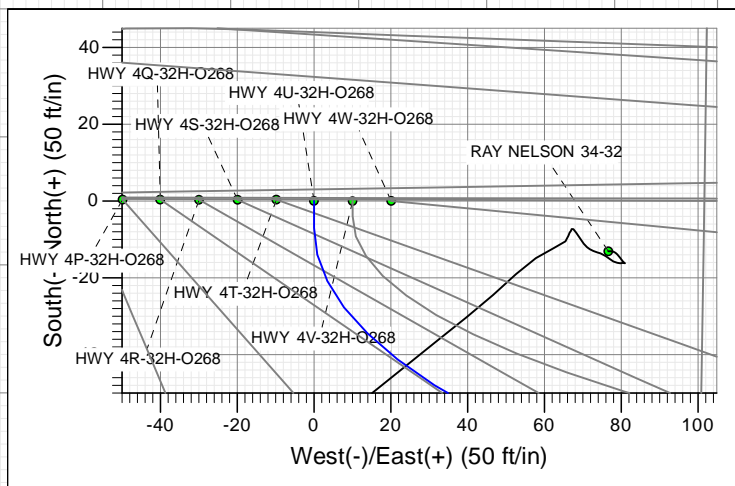
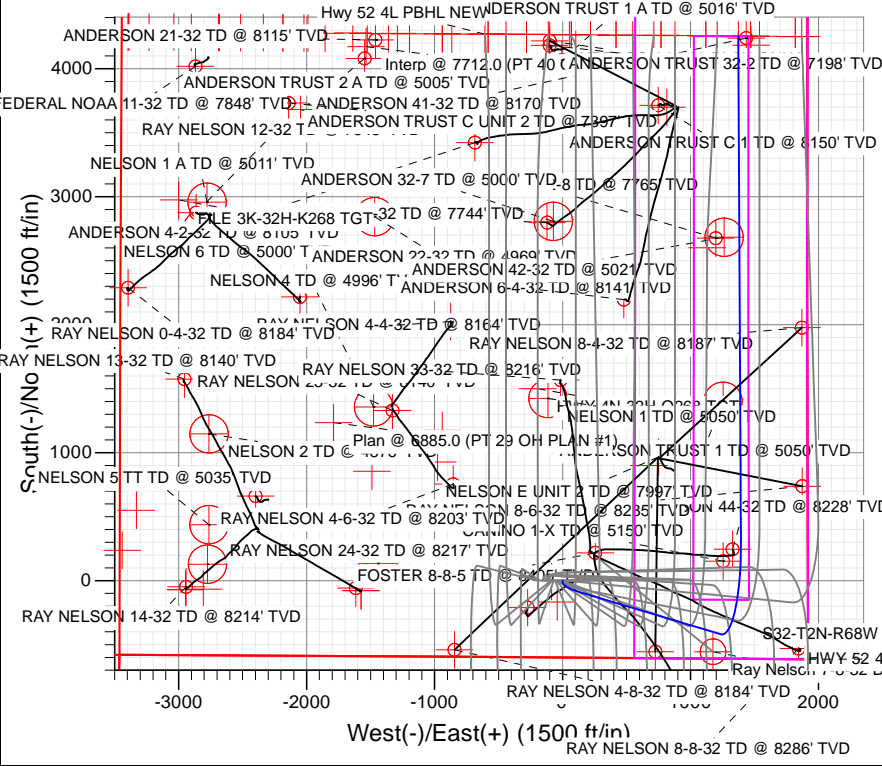
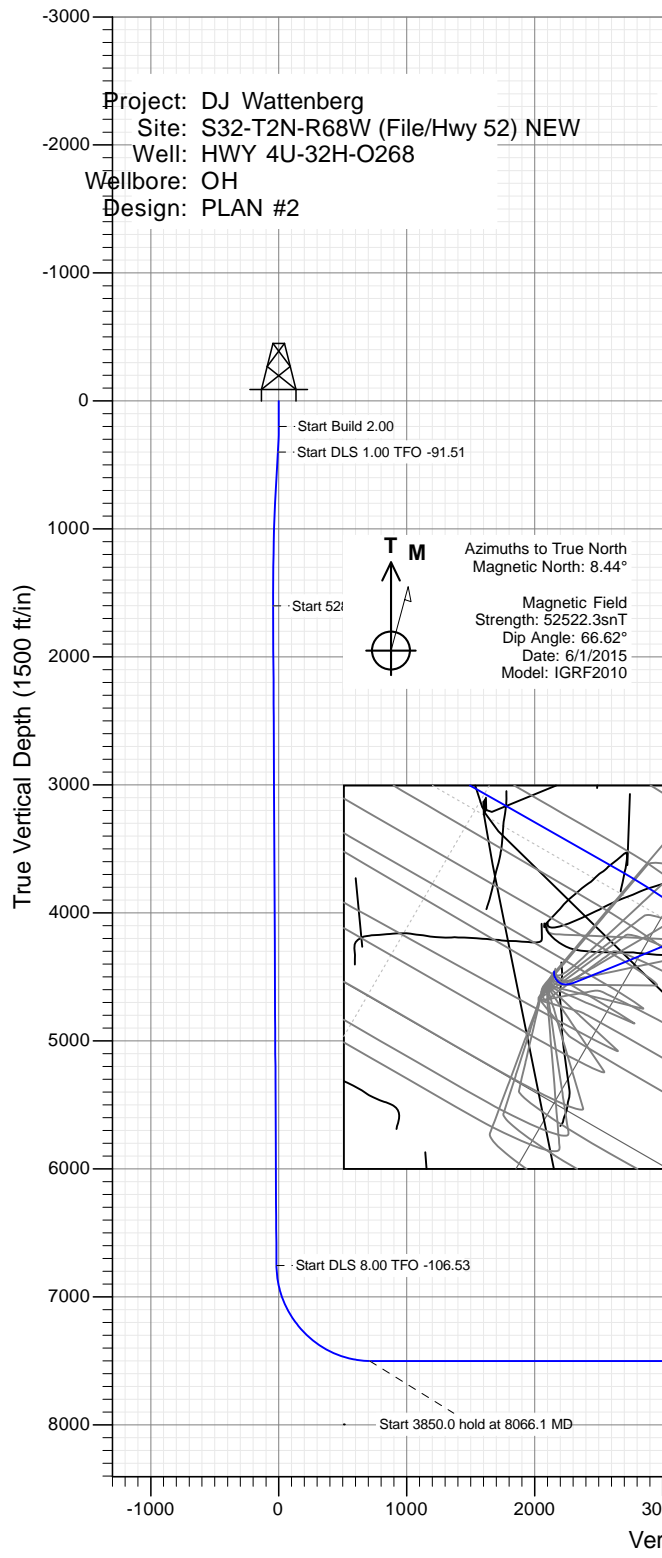




SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	400.0	4.00	180.00	399.8	-7.0	0.0	2.00	180.00	-6.6	
4	1612.6	12.66	106.62	1600.7	-87.6	127.8	1.00	-91.51	-44.1	
5	6895.4	12.66	106.62	6755.1	-418.6	1237.1	0.00	0.00	-18.4	
6	8066.1	90.00	359.70	7500.0	297.0	1393.4	8.00	-106.53	710.6	
7	11916.1	90.00	359.70	7500.0	4146.9	1373.3	0.00	0.00	4368.2	Interp @ 7500.0 (HWY 4U-32H-O268 OH PLAN #1)
8	11952.1	90.00	0.06	7500.0	4182.9	1373.2	1.00	90.00	4402.5	
9	12023.9	90.00	0.06	7500.0	4254.7	1373.3	0.00	0.00	4470.8	HWY 4U PBHL NEW



WELL DETAILS: HWY 4U-32H-O268

Ground Level: 4988.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1275755.05	3133024.26	40.089353	-105.024571

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4U-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 4U-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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 4U-32H-O268						
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.05 ft	Latitude:	40.089353
	+E/-W	0.0 ft	Easting:	3,133,024.26 ft	Longitude:	-105.024571
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 #2				
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	17.89

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	
400.0	4.00	180.00	399.8	-7.0	0.0	2.00	2.00	0.00	180.00	
1,612.6	12.66	106.62	1,600.7	-87.6	127.8	1.00	0.71	-6.05	-91.51	
6,895.4	12.66	106.62	6,755.1	-418.6	1,237.1	0.00	0.00	0.00	0.00	
8,066.1	90.00	359.70	7,500.0	297.0	1,393.4	8.00	6.61	-9.13	-106.53	
11,916.1	90.00	359.70	7,500.0	4,146.9	1,373.3	0.00	0.00	0.00	0.00	Interp @ 7500.0 (HW)
11,952.1	90.00	0.06	7,500.0	4,182.9	1,373.2	1.00	0.00	1.00	90.00	
12,023.9	90.00	0.06	7,500.0	4,254.7	1,373.3	0.00	0.00	0.00	0.00	HWY 4U PBHL NEW

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4U-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 4U-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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 2.00
300.0	2.00	180.00	300.0	-1.7	0.0	-1.7	2.00	2.00	
400.0	4.00	180.00	399.8	-7.0	0.0	-6.6	2.00	2.00	Start DLS 1.00 TFO -91.51
500.0	4.10	165.87	499.6	-13.9	0.9	-13.0	1.00	0.10	
600.0	4.42	153.11	599.3	-20.8	3.5	-18.8	1.00	0.33	
700.0	4.93	142.54	699.0	-27.7	7.8	-23.9	1.00	0.51	
800.0	5.58	134.17	798.6	-34.5	14.0	-28.5	1.00	0.64	
900.0	6.32	127.64	898.0	-41.2	21.8	-32.5	1.00	0.74	
1,000.0	7.12	122.52	997.3	-47.9	31.4	-36.0	1.00	0.80	
1,100.0	7.96	118.46	1,096.5	-54.6	42.7	-38.8	1.00	0.85	
1,200.0	8.84	115.18	1,195.4	-61.1	55.7	-41.1	1.00	0.88	
1,300.0	9.75	112.50	1,294.1	-67.6	70.5	-42.7	1.00	0.90	
1,400.0	10.66	110.27	1,392.5	-74.1	87.0	-43.8	1.00	0.92	
1,500.0	11.60	108.40	1,490.6	-80.5	105.2	-44.3	1.00	0.93	
1,600.0	12.54	106.80	1,588.4	-86.8	125.2	-44.1	1.00	0.94	
1,612.6	12.66	106.62	1,600.7	-87.6	127.8	-44.1	1.00	0.95	Start 5282.9 hold at 1612.6 MD
1,700.0	12.66	106.62	1,686.0	-93.0	146.1	-43.7	0.00	0.00	
1,800.0	12.66	106.62	1,783.6	-99.3	167.1	-43.2	0.00	0.00	
1,900.0	12.66	106.62	1,881.1	-105.6	188.1	-42.7	0.00	0.00	
2,000.0	12.66	106.62	1,978.7	-111.8	209.1	-42.2	0.00	0.00	
2,100.0	12.66	106.62	2,076.3	-118.1	230.1	-41.7	0.00	0.00	
2,200.0	12.66	106.62	2,173.8	-124.4	251.1	-41.2	0.00	0.00	
2,300.0	12.66	106.62	2,271.4	-130.6	272.1	-40.7	0.00	0.00	
2,400.0	12.66	106.62	2,369.0	-136.9	293.1	-40.3	0.00	0.00	
2,500.0	12.66	106.62	2,466.5	-143.2	314.1	-39.8	0.00	0.00	
2,600.0	12.66	106.62	2,564.1	-149.4	335.1	-39.3	0.00	0.00	
2,700.0	12.66	106.62	2,661.7	-155.7	356.1	-38.8	0.00	0.00	
2,800.0	12.66	106.62	2,759.2	-162.0	377.1	-38.3	0.00	0.00	
2,900.0	12.66	106.62	2,856.8	-168.2	398.1	-37.8	0.00	0.00	
3,000.0	12.66	106.62	2,954.4	-174.5	419.1	-37.3	0.00	0.00	
3,100.0	12.66	106.62	3,052.0	-180.8	440.1	-36.8	0.00	0.00	
3,200.0	12.66	106.62	3,149.5	-187.0	461.1	-36.4	0.00	0.00	
3,300.0	12.66	106.62	3,247.1	-193.3	482.1	-35.9	0.00	0.00	
3,400.0	12.66	106.62	3,344.7	-199.6	503.1	-35.4	0.00	0.00	
3,500.0	12.66	106.62	3,442.2	-205.8	524.1	-34.9	0.00	0.00	
3,600.0	12.66	106.62	3,539.8	-212.1	545.1	-34.4	0.00	0.00	
3,700.0	12.66	106.62	3,637.4	-218.4	566.1	-33.9	0.00	0.00	
3,800.0	12.66	106.62	3,734.9	-224.6	587.1	-33.4	0.00	0.00	
3,900.0	12.66	106.62	3,832.5	-230.9	608.1	-33.0	0.00	0.00	
4,000.0	12.66	106.62	3,930.1	-237.2	629.1	-32.5	0.00	0.00	
4,100.0	12.66	106.62	4,027.7	-243.4	650.1	-32.0	0.00	0.00	
4,200.0	12.66	106.62	4,125.2	-249.7	671.1	-31.5	0.00	0.00	
4,300.0	12.66	106.62	4,222.8	-256.0	692.1	-31.0	0.00	0.00	
4,400.0	12.66	106.62	4,320.4	-262.2	713.1	-30.5	0.00	0.00	
4,500.0	12.66	106.62	4,417.9	-268.5	734.1	-30.0	0.00	0.00	
4,600.0	12.66	106.62	4,515.5	-274.8	755.1	-29.6	0.00	0.00	
4,700.0	12.66	106.62	4,613.1	-281.0	776.1	-29.1	0.00	0.00	
4,800.0	12.66	106.62	4,710.6	-287.3	797.1	-28.6	0.00	0.00	
4,900.0	12.66	106.62	4,808.2	-293.6	818.1	-28.1	0.00	0.00	
5,000.0	12.66	106.62	4,905.8	-299.8	839.1	-27.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4U-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 4U-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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	12.66	106.62	5,003.3	-306.1	860.1	-27.1	0.00	0.00	
5,200.0	12.66	106.62	5,100.9	-312.4	881.1	-26.6	0.00	0.00	
5,300.0	12.66	106.62	5,198.5	-318.6	902.1	-26.1	0.00	0.00	
5,400.0	12.66	106.62	5,296.1	-324.9	923.1	-25.7	0.00	0.00	
5,500.0	12.66	106.62	5,393.6	-331.2	944.1	-25.2	0.00	0.00	
5,600.0	12.66	106.62	5,491.2	-337.4	965.1	-24.7	0.00	0.00	
5,700.0	12.66	106.62	5,588.8	-343.7	986.1	-24.2	0.00	0.00	
5,800.0	12.66	106.62	5,686.3	-350.0	1,007.1	-23.7	0.00	0.00	
5,900.0	12.66	106.62	5,783.9	-356.2	1,028.1	-23.2	0.00	0.00	
6,000.0	12.66	106.62	5,881.5	-362.5	1,049.1	-22.7	0.00	0.00	
6,100.0	12.66	106.62	5,979.0	-368.8	1,070.1	-22.3	0.00	0.00	
6,200.0	12.66	106.62	6,076.6	-375.0	1,091.1	-21.8	0.00	0.00	
6,300.0	12.66	106.62	6,174.2	-381.3	1,112.1	-21.3	0.00	0.00	
6,400.0	12.66	106.62	6,271.7	-387.6	1,133.1	-20.8	0.00	0.00	
6,500.0	12.66	106.62	6,369.3	-393.8	1,154.1	-20.3	0.00	0.00	
6,600.0	12.66	106.62	6,466.9	-400.1	1,175.1	-19.8	0.00	0.00	
6,700.0	12.66	106.62	6,564.5	-406.4	1,196.1	-19.3	0.00	0.00	
6,800.0	12.66	106.62	6,662.0	-412.6	1,217.1	-18.8	0.00	0.00	
6,895.4	12.66	106.62	6,755.1	-418.6	1,237.1	-18.4	0.00	0.00	Start DLS 8.00 TFO -106.53
6,900.0	12.56	105.00	6,759.6	-418.9	1,238.1	-18.3	8.00	-2.17	
7,000.0	13.00	68.29	6,857.3	-417.5	1,259.0	-10.6	8.00	0.44	
7,100.0	17.50	42.67	6,953.8	-402.3	1,279.7	10.2	8.00	4.50	
7,200.0	23.86	28.76	7,047.4	-373.5	1,299.7	43.8	8.00	6.37	
7,300.0	30.96	20.69	7,136.1	-331.6	1,318.5	89.4	8.00	7.10	
7,400.0	38.39	15.43	7,218.3	-277.5	1,335.9	146.2	8.00	7.43	
7,500.0	45.99	11.68	7,292.4	-212.3	1,351.5	213.1	8.00	7.60	
7,600.0	53.68	8.79	7,356.9	-137.1	1,364.9	288.8	8.00	7.69	
7,700.0	61.42	6.42	7,410.5	-53.5	1,376.0	371.7	8.00	7.75	
7,800.0	69.21	4.38	7,452.2	36.9	1,384.5	460.3	8.00	7.78	
7,900.0	77.01	2.54	7,481.2	132.3	1,390.2	552.9	8.00	7.80	
8,000.0	84.83	0.81	7,497.0	230.9	1,393.1	647.7	8.00	7.82	
8,066.1	90.00	359.70	7,500.0	297.0	1,393.4	710.6	8.00	7.82	Start 3850.0 hold at 8066.1 MD
8,100.0	90.00	359.70	7,500.0	330.8	1,393.2	742.8	0.00	0.00	
8,200.0	90.00	359.70	7,500.0	430.8	1,392.7	837.8	0.00	0.00	
8,300.0	90.00	359.70	7,500.0	530.8	1,392.2	932.8	0.00	0.00	
8,400.0	90.00	359.70	7,500.0	630.8	1,391.7	1,027.8	0.00	0.00	
8,500.0	90.00	359.70	7,500.0	730.8	1,391.1	1,122.8	0.00	0.00	
8,600.0	90.00	359.70	7,500.0	830.8	1,390.6	1,217.8	0.00	0.00	
8,700.0	90.00	359.70	7,500.0	930.8	1,390.1	1,312.8	0.00	0.00	
8,800.0	90.00	359.70	7,500.0	1,030.8	1,389.6	1,407.8	0.00	0.00	
8,900.0	90.00	359.70	7,500.0	1,130.8	1,389.0	1,502.8	0.00	0.00	
9,000.0	90.00	359.70	7,500.0	1,230.8	1,388.5	1,597.8	0.00	0.00	
9,100.0	90.00	359.70	7,500.0	1,330.8	1,388.0	1,692.8	0.00	0.00	
9,200.0	90.00	359.70	7,500.0	1,430.8	1,387.5	1,787.8	0.00	0.00	
9,300.0	90.00	359.70	7,500.0	1,530.8	1,387.0	1,882.8	0.00	0.00	
9,400.0	90.00	359.70	7,500.0	1,630.8	1,386.4	1,977.8	0.00	0.00	
9,500.0	90.00	359.70	7,500.0	1,730.8	1,385.9	2,072.8	0.00	0.00	
9,600.0	90.00	359.70	7,500.0	1,830.8	1,385.4	2,167.8	0.00	0.00	
9,700.0	90.00	359.70	7,500.0	1,930.8	1,384.9	2,262.8	0.00	0.00	
9,800.0	90.00	359.70	7,500.0	2,030.8	1,384.3	2,357.8	0.00	0.00	
9,900.0	90.00	359.70	7,500.0	2,130.8	1,383.8	2,452.8	0.00	0.00	
10,000.0	90.00	359.70	7,500.0	2,230.8	1,383.3	2,547.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4U-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 4U-32H-O268	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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	359.70	7,500.0	2,330.8	1,382.8	2,642.9	0.00	0.00	
10,200.0	90.00	359.70	7,500.0	2,430.8	1,382.2	2,737.9	0.00	0.00	
10,300.0	90.00	359.70	7,500.0	2,530.8	1,381.7	2,832.9	0.00	0.00	
10,400.0	90.00	359.70	7,500.0	2,630.8	1,381.2	2,927.9	0.00	0.00	
10,500.0	90.00	359.70	7,500.0	2,730.8	1,380.7	3,022.9	0.00	0.00	
10,600.0	90.00	359.70	7,500.0	2,830.8	1,380.1	3,117.9	0.00	0.00	
10,700.0	90.00	359.70	7,500.0	2,930.8	1,379.6	3,212.9	0.00	0.00	
10,800.0	90.00	359.70	7,500.0	3,030.8	1,379.1	3,307.9	0.00	0.00	
10,900.0	90.00	359.70	7,500.0	3,130.8	1,378.6	3,402.9	0.00	0.00	
11,000.0	90.00	359.70	7,500.0	3,230.8	1,378.1	3,497.9	0.00	0.00	
11,100.0	90.00	359.70	7,500.0	3,330.8	1,377.5	3,592.9	0.00	0.00	
11,200.0	90.00	359.70	7,500.0	3,430.8	1,377.0	3,687.9	0.00	0.00	
11,300.0	90.00	359.70	7,500.0	3,530.8	1,376.5	3,782.9	0.00	0.00	
11,400.0	90.00	359.70	7,500.0	3,630.8	1,376.0	3,877.9	0.00	0.00	
11,500.0	90.00	359.70	7,500.0	3,730.8	1,375.4	3,972.9	0.00	0.00	
11,600.0	90.00	359.70	7,500.0	3,830.8	1,374.9	4,067.9	0.00	0.00	
11,700.0	90.00	359.70	7,500.0	3,930.8	1,374.4	4,162.9	0.00	0.00	
11,800.0	90.00	359.70	7,500.0	4,030.8	1,373.9	4,257.9	0.00	0.00	
11,900.0	90.00	359.70	7,500.0	4,130.8	1,373.3	4,352.9	0.00	0.00	
11,916.1	90.00	359.70	7,500.0	4,146.9	1,373.3	4,368.2	0.00	0.00	Start DLS 1.00 TFO 90.00
11,952.1	90.00	0.06	7,500.0	4,182.9	1,373.2	4,402.5	1.00	0.00	Start 71.8 hold at 11952.1 MD
12,000.0	90.00	0.06	7,500.0	4,230.8	1,373.2	4,448.1	0.00	0.00	
12,023.9	90.00	0.06	7,500.0	4,254.7	1,373.3	4,470.8	0.00	0.00	TD at 12023.9

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
HWY 4U PBHL NEW - hit/miss target - Shape - Point	0.00	0.00	7,500.0	4,254.7	1,373.3	1,280,017.03	3,134,374.69	40.101033	-105.019662
Interp @ 7500.0 (HWY 4) - plan hits target center - Point	0.00	0.00	7,500.0	4,146.9	1,373.3	1,279,909.25	3,134,375.26	40.100737	-105.019662

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 2.00
400.0	399.8	-7.0	0.0	Start DLS 1.00 TFO -91.51
1,612.6	1,600.7	-87.6	127.8	Start 5282.9 hold at 1612.6 MD
6,895.4	6,755.1	-418.6	1,237.1	Start DLS 8.00 TFO -106.53
8,066.1	7,500.0	297.0	1,393.4	Start 3850.0 hold at 8066.1 MD
11,916.1	7,500.0	4,146.9	1,373.3	Start DLS 1.00 TFO 90.00
11,952.1	7,500.0	4,182.9	1,373.2	Start 71.8 hold at 11952.1 MD
12,023.9	7,500.0	4,254.7	1,373.3	TD at 12023.9

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4U-32H-O268

OH

PLAN #2

Anticollision Report

03 November, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Reference	PLAN #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	11/3/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,023.9	PLAN #2 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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)						
ANDERSON 21-32 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON 22-32 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 22-32 AL - ENCANA - NO SURVEYS						Out of range
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	11,986.2	7,551.1	1,473.4	1,380.6	15.880	CC, ES
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	12,023.9	7,551.1	1,474.0	1,381.0	15.837	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,500.0	7,611.0	1,493.8	1,420.0	20.247	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,568.8	7,611.0	1,492.2	1,418.9	20.360	CC, ES
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	12,008.5	7,392.0	61.3	-28.9	0.679	Level 1, CC
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	12,023.9	7,392.0	63.2	-30.8	0.672	Level 1, ES, SF
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,900.0	7,688.0	897.0	824.2	12.321	SF
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,971.7	7,687.9	894.1	822.3	12.444	CC, ES
ANDERSON TRUST 1 - KPK WELL - NO SURVEYS						Out of range
ANDERSON TRUST 1 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 2 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-2 - ENCANA WELL - GYRO	11,954.2	7,200.0	1,493.8	1,406.0	17.018	CC, ES, SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,400.0	7,459.0	190.1	123.2	2.841	SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,446.2	7,459.0	184.4	121.0	2.909	CC, ES
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,400.0	7,437.1	625.3	542.9	7.584	SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,493.3	7,435.8	618.3	537.1	7.613	CC, ES
ANDERSON TRUST C UNIT 2 - ENCANA WELL - GYRO						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	1,713.9	1,687.5	214.6	205.2	22.821	CC, ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	7,000.0	7,077.5	815.3	766.7	16.781	SF
BROWN 5-3 - ENCANA - SURVEYS						Out of range
BROWN 5-5 - ENCANA - SURVEYS						Out of range
BROWN C UNIT 1 - ENCANA WELL - GYRO						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	5,219.0	5,034.0	596.1	569.0	21.996	CC, ES, SF
FEDERAL NOAA 11-32 - ENCANA - SURVEYS						Out of range
FOSTER 33-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 43-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5X - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 8-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER E UNIT 1 - ENCANA WELL - GYRO						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	200.0	159.0	1,427.9	1,427.3	2,377.429	CC, ES
NELSON 1 - TEXAS TEA WELL - NO SURVEYS	1,200.0	1,154.4	1,494.1	1,489.8	347.806	SF
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	200.0	196.0	1,447.4	1,446.8	2,176.064	CC

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 4U-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 4U-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 #2	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 3 - TEXAS TEA WELL - NO SURVEYS	300.0	296.0	1,447.6	1,446.6	1,422.182	ES
NELSON 3 - TEXAS TEA WELL - NO SURVEYS	1,100.0	1,092.5	1,495.9	1,491.9	373.860	SF
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
NELSON 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	8,600.0	7,439.0	642.7	605.3	17.181	SF
NELSON E UNIT 2 - ENCANA - SURVEYS	8,725.8	7,442.7	630.3	594.5	17.604	CC, ES
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	221.5	215.2	320.7	320.0	439.106	CC, ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	9,400.0	7,679.4	1,402.1	1,343.0	23.734	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,218.4	1,205.7	50.6	46.0	10.842	CC, ES
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,300.0	1,285.9	52.5	47.6	10.638	SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	7,996.5	7,619.4	57.7	29.8	2.072	CC, ES, SF
RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 4-6-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,184.6	3,332.9	685.3	659.3	26.431	CC
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,200.0	3,346.1	685.3	659.2	26.267	ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,600.0	3,687.4	718.7	689.3	24.441	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	5,311.9	5,362.3	256.5	227.4	8.799	CC, ES
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	5,600.0	5,638.0	269.8	237.9	8.438	SF
RAY NELSON 7-8-32 - DD - Plan #1	6,802.8	6,782.8	148.1	99.4	3.045	CC, ES
RAY NELSON 7-8-32 - DD - Plan #1	6,900.0	6,877.7	149.6	99.8	3.001	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,743.5	7,657.7	484.3	423.2	7.928	CC
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,800.0	7,657.7	487.6	421.4	7.366	ES
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,900.0	7,657.7	509.0	435.6	6.934	SF
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,505.1	7,567.6	480.8	447.4	14.376	CC, ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,800.0	7,567.6	564.1	516.9	11.951	SF
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	321.4			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	7,800.0	7,745.6	744.3	701.1	17.199	SF
SCHRINER 11-5 - KERR-MCGEE - SURVEYS						Out of range
SCHRINER 12-5 - KERR-MCGEE - SURVEYS						Out of range

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	199.8	199.4	561.155	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	199.8	199.1	307.743	ES
HWY 4A-32H-O268 - OH - PLAN #1	1,400.0	1,368.7	370.2	365.3	75.210	SF
HWY 4B-32H-O268 - OH - PLAN #1	200.0	201.0	190.0	189.3	293.395	CC
HWY 4B-32H-O268 - OH - PLAN #1	300.0	300.0	190.0	189.0	190.276	ES
HWY 4B-32H-O268 - OH - PLAN #1	1,400.0	1,378.5	333.5	328.6	67.657	SF
HWY 4C-32H-O268 - OH - PLAN #1	200.0	201.0	179.9	179.3	277.840	CC
HWY 4C-32H-O268 - OH - PLAN #1	300.0	300.0	179.9	178.9	180.190	ES
HWY 4C-32H-O268 - OH - PLAN #1	1,400.0	1,386.3	302.5	297.5	61.279	SF
HWY 4D-32H-O268 - OH - PLAN #1	200.0	201.0	169.8	169.2	262.284	CC
HWY 4D-32H-O268 - OH - PLAN #1	400.0	400.9	170.0	168.6	124.123	ES
HWY 4D-32H-O268 - OH - PLAN #1	7,600.0	7,462.7	1,141.5	1,114.8	42.764	SF
HWY 4E-32H-O268 - OH - PLAN #1	200.0	201.0	160.0	159.4	247.163	CC
HWY 4E-32H-O268 - OH - PLAN #1	400.0	400.9	160.2	158.9	116.989	ES
HWY 4E-32H-O268 - OH - PLAN #1	7,400.0	7,402.0	928.6	900.8	33.396	SF
HWY 4F-32H-O268 - OH - PLAN #1	116.3	117.3	150.0	149.6	421.911	CC
HWY 4F-32H-O268 - OH - PLAN #1	300.0	300.9	150.0	149.0	149.843	ES
HWY 4F-32H-O268 - OH - PLAN #1	7,700.0	7,511.0	766.2	738.3	27.488	SF
HWY 4G-32H-O268 - OH - PLAN #1	200.0	201.0	139.9	139.2	216.050	CC
HWY 4G-32H-O268 - OH - PLAN #1	400.0	400.8	140.1	138.7	102.294	ES
HWY 4G-32H-O268 - OH - PLAN #1	7,500.0	7,465.5	432.2	402.6	14.609	SF
HWY 4H-32H-O268 - OH - Plan #1	200.0	201.0	129.8	129.2	200.494	CC
HWY 4H-32H-O268 - OH - Plan #1	400.0	400.8	130.1	128.7	94.950	ES
HWY 4H-32H-O268 - OH - Plan #1	7,800.0	7,543.3	355.7	321.9	10.525	SF
HWY 4I-32H-O268 - OH - PLAN #1	7,596.5	7,545.6	119.3	92.3	4.420	CC
HWY 4I-32H-O268 - OH - PLAN #1	7,600.0	7,545.9	119.4	92.1	4.379	ES
HWY 4I-32H-O268 - OH - PLAN #1	7,700.0	7,550.0	157.9	117.8	3.938	SF
HWY 4J-32H-O268 - OH - PLAN #1	200.0	200.0	110.0	109.3	170.274	CC
HWY 4J-32H-O268 - OH - PLAN #1	300.0	300.0	110.0	109.0	110.146	ES
HWY 4J-32H-O268 - OH - PLAN #1	7,400.0	7,602.6	304.0	267.5	8.334	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	99.9	99.2	154.676	CC
HWY 4K-32H-O268 - OH - PLAN #1	300.0	299.9	100.0	99.0	99.767	ES
HWY 4K-32H-O268 - OH - PLAN #1	7,400.0	7,442.0	555.2	508.3	11.850	SF
HWY 4L-32H-O268 - OH - PLAN #1	200.0	200.0	89.8	89.2	139.081	CC
HWY 4L-32H-O268 - OH - PLAN #1	400.0	399.8	90.1	88.8	65.903	ES
HWY 4L-32H-O268 - OH - PLAN #1	1,000.0	994.5	133.3	129.7	37.647	SF
HWY 4M-32H-O268 - OH - PLAN #1	200.0	200.0	80.0	79.4	123.918	CC
HWY 4M-32H-O268 - OH - PLAN #1	400.0	399.8	80.4	79.0	58.776	ES
HWY 4M-32H-O268 - OH - PLAN #1	900.0	897.4	110.4	107.2	34.729	SF
HWY 4N-32H-O268 - OH - PLAN #1	200.0	200.0	69.9	69.3	108.316	CC
HWY 4N-32H-O268 - OH - PLAN #1	400.0	399.8	70.3	69.0	51.421	ES
HWY 4N-32H-O268 - OH - PLAN #1	1,000.0	997.7	111.4	107.9	31.321	SF
HWY 4O-32H-O268 - OH - PLAN #1	200.0	200.0	59.9	59.2	92.719	CC
HWY 4O-32H-O268 - OH - PLAN #1	300.0	300.0	59.9	58.9	59.999	ES
HWY 4O-32H-O268 - OH - PLAN #1	11,924.2	11,629.8	1,271.0	1,119.9	8.413	SF
HWY 4P-32H-O268 - OH - PLAN #1	200.0	200.0	49.8	49.2	77.122	CC
HWY 4P-32H-O268 - OH - PLAN #1	300.0	300.0	49.8	48.8	49.922	ES
HWY 4P-32H-O268 - OH - PLAN #1	12,023.9	11,798.3	1,154.7	1,000.5	7.492	SF
HWY 4Q-32H-O268 - OH - PLAN #1	200.0	200.0	40.0	39.4	61.959	CC
HWY 4Q-32H-O268 - OH - PLAN #1	300.0	300.0	40.1	39.1	40.125	ES
HWY 4Q-32H-O268 - OH - PLAN #1	12,023.9	11,831.4	824.9	670.3	5.337	SF
HWY 4R-32H-O268 - OH - PLAN #1	200.0	200.0	29.9	29.3	46.362	CC
HWY 4R-32H-O268 - OH - PLAN #1	300.0	300.0	30.0	29.0	30.054	ES

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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 4R-32H-O268 - OH - PLAN #1	12,000.0	11,857.5	660.5	504.4	4.231	SF
HWY 4S-32H-O268 - OH - PLAN #1	200.0	200.0	19.9	19.2	30.766	CC
HWY 4S-32H-O268 - OH - PLAN #1	300.0	300.0	20.0	19.0	20.003	ES
HWY 4S-32H-O268 - OH - PLAN #1	12,023.9	11,874.0	495.0	340.0	3.194	SF
HWY 4T-32H-O268 - OH - PLAN #1	200.0	200.0	9.8	9.2	15.176	CC
HWY 4T-32H-O268 - OH - PLAN #1	300.0	300.0	10.0	9.0	10.040	ES
HWY 4T-32H-O268 - OH - PLAN #1	12,000.0	11,890.9	166.0	9.7	1.062	Level 2, SF
HWY 4V-32H-O268 - OH - PLAN #1	200.0	200.0	10.1	9.4	15.597	CC
HWY 4V-32H-O268 - OH - PLAN #1	400.0	400.0	10.5	9.1	7.657	ES
HWY 4V-32H-O268 - OH - PLAN #1	12,023.9	11,939.2	165.0	9.6	1.062	Level 2, SF
HWY 4W-32H-O268 - OH - PLAN #1	200.0	200.0	20.1	19.5	31.195	CC, ES
HWY 4W-32H-O268 - OH - PLAN #1	12,023.9	11,834.9	500.1	346.1	3.247	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 850-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			
11,800.0	7,500.0	7,551.1	7,447.0	77.5	23.6	-90.00	4,217.2	-100.3	1,485.9	1,395.1	90.80	16.364				
11,900.0	7,500.0	7,551.1	7,447.0	79.2	23.6	-90.00	4,217.2	-100.3	1,476.2	1,384.2	91.98	16.049				
11,986.2	7,500.0	7,551.1	7,447.0	80.6	23.6	-90.00	4,217.2	-100.3	1,473.4	1,380.6	92.79	15.880	CC, ES			
12,000.0	7,500.0	7,551.1	7,447.0	80.8	23.6	-90.00	4,217.2	-100.3	1,473.6	1,380.7	92.90	15.863				
12,023.9	7,500.0	7,551.1	7,447.0	81.2	23.6	-90.00	4,217.2	-100.3	1,474.0	1,381.0	93.07	15.837	SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 32-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 71-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,500.0	7,500.0	7,611.0	7,405.9	56.9	27.6	-88.42	2,791.8	-111.3	1,493.8	1,420.0	73.78	20.247 SF		
10,568.8	7,500.0	7,611.0	7,405.9	57.9	27.6	-88.42	2,791.8	-111.3	1,492.2	1,418.9	73.29	20.360 CC, ES		
10,600.0	7,500.0	7,611.0	7,405.9	58.4	27.6	-88.42	2,791.8	-111.3	1,492.6	1,419.5	73.04	20.436		
10,700.0	7,500.0	7,612.4	7,407.4	60.0	27.6	-88.48	2,791.8	-111.4	1,498.0	1,425.9	72.07	20.784		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 41-32 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8170-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,600.0	7,500.0	7,392.0	7,392.0	58.4	12.9	90.00	4,239.2	1,434.5	1,409.4	1,367.5	41.93	33.618		
10,700.0	7,500.0	7,392.0	7,392.0	60.0	12.9	90.00	4,239.2	1,434.5	1,309.5	1,267.7	41.82	31.311		
10,800.0	7,500.0	7,392.0	7,392.0	61.5	12.9	90.00	4,239.2	1,434.5	1,209.7	1,168.0	41.69	29.015		
10,900.0	7,500.0	7,392.0	7,392.0	63.1	12.9	90.00	4,239.2	1,434.5	1,109.8	1,068.3	41.52	26.728		
11,000.0	7,500.0	7,392.0	7,392.0	64.7	12.9	90.00	4,239.2	1,434.5	1,010.0	968.7	41.31	24.451		
11,100.0	7,500.0	7,392.0	7,392.0	66.2	12.9	90.00	4,239.2	1,434.5	910.2	869.2	41.03	22.186		
11,200.0	7,500.0	7,392.0	7,392.0	67.8	12.9	90.00	4,239.2	1,434.5	810.4	769.8	40.66	19.931		
11,300.0	7,500.0	7,392.0	7,392.0	69.4	12.9	90.00	4,239.2	1,434.5	710.8	670.6	40.18	17.689		
11,400.0	7,500.0	7,392.0	7,392.0	71.0	12.9	90.00	4,239.2	1,434.5	611.2	571.7	39.53	15.460		
11,500.0	7,500.0	7,392.0	7,392.0	72.7	12.9	90.00	4,239.2	1,434.5	511.8	473.2	38.64	13.246		
11,600.0	7,500.0	7,392.0	7,392.0	74.3	12.9	90.00	4,239.2	1,434.5	412.7	375.4	37.37	11.045		
11,700.0	7,500.0	7,392.0	7,392.0	75.9	12.9	90.00	4,239.2	1,434.5	314.2	278.7	35.54	8.841		
11,800.0	7,500.0	7,392.0	7,392.0	77.5	12.9	90.00	4,239.2	1,434.5	217.0	183.7	33.36	6.506		
11,900.0	7,500.0	7,392.0	7,392.0	79.2	12.9	90.00	4,239.2	1,434.5	124.5	86.6	37.91	3.283		
12,000.0	7,500.0	7,392.0	7,392.0	80.8	12.9	90.00	4,239.2	1,434.5	61.8	-24.3	86.19	0.718	Level 1	
12,008.5	7,500.0	7,392.0	7,392.0	81.0	12.9	90.00	4,239.2	1,434.5	61.3	-28.9	90.19	0.679	Level 1, CC	
12,023.9	7,500.0	7,392.0	7,392.0	81.2	12.9	90.00	4,239.2	1,434.5	63.2	-30.8	93.96	0.672	Level 1, ES, SF	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 6-4-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 71-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,800.0	7,500.0	7,689.7	7,446.5	34.4	30.4	-89.13	2,197.8	489.4	1,473.9	1,413.9	59.92	24.596		
8,900.0	7,500.0	7,689.5	7,446.3	35.4	30.4	-89.12	2,197.8	489.4	1,395.7	1,334.1	61.54	22.680		
9,000.0	7,500.0	7,689.4	7,446.2	36.5	30.4	-89.11	2,197.8	489.4	1,320.4	1,257.2	63.24	20.881		
9,100.0	7,500.0	7,689.2	7,446.0	37.6	30.4	-89.10	2,197.8	489.4	1,248.7	1,183.7	65.00	19.212		
9,200.0	7,500.0	7,689.0	7,445.9	38.8	30.4	-89.09	2,197.8	489.4	1,181.1	1,114.3	66.79	17.684		
9,300.0	7,500.0	7,688.9	7,445.7	40.0	30.4	-89.08	2,197.8	489.4	1,118.3	1,049.7	68.55	16.313		
9,400.0	7,500.0	7,688.7	7,445.5	41.3	30.4	-89.07	2,197.8	489.4	1,061.3	991.0	70.22	15.114		
9,500.0	7,500.0	7,688.6	7,445.4	42.6	30.4	-89.06	2,197.8	489.5	1,010.9	939.2	71.68	14.103		
9,600.0	7,500.0	7,688.4	7,445.2	43.9	30.4	-89.05	2,197.8	489.5	968.3	895.5	72.80	13.300		
9,700.0	7,500.0	7,688.3	7,445.1	45.2	30.4	-89.04	2,197.8	489.5	934.5	861.0	73.45	12.722		
9,800.0	7,500.0	7,688.1	7,444.9	46.6	30.4	-89.03	2,197.8	489.5	910.4	837.0	73.48	12.390		
9,900.0	7,500.0	7,688.0	7,444.8	48.0	30.4	-89.03	2,197.8	489.5	897.0	824.2	72.80	12.321 SF		
9,971.7	7,500.0	7,687.9	7,444.7	49.0	30.4	-89.02	2,197.8	489.5	894.1	822.3	71.85	12.444 CC, ES		
10,000.0	7,500.0	7,687.8	7,444.6	49.5	30.4	-89.02	2,197.8	489.5	894.6	823.2	71.37	12.534		
10,100.0	7,500.0	7,687.7	7,444.5	50.9	30.4	-89.01	2,197.8	489.5	903.3	834.0	69.26	13.043		
10,200.0	7,500.0	7,687.5	7,444.3	52.4	30.4	-89.00	2,197.8	489.5	922.8	856.2	66.58	13.859		
10,300.0	7,500.0	7,687.4	7,444.2	53.9	30.4	-88.99	2,197.8	489.5	952.5	889.0	63.54	14.990		
10,400.0	7,500.0	7,687.2	7,444.0	55.4	30.4	-88.98	2,197.8	489.5	991.4	931.1	60.33	16.435		
10,500.0	7,500.0	7,687.1	7,443.9	56.9	30.4	-88.97	2,197.8	489.5	1,038.5	981.4	57.11	18.186		
10,600.0	7,500.0	7,686.9	7,443.8	58.4	30.4	-88.96	2,197.8	489.5	1,092.8	1,038.8	54.02	20.228		
10,700.0	7,500.0	7,686.8	7,443.6	60.0	30.4	-88.95	2,197.8	489.5	1,153.2	1,102.1	51.16	22.540		
10,800.0	7,500.0	7,686.7	7,443.5	61.5	30.4	-88.94	2,197.8	489.5	1,218.8	1,170.3	48.58	25.091		
10,900.0	7,500.0	7,686.5	7,443.3	63.1	30.4	-88.93	2,197.8	489.5	1,288.9	1,242.6	46.28	27.848		
11,000.0	7,500.0	7,686.4	7,443.2	64.7	30.4	-88.92	2,197.8	489.5	1,362.7	1,318.4	44.28	30.773		
11,100.0	7,500.0	7,686.2	7,443.1	66.2	30.4	-88.91	2,197.8	489.5	1,439.6	1,397.1	42.56	33.828		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
11,900.0	7,500.0	7,200.0	7,198.1	79.2	12.7	-80.76	4,182.3	-101.2	1,494.9	1,407.2	87.66	17.053			
11,954.2	7,500.0	7,200.0	7,198.1	80.1	12.7	-80.76	4,182.3	-101.2	1,493.8	1,406.0	87.78	17.018	CC, ES, SF		
12,000.0	7,500.0	7,200.0	7,198.1	80.8	12.7	-80.76	4,182.3	-101.2	1,494.7	1,406.8	87.81	17.022			
12,023.9	7,500.0	7,200.0	7,198.1	81.2	12.7	-80.76	4,182.3	-101.2	1,495.6	1,407.9	87.80	17.036			

