.7	4.7	4.5	129.65	-47.0	166.2	40.3	32.1	8.26	4.881		
1,800.0	1,779.3	1,802.9	1,784.8	5.2	5.0	130.14	-53.1	188.8	45.7	36.7	9.00	5.072		
1,900.0	1,875.2	1,902.7	1,881.8	5.8	5.4	131.97	-59.1	211.3	52.2	42.5	9.67	5.395		
1,960.5	1,933.0	1,963.0	1,940.5	6.1	5.7	133.49	-62.7	225.0	56.7	46.7	10.03	5.652		
2,000.0	1,970.6	2,002.3	1,978.7	6.3	5.8	134.52	-65.1	233.9	59.8	49.6	10.26	5.833		
2,100.0	2,065.9	2,102.0	2,075.6	6.9	6.3	136.70	-71.1	256.4	67.8	57.0	10.83	6.261		
2,200.0	2,161.2	2,201.6	2,172.5	7.4	6.7	138.42	-77.1	278.9	75.9	64.5	11.41	6.650		
2,300.0	2,256.5	2,301.3	2,269.4	8.0	7.2	139.80	-83.1	301.5	84.0	72.0	11.99	7.004		
2,400.0	2,351.8	2,400.9	2,366.2	8.5	7.6	140.95	-89.1	324.0	92.1	79.6	12.58	7.327		
2,500.0	2,447.2	2,500.6	2,463.1	9.1	8.0	141.90	-95.1	346.5	100.3	87.2	13.17	7.621		
2,600.0	2,542.5	2,600.2	2,560.0	9.7	8.5	142.72	-101.1	369.1	108.5	94.8	13.76	7.890		
2,700.0	2,637.8	2,699.9	2,656.9	10.3	8.9	143.41	-107.1	391.6	116.8	102.4	14.35	8.137		
2,800.0	2,733.1	2,799.5	2,753.8	10.8	9.4	144.02	-113.1	414.2	125.0	110.1	14.95	8.365		
2,900.0	2,828.4	2,899.2	2,850.7	11.4	9.8	144.55	-119.2	436.7	133.3	117.7	15.54	8.574		
3,000.0	2,923.7	2,998.8	2,947.5	12.0	10.3	145.02	-125.2	459.2	141.5	125.4	16.14	8.769		
3,100.0	3,019.1	3,098.5	3,044.4	12.5	10.7	145.44	-131.2	481.8	149.8	133.1	16.74	8.949		
3,200.0	3,114.4	3,198.1	3,141.3	13.1	11.2	145.81	-137.2	504.3	158.1	140.8	17.34	9.116		
3,300.0	3,209.7	3,297.8	3,238.2	13.7	11.6	146.15	-143.2	526.8	166.4	148.4	17.94	9.273		
3,400.0	3,305.0	3,397.4	3,335.1	14.3	12.1	146.45	-149.2	549.4	174.7	156.1	18.55	9.418		
3,500.0	3,400.3	3,497.1	3,432.0	14.8	12.5	146.73	-155.2	571.9	183.0	163.8	19.15	9.555		
3,600.0	3,495.6	3,596.8	3,528.8	15.4	13.0	146.98	-161.2	594.4	191.3	171.5	19.75	9.683		
3,700.0	3,591.0	3,696.4	3,625.7	16.0	13.4	147.21	-167.2	617.0	199.6	179.2	20.36	9.804		
3,800.0	3,686.3	3,796.1	3,722.6	16.6	13.9	147.42	-173.2	639.5	207.9	186.9	20.96	9.917		
3,900.0	3,781.6	3,895.7	3,819.5	17.1	14.3	147.62	-179.2	662.0	216.2	194.6	21.57	10.024		
4,000.0	3,876.9	3,995.4	3,916.4	17.7	14.8	147.80	-185.2	684.6	224.5	202.3	22.18	10.125		
4,100.0	3,972.2	4,095.0	4,013.3	18.3	15.2	147.97	-191.2	707.1	232.8	210.1	22.78	10.220		