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 4U-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 4U-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 #2	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			
9,000.0	7,500.0	7,459.0	7,459.0	36.5	13.0	-90.00	2,676.0	1,196.5	1,457.9	1,413.4	44.57	32.711			
9,100.0	7,500.0	7,459.0	7,459.0	37.6	13.0	-90.00	2,676.0	1,196.5	1,358.8	1,313.8	45.00	30.196			
9,200.0	7,500.0	7,459.0	7,459.0	38.8	13.0	-90.00	2,676.0	1,196.5	1,259.8	1,214.3	45.48	27.699			
9,300.0	7,500.0	7,459.0	7,459.0	40.0	13.0	-90.00	2,676.0	1,196.5	1,161.0	1,114.9	46.03	25.223			
9,400.0	7,500.0	7,459.0	7,459.0	41.3	13.0	-90.00	2,676.0	1,196.5	1,062.3	1,015.7	46.66	22.769			
9,500.0	7,500.0	7,459.0	7,459.0	42.6	13.0	-90.00	2,676.0	1,196.5	964.0	916.6	47.40	20.340			
9,600.0	7,500.0	7,459.0	7,459.0	43.9	13.0	-90.00	2,676.0	1,196.5	866.1	817.8	48.27	17.941			
9,700.0	7,500.0	7,459.0	7,459.0	45.2	13.0	-90.00	2,676.0	1,196.5	768.7	719.3	49.34	15.579			
9,800.0	7,500.0	7,459.0	7,459.0	46.6	13.0	-90.00	2,676.0	1,196.5	672.0	621.4	50.67	13.263			
9,900.0	7,500.0	7,459.0	7,459.0	48.0	13.0	-90.00	2,676.0	1,196.5	576.5	524.1	52.37	11.008			
10,000.0	7,500.0	7,459.0	7,459.0	49.5	13.0	-90.00	2,676.0	1,196.5	482.8	428.2	54.62	8.840			
10,100.0	7,500.0	7,459.0	7,459.0	50.9	13.0	-90.00	2,676.0	1,196.5	392.3	334.6	57.64	6.805			
10,200.0	7,500.0	7,459.0	7,459.0	52.4	13.0	-90.00	2,676.0	1,196.5	307.6	245.9	61.69	4.987			
10,300.0	7,500.0	7,459.0	7,459.0	53.9	13.0	-90.00	2,676.0	1,196.5	235.4	169.1	66.24	3.553			
10,400.0	7,500.0	7,459.0	7,459.0	55.4	13.0	-90.00	2,676.0	1,196.5	190.1	123.2	66.92	2.841 SF			
10,446.2	7,500.0	7,459.0	7,459.0	56.1	13.0	-90.00	2,676.0	1,196.5	184.4	121.0	63.39	2.909 CC, ES			
10,500.0	7,500.0	7,459.0	7,459.0	56.9	13.0	-90.00	2,676.0	1,196.5	192.1	135.9	56.19	3.419			
10,600.0	7,500.0	7,459.0	7,459.0	58.4	13.0	-90.00	2,676.0	1,196.5	240.1	198.1	42.02	5.715			
10,700.0	7,500.0	7,459.0	7,459.0	60.0	13.0	-90.00	2,676.0	1,196.5	313.7	279.4	34.28	9.152			
10,800.0	7,500.0	7,459.0	7,459.0	61.5	13.0	-90.00	2,676.0	1,196.5	399.0	367.0	31.95	12.486			
10,900.0	7,500.0	7,459.0	7,459.0	63.1	13.0	-90.00	2,676.0	1,196.5	489.8	457.8	32.02	15.299			
11,000.0	7,500.0	7,459.0	7,459.0	64.7	13.0	-90.00	2,676.0	1,196.5	583.7	550.9	32.80	17.793			
11,100.0	7,500.0	7,459.0	7,459.0	66.2	13.0	-90.00	2,676.0	1,196.5	679.3	645.6	33.72	20.146			
11,200.0	7,500.0	7,459.0	7,459.0	67.8	13.0	-90.00	2,676.0	1,196.5	776.0	741.4	34.58	22.441			
11,300.0	7,500.0	7,459.0	7,459.0	69.4	13.0	-90.00	2,676.0	1,196.5	873.5	838.1	35.35	24.710			
11,400.0	7,500.0	7,459.0	7,459.0	71.0	13.0	-90.00	2,676.0	1,196.5	971.5	935.4	36.03	26.965			
11,500.0	7,500.0	7,459.0	7,459.0	72.7	13.0	-90.00	2,676.0	1,196.5	1,069.8	1,033.2	36.62	29.213			
11,600.0	7,500.0	7,459.0	7,459.0	74.3	13.0	-90.00	2,676.0	1,196.5	1,168.4	1,131.3	37.15	31.454			
11,700.0	7,500.0	7,459.0	7,459.0	75.9	13.0	-90.00	2,676.0	1,196.5	1,267.3	1,229.7	37.62	33.690			
11,800.0	7,500.0	7,459.0	7,459.0	77.5	13.0	-90.00	2,676.0	1,196.5	1,366.3	1,328.3	38.04	35.920			
11,900.0	7,500.0	7,459.0	7,459.0	79.2	13.0	-90.00	2,676.0	1,196.5	1,465.4	1,427.0	38.42	38.144			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST C 1 - ENCANA WELL - GYRO													Offset Well Error:	0.0 ft
Survey Program: 100-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,200.0	7,500.0	7,456.8	7,455.1	52.4	13.2	-91.12	3,720.5	756.9	1,433.4	1,375.9	57.49	24.935		
10,300.0	7,500.0	7,454.9	7,453.2	53.9	13.2	-90.95	3,720.6	756.9	1,343.9	1,284.8	59.08	22.747		
10,400.0	7,500.0	7,453.1	7,451.4	55.4	13.1	-90.78	3,720.6	757.0	1,255.9	1,195.1	60.85	20.641		
10,500.0	7,500.0	7,451.3	7,449.6	56.9	13.1	-90.61	3,720.6	757.0	1,169.9	1,107.1	62.81	18.627		
10,600.0	7,500.0	7,449.5	7,447.9	58.4	13.1	-90.45	3,720.6	757.0	1,086.3	1,021.4	64.99	16.717		
10,700.0	7,500.0	7,447.9	7,446.2	60.0	13.1	-90.30	3,720.7	757.0	1,005.7	938.4	67.39	14.925		
10,800.0	7,500.0	7,446.2	7,444.6	61.5	13.1	-90.15	3,720.7	757.1	928.9	858.9	70.00	13.270		
10,900.0	7,500.0	7,444.6	7,443.0	63.1	13.1	-90.00	3,720.7	757.1	856.9	784.1	72.79	11.772		
11,000.0	7,500.0	7,443.0	7,441.4	64.7	13.1	-89.85	3,720.7	757.1	791.0	715.3	75.66	10.455		
11,100.0	7,500.0	7,441.5	7,439.9	66.2	13.1	-89.71	3,720.8	757.1	732.8	654.4	78.41	9.346		
11,200.0	7,500.0	7,440.0	7,438.4	67.8	13.1	-89.57	3,720.8	757.2	684.4	603.6	80.75	8.475		
11,300.0	7,500.0	7,438.6	7,436.9	69.4	13.1	-89.44	3,720.8	757.2	647.8	565.6	82.25	7.877		
11,400.0	7,500.0	7,437.1	7,435.5	71.0	13.1	-89.30	3,720.8	757.2	625.3	542.9	82.46	7.584 SF		
11,493.3	7,500.0	7,435.8	7,434.2	72.6	13.1	-89.18	3,720.9	757.2	618.3	537.1	81.23	7.613 CC, ES		
11,500.0	7,500.0	7,435.7	7,434.1	72.7	13.1	-89.17	3,720.9	757.2	618.4	537.3	81.08	7.626		
11,600.0	7,500.0	7,434.4	7,432.7	74.3	13.1	-89.05	3,720.9	757.2	627.5	549.3	78.13	8.031		
11,700.0	7,500.0	7,433.0	7,431.4	75.9	13.1	-88.92	3,720.9	757.3	652.0	578.0	73.97	8.814		
11,800.0	7,500.0	7,431.7	7,430.1	77.5	13.1	-88.80	3,720.9	757.3	690.2	621.0	69.16	9.980		
11,900.0	7,500.0	7,430.5	7,428.8	79.2	13.1	-88.69	3,720.9	757.3	740.1	675.8	64.23	11.523		
12,000.0	7,500.0	7,429.2	7,427.6	80.8	13.1	-88.56	3,720.9	757.3	799.7	740.1	59.57	13.424		
12,023.9	7,500.0	7,428.9	7,427.3	81.2	13.1	-88.54	3,720.9	757.3	815.2	756.6	58.53	13.928		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 41-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	50.22	202.9	243.7	317.2					
100.0	100.0	88.8	88.8	0.1	0.1	50.29	202.9	244.3	317.6	317.3	0.28	1,145.150		
200.0	200.0	188.5	188.4	0.3	0.3	50.42	202.8	245.3	318.3	317.7	0.63	508.211		
300.0	300.0	289.7	289.7	0.5	0.5	-129.64	202.6	246.4	320.1	319.1	0.98	326.493		
400.0	399.8	399.7	399.6	0.7	0.7	-130.05	200.2	246.7	322.3	320.9	1.36	236.330		
500.0	499.6	508.3	508.0	0.9	0.9	-116.21	193.6	246.4	322.0	320.2	1.77	182.303		
600.0	599.3	618.2	617.3	1.1	1.2	-103.13	181.2	246.9	317.5	315.3	2.22	143.237		
700.0	699.0	723.5	721.1	1.3	1.5	-91.64	164.0	247.9	308.8	306.0	2.72	113.637		
800.0	798.6	819.0	815.0	1.6	1.8	-82.21	146.8	250.0	298.8	295.5	3.24	92.324		
900.0	898.0	917.4	911.6	1.8	2.1	-74.39	128.5	253.9	288.4	284.6	3.81	75.719		
1,000.0	997.3	1,020.2	1,012.1	2.0	2.6	-67.55	107.2	258.8	276.4	271.9	4.46	61.914		
1,100.0	1,096.5	1,118.9	1,107.4	2.3	3.0	-60.86	82.6	265.3	262.2	257.0	5.20	50.411		
1,200.0	1,195.4	1,210.7	1,195.4	2.6	3.5	-54.46	58.2	273.7	248.7	242.7	5.96	41.733		
1,300.0	1,294.1	1,302.1	1,282.7	2.9	4.0	-48.03	33.2	285.0	237.1	230.3	6.74	35.173		
1,400.0	1,392.5	1,392.9	1,369.1	3.2	4.4	-41.77	9.1	298.8	228.0	220.6	7.49	30.457		
1,500.0	1,490.6	1,485.4	1,456.9	3.6	5.0	-35.52	-14.8	315.7	221.8	213.6	8.20	27.065		
1,600.0	1,588.4	1,580.5	1,546.7	4.0	5.5	-29.05	-40.0	334.6	217.1	208.3	8.83	24.578		
1,700.0	1,686.0	1,674.4	1,635.2	4.4	6.1	-24.04	-64.0	354.7	214.7	205.3	9.34	22.973		
1,713.9	1,699.6	1,687.5	1,647.4	4.4	6.1	-23.35	-67.4	357.6	214.6	205.2	9.41	22.821	CC, ES	
1,800.0	1,783.6	1,768.4	1,723.0	4.8	6.7	-18.88	-88.9	376.7	216.1	206.3	9.74	22.193		
1,900.0	1,881.1	1,867.3	1,814.7	5.2	7.3	-12.94	-117.5	400.7	220.5	210.4	10.02	21.998		
2,000.0	1,978.7	1,963.1	1,903.3	5.6	8.0	-7.23	-146.0	423.1	226.6	216.5	10.12	22.385		
2,100.0	2,076.3	2,063.0	1,996.4	6.0	8.6	-2.36	-172.9	447.4	235.0	224.8	10.21	23.008		
2,200.0	2,173.8	2,157.6	2,084.7	6.4	9.2	1.87	-198.1	470.5	244.9	234.6	10.25	23.880		
2,300.0	2,271.4	2,256.5	2,176.7	6.8	9.8	5.85	-224.3	495.1	256.6	246.3	10.30	24.907		
2,400.0	2,369.0	2,355.3	2,269.1	7.2	10.5	9.20	-249.1	519.9	268.8	258.4	10.39	25.868		
2,500.0	2,466.5	2,456.2	2,363.4	7.7	11.1	12.52	-275.2	544.7	281.9	271.4	10.52	26.806		
2,600.0	2,564.1	2,562.1	2,463.1	8.1	11.8	15.96	-302.5	567.7	293.3	282.6	10.70	27.414		
2,700.0	2,661.7	2,658.0	2,553.6	8.5	12.3	19.01	-327.4	587.2	304.5	293.6	10.84	28.088		
2,800.0	2,759.2	2,743.3	2,633.4	8.9	12.9	21.60	-350.9	605.8	318.9	307.9	10.97	29.074		
2,900.0	2,856.8	2,832.4	2,715.5	9.3	13.6	24.36	-378.8	626.5	337.7	326.5	11.16	30.246		
3,000.0	2,954.4	2,926.9	2,802.0	9.8	14.3	26.92	-408.8	649.6	358.6	347.1	11.47	31.270		
3,100.0	3,052.0	3,032.7	2,899.5	10.2	15.0	29.41	-441.4	675.1	379.2	367.3	11.92	31.798		
3,200.0	3,149.5	3,135.4	2,994.7	10.6	15.7	31.73	-472.3	697.6	398.2	385.8	12.42	32.071		
3,300.0	3,247.1	3,228.2	3,081.0	11.0	16.3	33.67	-500.1	717.6	417.4	404.5	12.89	32.384		
3,400.0	3,344.7	3,314.7	3,160.7	11.4	17.0	35.49	-528.1	736.3	439.2	425.8	13.38	32.826		
3,500.0	3,442.2	3,415.3	3,252.8	11.9	17.7	37.52	-562.2	757.9	462.8	448.8	14.04	32.969		
3,600.0	3,539.8	3,532.2	3,361.5	12.3	18.5	39.50	-597.8	782.0	483.3	468.4	14.84	32.556		
3,700.0	3,637.4	3,662.7	3,485.0	12.7	19.2	41.44	-632.3	806.2	499.5	483.8	15.73	31.748		
3,800.0	3,734.9	3,812.8	3,630.8	13.1	19.8	44.00	-663.0	824.2	507.4	490.6	16.75	30.292		
3,900.0	3,832.5	3,908.8	3,724.9	13.6	20.2	45.66	-679.1	833.0	511.1	493.5	17.59	29.058		
4,000.0	3,930.1	4,017.1	3,831.3	14.0	20.5	47.31	-696.0	844.3	514.7	496.2	18.49	27.844		
4,100.0	4,027.7	4,124.1	3,936.8	14.4	20.9	48.68	-709.6	856.3	516.2	496.9	19.36	26.660		
4,200.0	4,125.2	4,211.9	4,023.3	14.8	21.2	49.75	-720.8	866.8	518.6	498.4	20.21	25.664		
4,300.0	4,222.8	4,298.1	4,107.7	15.3	21.6	50.79	-734.2	878.1	523.9	502.9	21.06	24.880		
4,400.0	4,320.4	4,381.7	4,189.1	15.7	22.0	51.73	-748.7	890.0	531.9	510.0	21.89	24.295		
4,500.0	4,417.9	4,480.3	4,284.6	16.1	22.4	52.77	-768.2	905.2	542.6	519.8	22.81	23.792		
4,600.0	4,515.5	4,592.3	4,393.4	16.5	22.9	53.81	-787.7	922.6	551.4	527.6	23.75	23.210		
4,700.0	4,613.1	4,669.2	4,468.1	17.0	23.3	54.57	-802.0	934.2	561.1	536.5	24.57	22.837		
4,800.0	4,710.6	4,752.4	4,548.1	17.4	23.7	55.33	-820.1	947.9	574.6	549.2	25.40	22.619		
4,900.0	4,808.2	4,831.2	4,623.3	17.8	24.2	55.89	-838.9	962.7	590.9	564.8	26.15	22.594		
5,000.0	4,905.8	4,911.9	4,699.3	18.3	24.7	56.39	-860.4	979.0	610.6	583.7	26.87	22.728		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 41-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,014.1	4,795.4	18.7	25.3	57.18	-889.8	997.9	631.9	604.1	27.80	22.730		
5,200.0	5,100.9	5,111.2	4,887.2	19.1	25.9	58.07	-917.2	1,013.6	652.1	623.4	28.74	22.688		
5,300.0	5,198.5	5,222.0	4,992.3	19.5	26.6	59.12	-947.9	1,030.4	671.8	642.0	29.84	22.515		
5,400.0	5,296.1	5,318.4	5,084.0	20.0	27.1	59.88	-973.3	1,045.8	690.4	659.6	30.78	22.432		
5,500.0	5,393.6	5,417.1	5,177.3	20.4	27.7	60.50	-1,000.1	1,063.2	710.4	678.7	31.69	22.418		
5,600.0	5,491.2	5,541.7	5,296.6	20.8	28.4	61.36	-1,030.4	1,083.0	727.0	694.2	32.82	22.148		
5,700.0	5,588.8	5,665.7	5,416.3	21.2	28.9	62.31	-1,057.5	1,100.3	741.1	707.1	33.95	21.830		
5,800.0	5,686.3	5,780.1	5,527.9	21.7	29.4	63.36	-1,079.0	1,113.1	751.7	716.6	35.06	21.442		
5,900.0	5,783.9	5,877.6	5,623.3	22.1	29.8	64.34	-1,097.3	1,122.4	762.3	726.2	36.09	21.122		
6,000.0	5,881.5	5,978.7	5,722.3	22.5	30.1	65.58	-1,116.6	1,128.8	773.0	735.8	37.20	20.778		
6,100.0	5,979.0	6,059.2	5,801.1	22.9	30.4	66.68	-1,132.7	1,131.9	784.8	746.6	38.23	20.530		
6,200.0	6,076.6	6,198.6	5,937.8	23.4	30.9	68.50	-1,159.3	1,137.6	796.3	756.7	39.69	20.067		
6,300.0	6,174.2	6,350.6	6,088.2	23.8	31.3	70.16	-1,178.8	1,147.1	802.0	761.0	41.01	19.557		
6,400.0	6,271.7	6,455.7	6,192.7	24.2	31.6	71.39	-1,188.2	1,152.1	803.9	761.7	42.15	19.072		
6,500.0	6,369.3	6,551.7	6,288.2	24.7	31.8	72.39	-1,196.4	1,158.3	805.8	762.6	43.24	18.635		
6,600.0	6,466.9	6,673.7	6,409.3	25.1	32.1	73.49	-1,206.6	1,168.6	808.0	763.7	44.33	18.226		
6,700.0	6,564.5	6,778.0	6,513.1	25.5	32.3	74.44	-1,211.9	1,177.3	806.8	761.4	45.39	17.777		
6,764.0	6,626.9	6,837.3	6,572.1	25.8	32.4	75.00	-1,215.0	1,181.9	806.4	760.3	46.05	17.510		
6,800.0	6,662.0	6,867.9	6,602.6	25.9	32.5	75.31	-1,216.9	1,184.1	806.5	760.1	46.43	17.371		
6,900.0	6,759.6	6,967.8	6,702.1	26.4	32.7	77.94	-1,223.4	1,190.2	807.4	759.9	47.51	16.996		
7,000.0	6,857.3	7,077.5	6,811.5	26.7	32.9	115.07	-1,229.5	1,195.6	815.3	766.7	48.58	16.781 SF		
7,100.0	6,953.8	7,180.8	6,914.7	27.0	33.0	141.09	-1,234.0	1,200.0	836.1	786.5	49.56	16.868		
7,200.0	7,047.4	7,278.4	7,012.1	27.3	33.2	155.40	-1,237.6	1,203.7	869.9	819.5	50.41	17.256		
7,300.0	7,136.1	7,368.8	7,102.4	27.5	33.3	163.90	-1,240.6	1,206.8	916.2	865.1	51.10	17.930		
7,400.0	7,218.3	7,453.8	7,187.3	27.6	33.4	169.69	-1,243.1	1,209.4	974.1	922.4	51.62	18.869		
7,500.0	7,292.4	7,529.5	7,263.0	27.7	33.5	174.20	-1,244.9	1,211.4	1,042.3	990.3	51.99	20.049		
7,600.0	7,356.9	7,593.3	7,326.8	27.9	33.6	178.29	-1,246.4	1,212.9	1,119.8	1,067.6	52.22	21.445		
7,700.0	7,410.5	7,644.6	7,378.0	28.1	33.6	-177.17	-1,247.5	1,214.0	1,205.1	1,152.8	52.32	23.033		
7,800.0	7,452.2	7,689.0	7,422.4	28.3	33.7	-170.84	-1,248.4	1,214.9	1,296.6	1,244.3	52.33	24.776		
7,900.0	7,481.2	7,720.5	7,453.9	28.5	33.7	-158.92	-1,249.0	1,215.5	1,392.4	1,340.1	52.26	26.642		
8,000.0	7,497.0	7,737.2	7,470.6	28.9	33.7	-126.64	-1,249.2	1,215.8	1,490.8	1,438.7	52.13	28.600		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5034-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	83.07	152.3	1,253.7	1,263.5					
100.0	100.0	64.0	64.0	0.1	0.1	83.07	152.3	1,253.7	1,262.9	1,262.7	0.26	4,852.756		
200.0	200.0	164.0	164.0	0.3	0.3	83.07	152.3	1,253.7	1,262.9	1,262.3	0.61	2,072.723		
300.0	300.0	264.0	264.0	0.5	0.5	-97.00	152.3	1,253.7	1,263.1	1,262.2	0.96	1,313.045		
400.0	399.8	363.8	363.8	0.7	0.6	-97.22	152.3	1,253.7	1,263.8	1,262.5	1.33	949.398		
500.0	499.6	463.6	463.6	0.9	0.8	-83.44	152.3	1,253.7	1,263.8	1,262.1	1.71	739.496		
600.0	599.3	563.3	563.3	1.1	1.0	-71.05	152.3	1,253.7	1,262.2	1,260.1	2.09	603.303		
700.0	699.0	663.0	663.0	1.3	1.2	-60.85	152.3	1,253.7	1,258.8	1,256.3	2.48	507.785		
800.0	798.6	762.6	762.6	1.6	1.3	-52.87	152.3	1,253.7	1,253.8	1,250.9	2.87	436.945		
900.0	898.0	862.0	862.0	1.8	1.5	-46.74	152.3	1,253.7	1,247.0	1,243.8	3.26	382.157		
1,000.0	997.3	961.3	961.3	2.0	1.7	-42.04	152.3	1,253.7	1,238.6	1,235.0	3.66	338.381		
1,100.0	1,096.5	1,060.5	1,060.5	2.3	1.9	-38.42	152.3	1,253.7	1,228.6	1,224.5	4.06	302.478		
1,200.0	1,195.4	1,159.4	1,159.4	2.6	2.0	-35.61	152.3	1,253.7	1,216.8	1,212.4	4.47	272.399		
1,300.0	1,294.1	1,258.1	1,258.1	2.9	2.2	-33.41	152.3	1,253.7	1,203.5	1,198.6	4.88	246.745		
1,400.0	1,392.5	1,356.5	1,356.5	3.2	2.4	-31.70	152.3	1,253.7	1,188.5	1,183.2	5.29	224.532		
1,500.0	1,490.6	1,454.6	1,454.6	3.6	2.5	-30.37	152.3	1,253.7	1,171.8	1,166.1	5.71	205.049		
1,600.0	1,588.4	1,552.4	1,552.4	4.0	2.7	-29.35	152.3	1,253.7	1,153.6	1,147.5	6.14	187.767		
1,700.0	1,686.0	1,650.0	1,650.0	4.4	2.9	-29.71	152.3	1,253.7	1,134.4	1,127.8	6.58	172.461		
1,800.0	1,783.6	1,747.6	1,747.6	4.8	3.1	-30.27	152.3	1,253.7	1,115.3	1,108.3	7.02	158.942		
1,900.0	1,881.1	1,845.1	1,845.1	5.2	3.2	-30.84	152.3	1,253.7	1,096.3	1,088.9	7.46	146.921		
2,000.0	1,978.7	1,942.7	1,942.7	5.6	3.4	-31.43	152.3	1,253.7	1,077.5	1,069.5	7.91	136.166		
2,100.0	2,076.3	2,040.3	2,040.3	6.0	3.6	-32.05	152.3	1,253.7	1,058.7	1,050.3	8.37	126.493		
2,200.0	2,173.8	2,137.8	2,137.8	6.4	3.7	-32.68	152.3	1,253.7	1,040.1	1,031.2	8.83	117.750		
2,300.0	2,271.4	2,235.4	2,235.4	6.8	3.9	-33.34	152.3	1,253.7	1,021.6	1,012.3	9.30	109.812		
2,400.0	2,369.0	2,333.0	2,333.0	7.2	4.1	-34.02	152.3	1,253.7	1,003.2	993.4	9.78	102.579		
2,500.0	2,466.5	2,430.5	2,430.5	7.7	4.2	-34.73	152.3	1,253.7	985.0	974.7	10.26	95.963		
2,600.0	2,564.1	2,528.1	2,528.1	8.1	4.4	-35.47	152.3	1,253.7	966.9	956.1	10.76	89.893		
2,700.0	2,661.7	2,625.7	2,625.7	8.5	4.6	-36.23	152.3	1,253.7	949.0	937.7	11.26	84.307		
2,800.0	2,759.2	2,723.2	2,723.2	8.9	4.8	-37.02	152.3	1,253.7	931.2	919.5	11.76	79.155		
2,900.0	2,856.8	2,820.8	2,820.8	9.3	4.9	-37.84	152.3	1,253.7	913.7	901.4	12.28	74.390		
3,000.0	2,954.4	2,918.4	2,918.4	9.8	5.1	-38.69	152.3	1,253.7	896.3	883.5	12.81	69.975		
3,100.0	3,052.0	3,016.0	3,016.0	10.2	5.3	-39.57	152.3	1,253.7	879.1	865.8	13.35	65.877		
3,200.0	3,149.5	3,113.5	3,113.5	10.6	5.4	-40.49	152.3	1,253.7	862.2	848.3	13.89	62.066		
3,300.0	3,247.1	3,211.1	3,211.1	11.0	5.6	-41.44	152.3	1,253.7	845.5	831.0	14.45	58.517		
3,400.0	3,344.7	3,308.7	3,308.7	11.4	5.8	-42.44	152.3	1,253.7	829.0	814.0	15.02	55.208		
3,500.0	3,442.2	3,406.2	3,406.2	11.9	5.9	-43.47	152.3	1,253.7	812.8	797.2	15.59	52.119		
3,600.0	3,539.8	3,503.8	3,503.8	12.3	6.1	-44.54	152.3	1,253.7	796.8	780.6	16.18	49.233		
3,700.0	3,637.4	3,601.4	3,601.4	12.7	6.3	-45.65	152.3	1,253.7	781.2	764.4	16.79	46.535		
3,800.0	3,734.9	3,698.9	3,698.9	13.1	6.5	-46.81	152.3	1,253.7	765.8	748.4	17.40	44.012		
3,900.0	3,832.5	3,796.5	3,796.5	13.6	6.6	-48.01	152.3	1,253.7	750.8	732.8	18.03	41.650		
4,000.0	3,930.1	3,894.1	3,894.1	14.0	6.8	-49.26	152.3	1,253.7	736.1	717.4	18.66	39.440		
4,100.0	4,027.7	3,991.7	3,991.7	14.4	7.0	-50.56	152.3	1,253.7	721.8	702.5	19.31	37.371		
4,200.0	4,125.2	4,089.2	4,089.2	14.8	7.1	-51.91	152.3	1,253.7	707.9	687.9	19.98	35.435		
4,300.0	4,222.8	4,186.8	4,186.8	15.3	7.3	-53.31	152.3	1,253.7	694.3	673.7	20.65	33.624		
4,400.0	4,320.4	4,284.4	4,284.4	15.7	7.5	-54.77	152.3	1,253.7	681.3	659.9	21.34	31.932		
4,500.0	4,417.9	4,381.9	4,381.9	16.1	7.6	-56.27	152.3	1,253.7	668.7	646.6	22.03	30.350		
4,600.0	4,515.5	4,479.5	4,479.5	16.5	7.8	-57.84	152.3	1,253.7	656.5	633.8	22.74	28.875		
4,700.0	4,613.1	4,577.1	4,577.1	17.0	8.0	-59.46	152.3	1,253.7	644.9	621.5	23.45	27.499		
4,800.0	4,710.6	4,674.6	4,674.6	17.4	8.2	-61.13	152.3	1,253.7	633.9	609.7	24.18	26.219		
4,900.0	4,808.2	4,772.2	4,772.2	17.8	8.3	-62.86	152.3	1,253.7	623.4	598.5	24.90	25.030		
5,000.0	4,905.8	4,869.8	4,869.8	18.3	8.5	-64.65	152.3	1,253.7	613.5	587.8	25.64	23.928		
5,100.0	5,003.3	4,967.3	4,967.3	18.7	8.7	-66.49	152.3	1,253.7	604.2	577.9	26.38	22.909		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 5034-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5,200.0	5,100.9	5,034.0	5,034.0	19.1	8.8	-67.77	152.3	1,253.7	596.4	569.4	27.04	22.060			
5,219.0	5,119.4	5,034.0	5,034.0	19.2	8.8	-67.77	152.3	1,253.7	596.1	569.0	27.10	21.996	CC, ES, SF		
5,300.0	5,198.5	5,034.0	5,034.0	19.5	8.8	-67.77	152.3	1,253.7	601.6	574.5	27.12	22.180			
5,400.0	5,296.1	5,034.0	5,034.0	20.0	8.8	-67.77	152.3	1,253.7	623.0	596.4	26.63	23.396			
5,500.0	5,393.6	5,034.0	5,034.0	20.4	8.8	-67.77	152.3	1,253.7	659.1	633.4	25.71	25.636			
5,600.0	5,491.2	5,034.0	5,034.0	20.8	8.8	-67.77	152.3	1,253.7	707.5	683.0	24.56	28.811			
5,700.0	5,588.8	5,034.0	5,034.0	21.2	8.8	-67.77	152.3	1,253.7	766.0	742.7	23.34	32.814			
5,800.0	5,686.3	5,034.0	5,034.0	21.7	8.8	-67.77	152.3	1,253.7	832.5	810.3	22.18	37.537			
5,900.0	5,783.9	5,034.0	5,034.0	22.1	8.8	-67.77	152.3	1,253.7	905.1	884.0	21.11	42.867			
6,000.0	5,881.5	5,034.0	5,034.0	22.5	8.8	-67.77	152.3	1,253.7	982.6	962.4	20.17	48.702			
6,100.0	5,979.0	5,034.0	5,034.0	22.9	8.8	-67.77	152.3	1,253.7	1,063.8	1,044.4	19.36	54.946			
6,200.0	6,076.6	5,034.0	5,034.0	23.4	8.8	-67.77	152.3	1,253.7	1,148.0	1,129.3	18.66	61.514			
6,300.0	6,174.2	5,034.0	5,034.0	23.8	8.8	-67.77	152.3	1,253.7	1,234.5	1,216.5	18.07	68.332			
6,400.0	6,271.7	5,034.0	5,034.0	24.2	8.8	-67.77	152.3	1,253.7	1,323.0	1,305.4	17.56	75.335			
6,500.0	6,369.3	5,034.0	5,034.0	24.7	8.8	-67.77	152.3	1,253.7	1,413.0	1,395.8	17.13	82.471			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON 1 - TEXAS TEA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5050-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-4.60	1,423.3	-114.4	1,428.4					
100.0	100.0	59.0	59.0	0.1	0.1	-4.60	1,423.3	-114.4	1,427.9	1,427.6	0.25	5,676.778		
200.0	200.0	159.0	159.0	0.3	0.3	-4.60	1,423.3	-114.4	1,427.9	1,427.3	0.60	2,377.429	CC, ES	
300.0	300.0	259.0	259.0	0.5	0.5	175.41	1,423.3	-114.4	1,429.6	1,428.6	0.95	1,505.390		
400.0	399.8	358.8	358.8	0.7	0.6	175.41	1,423.3	-114.4	1,434.8	1,433.5	1.30	1,104.874		
500.0	499.6	458.6	458.6	0.9	0.8	-170.43	1,423.3	-114.4	1,441.8	1,440.2	1.65	875.390		
600.0	599.3	558.3	558.3	1.1	1.0	-157.72	1,423.3	-114.4	1,448.9	1,446.9	2.00	725.514		
700.0	699.0	658.0	658.0	1.3	1.1	-147.26	1,423.3	-114.4	1,456.1	1,453.7	2.35	619.184		
800.0	798.6	757.6	757.6	1.6	1.3	-139.07	1,423.3	-114.4	1,463.4	1,460.7	2.71	539.226		
900.0	898.0	857.0	857.0	1.8	1.5	-132.78	1,423.3	-114.4	1,470.8	1,467.7	3.09	476.479		
1,000.0	997.3	956.3	956.3	2.0	1.7	-127.96	1,423.3	-114.4	1,478.4	1,474.9	3.47	425.646		
1,100.0	1,096.5	1,055.5	1,055.5	2.3	1.8	-124.27	1,423.3	-114.4	1,486.2	1,482.3	3.88	383.460		
1,200.0	1,195.4	1,154.4	1,154.4	2.6	2.0	-121.41	1,423.3	-114.4	1,494.1	1,489.8	4.30	347.806	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON 3 - TEXAS TEA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5050-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-84.67	134.5	-1,441.2	1,447.4					
100.0	100.0	96.0	96.0	0.1	0.2	-84.67	134.5	-1,441.2	1,447.4	1,447.1	0.32	4,579.033		
200.0	200.0	196.0	196.0	0.3	0.3	-84.67	134.5	-1,441.2	1,447.4	1,446.8	0.67	2,176.064	CC	
300.0	300.0	296.0	296.0	0.5	0.5	95.40	134.5	-1,441.2	1,447.6	1,446.6	1.02	1,422.182	ES	
400.0	399.8	395.8	395.8	0.7	0.7	95.59	134.5	-1,441.2	1,448.1	1,446.7	1.39	1,043.934		
500.0	499.6	495.6	495.6	0.9	0.9	109.96	134.5	-1,441.2	1,449.7	1,447.9	1.76	822.341		
600.0	599.3	595.3	595.3	1.1	1.0	122.95	134.5	-1,441.2	1,453.0	1,450.9	2.14	678.959		
700.0	699.0	695.0	695.0	1.3	1.2	133.74	134.5	-1,441.2	1,458.1	1,455.6	2.52	579.383		
800.0	798.6	794.6	794.6	1.6	1.4	142.32	134.5	-1,441.2	1,464.9	1,462.0	2.89	506.626		
900.0	898.0	894.0	894.0	1.8	1.6	149.05	134.5	-1,441.2	1,473.5	1,470.2	3.26	451.419		
1,000.0	997.3	993.3	993.3	2.0	1.7	154.37	134.5	-1,441.2	1,483.8	1,480.2	3.63	408.303		
1,100.0	1,096.5	1,092.5	1,092.5	2.3	1.9	158.62	134.5	-1,441.2	1,495.9	1,491.9	4.00	373.860	SF	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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		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	45.31	859.4	868.7	1,222.9						
100.0	100.0	53.3	53.3	0.1	0.1	45.31	859.4	868.7	1,221.9	1,221.7	0.24	5,060.596			
200.0	200.0	153.1	153.1	0.3	0.3	45.31	859.3	868.8	1,221.9	1,221.3	0.59	2,070.927			
200.2	200.2	153.2	153.2	0.3	0.3	45.31	859.3	868.8	1,221.9	1,221.3	0.59	2,068.679			
300.0	300.0	251.9	251.9	0.5	0.4	-134.74	859.5	868.6	1,223.2	1,222.2	0.94	1,302.751			
400.0	399.8	350.6	350.6	0.7	0.6	-134.87	859.8	868.5	1,227.0	1,225.7	1.30	946.548			
500.0	499.6	449.3	449.3	0.9	0.8	-121.00	860.1	868.5	1,231.5	1,229.9	1.66	740.610			
600.0	599.3	551.4	551.4	1.1	1.0	-108.58	860.3	868.6	1,234.9	1,232.8	2.05	603.650			
700.0	699.0	652.7	652.7	1.3	1.1	-98.42	860.5	868.3	1,236.7	1,234.2	2.44	507.061			
800.0	798.6	751.2	751.2	1.6	1.3	-90.53	861.0	867.8	1,237.3	1,234.5	2.84	435.728			
900.0	898.0	851.7	851.7	1.8	1.5	-84.55	861.5	867.3	1,236.9	1,233.6	3.26	379.618			
1,000.0	997.3	951.6	951.6	2.0	1.7	-80.06	862.1	866.5	1,235.1	1,231.5	3.69	334.610			
1,100.0	1,096.5	1,050.6	1,050.6	2.3	1.8	-76.70	862.9	865.5	1,232.4	1,228.2	4.14	297.709			
1,200.0	1,195.4	1,151.9	1,151.8	2.6	2.0	-74.22	863.7	864.4	1,228.5	1,223.9	4.61	266.487			
1,300.0	1,294.1	1,251.9	1,251.9	2.9	2.2	-72.41	864.5	862.9	1,223.4	1,218.3	5.10	239.965			
1,400.0	1,392.5	1,349.1	1,349.0	3.2	2.4	-71.12	865.4	861.2	1,217.4	1,211.8	5.60	217.286			
1,500.0	1,490.6	1,446.4	1,446.3	3.6	2.5	-70.27	866.5	859.5	1,210.7	1,204.5	6.13	197.478			
1,600.0	1,588.4	1,542.9	1,542.8	4.0	2.7	-69.77	867.7	857.6	1,203.2	1,196.5	6.68	180.073			
1,700.0	1,686.0	1,638.3	1,638.2	4.4	2.9	-70.64	869.1	855.8	1,195.5	1,188.3	7.24	165.114			
1,800.0	1,783.6	1,736.0	1,735.8	4.8	3.0	-71.73	870.6	853.9	1,188.4	1,180.6	7.81	152.163			
1,900.0	1,881.1	1,835.4	1,835.2	5.2	3.2	-72.84	871.9	852.0	1,181.6	1,173.2	8.39	140.862			
2,000.0	1,978.7	1,933.1	1,932.8	5.6	3.4	-73.93	872.8	850.4	1,175.1	1,166.1	8.97	131.043			
2,100.0	2,076.3	2,030.2	2,030.0	6.0	3.6	-75.02	873.6	848.9	1,169.0	1,159.4	9.55	122.421			
2,200.0	2,173.8	2,126.2	2,125.9	6.4	3.7	-76.09	874.5	847.6	1,163.4	1,153.3	10.13	114.829			
2,300.0	2,271.4	2,224.2	2,223.9	6.8	3.9	-77.20	875.3	846.4	1,158.3	1,147.6	10.72	108.046			
2,400.0	2,369.0	2,327.3	2,327.0	7.2	4.1	-78.37	875.9	844.9	1,153.3	1,142.0	11.32	101.878			
2,500.0	2,466.5	2,426.5	2,426.3	7.7	4.3	-79.51	876.1	843.4	1,148.5	1,136.6	11.92	96.386			
2,600.0	2,564.1	2,524.8	2,524.5	8.1	4.4	-80.62	876.1	842.0	1,144.0	1,131.5	12.51	91.451			
2,700.0	2,661.7	2,622.5	2,622.3	8.5	4.6	-81.75	876.0	840.7	1,139.9	1,126.7	13.10	86.987			
2,800.0	2,759.2	2,717.7	2,717.4	8.9	4.8	-82.85	876.1	839.3	1,136.3	1,122.6	13.69	82.984			
2,900.0	2,856.8	2,820.6	2,820.3	9.3	5.0	-84.05	876.0	837.7	1,133.0	1,118.7	14.30	79.251			
3,000.0	2,954.4	2,915.7	2,915.4	9.8	5.1	-85.17	875.8	836.1	1,130.0	1,115.2	14.89	75.915			
3,100.0	3,052.0	3,008.5	3,008.2	10.2	5.3	-86.28	875.9	834.4	1,127.9	1,112.4	15.47	72.908			
3,200.0	3,149.5	3,104.8	3,104.5	10.6	5.5	-87.45	876.4	832.6	1,126.4	1,110.4	16.06	70.144			
3,300.0	3,247.1	3,202.2	3,201.8	11.0	5.6	-88.63	876.9	830.6	1,125.5	1,108.8	16.65	67.609			
3,400.0	3,344.7	3,301.3	3,300.9	11.4	5.8	-89.85	877.3	828.4	1,125.0	1,107.7	17.24	65.271			
3,457.6	3,400.9	3,356.6	3,356.1	11.7	5.9	-90.53	877.5	827.2	1,124.9	1,107.3	17.57	64.025			
3,500.0	3,442.2	3,397.2	3,396.8	11.9	6.0	-91.03	877.7	826.3	1,124.9	1,107.1	17.81	63.147			
3,600.0	3,539.8	3,493.4	3,492.9	12.3	6.2	-92.21	878.2	824.2	1,125.5	1,107.1	18.39	61.204			
3,700.0	3,637.4	3,588.6	3,588.1	12.7	6.3	-93.37	878.8	822.3	1,126.7	1,107.7	18.96	59.430			
3,800.0	3,734.9	3,686.9	3,686.4	13.1	6.5	-94.57	879.4	820.1	1,128.4	1,108.9	19.53	57.784			
3,900.0	3,832.5	3,787.6	3,787.1	13.6	6.7	-95.82	880.0	817.4	1,130.4	1,110.3	20.10	56.249			
4,000.0	3,930.1	3,883.6	3,883.0	14.0	6.9	-97.02	880.4	814.5	1,132.9	1,112.2	20.65	54.855			
4,100.0	4,027.7	3,976.7	3,976.1	14.4	7.0	-98.19	881.0	811.7	1,136.0	1,114.8	21.19	53.601			
4,200.0	4,125.2	4,070.0	4,069.3	14.8	7.2	-99.34	881.9	809.1	1,140.1	1,118.3	21.73	52.466			
4,300.0	4,222.8	4,164.5	4,163.8	15.3	7.4	-100.49	883.1	806.6	1,144.9	1,122.6	22.26	51.433			
4,400.0	4,320.4	4,258.4	4,257.7	15.7	7.5	-101.60	884.4	804.6	1,150.4	1,127.6	22.78	50.496			
4,500.0	4,417.9	4,352.4	4,351.6	16.1	7.7	-102.71	886.0	802.5	1,156.7	1,133.4	23.30	49.652			
4,600.0	4,515.5	4,448.2	4,447.4	16.5	7.9	-103.81	887.8	800.7	1,163.6	1,139.8	23.81	48.878			
4,700.0	4,613.1	4,542.9	4,542.0	17.0	8.0	-104.89	889.6	798.8	1,171.1	1,146.8	24.31	48.179			
4,800.0	4,710.6	4,637.9	4,637.0	17.4	8.2	-105.96	891.7	797.2	1,179.3	1,154.5	24.80	47.550			
4,900.0	4,808.2	4,734.6	4,733.7	17.8	8.4	-107.03	893.9	795.3	1,188.0	1,162.7	25.29	46.969			

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 4U-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 4U-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 #2	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				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	4,905.8	4,827.7	4,826.8	18.3	8.6	-108.05	896.2	793.7	1,197.3	1,171.5	25.77	46.466		
5,100.0	5,003.3	4,925.9	4,924.9	18.7	8.7	-109.09	898.8	792.1	1,207.2	1,181.0	26.25	45.994		
5,200.0	5,100.9	5,028.8	5,027.7	19.1	8.9	-110.17	901.0	790.3	1,217.1	1,190.3	26.73	45.532		
5,300.0	5,198.5	5,124.6	5,123.5	19.5	9.1	-111.17	903.0	788.7	1,227.2	1,200.0	27.19	45.136		
5,400.0	5,296.1	5,221.3	5,220.1	20.0	9.3	-112.15	905.1	787.1	1,237.8	1,210.2	27.64	44.778		
5,500.0	5,393.6	5,318.6	5,317.4	20.4	9.4	-113.12	907.2	785.7	1,248.8	1,220.7	28.09	44.453		
5,600.0	5,491.2	5,415.6	5,414.4	20.8	9.6	-114.05	909.4	784.5	1,260.2	1,231.6	28.54	44.160		
5,700.0	5,588.8	5,514.6	5,513.4	21.2	9.8	-114.99	911.5	783.3	1,271.8	1,242.8	28.98	43.887		
5,800.0	5,686.3	5,614.5	5,613.3	21.7	10.0	-115.93	913.4	782.0	1,283.6	1,254.1	29.42	43.635		
5,900.0	5,783.9	5,712.8	5,711.5	22.1	10.1	-116.83	915.2	780.7	1,295.5	1,265.7	29.84	43.411		
6,000.0	5,881.5	5,810.9	5,809.6	22.5	10.3	-117.72	916.8	779.3	1,307.7	1,277.4	30.26	43.211		
6,100.0	5,979.0	5,905.2	5,903.8	22.9	10.5	-118.56	918.5	778.1	1,320.3	1,289.6	30.67	43.049		
6,200.0	6,076.6	6,000.0	5,998.7	23.4	10.6	-119.37	920.4	777.2	1,333.3	1,302.2	31.07	42.910		
6,300.0	6,174.2	6,096.4	6,095.0	23.8	10.8	-120.18	922.6	776.3	1,346.8	1,315.3	31.47	42.789		
6,400.0	6,271.7	6,194.8	6,193.4	24.2	11.0	-120.99	924.7	775.4	1,360.5	1,328.6	31.88	42.679		
6,500.0	6,369.3	6,294.4	6,293.0	24.7	11.2	-121.79	926.7	774.4	1,374.4	1,342.1	32.28	42.580		
6,600.0	6,466.9	6,390.6	6,389.2	25.1	11.3	-122.54	928.7	773.7	1,388.4	1,355.8	32.67	42.504		
6,700.0	6,564.5	6,487.0	6,485.5	25.5	11.5	-123.27	930.8	773.2	1,402.8	1,369.7	33.05	42.442		
6,800.0	6,662.0	6,581.0	6,579.5	25.9	11.7	-123.98	932.9	772.5	1,417.5	1,384.1	33.43	42.406		
6,900.0	6,759.6	6,678.0	6,676.5	26.4	11.9	-123.10	935.2	771.7	1,432.6	1,398.8	33.81	42.379		
7,000.0	6,857.3	6,777.2	6,775.7	26.7	12.0	-87.84	937.6	770.9	1,440.8	1,406.5	34.22	42.104		
7,100.0	6,953.8	6,872.5	6,870.9	27.0	12.2	-64.14	939.7	770.1	1,436.0	1,401.3	34.65	41.444		
7,200.0	7,047.4	6,963.2	6,961.6	27.3	12.4	-52.70	941.8	768.8	1,418.9	1,383.8	35.09	40.437		
7,300.0	7,136.1	7,055.0	7,053.4	27.5	12.5	-47.85	943.8	767.2	1,389.9	1,354.4	35.55	39.093		
7,400.0	7,218.3	7,137.8	7,136.1	27.6	12.7	-46.62	945.4	765.8	1,349.8	1,313.7	36.02	37.470		
7,500.0	7,292.4	7,207.5	7,205.8	27.7	12.8	-47.78	947.0	764.5	1,300.0	1,263.5	36.48	35.634		
7,600.0	7,356.9	7,272.3	7,270.6	27.9	12.9	-51.14	948.6	763.2	1,241.9	1,205.0	36.95	33.610		
7,700.0	7,410.5	7,326.2	7,324.4	28.1	13.0	-56.48	950.0	762.1	1,177.0	1,139.6	37.41	31.464		
7,800.0	7,452.2	7,368.4	7,366.6	28.3	13.1	-63.62	951.1	761.3	1,107.2	1,069.3	37.84	29.256		
7,900.0	7,481.2	7,400.0	7,398.2	28.5	13.2	-72.25	952.1	760.6	1,034.3	996.0	38.25	27.041		
8,000.0	7,497.0	7,418.2	7,416.4	28.9	13.2	-81.36	952.6	760.2	960.5	921.9	38.59	24.886		
8,100.0	7,500.0	7,424.3	7,422.5	29.2	13.2	-87.23	952.8	760.1	888.0	849.2	38.86	22.853		
8,200.0	7,500.0	7,427.3	7,425.5	29.7	13.2	-87.50	952.9	760.1	820.7	781.7	39.03	21.029		
8,300.0	7,500.0	7,430.3	7,428.4	30.3	13.2	-87.77	952.9	760.0	760.6	721.5	39.04	19.481		
8,400.0	7,500.0	7,433.2	7,431.4	31.0	13.2	-88.03	953.0	760.0	709.5	670.6	38.83	18.272		
8,500.0	7,500.0	7,436.1	7,434.3	31.7	13.2	-88.30	953.1	759.9	669.5	631.2	38.30	17.480		
8,600.0	7,500.0	7,439.0	7,437.2	32.5	13.2	-88.56	953.2	759.8	642.7	605.3	37.41	17.181 SF		
8,700.0	7,500.0	7,441.9	7,440.1	33.4	13.2	-88.82	953.3	759.8	630.8	594.7	36.17	17.443		
8,725.8	7,500.0	7,442.7	7,440.8	33.6	13.2	-88.89	953.3	759.8	630.3	594.5	35.81	17.604 CC, ES		
8,800.0	7,500.0	7,444.8	7,442.9	34.4	13.2	-89.08	953.3	759.7	634.7	600.0	34.69	18.295		
8,900.0	7,500.0	7,447.6	7,445.7	35.4	13.2	-89.34	953.4	759.7	653.9	620.7	33.19	19.703		
9,000.0	7,500.0	7,450.4	7,448.6	36.5	13.2	-89.60	953.5	759.6	687.3	655.5	31.87	21.566		
9,100.0	7,500.0	7,453.2	7,451.3	37.6	13.3	-89.85	953.6	759.6	733.0	702.1	30.88	23.738		
9,200.0	7,500.0	7,456.0	7,454.1	38.8	13.3	-90.10	953.7	759.5	788.7	758.4	30.25	26.076		
9,300.0	7,500.0	7,458.7	7,456.9	40.0	13.3	-90.35	953.7	759.5	852.5	822.6	29.94	28.475		
9,400.0	7,500.0	7,461.4	7,459.6	41.3	13.3	-90.60	953.8	759.4	922.8	892.9	29.88	30.884		
9,500.0	7,500.0	7,464.2	7,462.3	42.6	13.3	-90.84	953.9	759.4	998.1	968.1	29.99	33.281		
9,600.0	7,500.0	7,466.8	7,465.0	43.9	13.3	-91.09	954.0	759.3	1,077.5	1,047.3	30.21	35.667		
9,700.0	7,500.0	7,469.5	7,467.6	45.2	13.3	-91.33	954.0	759.3	1,160.0	1,129.5	30.49	38.046		
9,800.0	7,500.0	7,472.2	7,470.3	46.6	13.3	-91.57	954.1	759.2	1,245.1	1,214.3	30.80	40.423		
9,900.0	7,500.0	7,474.8	7,472.9	48.0	13.3	-91.81	954.2	759.2	1,332.3	1,301.2	31.13	42.802		
10,000.0	7,500.0	7,477.4	7,475.5	49.5	13.3	-92.04	954.2	759.1	1,421.2	1,389.7	31.45	45.182		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 926-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	45.50	225.1	229.1	321.3					
100.0	100.0	92.7	92.7	0.1	0.2	45.50	225.1	229.1	321.1	320.8	0.31	1,043.998		
200.0	200.0	193.5	193.5	0.3	0.3	45.50	224.8	228.8	320.8	320.1	0.66	489.585		
221.5	221.5	215.2	215.2	0.4	0.4	-134.51	224.8	228.7	320.7	320.0	0.73	439.106 CC, ES		
300.0	300.0	294.3	294.3	0.5	0.5	-134.72	224.4	228.3	321.4	320.4	1.00	319.913		
400.0	399.8	395.0	395.0	0.7	0.7	-135.35	223.9	227.7	324.3	322.9	1.36	238.017		
500.0	499.6	495.6	495.6	0.9	0.9	-122.21	223.2	226.9	327.6	325.9	1.73	189.494		
600.0	599.3	596.1	596.1	1.1	1.0	-110.66	222.3	225.9	329.5	327.4	2.10	156.587		
700.0	699.0	696.6	696.6	1.3	1.2	-101.52	221.2	224.7	330.2	327.7	2.49	132.572		
800.0	798.6	797.0	796.9	1.6	1.4	-94.81	220.0	223.3	329.6	326.7	2.89	114.126		
900.0	898.0	897.2	897.1	1.8	1.6	-90.20	218.6	221.8	328.0	324.7	3.30	99.421		
1,000.0	997.3	992.4	992.3	2.0	1.7	-87.29	218.0	219.8	325.9	322.2	3.72	87.610		
1,052.3	1,049.2	1,038.6	1,038.5	2.2	1.8	-86.40	218.8	218.4	325.4	321.5	3.94	82.524		
1,100.0	1,096.5	1,079.3	1,079.1	2.3	1.9	-85.82	220.3	217.5	325.9	321.7	4.14	78.642		
1,200.0	1,195.4	1,164.9	1,164.5	2.6	2.0	-85.38	225.9	216.4	329.7	325.1	4.58	71.963		
1,300.0	1,294.1	1,252.2	1,251.4	2.9	2.2	-85.84	234.6	216.1	337.3	332.2	5.03	67.037		
1,400.0	1,392.5	1,341.0	1,339.5	3.2	2.4	-86.89	245.8	216.4	348.0	342.4	5.50	63.222		
1,500.0	1,490.6	1,426.6	1,424.0	3.6	2.6	-88.38	259.0	216.3	361.9	355.9	5.97	60.581		
1,600.0	1,588.4	1,515.7	1,511.7	4.0	2.8	-90.32	275.1	216.2	379.4	372.9	6.47	58.684		
1,700.0	1,686.0	1,599.6	1,593.9	4.4	3.1	-93.56	291.8	215.4	400.0	393.1	6.92	57.764		
1,800.0	1,783.6	1,682.6	1,674.6	4.8	3.3	-96.84	310.9	213.7	425.0	417.7	7.36	57.726		
1,900.0	1,881.1	1,769.8	1,759.1	5.2	3.7	-100.04	332.7	211.4	453.4	445.6	7.81	58.080		
2,000.0	1,978.7	1,852.7	1,839.0	5.6	4.0	-102.81	354.2	208.8	484.3	476.1	8.22	58.930		
2,100.0	2,076.3	1,937.1	1,920.0	6.0	4.4	-105.36	377.9	205.8	518.3	509.6	8.63	60.054		
2,200.0	2,173.8	2,022.1	2,001.4	6.4	4.8	-107.72	402.4	202.1	554.0	545.0	9.04	61.271		
2,300.0	2,271.4	2,100.0	2,075.5	6.8	5.2	-109.81	425.7	197.0	592.0	582.6	9.41	62.942		
2,400.0	2,369.0	2,180.7	2,151.7	7.2	5.6	-111.83	451.6	190.6	632.9	623.2	9.78	64.704		
2,500.0	2,466.5	2,274.1	2,240.0	7.7	6.1	-113.79	481.4	184.6	674.3	664.0	10.24	65.868		
2,600.0	2,564.1	2,363.4	2,324.4	8.1	6.6	-115.28	510.2	180.8	716.0	705.3	10.68	67.031		
2,700.0	2,661.7	2,452.4	2,408.6	8.5	7.1	-116.70	538.6	175.7	758.0	746.9	11.12	68.149		
2,800.0	2,759.2	2,540.1	2,491.5	8.9	7.6	-117.99	566.5	170.4	800.5	789.0	11.56	69.239		
2,900.0	2,856.8	2,624.0	2,570.9	9.3	8.1	-119.11	593.5	165.2	843.7	831.7	11.98	70.395		
3,000.0	2,954.4	2,705.2	2,647.3	9.8	8.6	-120.10	620.2	159.9	887.8	875.4	12.40	71.605		
3,100.0	3,052.0	2,790.6	2,727.6	10.2	9.1	-121.02	649.0	154.6	932.8	920.0	12.84	72.632		
3,200.0	3,149.5	2,884.9	2,816.4	10.6	9.7	-121.99	680.3	148.3	977.7	964.3	13.34	73.301		
3,300.0	3,247.1	2,981.8	2,907.7	11.0	10.2	-122.90	711.8	141.7	1,022.2	1,008.4	13.85	73.815		
3,400.0	3,344.7	3,078.4	2,999.1	11.4	10.8	-123.77	742.2	135.0	1,066.1	1,051.7	14.36	74.250		
3,500.0	3,442.2	3,170.6	3,086.5	11.9	11.3	-124.52	771.0	128.7	1,109.7	1,094.8	14.85	74.731		
3,600.0	3,539.8	3,272.6	3,183.4	12.3	11.9	-125.28	802.2	122.1	1,152.9	1,137.5	15.39	74.901		
3,700.0	3,637.4	3,405.4	3,310.6	12.7	12.5	-126.24	839.4	113.7	1,193.8	1,177.8	16.08	74.250		
3,800.0	3,734.9	3,520.0	3,421.1	13.1	13.1	-126.99	869.0	107.8	1,232.7	1,216.0	16.67	73.930		
3,900.0	3,832.5	3,628.1	3,525.9	13.6	13.6	-127.66	895.2	102.6	1,270.0	1,252.7	17.24	73.671		
4,000.0	3,930.1	3,726.0	3,620.9	14.0	14.0	-128.19	918.5	99.1	1,306.6	1,288.9	17.77	73.539		
4,100.0	4,027.7	3,812.2	3,704.5	14.4	14.4	-128.60	939.4	96.7	1,343.4	1,325.2	18.25	73.599		
4,200.0	4,125.2	3,898.0	3,787.5	14.8	14.8	-128.94	961.0	94.8	1,380.8	1,362.1	18.74	73.665		
4,300.0	4,222.8	3,981.0	3,867.6	15.3	15.2	-129.24	982.6	93.2	1,418.9	1,399.7	19.23	73.795		
4,400.0	4,320.4	4,047.0	3,931.1	15.7	15.6	-129.46	1,000.4	91.7	1,458.0	1,438.4	19.62	74.296		
4,500.0	4,417.9	4,110.7	3,992.2	16.1	15.9	-129.67	1,018.5	89.8	1,498.7	1,478.7	20.01	74.892		
8,900.0	7,500.0	7,674.4	7,490.8	35.4	27.2	-89.95	1,562.0	-14.0	1,467.8	1,412.3	55.48	26.458		
9,000.0	7,500.0	7,675.4	7,491.8	36.5	27.2	-89.99	1,562.0	-14.0	1,441.1	1,384.5	56.55	25.482		
9,100.0	7,500.0	7,676.4	7,492.8	37.6	27.2	-90.03	1,562.0	-14.0	1,420.9	1,363.5	57.48	24.722		
9,200.0	7,500.0	7,677.4	7,493.8	38.8	27.2	-90.07	1,562.0	-14.0	1,407.6	1,349.4	58.22	24.177		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 926-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)					
9,300.0	7,500.0	7,678.4	7,494.8	40.0	27.2	-90.11	1,562.0	-14.0	1,401.3	1,342.5	58.76	23.849			
9,338.5	7,500.0	7,678.8	7,495.2	40.5	27.2	-90.13	1,562.0	-14.0	1,400.8	1,341.9	58.91	23.779			
9,400.0	7,500.0	7,679.4	7,495.8	41.3	27.2	-90.15	1,562.0	-14.0	1,402.1	1,343.0	59.08	23.734 SF			
9,500.0	7,500.0	7,680.4	7,496.8	42.6	27.2	-90.19	1,562.0	-14.0	1,410.1	1,350.9	59.18	23.828			
9,600.0	7,500.0	7,681.4	7,497.8	43.9	27.2	-90.24	1,562.0	-14.0	1,425.0	1,365.9	59.06	24.127			
9,700.0	7,500.0	7,682.4	7,498.8	45.2	27.2	-90.28	1,562.0	-14.0	1,446.7	1,387.9	58.75	24.623			
9,800.0	7,500.0	7,683.4	7,499.8	46.6	27.2	-90.32	1,562.0	-14.0	1,474.8	1,416.6	58.27	25.309			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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			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	99.69	-13.1	76.7	78.2						
100.0	100.0	91.5	91.5	0.1	0.1	99.63	-13.1	76.9	78.0	77.8	0.28	273.979			
200.0	200.0	191.2	191.2	0.3	0.3	99.58	-13.1	77.8	78.9	78.2	0.63	125.107			
300.0	300.0	291.3	291.3	0.5	0.5	-81.44	-13.6	78.7	79.6	78.6	0.98	80.911			
400.0	399.8	391.3	391.3	0.7	0.7	-84.68	-14.3	79.4	79.7	78.4	1.35	58.900			
500.0	499.6	491.2	491.2	0.9	0.8	-75.04	-15.1	79.9	79.1	77.3	1.73	45.671			
600.0	599.3	591.0	591.0	1.1	1.0	-67.04	-15.6	80.5	77.1	75.0	2.11	36.488			
700.0	699.0	690.9	690.9	1.3	1.2	-61.72	-16.0	80.8	73.9	71.4	2.50	29.507			
800.0	798.6	790.5	790.5	1.6	1.4	-59.58	-16.2	80.9	69.4	66.5	2.90	23.924			
900.0	898.0	890.2	890.2	1.8	1.5	-60.76	-16.2	80.9	64.2	60.8	3.31	19.357			
1,000.0	997.3	989.6	989.6	2.0	1.7	-65.70	-16.1	80.4	58.5	54.8	3.74	15.625			
1,100.0	1,096.5	1,088.7	1,088.7	2.3	1.9	-74.54	-16.2	79.9	53.5	49.3	4.18	12.781			
1,200.0	1,195.4	1,187.6	1,187.6	2.6	2.0	-87.94	-16.1	79.0	50.7	46.1	4.60	11.029			
1,218.4	1,213.6	1,205.7	1,205.7	2.7	2.1	-90.83	-16.0	78.8	50.6	46.0	4.67	10.842 CC, ES			
1,300.0	1,294.1	1,285.9	1,285.8	2.9	2.2	-104.18	-15.7	77.9	52.5	47.6	4.94	10.638 SF			
1,400.0	1,392.5	1,384.0	1,383.9	3.2	2.4	-119.47	-15.0	76.9	60.0	54.8	5.20	11.542			
1,500.0	1,490.6	1,481.6	1,481.6	3.6	2.6	-131.75	-14.1	75.6	72.7	67.3	5.43	13.381			
1,600.0	1,588.4	1,579.0	1,579.0	4.0	2.7	-140.91	-13.4	73.9	89.5	83.9	5.69	15.749			
1,700.0	1,686.0	1,676.2	1,676.1	4.4	2.9	-148.56	-12.7	72.1	109.3	103.3	5.96	18.323			
1,800.0	1,783.6	1,773.4	1,773.3	4.8	3.1	-153.67	-11.6	70.8	130.3	124.0	6.27	20.778			
1,900.0	1,881.1	1,869.9	1,869.8	5.2	3.2	-157.18	-10.2	69.6	152.2	145.6	6.59	23.090			
2,000.0	1,978.7	1,967.9	1,967.7	5.6	3.4	-159.78	-8.4	68.4	174.7	167.8	6.92	25.226			
2,100.0	2,076.3	2,066.4	2,066.2	6.0	3.6	-161.90	-7.3	67.5	196.8	189.5	7.26	27.094			
2,200.0	2,173.8	2,166.2	2,166.1	6.4	3.8	-163.79	-7.3	67.1	218.1	210.5	7.60	28.686			
2,300.0	2,271.4	2,263.6	2,263.4	6.8	3.9	-165.40	-7.9	66.8	239.2	231.2	7.94	30.131			
2,400.0	2,369.0	2,361.3	2,361.1	7.2	4.1	-166.77	-8.4	66.4	260.6	252.3	8.27	31.491			
2,500.0	2,466.5	2,458.7	2,458.5	7.7	4.3	-168.04	-9.6	66.1	281.7	273.1	8.61	32.717			
2,600.0	2,564.1	2,549.3	2,549.1	8.1	4.4	-169.32	-11.5	64.2	304.1	295.2	8.92	34.076			
2,700.0	2,661.7	2,642.3	2,641.9	8.5	4.6	-170.71	-13.6	59.6	329.0	319.8	9.25	35.585			
2,800.0	2,759.2	2,740.2	2,739.6	8.9	4.8	-172.35	-17.9	54.0	354.0	344.4	9.59	36.919			
2,900.0	2,856.8	2,833.3	2,832.3	9.3	5.0	-173.92	-23.2	48.0	379.4	369.4	9.92	38.226			
3,000.0	2,954.4	2,926.2	2,924.7	9.8	5.1	-175.51	-29.6	40.5	405.9	395.7	10.27	39.542			
3,100.0	3,052.0	3,017.5	3,015.5	10.2	5.3	-176.96	-36.1	32.4	433.6	422.9	10.61	40.848			
3,200.0	3,149.5	3,101.9	3,098.9	10.6	5.5	-178.45	-43.8	22.9	463.0	452.1	10.95	42.291			
3,300.0	3,247.1	3,197.8	3,193.5	11.0	5.8	179.85	-53.9	10.4	494.0	482.6	11.35	43.518			
3,400.0	3,344.7	3,291.2	3,285.7	11.4	6.0	178.48	-62.9	-1.2	525.0	513.3	11.75	44.698			
3,500.0	3,442.2	3,373.0	3,366.5	11.9	6.2	177.50	-69.8	-12.0	557.3	545.2	12.08	46.127			
3,600.0	3,539.8	3,461.0	3,453.1	12.3	6.4	176.44	-77.8	-25.7	591.6	579.2	12.47	47.456			
3,700.0	3,637.4	3,547.7	3,538.1	12.7	6.7	175.37	-86.7	-40.4	627.3	614.5	12.85	48.806			
3,800.0	3,734.9	3,635.0	3,623.4	13.1	7.0	174.37	-96.0	-56.0	663.9	650.7	13.25	50.093			
3,900.0	3,832.5	3,733.6	3,719.6	13.6	7.3	173.17	-108.6	-73.7	700.6	686.9	13.75	50.962			
4,000.0	3,930.1	3,820.8	3,804.4	14.0	7.6	172.06	-121.5	-89.5	737.3	723.1	14.19	51.955			
4,100.0	4,027.7	3,917.9	3,898.6	14.4	7.9	170.84	-137.1	-106.8	773.8	759.1	14.71	52.594			
4,200.0	4,125.2	3,996.9	3,975.2	14.8	8.2	169.92	-150.0	-121.6	811.4	796.3	15.12	53.665			
4,300.0	4,222.8	4,088.9	4,064.3	15.3	8.6	169.00	-164.1	-139.3	849.9	834.3	15.61	54.461			
4,400.0	4,320.4	4,190.8	4,163.3	15.7	9.0	168.12	-179.0	-158.5	888.2	872.1	16.15	54.998			
4,500.0	4,417.9	4,298.4	4,268.2	16.1	9.4	167.34	-193.9	-176.6	924.7	908.0	16.71	55.327			
4,600.0	4,515.5	4,413.6	4,381.1	16.5	9.8	166.67	-208.7	-194.4	960.2	942.9	17.31	55.481			
4,700.0	4,613.1	4,508.0	4,473.8	17.0	10.1	166.15	-221.0	-207.4	994.1	976.3	17.78	55.898			
4,800.0	4,710.6	4,596.0	4,560.1	17.4	10.4	165.68	-232.8	-219.9	1,028.4	1,010.1	18.23	56.405			
4,900.0	4,808.2	4,714.6	4,676.7	17.8	10.8	165.14	-247.9	-235.4	1,061.7	1,042.9	18.82	56.404			
5,000.0	4,905.8	4,845.6	4,806.3	18.3	11.2	164.80	-261.0	-249.4	1,093.0	1,073.6	19.42	56.278			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 103-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,003.3	4,968.8	4,928.9	18.7	11.4	164.71	-269.4	-258.2	1,120.8	1,100.9	19.92	56.258		
5,200.0	5,100.9	5,078.7	5,038.5	19.1	11.7	164.76	-274.6	-264.4	1,147.4	1,127.0	20.34	56.402		
5,300.0	5,198.5	5,189.4	5,149.0	19.5	11.9	164.92	-277.7	-268.9	1,172.5	1,151.7	20.73	56.548		
5,400.0	5,296.1	5,302.0	5,261.6	20.0	12.0	165.18	-278.7	-272.3	1,196.5	1,175.4	21.10	56.697		
5,500.0	5,393.6	5,417.8	5,377.4	20.4	12.2	165.52	-278.2	-273.5	1,218.8	1,197.3	21.46	56.798		
5,600.0	5,491.2	5,511.9	5,471.5	20.8	12.3	165.83	-276.8	-274.3	1,240.9	1,219.1	21.75	57.042		
5,700.0	5,588.8	5,613.7	5,573.2	21.2	12.4	166.18	-274.5	-275.0	1,263.0	1,241.0	22.06	57.247		
5,800.0	5,686.3	5,719.7	5,679.2	21.7	12.6	166.52	-272.6	-275.2	1,284.6	1,262.2	22.39	57.387		
5,900.0	5,783.9	5,812.7	5,772.2	22.1	12.7	166.80	-271.2	-275.2	1,306.0	1,283.3	22.68	57.581		
6,000.0	5,881.5	5,904.0	5,863.5	22.5	12.8	167.07	-269.6	-275.5	1,327.9	1,304.9	22.97	57.803		
6,100.0	5,979.0	5,997.0	5,956.5	22.9	13.0	167.32	-268.4	-276.3	1,350.2	1,326.9	23.28	57.990		
6,200.0	6,076.6	6,090.3	6,049.8	23.4	13.1	167.52	-268.2	-277.4	1,372.8	1,349.2	23.60	58.177		
6,300.0	6,174.2	6,188.3	6,147.8	23.8	13.2	167.73	-267.7	-278.7	1,395.5	1,371.6	23.91	58.369		
6,400.0	6,271.7	6,286.1	6,245.6	24.2	13.4	167.97	-266.2	-279.9	1,418.3	1,394.0	24.22	58.560		
6,500.0	6,369.3	6,383.7	6,343.2	24.7	13.5	168.20	-265.0	-281.0	1,441.0	1,416.4	24.53	58.732		
6,600.0	6,466.9	6,480.3	6,439.7	25.1	13.7	168.41	-264.1	-282.1	1,463.7	1,438.8	24.85	58.911		
6,700.0	6,564.5	6,575.9	6,535.3	25.5	13.8	168.62	-262.8	-283.3	1,486.5	1,461.4	25.15	59.107		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft	
Survey Program: 134-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			Total 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	48.53	212.4	240.3	320.9						
100.0	100.0	91.8	91.8	0.1	0.1	48.60	212.1	240.5	320.6	320.3	0.29	1,099.612			
153.6	153.6	144.7	144.6	0.2	0.2	48.69	211.6	240.7	320.5	320.0	0.47	682.609			
200.0	200.0	186.5	186.5	0.3	0.3	48.76	211.5	241.2	320.8	320.2	0.62	514.662			
300.0	300.0	276.3	276.3	0.5	0.5	-131.32	212.9	243.4	324.9	323.9	0.96	339.688			
400.0	399.8	369.1	368.9	0.7	0.6	-131.69	215.8	247.8	334.0	332.7	1.30	256.017			
500.0	499.6	459.2	458.8	0.9	0.8	-118.13	219.4	254.1	345.8	344.2	1.66	208.563			
600.0	599.3	551.2	550.2	1.1	1.1	-105.91	223.8	262.9	358.8	356.8	2.03	176.974			
700.0	699.0	643.4	641.7	1.3	1.3	-95.86	228.8	273.6	372.4	370.0	2.41	154.363			
800.0	798.6	733.6	730.8	1.6	1.6	-87.94	234.1	286.1	386.8	384.0	2.81	137.466			
900.0	898.0	830.1	825.8	1.8	1.9	-81.70	239.3	302.2	401.6	398.4	3.26	123.093			
1,000.0	997.3	935.3	929.3	2.0	2.3	-76.78	243.0	320.6	414.5	410.7	3.77	109.972			
1,100.0	1,096.5	1,033.4	1,025.7	2.3	2.7	-72.76	244.4	338.8	425.3	421.0	4.30	98.913			
1,200.0	1,195.4	1,122.1	1,112.2	2.6	3.0	-69.24	244.4	358.5	436.5	431.6	4.85	90.067			
1,300.0	1,294.1	1,212.2	1,199.3	2.9	3.5	-66.20	244.5	381.2	448.7	443.2	5.43	82.623			
1,400.0	1,392.5	1,306.0	1,289.6	3.2	3.9	-63.58	244.7	406.8	461.3	455.2	6.06	76.068			
1,500.0	1,490.6	1,405.5	1,385.0	3.6	4.5	-61.36	244.8	434.9	473.1	466.3	6.76	70.010			
1,600.0	1,588.4	1,510.8	1,485.9	4.0	5.0	-59.43	243.5	465.1	483.1	475.6	7.51	64.361			
1,700.0	1,686.0	1,607.5	1,578.8	4.4	5.5	-59.13	242.2	491.8	491.5	483.3	8.21	59.836			
1,800.0	1,783.6	1,702.6	1,670.2	4.8	6.0	-59.12	242.4	518.3	501.0	492.1	8.92	56.137			
1,900.0	1,881.1	1,798.8	1,762.3	5.2	6.5	-59.06	242.7	545.9	511.2	501.5	9.65	52.996			
2,000.0	1,978.7	1,906.8	1,865.6	5.6	7.1	-58.87	241.8	577.2	520.9	510.5	10.44	49.890			
2,100.0	2,076.3	2,010.5	1,965.0	6.0	7.6	-58.64	239.7	606.6	529.3	518.1	11.20	47.249			
2,200.0	2,173.8	2,111.6	2,062.3	6.4	8.2	-58.51	238.0	634.5	537.4	525.4	11.95	44.961			
2,300.0	2,271.4	2,213.7	2,160.4	6.8	8.7	-58.34	235.6	662.6	545.0	532.3	12.72	42.851			
2,400.0	2,369.0	2,316.1	2,258.8	7.2	9.2	-58.12	232.6	690.9	552.2	538.8	13.46	41.015			
2,500.0	2,466.5	2,417.2	2,356.2	7.7	9.7	-58.04	230.2	717.6	559.0	544.8	14.21	39.331			
2,600.0	2,564.1	2,518.5	2,453.8	8.1	10.3	-57.91	227.4	744.6	565.6	550.6	14.96	37.800			
2,700.0	2,661.7	2,621.1	2,553.0	8.5	10.8	-57.90	225.2	770.9	571.9	556.2	15.72	36.392			
2,800.0	2,759.2	2,725.4	2,653.8	8.9	11.3	-57.86	222.2	797.2	577.4	560.9	16.47	35.047			
2,900.0	2,856.8	2,831.4	2,756.7	9.3	11.7	-57.95	219.6	822.6	582.2	564.9	17.23	33.782			
3,000.0	2,954.4	2,937.0	2,859.7	9.8	12.2	-58.16	217.0	846.0	585.5	567.5	18.01	32.520			
3,100.0	3,052.0	3,032.0	2,952.4	10.2	12.6	-58.38	214.7	866.8	588.8	570.1	18.73	31.432			
3,200.0	3,149.5	3,116.5	3,034.5	10.6	13.0	-58.56	213.8	886.7	594.1	574.7	19.42	30.593			
3,300.0	3,247.1	3,214.1	3,129.1	11.0	13.5	-58.75	213.7	910.7	601.0	580.8	20.16	29.804			
3,400.0	3,344.7	3,314.9	3,226.7	11.4	13.9	-58.91	213.3	935.7	607.9	586.9	20.93	29.041			
3,500.0	3,442.2	3,422.8	3,331.2	11.9	14.5	-59.01	212.1	962.7	614.3	592.6	21.74	28.265			
3,600.0	3,539.8	3,528.0	3,433.0	12.3	15.0	-58.99	208.7	988.5	619.0	596.5	22.51	27.500			
3,700.0	3,637.4	3,630.7	3,532.7	12.7	15.4	-58.97	205.2	1,013.6	623.5	600.2	23.28	26.783			
3,800.0	3,734.9	3,723.0	3,622.2	13.1	15.9	-59.03	202.9	1,035.7	628.3	604.3	23.98	26.197			
3,900.0	3,832.5	3,817.3	3,713.8	13.6	16.3	-59.23	202.4	1,058.1	634.3	609.5	24.72	25.654			
4,000.0	3,930.1	3,922.4	3,815.9	14.0	16.8	-59.51	202.5	1,082.6	640.3	614.8	25.52	25.088			
4,100.0	4,027.7	4,032.5	3,923.2	14.4	17.3	-59.71	200.5	1,107.7	644.6	618.3	26.35	24.461			
4,200.0	4,125.2	4,124.3	4,012.4	14.8	17.7	-59.77	197.8	1,129.3	648.9	621.8	27.09	23.955			
4,300.0	4,222.8	4,214.0	4,099.0	15.3	18.1	-59.74	195.7	1,152.2	654.9	627.1	27.80	23.554			
4,400.0	4,320.4	4,316.4	4,197.8	15.7	18.7	-59.65	193.3	1,179.3	661.6	633.0	28.56	23.168			
4,500.0	4,417.9	4,430.6	4,308.8	16.1	19.1	-59.83	191.7	1,206.1	666.8	637.4	29.38	22.699			
4,600.0	4,515.5	4,535.9	4,411.8	16.5	19.6	-60.25	191.4	1,227.7	670.5	640.3	30.19	22.209			
4,700.0	4,613.1	4,639.3	4,513.3	17.0	19.9	-60.75	191.3	1,247.6	673.5	642.5	31.02	21.716			
4,800.0	4,710.6	4,740.3	4,612.6	17.4	20.3	-61.34	191.8	1,266.0	676.3	644.5	31.84	21.243			
4,900.0	4,808.2	4,849.5	4,720.3	17.8	20.7	-62.16	193.5	1,283.9	678.6	645.8	32.72	20.739			
5,000.0	4,905.8	4,961.7	4,831.4	18.3	21.0	-63.16	195.1	1,299.4	679.1	645.5	33.62	20.197			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 134-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset				Semi Major Axis		Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
5,100.0	5,003.3	5,074.3	4,943.3	18.7	21.2	-64.35	196.8	1,312.2	678.2	643.6	34.54	19.634			
5,200.0	5,100.9	5,188.2	5,056.8	19.1	21.4	-65.80	198.4	1,321.1	675.0	639.6	35.47	19.031			
5,300.0	5,198.5	5,297.4	5,165.9	19.5	21.6	-67.35	199.6	1,327.0	670.6	634.2	36.41	18.419			
5,400.0	5,296.1	5,402.6	5,270.9	20.0	21.7	-68.97	200.4	1,331.0	665.3	627.9	37.34	17.817			
5,500.0	5,393.6	5,504.9	5,373.2	20.4	21.8	-70.64	200.9	1,333.7	659.5	621.3	38.27	17.233			
5,600.0	5,491.2	5,603.0	5,471.3	20.8	21.9	-72.31	201.5	1,335.7	654.1	615.0	39.20	16.689			
5,700.0	5,588.8	5,701.6	5,569.9	21.2	22.0	-74.05	202.3	1,337.4	649.3	609.2	40.11	16.186			
5,800.0	5,686.3	5,800.5	5,668.8	21.7	22.1	-75.84	203.1	1,338.7	644.9	603.9	41.02	15.723			
5,900.0	5,783.9	5,901.3	5,769.6	22.1	22.2	-77.73	203.9	1,339.6	640.9	599.0	41.90	15.297			
6,000.0	5,881.5	6,001.6	5,869.9	22.5	22.2	-79.69	204.5	1,339.6	637.1	594.4	42.76	14.900			
6,100.0	5,979.0	6,096.9	5,965.2	22.9	22.3	-81.59	205.2	1,339.4	634.1	590.5	43.60	14.544			
6,200.0	6,076.6	6,192.7	6,060.9	23.4	22.4	-83.50	206.2	1,339.5	632.1	587.7	44.39	14.238			
6,300.0	6,174.2	6,289.2	6,157.4	23.8	22.5	-85.44	207.3	1,339.6	631.1	586.0	45.16	13.976			
6,355.8	6,228.6	6,343.0	6,211.3	24.0	22.5	-86.53	208.1	1,339.6	631.0	585.4	45.56	13.848			
6,400.0	6,271.7	6,385.7	6,254.0	24.2	22.6	-87.40	208.7	1,339.6	631.1	585.2	45.88	13.756			
6,500.0	6,369.3	6,482.2	6,350.4	24.7	22.6	-89.38	210.3	1,339.3	631.9	585.4	46.55	13.575			
6,600.0	6,466.9	6,578.8	6,447.0	25.1	22.7	-91.38	212.0	1,338.9	633.8	586.6	47.18	13.433			
6,700.0	6,564.5	6,675.6	6,543.8	25.5	22.8	-93.35	213.9	1,338.7	636.5	588.8	47.78	13.323			
6,800.0	6,662.0	6,773.1	6,641.3	25.9	22.9	-95.31	215.7	1,338.5	640.1	591.8	48.32	13.247			
6,900.0	6,759.6	6,871.3	6,739.4	26.4	23.0	-95.70	217.6	1,338.3	644.4	595.6	48.82	13.201			
7,000.0	6,857.3	6,975.7	6,843.8	26.7	23.1	-61.76	218.7	1,337.9	641.2	591.9	49.26	13.015			
7,100.0	6,953.8	7,069.9	6,938.0	27.0	23.1	-38.55	219.7	1,337.6	624.7	575.1	49.64	12.584			
7,200.0	7,047.4	7,162.4	7,030.5	27.3	23.2	-26.99	220.7	1,337.5	595.4	545.5	49.99	11.911			
7,300.0	7,136.1	7,249.2	7,117.3	27.5	23.3	-21.36	222.1	1,337.4	554.1	503.8	50.30	11.017			
7,400.0	7,218.3	7,332.1	7,200.2	27.6	23.4	-18.98	223.7	1,337.1	501.3	450.7	50.58	9.910			
7,500.0	7,292.4	7,407.6	7,275.7	27.7	23.5	-18.92	225.0	1,336.6	437.6	386.8	50.83	8.608			
7,600.0	7,356.9	7,473.7	7,341.7	27.9	23.5	-21.34	226.1	1,336.1	364.4	313.4	51.04	7.139			
7,700.0	7,410.5	7,528.8	7,396.9	28.1	23.6	-27.82	227.0	1,335.8	283.4	232.3	51.15	5.541			
7,800.0	7,452.2	7,572.1	7,440.1	28.3	23.6	-42.53	227.7	1,335.6	197.0	146.1	50.90	3.870			
7,900.0	7,481.2	7,602.6	7,470.6	28.5	23.6	-69.09	228.1	1,335.4	110.4	62.1	48.30	2.286			
7,996.5	7,496.7	7,619.4	7,487.5	28.8	23.6	-89.80	228.4	1,335.4	57.7	29.8	27.85	2.072 CC, ES, SF			
8,000.0	7,497.0	7,619.8	7,487.9	28.9	23.6	-90.15	228.4	1,335.4	57.8	30.3	27.46	2.104			
8,100.0	7,500.0	7,624.2	7,492.3	29.2	23.7	-91.29	228.4	1,335.4	117.6	72.7	44.90	2.620			
8,200.0	7,500.0	7,625.7	7,493.8	29.7	23.7	-92.72	228.4	1,335.4	210.4	161.3	49.05	4.289			
8,300.0	7,500.0	7,627.2	7,495.2	30.3	23.7	-94.14	228.5	1,335.4	307.7	257.5	50.22	6.126			
8,400.0	7,500.0	7,628.6	7,496.7	31.0	23.7	-95.56	228.5	1,335.4	406.3	355.5	50.77	8.003			
8,500.0	7,500.0	7,630.1	7,498.1	31.7	23.7	-96.97	228.5	1,335.3	505.5	454.4	51.09	9.893			
8,600.0	7,500.0	7,631.5	7,499.6	32.5	23.7	-98.38	228.5	1,335.3	604.9	553.6	51.33	11.785			
8,700.0	7,500.0	7,633.0	7,501.1	33.4	23.7	-99.77	228.5	1,335.3	704.5	653.0	51.51	13.676			
8,800.0	7,500.0	7,634.4	7,502.5	34.4	23.7	-101.14	228.6	1,335.3	804.2	752.5	51.67	15.564			
8,900.0	7,500.0	7,635.9	7,504.0	35.4	23.7	-102.50	228.6	1,335.3	903.9	852.1	51.81	17.448			
9,000.0	7,500.0	7,637.3	7,505.4	36.5	23.7	-103.85	228.6	1,335.3	1,003.7	951.8	51.93	19.327			
9,100.0	7,500.0	7,638.8	7,506.9	37.6	23.7	-105.18	228.6	1,335.3	1,103.6	1,051.5	52.05	21.200			
9,200.0	7,500.0	7,640.2	7,508.3	38.8	23.7	-106.49	228.7	1,335.3	1,203.4	1,151.2	52.17	23.068			
9,300.0	7,500.0	7,641.7	7,509.7	40.0	23.7	-107.78	228.7	1,335.3	1,303.3	1,251.0	52.28	24.930			
9,400.0	7,500.0	7,643.1	7,511.2	41.3	23.7	-109.05	228.7	1,335.3	1,403.2	1,350.8	52.38	26.787			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	37.57	953.3	733.3	1,203.4						
100.0	100.0	61.0	61.0	0.1	0.1	37.57	953.3	733.3	1,202.7	1,202.5	0.26	4,716.557			
200.0	200.0	161.0	161.0	0.3	0.3	37.57	953.3	733.3	1,202.7	1,202.1	0.60	1,991.140			
300.0	300.0	261.0	261.0	0.5	0.5	-142.47	953.3	733.3	1,204.1	1,203.2	0.95	1,261.600			
400.0	399.8	360.8	360.8	0.7	0.6	-142.57	953.3	733.3	1,208.3	1,207.0	1.31	921.682			
500.0	499.6	460.6	460.6	0.9	0.8	-128.66	953.3	733.3	1,213.3	1,211.6	1.68	724.133			
600.0	599.3	560.3	560.3	1.1	1.0	-116.20	953.3	733.3	1,217.2	1,215.2	2.05	593.748			
700.0	699.0	660.0	660.0	1.3	1.2	-106.00	953.3	733.3	1,220.1	1,217.7	2.44	500.798			
800.0	798.6	759.6	759.6	1.6	1.3	-98.07	953.3	733.3	1,222.0	1,219.2	2.84	430.897			
900.0	898.0	865.5	865.5	1.8	1.6	-92.08	953.3	733.3	1,222.9	1,219.5	3.31	369.965			
1,000.0	997.3	1,036.0	1,035.8	2.0	2.5	-88.02	949.2	728.9	1,219.4	1,215.2	4.17	292.275			
1,100.0	1,096.5	1,204.0	1,203.1	2.3	3.6	-85.27	938.3	717.4	1,209.3	1,204.4	4.88	247.758			
1,200.0	1,195.4	1,368.2	1,365.4	2.6	4.7	-83.60	921.2	699.3	1,192.9	1,187.3	5.51	216.322			
1,300.0	1,294.1	1,527.2	1,520.9	2.9	5.8	-82.83	898.6	675.4	1,170.5	1,164.4	6.11	191.498			
1,400.0	1,392.5	1,679.9	1,668.4	3.2	6.8	-82.84	871.3	646.6	1,142.8	1,136.1	6.71	170.433			
1,500.0	1,490.6	1,825.5	1,806.7	3.6	7.8	-83.56	840.3	613.8	1,110.2	1,102.9	7.32	151.691			
1,600.0	1,588.4	1,963.3	1,935.5	4.0	8.7	-84.93	806.5	578.1	1,073.4	1,065.4	7.98	134.533			
1,700.0	1,686.0	2,066.3	2,030.3	4.4	9.4	-87.03	778.8	548.9	1,034.1	1,025.3	8.74	118.353			
1,800.0	1,783.6	2,151.7	2,108.7	4.8	10.1	-89.03	755.7	524.4	995.6	986.0	9.58	103.933			
1,900.0	1,881.1	2,237.0	2,187.1	5.2	10.7	-91.15	732.5	499.9	958.4	947.9	10.48	91.445			
2,000.0	1,978.7	2,322.3	2,265.5	5.6	11.3	-93.42	709.3	475.5	922.7	911.3	11.45	80.617			
2,100.0	2,076.3	2,407.6	2,343.8	6.0	12.0	-95.83	686.2	451.0	888.6	876.2	12.48	71.230			
2,200.0	2,173.8	2,492.9	2,422.2	6.4	12.6	-98.39	663.0	426.5	856.4	842.8	13.57	63.103			
2,300.0	2,271.4	2,578.2	2,500.6	6.8	13.2	-101.11	639.9	402.1	826.1	811.4	14.73	56.084			
2,400.0	2,369.0	2,663.6	2,579.0	7.2	13.8	-103.99	616.7	377.6	798.2	782.2	15.95	50.045			
2,500.0	2,466.5	2,748.9	2,657.4	7.7	14.5	-107.02	593.5	353.1	772.7	755.5	17.22	44.876			
2,600.0	2,564.1	2,834.2	2,735.8	8.1	15.1	-110.20	570.4	328.6	750.0	731.5	18.53	40.481			
2,700.0	2,661.7	2,919.5	2,814.1	8.5	15.7	-113.52	547.2	304.2	730.4	710.5	19.86	36.776			
2,800.0	2,759.2	3,004.8	2,892.5	8.9	16.3	-116.96	524.1	279.7	714.0	692.8	21.20	33.686			
2,900.0	2,856.8	3,090.1	2,970.9	9.3	17.0	-120.52	500.9	255.2	701.2	678.7	22.51	31.147			
3,000.0	2,954.4	3,175.5	3,049.3	9.8	17.6	-124.15	477.8	230.8	692.0	668.2	23.78	29.099			
3,100.0	3,052.0	3,260.8	3,127.7	10.2	18.2	-127.84	454.6	206.3	686.7	661.7	24.98	27.488			
3,184.6	3,134.5	3,332.9	3,194.0	10.5	18.8	-130.99	435.0	185.6	685.3	659.3	25.93	26.431 CC			
3,200.0	3,149.5	3,346.1	3,206.1	10.6	18.9	-131.56	431.4	181.8	685.3	659.2	26.09	26.267 ES			
3,300.0	3,247.1	3,431.4	3,284.4	11.0	19.5	-135.27	408.3	157.3	687.9	660.8	27.09	25.390			
3,400.0	3,344.7	3,516.7	3,362.8	11.4	20.1	-138.95	385.1	132.9	694.4	666.4	27.98	24.818			
3,500.0	3,442.2	3,602.0	3,441.2	11.9	20.7	-142.56	362.0	108.4	704.7	676.0	28.75	24.514			
3,600.0	3,539.8	3,687.4	3,519.6	12.3	21.4	-146.09	338.8	83.9	718.7	689.3	29.41	24.441 SF			
3,700.0	3,637.4	3,772.7	3,598.0	12.7	22.0	-149.49	316.6	59.5	736.1	706.2	29.96	24.569			
3,800.0	3,734.9	3,858.0	3,676.4	13.1	22.6	-152.77	292.5	35.0	756.7	726.3	30.43	24.868			
3,900.0	3,832.5	3,943.3	3,754.7	13.6	23.3	-155.91	269.3	10.5	780.3	749.5	30.83	25.310			
4,000.0	3,930.1	4,028.6	3,833.1	14.0	23.9	-158.89	246.2	-14.0	806.5	775.4	31.18	25.871			
4,100.0	4,027.7	4,113.9	3,911.5	14.4	24.5	-161.72	223.0	-38.4	835.2	803.7	31.49	26.527			
4,200.0	4,125.2	4,199.3	3,989.9	14.8	25.1	-164.39	199.9	-62.9	866.1	834.3	31.77	27.260			
4,300.0	4,222.8	4,284.6	4,068.3	15.3	25.8	-166.91	176.7	-87.4	899.0	866.9	32.05	28.051			
4,400.0	4,320.4	4,369.9	4,146.7	15.7	26.4	-169.27	153.5	-111.8	933.6	901.2	32.32	28.885			
4,500.0	4,417.9	4,455.2	4,225.0	16.1	27.0	-171.49	130.4	-136.3	969.7	937.2	32.60	29.751			
4,600.0	4,515.5	4,540.5	4,303.4	16.5	27.6	-173.58	107.2	-160.8	1,007.3	974.5	32.88	30.637			
4,700.0	4,613.1	4,625.9	4,381.8	17.0	28.3	-175.53	84.1	-185.3	1,046.2	1,013.0	33.17	31.536			
4,800.0	4,710.6	4,711.2	4,460.2	17.4	28.9	-177.36	60.9	-209.7	1,086.1	1,052.6	33.48	32.441			
4,900.0	4,808.2	4,796.5	4,538.6	17.8	29.5	-179.08	37.7	-234.2	1,127.1	1,093.3	33.80	33.345			
5,000.0	4,905.8	4,881.8	4,617.0	18.3	30.2	179.32	14.6	-258.7	1,168.9	1,134.8	34.13	34.246			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													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			
5,100.0	5,003.3	4,967.1	4,695.3	18.7	30.8	177.81	-8.6	-283.1	1,211.6	1,177.1	34.48	35.139			
5,200.0	5,100.9	5,052.4	4,773.7	19.1	31.4	176.39	-31.7	-307.6	1,254.9	1,220.1	34.84	36.023			
5,300.0	5,198.5	5,137.8	4,852.1	19.5	32.0	175.06	-54.9	-332.1	1,298.9	1,263.7	35.21	36.895			
5,400.0	5,296.1	5,223.1	4,930.5	20.0	32.7	173.81	-78.1	-356.6	1,343.5	1,307.9	35.59	37.754			
5,500.0	5,393.6	5,308.4	5,008.9	20.4	33.3	172.64	-101.2	-381.0	1,388.6	1,352.7	35.98	38.598			
5,600.0	5,491.2	5,393.7	5,087.2	20.8	33.9	171.53	-124.4	-405.5	1,434.2	1,397.9	36.38	39.428			
5,700.0	5,588.8	5,479.0	5,165.6	21.2	34.6	170.49	-147.5	-430.0	1,480.3	1,443.5	36.78	40.243			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	37.99	953.4	744.5	1,210.2						
100.0	100.0	61.0	61.0	0.1	0.1	37.99	953.4	744.5	1,209.6	1,209.3	0.26	4,743.468			
200.0	200.0	161.0	161.0	0.3	0.3	37.99	953.4	744.5	1,209.6	1,209.0	0.60	2,002.500			
300.0	300.0	261.0	261.0	0.5	0.5	-142.05	953.4	744.5	1,211.0	1,210.0	0.95	1,268.747			
400.0	399.8	360.8	360.8	0.7	0.6	-142.15	953.4	744.5	1,215.1	1,213.8	1.31	926.770			
500.0	499.6	460.6	460.6	0.9	0.8	-128.24	953.4	744.5	1,220.1	1,218.4	1.68	728.019			
600.0	599.3	560.3	560.3	1.1	1.0	-115.78	953.4	744.5	1,224.0	1,221.9	2.05	596.855			
700.0	699.0	660.0	660.0	1.3	1.2	-105.58	953.4	744.5	1,226.8	1,224.4	2.44	503.364			
800.0	798.6	759.6	759.6	1.6	1.3	-97.65	953.4	744.5	1,228.6	1,225.8	2.84	433.066			
900.0	898.0	863.9	863.9	1.8	1.5	-91.65	953.3	744.5	1,229.4	1,226.1	3.27	375.857			
1,000.0	997.3	1,017.2	1,017.1	2.0	2.1	-87.30	948.5	744.4	1,226.7	1,222.7	3.92	313.245			
1,100.0	1,096.5	1,170.3	1,169.7	2.3	2.8	-83.93	935.5	744.3	1,218.6	1,214.0	4.58	266.344			
1,200.0	1,195.4	1,322.4	1,320.2	2.6	3.4	-81.29	914.5	744.0	1,205.1	1,199.9	5.24	229.836			
1,300.0	1,294.1	1,472.4	1,467.5	2.9	3.9	-79.20	886.0	743.6	1,186.4	1,180.5	5.92	200.514			
1,400.0	1,392.5	1,618.2	1,609.0	3.2	4.5	-77.51	851.0	743.2	1,162.6	1,156.0	6.59	176.397			
1,500.0	1,490.6	1,714.5	1,701.9	3.6	5.0	-76.12	825.5	742.8	1,135.8	1,128.6	7.22	157.301			
1,600.0	1,588.4	1,810.4	1,794.4	4.0	5.5	-75.10	800.2	742.5	1,108.1	1,100.2	7.87	140.850			
1,700.0	1,686.0	1,906.1	1,886.7	4.4	5.9	-75.32	775.0	742.2	1,079.9	1,071.4	8.52	126.808			
1,800.0	1,783.6	2,001.8	1,979.0	4.8	6.4	-75.71	749.7	741.9	1,051.7	1,042.5	9.17	114.750			
1,900.0	1,881.1	2,097.5	2,071.3	5.2	6.9	-76.12	724.4	741.5	1,023.6	1,013.7	9.81	104.298			
2,000.0	1,978.7	2,193.2	2,163.6	5.6	7.3	-76.56	699.2	741.2	995.5	985.0	10.46	95.162			
2,100.0	2,076.3	2,288.8	2,255.9	6.0	7.8	-77.02	673.9	740.9	967.4	956.3	11.11	87.116			
2,200.0	2,173.8	2,384.5	2,348.2	6.4	8.3	-77.51	648.6	740.6	939.5	927.7	11.75	79.981			
2,300.0	2,271.4	2,480.2	2,440.5	6.8	8.7	-78.02	623.4	740.2	911.6	899.2	12.38	73.615			
2,400.0	2,369.0	2,575.9	2,532.7	7.2	9.2	-78.57	598.1	739.9	883.7	870.7	13.01	67.904			
2,500.0	2,466.5	2,671.6	2,625.0	7.7	9.7	-79.16	572.8	739.6	856.0	842.3	13.64	62.755			
2,600.0	2,564.1	2,767.3	2,717.3	8.1	10.1	-79.78	547.6	739.3	828.3	814.1	14.26	58.092			
2,700.0	2,661.7	2,863.0	2,809.6	8.5	10.6	-80.45	522.3	738.9	800.8	785.9	14.87	53.852			
2,800.0	2,759.2	2,958.7	2,901.9	8.9	11.1	-81.16	497.1	738.6	773.3	757.8	15.47	49.982			
2,900.0	2,856.8	3,054.4	2,994.2	9.3	11.6	-81.93	471.8	738.3	746.0	729.9	16.06	46.440			
3,000.0	2,954.4	3,150.0	3,086.5	9.8	12.0	-82.75	446.5	738.0	718.8	702.1	16.64	43.187			
3,100.0	3,052.0	3,245.7	3,178.8	10.2	12.5	-83.64	421.3	737.6	691.7	674.5	17.21	40.193			
3,200.0	3,149.5	3,341.4	3,271.1	10.6	13.0	-84.59	396.0	737.3	664.8	647.1	17.76	37.431			
3,300.0	3,247.1	3,437.1	3,363.4	11.0	13.4	-85.63	370.7	737.0	638.1	619.8	18.30	34.877			
3,400.0	3,344.7	3,532.8	3,455.7	11.4	13.9	-86.76	345.5	736.7	611.7	592.8	18.81	32.512			
3,500.0	3,442.2	3,628.5	3,548.0	11.9	14.4	-87.98	320.2	736.3	585.4	566.1	19.31	30.320			
3,600.0	3,539.8	3,724.2	3,640.3	12.3	14.8	-89.32	294.9	736.0	559.5	539.7	19.78	28.284			
3,700.0	3,637.4	3,819.9	3,732.6	12.7	15.3	-90.78	269.7	735.7	533.8	513.6	20.23	26.393			
3,800.0	3,734.9	3,915.6	3,824.9	13.1	15.8	-92.39	244.4	735.3	508.5	487.9	20.64	24.635			
3,900.0	3,832.5	4,011.3	3,917.2	13.6	16.2	-94.16	219.2	735.0	483.7	462.7	21.03	22.999			
4,000.0	3,930.1	4,106.9	4,009.5	14.0	16.7	-96.12	193.9	734.7	459.3	437.9	21.39	21.476			
4,100.0	4,027.7	4,202.6	4,101.7	14.4	17.2	-98.28	168.6	734.4	435.5	413.8	21.72	20.056			
4,200.0	4,125.2	4,298.3	4,194.0	14.8	17.6	-100.68	143.4	734.0	412.4	390.4	22.02	18.729			
4,300.0	4,222.8	4,394.0	4,286.3	15.3	18.1	-103.36	118.1	733.7	390.1	367.8	22.31	17.485			
4,400.0	4,320.4	4,489.7	4,378.6	15.7	18.6	-106.33	92.8	733.4	368.7	346.1	22.61	16.310			
4,500.0	4,417.9	4,585.4	4,470.9	16.1	19.0	-109.65	67.6	733.1	348.4	325.5	22.93	15.193			
4,600.0	4,515.5	4,681.1	4,563.2	16.5	19.5	-113.34	42.3	732.7	329.5	306.2	23.33	14.123			
4,700.0	4,613.1	4,776.8	4,655.5	17.0	20.0	-117.44	17.0	732.4	312.1	288.2	23.83	13.097			
4,800.0	4,710.6	4,872.5	4,747.8	17.4	20.4	-121.97	-8.2	732.1	296.5	272.0	24.46	12.123			
4,900.0	4,808.2	4,968.2	4,840.1	17.8	20.9	-126.94	-33.5	731.8	283.1	257.8	25.23	11.221			
5,000.0	4,905.8	5,063.8	4,932.4	18.3	21.4	-132.31	-58.8	731.4	272.1	246.0	26.11	10.420			
5,100.0	5,003.3	5,159.5	5,024.7	18.7	21.8	-138.06	-84.0	731.1	263.8	236.7	27.07	9.745			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,255.2	5,117.0	19.1	22.3	-144.07	-109.3	730.8	258.6	230.5	28.06	9.215		
5,300.0	5,198.5	5,350.9	5,209.3	19.5	22.8	-150.25	-134.5	730.5	256.6	227.5	29.04	8.834		
5,311.9	5,210.1	5,362.3	5,220.2	19.6	22.8	-150.98	-137.5	730.4	256.5	227.4	29.16	8.799	CC, ES	
5,400.0	5,296.1	5,446.6	5,301.6	20.0	23.3	-156.44	-159.8	730.1	257.8	227.8	30.00	8.593		
5,500.0	5,393.6	5,542.3	5,393.9	20.4	23.7	-162.50	-185.1	729.8	262.3	231.3	30.97	8.470		
5,600.0	5,491.2	5,638.0	5,486.2	20.8	24.2	-168.32	-210.3	729.5	269.8	237.9	31.98	8.438	SF	
5,700.0	5,588.8	5,733.7	5,578.4	21.2	24.7	-173.79	-235.6	729.2	280.2	247.1	33.07	8.472		
5,800.0	5,686.3	5,829.4	5,670.7	21.7	25.1	-178.85	-260.9	728.8	293.1	258.8	34.26	8.556		
5,900.0	5,783.9	5,925.1	5,763.0	22.1	25.6	176.52	-286.1	728.5	308.2	272.7	35.51	8.680		
6,000.0	5,881.5	6,020.7	5,855.3	22.5	26.1	172.32	-311.4	728.2	325.2	288.4	36.78	8.841		
6,100.0	5,979.0	6,116.4	5,947.6	22.9	26.5	168.53	-336.7	727.9	343.8	305.8	38.05	9.035		
6,200.0	6,076.6	6,212.1	6,039.9	23.4	27.0	165.12	-361.9	727.5	363.8	324.5	39.28	9.261		
6,300.0	6,174.2	6,307.8	6,132.2	23.8	27.5	162.07	-387.2	727.2	384.9	344.5	40.47	9.512		
6,400.0	6,271.7	6,403.5	6,224.5	24.2	27.9	159.33	-412.4	726.9	407.0	365.4	41.60	9.785		
6,500.0	6,369.3	6,499.2	6,316.8	24.7	28.4	156.86	-437.7	726.6	430.0	387.3	42.68	10.075		
6,600.0	6,466.9	6,595.8	6,410.1	25.1	28.7	154.66	-463.0	726.2	453.6	410.0	43.57	10.411		
6,700.0	6,564.5	6,694.8	6,506.3	25.5	28.8	152.95	-486.2	725.9	477.2	433.1	44.15	10.809		
6,800.0	6,662.0	6,794.9	6,604.4	25.9	28.9	151.79	-506.3	725.7	500.6	455.9	44.67	11.207		
6,900.0	6,759.6	6,895.9	6,703.9	26.4	28.9	152.77	-523.1	725.5	523.3	478.2	45.12	11.600		
7,000.0	6,857.3	6,996.7	6,803.9	26.7	29.0	-170.54	-536.3	725.3	547.0	501.5	45.49	12.025		
7,100.0	6,953.8	7,096.2	6,902.9	27.0	29.1	-145.73	-545.9	725.2	573.0	527.1	45.83	12.503		
7,200.0	7,047.4	7,193.5	7,000.0	27.3	29.2	-133.21	-552.0	725.1	601.7	555.6	46.09	13.057		
7,300.0	7,136.1	7,287.8	7,094.3	27.5	29.2	-126.87	-554.7	725.1	634.0	587.8	46.22	13.719		
7,400.0	7,218.3	7,372.9	7,179.3	27.6	29.3	-123.20	-554.9	725.0	670.9	624.7	46.17	14.529		
7,500.0	7,292.4	7,447.0	7,253.4	27.7	29.3	-120.56	-554.9	725.0	714.0	668.1	45.95	15.538		
7,600.0	7,356.9	7,511.4	7,317.9	27.9	29.4	-118.02	-554.9	725.0	764.2	718.7	45.54	16.780		
7,700.0	7,410.5	7,565.0	7,371.5	28.1	29.4	-114.81	-554.9	725.0	821.7	776.7	44.97	18.273		
7,800.0	7,452.2	7,606.8	7,413.2	28.3	29.5	-110.37	-554.9	725.0	886.0	841.8	44.27	20.015		
7,900.0	7,481.2	7,635.8	7,442.2	28.5	29.5	-104.24	-554.9	725.0	956.4	912.9	43.50	21.986		
8,000.0	7,497.0	7,651.6	7,458.0	28.9	29.5	-96.23	-554.9	725.0	1,031.4	988.7	42.71	24.147		
8,100.0	7,500.0	7,654.6	7,461.0	29.2	29.5	-90.00	-554.9	725.0	1,109.5	1,067.6	41.95	26.451		
8,200.0	7,500.0	7,654.6	7,461.0	29.7	29.5	-90.00	-554.9	725.0	1,190.6	1,149.3	41.25	28.864		
8,300.0	7,500.0	7,654.6	7,461.0	30.3	29.5	-90.00	-554.9	725.0	1,274.3	1,233.7	40.63	31.365		
8,400.0	7,500.0	7,654.6	7,461.0	31.0	29.5	-90.00	-554.9	725.0	1,360.3	1,320.2	40.09	33.932		
8,500.0	7,500.0	7,654.6	7,461.0	31.7	29.5	-90.00	-554.9	725.0	1,448.0	1,408.4	39.62	36.548		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	52.49	195.6	254.9	321.4					
100.0	100.0	91.0	91.0	0.1	0.1	52.49	195.6	254.9	321.3	321.0	0.28	1,133.954		
200.0	200.0	191.0	191.0	0.3	0.3	52.49	195.6	254.9	321.3	320.7	0.63	509.965		
300.0	300.0	291.0	291.0	0.5	0.5	-127.74	195.6	254.9	322.4	321.4	0.98	328.478		
400.0	399.8	390.8	390.8	0.7	0.7	-128.41	195.6	254.9	325.6	324.3	1.34	242.453		
500.0	499.6	490.6	490.6	0.9	0.8	-115.33	195.6	254.9	329.3	327.6	1.71	192.162		
600.0	599.3	588.5	588.5	1.1	1.0	-103.55	194.8	255.9	332.0	329.9	2.09	158.681		
700.0	699.0	686.4	686.3	1.3	1.2	-93.56	191.8	259.6	334.0	331.5	2.49	134.101		
800.0	798.6	784.5	784.0	1.6	1.4	-85.39	186.7	265.8	335.3	332.3	2.92	114.768		
900.0	898.0	882.6	881.4	1.8	1.6	-78.69	179.5	274.7	335.8	332.4	3.40	98.882		
1,000.0	997.3	980.5	978.3	2.0	1.9	-73.02	170.2	286.0	335.5	331.6	3.92	85.526		
1,100.0	1,096.5	1,078.2	1,074.3	2.3	2.2	-68.04	158.9	300.0	334.6	330.0	4.51	74.209		
1,200.0	1,195.4	1,176.5	1,170.3	2.6	2.6	-63.50	145.6	316.3	333.0	327.8	5.14	64.801		
1,300.0	1,294.1	1,276.2	1,267.5	2.9	3.0	-59.60	131.7	333.3	330.3	324.5	5.80	56.951		
1,400.0	1,392.5	1,375.9	1,364.8	3.2	3.3	-56.31	117.8	350.3	326.4	319.9	6.48	50.378		
1,500.0	1,490.6	1,475.6	1,462.1	3.6	3.7	-53.53	104.0	367.3	321.1	313.9	7.17	44.775		
1,600.0	1,588.4	1,575.3	1,559.3	4.0	4.2	-51.16	90.1	384.4	314.4	306.6	7.88	39.918		
1,700.0	1,686.0	1,674.9	1,656.5	4.4	4.6	-50.21	76.2	401.4	306.9	298.4	8.58	35.760		
1,800.0	1,783.6	1,774.5	1,753.7	4.8	5.0	-49.41	62.4	418.4	299.5	290.2	9.28	32.258		
1,900.0	1,881.1	1,874.2	1,850.8	5.2	5.4	-48.56	48.5	435.4	292.1	282.1	9.98	29.277		
2,000.0	1,978.7	1,973.8	1,948.0	5.6	5.8	-47.66	34.7	452.4	284.8	274.1	10.66	26.714		
2,100.0	2,076.3	2,073.4	2,045.2	6.0	6.2	-46.72	20.8	469.4	277.5	266.2	11.33	24.492		
2,200.0	2,173.8	2,173.1	2,142.4	6.4	6.6	-45.74	6.9	486.4	270.3	258.3	11.99	22.553		
2,300.0	2,271.4	2,272.7	2,239.6	6.8	7.1	-44.69	-6.9	503.4	263.2	250.6	12.63	20.848		
2,400.0	2,369.0	2,372.3	2,336.8	7.2	7.5	-43.59	-20.8	520.4	256.2	243.0	13.25	19.342		
2,500.0	2,466.5	2,472.0	2,434.0	7.7	7.9	-42.43	-34.6	537.4	249.4	235.5	13.85	18.007		
2,600.0	2,564.1	2,571.6	2,531.1	8.1	8.3	-41.20	-48.5	554.4	242.6	228.1	14.42	16.817		
2,700.0	2,661.7	2,671.2	2,628.3	8.5	8.7	-39.91	-62.4	571.4	235.9	220.9	14.97	15.755		
2,800.0	2,759.2	2,770.8	2,725.5	8.9	9.2	-38.54	-76.2	588.4	229.3	213.9	15.49	14.805		
2,900.0	2,856.8	2,870.5	2,822.7	9.3	9.6	-37.09	-90.1	605.4	222.9	207.0	15.98	13.955		
3,000.0	2,954.4	2,970.1	2,919.9	9.8	10.0	-35.55	-103.9	622.4	216.7	200.3	16.42	13.193		
3,100.0	3,052.0	3,069.7	3,017.1	10.2	10.4	-33.93	-117.8	639.4	210.6	193.8	16.83	12.512		
3,200.0	3,149.5	3,169.4	3,114.3	10.6	10.8	-32.21	-131.7	656.4	204.7	187.5	17.19	11.905		
3,300.0	3,247.1	3,269.0	3,211.4	11.0	11.3	-30.39	-145.5	673.4	199.0	181.5	17.51	11.366		
3,400.0	3,344.7	3,368.6	3,308.6	11.4	11.7	-28.46	-159.4	690.4	193.5	175.7	17.77	10.890		
3,500.0	3,442.2	3,468.3	3,405.8	11.9	12.1	-26.43	-173.2	707.4	188.2	170.2	17.97	10.473		
3,600.0	3,539.8	3,567.9	3,503.0	12.3	12.5	-24.28	-187.1	724.4	183.2	165.0	18.11	10.112		
3,700.0	3,637.4	3,667.5	3,600.2	12.7	13.0	-22.02	-201.0	741.4	178.4	160.2	18.20	9.804		
3,800.0	3,734.9	3,767.2	3,697.4	13.1	13.4	-19.63	-214.8	758.4	174.0	155.7	18.22	9.547		
3,900.0	3,832.5	3,866.8	3,794.6	13.6	13.8	-17.13	-228.7	775.4	169.8	151.6	18.19	9.337		
4,000.0	3,930.1	3,966.4	3,891.7	14.0	14.2	-14.50	-242.5	792.4	166.0	147.9	18.10	9.173		
4,100.0	4,027.7	4,066.0	3,988.9	14.4	14.7	-11.76	-256.4	809.4	162.6	144.6	17.97	9.049		
4,200.0	4,125.2	4,165.7	4,086.1	14.8	15.1	-8.91	-270.3	826.4	159.6	141.7	17.81	8.961		
4,300.0	4,222.8	4,265.3	4,183.3	15.3	15.5	-5.96	-284.1	843.4	156.9	139.3	17.63	8.900		
4,400.0	4,320.4	4,364.9	4,280.5	15.7	15.9	-2.92	-298.0	860.4	154.7	137.3	17.47	8.856		
4,500.0	4,417.9	4,464.6	4,377.7	16.1	16.4	0.20	-311.9	877.5	153.0	135.6	17.35	8.818		
4,600.0	4,515.5	4,564.2	4,474.9	16.5	16.8	3.39	-325.7	894.5	151.7	134.4	17.30	8.770		
4,700.0	4,613.1	4,663.8	4,572.0	17.0	17.2	6.61	-339.6	911.5	150.9	133.6	17.34	8.701		
4,800.0	4,710.6	4,763.5	4,669.2	17.4	17.6	9.86	-353.4	928.5	150.6	133.1	17.52	8.597		
4,813.8	4,724.1	4,777.2	4,682.6	17.5	17.7	10.31	-355.3	930.8	150.6	133.0	17.55	8.580		
4,900.0	4,808.2	4,863.1	4,766.4	17.8	18.1	13.12	-367.3	945.5	150.8	132.9	17.84	8.453		
5,000.0	4,905.8	4,962.7	4,863.6	18.3	18.5	16.35	-381.2	962.5	151.4	133.1	18.31	8.269		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
5,100.0	5,003.3	5,062.3	4,960.8	18.7	18.9	19.55	-395.0	979.5	152.6	133.6	18.96	8.049			
5,200.0	5,100.9	5,162.0	5,058.0	19.1	19.3	22.69	-408.9	996.5	154.2	134.4	19.76	7.803			
5,300.0	5,198.5	5,261.6	5,155.2	19.5	19.8	25.76	-422.7	1,013.5	156.3	135.6	20.72	7.543			
5,400.0	5,296.1	5,361.2	5,252.3	20.0	20.2	28.74	-436.6	1,030.5	158.8	137.0	21.80	7.282			
5,500.0	5,393.6	5,460.9	5,349.5	20.4	20.6	31.62	-450.5	1,047.5	161.7	138.7	23.00	7.030			
5,600.0	5,491.2	5,560.5	5,446.7	20.8	21.0	34.39	-464.3	1,064.5	165.0	140.8	24.29	6.795			
5,700.0	5,588.8	5,660.1	5,543.9	21.2	21.5	37.04	-478.2	1,081.5	168.7	143.1	25.64	6.581			
5,800.0	5,686.3	5,759.8	5,641.1	21.7	21.9	39.58	-492.0	1,098.5	172.8	145.7	27.04	6.391			
5,900.0	5,783.9	5,859.4	5,738.3	22.1	22.3	42.00	-505.9	1,115.5	177.2	148.7	28.46	6.225			
6,000.0	5,881.5	5,963.2	5,839.8	22.5	22.7	44.50	-519.8	1,132.5	181.0	151.1	29.97	6.041			
6,100.0	5,979.0	6,069.0	5,943.8	22.9	23.1	47.42	-531.6	1,147.1	182.1	150.4	31.66	5.750			
6,200.0	6,076.6	6,174.4	6,048.2	23.4	23.3	50.87	-541.0	1,158.6	180.3	146.7	33.56	5.371			
6,300.0	6,174.2	6,279.2	6,152.3	23.8	23.6	55.01	-548.0	1,167.1	176.0	140.2	35.73	4.926			
6,400.0	6,271.7	6,383.0	6,256.0	24.2	23.7	60.07	-552.4	1,172.6	169.7	131.5	38.19	4.443			
6,500.0	6,369.3	6,485.7	6,358.6	24.7	23.8	66.30	-554.5	1,175.2	162.1	121.1	40.95	3.958			
6,600.0	6,466.9	6,585.0	6,457.9	25.1	23.9	73.64	-554.7	1,175.4	154.6	110.7	43.89	3.523			
6,700.0	6,564.5	6,682.6	6,555.5	25.5	24.0	81.52	-554.7	1,175.4	149.8	103.3	46.54	3.219			
6,800.0	6,662.0	6,780.1	6,653.0	25.9	24.1	89.73	-554.7	1,175.4	148.1	99.5	48.59	3.048			
6,802.8	6,664.7	6,782.8	6,655.7	25.9	24.1	90.00	-554.7	1,175.4	148.1	99.4	48.63	3.045 CC, ES			
6,900.0	6,759.6	6,877.7	6,750.6	26.4	24.2	99.53	-554.7	1,175.4	149.6	99.8	49.85	3.001 SF			
7,000.0	6,857.3	6,975.4	6,848.3	26.7	24.3	142.36	-554.7	1,175.4	160.7	110.4	50.26	3.197			
7,100.0	6,953.8	7,072.0	6,944.8	27.0	24.4	171.32	-554.7	1,175.4	184.7	134.4	50.36	3.668			
7,200.0	7,047.4	7,165.5	7,038.4	27.3	24.4	-173.80	-554.7	1,175.4	219.8	169.3	50.49	4.353			
7,300.0	7,136.1	7,254.3	7,127.1	27.5	24.5	-166.09	-554.7	1,175.4	265.1	214.4	50.66	5.232			
7,400.0	7,218.3	7,336.5	7,209.3	27.6	24.6	-161.58	-554.7	1,175.4	320.3	269.5	50.79	6.307			
7,500.0	7,292.4	7,410.5	7,283.4	27.7	24.7	-158.21	-554.7	1,175.4	385.1	334.2	50.83	7.576			
7,600.0	7,356.9	7,475.0	7,347.9	27.9	24.7	-154.73	-554.7	1,175.4	458.6	407.8	50.78	9.031			
7,700.0	7,410.5	7,528.6	7,401.5	28.1	24.8	-150.08	-554.7	1,175.4	539.9	489.2	50.66	10.656			
7,800.0	7,452.2	7,570.3	7,443.2	28.3	24.8	-142.79	-554.7	1,175.4	627.5	577.0	50.50	12.426			
7,900.0	7,481.2	7,599.4	7,472.2	28.5	24.8	-130.34	-554.7	1,175.4	719.8	669.5	50.30	14.310			
8,000.0	7,497.0	7,615.1	7,488.0	28.9	24.8	-109.00	-554.7	1,175.4	815.3	765.2	50.09	16.274			
8,100.0	7,500.0	7,618.1	7,491.0	29.2	24.8	-90.00	-554.7	1,175.4	912.0	862.1	49.88	18.281			
8,200.0	7,500.0	7,618.1	7,491.0	29.7	24.8	-90.00	-554.7	1,175.4	1,009.2	959.5	49.71	20.304			
8,300.0	7,500.0	7,618.1	7,491.0	30.3	24.8	-90.00	-554.7	1,175.4	1,107.0	1,057.4	49.56	22.335			
8,400.0	7,500.0	7,618.1	7,491.0	31.0	24.8	-90.00	-554.7	1,175.4	1,205.1	1,155.7	49.45	24.372			
8,500.0	7,500.0	7,618.1	7,491.0	31.7	24.8	-90.00	-554.7	1,175.4	1,303.5	1,254.2	49.36	26.411			
8,600.0	7,500.0	7,618.1	7,491.0	32.5	24.8	-90.00	-554.7	1,175.4	1,402.2	1,352.9	49.29	28.450			