4,200.0	4,067.5	4,194.7	4,110.1	18.9	15.7	148.13	-197.3	729.6	241.2	217.8	23.39	10.311		
4,300.0	4,162.9	4,294.3	4,207.0	19.4	16.1	148.28	-203.3	752.2	249.5	225.5	24.00	10.397		
4,400.0	4,258.2	4,394.0	4,303.9	20.0	16.6	148.41	-209.3	774.7	257.8	233.2	24.60	10.478		
4,500.0	4,353.5	4,493.6	4,400.8	20.6	17.0	148.54	-215.3	797.2	266.1	240.9	25.21	10.556		
4,600.0	4,448.8	4,593.3	4,497.7	21.2	17.5	148.66	-221.3	819.8	274.4	248.6	25.82	10.629		
4,700.0	4,544.1	4,692.9	4,594.6	21.7	17.9	148.78	-227.3	842.3	282.8	256.3	26.43	10.700		
4,800.0	4,639.4	4,792.6	4,691.4	22.3	18.4	148.89	-233.3	864.9	291.1	264.1	27.04	10.767		
4,900.0	4,734.7	4,892.2	4,788.3	22.9	18.8	148.99	-239.3	887.4	299.4	271.8	27.64	10.831		
5,000.0	4,830.1	4,991.9	4,885.2	23.5	19.3	149.08	-245.3	909.9	307.7	279.5	28.25	10.893		

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 4W-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 4W-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		
5,100.0	4,925.4	5,091.5	4,982.1	24.0	19.7	149.17	-251.3	932.5	316.1	287.2	28.86	10.951		
5,200.0	5,020.7	5,191.2	5,079.0	24.6	20.2	149.26	-257.3	955.0	324.4	294.9	29.47	11.008		
5,300.0	5,116.0	5,290.8	5,175.9	25.2	20.6	149.34	-263.3	977.5	332.7	302.7	30.08	11.062		
5,400.0	5,211.3	5,390.5	5,272.7	25.8	21.1	149.42	-269.4	1,000.1	341.1	310.4	30.69	11.113		
5,500.0	5,306.6	5,490.1	5,369.6	26.3	21.5	149.49	-275.4	1,022.6	349.4	318.1	31.30	11.163		
5,600.0	5,402.0	5,589.8	5,466.5	26.9	22.0	149.57	-281.4	1,045.1	357.7	325.8	31.91	11.211		
5,700.0	5,497.3	5,689.4	5,563.4	27.5	22.4	149.63	-287.4	1,067.7	366.1	333.5	32.52	11.257		
5,800.0	5,592.6	5,789.1	5,660.3	28.1	22.9	149.70	-293.4	1,090.2	374.4	341.3	33.13	11.301		
5,900.0	5,687.9	5,888.7	5,757.2	28.7	23.3	149.76	-299.4	1,112.7	382.7	349.0	33.74	11.344		
6,000.0	5,783.2	5,988.4	5,854.1	29.2	23.8	149.82	-305.4	1,135.3	391.1	356.7	34.35	11.385		
6,100.0	5,878.5	6,088.0	5,950.9	29.8	24.2	149.88	-311.4	1,157.8	399.4	364.4	34.96	11.425		
6,200.0	5,973.9	6,187.7	6,047.8	30.4	24.7	149.93	-317.4	1,180.3	407.7	372.2	35.57	11.463		
6,300.0	6,069.2	6,287.3	6,144.7	31.0	25.1	149.98	-323.4	1,202.9	416.1	379.9	36.18	11.500		
6,400.0	6,164.5	6,387.0	6,241.6	31.5	25.6	150.03	-329.4	1,225.4	424.4	387.6	36.79	11.536		