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 4U-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 4U-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 #2	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			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	38.30	953.3	752.9	1,215.4						
100.0	100.0	61.0	61.0	0.1	0.1	38.30	953.3	752.9	1,214.8	1,214.5	0.26	4,763.771			
200.0	200.0	161.0	161.0	0.3	0.3	38.30	953.3	752.9	1,214.8	1,214.2	0.60	2,011.072			
300.0	300.0	261.0	261.0	0.5	0.5	-141.74	953.3	752.9	1,216.2	1,215.2	0.95	1,274.139			
400.0	399.8	360.8	360.8	0.7	0.6	-141.84	953.3	752.9	1,220.3	1,219.0	1.31	930.610			
500.0	499.6	460.6	460.6	0.9	0.8	-127.93	953.3	752.9	1,225.2	1,223.5	1.68	730.952			
600.0	599.3	560.3	560.3	1.1	1.0	-115.47	953.3	752.9	1,229.1	1,227.0	2.05	599.201			
700.0	699.0	660.0	660.0	1.3	1.2	-105.27	953.3	752.9	1,231.9	1,229.4	2.44	505.302			
800.0	798.6	759.6	759.6	1.6	1.3	-97.34	953.3	752.9	1,233.6	1,230.8	2.84	434.705			
900.0	898.0	850.0	850.0	1.8	1.5	-91.27	953.3	752.9	1,234.4	1,231.2	3.24	381.394			
1,000.0	997.3	850.0	850.0	2.0	1.5	-86.15	953.3	752.9	1,238.9	1,235.4	3.48	355.711			
1,056.4	1,053.3	965.6	965.5	2.2	1.9	-84.40	954.9	754.6	1,236.8	1,232.9	3.96	311.952			
1,100.0	1,096.5	995.9	995.9	2.3	2.0	-82.92	955.9	755.6	1,238.1	1,234.0	4.16	297.825			
1,200.0	1,195.4	1,065.6	1,065.4	2.6	2.3	-80.07	958.8	758.9	1,242.2	1,237.6	4.60	269.751			
1,300.0	1,294.1	1,135.1	1,134.6	2.9	2.5	-77.83	962.9	763.3	1,247.6	1,242.6	5.06	246.655			
1,400.0	1,392.5	1,204.4	1,203.5	3.2	2.8	-76.05	968.1	769.0	1,254.5	1,249.0	5.52	227.223			
1,500.0	1,490.6	1,273.4	1,271.9	3.6	3.1	-74.63	974.5	775.9	1,262.9	1,256.9	6.00	210.588			
1,600.0	1,588.4	1,342.3	1,339.8	4.0	3.4	-73.49	981.9	784.0	1,272.8	1,266.3	6.49	196.155			
1,700.0	1,686.0	1,410.8	1,407.2	4.4	3.7	-73.81	990.3	793.2	1,284.5	1,277.5	6.98	183.998			
1,800.0	1,783.6	1,479.1	1,474.1	4.8	4.0	-74.28	999.8	803.6	1,298.6	1,291.1	7.47	173.824			
1,900.0	1,881.1	1,625.6	1,616.2	5.2	4.7	-75.21	1,023.9	829.8	1,318.5	1,310.3	8.15	161.790			
2,000.0	1,978.7	1,625.6	1,616.2	5.6	4.7	-75.21	1,023.9	829.8	1,334.1	1,325.6	8.47	157.498			
2,100.0	2,076.3	1,706.8	1,694.4	6.0	5.1	-75.67	1,038.5	845.8	1,354.4	1,345.3	9.06	149.482			
2,200.0	2,173.8	1,803.8	1,787.9	6.4	5.5	-76.22	1,056.1	864.9	1,375.0	1,365.3	9.71	141.564			
2,300.0	2,271.4	1,900.8	1,881.4	6.8	6.0	-76.75	1,073.6	884.0	1,395.7	1,385.3	10.37	134.589			
2,400.0	2,369.0	1,997.9	1,974.9	7.2	6.5	-77.26	1,091.1	903.1	1,416.4	1,405.4	11.03	128.398			
2,500.0	2,466.5	2,094.9	2,068.4	7.7	7.0	-77.76	1,108.7	922.3	1,437.3	1,425.7	11.70	122.865			
2,600.0	2,564.1	2,191.9	2,161.8	8.1	7.5	-78.24	1,126.2	941.4	1,458.4	1,446.0	12.37	117.892			
2,700.0	2,661.7	2,288.9	2,255.3	8.5	8.0	-78.71	1,143.7	960.5	1,479.5	1,466.4	13.05	113.399			
8,400.0	7,500.0	7,657.7	7,461.0	31.0	30.1	90.00	1,976.8	1,869.0	1,428.1	1,385.3	42.83	33.342			
8,500.0	7,500.0	7,657.7	7,461.0	31.7	30.1	90.00	1,976.8	1,869.0	1,334.5	1,292.8	41.64	32.048			
8,600.0	7,500.0	7,657.7	7,461.0	32.5	30.1	90.00	1,976.8	1,869.0	1,241.8	1,201.5	40.29	30.825			
8,700.0	7,500.0	7,657.7	7,461.0	33.4	30.1	90.00	1,976.8	1,869.0	1,150.4	1,111.6	38.75	29.686			
8,800.0	7,500.0	7,657.7	7,461.0	34.4	30.1	90.00	1,976.8	1,869.0	1,060.5	1,023.5	37.03	28.643			
8,900.0	7,500.0	7,657.7	7,461.0	35.4	30.1	90.00	1,976.8	1,869.0	972.6	937.5	35.12	27.693			
9,000.0	7,500.0	7,657.7	7,461.0	36.5	30.1	90.00	1,976.8	1,869.0	887.3	854.2	33.11	26.798			
9,100.0	7,500.0	7,657.7	7,461.0	37.6	30.1	90.00	1,976.8	1,869.0	805.4	774.2	31.20	25.815			
9,200.0	7,500.0	7,657.7	7,461.0	38.8	30.1	90.00	1,976.8	1,869.0	728.0	698.1	29.85	24.389			
9,300.0	7,500.0	7,657.7	7,461.0	40.0	30.1	90.00	1,976.8	1,869.0	656.7	626.8	29.92	21.950			
9,400.0	7,500.0	7,657.7	7,461.0	41.3	30.1	90.00	1,976.8	1,869.0	593.8	561.3	32.50	18.272			
9,500.0	7,500.0	7,657.7	7,461.0	42.6	30.1	90.00	1,976.8	1,869.0	542.1	503.8	38.26	14.170			
9,600.0	7,500.0	7,657.7	7,461.0	43.9	30.1	90.00	1,976.8	1,869.0	505.1	458.3	46.85	10.782			
9,700.0	7,500.0	7,657.7	7,461.0	45.2	30.1	90.00	1,976.8	1,869.0	486.3	429.4	56.83	8.557			
9,743.5	7,500.0	7,657.7	7,461.0	45.8	30.1	90.00	1,976.8	1,869.0	484.3	423.2	61.09	7.928 CC			
9,800.0	7,500.0	7,657.7	7,461.0	46.6	30.1	90.00	1,976.8	1,869.0	487.6	421.4	66.20	7.366 ES			
9,900.0	7,500.0	7,657.7	7,461.0	48.0	30.1	90.00	1,976.8	1,869.0	509.0	435.6	73.40	6.934 SF			
10,000.0	7,500.0	7,657.7	7,461.0	49.5	30.1	90.00	1,976.8	1,869.0	548.1	470.1	77.96	7.030			
10,100.0	7,500.0	7,657.7	7,461.0	50.9	30.1	90.00	1,976.8	1,869.0	601.4	521.1	80.30	7.489			
10,200.0	7,500.0	7,657.7	7,461.0	52.4	30.1	90.00	1,976.8	1,869.0	665.6	584.4	81.13	8.204			
10,300.0	7,500.0	7,657.7	7,461.0	53.9	30.1	90.00	1,976.8	1,869.0	737.8	656.7	81.06	9.101			
10,400.0	7,500.0	7,657.7	7,461.0	55.4	30.1	90.00	1,976.8	1,869.0	815.8	735.3	80.52	10.133			
10,500.0	7,500.0	7,657.7	7,461.0	56.9	30.1	90.00	1,976.8	1,869.0	898.3	818.5	79.75	11.263			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													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			
10,600.0	7,500.0	7,657.7	7,461.0	58.4	30.1	90.00	1,976.8	1,869.0	984.0	905.1	78.91	12.470			
10,700.0	7,500.0	7,657.7	7,461.0	60.0	30.1	90.00	1,976.8	1,869.0	1,072.1	994.1	78.06	13.735			
10,800.0	7,500.0	7,657.7	7,461.0	61.5	30.1	90.00	1,976.8	1,869.0	1,162.2	1,085.0	77.24	15.047			
10,900.0	7,500.0	7,657.7	7,461.0	63.1	30.1	90.00	1,976.8	1,869.0	1,253.8	1,177.4	76.48	16.394			
11,000.0	7,500.0	7,657.7	7,461.0	64.7	30.1	90.00	1,976.8	1,869.0	1,346.6	1,270.9	75.78	17.771			
11,100.0	7,500.0	7,657.7	7,461.0	66.2	30.1	90.00	1,976.8	1,869.0	1,440.4	1,365.3	75.13	19.171			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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			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	38.71	953.4	764.1	1,222.4						
100.0	100.0	61.0	61.0	0.1	0.1	38.71	953.4	764.1	1,221.8	1,221.5	0.26	4,791.121			
200.0	200.0	161.0	161.0	0.3	0.3	38.71	953.4	764.1	1,221.8	1,221.2	0.60	2,022.618			
300.0	300.0	261.0	261.0	0.5	0.5	-141.32	953.4	764.1	1,223.1	1,222.2	0.95	1,281.403			
400.0	399.8	360.8	360.8	0.7	0.6	-141.43	953.4	764.1	1,227.2	1,225.9	1.31	935.783			
500.0	499.6	460.6	460.6	0.9	0.8	-127.52	953.4	764.1	1,232.1	1,230.4	1.68	734.905			
600.0	599.3	560.3	560.3	1.1	1.0	-115.06	953.4	764.1	1,235.9	1,233.9	2.05	602.365			
700.0	699.0	660.0	660.0	1.3	1.2	-104.86	953.4	764.1	1,238.7	1,236.2	2.44	507.917			
800.0	798.6	759.6	759.6	1.6	1.3	-96.93	953.4	764.1	1,240.4	1,237.5	2.84	436.918			
900.0	898.0	850.0	850.0	1.8	1.5	-90.86	953.4	764.1	1,241.1	1,237.8	3.24	383.309			
1,000.0	997.3	941.4	941.4	2.0	1.7	-86.20	953.1	765.5	1,241.5	1,237.7	3.73	332.808			
1,100.0	1,096.5	1,025.6	1,025.5	2.3	2.0	-82.51	952.3	769.3	1,242.1	1,237.9	4.23	293.608			
1,200.0	1,195.4	1,110.0	1,109.6	2.6	2.2	-79.55	951.1	775.6	1,243.0	1,238.3	4.76	261.334			
1,300.0	1,294.1	1,194.6	1,193.8	2.9	2.5	-77.14	949.4	784.4	1,244.1	1,238.8	5.31	234.423			
1,400.0	1,392.5	1,279.4	1,277.8	3.2	2.7	-75.14	947.2	795.6	1,245.4	1,239.5	5.88	211.725			
1,500.0	1,490.6	1,364.4	1,361.6	3.6	3.0	-73.43	944.6	809.3	1,246.8	1,240.3	6.48	192.381			
1,600.0	1,588.4	1,456.7	1,452.3	4.0	3.3	-71.97	941.2	826.5	1,248.3	1,241.1	7.16	174.409			
1,700.0	1,686.0	1,556.7	1,550.4	4.4	3.7	-71.93	937.6	845.5	1,249.2	1,241.3	7.90	158.177			
1,800.0	1,783.6	1,656.6	1,648.4	4.8	4.1	-72.08	933.9	864.4	1,250.2	1,241.5	8.64	144.629			
1,900.0	1,881.1	1,756.6	1,746.5	5.2	4.4	-72.22	930.2	883.4	1,251.2	1,241.8	9.40	133.169			
2,000.0	1,978.7	1,856.5	1,844.5	5.6	4.8	-72.37	926.5	902.4	1,252.1	1,242.0	10.15	123.359			
2,100.0	2,076.3	1,956.5	1,942.6	6.0	5.2	-72.51	922.8	921.4	1,253.1	1,242.2	10.91	114.872			
2,200.0	2,173.8	2,056.4	2,040.6	6.4	5.6	-72.66	919.2	940.3	1,254.1	1,242.5	11.67	107.463			
2,300.0	2,271.4	2,156.4	2,138.7	6.8	6.0	-72.80	915.5	959.3	1,255.1	1,242.7	12.43	100.941			
2,400.0	2,369.0	2,256.3	2,236.8	7.2	6.3	-72.94	911.8	978.3	1,256.1	1,242.9	13.20	95.159			
2,500.0	2,466.5	2,356.2	2,334.8	7.7	6.7	-73.09	908.1	997.3	1,257.2	1,243.2	13.97	89.998			
2,600.0	2,564.1	2,456.2	2,432.9	8.1	7.1	-73.23	904.4	1,016.2	1,258.2	1,243.5	14.74	85.365			
2,700.0	2,661.7	2,556.1	2,530.9	8.5	7.5	-73.38	900.8	1,035.2	1,259.2	1,243.7	15.51	81.183			
2,800.0	2,759.2	2,656.1	2,629.0	8.9	7.9	-73.52	897.1	1,054.2	1,260.3	1,244.0	16.28	77.391			
2,900.0	2,856.8	2,756.0	2,727.1	9.3	8.2	-73.66	893.4	1,073.2	1,261.3	1,244.3	17.06	73.936			
3,000.0	2,954.4	2,856.0	2,825.1	9.8	8.6	-73.80	889.7	1,092.1	1,262.4	1,244.6	17.84	70.777			
3,100.0	3,052.0	2,955.9	2,923.2	10.2	9.0	-73.95	886.0	1,111.1	1,263.5	1,244.9	18.61	67.876			
3,200.0	3,149.5	3,055.9	3,021.2	10.6	9.4	-74.09	882.4	1,130.1	1,264.5	1,245.2	19.39	65.204			
3,300.0	3,247.1	3,155.8	3,119.3	11.0	9.8	-74.23	878.7	1,149.1	1,265.6	1,245.5	20.17	62.735			
3,400.0	3,344.7	3,255.7	3,217.3	11.4	10.1	-74.37	875.0	1,168.0	1,266.7	1,245.8	20.96	60.447			
3,500.0	3,442.2	3,355.7	3,315.4	11.9	10.5	-74.52	871.3	1,187.0	1,267.8	1,246.1	21.74	58.321			
3,600.0	3,539.8	3,455.6	3,413.5	12.3	10.9	-74.66	867.6	1,206.0	1,268.9	1,246.4	22.52	56.340			
3,700.0	3,637.4	3,555.6	3,511.5	12.7	11.3	-74.80	863.9	1,224.9	1,270.0	1,246.7	23.31	54.490			
3,800.0	3,734.9	3,655.5	3,609.6	13.1	11.7	-74.94	860.3	1,243.9	1,271.2	1,247.1	24.09	52.759			
3,900.0	3,832.5	3,755.5	3,707.6	13.6	12.0	-75.08	856.6	1,262.9	1,272.3	1,247.4	24.88	51.135			
4,000.0	3,930.1	3,855.4	3,805.7	14.0	12.4	-75.22	852.9	1,281.9	1,273.4	1,247.8	25.67	49.610			
4,100.0	4,027.7	3,955.4	3,903.8	14.4	12.8	-75.36	849.2	1,300.8	1,274.6	1,248.1	26.46	48.174			
4,200.0	4,125.2	4,055.3	4,001.8	14.8	13.2	-75.50	845.5	1,319.8	1,275.7	1,248.5	27.25	46.819			
4,300.0	4,222.8	4,155.2	4,099.9	15.3	13.6	-75.64	841.9	1,338.8	1,276.9	1,248.9	28.04	45.540			
4,400.0	4,320.4	4,255.2	4,197.9	15.7	13.9	-75.78	838.2	1,357.8	1,278.1	1,249.2	28.83	44.330			
4,500.0	4,417.9	4,355.1	4,296.0	16.1	14.3	-75.92	834.5	1,376.7	1,279.3	1,249.6	29.62	43.184			
4,600.0	4,515.5	4,455.1	4,394.0	16.5	14.7	-76.06	830.8	1,395.7	1,280.4	1,250.0	30.42	42.096			
4,700.0	4,613.1	4,555.0	4,492.1	17.0	15.1	-76.19	827.1	1,414.7	1,281.6	1,250.4	31.21	41.063			
4,800.0	4,710.6	4,655.0	4,590.2	17.4	15.5	-76.33	823.5	1,433.7	1,282.8	1,250.8	32.01	40.080			
4,900.0	4,808.2	4,754.9	4,688.2	17.8	15.8	-76.47	819.8	1,452.6	1,284.0	1,251.2	32.80	39.144			
5,000.0	4,905.8	4,854.9	4,786.3	18.3	16.2	-76.61	816.1	1,471.6	1,285.2	1,251.6	33.60	38.252			
5,100.0	5,003.3	4,954.8	4,884.3	18.7	16.6	-76.75	812.4	1,490.6	1,286.5	1,252.1	34.40	37.401			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,054.8	4,982.4	19.1	17.0	-76.88	808.7	1,509.5	1,287.7	1,252.5	35.19	36.588		
5,300.0	5,198.5	5,154.7	5,080.5	19.5	17.4	-77.02	805.1	1,528.5	1,288.9	1,252.9	35.99	35.810		
5,400.0	5,296.1	5,254.6	5,178.5	20.0	17.7	-77.16	801.4	1,547.5	1,290.2	1,253.4	36.79	35.066		
5,500.0	5,393.6	5,354.6	5,276.6	20.4	18.1	-77.29	797.7	1,566.5	1,291.4	1,253.8	37.59	34.353		
5,600.0	5,491.2	5,454.5	5,374.6	20.8	18.5	-77.43	794.0	1,585.4	1,292.7	1,254.3	38.39	33.669		
5,700.0	5,588.8	5,554.5	5,472.7	21.2	18.9	-77.57	790.3	1,604.4	1,294.0	1,254.8	39.20	33.013		
5,800.0	5,686.3	5,654.4	5,570.7	21.7	19.3	-77.70	786.7	1,623.4	1,295.2	1,255.2	40.00	32.382		
5,900.0	5,783.9	5,754.4	5,668.8	22.1	19.7	-77.84	783.0	1,642.4	1,296.5	1,255.7	40.80	31.777		
6,000.0	5,881.5	5,854.3	5,766.9	22.5	20.0	-77.97	779.3	1,661.3	1,297.8	1,256.2	41.60	31.194		
6,100.0	5,979.0	5,954.3	5,864.9	22.9	20.4	-78.11	775.6	1,680.3	1,299.1	1,256.7	42.41	30.633		
6,200.0	6,076.6	6,054.2	5,963.0	23.4	20.8	-78.24	771.9	1,699.3	1,300.4	1,257.2	43.21	30.093		
6,300.0	6,174.2	6,154.1	6,061.0	23.8	21.2	-78.38	768.3	1,718.3	1,301.7	1,257.7	44.02	29.572		
6,400.0	6,271.7	6,254.1	6,159.1	24.2	21.6	-78.51	764.6	1,737.2	1,303.0	1,258.2	44.82	29.070		
6,500.0	6,369.3	6,354.0	6,257.2	24.7	21.9	-78.64	760.9	1,756.2	1,304.3	1,258.7	45.63	28.585		
6,600.0	6,466.9	6,454.0	6,355.2	25.1	22.3	-78.78	757.2	1,775.2	1,305.7	1,259.2	46.44	28.117		
6,700.0	6,564.5	6,553.9	6,453.3	25.5	22.7	-78.91	753.5	1,794.1	1,307.0	1,259.8	47.24	27.665		
6,800.0	6,662.0	6,653.9	6,551.3	25.9	23.1	-79.04	749.9	1,813.1	1,308.4	1,260.3	48.05	27.228		
6,900.0	6,759.6	6,764.1	6,659.7	26.4	23.3	-77.66	746.0	1,833.0	1,309.4	1,260.7	48.69	26.895		
7,000.0	6,857.3	6,878.2	6,772.6	26.7	23.4	-41.76	742.8	1,849.4	1,302.7	1,253.5	49.16	26.497		
7,100.0	6,953.8	6,990.1	6,883.8	27.0	23.5	-16.30	740.5	1,861.1	1,282.6	1,233.1	49.52	25.903		
7,200.0	7,047.4	7,097.5	6,991.0	27.3	23.6	-1.83	739.1	1,868.4	1,249.6	1,199.9	49.73	25.128		
7,300.0	7,136.1	7,198.7	7,092.1	27.5	23.7	7.72	738.5	1,871.6	1,204.6	1,154.8	49.80	24.188		
7,400.0	7,218.3	7,286.0	7,179.3	27.6	23.7	15.65	738.4	1,871.9	1,148.7	1,099.0	49.70	23.111		
7,500.0	7,292.4	7,360.0	7,253.4	27.7	23.8	23.77	738.4	1,871.9	1,083.8	1,034.5	49.39	21.945		
7,600.0	7,356.9	7,424.5	7,317.9	27.9	23.9	33.33	738.4	1,871.9	1,011.8	962.9	48.81	20.728		
7,700.0	7,410.5	7,478.1	7,371.5	28.1	23.9	45.09	738.4	1,871.9	934.4	886.5	47.89	19.510		
7,800.0	7,452.2	7,519.8	7,413.2	28.3	24.0	58.83	738.4	1,871.9	854.3	807.8	46.54	18.356		
7,900.0	7,481.2	7,548.9	7,442.2	28.5	24.0	72.77	738.4	1,871.9	774.2	729.6	44.62	17.352		
8,000.0	7,497.0	7,564.6	7,458.0	28.9	24.0	84.39	738.4	1,871.9	697.7	655.7	42.00	16.612		
8,100.0	7,500.0	7,567.6	7,461.0	29.2	24.0	90.00	738.4	1,871.9	628.7	590.1	38.66	16.263		
8,200.0	7,500.0	7,567.6	7,461.0	29.7	24.0	90.00	738.4	1,871.9	569.5	534.5	34.95	16.295		
8,300.0	7,500.0	7,567.6	7,461.0	30.3	24.0	90.00	738.4	1,871.9	522.8	490.9	31.87	16.403		
8,400.0	7,500.0	7,567.6	7,461.0	31.0	24.0	90.00	738.4	1,871.9	492.2	461.1	31.09	15.829		
8,500.0	7,500.0	7,567.6	7,461.0	31.7	24.0	90.00	738.4	1,871.9	480.9	447.6	33.27	14.454		
8,505.1	7,500.0	7,567.6	7,461.0	31.7	24.0	90.00	738.4	1,871.9	480.8	447.4	33.45	14.376 CC, ES		
8,600.0	7,500.0	7,567.6	7,461.0	32.5	24.0	90.00	738.4	1,871.9	490.1	452.6	37.50	13.068		
8,700.0	7,500.0	7,567.6	7,461.0	33.4	24.0	90.00	738.4	1,871.9	518.8	476.3	42.52	12.202		
8,800.0	7,500.0	7,567.6	7,461.0	34.4	24.0	90.00	738.4	1,871.9	564.1	516.9	47.20	11.951 SF		
8,900.0	7,500.0	7,567.6	7,461.0	35.4	24.0	90.00	738.4	1,871.9	622.2	571.2	50.98	12.204		
9,000.0	7,500.0	7,567.6	7,461.0	36.5	24.0	90.00	738.4	1,871.9	690.0	636.2	53.83	12.819		
9,100.0	7,500.0	7,567.6	7,461.0	37.6	24.0	90.00	738.4	1,871.9	764.9	709.0	55.90	13.684		
9,200.0	7,500.0	7,567.6	7,461.0	38.8	24.0	90.00	738.4	1,871.9	845.0	787.6	57.40	14.721		
9,300.0	7,500.0	7,567.6	7,461.0	40.0	24.0	90.00	738.4	1,871.9	929.0	870.5	58.50	15.881		
9,400.0	7,500.0	7,567.6	7,461.0	41.3	24.0	90.00	738.4	1,871.9	1,015.9	956.6	59.31	17.129		
9,500.0	7,500.0	7,567.6	7,461.0	42.6	24.0	90.00	738.4	1,871.9	1,105.0	1,045.1	59.92	18.441		
9,600.0	7,500.0	7,567.6	7,461.0	43.9	24.0	90.00	738.4	1,871.9	1,195.8	1,135.4	60.39	19.803		
9,700.0	7,500.0	7,567.6	7,461.0	45.2	24.0	90.00	738.4	1,871.9	1,288.0	1,227.3	60.75	21.201		
9,800.0	7,500.0	7,567.6	7,461.0	46.6	24.0	90.00	738.4	1,871.9	1,381.3	1,320.2	61.04	22.628		
9,900.0	7,500.0	7,567.6	7,461.0	48.0	24.0	90.00	738.4	1,871.9	1,475.4	1,414.2	61.28	24.077		

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 4U-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 4U-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 #2	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 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	52.49	195.6	254.9	321.4						
100.0	100.0	88.2	88.2	0.1	0.1	52.52	195.8	255.3	321.8	321.5	0.28	1,165.060			
200.0	200.0	185.3	185.3	0.3	0.3	52.63	196.0	256.6	322.9	322.3	0.62	520.147			
300.0	300.0	283.7	283.7	0.5	0.5	-127.02	194.6	259.9	325.8	324.9	0.98	332.844			
400.0	399.8	377.6	377.3	0.7	0.7	-126.59	191.7	265.8	332.1	330.8	1.36	244.572			
500.0	499.6	474.6	473.8	0.9	0.9	-111.94	187.3	274.8	340.3	338.5	1.78	191.117			
600.0	599.3	569.9	568.2	1.1	1.2	-98.40	181.1	285.6	347.7	345.4	2.24	155.139			
700.0	699.0	663.4	660.4	1.3	1.5	-86.76	173.5	299.3	355.4	352.6	2.75	129.341			
800.0	798.6	755.7	750.8	1.6	1.9	-77.07	164.6	315.6	363.5	360.2	3.28	110.670			
900.0	898.0	846.4	839.2	1.8	2.3	-69.26	156.1	334.0	372.7	368.9	3.83	97.192			
1,000.0	997.3	941.5	931.5	2.0	2.7	-62.83	147.2	355.2	382.3	377.9	4.43	86.286			
1,100.0	1,096.5	1,033.6	1,020.1	2.3	3.2	-57.24	136.7	377.8	391.7	386.6	5.05	77.480			
1,200.0	1,195.4	1,120.9	1,103.1	2.6	3.7	-52.24	124.9	402.5	402.3	396.6	5.68	70.868			
1,300.0	1,294.1	1,208.6	1,185.2	2.9	4.3	-47.71	112.4	430.3	414.6	408.3	6.30	65.776			
1,400.0	1,392.5	1,299.3	1,269.3	3.2	4.9	-43.49	98.6	461.5	428.0	421.0	6.95	61.580			
1,500.0	1,490.6	1,395.4	1,357.3	3.6	5.7	-39.39	82.1	496.3	441.4	433.8	7.62	57.904			
1,600.0	1,588.4	1,494.1	1,447.3	4.0	6.4	-35.48	63.5	532.6	453.9	445.6	8.28	54.798			
1,700.0	1,686.0	1,586.0	1,531.0	4.4	7.1	-33.37	46.8	566.5	466.4	457.6	8.83	52.803			
1,800.0	1,783.6	1,680.3	1,617.1	4.8	7.8	-31.72	31.8	601.8	480.6	471.2	9.37	51.306			
1,900.0	1,881.1	1,775.6	1,704.0	5.2	8.6	-30.16	16.9	638.0	495.6	485.7	9.88	50.143			
2,000.0	1,978.7	1,868.8	1,788.7	5.6	9.3	-28.72	2.5	674.3	512.0	501.7	10.36	49.445			
2,100.0	2,076.3	1,976.8	1,886.8	6.0	10.2	-27.09	-14.9	715.8	528.3	517.4	10.89	48.509			
2,200.0	2,173.8	2,090.3	1,991.0	6.4	11.0	-25.46	-33.9	756.7	542.2	530.8	11.41	47.527			
2,300.0	2,271.4	2,187.1	2,080.4	6.8	11.7	-24.20	-49.9	790.2	555.0	543.2	11.82	46.950			
2,400.0	2,369.0	2,293.7	2,178.8	7.2	12.5	-22.79	-68.4	827.0	567.9	555.6	12.25	46.341			
2,500.0	2,466.5	2,404.4	2,281.7	7.7	13.2	-21.42	-87.5	862.8	578.9	566.2	12.66	45.726			
2,600.0	2,564.1	2,502.1	2,373.4	8.1	13.9	-20.56	-101.4	893.6	589.2	576.2	13.01	45.280			
2,700.0	2,661.7	2,607.3	2,472.3	8.5	14.5	-19.82	-114.7	926.8	599.9	586.5	13.42	44.716			
2,800.0	2,759.2	2,721.0	2,579.9	8.9	15.2	-19.01	-129.8	960.4	608.5	594.6	13.84	43.977			
2,900.0	2,856.8	2,808.0	2,662.1	9.3	15.8	-18.40	-141.4	986.2	617.3	603.1	14.13	43.671			
3,000.0	2,954.4	2,919.8	2,767.6	9.8	16.5	-17.49	-157.8	1,019.2	626.1	611.6	14.53	43.098			
3,100.0	3,052.0	3,023.0	2,865.1	10.2	17.1	-16.47	-175.3	1,048.3	633.6	618.8	14.82	42.754			
3,200.0	3,149.5	3,120.3	2,957.4	10.6	17.7	-15.70	-189.9	1,075.3	640.9	625.8	15.10	42.437			
3,300.0	3,247.1	3,212.0	3,044.3	11.0	18.2	-15.06	-202.8	1,101.7	649.3	633.9	15.39	42.186			
3,400.0	3,344.7	3,306.3	3,133.0	11.4	18.8	-14.26	-218.1	1,129.7	658.8	643.1	15.64	42.116			
3,500.0	3,442.2	3,402.4	3,223.5	11.9	19.5	-13.55	-232.6	1,158.7	668.9	653.0	15.89	42.098			
3,600.0	3,539.8	3,507.6	3,322.9	12.3	20.1	-13.01	-246.0	1,190.7	679.1	662.8	16.21	41.896			
3,700.0	3,637.4	3,613.8	3,423.4	12.7	20.7	-12.43	-260.0	1,221.6	688.0	671.5	16.53	41.626			
3,800.0	3,734.9	3,708.7	3,513.4	13.1	21.3	-11.95	-272.3	1,249.2	697.0	680.2	16.80	41.489			
3,900.0	3,832.5	3,806.4	3,605.7	13.6	21.9	-11.45	-285.1	1,278.3	706.8	689.7	17.08	41.376			
4,000.0	3,930.1	3,898.6	3,693.0	14.0	22.5	-10.95	-297.9	1,305.6	716.5	699.1	17.32	41.357			
4,100.0	4,027.7	3,984.1	3,773.2	14.4	23.1	-10.55	-309.1	1,332.8	728.4	710.9	17.55	41.513			
4,200.0	4,125.2	4,101.3	3,883.3	14.8	23.8	-10.06	-324.0	1,370.2	740.6	722.7	17.91	41.341			
4,300.0	4,222.8	4,205.0	3,981.5	15.3	24.4	-9.52	-338.4	1,400.0	749.5	731.4	18.18	41.224			
4,400.0	4,320.4	4,292.0	4,063.8	15.7	25.0	-9.20	-349.1	1,426.1	759.7	741.3	18.41	41.260			
4,500.0	4,417.9	4,362.3	4,129.5	16.1	25.5	-8.95	-357.9	1,449.6	773.3	754.7	18.59	41.596			
4,600.0	4,515.5	4,464.4	4,224.2	16.5	26.2	-8.54	-371.7	1,485.0	788.6	769.7	18.88	41.775			
4,700.0	4,613.1	4,599.2	4,351.0	17.0	27.1	-8.02	-389.3	1,527.5	800.2	780.9	19.29	41.492			
4,800.0	4,710.6	4,699.1	4,445.5	17.4	27.7	-7.69	-401.6	1,557.4	810.4	790.8	19.58	41.398			
4,900.0	4,808.2	4,797.1	4,538.0	17.8	28.3	-7.28	-415.0	1,586.7	820.8	800.9	19.84	41.369			
5,000.0	4,905.8	4,885.5	4,621.3	18.3	28.9	-6.85	-428.2	1,613.4	831.8	811.8	20.05	41.485			
5,100.0	5,003.3	5,038.9	4,766.4	18.7	29.7	-6.01	-452.0	1,656.8	841.4	821.0	20.42	41.203			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 70-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,141.5	4,865.0	19.1	30.3	-5.47	-467.1	1,681.0	845.7	825.1	20.66	40.942		
5,300.0	5,198.5	5,244.7	4,963.8	19.5	30.8	-4.92	-482.6	1,706.1	851.1	830.2	20.89	40.741		
5,400.0	5,296.1	5,340.4	5,055.6	20.0	31.3	-4.46	-496.1	1,729.4	856.2	835.0	21.11	40.550		
5,500.0	5,393.6	5,474.6	5,185.2	20.4	32.0	-3.95	-512.9	1,760.1	859.4	838.0	21.42	40.114		
5,600.0	5,491.2	5,609.5	5,316.9	20.8	32.5	-3.69	-525.0	1,786.9	859.0	837.2	21.77	39.456		
5,700.0	5,588.8	5,749.6	5,455.0	21.2	32.9	-3.48	-535.1	1,807.8	852.9	830.8	22.10	38.592		
5,800.0	5,686.3	5,883.5	5,587.8	21.7	33.3	-3.41	-541.7	1,823.9	843.8	821.3	22.43	37.624		
5,900.0	5,783.9	6,008.8	5,712.6	22.1	33.5	-3.43	-545.6	1,834.5	830.7	807.9	22.75	36.511		
6,000.0	5,881.5	6,126.5	5,830.1	22.5	33.7	-3.50	-547.9	1,841.6	815.0	791.9	23.08	35.315		
6,100.0	5,979.0	6,232.2	5,935.6	22.9	33.8	-3.60	-549.1	1,846.5	797.8	774.4	23.42	34.059		
6,200.0	6,076.6	6,337.3	6,040.6	23.4	33.9	-3.72	-549.8	1,850.5	779.7	755.9	23.77	32.796		
6,300.0	6,174.2	6,445.7	6,149.0	23.8	34.0	-3.89	-549.8	1,853.8	760.8	736.6	24.13	31.528		
6,400.0	6,271.7	6,548.0	6,251.2	24.2	34.1	-4.07	-549.5	1,855.6	740.5	716.0	24.50	30.231		
6,500.0	6,369.3	6,650.4	6,353.7	24.7	34.2	-4.27	-548.9	1,857.1	719.9	695.0	24.87	28.947		
6,600.0	6,466.9	6,752.2	6,455.5	25.1	34.2	-4.50	-548.0	1,857.9	698.6	673.4	25.25	27.666		
6,700.0	6,564.5	6,850.7	6,554.0	25.5	34.3	-4.73	-547.1	1,858.3	677.1	651.4	25.65	26.399		
6,800.0	6,662.0	6,949.1	6,652.3	25.9	34.3	-4.98	-546.2	1,858.7	655.4	629.3	26.05	25.158		
6,900.0	6,759.6	7,047.2	6,750.5	26.4	34.4	-3.60	-545.1	1,859.0	633.6	607.2	26.46	23.944		
7,000.0	6,857.3	7,145.6	6,848.8	26.7	34.4	34.31	-544.0	1,859.2	613.3	586.7	26.58	23.076		
7,100.0	6,953.8	7,243.0	6,946.2	27.0	34.5	62.14	-542.9	1,859.3	596.4	570.1	26.25	22.720		
7,200.0	7,047.4	7,337.9	7,041.1	27.3	34.5	79.09	-541.7	1,859.3	584.3	558.5	25.81	22.636		
7,300.0	7,136.1	7,428.1	7,131.4	27.5	34.6	90.61	-540.7	1,859.0	579.6	553.6	25.92	22.358		
7,302.1	7,137.9	7,429.9	7,133.2	27.5	34.6	90.81	-540.7	1,859.0	579.6	553.6	25.94	22.345		
7,400.0	7,218.3	7,511.1	7,214.3	27.6	34.6	99.12	-539.7	1,858.7	584.9	557.6	27.31	21.415		
7,500.0	7,292.4	7,585.9	7,289.1	27.7	34.7	105.41	-539.0	1,858.4	603.1	572.8	30.30	19.907		
7,600.0	7,356.9	7,650.5	7,353.7	27.9	34.7	109.57	-538.4	1,858.0	635.8	601.3	34.46	18.449		
7,700.0	7,410.5	7,704.0	7,407.2	28.1	34.7	111.47	-538.1	1,857.7	683.3	644.3	39.01	17.514		
7,800.0	7,452.2	7,745.6	7,448.8	28.3	34.8	110.80	-537.8	1,857.5	744.3	701.1	43.28	17.199 SF		
7,900.0	7,481.2	7,774.6	7,477.8	28.5	34.8	106.94	-537.7	1,857.3	816.8	769.8	46.92	17.409		
8,000.0	7,497.0	7,790.9	7,494.0	28.9	34.8	98.93	-537.6	1,857.3	897.8	848.0	49.85	18.012		
8,100.0	7,500.0	7,794.4	7,497.6	29.2	34.8	90.82	-537.6	1,857.2	984.6	932.5	52.14	18.884		
8,200.0	7,500.0	7,794.8	7,498.0	29.7	34.8	90.88	-537.6	1,857.2	1,074.1	1,020.1	54.00	19.890		
8,300.0	7,500.0	7,795.3	7,498.5	30.3	34.8	90.93	-537.6	1,857.2	1,165.3	1,109.7	55.54	20.981		
8,400.0	7,500.0	7,795.8	7,499.0	31.0	34.8	90.99	-537.6	1,857.2	1,257.8	1,201.0	56.83	22.134		
8,500.0	7,500.0	7,796.2	7,499.4	31.7	34.8	91.05	-537.6	1,857.2	1,351.4	1,293.5	57.92	23.333		
8,600.0	7,500.0	7,796.7	7,499.9	32.5	34.8	91.11	-537.6	1,857.2	1,445.8	1,387.0	58.85	24.566		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
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	2.0	2.0	0.0	0.0	-89.68	1.1	-199.8	199.8					
100.0	100.0	102.0	102.0	0.1	0.2	-89.68	1.1	-199.8	199.8	199.5	0.30	665.467		
116.0	116.0	118.0	118.0	0.2	0.2	-89.68	1.1	-199.8	199.8	199.4	0.36	561.155	CC	
200.0	200.0	201.9	201.9	0.3	0.3	-89.68	1.1	-199.8	199.8	199.1	0.65	307.743	ES	
300.0	300.0	300.0	300.0	0.5	0.5	90.86	1.3	-200.6	200.6	199.6	1.00	200.935		
400.0	399.8	395.1	395.1	0.7	0.7	92.37	1.9	-203.0	203.3	201.9	1.36	149.541		
500.0	499.6	491.2	491.1	0.9	0.8	108.53	2.9	-207.0	208.8	207.0	1.73	120.771		
600.0	599.3	587.0	586.7	1.1	1.0	123.20	4.3	-212.4	217.9	215.8	2.10	103.917		
700.0	699.0	684.0	683.4	1.3	1.2	135.52	6.0	-219.4	230.4	228.0	2.46	93.523		
800.0	798.6	782.7	781.8	1.6	1.4	145.43	7.8	-226.8	245.1	242.3	2.83	86.603		
900.0	898.0	881.2	880.0	1.8	1.7	153.25	9.7	-234.1	261.6	258.5	3.19	81.986		
1,000.0	997.3	979.3	977.9	2.0	1.9	159.43	11.5	-241.4	280.0	276.4	3.55	78.931		
1,100.0	1,096.5	1,077.2	1,075.5	2.3	2.1	164.34	13.3	-248.6	300.0	296.1	3.90	76.979		
1,200.0	1,195.4	1,174.8	1,172.8	2.6	2.3	168.29	15.1	-255.9	321.8	317.5	4.24	75.832		
1,300.0	1,294.1	1,271.9	1,269.7	2.9	2.5	171.48	16.9	-263.1	345.2	340.6	4.58	75.289		
1,400.0	1,392.5	1,368.7	1,366.2	3.2	2.7	174.09	18.7	-270.3	370.2	365.3	4.92	75.210	SF	
1,500.0	1,490.6	1,465.1	1,462.2	3.6	2.9	176.24	20.4	-277.5	396.9	391.7	5.26	75.495		
1,600.0	1,588.4	1,561.0	1,557.9	4.0	3.1	178.01	22.2	-284.6	425.2	419.7	5.59	76.070		
1,700.0	1,686.0	1,656.6	1,653.2	4.4	3.3	178.28	24.0	-291.7	454.5	448.6	5.92	76.749		
1,800.0	1,783.6	1,752.2	1,748.5	4.8	3.6	178.34	25.7	-298.8	483.8	477.6	6.26	77.352		
1,900.0	1,881.1	1,847.8	1,843.8	5.2	3.8	178.39	27.5	-305.9	513.2	506.6	6.59	77.889		
2,000.0	1,978.7	1,943.4	1,939.2	5.6	4.0	178.44	29.3	-313.0	542.5	535.5	6.92	78.371		
2,100.0	2,076.3	2,039.0	2,034.5	6.0	4.2	178.49	31.0	-320.1	571.8	564.5	7.26	78.806		
2,200.0	2,173.8	2,134.6	2,129.8	6.4	4.4	178.53	32.8	-327.2	601.1	593.5	7.59	79.199		
2,300.0	2,271.4	2,230.2	2,225.1	6.8	4.6	178.56	34.6	-334.3	630.4	622.5	7.92	79.557		
2,400.0	2,369.0	2,325.9	2,320.5	7.2	4.8	178.60	36.3	-341.4	659.7	651.5	8.26	79.883		
2,500.0	2,466.5	2,421.5	2,415.8	7.7	5.0	178.63	38.1	-348.5	689.0	680.4	8.59	80.182		
2,600.0	2,564.1	2,517.1	2,511.1	8.1	5.2	178.65	39.9	-355.6	718.3	709.4	8.93	80.458		
2,700.0	2,661.7	2,612.7	2,606.5	8.5	5.4	178.68	41.6	-362.7	747.6	738.4	9.26	80.711		
2,800.0	2,759.2	2,708.3	2,701.8	8.9	5.6	178.70	43.4	-369.8	777.0	767.4	9.60	80.946		
2,900.0	2,856.8	2,803.9	2,797.1	9.3	5.9	178.73	45.2	-376.9	806.3	796.3	9.93	81.164		
3,000.0	2,954.4	2,899.5	2,892.4	9.8	6.1	178.75	46.9	-384.0	835.6	825.3	10.27	81.367		
3,100.0	3,052.0	2,995.1	2,987.8	10.2	6.3	178.77	48.7	-391.1	864.9	854.3	10.60	81.556		
3,200.0	3,149.5	3,090.7	3,083.1	10.6	6.5	178.78	50.5	-398.2	894.2	883.3	10.94	81.732		
3,300.0	3,247.1	3,186.3	3,178.4	11.0	6.7	178.80	52.2	-405.4	923.5	912.2	11.28	81.898		
3,400.0	3,344.7	3,281.9	3,273.7	11.4	6.9	178.82	54.0	-412.5	952.8	941.2	11.61	82.053		
3,500.0	3,442.2	3,377.5	3,369.1	11.9	7.1	178.83	55.8	-419.6	982.1	970.2	11.95	82.199		
3,600.0	3,539.8	3,473.1	3,464.4	12.3	7.3	178.84	57.5	-426.7	1,011.5	999.2	12.28	82.336		
3,700.0	3,637.4	3,568.7	3,559.7	12.7	7.5	178.86	59.3	-433.8	1,040.8	1,028.2	12.62	82.466		
3,800.0	3,734.9	3,664.4	3,655.0	13.1	7.7	178.87	61.1	-440.9	1,070.1	1,057.1	12.96	82.588		
3,900.0	3,832.5	3,760.0	3,750.4	13.6	8.0	178.88	62.8	-448.0	1,099.4	1,086.1	13.29	82.704		
4,000.0	3,930.1	3,855.6	3,845.7	14.0	8.2	178.89	64.6	-455.1	1,128.7	1,115.1	13.63	82.814		
4,100.0	4,027.7	3,951.2	3,941.0	14.4	8.4	178.90	66.4	-462.2	1,158.0	1,144.1	13.97	82.918		
4,200.0	4,125.2	4,046.8	4,036.4	14.8	8.6	178.91	68.1	-469.3	1,187.3	1,173.0	14.30	83.017		
4,300.0	4,222.8	4,142.4	4,131.7	15.3	8.8	178.92	69.9	-476.4	1,216.7	1,202.0	14.64	83.112		
4,400.0	4,320.4	4,238.0	4,227.0	15.7	9.0	178.93	71.7	-483.5	1,246.0	1,231.0	14.98	83.201		
4,500.0	4,417.9	4,333.6	4,322.3	16.1	9.2	178.94	73.4	-490.6	1,275.3	1,260.0	15.31	83.287		
4,600.0	4,515.5	4,429.2	4,417.7	16.5	9.4	178.95	75.2	-497.7	1,304.6	1,288.9	15.65	83.369		
4,700.0	4,613.1	4,524.8	4,513.0	17.0	9.6	178.96	77.0	-504.8	1,333.9	1,317.9	15.99	83.447		
4,800.0	4,710.6	4,620.4	4,608.3	17.4	9.8	178.96	78.7	-511.9	1,363.2	1,346.9	16.32	83.521		
4,900.0	4,808.2	4,716.0	4,703.6	17.8	10.1	178.97	80.5	-519.0	1,392.5	1,375.9	16.66	83.593		
5,000.0	4,905.8	4,811.6	4,799.0	18.3	10.3	178.98	82.3	-526.1	1,421.8	1,404.8	17.00	83.661		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1												Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance				Warning	
Measured Depth (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
5,100.0	5,003.3	4,907.2	4,894.3	18.7	10.5	178.98	84.0	-533.2	1,451.2	1,433.8	17.33	83.727
5,200.0	5,100.9	5,002.9	4,989.6	19.1	10.7	178.99	85.8	-540.3	1,480.5	1,462.8	17.67	83.790