6,500.0	6,259.8	6,486.6	6,338.5	32.1	26.0	150.08	-335.4	1,247.9	432.7	395.3	37.40	11.571		
6,600.0	6,355.1	6,586.3	6,435.4	32.7	26.5	150.13	-341.4	1,270.5	441.1	403.1	38.01	11.604		
6,700.0	6,450.4	6,685.9	6,532.2	33.3	26.9	150.17	-347.5	1,293.0	449.4	410.8	38.62	11.636		
6,800.0	6,545.8	6,785.6	6,629.1	33.9	27.4	150.21	-353.5	1,315.6	457.7	418.5	39.23	11.668		
6,900.0	6,641.1	6,885.2	6,726.0	34.4	27.8	150.26	-359.5	1,338.1	466.1	426.2	39.84	11.698		
6,981.7	6,719.0	6,983.7	6,821.8	34.9	28.3	150.60	-362.6	1,360.4	472.1	431.9	40.14	11.760		
7,000.0	6,736.4	7,008.6	6,846.0	35.0	28.4	155.53	-361.5	1,366.0	472.9	432.8	40.04	11.809		
7,050.0	6,784.1	7,076.2	6,911.4	35.3	28.6	169.11	-354.1	1,381.2	474.8	435.3	39.50	12.021		
7,100.0	6,831.6	7,143.1	6,975.2	35.6	28.8	-178.15	-340.6	1,396.1	476.1	437.5	38.61	12.332		
7,150.0	6,878.6	7,209.1	7,036.7	35.8	29.0	-167.00	-321.3	1,410.4	477.0	439.6	37.43	12.744		
7,200.0	6,925.1	7,274.1	7,095.3	36.1	29.2	-157.60	-296.7	1,424.0	477.5	441.5	36.03	13.253		
7,250.0	6,970.6	7,338.1	7,150.6	36.3	29.4	-149.78	-267.3	1,436.8	477.6	443.1	34.48	13.849		
7,300.0	7,015.1	7,400.8	7,202.1	36.5	29.5	-143.23	-233.7	1,448.8	477.3	444.4	32.88	14.515		
7,350.0	7,058.2	7,462.3	7,249.7	36.8	29.6	-137.66	-196.3	1,459.9	476.8	445.5	31.32	15.226		
7,400.0	7,099.8	7,522.5	7,293.1	37.0	29.8	-132.85	-155.8	1,470.0	476.1	446.3	29.88	15.936		
7,450.0	7,139.7	7,581.4	7,332.1	37.2	29.9	-128.63	-112.7	1,479.1	475.3	446.6	28.66	16.586		
7,500.0	7,177.7	7,639.0	7,366.9	37.4	30.0	-124.85	-67.5	1,487.2	474.4	446.7	27.72	17.111		
7,550.0	7,213.6	7,695.3	7,397.4	37.6	30.2	-121.43	-20.7	1,494.2	473.4	446.3	27.12	17.457		
7,600.0	7,247.2	7,750.4	7,423.6	37.8	30.3	-118.31	27.4	1,500.3	472.5	445.6	26.88	17.579		
7,650.0	7,278.3	7,804.3	7,445.7	38.0	30.4	-115.43	76.2	1,505.5	471.5	444.6	26.96	17.490		
7,700.0	7,306.9	7,857.0	7,463.8	38.2	30.6	-112.76	125.5	1,509.7	470.7	443.4	27.33	17.223		
7,750.0	7,332.7	7,908.6	7,478.0	38.4	30.8	-110.26	175.0	1,513.0	469.9	442.0	27.92	16.832		
7,800.0	7,355.7	7,959.2	7,488.6	38.6	30.9	-107.93	224.4	1,515.5	469.2	440.6	28.66	16.373		
7,850.0	7,375.7	8,008.7	7,495.6	38.8	31.1	-105.75	273.4	1,517.1	468.7	439.2	29.49	15.894		