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4B-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.68	1.1	-190.0	190.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.68	1.1	-190.0	190.0	189.7	0.30	636.547		
200.0	200.0	201.0	201.0	0.3	0.3	-89.68	1.1	-190.0	190.0	189.3	0.65	293.395 CC		
208.5	208.5	209.5	209.5	0.3	0.3	90.33	1.1	-190.0	190.0	189.3	0.68	280.375		
300.0	300.0	300.0	300.0	0.5	0.5	90.84	1.1	-190.0	190.0	189.0	1.00	190.276 ES		
400.0	399.8	397.3	397.3	0.7	0.7	92.44	1.4	-190.9	191.1	189.7	1.36	140.152		
500.0	499.6	493.3	493.3	0.9	0.8	108.76	2.5	-193.5	195.2	193.5	1.73	112.666		
600.0	599.3	591.0	590.8	1.1	1.0	123.71	4.1	-197.7	203.0	200.9	2.10	96.428		
700.0	699.0	690.2	689.9	1.3	1.2	136.27	5.9	-202.2	212.9	210.4	2.48	85.970		
800.0	798.6	789.3	788.9	1.6	1.4	146.36	7.6	-206.6	224.8	222.0	2.84	79.071		
900.0	898.0	888.1	887.6	1.8	1.6	154.35	9.4	-211.1	238.6	235.4	3.20	74.468		
1,000.0	997.3	986.8	986.2	2.0	1.8	160.68	11.1	-215.5	254.1	250.6	3.56	71.421		
1,100.0	1,096.5	1,085.2	1,084.5	2.3	2.0	165.71	12.8	-219.9	271.5	267.5	3.91	69.469		
1,200.0	1,195.4	1,183.3	1,182.4	2.6	2.2	169.75	14.6	-224.4	290.5	286.2	4.25	68.316		
1,300.0	1,294.1	1,281.1	1,280.1	2.9	2.3	173.01	16.3	-228.7	311.2	306.6	4.59	67.758		
1,400.0	1,392.5	1,378.5	1,377.5	3.2	2.5	175.67	18.0	-233.1	333.5	328.6	4.93	67.657 SF		
1,500.0	1,490.6	1,475.6	1,474.4	3.6	2.7	177.83	19.7	-237.5	357.5	352.2	5.26	67.912		
1,600.0	1,588.4	1,572.3	1,571.0	4.0	2.9	179.62	21.5	-241.8	383.1	377.5	5.60	68.450		
1,700.0	1,686.0	1,668.7	1,667.3	4.4	3.1	179.88	23.2	-246.2	409.7	403.7	5.93	69.091		
1,800.0	1,783.6	1,765.1	1,763.5	4.8	3.3	179.94	24.9	-250.5	436.2	430.0	6.26	69.658		
1,900.0	1,881.1	1,861.5	1,859.8	5.2	3.5	179.99	26.6	-254.9	462.8	456.2	6.60	70.162		
2,000.0	1,978.7	1,957.9	1,956.1	5.6	3.6	-179.96	28.3	-259.2	489.4	482.5	6.93	70.613		
2,100.0	2,076.3	2,054.3	2,052.4	6.0	3.8	-179.92	30.0	-263.5	516.0	508.7	7.27	71.018		
2,200.0	2,173.8	2,150.7	2,148.7	6.4	4.0	-179.88	31.7	-267.9	542.6	535.0	7.60	71.384		
2,300.0	2,271.4	2,247.1	2,245.0	6.8	4.2	-179.84	33.4	-272.2	569.2	561.2	7.94	71.716		
2,400.0	2,369.0	2,343.5	2,341.3	7.2	4.4	-179.81	35.1	-276.5	595.8	587.5	8.27	72.018		
2,500.0	2,466.5	2,439.9	2,437.6	7.7	4.6	-179.78	36.8	-280.9	622.3	613.7	8.61	72.294		
2,600.0	2,564.1	2,536.3	2,533.8	8.1	4.8	-179.75	38.5	-285.2	648.9	640.0	8.94	72.548		
2,700.0	2,661.7	2,632.7	2,630.1	8.5	5.0	-179.73	40.2	-289.5	675.5	666.2	9.28	72.781		
2,800.0	2,759.2	2,729.1	2,726.4	8.9	5.1	-179.71	41.9	-293.9	702.1	692.5	9.62	72.997		
2,900.0	2,856.8	2,825.5	2,822.7	9.3	5.3	-179.68	43.6	-298.2	728.7	718.7	9.96	73.196		
3,000.0	2,954.4	2,921.9	2,919.0	9.8	5.5	-179.66	45.3	-302.6	755.3	745.0	10.29	73.381		
3,100.0	3,052.0	3,018.3	3,015.3	10.2	5.7	-179.65	47.0	-306.9	781.9	771.2	10.63	73.554		
3,200.0	3,149.5	3,114.7	3,111.6	10.6	5.9	-179.63	48.7	-311.2	808.5	797.5	10.97	73.715		
3,300.0	3,247.1	3,211.1	3,207.9	11.0	6.1	-179.61	50.4	-315.6	835.1	823.8	11.31	73.865		
3,400.0	3,344.7	3,307.5	3,304.1	11.4	6.3	-179.60	52.1	-319.9	861.6	850.0	11.64	74.006		
3,500.0	3,442.2	3,403.9	3,400.4	11.9	6.4	-179.58	53.8	-324.2	888.2	876.3	11.98	74.138		
3,600.0	3,539.8	3,500.3	3,496.7	12.3	6.6	-179.57	55.5	-328.6	914.8	902.5	12.32	74.263		
3,700.0	3,637.4	3,596.7	3,593.0	12.7	6.8	-179.56	57.2	-332.9	941.4	928.8	12.66	74.380		
3,800.0	3,734.9	3,693.1	3,689.3	13.1	7.0	-179.55	58.9	-337.2	968.0	955.0	12.99	74.491		
3,900.0	3,832.5	3,789.5	3,785.6	13.6	7.2	-179.53	60.6	-341.6	994.6	981.3	13.33	74.595		
4,000.0	3,930.1	3,885.9	3,881.9	14.0	7.4	-179.52	62.3	-345.9	1,021.2	1,007.5	13.67	74.695		
4,100.0	4,027.7	3,982.3	3,978.2	14.4	7.6	-179.51	64.0	-350.3	1,047.8	1,033.8	14.01	74.788		
4,200.0	4,125.2	4,078.7	4,074.4	14.8	7.8	-179.50	65.7	-354.6	1,074.4	1,060.0	14.35	74.878		
4,300.0	4,222.8	4,175.1	4,170.7	15.3	7.9	-179.49	67.4	-358.9	1,100.9	1,086.3	14.69	74.962		
4,400.0	4,320.4	4,271.5	4,267.0	15.7	8.1	-179.49	69.2	-363.3	1,127.5	1,112.5	15.03	75.043		
4,500.0	4,417.9	4,367.9	4,363.3	16.1	8.3	-179.48	70.9	-367.6	1,154.1	1,138.8	15.36	75.120		
4,600.0	4,515.5	4,464.3	4,459.6	16.5	8.5	-179.47	72.6	-371.9	1,180.7	1,165.0	15.70	75.193		
4,700.0	4,613.1	4,560.7	4,555.9	17.0	8.7	-179.46	74.3	-376.3	1,207.3	1,191.3	16.04	75.263		
4,800.0	4,710.6	4,657.1	4,652.2	17.4	8.9	-179.45	76.0	-380.6	1,233.9	1,217.5	16.38	75.329		
4,900.0	4,808.2	4,753.5	4,748.5	17.8	9.1	-179.45	77.7	-384.9	1,260.5	1,243.8	16.72	75.393		
5,000.0	4,905.8	4,849.9	4,844.8	18.3	9.2	-179.44	79.4	-389.3	1,287.1	1,270.0	17.06	75.455		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
5,100.0	5,003.3	4,946.3	4,941.0	18.7	9.4	-179.43	81.1	-393.6	1,313.7	1,296.3	17.40	75.513			
5,200.0	5,100.9	5,042.7	5,037.3	19.1	9.6	-179.43	82.8	-397.9	1,340.2	1,322.5	17.74	75.570			
5,300.0	5,198.5	5,139.1	5,133.6	19.5	9.8	-179.42	84.5	-402.3	1,366.8	1,348.8	18.07	75.624			
5,400.0	5,296.1	5,235.5	5,229.9	20.0	10.0	-179.42	86.2	-406.6	1,393.4	1,375.0	18.41	75.675			
5,500.0	5,393.6	5,331.9	5,326.2	20.4	10.2	-179.41	87.9	-411.0	1,420.0	1,401.3	18.75	75.725			
5,600.0	5,491.2	5,428.3	5,422.5	20.8	10.4	-179.41	89.6	-415.3	1,446.6	1,427.5	19.09	75.773			
5,700.0	5,588.8	5,524.7	5,518.8	21.2	10.6	-179.40	91.3	-419.6	1,473.2	1,453.8	19.43	75.820			
5,800.0	5,686.3	5,621.1	5,615.1	21.7	10.7	-179.40	93.0	-424.0	1,499.8	1,480.0	19.77	75.864			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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: 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	-89.67	1.0	-179.9	179.9						
100.0	100.0	101.0	101.0	0.1	0.2	-89.67	1.0	-179.9	179.9	179.6	0.30	602.798			
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	1.0	-179.9	179.9	179.3	0.65	277.840	CC		
208.6	208.6	209.6	209.6	0.3	0.3	90.33	1.0	-179.9	179.9	179.2	0.68	265.429			
300.0	300.0	300.0	300.0	0.5	0.5	90.87	1.0	-179.9	179.9	178.9	1.00	180.190	ES		
400.0	399.8	398.2	398.2	0.7	0.7	92.62	1.5	-180.6	180.8	179.5	1.37	132.450			
500.0	499.6	496.4	496.4	0.9	0.8	109.21	2.8	-182.5	184.2	182.5	1.74	105.949			
600.0	599.3	596.0	595.9	1.1	1.0	124.32	4.3	-184.7	189.9	187.8	2.11	89.800			
700.0	699.0	695.4	695.3	1.3	1.2	137.01	5.7	-186.8	197.6	195.1	2.49	79.457			
800.0	798.6	794.7	794.6	1.6	1.4	147.23	7.2	-189.0	207.2	204.3	2.85	72.630			
900.0	898.0	893.9	893.7	1.8	1.6	155.34	8.6	-191.1	218.7	215.5	3.21	68.073			
1,000.0	997.3	992.9	992.7	2.0	1.7	161.77	10.1	-193.2	232.0	228.5	3.57	65.053			
1,100.0	1,096.5	1,091.6	1,091.4	2.3	1.9	166.89	11.5	-195.3	247.1	243.2	3.92	63.115			
1,200.0	1,195.4	1,190.1	1,189.9	2.6	2.1	170.98	12.9	-197.5	263.9	259.6	4.26	61.963			
1,300.0	1,294.1	1,288.4	1,288.1	2.9	2.3	174.28	14.4	-199.6	282.4	277.8	4.60	61.397			
1,400.0	1,392.5	1,386.3	1,386.0	3.2	2.4	176.95	15.8	-201.7	302.5	297.5	4.94	61.279	SF		
1,500.0	1,490.6	1,483.9	1,483.5	3.6	2.6	179.12	17.2	-203.8	324.2	318.9	5.27	61.510			
1,600.0	1,588.4	1,581.1	1,580.7	4.0	2.8	-179.11	18.6	-205.9	347.5	341.9	5.60	62.019			
1,700.0	1,686.0	1,678.1	1,677.7	4.4	3.0	-178.87	20.1	-208.0	371.9	365.9	5.94	62.630			
1,800.0	1,783.6	1,775.1	1,774.7	4.8	3.1	-178.83	21.5	-210.1	396.2	389.9	6.27	63.169			
1,900.0	1,881.1	1,872.1	1,871.6	5.2	3.3	-178.79	22.9	-212.2	420.5	413.9	6.61	63.647			
2,000.0	1,978.7	1,969.1	1,968.6	5.6	3.5	-178.75	24.3	-214.2	444.9	437.9	6.94	64.073			
2,100.0	2,076.3	2,066.1	2,065.5	6.0	3.7	-178.72	25.7	-216.3	469.2	461.9	7.28	64.455			
2,200.0	2,173.8	2,163.1	2,162.5	6.4	3.8	-178.69	27.1	-218.4	493.6	485.9	7.62	64.800			
2,300.0	2,271.4	2,260.1	2,259.5	6.8	4.0	-178.67	28.6	-220.5	517.9	509.9	7.95	65.112			
2,400.0	2,369.0	2,357.1	2,356.4	7.2	4.2	-178.65	30.0	-222.6	542.2	533.9	8.29	65.395			
2,500.0	2,466.5	2,454.1	2,453.4	7.7	4.4	-178.63	31.4	-224.7	566.6	557.9	8.63	65.654			
2,600.0	2,564.1	2,551.1	2,550.3	8.1	4.5	-178.61	32.8	-226.8	590.9	581.9	8.97	65.891			
2,700.0	2,661.7	2,648.1	2,647.3	8.5	4.7	-178.59	34.2	-228.9	615.2	605.9	9.31	66.110			
2,800.0	2,759.2	2,745.1	2,744.3	8.9	4.9	-178.57	35.6	-231.0	639.6	629.9	9.65	66.311			
2,900.0	2,856.8	2,842.0	2,841.2	9.3	5.1	-178.56	37.0	-233.0	663.9	653.9	9.98	66.497			
3,000.0	2,954.4	2,939.0	2,938.2	9.8	5.2	-178.54	38.5	-235.1	688.3	677.9	10.32	66.669			
3,100.0	3,052.0	3,036.0	3,035.1	10.2	5.4	-178.53	39.9	-237.2	712.6	701.9	10.66	66.830			
3,200.0	3,149.5	3,133.0	3,132.1	10.6	5.6	-178.52	41.3	-239.3	736.9	725.9	11.00	66.979			
3,300.0	3,247.1	3,230.0	3,229.1	11.0	5.8	-178.51	42.7	-241.4	761.3	749.9	11.34	67.119			
3,400.0	3,344.7	3,327.0	3,326.0	11.4	5.9	-178.49	44.1	-243.5	785.6	773.9	11.68	67.250			
3,500.0	3,442.2	3,424.0	3,423.0	11.9	6.1	-178.48	45.5	-245.6	810.0	797.9	12.02	67.373			
3,600.0	3,539.8	3,521.0	3,519.9	12.3	6.3	-178.47	47.0	-247.7	834.3	821.9	12.36	67.488			
3,700.0	3,637.4	3,618.0	3,616.9	12.7	6.5	-178.47	48.4	-249.8	858.6	845.9	12.70	67.597			
3,800.0	3,734.9	3,715.0	3,713.9	13.1	6.6	-178.46	49.8	-251.8	883.0	869.9	13.04	67.699			
3,900.0	3,832.5	3,812.0	3,810.8	13.6	6.8	-178.45	51.2	-253.9	907.3	893.9	13.38	67.796			
4,000.0	3,930.1	3,909.0	3,907.8	14.0	7.0	-178.44	52.6	-256.0	931.7	917.9	13.72	67.887			
4,100.0	4,027.7	4,006.0	4,004.7	14.4	7.2	-178.43	54.0	-258.1	956.0	941.9	14.06	67.974			
4,200.0	4,125.2	4,103.0	4,101.7	14.8	7.3	-178.43	55.5	-260.2	980.3	965.9	14.40	68.056			
4,300.0	4,222.8	4,199.9	4,198.7	15.3	7.5	-178.42	56.9	-262.3	1,004.7	989.9	14.75	68.134			
4,400.0	4,320.4	4,296.9	4,295.6	15.7	7.7	-178.41	58.3	-264.4	1,029.0	1,013.9	15.09	68.209			
4,500.0	4,417.9	4,393.9	4,392.6	16.1	7.9	-178.41	59.7	-266.5	1,053.4	1,037.9	15.43	68.279			
4,600.0	4,515.5	4,490.9	4,489.5	16.5	8.0	-178.40	61.1	-268.6	1,077.7	1,061.9	15.77	68.347			
4,700.0	4,613.1	4,587.9	4,586.5	17.0	8.2	-178.40	62.5	-270.6	1,102.0	1,085.9	16.11	68.411			
4,800.0	4,710.6	4,684.9	4,683.5	17.4	8.4	-178.39	63.9	-272.7	1,126.4	1,109.9	16.45	68.473			
4,900.0	4,808.2	4,781.9	4,780.4	17.8	8.6	-178.39	65.4	-274.8	1,150.7	1,133.9	16.79	68.532			
5,000.0	4,905.8	4,878.9	4,877.4	18.3	8.7	-178.38	66.8	-276.9	1,175.1	1,157.9	17.13	68.588			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5,100.0	5,003.3	4,975.9	4,974.3	18.7	8.9	-178.38	68.2	-279.0	1,199.4	1,181.9	17.47	68.642			
5,200.0	5,100.9	5,072.9	5,071.3	19.1	9.1	-178.37	69.6	-281.1	1,223.7	1,205.9	17.81	68.693			
5,300.0	5,198.5	5,169.9	5,168.3	19.5	9.3	-178.37	71.0	-283.2	1,248.1	1,229.9	18.16	68.743			
5,400.0	5,296.1	5,266.9	5,265.2	20.0	9.4	-178.37	72.4	-285.3	1,272.4	1,253.9	18.50	68.791			
5,500.0	5,393.6	5,363.9	5,362.2	20.4	9.6	-178.36	73.9	-287.4	1,296.7	1,277.9	18.84	68.837			
5,600.0	5,491.2	5,460.9	5,459.1	20.8	9.8	-178.36	75.3	-289.4	1,321.1	1,301.9	19.18	68.881			
5,700.0	5,588.8	5,557.8	5,556.1	21.2	10.0	-178.35	76.7	-291.5	1,345.4	1,325.9	19.52	68.923			
5,800.0	5,686.3	5,654.8	5,653.1	21.7	10.1	-178.35	78.1	-293.6	1,369.8	1,349.9	19.86	68.964			
5,900.0	5,783.9	5,751.8	5,750.0	22.1	10.3	-178.35	79.5	-295.7	1,394.1	1,373.9	20.20	69.003			
6,000.0	5,881.5	5,848.8	5,847.0	22.5	10.5	-178.34	80.9	-297.8	1,418.4	1,397.9	20.54	69.041			
6,100.0	5,979.0	5,945.8	5,943.9	22.9	10.7	-178.34	82.4	-299.9	1,442.8	1,421.9	20.89	69.078			
6,200.0	6,076.6	6,042.8	6,040.9	23.4	10.8	-178.34	83.8	-302.0	1,467.1	1,445.9	21.23	69.114			
6,300.0	6,174.2	6,139.8	6,137.9	23.8	11.0	-178.33	85.2	-304.1	1,491.5	1,469.9	21.57	69.148			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.67	1.0	-169.8	169.8					
100.0	100.0	101.0	101.0	0.1	0.2	-89.67	1.0	-169.8	169.8	169.5	0.30	569.049		
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	1.0	-169.8	169.8	169.2	0.65	262.284	CC	
300.0	300.0	301.0	301.0	0.5	0.5	90.91	1.0	-169.8	169.9	168.9	1.00	169.808		
400.0	399.8	400.9	400.9	0.7	0.7	92.67	1.0	-169.8	170.0	168.6	1.37	124.123	ES	
500.0	499.6	503.7	503.7	0.9	0.9	109.17	1.0	-168.9	170.4	168.7	1.75	97.356		
600.0	599.3	606.5	606.4	1.1	1.0	124.26	1.0	-166.1	171.1	169.0	2.13	80.273		
700.0	699.0	709.3	709.1	1.3	1.2	137.13	0.9	-161.5	172.0	169.5	2.51	68.559		
800.0	798.6	809.7	809.3	1.6	1.4	147.66	0.9	-155.7	173.6	170.8	2.88	60.358		
900.0	898.0	909.4	908.9	1.8	1.6	156.16	0.9	-150.0	177.2	173.9	3.24	54.721		
1,000.0	997.3	1,009.1	1,008.5	2.0	1.8	163.00	0.9	-144.3	182.6	179.0	3.59	50.824		
1,100.0	1,096.5	1,108.7	1,107.9	2.3	2.0	168.53	0.9	-138.5	189.8	185.9	3.94	48.154		
1,200.0	1,195.4	1,208.3	1,207.3	2.6	2.2	172.99	0.8	-132.8	198.8	194.5	4.29	46.375		
1,300.0	1,294.1	1,307.6	1,306.5	2.9	2.4	176.59	0.8	-127.1	209.5	204.8	4.63	45.260		
1,400.0	1,392.5	1,406.8	1,405.5	3.2	2.6	179.49	0.8	-121.4	221.8	216.8	4.97	44.651		
1,500.0	1,490.6	1,505.8	1,504.4	3.6	2.8	-178.19	0.8	-115.7	235.7	230.4	5.31	44.437		
1,600.0	1,588.4	1,604.6	1,603.0	4.0	3.0	-176.34	0.8	-110.0	251.3	245.7	5.64	44.538		
1,700.0	1,686.0	1,703.2	1,701.4	4.4	3.2	-176.04	0.8	-104.3	267.9	261.9	5.98	44.779		
1,800.0	1,783.6	1,801.8	1,799.9	4.8	3.4	-175.94	0.7	-98.7	284.4	278.1	6.32	44.987		
1,900.0	1,881.1	1,900.5	1,898.3	5.2	3.6	-175.85	0.7	-93.0	301.0	294.3	6.66	45.166		
2,000.0	1,978.7	1,999.1	1,996.8	5.6	3.8	-175.78	0.7	-87.3	317.6	310.6	7.01	45.321		
2,100.0	2,076.3	2,097.7	2,095.2	6.0	4.0	-175.71	0.7	-81.7	334.1	326.8	7.35	45.456		
2,200.0	2,173.8	2,196.3	2,193.7	6.4	4.2	-175.64	0.7	-76.0	350.7	343.0	7.70	45.573		
2,300.0	2,271.4	2,294.9	2,292.2	6.8	4.4	-175.59	0.6	-70.3	367.3	359.2	8.04	45.677		
2,400.0	2,369.0	2,393.5	2,390.6	7.2	4.6	-175.53	0.6	-64.6	383.9	375.5	8.39	45.769		
2,500.0	2,466.5	2,492.2	2,489.1	7.7	4.8	-175.48	0.6	-59.0	400.4	391.7	8.73	45.850		
2,600.0	2,564.1	2,590.8	2,587.5	8.1	5.0	-175.44	0.6	-53.3	417.0	407.9	9.08	45.922		
2,700.0	2,661.7	2,689.4	2,686.0	8.5	5.2	-175.40	0.6	-47.6	433.6	424.1	9.43	45.987		
2,800.0	2,759.2	2,788.0	2,784.4	8.9	5.4	-175.36	0.6	-41.9	450.1	440.4	9.78	46.045		
2,900.0	2,856.8	2,886.6	2,882.9	9.3	5.5	-175.33	0.5	-36.3	466.7	456.6	10.12	46.098		
3,000.0	2,954.4	2,985.2	2,981.3	9.8	5.7	-175.29	0.5	-30.6	483.3	472.8	10.47	46.145		
3,100.0	3,052.0	3,083.9	3,079.8	10.2	5.9	-175.26	0.5	-24.9	499.9	489.0	10.82	46.188		
3,200.0	3,149.5	3,182.5	3,178.2	10.6	6.1	-175.23	0.5	-19.3	516.4	505.3	11.17	46.227		
3,300.0	3,247.1	3,281.1	3,276.7	11.0	6.3	-175.21	0.5	-13.6	533.0	521.5	11.52	46.262		
3,400.0	3,344.7	3,379.7	3,375.1	11.4	6.5	-175.18	0.4	-7.9	549.6	537.7	11.87	46.295		
3,500.0	3,442.2	3,478.3	3,473.6	11.9	6.7	-175.16	0.4	-2.2	566.1	553.9	12.22	46.325		
3,600.0	3,539.8	3,577.0	3,572.1	12.3	6.9	-175.13	0.4	3.4	582.7	570.1	12.57	46.352		
3,700.0	3,637.4	3,675.6	3,670.5	12.7	7.1	-175.11	0.4	9.1	599.3	586.4	12.92	46.377		
3,800.0	3,734.9	3,774.2	3,769.0	13.1	7.3	-175.09	0.4	14.8	615.9	602.6	13.27	46.401		
3,900.0	3,832.5	3,872.8	3,867.4	13.6	7.5	-175.07	0.4	20.5	632.4	618.8	13.62	46.422		
4,000.0	3,930.1	3,971.4	3,965.9	14.0	7.7	-175.06	0.3	26.1	649.0	635.0	13.97	46.442		
4,100.0	4,027.7	4,070.0	4,064.3	14.4	7.9	-175.04	0.3	31.8	665.6	651.3	14.33	46.460		
4,200.0	4,125.2	4,168.7	4,162.8	14.8	8.1	-175.02	0.3	37.5	682.2	667.5	14.68	46.477		
4,300.0	4,222.8	4,267.3	4,261.2	15.3	8.3	-175.01	0.3	43.1	698.7	683.7	15.03	46.493		
4,400.0	4,320.4	4,365.9	4,359.7	15.7	8.5	-174.99	0.3	48.8	715.3	699.9	15.38	46.508		
4,500.0	4,417.9	4,464.5	4,458.1	16.1	8.7	-174.98	0.2	54.5	731.9	716.1	15.73	46.522		
4,600.0	4,515.5	4,563.1	4,556.6	16.5	8.9	-174.96	0.2	60.2	748.4	732.4	16.08	46.535		
4,700.0	4,613.1	4,661.7	4,655.0	17.0	9.1	-174.95	0.2	65.8	765.0	748.6	16.44	46.547		
4,800.0	4,710.6	4,760.4	4,753.5	17.4	9.3	-174.94	0.2	71.5	781.6	764.8	16.79	46.559		
4,900.0	4,808.2	4,859.0	4,852.0	17.8	9.5	-174.93	0.2	77.2	798.2	781.0	17.14	46.569		
5,000.0	4,905.8	4,957.6	4,950.4	18.3	9.7	-174.92	0.2	82.9	814.7	797.2	17.49	46.579		
5,100.0	5,003.3	5,056.2	5,048.9	18.7	9.9	-174.90	0.1	88.5	831.3	813.5	17.84	46.589		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,154.8	5,147.3	19.1	10.1	-174.89	0.1	94.2	847.9	829.7	18.20	46.598		
5,300.0	5,198.5	5,253.4	5,245.8	19.5	10.3	-174.88	0.1	99.9	864.5	845.9	18.55	46.606		
5,400.0	5,296.1	5,352.1	5,344.2	20.0	10.5	-174.87	0.1	105.5	881.0	862.1	18.90	46.614		
5,500.0	5,393.6	5,450.7	5,442.7	20.4	10.7	-174.86	0.1	111.2	897.6	878.4	19.25	46.621		
5,600.0	5,491.2	5,549.3	5,541.1	20.8	10.9	-174.86	0.0	116.9	914.2	894.6	19.61	46.628		
5,700.0	5,588.8	5,647.9	5,639.6	21.2	11.1	-174.85	0.0	122.6	930.8	910.8	19.96	46.635		
5,800.0	5,686.3	5,746.5	5,738.0	21.7	11.3	-174.84	0.0	128.2	947.3	927.0	20.31	46.642		
5,900.0	5,783.9	5,845.1	5,836.5	22.1	11.5	-174.83	0.0	133.9	963.9	943.2	20.66	46.648		
6,000.0	5,881.5	5,943.8	5,934.9	22.5	11.7	-174.82	0.0	139.6	980.5	959.5	21.02	46.653		
6,100.0	5,979.0	6,042.4	6,033.4	22.9	11.9	-174.81	0.0	145.3	997.0	975.7	21.37	46.659		
6,200.0	6,076.6	6,141.0	6,131.8	23.4	12.1	-174.81	-0.1	150.9	1,013.6	991.9	21.72	46.664		
6,300.0	6,174.2	6,239.6	6,230.3	23.8	12.3	-174.80	-0.1	156.6	1,030.2	1,008.1	22.07	46.669		
6,400.0	6,271.7	6,338.2	6,328.8	24.2	12.5	-174.79	-0.1	162.3	1,046.8	1,024.3	22.43	46.673		
6,500.0	6,369.3	6,436.8	6,427.2	24.7	12.7	-174.79	-0.1	167.9	1,063.3	1,040.6	22.78	46.678		
6,600.0	6,466.9	6,535.5	6,525.7	25.1	12.9	-174.78	-0.1	173.6	1,079.9	1,056.8	23.13	46.682		
6,700.0	6,564.5	6,634.1	6,624.1	25.5	13.1	-174.77	-0.2	179.3	1,096.5	1,073.0	23.49	46.686		
6,800.0	6,662.0	6,732.7	6,722.6	25.9	13.3	-174.77	-0.2	185.0	1,113.1	1,089.2	23.84	46.690		
6,900.0	6,759.6	6,831.3	6,821.0	26.4	13.5	-173.13	-0.2	190.6	1,129.6	1,105.4	24.19	46.693		
7,000.0	6,857.3	6,930.0	6,919.6	26.7	13.7	-136.59	-0.2	196.3	1,143.4	1,118.8	24.54	46.587		
7,100.0	6,953.8	7,053.1	7,042.4	27.0	13.9	-112.54	-1.7	203.4	1,151.8	1,126.9	24.93	46.204		
7,200.0	7,047.4	7,238.4	7,223.5	27.3	14.3	-104.06	-37.1	213.8	1,150.2	1,124.9	25.24	45.572		
7,300.0	7,136.1	7,357.0	7,332.2	27.5	14.6	-101.86	-83.8	220.1	1,142.8	1,117.3	25.54	44.751		
7,400.0	7,218.3	7,422.6	7,388.6	27.6	14.8	-100.96	-117.2	223.3	1,136.7	1,110.8	25.96	43.792		
7,466.1	7,268.3	7,446.1	7,408.0	27.7	14.9	-100.24	-130.3	224.5	1,135.4	1,109.1	26.25	43.256		
7,500.0	7,292.4	7,453.7	7,414.1	27.7	15.0	-99.76	-134.7	224.8	1,135.8	1,109.4	26.37	43.075		
7,600.0	7,356.9	7,462.7	7,421.4	27.9	15.0	-97.89	-140.0	225.2	1,141.5	1,114.8	26.69	42.764 SF		
7,700.0	7,410.5	7,457.4	7,417.1	28.1	15.0	-95.35	-136.9	225.0	1,154.1	1,127.2	26.91	42.883		
7,800.0	7,452.2	7,442.6	7,405.1	28.3	14.9	-92.25	-128.3	224.3	1,172.9	1,145.9	27.05	43.356		
7,900.0	7,481.2	7,421.1	7,387.3	28.5	14.8	-88.75	-116.3	223.3	1,196.9	1,169.8	27.15	44.085		
8,000.0	7,497.0	7,400.0	7,369.5	28.9	14.8	-85.28	-105.1	222.2	1,224.9	1,197.6	27.28	44.893		
8,100.0	7,500.0	7,365.5	7,339.6	29.2	14.7	-82.18	-87.8	220.5	1,255.6	1,228.3	27.34	45.930		
8,200.0	7,500.0	7,338.7	7,315.9	29.7	14.6	-81.06	-75.4	219.2	1,291.4	1,264.0	27.47	47.005		
8,300.0	7,500.0	7,315.4	7,294.9	30.3	14.5	-80.07	-65.4	217.9	1,333.0	1,305.3	27.64	48.219		
8,400.0	7,500.0	7,300.0	7,280.9	31.0	14.5	-79.42	-59.1	217.1	1,379.8	1,352.0	27.88	49.492		
8,500.0	7,500.0	7,277.0	7,259.7	31.7	14.4	-78.43	-50.3	215.9	1,431.6	1,403.6	28.04	51.048		
8,600.0	7,500.0	7,250.0	7,234.4	32.5	14.4	-77.28	-40.9	214.5	1,488.0	1,459.9	28.17	52.823		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-89.60	1.1	-160.0	160.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.60	1.1	-160.0	160.0	159.7	0.30	536.241		
200.0	200.0	201.0	201.0	0.3	0.3	-89.60	1.1	-160.0	160.0	159.4	0.65	247.163	CC	
300.0	300.0	301.0	301.0	0.5	0.5	91.02	1.1	-160.0	160.1	159.1	1.00	160.022		
400.0	399.8	400.9	400.9	0.7	0.7	92.89	1.1	-160.0	160.2	158.9	1.37	116.989	ES	
500.0	499.6	503.5	503.5	0.9	0.9	109.53	1.1	-159.1	160.7	159.0	1.75	91.817		
600.0	599.3	606.1	606.1	1.1	1.0	124.76	1.1	-156.3	161.4	159.3	2.13	75.770		
700.0	699.0	708.7	708.6	1.3	1.2	137.76	1.1	-151.7	162.4	159.9	2.51	64.782		
800.0	798.6	811.4	811.0	1.6	1.4	148.51	1.1	-145.3	163.6	160.7	2.88	56.859		
900.0	898.0	913.3	912.7	1.8	1.6	157.35	1.1	-137.1	165.0	161.8	3.24	50.938		
1,000.0	997.3	1,013.1	1,012.1	2.0	1.9	164.55	1.1	-128.6	167.8	164.3	3.59	46.708		
1,100.0	1,096.5	1,112.9	1,111.4	2.3	2.1	170.43	1.0	-120.0	172.5	168.6	3.94	43.761		
1,200.0	1,195.4	1,212.5	1,210.8	2.6	2.3	175.21	1.0	-111.5	179.0	174.7	4.29	41.744		
1,300.0	1,294.1	1,312.1	1,310.0	2.9	2.5	179.09	1.0	-103.0	187.2	182.6	4.63	40.415		
1,400.0	1,392.5	1,411.6	1,409.1	3.2	2.7	-177.80	1.0	-94.5	197.1	192.1	4.98	39.610		
1,500.0	1,490.6	1,510.9	1,508.0	3.6	2.9	-175.31	1.0	-86.0	208.5	203.2	5.32	39.211		
1,600.0	1,588.4	1,610.1	1,606.8	4.0	3.2	-173.35	1.0	-77.5	221.6	215.9	5.66	39.135		
1,700.0	1,686.0	1,709.1	1,705.5	4.4	3.4	-172.98	1.0	-69.1	235.6	229.6	6.01	39.213		
1,800.0	1,783.6	1,808.1	1,804.1	4.8	3.6	-172.81	0.9	-60.6	249.6	243.3	6.36	39.270		
1,900.0	1,881.1	1,907.1	1,902.8	5.2	3.8	-172.66	0.9	-52.2	263.7	256.9	6.71	39.311		
2,000.0	1,978.7	2,006.1	2,001.4	5.6	4.1	-172.53	0.9	-43.7	277.7	270.6	7.06	39.337		
2,100.0	2,076.3	2,105.1	2,100.0	6.0	4.3	-172.41	0.9	-35.2	291.7	284.3	7.41	39.353		
2,200.0	2,173.8	2,204.1	2,198.7	6.4	4.5	-172.30	0.9	-26.8	305.8	298.0	7.77	39.360		
2,300.0	2,271.4	2,303.1	2,297.3	6.8	4.7	-172.20	0.9	-18.3	319.8	311.7	8.12	39.361		
2,400.0	2,369.0	2,402.1	2,396.0	7.2	5.0	-172.11	0.9	-9.8	333.8	325.4	8.48	39.356		
2,500.0	2,466.5	2,501.1	2,494.6	7.7	5.2	-172.03	0.8	-1.4	347.9	339.0	8.84	39.348		
2,600.0	2,564.1	2,600.1	2,593.3	8.1	5.4	-171.95	0.8	7.1	361.9	352.7	9.20	39.336		
2,700.0	2,661.7	2,699.1	2,691.9	8.5	5.6	-171.88	0.8	15.6	376.0	366.4	9.56	39.322		
2,800.0	2,759.2	2,798.2	2,790.6	8.9	5.9	-171.81	0.8	24.0	390.0	380.1	9.92	39.305		
2,900.0	2,856.8	2,897.2	2,889.2	9.3	6.1	-171.75	0.8	32.5	404.0	393.8	10.28	39.288		
3,000.0	2,954.4	2,996.2	2,987.9	9.8	6.3	-171.69	0.8	40.9	418.1	407.4	10.65	39.269		
3,100.0	3,052.0	3,095.2	3,086.5	10.2	6.5	-171.64	0.7	49.4	432.1	421.1	11.01	39.250		
3,200.0	3,149.5	3,194.2	3,185.2	10.6	6.8	-171.59	0.7	57.9	446.2	434.8	11.37	39.230		
3,300.0	3,247.1	3,293.2	3,283.8	11.0	7.0	-171.54	0.7	66.3	460.2	448.5	11.74	39.210		
3,400.0	3,344.7	3,392.2	3,382.4	11.4	7.2	-171.50	0.7	74.8	474.3	462.2	12.10	39.190		
3,500.0	3,442.2	3,491.2	3,481.1	11.9	7.5	-171.46	0.7	83.3	488.3	475.8	12.47	39.170		
3,600.0	3,539.8	3,590.2	3,579.7	12.3	7.7	-171.42	0.7	91.7	502.4	489.5	12.83	39.149		
3,700.0	3,637.4	3,689.2	3,678.4	12.7	7.9	-171.38	0.7	100.2	516.4	503.2	13.20	39.129		
3,800.0	3,734.9	3,788.2	3,777.0	13.1	8.1	-171.34	0.6	108.7	530.4	516.9	13.56	39.109		
3,900.0	3,832.5	3,887.2	3,875.7	13.6	8.4	-171.31	0.6	117.1	544.5	530.6	13.93	39.089		
4,000.0	3,930.1	3,986.3	3,974.3	14.0	8.6	-171.28	0.6	125.6	558.5	544.2	14.30	39.070		
4,100.0	4,027.7	4,085.3	4,073.0	14.4	8.8	-171.25	0.6	134.0	572.6	557.9	14.66	39.051		
4,200.0	4,125.2	4,184.3	4,171.6	14.8	9.0	-171.22	0.6	142.5	586.6	571.6	15.03	39.032		
4,300.0	4,222.8	4,283.3	4,270.3	15.3	9.3	-171.19	0.6	151.0	600.7	585.3	15.40	39.014		
4,400.0	4,320.4	4,382.3	4,368.9	15.7	9.5	-171.16	0.5	159.4	614.7	598.9	15.76	38.995		
4,500.0	4,417.9	4,481.3	4,467.5	16.1	9.7	-171.14	0.5	167.9	628.8	612.6	16.13	38.978		
4,600.0	4,515.5	4,580.3	4,566.2	16.5	10.0	-171.12	0.5	176.4	642.8	626.3	16.50	38.960		
4,700.0	4,613.1	4,679.3	4,664.8	17.0	10.2	-171.09	0.5	184.8	656.9	640.0	16.87	38.943		
4,800.0	4,710.6	4,778.3	4,763.5	17.4	10.4	-171.07	0.5	193.3	670.9	653.7	17.23	38.927		
4,900.0	4,808.2	4,877.3	4,862.1	17.8	10.6	-171.05	0.5	201.7	684.9	667.3	17.60	38.911		
5,000.0	4,905.8	4,976.3	4,960.8	18.3	10.9	-171.03	0.5	210.2	699.0	681.0	17.97	38.895		
5,100.0	5,003.3	5,075.3	5,059.4	18.7	11.1	-171.01	0.4	218.7	713.0	694.7	18.34	38.879		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,174.3	5,158.1	19.1	11.3	-170.99	0.4	227.1	727.1	708.4	18.71	38.864		
5,300.0	5,198.5	5,273.4	5,256.7	19.5	11.5	-170.97	0.4	235.6	741.1	722.1	19.08	38.849		
5,400.0	5,296.1	5,372.4	5,355.4	20.0	11.8	-170.96	0.4	244.1	755.2	735.7	19.45	38.835		
5,500.0	5,393.6	5,471.4	5,454.0	20.4	12.0	-170.94	0.4	252.5	769.2	749.4	19.81	38.821		
5,600.0	5,491.2	5,570.4	5,552.7	20.8	12.2	-170.92	0.4	261.0	783.3	763.1	20.18	38.807		
5,700.0	5,588.8	5,669.4	5,651.3	21.2	12.5	-170.91	0.4	269.5	797.3	776.8	20.55	38.793		
5,800.0	5,686.3	5,768.4	5,749.9	21.7	12.7	-170.89	0.3	277.9	811.4	790.4	20.92	38.780		
5,900.0	5,783.9	5,867.4	5,848.6	22.1	12.9	-170.88	0.3	286.4	825.4	804.1	21.29	38.767		
6,000.0	5,881.5	5,966.4	5,947.2	22.5	13.1	-170.86	0.3	294.8	839.5	817.8	21.66	38.755		
6,100.0	5,979.0	6,065.4	6,045.9	22.9	13.4	-170.85	0.3	303.3	853.5	831.5	22.03	38.743		
6,200.0	6,076.6	6,164.4	6,144.5	23.4	13.6	-170.84	0.3	311.8	867.6	845.2	22.40	38.731		
6,300.0	6,174.2	6,263.4	6,243.2	23.8	13.8	-170.82	0.3	320.2	881.6	858.8	22.77	38.719		
6,400.0	6,271.7	6,362.4	6,341.8	24.2	14.0	-170.81	0.2	328.7	895.7	872.5	23.14	38.707		
6,500.0	6,369.3	6,461.5	6,440.5	24.7	14.3	-170.80	0.2	337.2	909.7	886.2	23.51	38.696		
6,600.0	6,466.9	6,560.5	6,539.1	25.1	14.5	-170.79	0.2	345.6	923.7	899.9	23.88	38.685		
6,700.0	6,564.5	6,659.5	6,637.8	25.5	14.7	-170.78	0.2	354.1	937.8	913.5	24.25	38.674		
6,800.0	6,662.0	6,769.9	6,764.7	25.9	15.0	-170.86	-1.5	365.0	951.5	926.9	24.66	38.580		
6,900.0	6,759.6	7,012.3	6,982.6	26.4	15.6	-171.99	-51.9	383.7	956.0	931.4	24.62	38.829		
7,000.0	6,857.3	7,191.0	7,137.7	26.7	16.1	-142.11	-138.7	397.0	948.2	923.6	24.54	38.630		
7,100.0	6,953.8	7,303.8	7,222.7	27.0	16.6	-123.60	-212.3	404.3	935.0	909.8	25.21	37.092		
7,200.0	7,047.4	7,365.7	7,264.1	27.3	17.0	-114.82	-258.1	407.8	924.8	898.6	26.23	35.257		
7,281.0	7,119.7	7,390.9	7,279.8	27.4	17.1	-110.47	-277.8	409.2	921.9	894.9	27.00	34.149		
7,300.0	7,136.1	7,394.4	7,282.0	27.5	17.2	-109.58	-280.6	409.4	922.0	894.9	27.15	33.957		
7,400.0	7,218.3	7,402.0	7,286.6	27.6	17.2	-105.20	-286.6	409.8	928.6	900.8	27.81	33.396 SF		
7,500.0	7,292.4	7,395.8	7,282.8	27.7	17.2	-100.73	-281.7	409.4	944.7	916.5	28.18	33.519		
7,600.0	7,356.9	7,380.3	7,273.3	27.9	17.1	-95.92	-269.5	408.6	969.1	940.8	28.34	34.195		
7,700.0	7,410.5	7,358.3	7,259.4	28.1	16.9	-90.78	-252.5	407.4	1,000.4	972.1	28.36	35.279		
7,800.0	7,452.2	7,331.6	7,241.8	28.3	16.8	-85.46	-232.5	405.9	1,036.8	1,008.4	28.32	36.608		
7,900.0	7,481.2	7,300.0	7,220.1	28.5	16.6	-80.12	-209.6	404.0	1,076.2	1,048.0	28.25	38.100		
8,000.0	7,497.0	7,268.8	7,197.6	28.9	16.5	-75.20	-188.0	402.1	1,117.1	1,088.8	28.28	39.498		
8,100.0	7,500.0	7,234.4	7,171.8	29.2	16.3	-71.71	-165.4	399.9	1,158.2	1,129.8	28.34	40.865		
8,200.0	7,500.0	7,200.0	7,144.9	29.7	16.2	-70.37	-144.1	397.6	1,203.1	1,174.7	28.42	42.337		
8,300.0	7,500.0	7,174.1	7,124.0	30.3	16.1	-69.34	-128.9	395.8	1,253.0	1,224.4	28.64	43.746		
8,400.0	7,500.0	7,150.0	7,104.1	31.0	16.0	-68.38	-115.4	394.1	1,307.5	1,278.6	28.88	45.274		
8,500.0	7,500.0	7,125.4	7,083.4	31.7	15.9	-67.40	-102.4	392.3	1,366.1	1,337.0	29.09	46.955		
8,600.0	7,500.0	7,100.0	7,061.4	32.5	15.8	-66.38	-89.6	390.4	1,428.6	1,399.3	29.28	48.792		
8,700.0	7,500.0	7,100.0	7,061.4	33.4	15.8	-66.38	-89.6	390.4	1,494.6	1,464.8	29.80	50.151		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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				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	-89.57	1.1	-150.0	150.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.57	1.1	-150.0	150.0	149.7	0.30	502.494		
116.3	116.3	117.3	117.3	0.2	0.2	-89.57	1.1	-150.0	150.0	149.6	0.36	421.911	CC	
200.0	200.0	201.0	201.0	0.3	0.3	-89.57	1.1	-150.0	150.0	149.3	0.65	231.604		
300.0	300.0	300.9	300.9	0.5	0.5	91.43	2.0	-150.0	150.0	149.0	1.00	149.843	ES	
400.0	399.8	400.5	400.4	0.7	0.7	94.40	4.6	-150.0	150.4	149.0	1.38	109.379		
500.0	499.6	499.5	499.4	0.9	0.9	112.68	8.9	-150.0	152.6	150.8	1.76	86.626		
600.0	599.3	598.1	597.8	1.1	1.1	129.88	14.9	-150.0	157.6	155.4	2.15	73.199		
700.0	699.0	699.8	699.3	1.3	1.3	144.75	21.6	-149.2	164.6	162.1	2.54	64.765		
800.0	798.6	801.9	801.2	1.6	1.5	156.72	27.2	-147.0	172.4	169.5	2.92	59.016		
900.0	898.0	904.3	903.4	1.8	1.7	166.20	31.8	-143.2	180.5	177.2	3.29	54.861		
1,000.0	997.3	1,006.9	1,005.8	2.0	1.9	173.70	35.5	-137.9	188.9	185.2	3.65	51.682		
1,100.0	1,096.5	1,109.8	1,108.5	2.3	2.1	179.62	38.1	-131.1	197.2	193.2	4.02	49.119		
1,200.0	1,195.4	1,213.0	1,211.3	2.6	2.3	-175.69	39.7	-122.6	205.5	201.1	4.38	46.956		
1,300.0	1,294.1	1,316.4	1,314.2	2.9	2.5	-171.99	40.3	-112.6	213.5	208.7	4.74	45.062		
1,400.0	1,392.5	1,419.8	1,416.9	3.2	2.7	-169.10	39.9	-101.1	221.2	216.1	5.10	43.358		
1,500.0	1,490.6	1,519.4	1,515.8	3.6	2.9	-166.87	39.0	-89.4	229.6	224.1	5.47	42.004		
1,600.0	1,588.4	1,618.9	1,614.6	4.0	3.2	-165.17	38.1	-77.6	239.5	233.6	5.83	41.045		
1,700.0	1,686.0	1,718.3	1,713.4	4.4	3.4	-165.04	37.2	-65.9	250.2	244.0	6.21	40.324		
1,800.0	1,783.6	1,817.7	1,812.1	4.8	3.7	-165.10	36.4	-54.1	261.0	254.4	6.58	39.667		
1,900.0	1,881.1	1,917.2	1,910.8	5.2	3.9	-165.15	35.5	-42.4	271.8	264.8	6.96	39.068		
2,000.0	1,978.7	2,016.6	2,009.5	5.6	4.2	-165.19	34.6	-30.6	282.5	275.2	7.34	38.519		
2,100.0	2,076.3	2,116.0	2,108.2	6.0	4.4	-165.24	33.7	-18.9	293.3	285.6	7.72	38.016		
2,200.0	2,173.8	2,215.4	2,207.0	6.4	4.7	-165.28	32.9	-7.1	304.1	296.0	8.10	37.553		
2,300.0	2,271.4	2,314.8	2,305.7	6.8	4.9	-165.32	32.0	4.6	314.9	306.4	8.48	37.127		
2,400.0	2,369.0	2,414.2	2,404.4	7.2	5.2	-165.35	31.1	16.3	325.6	316.8	8.86	36.733		
2,500.0	2,466.5	2,513.7	2,503.1	7.7	5.4	-165.39	30.2	28.1	336.4	327.1	9.25	36.368		
2,600.0	2,564.1	2,613.1	2,601.8	8.1	5.7	-165.42	29.4	39.8	347.2	337.5	9.64	36.030		
2,700.0	2,661.7	2,712.5	2,700.5	8.5	6.0	-165.45	28.5	51.6	357.9	347.9	10.02	35.715		
2,800.0	2,759.2	2,811.9	2,799.3	8.9	6.2	-165.47	27.6	63.3	368.7	358.3	10.41	35.421		
2,900.0	2,856.8	2,911.3	2,898.0	9.3	6.5	-165.50	26.7	75.1	379.5	368.7	10.80	35.147		
3,000.0	2,954.4	3,010.8	2,996.7	9.8	6.8	-165.53	25.9	86.8	390.2	379.1	11.18	34.891		
3,100.0	3,052.0	3,110.2	3,095.4	10.2	7.0	-165.55	25.0	98.5	401.0	389.4	11.57	34.650		
3,200.0	3,149.5	3,209.6	3,194.1	10.6	7.3	-165.57	24.1	110.3	411.8	399.8	11.96	34.424		
3,300.0	3,247.1	3,309.0	3,292.9	11.0	7.5	-165.59	23.2	122.0	422.6	410.2	12.35	34.212		
3,400.0	3,344.7	3,408.4	3,391.6	11.4	7.8	-165.61	22.4	133.8	433.3	420.6	12.74	34.011		
3,500.0	3,442.2	3,507.8	3,490.3	11.9	8.1	-165.63	21.5	145.5	444.1	431.0	13.13	33.822		
3,600.0	3,539.8	3,607.3	3,589.0	12.3	8.3	-165.65	20.6	157.3	454.9	441.4	13.52	33.643		
3,700.0	3,637.4	3,706.7	3,687.7	12.7	8.6	-165.67	19.7	169.0	465.6	451.7	13.91	33.474		
3,800.0	3,734.9	3,806.1	3,786.4	13.1	8.9	-165.68	18.9	180.8	476.4	462.1	14.30	33.314		
3,900.0	3,832.5	3,905.5	3,885.2	13.6	9.1	-165.70	18.0	192.5	487.2	472.5	14.69	33.161		
4,000.0	3,930.1	4,004.9	3,983.9	14.0	9.4	-165.71	17.1	204.2	498.0	482.9	15.08	33.016		
4,100.0	4,027.7	4,104.4	4,082.6	14.4	9.7	-165.73	16.2	216.0	508.7	493.3	15.47	32.879		
4,200.0	4,125.2	4,203.8	4,181.3	14.8	9.9	-165.74	15.4	227.7	519.5	503.6	15.86	32.747		
4,300.0	4,222.8	4,303.2	4,280.0	15.3	10.2	-165.75	14.5	239.5	530.3	514.0	16.26	32.622		
4,400.0	4,320.4	4,402.6	4,378.8	15.7	10.5	-165.77	13.6	251.2	541.1	524.4	16.65	32.503		
4,500.0	4,417.9	4,502.0	4,477.5	16.1	10.7	-165.78	12.7	263.0	551.8	534.8	17.04	32.388		
4,600.0	4,515.5	4,601.4	4,576.2	16.5	11.0	-165.79	11.9	274.7	562.6	545.2	17.43	32.279		
4,700.0	4,613.1	4,700.9	4,674.9	17.0	11.3	-165.80	11.0	286.4	573.4	555.5	17.82	32.175		
4,800.0	4,710.6	4,800.3	4,773.6	17.4	11.5	-165.81	10.1	298.2	584.1	565.9	18.21	32.074		
4,900.0	4,808.2	4,899.7	4,872.3	17.8	11.8	-165.82	9.2	309.9	594.9	576.3	18.60	31.978		
5,000.0	4,905.8	4,999.1	4,971.1	18.3	12.1	-165.83	8.4	321.7	605.7	586.7	19.00	31.886		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference													Distance		Warning
Offset				Semi Major Axis			Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)	(ft)			
5,100.0	5,003.3	5,098.5	5,069.8	18.7	12.4	-165.84	7.5	333.4	616.5	597.1	19.39	31.797			
5,200.0	5,100.9	5,198.0	5,168.5	19.1	12.6	-165.85	6.6	345.2	627.2	607.4	19.78	31.712			
5,300.0	5,198.5	5,297.4	5,267.2	19.5	12.9	-165.86	5.7	356.9	638.0	617.8	20.17	31.630			
5,400.0	5,296.1	5,396.8	5,365.9	20.0	13.2	-165.87	4.9	368.6	648.8	628.2	20.56	31.551			
5,500.0	5,393.6	5,496.2	5,464.7	20.4	13.4	-165.88	4.0	380.4	659.5	638.6	20.95	31.475			
5,600.0	5,491.2	5,595.6	5,563.4	20.8	13.7	-165.89	3.1	392.1	670.3	649.0	21.35	31.401			
5,700.0	5,588.8	5,695.0	5,662.1	21.2	14.0	-165.90	2.2	403.9	681.1	659.3	21.74	31.331			
5,800.0	5,686.3	5,794.5	5,760.8	21.7	14.2	-165.90	1.4	415.6	691.9	669.7	22.13	31.262			
5,900.0	5,783.9	5,893.9	5,859.5	22.1	14.5	-165.91	0.5	427.4	702.6	680.1	22.52	31.196			
6,000.0	5,881.5	5,993.3	5,958.2	22.5	14.8	-165.92	-0.4	439.1	713.4	690.5	22.92	31.132			
6,100.0	5,979.0	6,092.7	6,057.0	22.9	15.0	-165.93	-1.3	450.8	724.2	700.9	23.31	31.070			
6,200.0	6,076.6	6,192.1	6,155.7	23.4	15.3	-165.93	-2.1	462.6	734.9	711.2	23.70	31.011			
6,300.0	6,174.2	6,291.6	6,254.4	23.8	15.6	-165.94	-3.0	474.3	745.7	721.6	24.09	30.953			
6,400.0	6,271.7	6,391.0	6,353.1	24.2	15.8	-165.94	-3.9	486.1	756.5	732.0	24.48	30.897			
6,500.0	6,369.3	6,490.4	6,451.8	24.7	16.1	-165.95	-4.8	497.8	767.3	742.4	24.88	30.843			
6,600.0	6,466.9	6,589.8	6,550.6	25.1	16.4	-165.96	-5.6	509.6	778.0	752.8	25.27	30.790			
6,700.0	6,564.5	6,689.2	6,649.3	25.5	16.7	-165.96	-6.5	521.3	788.8	763.1	25.66	30.739			
6,800.0	6,662.0	6,788.6	6,748.0	25.9	16.9	-165.97	-7.4	533.1	799.6	773.5	26.05	30.690			
6,900.0	6,759.6	6,888.1	6,846.7	26.4	17.2	-164.37	-8.3	544.8	810.3	783.9	26.45	30.641			
7,000.0	6,857.3	6,987.5	6,945.5	26.7	17.5	-128.49	-9.1	556.5	817.3	790.5	26.79	30.503			
7,100.0	6,953.8	7,130.4	7,087.2	27.0	17.8	-106.02	-14.8	573.5	816.4	789.4	27.00	30.236			
7,200.0	7,047.4	7,311.3	7,260.8	27.3	18.4	-100.58	-58.7	594.9	800.6	774.3	26.31	30.429			
7,300.0	7,136.1	7,423.5	7,360.9	27.5	18.8	-101.45	-107.5	607.6	778.3	752.5	25.76	30.208			
7,400.0	7,218.3	7,484.1	7,411.5	27.6	19.0	-102.79	-140.3	614.2	759.3	733.5	25.89	29.335			
7,500.0	7,292.4	7,511.6	7,433.4	27.7	19.1	-102.81	-156.5	617.1	749.7	723.3	26.44	28.353			
7,532.4	7,314.4	7,515.6	7,436.5	27.8	19.1	-102.47	-158.9	617.5	749.0	722.4	26.68	28.073			
7,600.0	7,356.9	7,518.1	7,438.5	27.9	19.1	-101.26	-160.5	617.8	751.9	724.7	27.16	27.686			
7,700.0	7,410.5	7,511.0	7,433.0	28.1	19.1	-98.29	-156.1	617.0	766.2	738.3	27.87	27.488 SF			
7,800.0	7,452.2	7,500.0	7,424.2	28.3	19.0	-94.54	-149.5	615.9	791.4	762.8	28.64	27.637			
7,900.0	7,481.2	7,472.2	7,401.8	28.5	18.9	-89.18	-133.5	612.9	825.4	796.3	29.15	28.315			
8,000.0	7,497.0	7,450.0	7,383.3	28.9	18.8	-84.02	-121.3	610.5	865.8	836.0	29.83	29.022			
8,100.0	7,500.0	7,415.0	7,353.6	29.2	18.7	-79.41	-103.2	606.7	910.4	880.1	30.30	30.048			
8,200.0	7,500.0	7,387.4	7,329.6	29.7	18.6	-77.79	-90.1	603.6	961.0	930.1	30.88	31.118			
8,300.0	7,500.0	7,363.5	7,308.3	30.3	18.5	-76.37	-79.4	600.9	1,017.7	986.2	31.46	32.345			
8,400.0	7,500.0	7,350.0	7,296.2	31.0	18.5	-75.57	-73.7	599.3	1,079.9	1,047.7	32.16	33.580			
8,500.0	7,500.0	7,323.9	7,272.4	31.7	18.4	-74.03	-63.4	596.3	1,146.6	1,114.1	32.56	35.220			
8,600.0	7,500.0	7,300.0	7,250.3	32.5	18.3	-72.64	-54.7	593.6	1,217.5	1,184.5	32.93	36.968			
8,700.0	7,500.0	7,300.0	7,250.3	33.4	18.3	-72.64	-54.7	593.6	1,291.7	1,258.1	33.61	38.437			
8,800.0	7,500.0	7,279.4	7,231.1	34.4	18.3	-71.45	-47.8	591.2	1,368.8	1,334.9	33.92	40.360			
8,900.0	7,500.0	7,267.5	7,219.9	35.4	18.2	-70.76	-44.0	589.8	1,448.5	1,414.2	34.30	42.235			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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				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	-89.67	0.8	-139.9	139.9					
100.0	100.0	101.0	101.0	0.1	0.2	-89.67	0.8	-139.9	139.9	139.6	0.30	468.739		
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	0.8	-139.9	139.9	139.2	0.65	216.050	CC	
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	0.8	-139.9	139.9	139.2	0.65	216.010		
300.0	300.0	301.0	301.0	0.5	0.5	91.04	0.8	-139.9	139.9	138.9	1.00	139.880		
400.0	399.8	400.8	400.8	0.7	0.7	93.18	0.8	-139.9	140.1	138.7	1.37	102.294	ES	
500.0	499.6	500.6	500.6	0.9	0.8	110.06	0.8	-139.9	141.5	139.8	1.75	81.099		
600.0	599.3	602.9	602.9	1.1	1.0	125.52	0.8	-139.0	144.1	142.0	2.12	67.840		
700.0	699.0	705.2	705.1	1.3	1.2	138.68	0.9	-136.2	147.0	144.5	2.50	58.809		
800.0	798.6	807.5	807.4	1.6	1.4	149.53	0.9	-131.6	150.0	147.2	2.87	52.338		
900.0	898.0	909.9	909.5	1.8	1.6	158.44	1.0	-125.2	153.4	150.1	3.23	47.513		
1,000.0	997.3	1,012.3	1,011.6	2.0	1.8	165.83	1.2	-117.0	156.9	153.3	3.58	43.794		
1,100.0	1,096.5	1,114.7	1,113.5	2.3	2.0	172.06	1.3	-107.0	160.6	156.6	3.93	40.835		
1,200.0	1,195.4	1,217.1	1,215.2	2.6	2.3	177.40	1.5	-95.1	164.4	160.1	4.28	38.407		
1,300.0	1,294.1	1,319.6	1,316.8	2.9	2.6	-177.96	1.7	-81.4	168.4	163.8	4.63	36.348		
1,400.0	1,392.5	1,422.1	1,418.1	3.2	2.8	-173.87	2.0	-65.9	172.5	167.5	4.99	34.545		
1,500.0	1,490.6	1,522.8	1,517.4	3.6	3.2	-170.32	2.3	-49.2	177.1	171.7	5.37	32.995		
1,600.0	1,588.4	1,622.5	1,615.8	4.0	3.5	-167.40	2.5	-32.7	183.2	177.5	5.75	31.848		
1,700.0	1,686.0	1,722.2	1,714.1	4.4	3.8	-166.15	2.8	-16.1	190.4	184.2	6.15	30.942		
1,800.0	1,783.6	1,821.9	1,812.4	4.8	4.1	-165.17	3.1	0.5	197.6	191.0	6.56	30.096		
1,900.0	1,881.1	1,921.6	1,910.7	5.2	4.4	-164.26	3.3	17.0	204.8	197.8	6.99	29.303		
2,000.0	1,978.7	2,021.3	2,009.0	5.6	4.7	-163.40	3.6	33.6	212.1	204.7	7.43	28.560		
2,100.0	2,076.3	2,120.9	2,107.3	6.0	5.1	-162.61	3.9	50.2	219.5	211.6	7.88	27.865		
2,200.0	2,173.8	2,220.6	2,205.6	6.4	5.4	-161.87	4.1	66.7	226.9	218.5	8.34	27.215		
2,300.0	2,271.4	2,320.3	2,303.9	6.8	5.7	-161.17	4.4	83.3	234.3	225.5	8.81	26.607		
2,400.0	2,369.0	2,420.0	2,402.2	7.2	6.1	-160.52	4.7	99.9	241.7	232.4	9.28	26.039		
2,500.0	2,466.5	2,519.7	2,500.5	7.7	6.4	-159.90	4.9	116.4	249.2	239.4	9.77	25.507		
2,600.0	2,564.1	2,619.4	2,598.8	8.1	6.7	-159.33	5.2	133.0	256.7	246.5	10.27	25.009		
2,700.0	2,661.7	2,719.1	2,697.1	8.5	7.1	-158.78	5.5	149.6	264.3	253.5	10.77	24.544		
2,800.0	2,759.2	2,818.7	2,795.4	8.9	7.4	-158.27	5.7	166.1	271.8	260.5	11.27	24.108		
2,900.0	2,856.8	2,918.4	2,893.7	9.3	7.7	-157.78	6.0	182.7	279.4	267.6	11.79	23.699		
3,000.0	2,954.4	3,018.1	2,992.0	9.8	8.1	-157.32	6.3	199.3	287.0	274.7	12.31	23.316		
3,100.0	3,052.0	3,117.8	3,090.2	10.2	8.4	-156.88	6.5	215.8	294.6	281.8	12.83	22.956		
3,200.0	3,149.5	3,217.5	3,188.5	10.6	8.7	-156.46	6.8	232.4	302.2	288.9	13.36	22.617		
3,300.0	3,247.1	3,317.2	3,286.8	11.0	9.1	-156.07	7.1	248.9	309.9	296.0	13.90	22.299		
3,400.0	3,344.7	3,416.8	3,385.1	11.4	9.4	-155.69	7.3	265.5	317.5	303.1	14.43	21.999		
3,500.0	3,442.2	3,516.5	3,483.4	11.9	9.8	-155.33	7.6	282.1	325.2	310.2	14.97	21.717		
3,600.0	3,539.8	3,616.2	3,581.7	12.3	10.1	-154.99	7.9	298.6	332.9	317.4	15.52	21.450		
3,700.0	3,637.4	3,715.9	3,680.0	12.7	10.4	-154.67	8.1	315.2	340.6	324.5	16.07	21.198		
3,800.0	3,734.9	3,815.6	3,778.3	13.1	10.8	-154.35	8.4	331.8	348.3	331.7	16.62	20.960		
3,900.0	3,832.5	3,915.3	3,876.6	13.6	11.1	-154.06	8.7	348.3	356.0	338.8	17.17	20.734		
4,000.0	3,930.1	4,015.0	3,974.9	14.0	11.4	-153.77	8.9	364.9	363.7	346.0	17.73	20.520		
4,100.0	4,027.7	4,114.6	4,073.2	14.4	11.8	-153.50	9.2	381.5	371.5	353.2	18.28	20.317		
4,200.0	4,125.2	4,214.3	4,171.5	14.8	12.1	-153.23	9.5	398.0	379.2	360.4	18.84	20.124		
4,300.0	4,222.8	4,314.0	4,269.8	15.3	12.5	-152.98	9.7	414.6	386.9	367.5	19.40	19.940		
4,400.0	4,320.4	4,413.7	4,368.1	15.7	12.8	-152.74	10.0	431.2	394.7	374.7	19.97	19.766		
4,500.0	4,417.9	4,513.4	4,466.4	16.1	13.1	-152.51	10.3	447.7	402.5	381.9	20.53	19.600		
4,600.0	4,515.5	4,613.1	4,564.7	16.5	13.5	-152.28	10.5	464.3	410.2	389.1	21.10	19.441		
4,700.0	4,613.1	4,712.8	4,663.0	17.0	13.8	-152.07	10.8	480.9	418.0	396.3	21.67	19.290		
4,800.0	4,710.6	4,812.4	4,761.3	17.4	14.2	-151.86	11.1	497.4	425.8	403.5	22.24	19.145		
4,900.0	4,808.2	4,912.1	4,859.6	17.8	14.5	-151.66	11.3	514.0	433.6	410.8	22.81	19.007		
5,000.0	4,905.8	5,011.8	4,957.9	18.3	14.8	-151.46	11.6	530.6	441.4	418.0	23.38	18.874		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,111.5	5,056.2	18.7	15.2	-151.28	11.9	547.1	449.2	425.2	23.96	18.748		
5,200.0	5,100.9	5,211.2	5,154.5	19.1	15.5	-151.10	12.1	563.7	457.0	432.4	24.53	18.626		
5,300.0	5,198.5	5,310.9	5,252.8	19.5	15.8	-150.92	12.4	580.3	464.8	439.7	25.11	18.510		
5,400.0	5,296.1	5,410.5	5,351.1	20.0	16.2	-150.75	12.7	596.8	472.6	446.9	25.69	18.398		
5,500.0	5,393.6	5,510.2	5,449.4	20.4	16.5	-150.59	12.9	613.4	480.4	454.1	26.26	18.290		
5,600.0	5,491.2	5,609.9	5,547.7	20.8	16.9	-150.43	13.2	630.0	488.2	461.4	26.84	18.187		
5,700.0	5,588.8	5,709.6	5,646.0	21.2	17.2	-150.28	13.5	646.5	496.0	468.6	27.42	18.088		
5,800.0	5,686.3	5,809.3	5,744.3	21.7	17.5	-150.13	13.7	663.1	503.8	475.8	28.00	17.992		
5,900.0	5,783.9	5,909.0	5,842.6	22.1	17.9	-149.99	14.0	679.7	511.7	483.1	28.58	17.900		
6,000.0	5,881.5	6,008.7	5,940.9	22.5	18.2	-149.85	14.3	696.2	519.5	490.3	29.17	17.811		
6,100.0	5,979.0	6,108.3	6,039.2	22.9	18.6	-149.71	14.5	712.8	527.3	497.6	29.75	17.726		
6,200.0	6,076.6	6,208.0	6,137.5	23.4	18.9	-149.58	14.8	729.3	535.2	504.8	30.33	17.643		
6,300.0	6,174.2	6,307.7	6,235.8	23.8	19.2	-149.46	15.1	745.9	543.0	512.1	30.92	17.563		
6,400.0	6,271.7	6,407.4	6,334.1	24.2	19.6	-149.33	15.3	762.5	550.8	519.3	31.50	17.486		
6,500.0	6,369.3	6,507.1	6,432.4	24.7	19.9	-149.21	15.6	779.0	558.7	526.6	32.09	17.412		
6,600.0	6,466.9	6,606.8	6,530.7	25.1	20.3	-149.10	15.9	795.6	566.5	533.9	32.67	17.340		
6,700.0	6,564.5	6,706.5	6,629.0	25.5	20.6	-148.98	16.1	812.2	574.4	541.1	33.26	17.270		
6,800.0	6,662.0	6,815.9	6,736.9	25.9	21.0	-148.87	16.2	830.4	582.2	548.3	33.87	17.188		
6,900.0	6,759.6	7,058.7	6,971.0	26.4	21.8	-150.24	-29.3	869.8	575.9	543.4	32.49	17.724		
7,000.0	6,857.3	7,251.8	7,138.1	26.7	22.5	-124.63	-120.6	898.0	544.9	516.3	28.52	19.104		
7,100.0	6,953.8	7,371.7	7,227.4	27.0	23.0	-113.39	-198.8	913.0	500.2	474.7	25.53	19.590		
7,200.0	7,047.4	7,436.0	7,269.7	27.3	23.3	-111.48	-246.7	920.1	457.3	432.5	24.76	18.467		
7,300.0	7,136.1	7,465.1	7,287.4	27.5	23.5	-110.61	-269.6	923.1	427.5	401.7	25.79	16.576		
7,389.6	7,210.2	7,472.3	7,291.7	27.6	23.5	-108.38	-275.4	923.8	418.2	390.7	27.49	15.216		
7,400.0	7,218.3	7,472.3	7,291.7	27.6	23.5	-108.01	-275.4	923.8	418.4	390.7	27.69	15.106		
7,500.0	7,292.4	7,465.5	7,287.6	27.7	23.5	-103.16	-269.9	923.2	432.2	402.6	29.59	14.609 SF		
7,600.0	7,356.9	7,450.0	7,278.4	27.9	23.4	-96.34	-257.7	921.6	466.3	435.2	31.08	15.000		
7,700.0	7,410.5	7,426.5	7,263.8	28.1	23.3	-87.77	-239.5	919.1	514.9	482.8	32.11	16.036		
7,800.0	7,452.2	7,400.0	7,246.6	28.3	23.2	-78.65	-219.4	916.2	572.4	539.4	33.01	17.341		
7,900.0	7,481.2	7,368.4	7,225.2	28.5	23.0	-69.61	-196.5	912.6	634.3	600.5	33.76	18.790		
8,000.0	7,497.0	7,335.1	7,201.6	28.9	22.9	-61.66	-173.3	908.7	697.1	662.6	34.54	20.183		
8,100.0	7,500.0	7,300.0	7,175.6	29.2	22.7	-56.49	-150.2	904.3	759.2	723.9	35.33	21.485		
8,200.0	7,500.0	7,267.8	7,150.7	29.7	22.6	-54.75	-130.1	900.1	824.6	788.5	36.12	22.832		
8,300.0	7,500.0	7,250.0	7,136.7	30.3	22.5	-53.80	-119.5	897.7	894.5	857.3	37.22	24.035		
8,400.0	7,500.0	7,200.0	7,095.7	31.0	22.3	-51.23	-91.6	890.8	968.0	930.9	37.11	26.084		
8,500.0	7,500.0	7,200.0	7,095.7	31.7	22.3	-51.23	-91.6	890.8	1,044.5	1,006.1	38.40	27.201		
8,600.0	7,500.0	7,168.5	7,069.0	32.5	22.2	-49.68	-75.6	886.3	1,123.6	1,085.0	38.66	29.068		
8,700.0	7,500.0	7,150.0	7,053.0	33.4	22.1	-48.80	-66.7	883.6	1,205.1	1,166.0	39.16	30.772		
8,800.0	7,500.0	7,132.1	7,037.3	34.4	22.1	-47.96	-58.6	881.0	1,288.6	1,249.0	39.59	32.545		
8,900.0	7,500.0	7,116.3	7,023.2	35.4	22.0	-47.24	-51.7	878.6	1,373.7	1,333.7	40.00	34.344		
9,000.0	7,500.0	7,100.0	7,008.6	36.5	21.9	-46.51	-44.9	876.1	1,460.3	1,420.0	40.33	36.206		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Well Error:	0.0 ft
Survey Program: O-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-89.67	0.8	-129.8	129.8					
100.0	100.0	101.0	101.0	0.1	0.2	-89.67	0.8	-129.8	129.8	129.5	0.30	434.990		
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	0.8	-129.8	129.8	129.2	0.65	200.494	CC	
200.0	200.0	201.0	201.0	0.3	0.3	-89.67	0.8	-129.8	129.8	129.2	0.65	200.468		
300.0	300.0	301.0	301.0	0.5	0.5	91.10	0.8	-129.8	129.8	128.8	1.00	129.811		
400.0	399.8	400.8	400.8	0.7	0.7	93.40	0.8	-129.8	130.1	128.7	1.37	94.950	ES	
500.0	499.6	500.0	500.0	0.9	0.8	111.23	2.5	-129.8	131.7	130.0	1.75	75.450		
600.0	599.3	598.5	598.3	1.1	1.0	128.81	7.6	-129.8	136.3	134.2	2.13	64.054		
700.0	699.0	699.9	699.5	1.3	1.2	144.44	14.4	-129.0	143.2	140.7	2.51	56.987		
800.0	798.6	801.6	801.0	1.6	1.4	157.12	20.5	-126.5	150.9	148.0	2.89	52.207		
900.0	898.0	903.6	902.8	1.8	1.6	167.30	25.9	-122.4	159.1	155.8	3.26	48.789		
1,000.0	997.3	1,005.8	1,004.7	2.0	1.8	175.47	30.7	-116.5	167.6	164.0	3.63	46.191		
1,100.0	1,096.5	1,108.2	1,106.7	2.3	2.1	-177.93	34.8	-108.9	176.2	172.2	4.00	44.088		
1,200.0	1,195.4	1,210.8	1,208.8	2.6	2.3	-172.57	38.2	-99.6	184.8	180.5	4.37	42.281		
1,300.0	1,294.1	1,313.6	1,311.0	2.9	2.5	-168.19	41.0	-88.6	193.3	188.6	4.76	40.648		
1,400.0	1,392.5	1,416.6	1,413.2	3.2	2.8	-164.59	43.0	-75.9	201.6	196.4	5.15	39.116		
1,500.0	1,490.6	1,519.8	1,515.4	3.6	3.0	-161.63	44.4	-61.4	209.6	204.0	5.57	37.643		
1,600.0	1,588.4	1,623.2	1,617.5	4.0	3.3	-159.20	45.0	-45.2	217.2	211.2	6.00	36.208		
1,700.0	1,686.0	1,726.8	1,719.5	4.4	3.7	-158.31	45.0	-27.3	224.0	217.5	6.45	34.729		
1,800.0	1,783.6	1,828.5	1,819.4	4.8	4.0	-157.55	44.3	-8.2	229.3	222.4	6.92	33.151		
1,900.0	1,881.1	1,928.3	1,917.4	5.2	4.3	-156.82	43.6	10.7	234.5	227.1	7.40	31.696		
2,000.0	1,978.7	2,028.1	2,015.4	5.6	4.7	-156.12	42.9	29.5	239.7	231.8	7.89	30.372		
2,100.0	2,076.3	2,127.9	2,113.4	6.0	5.0	-155.45	42.2	48.4	245.0	236.6	8.40	29.164		
2,200.0	2,173.8	2,227.7	2,211.4	6.4	5.4	-154.81	41.5	67.3	250.3	241.4	8.92	28.060		
2,300.0	2,271.4	2,327.6	2,309.5	6.8	5.7	-154.20	40.8	86.2	255.6	246.1	9.45	27.050		
2,400.0	2,369.0	2,427.4	2,407.5	7.2	6.1	-153.61	40.1	105.1	260.9	250.9	9.99	26.123		
2,500.0	2,466.5	2,527.2	2,505.5	7.7	6.4	-153.05	39.4	124.0	266.3	255.8	10.54	25.271		
2,600.0	2,564.1	2,627.0	2,603.5	8.1	6.8	-152.51	38.6	142.8	271.7	260.6	11.10	24.486		
2,700.0	2,661.7	2,726.9	2,701.5	8.5	7.2	-151.99	37.9	161.7	277.1	265.5	11.66	23.762		
2,800.0	2,759.2	2,826.7	2,799.5	8.9	7.5	-151.49	37.2	180.6	282.6	270.3	12.24	23.092		
2,900.0	2,856.8	2,926.5	2,897.6	9.3	7.9	-151.01	36.5	199.5	288.0	275.2	12.82	22.472		
3,000.0	2,954.4	3,026.3	2,995.6	9.8	8.2	-150.54	35.8	218.4	293.5	280.1	13.40	21.896		
3,100.0	3,052.0	3,126.1	3,093.6	10.2	8.6	-150.10	35.1	237.3	299.0	285.0	14.00	21.361		
3,200.0	3,149.5	3,226.0	3,191.6	10.6	9.0	-149.66	34.4	256.1	304.5	289.9	14.60	20.861		
3,300.0	3,247.1	3,325.8	3,289.6	11.0	9.4	-149.25	33.7	275.0	310.1	294.9	15.20	20.396		
3,400.0	3,344.7	3,425.6	3,387.6	11.4	9.7	-148.85	33.0	293.9	315.6	299.8	15.81	19.960		
3,500.0	3,442.2	3,525.4	3,485.7	11.9	10.1	-148.46	32.3	312.8	321.2	304.7	16.43	19.552		
3,600.0	3,539.8	3,625.3	3,583.7	12.3	10.5	-148.09	31.6	331.7	326.8	309.7	17.05	19.170		
3,700.0	3,637.4	3,725.1	3,681.7	12.7	10.8	-147.73	30.9	350.6	332.3	314.7	17.67	18.811		
3,800.0	3,734.9	3,824.9	3,779.7	13.1	11.2	-147.38	30.1	369.4	338.0	319.7	18.29	18.472		
3,900.0	3,832.5	3,924.7	3,877.7	13.6	11.6	-147.04	29.4	388.3	343.6	324.6	18.93	18.154		
4,000.0	3,930.1	4,024.5	3,975.8	14.0	12.0	-146.71	28.7	407.2	349.2	329.6	19.56	17.853		
4,100.0	4,027.7	4,124.4	4,073.8	14.4	12.3	-146.40	28.0	426.1	354.8	334.6	20.20	17.569		
4,200.0	4,125.2	4,224.2	4,171.8	14.8	12.7	-146.09	27.3	445.0	360.5	339.6	20.84	17.301		
4,300.0	4,222.8	4,324.0	4,269.8	15.3	13.1	-145.79	26.6	463.9	366.1	344.7	21.48	17.046		
4,400.0	4,320.4	4,423.8	4,367.8	15.7	13.5	-145.51	25.9	482.7	371.8	349.7	22.13	16.805		
4,500.0	4,417.9	4,523.7	4,465.8	16.1	13.8	-145.23	25.2	501.6	377.5	354.7	22.77	16.576		
4,600.0	4,515.5	4,623.5	4,563.9	16.5	14.2	-144.96	24.5	520.5	383.2	359.8	23.42	16.358		
4,700.0	4,613.1	4,723.3	4,661.9	17.0	14.6	-144.69	23.8	539.4	388.9	364.8	24.08	16.151		
4,800.0	4,710.6	4,823.1	4,759.9	17.4	14.9	-144.44	23.1	558.3	394.6	369.8	24.73	15.954		
4,900.0	4,808.2	4,922.9	4,857.9	17.8	15.3	-144.19	22.4	577.2	400.3	374.9	25.39	15.766		
5,000.0	4,905.8	5,022.8	4,955.9	18.3	15.7	-143.95	21.6	596.0	406.0	380.0	26.05	15.587		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,122.6	5,053.9	18.7	16.1	-143.71	20.9	614.9	411.7	385.0	26.71	15.415		
5,200.0	5,100.9	5,222.4	5,152.0	19.1	16.4	-143.49	20.2	633.8	417.5	390.1	27.37	15.252		
5,300.0	5,198.5	5,322.2	5,250.0	19.5	16.8	-143.26	19.5	652.7	423.2	395.2	28.04	15.095		
5,400.0	5,296.1	5,422.0	5,348.0	20.0	17.2	-143.05	18.8	671.6	428.9	400.2	28.70	14.945		
5,500.0	5,393.6	5,521.9	5,446.0	20.4	17.6	-142.84	18.1	690.5	434.7	405.3	29.37	14.801		
5,600.0	5,491.2	5,621.7	5,544.0	20.8	18.0	-142.63	17.4	709.3	440.5	410.4	30.04	14.663		
5,700.0	5,588.8	5,721.5	5,642.0	21.2	18.3	-142.43	16.7	728.2	446.2	415.5	30.71	14.531		
5,800.0	5,686.3	5,821.3	5,740.1	21.7	18.7	-142.24	16.0	747.1	452.0	420.6	31.38	14.404		
5,900.0	5,783.9	5,921.2	5,838.1	22.1	19.1	-142.05	15.3	766.0	457.8	425.7	32.05	14.281		
6,000.0	5,881.5	6,021.0	5,936.1	22.5	19.5	-141.86	14.6	784.9	463.5	430.8	32.73	14.164		
6,100.0	5,979.0	6,120.8	6,034.1	22.9	19.8	-141.68	13.9	803.7	469.3	435.9	33.40	14.051		
6,200.0	6,076.6	6,220.6	6,132.1	23.4	20.2	-141.51	13.1	822.6	475.1	441.0	34.08	13.942		
6,300.0	6,174.2	6,320.4	6,230.1	23.8	20.6	-141.34	12.4	841.5	480.9	446.1	34.76	13.837		
6,400.0	6,271.7	6,420.3	6,328.2	24.2	21.0	-141.17	11.7	860.4	486.7	451.3	35.43	13.735		
6,500.0	6,369.3	6,520.1	6,426.2	24.7	21.3	-141.01	11.0	879.3	492.5	456.4	36.11	13.637		
6,600.0	6,466.9	6,619.9	6,524.2	25.1	21.7	-140.85	10.3	898.2	498.3	461.5	36.79	13.543		
6,700.0	6,564.5	6,719.7	6,622.2	25.5	22.1	-140.69	9.6	917.0	504.1	466.6	37.47	13.452		
6,800.0	6,662.0	6,819.6	6,720.2	25.9	22.5	-140.54	8.9	935.9	509.9	471.7	38.15	13.364		
6,900.0	6,759.6	6,919.4	6,818.3	26.4	22.8	-138.80	8.2	954.8	515.7	476.9	38.84	13.278		
7,000.0	6,857.3	7,019.3	6,916.3	26.7	23.2	-103.28	7.5	973.7	515.2	475.8	39.41	13.072		
7,100.0	6,953.8	7,117.9	7,013.2	27.0	23.6	-80.29	6.8	992.4	503.3	463.6	39.72	12.673		
7,200.0	7,047.4	7,315.2	7,204.3	27.3	24.3	-76.16	-21.5	1,029.2	470.5	432.3	38.21	12.314		
7,300.0	7,136.1	7,444.0	7,322.0	27.5	24.8	-84.09	-68.2	1,051.9	417.9	383.6	34.37	12.160		
7,400.0	7,218.3	7,515.8	7,383.5	27.6	25.1	-95.02	-103.4	1,063.7	362.4	332.2	30.25	11.981		
7,500.0	7,292.4	7,550.4	7,411.7	27.7	25.3	-102.20	-122.5	1,069.1	319.0	292.0	27.02	11.806		
7,600.0	7,356.9	7,561.5	7,420.6	27.9	25.3	-103.92	-128.9	1,070.9	300.8	274.1	26.71	11.261		
7,607.6	7,361.3	7,561.6	7,420.7	27.9	25.3	-103.84	-128.9	1,070.9	300.7	273.9	26.86	11.196		
7,700.0	7,410.5	7,557.4	7,417.3	28.1	25.3	-100.76	-126.5	1,070.2	314.4	284.6	29.86	10.528		
7,800.0	7,452.2	7,543.3	7,406.0	28.3	25.2	-93.65	-118.4	1,068.0	355.7	321.9	33.79	10.525 SF		
7,900.0	7,481.2	7,522.1	7,388.7	28.5	25.1	-83.79	-106.7	1,064.7	414.6	377.7	36.85	11.251		
8,000.0	7,497.0	7,500.0	7,370.2	28.9	25.0	-73.42	-95.1	1,061.1	482.5	443.3	39.23	12.299		
8,100.0	7,500.0	7,466.7	7,341.8	29.2	24.9	-64.89	-78.6	1,055.7	554.0	513.4	40.63	13.635		
8,200.0	7,500.0	7,450.0	7,327.2	29.7	24.8	-63.10	-70.9	1,052.9	630.4	588.1	42.27	14.912		
8,300.0	7,500.0	7,416.7	7,297.8	30.3	24.7	-59.72	-56.5	1,047.2	710.8	668.0	42.87	16.582		
8,400.0	7,500.0	7,400.0	7,282.7	31.0	24.7	-58.12	-49.8	1,044.3	794.7	750.9	43.76	18.162		
8,500.0	7,500.0	7,378.5	7,263.2	31.7	24.6	-56.16	-41.7	1,040.5	881.1	836.8	44.28	19.897		
8,600.0	7,500.0	7,350.0	7,236.9	32.5	24.5	-53.71	-31.9	1,035.5	969.7	925.2	44.51	21.787		
8,700.0	7,500.0	7,350.0	7,236.9	33.4	24.5	-53.71	-31.9	1,035.5	1,059.4	1,014.2	45.28	23.398		
8,800.0	7,500.0	7,350.0	7,236.9	34.4	24.5	-53.71	-31.9	1,035.5	1,150.9	1,105.0	45.90	25.075		
8,900.0	7,500.0	7,324.4	7,213.0	35.4	24.4	-51.67	-24.1	1,030.9	1,243.0	1,197.0	45.95	27.051		
9,000.0	7,500.0	7,300.0	7,189.9	36.5	24.3	-49.84	-17.4	1,026.4	1,336.4	1,290.4	46.00	29.050		
9,100.0	7,500.0	7,300.0	7,189.9	37.6	24.3	-49.84	-17.4	1,026.4	1,430.1	1,383.7	46.42	30.806		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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				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	-89.67	0.7	-120.0	120.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.67	0.7	-120.0	120.0	119.7	0.30	404.544		
200.0	200.0	200.0	200.0	0.3	0.3	-89.67	0.7	-120.0	120.0	119.4	0.65	185.872		
201.0	201.0	201.0	201.0	0.3	0.3	90.33	0.7	-120.0	120.0	119.4	0.65	184.888		
300.0	300.0	300.0	300.0	0.5	0.5	91.17	0.7	-120.0	120.1	119.1	1.00	120.232		
400.0	399.8	399.7	399.7	0.7	0.7	93.80	1.0	-120.0	120.3	118.9	1.37	87.947		
500.0	499.6	498.9	498.9	0.9	0.8	112.31	3.6	-120.0	122.2	120.4	1.75	70.009		
600.0	599.3	597.6	597.4	1.1	1.0	130.21	8.7	-120.0	127.0	124.9	2.13	59.725		
700.0	699.0	695.5	695.0	1.3	1.2	146.27	16.3	-120.0	135.3	132.8	2.51	53.904		
800.0	798.6	797.8	796.9	1.6	1.5	160.02	25.5	-119.0	145.9	143.0	2.90	50.393		
900.0	898.0	902.2	901.0	1.8	1.7	170.98	33.3	-114.7	155.5	152.3	3.28	47.458		
1,000.0	997.3	1,007.3	1,005.5	2.0	1.9	179.77	39.4	-106.9	163.8	160.1	3.66	44.744		
1,100.0	1,096.5	1,112.8	1,110.4	2.3	2.1	-173.06	43.8	-95.7	170.3	166.3	4.05	42.048		
1,200.0	1,195.4	1,218.7	1,215.2	2.6	2.4	-167.08	46.3	-80.9	175.0	170.5	4.46	39.265		
1,300.0	1,294.1	1,324.8	1,319.7	2.9	2.7	-161.96	47.1	-62.7	177.7	172.8	4.89	36.353		
1,400.0	1,392.5	1,429.3	1,422.0	3.2	3.0	-157.53	46.1	-41.6	178.5	173.1	5.35	33.346		
1,500.0	1,490.6	1,529.2	1,519.6	3.6	3.4	-153.88	44.7	-20.4	179.7	173.9	5.85	30.749		
1,600.0	1,588.4	1,629.0	1,617.2	4.0	3.7	-150.93	43.3	0.7	182.3	176.0	6.37	28.640		
1,700.0	1,686.0	1,728.9	1,714.8	4.4	4.1	-149.67	41.9	21.8	185.8	178.9	6.91	26.884		
1,800.0	1,783.6	1,828.8	1,812.4	4.8	4.5	-148.64	40.5	42.9	189.3	181.8	7.48	25.314		
1,900.0	1,881.1	1,928.7	1,910.1	5.2	4.8	-147.64	39.1	64.0	192.8	184.8	8.06	23.910		
2,000.0	1,978.7	2,028.5	2,007.7	5.6	5.2	-146.68	37.7	85.1	196.4	187.8	8.67	22.651		
2,100.0	2,076.3	2,128.4	2,105.3	6.0	5.6	-145.75	36.3	106.2	200.1	190.8	9.30	21.522		
2,200.0	2,173.8	2,228.3	2,202.9	6.4	6.0	-144.86	34.9	127.4	203.8	193.9	9.94	20.506		
2,300.0	2,271.4	2,328.2	2,300.5	6.8	6.4	-144.00	33.5	148.5	207.6	197.0	10.60	19.590		
2,400.0	2,369.0	2,428.1	2,398.1	7.2	6.8	-143.17	32.1	169.6	211.4	200.1	11.27	18.762		
2,500.0	2,466.5	2,528.0	2,495.7	7.7	7.2	-142.37	30.7	190.7	215.2	203.3	11.95	18.011		
2,600.0	2,564.1	2,627.8	2,593.4	8.1	7.6	-141.60	29.3	211.8	219.1	206.5	12.64	17.329		
2,700.0	2,661.7	2,727.7	2,691.0	8.5	8.0	-140.85	27.9	232.9	223.0	209.7	13.35	16.708		
2,800.0	2,759.2	2,827.6	2,788.6	8.9	8.4	-140.13	26.5	254.0	227.0	212.9	14.06	16.140		
2,900.0	2,856.8	2,927.5	2,886.2	9.3	8.8	-139.44	25.1	275.2	231.0	216.2	14.79	15.621		
3,000.0	2,954.4	3,027.4	2,983.8	9.8	9.2	-138.77	23.7	296.3	235.0	219.5	15.52	15.144		
3,100.0	3,052.0	3,127.2	3,081.4	10.2	9.7	-138.12	22.3	317.4	239.1	222.8	16.26	14.705		
3,200.0	3,149.5	3,227.1	3,179.0	10.6	10.1	-137.49	20.9	338.5	243.2	226.2	17.01	14.300		
3,300.0	3,247.1	3,327.0	3,276.7	11.0	10.5	-136.89	19.5	359.6	247.3	229.5	17.76	13.925		
3,400.0	3,344.7	3,426.9	3,374.3	11.4	10.9	-136.30	18.1	380.7	251.5	232.9	18.52	13.579		
3,500.0	3,442.2	3,526.8	3,471.9	11.9	11.3	-135.74	16.7	401.8	255.6	236.3	19.28	13.257		
3,600.0	3,539.8	3,626.7	3,569.5	12.3	11.7	-135.19	15.3	423.0	259.8	239.8	20.05	12.957		
3,700.0	3,637.4	3,726.5	3,667.1	12.7	12.1	-134.66	13.9	444.1	264.0	243.2	20.83	12.678		
3,800.0	3,734.9	3,826.4	3,764.7	13.1	12.5	-134.14	12.5	465.2	268.3	246.7	21.60	12.418		
3,900.0	3,832.5	3,926.3	3,862.3	13.6	12.9	-133.65	11.1	486.3	272.5	250.2	22.39	12.175		
4,000.0	3,930.1	4,026.2	3,960.0	14.0	13.3	-133.16	9.7	507.4	276.8	253.6	23.17	11.947		
4,100.0	4,027.7	4,126.1	4,057.6	14.4	13.8	-132.70	8.3	528.5	281.1	257.2	23.96	11.733		
4,200.0	4,125.2	4,225.9	4,155.2	14.8	14.2	-132.24	6.9	549.6	285.4	260.7	24.75	11.532		
4,300.0	4,222.8	4,325.8	4,252.8	15.3	14.6	-131.80	5.5	570.8	289.8	264.2	25.55	11.343		
4,400.0	4,320.4	4,425.7	4,350.4	15.7	15.0	-131.37	4.1	591.9	294.1	267.8	26.34	11.165		
4,500.0	4,417.9	4,525.6	4,448.0	16.1	15.4	-130.96	2.7	613.0	298.5	271.4	27.15	10.996		
4,600.0	4,515.5	4,625.5	4,545.6	16.5	15.8	-130.56	1.3	634.1	302.9	274.9	27.95	10.837		
4,700.0	4,613.1	4,725.3	4,643.3	17.0	16.2	-130.17	-0.2	655.2	307.3	278.5	28.75	10.687		
4,800.0	4,710.6	4,825.2	4,740.9	17.4	16.6	-129.79	-1.6	676.3	311.7	282.1	29.56	10.544		
4,900.0	4,808.2	4,925.1	4,838.5	17.8	17.1	-129.42	-3.0	697.4	316.1	285.7	30.37	10.409		
5,000.0	4,905.8	5,025.0	4,936.1	18.3	17.5	-129.06	-4.4	718.6	320.6	289.4	31.18	10.281		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,124.9	5,033.7	18.7	17.9	-128.71	-5.8	739.7	325.0	293.0	31.99	10.159		
5,200.0	5,100.9	5,224.8	5,131.3	19.1	18.3	-128.37	-7.2	760.8	329.5	296.7	32.81	10.043		
5,300.0	5,198.5	5,324.6	5,228.9	19.5	18.7	-128.04	-8.6	781.9	333.9	300.3	33.62	9.933		
5,400.0	5,296.1	5,424.5	5,326.5	20.0	19.1	-127.71	-10.0	803.0	338.4	304.0	34.44	9.828		
5,500.0	5,393.6	5,524.4	5,424.2	20.4	19.5	-127.40	-11.4	824.1	342.9	307.7	35.25	9.727		
5,600.0	5,491.2	5,624.3	5,521.8	20.8	20.0	-127.09	-12.8	845.2	347.4	311.4	36.07	9.631		
5,700.0	5,588.8	5,724.2	5,619.4	21.2	20.4	-126.80	-14.2	866.4	351.9	315.0	36.89	9.540		
5,800.0	5,686.3	5,824.0	5,717.0	21.7	20.8	-126.51	-15.6	887.5	356.5	318.8	37.71	9.452		
5,900.0	5,783.9	5,923.9	5,814.6	22.1	21.2	-126.22	-17.0	908.6	361.0	322.5	38.53	9.368		
6,000.0	5,881.5	6,023.8	5,912.2	22.5	21.6	-125.95	-18.4	929.7	365.5	326.2	39.36	9.288		
6,100.0	5,979.0	6,123.7	6,009.8	22.9	22.0	-125.68	-19.8	950.8	370.1	329.9	40.18	9.211		
6,200.0	6,076.6	6,223.6	6,107.5	23.4	22.4	-125.42	-21.2	971.9	374.6	333.6	41.00	9.137		
6,300.0	6,174.2	6,323.5	6,205.1	23.8	22.9	-125.16	-22.6	993.0	379.2	337.4	41.83	9.066		
6,400.0	6,271.7	6,423.3	6,302.7	24.2	23.3	-124.91	-24.0	1,014.2	383.8	341.1	42.65	8.998		
6,500.0	6,369.3	6,523.2	6,400.3	24.7	23.7	-124.66	-25.4	1,035.3	388.4	344.9	43.48	8.932		
6,600.0	6,466.9	6,623.1	6,497.9	25.1	24.1	-124.43	-26.8	1,056.4	393.0	348.6	44.31	8.869		
6,700.0	6,564.5	6,723.0	6,595.5	25.5	24.5	-124.19	-28.2	1,077.5	397.5	352.4	45.13	8.808		
6,800.0	6,662.0	6,822.9	6,693.1	25.9	24.9	-123.97	-29.6	1,098.6	402.1	356.2	45.96	8.750		
6,900.0	6,759.6	6,922.7	6,790.8	26.4	25.3	-123.77	-31.0	1,119.7	406.7	359.9	46.79	8.693		
7,000.0	6,857.3	7,022.6	6,888.4	26.7	25.8	-123.58	-32.4	1,140.9	411.3	363.6	47.62	8.638		
7,100.0	6,955.8	7,122.5	6,984.7	27.0	26.2	-123.41	-33.8	1,162.1	415.9	367.4	48.45	8.584		
7,200.0	7,054.3	7,222.4	7,081.0	27.3	26.6	-123.25	-35.2	1,183.5	420.5	371.2	49.28	8.531		
7,300.0	7,152.8	7,322.3	7,177.3	27.6	27.0	-123.10	-36.6	1,204.0	425.1	375.0	50.11	8.479		
7,400.0	7,251.3	7,422.2	7,273.6	27.9	27.4	-122.96	-38.0	1,224.4	429.7	378.8	50.94	8.428		
7,500.0	7,349.8	7,522.1	7,369.9	28.2	27.8	-122.83	-39.4	1,244.8	434.3	382.6	51.77	8.378		
7,596.5	7,354.8	7,545.6	7,380.0	27.9	28.0	-105.28	-140.7	1,247.9	119.3	92.3	26.99	4.420 CC		
7,600.0	7,356.9	7,545.9	7,380.3	27.9	28.0	-105.39	-140.9	1,248.0	119.4	92.1	27.25	4.379 ES		
7,700.0	7,410.5	7,550.0	7,383.7	28.1	28.0	-102.49	-143.0	1,248.7	157.9	117.8	40.10	3.938 SF		
7,800.0	7,452.2	7,539.3	7,374.8	28.3	28.0	-86.79	-137.4	1,246.8	235.2	190.0	45.21	5.204		
7,900.0	7,481.2	7,522.4	7,360.5	28.5	27.9	-66.91	-128.8	1,243.6	322.9	275.8	47.12	6.853		
8,000.0	7,497.0	7,500.0	7,341.4	28.9	27.8	-50.34	-118.0	1,239.4	411.8	363.6	48.20	8.543		
8,100.0	7,500.0	7,473.4	7,318.2	29.2	27.7	-41.57	-106.0	1,234.3	499.1	450.1	49.02	10.181		
8,200.0	7,500.0	7,450.0	7,297.5	29.7	27.6	-39.30	-96.1	1,229.8	587.6	537.8	49.71	11.820		
8,300.0	7,500.0	7,428.1	7,277.8	30.3	27.5	-37.42	-87.5	1,225.4	677.9	627.7	50.19	13.507		
8,400.0	7,500.0	7,400.0	7,252.2	31.0	27.3	-35.32	-77.4	1,219.8	769.7	719.4	50.31	15.300		
8,500.0	7,500.0	7,400.0	7,252.2	31.7	27.3	-35.32	-77.4	1,219.8	862.5	811.4	51.13	16.870		
8,600.0	7,500.0	7,379.1	7,232.9	32.5	27.3	-33.94	-70.5	1,215.6	956.2	905.0	51.25	18.658		
8,700.0	7,500.0	7,366.2	7,221.0	33.4	27.2	-33.16	-66.6	1,213.0	1,050.7	999.2	51.51	20.400		
8,800.0	7,500.0	7,350.0	7,205.8	34.4	27.1	-32.25	-62.0	1,209.7	1,145.9	1,094.3	51.64	22.190		
8,900.0	7,500.0	7,350.0	7,205.8	35.4	27.1	-32.25	-62.0	1,209.7	1,241.5	1,189.5	52.04	23.859		
9,000.0	7,500.0	7,350.0	7,205.8	36.5	27.1	-32.25	-62.0	1,209.7	1,337.8	1,285.5	52.37	25.546		
9,100.0	7,500.0	7,326.4	7,183.5	37.6	27.0	-31.04	-55.8	1,204.8	1,434.1	1,381.8	52.29	27.427		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-89.66	0.6	-110.0	110.0						
100.0	100.0	100.0	100.0	0.1	0.1	-89.66	0.6	-110.0	110.0	109.7		0.30	370.596		
200.0	200.0	200.0	200.0	0.3	0.3	-89.66	0.6	-110.0	110.0	109.3		0.65	170.274	CC	
203.1	203.1	203.1	203.1	0.3	0.3	90.34	0.6	-110.0	110.0	109.3		0.66	167.473		
300.0	300.0	300.0	300.0	0.5	0.5	91.25	0.6	-110.0	110.0	109.0		1.00	110.146	ES	
400.0	399.8	399.5	399.5	0.7	0.7	94.84	2.4	-110.0	110.4	109.0		1.37	80.549		
500.0	499.6	498.3	498.1	0.9	0.9	114.97	7.5	-110.0	112.9	111.1		1.76	64.240		
600.0	599.3	596.0	595.5	1.1	1.1	134.66	15.9	-110.0	119.3	117.2		2.16	55.323		
700.0	699.0	698.8	697.7	1.3	1.3	152.19	26.1	-108.3	128.1	125.5		2.56	50.025		
800.0	798.6	802.3	800.7	1.6	1.5	166.50	35.1	-103.2	136.3	133.3		2.96	46.070		
900.0	898.0	906.2	904.0	1.8	1.8	178.24	42.9	-94.5	143.7	140.3		3.36	42.748		
1,000.0	997.3	1,010.4	1,007.3	2.0	2.0	-171.93	49.4	-82.3	150.0	146.2		3.78	39.670		
1,100.0	1,096.5	1,114.8	1,110.3	2.3	2.3	-163.47	54.7	-66.4	155.0	150.8		4.23	36.632		
1,200.0	1,195.4	1,219.2	1,212.8	2.6	2.7	-155.95	58.7	-47.0	158.8	154.1		4.73	33.539		
1,300.0	1,294.1	1,323.5	1,314.5	2.9	3.1	-149.07	61.3	-24.2	161.3	156.0		5.31	30.375		
1,400.0	1,392.5	1,427.0	1,414.7	3.2	3.5	-142.58	62.6	1.9	162.6	156.6		5.97	27.220		
1,500.0	1,490.6	1,526.4	1,510.5	3.6	3.9	-136.93	63.5	28.2	164.5	157.7		6.70	24.538		
1,600.0	1,588.4	1,626.0	1,606.5	4.0	4.4	-132.18	64.3	54.5	167.7	160.2		7.49	22.395		
1,700.0	1,686.0	1,725.5	1,702.5	4.4	4.8	-129.30	65.1	80.9	171.9	163.6		8.32	20.666		
1,800.0	1,783.6	1,825.1	1,798.6	4.8	5.3	-126.74	65.9	107.2	176.4	167.2		9.18	19.215		
1,900.0	1,881.1	1,924.7	1,894.6	5.2	5.8	-124.31	66.7	133.6	181.2	171.2		10.07	17.998		
2,000.0	1,978.7	2,024.3	1,990.7	5.6	6.3	-122.01	67.6	159.9	186.4	175.4		10.98	16.974		
2,100.0	2,076.3	2,123.9	2,086.7	6.0	6.8	-119.84	68.4	186.3	191.9	179.9		11.91	16.111		
2,200.0	2,173.8	2,223.5	2,182.7	6.4	7.2	-117.79	69.2	212.6	197.6	184.7		12.84	15.381		
2,300.0	2,271.4	2,323.1	2,278.8	6.8	7.7	-115.86	70.0	239.0	203.5	189.7		13.79	14.760		
2,400.0	2,369.0	2,422.7	2,374.8	7.2	8.2	-114.04	70.8	265.3	209.7	194.9		14.73	14.230		
2,500.0	2,466.5	2,522.3	2,470.9	7.7	8.7	-112.32	71.6	291.7	216.0	200.4		15.68	13.776		
2,600.0	2,564.1	2,621.9	2,566.9	8.1	9.2	-110.70	72.5	318.0	222.6	206.0		16.63	13.384		
2,700.0	2,661.7	2,721.5	2,663.0	8.5	9.7	-109.18	73.3	344.4	229.3	211.7		17.58	13.046		
2,800.0	2,759.2	2,821.1	2,759.0	8.9	10.2	-107.74	74.1	370.7	236.2	217.6		18.52	12.753		
2,900.0	2,856.8	2,920.7	2,855.0	9.3	10.7	-106.39	74.9	397.1	243.2	223.7		19.46	12.497		
3,000.0	2,954.4	3,020.3	2,951.1	9.8	11.2	-105.11	75.7	423.4	250.3	229.9		20.39	12.274		
3,100.0	3,052.0	3,119.9	3,047.1	10.2	11.7	-103.90	76.6	449.8	257.6	236.2		21.32	12.078		
3,200.0	3,149.5	3,219.4	3,143.2	10.6	12.2	-102.76	77.4	476.1	264.9	242.7		22.25	11.906		
3,300.0	3,247.1	3,319.0	3,239.2	11.0	12.7	-101.68	78.2	502.5	272.4	249.2		23.17	11.754		
3,400.0	3,344.7	3,418.6	3,335.2	11.4	13.2	-100.66	79.0	528.8	279.9	255.8		24.09	11.619		
3,500.0	3,442.2	3,518.2	3,431.3	11.9	13.7	-99.69	79.8	555.2	287.6	262.6		25.00	11.500		
3,600.0	3,539.8	3,617.8	3,527.3	12.3	14.2	-98.77	80.6	581.5	295.3	269.4		25.91	11.395		
3,700.0	3,637.4	3,717.4	3,623.4	12.7	14.7	-97.90	81.5	607.9	303.1	276.2		26.82	11.301		
3,800.0	3,734.9	3,817.0	3,719.4	13.1	15.2	-97.07	82.3	634.2	310.9	283.2		27.72	11.217		
3,900.0	3,832.5	3,916.6	3,815.4	13.6	15.7	-96.29	83.1	660.6	318.8	290.2		28.61	11.142		
4,000.0	3,930.1	4,016.2	3,911.5	14.0	16.2	-95.54	83.9	686.9	326.8	297.3		29.51	11.075		
4,100.0	4,027.7	4,115.8	4,007.5	14.4	16.7	-94.83	84.7	713.3	334.8	304.4		30.40	11.015		
4,200.0	4,125.2	4,215.4	4,103.6	14.8	17.2	-94.15	85.6	739.6	342.9	311.6		31.28	10.961		
4,300.0	4,222.8	4,315.0	4,199.6	15.3	17.7	-93.50	86.4	766.0	351.0	318.8		32.16	10.913		
4,400.0	4,320.4	4,414.6	4,295.6	15.7	18.2	-92.88	87.2	792.3	359.2	326.1		33.04	10.870		
4,500.0	4,417.9	4,514.2	4,391.7	16.1	18.8	-92.29	88.0	818.7	367.4	333.4		33.92	10.831		
4,600.0	4,515.5	4,613.7	4,487.7	16.5	19.3	-91.73	88.8	845.0	375.6	340.8		34.79	10.796		
4,700.0	4,613.1	4,713.3	4,583.8	17.0	19.8	-91.19	89.7	871.4	383.9	348.2		35.66	10.764		
4,800.0	4,710.6	4,812.9	4,679.8	17.4	20.3	-90.67	90.5	897.7	392.2	355.6		36.53	10.736		
4,900.0	4,808.2	4,912.5	4,775.8	17.8	20.8	-90.17	91.3	924.1	400.5	363.1		37.39	10.710		
5,000.0	4,905.8	5,012.1	4,871.9	18.3	21.3	-89.70	92.1	950.4	408.9	370.6		38.26	10.687		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset				Semi Major Axis			Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5,100.0	5,003.3	5,111.7	4,967.9	18.7	21.8	-89.24	92.9	976.8	417.2	378.1	39.12	10.667			
5,200.0	5,100.9	5,211.3	5,064.0	19.1	22.3	-88.80	93.7	1,003.1	425.7	385.7	39.97	10.648			
5,300.0	5,198.5	5,310.9	5,160.0	19.5	22.8	-88.38	94.6	1,029.5	434.1	393.3	40.83	10.632			
5,400.0	5,296.1	5,410.5	5,256.1	20.0	23.3	-87.97	95.4	1,055.8	442.6	400.9	41.69	10.617			
5,500.0	5,393.6	5,510.1	5,352.1	20.4	23.8	-87.58	96.2	1,082.2	451.0	408.5	42.54	10.603			
5,600.0	5,491.2	5,609.7	5,448.1	20.8	24.3	-87.20	97.0	1,108.5	459.5	416.2	43.39	10.591			
5,700.0	5,588.8	5,709.3	5,544.2	21.2	24.8	-86.84	97.8	1,134.9	468.1	423.8	44.24	10.580			
5,800.0	5,686.3	5,808.9	5,640.2	21.7	25.3	-86.49	98.7	1,161.2	476.6	431.5	45.09	10.571			
5,900.0	5,783.9	5,908.5	5,736.3	22.1	25.8	-86.15	99.5	1,187.6	485.2	439.2	45.93	10.562			
6,000.0	5,881.5	6,008.1	5,832.3	22.5	26.3	-85.83	100.3	1,213.9	493.7	447.0	46.78	10.555			
6,100.0	5,979.0	6,107.6	5,928.3	22.9	26.8	-85.51	101.1	1,240.3	502.3	454.7	47.62	10.548			
6,200.0	6,076.6	6,207.2	6,024.4	23.4	27.3	-85.21	101.9	1,266.6	510.9	462.5	48.46	10.543			
6,300.0	6,174.2	6,306.8	6,120.4	23.8	27.8	-84.92	102.7	1,293.0	519.5	470.2	49.30	10.538			
6,400.0	6,271.7	6,406.4	6,216.5	24.2	28.3	-84.63	103.6	1,319.3	528.2	478.0	50.14	10.533			
6,500.0	6,369.3	6,506.0	6,312.5	24.7	28.9	-84.36	104.4	1,345.7	536.8	485.8	50.98	10.529			
6,600.0	6,466.9	6,605.6	6,408.5	25.1	29.4	-84.09	105.2	1,372.0	545.5	493.6	51.82	10.526			
6,700.0	6,564.5	6,705.2	6,504.6	25.5	29.9	-83.83	106.0	1,398.4	554.1	501.5	52.66	10.523			
6,800.0	6,662.0	6,804.8	6,600.6	25.9	30.4	-83.58	106.8	1,424.7	562.8	509.3	53.49	10.521			
6,900.0	6,759.6	6,904.4	6,696.7	26.4	30.9	-81.78	107.7	1,451.1	571.5	517.1	54.33	10.519			
7,000.0	6,857.3	7,168.9	6,948.4	26.7	32.2	-42.49	74.1	1,520.2	564.0	509.9	54.15	10.416			
7,100.0	6,953.8	7,419.6	7,161.2	27.0	33.3	-3.65	-42.0	1,578.5	512.0	463.6	48.38	10.582			
7,200.0	7,047.4	7,539.7	7,246.5	27.3	33.8	29.72	-123.1	1,601.9	440.1	396.4	43.61	10.091			
7,300.0	7,136.1	7,589.1	7,277.5	27.5	34.0	54.30	-160.6	1,610.4	366.7	326.4	40.27	9.106			
7,400.0	7,218.3	7,602.6	7,285.5	27.6	34.1	68.01	-171.2	1,612.6	304.0	267.5	36.48	8.334 SF			
7,500.0	7,292.4	7,596.3	7,281.8	27.7	34.1	72.91	-166.3	1,611.6	264.4	233.5	30.90	8.557			
7,564.9	7,335.4	7,585.7	7,275.4	27.8	34.0	72.48	-157.9	1,609.9	256.6	229.1	27.47	9.341			
7,600.0	7,356.9	7,578.3	7,271.0	27.9	34.0	71.28	-152.3	1,608.6	258.9	232.4	26.50	9.769			
7,700.0	7,410.5	7,550.0	7,253.1	28.1	33.8	64.19	-130.8	1,603.8	287.4	259.1	28.32	10.148			
7,800.0	7,452.2	7,522.5	7,235.1	28.3	33.7	55.16	-110.6	1,598.8	338.8	304.9	33.96	9.976			
7,900.0	7,481.2	7,488.6	7,211.8	28.5	33.6	44.51	-86.8	1,592.4	401.8	362.7	39.10	10.277			
8,000.0	7,497.0	7,450.0	7,184.1	28.9	33.4	34.43	-61.1	1,584.8	469.0	425.9	43.14	10.871			
8,100.0	7,500.0	7,414.3	7,157.2	29.2	33.2	28.00	-38.7	1,577.4	536.7	489.9	46.74	11.482			
8,200.0	7,500.0	7,379.8	7,130.3	29.7	33.1	25.32	-18.5	1,570.0	608.3	558.8	49.49	12.291			
8,300.0	7,500.0	7,350.0	7,106.3	30.3	33.0	23.17	-2.1	1,563.5	684.4	632.7	51.68	13.242			
8,400.0	7,500.0	7,322.8	7,083.8	31.0	32.8	21.32	11.9	1,557.3	764.0	710.6	53.39	14.310			
8,500.0	7,500.0	7,300.0	7,064.6	31.7	32.7	19.85	23.0	1,552.0	846.4	791.6	54.79	15.449			
8,600.0	7,500.0	7,278.1	7,045.8	32.5	32.7	18.51	33.1	1,546.9	931.2	875.3	55.87	16.668			
8,700.0	7,500.0	7,250.0	7,021.4	33.4	32.5	16.90	45.1	1,540.2	1,017.9	961.4	56.51	18.013			
8,800.0	7,500.0	7,250.0	7,021.4	34.4	32.5	16.90	45.1	1,540.2	1,106.1	1,048.3	57.75	19.151			
8,900.0	7,500.0	7,227.0	7,001.0	35.4	32.4	15.66	54.2	1,534.6	1,195.6	1,137.4	58.18	20.549			
9,000.0	7,500.0	7,200.0	6,976.7	36.5	32.3	14.29	64.0	1,527.9	1,286.4	1,228.0	58.41	22.023			
9,100.0	7,500.0	7,200.0	6,976.7	37.6	32.3	14.29	64.0	1,527.9	1,377.8	1,318.6	59.18	23.283			
9,200.0	7,500.0	7,200.0	6,976.7	38.8	32.3	14.29	64.0	1,527.9	1,470.3	1,410.5	59.82	24.581			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.66	0.6	-99.9	99.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.66	0.6	-99.9	99.9	99.6	0.30	336.649		
200.0	200.0	200.0	200.0	0.3	0.3	-89.66	0.6	-99.9	99.9	99.2	0.65	154.676	CC	
200.4	200.4	200.4	200.4	0.3	0.3	90.34	0.6	-99.9	99.9	99.2	0.65	154.369		
300.0	300.0	299.9	299.8	0.5	0.5	92.33	2.3	-99.9	100.0	99.0	1.00	99.767	ES	
400.0	399.8	399.0	398.8	0.7	0.7	98.19	7.5	-99.9	100.9	99.5	1.39	72.631		
500.0	499.6	497.0	496.5	0.9	0.9	120.50	16.0	-99.9	105.1	103.3	1.80	58.378		
600.0	599.3	599.3	598.3	1.1	1.1	141.56	26.1	-98.3	112.1	109.8	2.21	50.592		
700.0	699.0	702.2	700.6	1.3	1.4	159.30	35.1	-93.1	118.9	116.3	2.62	45.369		
800.0	798.6	805.3	803.1	1.6	1.6	174.03	43.0	-84.5	125.3	122.3	3.03	41.374		
900.0	898.0	908.7	905.5	1.8	1.9	-173.64	49.6	-72.3	131.0	127.6	3.45	37.941		
1,000.0	997.3	1,012.1	1,007.5	2.0	2.2	-163.06	55.1	-56.6	135.8	131.9	3.91	34.734		
1,100.0	1,096.5	1,115.4	1,109.0	2.3	2.5	-153.71	59.3	-37.5	139.8	135.4	4.42	31.593		
1,200.0	1,195.4	1,218.6	1,209.6	2.6	2.9	-145.16	62.2	-14.9	142.9	137.8	5.02	28.477		
1,300.0	1,294.1	1,321.5	1,309.2	2.9	3.4	-137.12	63.9	11.0	145.2	139.5	5.71	25.432		
1,400.0	1,392.5	1,422.6	1,406.2	3.2	3.8	-129.49	64.5	39.5	147.2	140.7	6.50	22.638		
1,500.0	1,490.6	1,521.8	1,501.2	3.6	4.3	-122.94	64.9	67.9	150.4	143.1	7.35	20.459		
1,600.0	1,588.4	1,621.2	1,596.4	4.0	4.8	-117.50	65.2	96.5	154.9	146.7	8.25	18.769		
1,700.0	1,686.0	1,720.6	1,691.7	4.4	5.3	-114.09	65.6	125.0	160.2	151.0	9.18	17.449		
1,800.0	1,783.6	1,820.1	1,787.0	4.8	5.9	-111.08	66.0	153.6	165.9	155.8	10.12	16.392		
1,900.0	1,881.1	1,919.6	1,882.3	5.2	6.4	-108.27	66.3	182.1	172.0	161.0	11.07	15.543		
2,000.0	1,978.7	2,019.0	1,977.5	5.6	6.9	-105.67	66.7	210.7	178.6	166.5	12.02	14.859		
2,100.0	2,076.3	2,118.5	2,072.8	6.0	7.4	-103.25	67.1	239.3	185.4	172.5	12.96	14.306		
2,200.0	2,173.8	2,218.0	2,168.1	6.4	8.0	-101.01	67.4	267.8	192.6	178.7	13.90	13.857		
2,300.0	2,271.4	2,317.4	2,263.4	6.8	8.5	-98.93	67.8	296.4	200.1	185.3	14.83	13.490		
2,400.0	2,369.0	2,416.9	2,358.7	7.2	9.0	-97.00	68.2	324.9	207.8	192.0	15.75	13.190		
2,500.0	2,466.5	2,516.4	2,453.9	7.7	9.6	-95.21	68.5	353.5	215.7	199.1	16.66	12.945		
2,600.0	2,564.1	2,615.8	2,549.2	8.1	10.1	-93.55	68.9	382.0	223.8	206.3	17.57	12.743		
2,700.0	2,661.7	2,715.3	2,644.5	8.5	10.6	-92.01	69.3	410.6	232.1	213.7	18.46	12.576		
2,800.0	2,759.2	2,814.8	2,739.8	8.9	11.2	-90.57	69.6	439.1	240.6	221.2	19.34	12.440		
2,900.0	2,856.8	2,914.2	2,835.1	9.3	11.7	-89.23	70.0	467.7	249.2	228.9	20.21	12.328		
3,000.0	2,954.4	3,013.7	2,930.3	9.8	12.3	-87.98	70.4	496.3	257.9	236.8	21.08	12.236		
3,100.0	3,052.0	3,113.2	3,025.6	10.2	12.8	-86.81	70.8	524.8	266.7	244.8	21.93	12.161		
3,200.0	3,149.5	3,212.6	3,120.9	10.6	13.3	-85.72	71.1	553.4	275.6	252.9	22.78	12.100		
3,300.0	3,247.1	3,312.1	3,216.2	11.0	13.9	-84.70	71.5	581.9	284.7	261.0	23.62	12.051		
3,400.0	3,344.7	3,411.6	3,311.4	11.4	14.4	-83.74	71.9	610.5	293.8	269.3	24.46	12.012		
3,500.0	3,442.2	3,511.1	3,406.7	11.9	15.0	-82.83	72.2	639.0	303.0	277.7	25.29	11.982		
3,600.0	3,539.8	3,610.5	3,502.0	12.3	15.5	-81.98	72.6	667.6	312.2	286.1	26.11	11.958		
3,700.0	3,637.4	3,710.0	3,597.3	12.7	16.1	-81.18	73.0	696.1	321.5	294.6	26.93	11.941		
3,800.0	3,734.9	3,809.5	3,692.6	13.1	16.6	-80.43	73.3	724.7	330.9	303.2	27.74	11.929		
3,900.0	3,832.5	3,908.9	3,787.8	13.6	17.1	-79.71	73.7	753.3	340.4	311.8	28.55	11.921		
4,000.0	3,930.1	4,008.4	3,883.1	14.0	17.7	-79.04	74.1	781.8	349.8	320.5	29.35	11.917		
4,100.0	4,027.7	4,107.9	3,978.4	14.4	18.2	-78.40	74.4	810.4	359.4	329.2	30.16	11.917		
4,200.0	4,125.2	4,207.3	4,073.7	14.8	18.8	-77.79	74.8	838.9	368.9	338.0	30.95	11.919		
4,300.0	4,222.8	4,306.8	4,169.0	15.3	19.3	-77.22	75.2	867.5	378.5	346.8	31.75	11.923		
4,400.0	4,320.4	4,406.3	4,264.2	15.7	19.9	-76.67	75.5	896.0	388.2	355.7	32.54	11.930		
4,500.0	4,417.9	4,505.7	4,359.5	16.1	20.4	-76.15	75.9	924.6	397.9	364.5	33.33	11.938		
4,600.0	4,515.5	4,605.2	4,454.8	16.5	21.0	-75.65	76.3	953.1	407.6	373.5	34.12	11.947		
4,700.0	4,613.1	4,704.7	4,550.1	17.0	21.5	-75.18	76.6	981.7	417.3	382.4	34.90	11.958		
4,800.0	4,710.6	4,804.1	4,645.3	17.4	22.0	-74.73	77.0	1,010.3	427.1	391.4	35.68	11.970		
4,900.0	4,808.2	4,903.6	4,740.6	17.8	22.6	-74.30	77.4	1,038.8	436.9	400.4	36.46	11.982		
5,000.0	4,905.8	5,003.1	4,835.9	18.3	23.1	-73.89	77.7	1,067.4	446.7	409.5	37.24	11.996		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft					
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft				
Reference													Semi Major Axis		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)									
5,100.0	5,003.3	5,102.5	4,931.2	18.7	23.7	-73.49	78.1	1,095.9	456.5	418.5	38.01	12.010							
5,200.0	5,100.9	5,202.0	5,026.5	19.1	24.2	-73.11	78.5	1,124.5	466.4	427.6	38.79	12.024							
5,300.0	5,198.5	5,301.5	5,121.7	19.5	24.8	-72.75	78.8	1,153.0	476.3	436.7	39.56	12.039							
5,400.0	5,296.1	5,400.9	5,217.0	20.0	25.3	-72.40	79.2	1,181.6	486.2	445.8	40.33	12.054							
5,500.0	5,393.6	5,500.4	5,312.3	20.4	25.9	-72.07	79.6	1,210.1	496.1	455.0	41.10	12.070							
5,600.0	5,491.2	5,599.9	5,407.6	20.8	26.4	-71.75	79.9	1,238.7	506.0	464.1	41.87	12.085							
5,700.0	5,588.8	5,699.3	5,502.9	21.2	27.0	-71.44	80.3	1,267.3	516.0	473.3	42.64	12.101							
5,800.0	5,686.3	5,798.8	5,598.1	21.7	27.5	-71.14	80.7	1,295.8	525.9	482.5	43.40	12.117							
5,900.0	5,783.9	5,898.3	5,693.4	22.1	28.0	-70.86	81.0	1,324.4	535.9	491.7	44.17	12.133							
6,000.0	5,881.5	5,997.7	5,788.7	22.5	28.6	-70.58	81.4	1,352.9	545.9	500.9	44.93	12.149							
6,100.0	5,979.0	6,097.2	5,884.0	22.9	29.1	-70.32	81.8	1,381.5	555.9	510.2	45.69	12.165							
6,200.0	6,076.6	6,196.7	5,979.3	23.4	29.7	-70.06	82.1	1,410.0	565.9	519.4	46.46	12.181							
6,300.0	6,174.2	6,296.1	6,074.5	23.8	30.2	-69.82	82.5	1,438.6	575.9	528.7	47.22	12.197							
6,400.0	6,271.7	6,395.6	6,169.8	24.2	30.8	-69.58	82.9	1,467.1	585.9	537.9	47.98	12.213							
6,500.0	6,369.3	6,495.1	6,265.1	24.7	31.3	-69.35	83.2	1,495.7	596.0	547.2	48.74	12.228							
6,600.0	6,466.9	6,594.5	6,360.4	25.1	31.9	-69.12	83.6	1,524.3	606.0	556.5	49.49	12.244							
6,700.0	6,564.5	6,694.0	6,455.6	25.5	32.4	-68.91	84.0	1,552.8	616.1	565.8	50.25	12.259							
6,800.0	6,662.0	6,793.5	6,550.9	25.9	33.0	-68.70	84.3	1,581.4	626.1	575.1	51.01	12.275							
6,900.0	6,759.6	6,892.9	6,646.2	26.4	33.5	-66.95	84.7	1,609.9	636.2	584.4	51.77	12.290							
7,000.0	6,857.3	6,992.5	6,741.6	26.7	34.1	-30.67	85.1	1,638.5	640.3	588.1	52.23	12.259							
7,100.0	6,953.8	7,091.0	6,836.0	27.0	34.6	-4.19	85.4	1,666.8	633.7	581.6	52.17	12.147							
7,200.0	7,047.4	7,186.5	6,927.4	27.3	35.1	11.95	85.8	1,694.2	617.2	565.8	51.47	11.992							
7,300.0	7,136.1	7,277.0	7,014.2	27.5	35.6	23.72	86.1	1,720.2	592.2	542.3	49.94	11.858							
7,400.0	7,218.3	7,442.0	7,171.1	27.6	36.5	40.29	69.2	1,766.9	555.2	508.3	46.85	11.850 SF							
7,500.0	7,292.4	7,539.7	7,260.9	27.7	37.0	55.96	41.6	1,793.4	510.6	469.4	41.19	12.395							
7,600.0	7,356.9	7,587.4	7,303.3	27.9	37.2	66.70	23.5	1,805.8	472.2	437.8	34.47	13.700							
7,700.0	7,410.5	7,605.2	7,318.8	28.1	37.3	72.10	16.1	1,810.3	449.2	420.7	28.56	15.730							
7,762.1	7,437.8	7,606.5	7,319.9	28.2	37.3	73.17	15.5	1,810.6	445.1	418.1	26.99	16.490							
7,800.0	7,452.2	7,604.5	7,318.2	28.3	37.3	73.08	16.4	1,810.1	446.7	419.5	27.19	16.429							
7,900.0	7,481.2	7,592.0	7,307.3	28.5	37.2	70.54	21.7	1,806.9	464.9	433.2	31.63	14.695							
8,000.0	7,497.0	7,571.6	7,289.4	28.9	37.1	65.30	29.9	1,801.7	500.5	461.9	38.55	12.982							
8,100.0	7,500.0	7,550.0	7,270.2	29.2	37.0	60.20	37.9	1,796.1	548.5	503.2	45.34	12.097							
8,200.0	7,500.0	7,523.3	7,246.1	29.7	36.9	57.22	47.1	1,789.0	607.3	556.6	50.68	11.981							
8,300.0	7,500.0	7,500.0	7,224.8	30.3	36.8	54.66	54.3	1,782.8	674.8	619.9	54.85	12.303							
8,400.0	7,500.0	7,487.4	7,213.2	31.0	36.7	53.29	58.0	1,779.4	748.8	690.6	58.20	12.865							
8,500.0	7,500.0	7,473.1	7,200.0	31.7	36.6	51.77	61.8	1,775.5	827.8	767.2	60.66	13.647							
8,600.0	7,500.0	7,450.0	7,178.6	32.5	36.5	49.36	67.4	1,769.1	910.7	848.4	62.29	14.621							
8,700.0	7,500.0	7,450.0	7,178.6	33.4	36.5	49.36	67.4	1,769.1	996.2	932.2	63.99	15.568							
8,800.0	7,500.0	7,450.0	7,178.6	34.4	36.5	49.36	67.4	1,769.1	1,084.2	1,018.9	65.32	16.599							
8,900.0	7,500.0	7,431.4	7,161.2	35.4	36.4	47.47	71.4	1,764.0	1,173.8	1,107.8	66.03	17.778							
9,000.0	7,500.0	7,423.7	7,153.9	36.5	36.4	46.70	72.9	1,761.8	1,264.9	1,198.1	66.76	18.947							
9,100.0	7,500.0	7,416.8	7,147.4	37.6	36.4	46.01	74.2	1,759.9	1,357.1	1,289.8	67.36	20.147							
9,200.0	7,500.0	7,400.0	7,131.5	38.8	36.3	44.38	77.1	1,755.2	1,450.4	1,382.7	67.69	21.427							

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4L-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-89.52	0.8	-89.8	89.8						
100.0	100.0	100.0	100.0	0.1	0.1	-89.52	0.8	-89.8	89.8	89.5	0.30	302.706			
200.0	200.0	200.0	200.0	0.3	0.3	-89.52	0.8	-89.8	89.8	89.2	0.65	139.081	CC		
200.0	200.0	200.0	200.0	0.3	0.3	-89.52	0.8	-89.8	89.8	89.2	0.65	139.058			
300.0	300.0	300.0	300.0	0.5	0.5	91.59	0.8	-89.8	89.8	88.8	1.00	89.980			
400.0	399.8	399.8	399.8	0.7	0.7	94.91	0.8	-89.8	90.1	88.8	1.37	65.903	ES		
500.0	499.6	499.6	499.6	0.9	0.8	113.28	0.8	-89.8	91.9	90.1	1.74	52.732			
600.0	599.3	599.3	599.3	1.1	1.0	129.83	0.8	-89.8	95.8	93.7	2.11	45.310			
700.0	699.0	699.0	699.0	1.3	1.2	143.60	0.8	-89.8	101.7	99.2	2.48	41.041			
800.0	798.6	798.1	798.1	1.6	1.4	154.38	0.6	-90.0	109.7	106.9	2.84	38.691			
900.0	898.0	896.4	896.4	1.8	1.5	162.08	-0.4	-91.3	120.2	117.0	3.19	37.719			
1,000.0	997.3	994.5	994.4	2.0	1.7	167.28	-2.5	-93.9	133.3	129.7	3.54	37.647	SF		
1,100.0	1,096.5	1,092.0	1,091.8	2.3	1.9	170.61	-5.7	-97.8	148.8	144.9	3.90	38.191			
1,200.0	1,195.4	1,188.8	1,188.4	2.6	2.1	172.62	-9.8	-102.9	166.9	162.6	4.26	39.186			
1,300.0	1,294.1	1,284.9	1,284.1	2.9	2.3	173.70	-14.9	-109.2	187.6	183.0	4.63	40.524			
1,400.0	1,392.5	1,381.6	1,380.3	3.2	2.5	174.25	-20.8	-116.5	210.7	205.7	5.01	42.077			
1,500.0	1,490.6	1,478.2	1,476.6	3.6	2.7	174.65	-26.6	-123.8	235.7	230.3	5.39	43.725			
1,600.0	1,588.4	1,574.5	1,572.3	4.0	2.9	174.97	-32.5	-131.0	262.4	256.6	5.77	45.458			
1,700.0	1,686.0	1,670.4	1,667.8	4.4	3.1	174.05	-38.3	-138.3	290.2	284.0	6.16	47.142			
1,800.0	1,783.6	1,766.3	1,763.2	4.8	3.3	173.12	-44.2	-145.5	318.1	311.6	6.54	48.630			
1,900.0	1,881.1	1,862.2	1,858.7	5.2	3.6	172.35	-50.0	-152.7	346.1	339.2	6.93	49.950			
2,000.0	1,978.7	1,958.1	1,954.1	5.6	3.8	171.69	-55.8	-160.0	374.1	366.8	7.32	51.130			
2,100.0	2,076.3	2,054.0	2,049.6	6.0	4.0	171.13	-61.7	-167.2	402.2	394.5	7.71	52.188			
2,200.0	2,173.8	2,149.9	2,145.1	6.4	4.2	170.64	-67.5	-174.4	430.3	422.2	8.10	53.143			
2,300.0	2,271.4	2,245.8	2,240.5	6.8	4.4	170.20	-73.3	-181.7	458.5	450.0	8.49	54.009			
2,400.0	2,369.0	2,341.7	2,336.0	7.2	4.7	169.82	-79.2	-188.9	486.6	477.7	8.88	54.797			
2,500.0	2,466.5	2,437.6	2,431.4	7.7	4.9	169.48	-85.0	-196.1	514.8	505.5	9.27	55.517			
2,600.0	2,564.1	2,533.5	2,526.9	8.1	5.1	169.18	-90.8	-203.4	543.0	533.3	9.66	56.178			
2,700.0	2,661.7	2,629.4	2,622.3	8.5	5.4	168.90	-96.7	-210.6	571.2	561.1	10.06	56.786			
2,800.0	2,759.2	2,725.4	2,717.8	8.9	5.6	168.65	-102.5	-217.8	599.4	588.9	10.45	57.347			
2,900.0	2,856.8	2,821.3	2,813.3	9.3	5.8	168.42	-108.3	-225.1	627.6	616.7	10.85	57.867			
3,000.0	2,954.4	2,917.2	2,908.7	9.8	6.0	168.22	-114.2	-232.3	655.8	644.6	11.24	58.349			
3,100.0	3,052.0	3,013.1	3,004.2	10.2	6.3	168.03	-120.0	-239.5	684.0	672.4	11.63	58.799			
3,200.0	3,149.5	3,109.0	3,099.6	10.6	6.5	167.85	-125.8	-246.8	712.3	700.3	12.03	59.218			
3,300.0	3,247.1	3,204.9	3,195.1	11.0	6.7	167.69	-131.7	-254.0	740.5	728.1	12.42	59.610			
3,400.0	3,344.7	3,300.8	3,290.5	11.4	7.0	167.54	-137.5	-261.2	768.8	756.0	12.82	59.977			
3,500.0	3,442.2	3,396.7	3,386.0	11.9	7.2	167.40	-143.3	-268.5	797.0	783.8	13.21	60.322			
3,600.0	3,539.8	3,492.6	3,481.5	12.3	7.4	167.27	-149.2	-275.7	825.3	811.7	13.61	60.646			
3,700.0	3,637.4	3,588.5	3,576.9	12.7	7.6	167.15	-155.0	-282.9	853.6	839.5	14.00	60.952			
3,800.0	3,734.9	3,684.4	3,672.4	13.1	7.9	167.04	-160.8	-290.2	881.8	867.4	14.40	61.241			
3,900.0	3,832.5	3,780.3	3,767.8	13.6	8.1	166.93	-166.7	-297.4	910.1	895.3	14.79	61.514			
4,000.0	3,930.1	3,876.2	3,863.3	14.0	8.3	166.83	-172.5	-304.6	938.4	923.2	15.19	61.772			
4,100.0	4,027.7	3,972.2	3,958.7	14.4	8.6	166.74	-178.3	-311.9	966.6	951.0	15.59	62.017			
4,200.0	4,125.2	4,068.1	4,054.2	14.8	8.8	166.65	-184.2	-319.1	994.9	978.9	15.98	62.250			
4,300.0	4,222.8	4,164.0	4,149.7	15.3	9.0	166.57	-190.0	-326.3	1,023.2	1,006.8	16.38	62.471			
4,400.0	4,320.4	4,259.9	4,245.1	15.7	9.3	166.49	-195.8	-333.6	1,051.5	1,034.7	16.77	62.682			
4,500.0	4,417.9	4,355.8	4,340.6	16.1	9.5	166.41	-201.7	-340.8	1,079.7	1,062.6	17.17	62.883			
4,600.0	4,515.5	4,451.7	4,436.0	16.5	9.7	166.34	-207.5	-348.0	1,108.0	1,090.5	17.57	63.074			
4,700.0	4,613.1	4,547.6	4,531.5	17.0	10.0	166.27	-213.3	-355.3	1,136.3	1,118.4	17.96	63.257			
4,800.0	4,710.6	4,643.5	4,626.9	17.4	10.2	166.21	-219.2	-362.5	1,164.6	1,146.2	18.36	63.432			
4,900.0	4,808.2	4,739.4	4,722.4	17.8	10.4	166.15	-225.0	-369.7	1,192.9	1,174.1	18.76	63.599			
5,000.0	4,905.8	4,835.3	4,817.8	18.3	10.7	166.09	-230.8	-377.0	1,221.2	1,202.0	19.15	63.759			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5,100.0	5,003.3	4,931.2	4,913.3	18.7	10.9	166.03	-236.7	-384.2	1,249.5	1,229.9	19.55	63.913			
5,200.0	5,100.9	5,027.1	5,008.8	19.1	11.1	165.98	-242.5	-391.4	1,277.8	1,257.8	19.95	64.061			
5,300.0	5,198.5	5,123.1	5,104.2	19.5	11.4	165.93	-248.3	-398.7	1,306.1	1,285.7	20.34	64.202			
5,400.0	5,296.1	5,219.0	5,199.7	20.0	11.6	165.88	-254.2	-405.9	1,334.3	1,313.6	20.74	64.338			
5,500.0	5,393.6	5,314.9	5,295.1	20.4	11.8	165.83	-260.0	-413.1	1,362.6	1,341.5	21.14	64.469			
5,600.0	5,491.2	5,410.8	5,390.6	20.8	12.0	165.79	-265.8	-420.4	1,390.9	1,369.4	21.53	64.595			
5,700.0	5,588.8	5,506.7	5,486.0	21.2	12.3	165.74	-271.7	-427.6	1,419.2	1,397.3	21.93	64.717			
5,800.0	5,686.3	5,602.6	5,581.5	21.7	12.5	165.70	-277.5	-434.8	1,447.5	1,425.2	22.33	64.834			
5,900.0	5,783.9	5,698.5	5,677.0	22.1	12.7	165.66	-283.3	-442.1	1,475.8	1,453.1	22.72	64.946			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.46	0.8	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.46	0.8	-80.0	80.0	79.7	0.30	269.703		
200.0	200.0	200.0	200.0	0.3	0.3	-89.46	0.8	-80.0	80.0	79.4	0.65	123.918 CC		
200.0	200.0	200.0	200.0	0.3	0.3	-89.46	0.8	-80.0	80.0	79.4	0.65	123.916		
300.0	300.0	300.0	300.0	0.5	0.5	91.79	0.8	-80.0	80.1	79.1	1.00	80.177		
400.0	399.8	399.8	399.8	0.7	0.7	95.51	0.8	-80.0	80.4	79.0	1.37	58.776 ES		
500.0	499.6	499.6	499.6	0.9	0.8	114.37	0.8	-80.0	82.2	80.5	1.74	47.206		
600.0	599.3	599.3	599.3	1.1	1.0	131.30	0.8	-80.0	86.3	84.1	2.11	40.843		
700.0	699.0	699.0	699.0	1.3	1.2	145.30	0.8	-80.0	92.4	89.9	2.47	37.319		
800.0	798.6	798.6	798.6	1.6	1.4	156.29	0.8	-80.0	100.4	97.5	2.83	35.463		
900.0	898.0	897.4	897.4	1.8	1.5	164.27	0.1	-80.6	110.4	107.2	3.18	34.729 SF		
1,000.0	997.3	995.9	995.9	2.0	1.7	169.52	-1.7	-82.3	122.7	119.2	3.53	34.764		
1,100.0	1,096.5	1,094.0	1,093.9	2.3	1.9	172.73	-4.8	-85.1	137.2	133.3	3.88	35.316		
1,200.0	1,195.4	1,191.6	1,191.3	2.6	2.1	174.50	-9.1	-89.1	153.9	149.7	4.25	36.247		
1,300.0	1,294.1	1,288.6	1,288.0	2.9	2.3	175.28	-14.5	-94.1	173.1	168.5	4.62	37.476		
1,400.0	1,392.5	1,386.2	1,385.2	3.2	2.5	175.63	-20.5	-99.6	194.3	189.3	5.00	38.877		
1,500.0	1,490.6	1,483.3	1,482.0	3.6	2.7	175.88	-26.5	-105.1	217.3	211.9	5.38	40.402		
1,600.0	1,588.4	1,580.0	1,578.4	4.0	2.9	176.06	-32.4	-110.6	242.1	236.4	5.76	42.028		
1,700.0	1,686.0	1,676.4	1,674.5	4.4	3.1	175.01	-38.3	-116.0	268.0	261.9	6.14	43.620		
1,800.0	1,783.6	1,772.9	1,770.6	4.8	3.3	173.99	-44.2	-121.4	294.1	287.5	6.53	45.028		
1,900.0	1,881.1	1,869.3	1,866.7	5.2	3.5	173.14	-50.1	-126.9	320.2	313.3	6.92	46.277		
2,000.0	1,978.7	1,965.7	1,962.8	5.6	3.7	172.41	-56.0	-132.3	346.4	339.0	7.31	47.393		
2,100.0	2,076.3	2,062.2	2,058.9	6.0	3.9	171.79	-61.9	-137.8	372.6	364.9	7.70	48.395		
2,200.0	2,173.8	2,158.6	2,155.0	6.4	4.1	171.24	-67.8	-143.2	398.8	390.7	8.09	49.299		
2,300.0	2,271.4	2,255.0	2,251.1	6.8	4.3	170.77	-73.7	-148.6	425.1	416.6	8.48	50.118		
2,400.0	2,369.0	2,351.5	2,347.2	7.2	4.5	170.35	-79.6	-154.1	451.4	442.5	8.87	50.864		
2,500.0	2,466.5	2,447.9	2,443.3	7.7	4.7	169.97	-85.6	-159.5	477.7	468.4	9.27	51.545		
2,600.0	2,564.1	2,544.3	2,539.4	8.1	5.0	169.64	-91.5	-165.0	504.0	494.4	9.66	52.169		
2,700.0	2,661.7	2,640.7	2,635.5	8.5	5.2	169.34	-97.4	-170.4	530.4	520.3	10.06	52.744		
2,800.0	2,759.2	2,737.2	2,731.6	8.9	5.4	169.07	-103.3	-175.8	556.8	546.3	10.45	53.274		
2,900.0	2,856.8	2,833.6	2,827.6	9.3	5.6	168.82	-109.2	-181.3	583.1	572.3	10.85	53.765		
3,000.0	2,954.4	2,930.0	2,923.7	9.8	5.8	168.59	-115.1	-186.7	609.5	598.3	11.24	54.221		
3,100.0	3,052.0	3,026.5	3,019.8	10.2	6.0	168.38	-121.0	-192.2	635.9	624.3	11.64	54.644		
3,200.0	3,149.5	3,122.9	3,115.9	10.6	6.2	168.19	-126.9	-197.6	662.3	650.3	12.03	55.040		
3,300.0	3,247.1	3,219.3	3,212.0	11.0	6.5	168.01	-132.8	-203.0	688.7	676.3	12.43	55.410		
3,400.0	3,344.7	3,315.8	3,308.1	11.4	6.7	167.85	-138.7	-208.5	715.1	702.3	12.83	55.756		
3,500.0	3,442.2	3,412.2	3,404.2	11.9	6.9	167.70	-144.6	-213.9	741.5	728.3	13.22	56.081		
3,600.0	3,539.8	3,508.6	3,500.3	12.3	7.1	167.56	-150.5	-219.4	768.0	754.3	13.62	56.387		
3,700.0	3,637.4	3,605.0	3,596.4	12.7	7.3	167.42	-156.4	-224.8	794.4	780.4	14.02	56.675		
3,800.0	3,734.9	3,701.5	3,692.5	13.1	7.5	167.30	-162.3	-230.2	820.8	806.4	14.41	56.946		
3,900.0	3,832.5	3,797.9	3,788.6	13.6	7.8	167.18	-168.2	-235.7	847.3	832.4	14.81	57.203		
4,000.0	3,930.1	3,894.3	3,884.7	14.0	8.0	167.08	-174.1	-241.1	873.7	858.5	15.21	57.447		
4,100.0	4,027.7	3,990.8	3,980.8	14.4	8.2	166.97	-180.1	-246.6	900.1	884.5	15.61	57.677		
4,200.0	4,125.2	4,087.2	4,076.9	14.8	8.4	166.88	-186.0	-252.0	926.6	910.6	16.00	57.896		
4,300.0	4,222.8	4,183.6	4,173.0	15.3	8.6	166.79	-191.9	-257.4	953.0	936.6	16.40	58.104		
4,400.0	4,320.4	4,280.1	4,269.1	15.7	8.9	166.70	-197.8	-262.9	979.5	962.7	16.80	58.302		
4,500.0	4,417.9	4,376.5	4,365.2	16.1	9.1	166.62	-203.7	-268.3	1,005.9	988.7	17.20	58.491		
4,600.0	4,515.5	4,472.9	4,461.3	16.5	9.3	166.54	-209.6	-273.8	1,032.3	1,014.8	17.60	58.671		
4,700.0	4,613.1	4,569.3	4,557.4	17.0	9.5	166.47	-215.5	-279.2	1,058.8	1,040.8	17.99	58.842		
4,800.0	4,710.6	4,665.8	4,653.5	17.4	9.7	166.40	-221.4	-284.6	1,085.2	1,066.9	18.39	59.007		
4,900.0	4,808.2	4,762.2	4,749.5	17.8	9.9	166.33	-227.3	-290.1	1,111.7	1,092.9	18.79	59.164		
5,000.0	4,905.8	4,858.6	4,845.6	18.3	10.2	166.26	-233.2	-295.5	1,138.2	1,119.0	19.19	59.314		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
5,100.0	5,003.3	4,955.1	4,941.7	18.7	10.4	166.20	-239.1	-301.0	1,164.6	1,145.0	19.59	59.459			
5,200.0	5,100.9	5,051.5	5,037.8	19.1	10.6	166.15	-245.0	-306.4	1,191.1	1,171.1	19.99	59.597			
5,300.0	5,198.5	5,147.9	5,133.9	19.5	10.8	166.09	-250.9	-311.8	1,217.5	1,197.1	20.38	59.730			
5,400.0	5,296.1	5,244.4	5,230.0	20.0	11.0	166.04	-256.8	-317.3	1,244.0	1,223.2	20.78	59.858			
5,500.0	5,393.6	5,340.8	5,326.1	20.4	11.2	165.99	-262.7	-322.7	1,270.4	1,249.3	21.18	59.980			
5,600.0	5,491.2	5,437.2	5,422.2	20.8	11.5	165.94	-268.6	-328.2	1,296.9	1,275.3	21.58	60.099			
5,700.0	5,588.8	5,533.6	5,518.3	21.2	11.7	165.89	-274.5	-333.6	1,323.4	1,301.4	21.98	60.212			
5,800.0	5,686.3	5,630.1	5,614.4	21.7	11.9	165.84	-280.5	-339.0	1,349.8	1,327.5	22.38	60.322			
5,900.0	5,783.9	5,726.5	5,710.5	22.1	12.1	165.80	-286.4	-344.5	1,376.3	1,353.5	22.78	60.428			
6,000.0	5,881.5	5,822.9	5,806.6	22.5	12.3	165.76	-292.3	-349.9	1,402.8	1,379.6	23.17	60.530			
6,100.0	5,979.0	5,919.4	5,902.7	22.9	12.6	165.72	-298.2	-355.4	1,429.2	1,405.6	23.57	60.629			
6,200.0	6,076.6	6,015.8	5,998.8	23.4	12.8	165.68	-304.1	-360.8	1,455.7	1,431.7	23.97	60.724			
6,300.0	6,174.2	6,112.2	6,094.9	23.8	13.0	165.64	-310.0	-366.2	1,482.2	1,457.8	24.37	60.816			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.70	0.4	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.70	0.4	-69.9	69.9	69.7	0.30	235.747		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.4	-69.9	69.9	69.3	0.65	108.316	CC	
203.8	203.8	203.8	203.8	0.3	0.3	90.30	0.4	-69.9	69.9	69.3	0.66	106.090		
300.0	300.0	300.0	300.0	0.5	0.5	91.73	0.4	-69.9	70.0	69.0	1.00	70.083		
400.0	399.8	399.8	399.8	0.7	0.7	95.98	0.4	-69.9	70.3	69.0	1.37	51.421	ES	
500.0	499.6	499.6	499.6	0.9	0.8	115.49	0.4	-69.9	72.2	70.5	1.74	41.496		
600.0	599.3	599.3	599.3	1.1	1.0	132.91	0.4	-69.9	76.4	74.3	2.11	36.227		
700.0	699.0	699.0	699.0	1.3	1.2	147.05	0.2	-70.0	82.7	80.2	2.47	33.465		
800.0	798.6	798.7	798.7	1.6	1.4	157.08	-1.5	-70.6	90.7	87.9	2.83	32.072		
900.0	898.0	898.3	898.3	1.8	1.5	163.60	-4.7	-71.6	100.3	97.1	3.19	31.450		
1,000.0	997.3	997.7	997.5	2.0	1.7	167.50	-9.6	-73.3	111.4	107.9	3.56	31.321	SF	
1,100.0	1,096.5	1,096.9	1,096.5	2.3	1.9	170.01	-15.0	-75.1	124.2	120.3	3.93	31.605		
1,200.0	1,195.4	1,195.8	1,195.2	2.6	2.1	171.80	-20.4	-76.8	138.7	134.4	4.30	32.221		
1,300.0	1,294.1	1,294.4	1,293.7	2.9	2.3	173.08	-25.8	-78.6	154.9	150.2	4.68	33.095		
1,400.0	1,392.5	1,392.7	1,391.8	3.2	2.5	174.01	-31.1	-80.4	172.8	167.8	5.06	34.172		
1,500.0	1,490.6	1,490.7	1,489.6	3.6	2.7	174.70	-36.5	-82.2	192.5	187.1	5.44	35.412		
1,600.0	1,588.4	1,588.3	1,587.1	4.0	2.9	175.22	-41.8	-83.9	213.9	208.1	5.81	36.785		
1,700.0	1,686.0	1,685.6	1,684.3	4.4	3.1	174.45	-47.1	-85.7	236.4	230.2	6.20	38.153		
1,800.0	1,783.6	1,783.0	1,781.5	4.8	3.2	173.66	-52.4	-87.5	258.9	252.3	6.58	39.365		
1,900.0	1,881.1	1,880.4	1,878.7	5.2	3.4	173.00	-57.7	-89.2	281.5	274.5	6.96	40.443		
2,000.0	1,978.7	1,977.7	1,975.9	5.6	3.6	172.43	-63.0	-91.0	304.1	296.8	7.34	41.407		
2,100.0	2,076.3	2,075.1	2,073.1	6.0	3.8	171.94	-68.3	-92.8	326.7	319.0	7.73	42.274		
2,200.0	2,173.8	2,172.5	2,170.3	6.4	4.0	171.52	-73.6	-94.5	349.4	341.3	8.11	43.058		
2,300.0	2,271.4	2,269.9	2,267.5	6.8	4.2	171.14	-78.9	-96.3	372.0	363.5	8.50	43.770		
2,400.0	2,369.0	2,367.2	2,364.8	7.2	4.4	170.81	-84.2	-98.0	394.7	385.8	8.89	44.419		
2,500.0	2,466.5	2,464.6	2,462.0	7.7	4.6	170.52	-89.5	-99.8	417.4	408.2	9.27	45.013		
2,600.0	2,564.1	2,562.0	2,559.2	8.1	4.8	170.26	-94.8	-101.6	440.1	430.5	9.66	45.559		
2,700.0	2,661.7	2,659.3	2,656.4	8.5	5.0	170.02	-100.1	-103.3	462.8	452.8	10.05	46.062		
2,800.0	2,759.2	2,756.7	2,753.6	8.9	5.2	169.80	-105.4	-105.1	485.6	475.1	10.44	46.527		
2,900.0	2,856.8	2,854.1	2,850.8	9.3	5.4	169.61	-110.7	-106.8	508.3	497.5	10.82	46.958		
3,000.0	2,954.4	2,951.4	2,948.0	9.8	5.6	169.43	-116.0	-108.6	531.0	519.8	11.21	47.359		
3,100.0	3,052.0	3,048.8	3,045.2	10.2	5.8	169.26	-121.3	-110.4	553.7	542.1	11.60	47.732		
3,200.0	3,149.5	3,146.2	3,142.4	10.6	6.0	169.11	-126.6	-112.1	576.5	564.5	11.99	48.081		
3,300.0	3,247.1	3,243.6	3,239.6	11.0	6.2	168.97	-132.0	-113.9	599.2	586.8	12.38	48.408		
3,400.0	3,344.7	3,340.9	3,336.9	11.4	6.4	168.84	-137.3	-115.7	622.0	609.2	12.77	48.714		
3,500.0	3,442.2	3,438.3	3,434.1	11.9	6.5	168.72	-142.6	-117.4	644.7	631.5	13.16	49.002		
3,600.0	3,539.8	3,535.7	3,531.3	12.3	6.7	168.61	-147.9	-119.2	667.5	653.9	13.55	49.273		
3,700.0	3,637.4	3,633.0	3,628.5	12.7	6.9	168.50	-153.2	-120.9	690.2	676.3	13.94	49.529		
3,800.0	3,734.9	3,730.4	3,725.7	13.1	7.1	168.40	-158.5	-122.7	713.0	698.6	14.32	49.771		
3,900.0	3,832.5	3,827.8	3,822.9	13.6	7.3	168.31	-163.8	-124.5	735.7	721.0	14.71	49.999		
4,000.0	3,930.1	3,925.1	3,920.1	14.0	7.5	168.22	-169.1	-126.2	758.5	743.4	15.10	50.216		
4,100.0	4,027.7	4,022.5	4,017.3	14.4	7.7	168.14	-174.4	-128.0	781.2	765.7	15.49	50.421		
4,200.0	4,125.2	4,119.9	4,114.5	14.8	7.9	168.06	-179.7	-129.8	804.0	788.1	15.88	50.617		
4,300.0	4,222.8	4,217.3	4,211.7	15.3	8.1	167.99	-185.0	-131.5	826.7	810.5	16.27	50.803		
4,400.0	4,320.4	4,314.6	4,308.9	15.7	8.3	167.92	-190.3	-133.3	849.5	832.8	16.66	50.980		
4,500.0	4,417.9	4,412.0	4,406.2	16.1	8.5	167.86	-195.6	-135.0	872.3	855.2	17.05	51.148		
4,600.0	4,515.5	4,509.4	4,503.4	16.5	8.7	167.79	-200.9	-136.8	895.0	877.6	17.44	51.309		
4,700.0	4,613.1	4,606.7	4,600.6	17.0	8.9	167.74	-206.2	-138.6	917.8	900.0	17.83	51.463		
4,800.0	4,710.6	4,704.1	4,697.8	17.4	9.1	167.68	-211.5	-140.3	940.6	922.3	18.22	51.611		
4,900.0	4,808.2	4,801.5	4,795.0	17.8	9.3	167.63	-216.8	-142.1	963.3	944.7	18.61	51.752		
5,000.0	4,905.8	4,898.8	4,892.2	18.3	9.5	167.57	-222.1	-143.8	986.1	967.1	19.00	51.887		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,003.3	4,996.2	4,989.4	18.7	9.7	167.53	-227.4	-145.6	1,008.9	989.5	19.40	52.016		
5,200.0	5,100.9	5,093.6	5,086.6	19.1	9.9	167.48	-232.7	-147.4	1,031.6	1,011.9	19.79	52.141		
5,300.0	5,198.5	5,191.0	5,183.8	19.5	10.1	167.43	-238.0	-149.1	1,054.4	1,034.2	20.18	52.260		
5,400.0	5,296.1	5,288.3	5,281.0	20.0	10.3	167.39	-243.3	-150.9	1,077.2	1,056.6	20.57	52.375		
5,500.0	5,393.6	5,385.7	5,378.3	20.4	10.5	167.35	-248.6	-152.7	1,100.0	1,079.0	20.96	52.486		
5,600.0	5,491.2	5,483.1	5,475.5	20.8	10.6	167.31	-253.9	-154.4	1,122.7	1,101.4	21.35	52.592		
5,700.0	5,588.8	5,580.4	5,572.7	21.2	10.8	167.27	-259.2	-156.2	1,145.5	1,123.8	21.74	52.695		
5,800.0	5,686.3	5,677.8	5,669.9	21.7	11.0	167.24	-264.5	-157.9	1,168.3	1,146.1	22.13	52.794		
5,900.0	5,783.9	5,775.2	5,767.1	22.1	11.2	167.20	-269.9	-159.7	1,191.0	1,168.5	22.52	52.889		
6,000.0	5,881.5	5,872.5	5,864.3	22.5	11.4	167.17	-275.2	-161.5	1,213.8	1,190.9	22.91	52.982		
6,100.0	5,979.0	5,969.9	5,961.5	22.9	11.6	167.14	-280.5	-163.2	1,236.6	1,213.3	23.30	53.071		
6,200.0	6,076.6	6,067.3	6,058.7	23.4	11.8	167.11	-285.8	-165.0	1,259.4	1,235.7	23.69	53.157		
6,300.0	6,174.2	6,164.7	6,155.9	23.8	12.0	167.08	-291.1	-166.7	1,282.1	1,258.1	24.08	53.240		
6,400.0	6,271.7	6,262.0	6,253.1	24.2	12.2	167.05	-296.4	-168.5	1,304.9	1,280.4	24.47	53.321		
6,500.0	6,369.3	6,359.4	6,350.3	24.7	12.4	167.02	-301.7	-170.3	1,327.7	1,302.8	24.86	53.399		
6,600.0	6,466.9	6,456.8	6,447.6	25.1	12.6	166.99	-307.0	-172.0	1,350.5	1,325.2	25.25	53.474		
6,700.0	6,564.5	6,554.1	6,544.8	25.5	12.8	166.97	-312.3	-173.8	1,373.2	1,347.6	25.65	53.547		
6,800.0	6,662.0	6,651.5	6,642.0	25.9	13.0	166.94	-317.6	-175.6	1,396.0	1,370.0	26.04	53.618		
6,900.0	6,759.6	6,748.9	6,739.2	26.4	13.2	168.57	-322.9	-177.3	1,418.8	1,392.4	26.43	53.688		
7,000.0	6,857.3	6,845.9	6,836.1	26.7	13.4	-154.07	-328.2	-179.1	1,441.1	1,414.3	26.78	53.813		
7,100.0	6,953.8	6,941.1	6,931.1	27.0	13.6	-128.42	-333.4	-180.8	1,462.3	1,435.2	27.11	53.942		
7,200.0	7,047.4	7,029.4	7,019.3	27.3	13.7	-114.85	-335.5	-182.4	1,482.8	1,455.5	27.35	54.223		