7,900.0	7,392.6	8,057.4	7,499.3	39.0	31.3	-103.71	321.9	1,518.0	468.2	437.9	30.34	15.431		
7,950.0	7,406.4	8,105.4	7,500.0	39.2	31.5	-101.81	369.9	1,518.1	467.9	436.7	31.20	14.996		
8,000.0	7,416.9	8,154.2	7,500.0	39.4	31.7	-100.30	418.7	1,518.1	467.5	435.3	32.14	14.546		
8,050.0	7,424.2	8,203.7	7,500.0	39.6	32.0	-99.29	468.2	1,518.1	466.8	433.7	33.12	14.094		
8,100.0	7,428.2	8,253.5	7,500.0	39.8	32.3	-98.81	518.0	1,518.1	465.7	431.5	34.19	13.619		
8,134.9	7,429.0	8,288.4	7,500.0	39.9	32.5	-98.80	552.9	1,518.1	464.6	429.6	34.96	13.290		
8,200.0	7,429.0	8,353.4	7,500.0	40.2	32.9	-98.84	617.9	1,518.1	462.3	425.9	36.47	12.678		
8,300.0	7,429.0	8,453.4	7,500.0	40.7	33.6	-98.91	717.9	1,518.1	458.9	420.0	38.92	11.791		
8,400.0	7,429.0	8,553.3	7,500.0	41.3	34.3	-98.97	817.8	1,518.1	455.4	413.9	41.51	10.971		
8,500.0	7,429.0	8,653.2	7,500.0	41.9	35.2	-99.04	917.7	1,518.1	452.0	407.8	44.23	10.220		
8,600.0	7,429.0	8,753.2	7,500.0	42.6	36.1	-99.11	1,017.7	1,518.1	448.6	401.5	47.03	9.537		
8,700.0	7,429.0	8,853.1	7,500.0	43.4	37.0	-99.18	1,117.6	1,518.1	445.1	395.2	49.92	8.916		
8,800.0	7,429.0	8,953.1	7,500.0	44.2	38.1	-99.26	1,217.6	1,518.1	441.7	388.8	52.88	8.352		
8,900.0	7,429.0	9,053.0	7,500.0	45.1	39.1	-99.33	1,317.5	1,518.1	438.2	382.3	55.89	7.840		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4W-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 4W-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		
9,000.0	7,429.0	9,152.9	7,500.0	46.0	40.3	-99.40	1,417.4	1,518.1	434.8	375.8	58.95	7.375		
9,100.0	7,429.0	9,252.9	7,500.0	47.0	41.4	-99.48	1,517.4	1,518.1	431.3	369.3	62.05	6.951		
9,200.0	7,429.0	9,352.8	7,500.0	48.0	42.6	-99.56	1,617.3	1,518.1	427.9	362.7	65.18	6.565		
9,300.0	7,429.0	9,452.8	7,500.0	49.0	43.9	-99.64	1,717.3	1,518.1	424.4	356.1	68.34	6.211		
9,400.0	7,429.0	9,552.7	7,500.0	50.1	45.2	-99.71	1,817.2	1,518.1	421.0	349.5	71.53	5.886		
9,500.0	7,429.0	9,652.6	7,500.0	51.3	46.5	-99.80	1,917.1	1,518.1	417.6	342.8	74.73	5.587		
9,600.0	7,429.0	9,752.6	7,500.0	52.4	47.8	-99.88	2,017.1	1,518.1	414.1	336.2	77.96	5.312		
9,700.0	7,429.0	9,852.5	7,500.0	53.6	49.2	-99.96	2,117.0	1,518.1	410.7	329.5	81.20	5.058		
9,800.0	7,429.0	9,952.5	7,500.0	54.9	50.6	-100.05	2,217.0	1,518.1	407.3	322.8	84.45	4.822		
9,900.0	7,429.0	10,052.4	7,500.0	56.1	52.0	-100.13	2,316.9	1,518.1	403.8	316.1	87.72	4.604		
10,000.0	7,429.0	10,152.3	7,500.0	57.4	53.4	-100.22	2,416.8	1,518.1	400.4	309.4	91.00	4.400		
10,100.0	7,429.0	10,252.3	7,500.0	58.7	54.9	-100.31	2,516.8	1,518.1	396.9	302.7	94.28	4.210		
10,200.0	7,429.0	10,352.2	7,500.0	60.1	56.3	-100.40	2,616.7	1,518.1	393.5	295.9	97.57	4.033		
10,300.0	7,429.0	10,452.1	7,500.0	61.4	57.8	-100.49	2,716.6	1,518.1	390.1	289.2	100.87	3.867		
10,400.0	7,429.0	10,552.1	7,500.0	62.8	59.3	-100.59	2,816.6	1,518.1	386.7	282.5	104.17	3.712		
10,500.0	7,429.0	10,652.0	7,500.0	64.2	60.8	-100.68	2,916.5	1,518.1	383.2	275.7	107.48	3.565		
10,600.0	7,429.0	10,752.0	7,500.0	65.6	62.4	-100.78	3,016.5	1,518.1	379.8	269.0	110.79	3.428		
10,700.0	7,429.0	10,851.9	7,500.0	67.0	63.9	-100.88	3,116.4	1,518.1	376.4	262.3	114.11	3.298		
10,800.0	7,429.0	10,951.8	7,500.0	68.5	65.5	-100.98	3,216.3	1,518.1	372.9	255.5	117.43	3.176		
10,900.0	7,429.0	11,051.8	7,500.0	70.0	67.0	-101.08	3,316.3	1,518.1	369.5	248.8	120.75	3.060		
11,000.0	7,429.0	11,151.7	7,500.0	71.4	68.6	-101.19	3,416.2	1,518.1	366.1	242.0	124.07	2.951		
11,100.0	7,429.0	11,251.7	7,500.0	72.9	70.2	-101.30	3,516.2	1,518.1	362.7	235.3	127.39	2.847		
11,200.0	7,429.0	11,351.6	7,500.0	74.4	71.8	-101.41	3,616.1	1,518.1	359.2	228.5	130.71	2.748		
11,300.0	7,429.0	11,451.5	7,500.0	75.9	73.3	-101.52	3,716.0	1,518.1	355.8	221.8	134.03	2.655		
11,400.0	7,429.0	11,551.5	7,500.0	77.4	74.9	-101.63	3,816.0	1,518.1	352.4	215.1	137.35	2.566		
11,500.0	7,429.0	11,651.4	7,500.0	79.0	76.6	-101.75	3,915.9	1,518.1	349.0	208.3	140.67	2.481		
11,600.0	7,429.0	11,751.4	7,500.0	80.5	78.2	-101.86	4,015.9	1,518.1	345.6	201.6	143.99	2.400		
11,700.0	7,429.0	11,851.3	7,500.0	82.1	79.8	-101.98	4,115.8	1,518.1	342.2	194.9	147.30	2.323		
11,800.0	7,429.0	11,951.2	7,500.0	83.6	81.4	-102.11	4,215.7	1,518.1	338.7	188.1	150.62	2.249		
11,834.9	7,429.0	11,986.1	7,500.0	84.2	82.0	-102.15	4,250.6	1,518.1	337.6	185.8	151.77	2.224 SF		

Anticollision Report

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

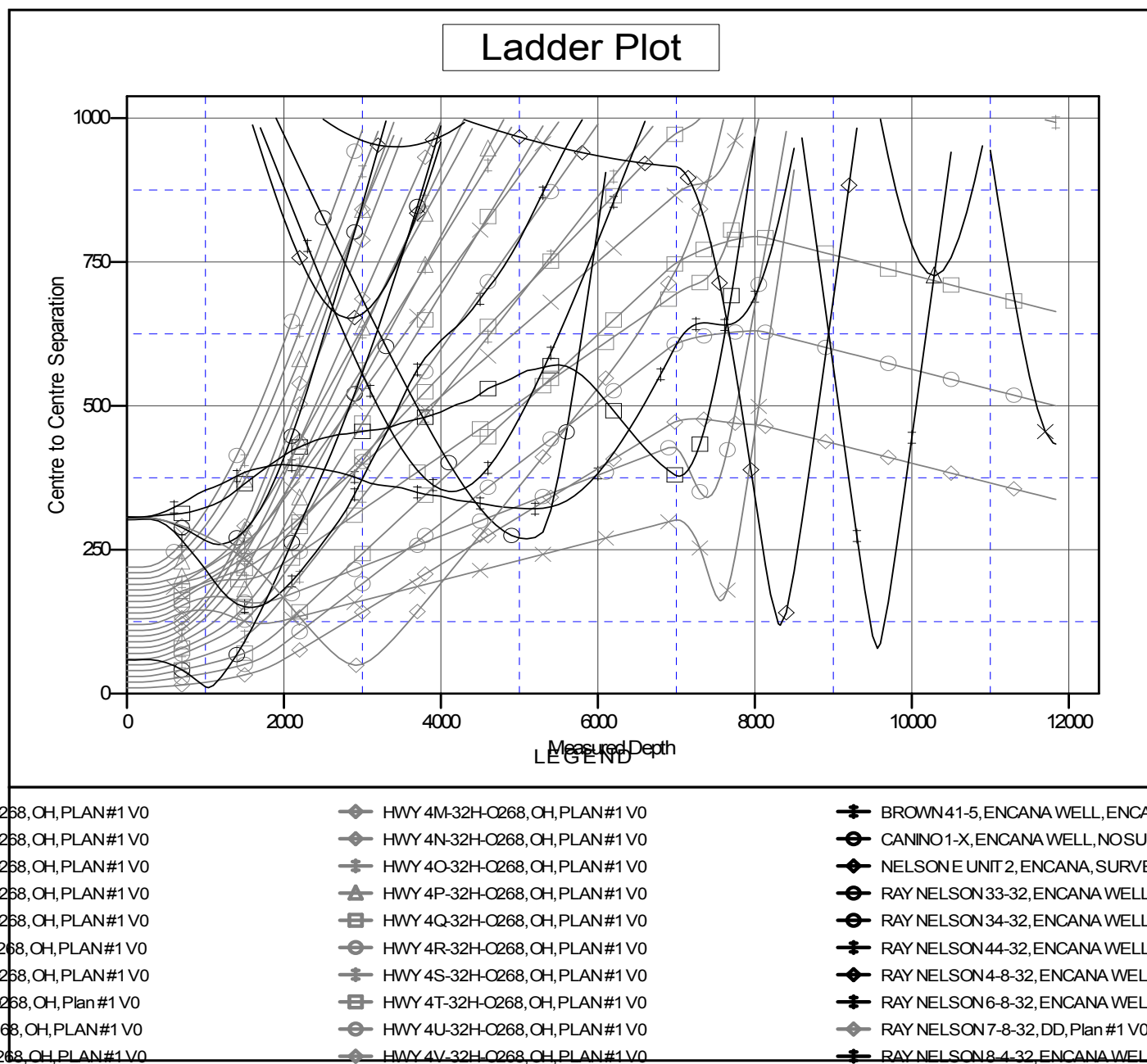
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



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