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 4U-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 4U-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 #2	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: 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	0.0	0.0	0.0	0.0	-89.70	0.3	-59.9	59.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.70	0.3	-59.9	59.9	59.6	0.30	201.800		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.3	-59.9	59.9	59.2	0.65	92.719		
200.0	200.0	200.0	200.0	0.3	0.3	-89.70	0.3	-59.9	59.9	59.2	0.65	92.719	CC	
300.0	300.0	300.0	300.0	0.5	0.5	91.97	0.3	-59.9	59.9	58.9	1.00	59.999	ES	
400.0	399.8	399.8	399.8	0.7	0.7	96.93	0.3	-59.9	60.3	58.9	1.37	44.102		
500.0	499.6	499.6	499.6	0.9	0.8	117.27	0.3	-59.9	62.4	60.7	1.74	35.856		
600.0	599.3	599.3	599.3	1.1	1.0	135.26	0.3	-59.9	66.8	64.7	2.11	31.706		
700.0	699.0	699.9	699.9	1.3	1.2	149.38	-0.5	-59.5	72.7	70.2	2.47	29.448		
800.0	798.6	800.6	800.6	1.6	1.4	159.33	-2.9	-58.5	79.1	76.2	2.83	27.979		
900.0	898.0	901.4	901.3	1.8	1.6	165.88	-7.0	-56.8	85.8	82.6	3.19	26.931		
1,000.0	997.3	1,001.9	1,001.5	2.0	1.7	169.86	-12.6	-54.5	92.9	89.4	3.55	26.175		
1,100.0	1,096.5	1,101.5	1,100.9	2.3	1.9	172.43	-18.4	-52.0	101.5	97.6	3.92	25.901		
1,200.0	1,195.4	1,200.9	1,200.2	2.6	2.1	174.12	-24.2	-49.5	111.7	107.4	4.29	26.045		
1,300.0	1,294.1	1,300.1	1,299.2	2.9	2.3	175.22	-30.0	-47.1	123.6	118.9	4.66	26.514		
1,400.0	1,392.5	1,399.1	1,398.0	3.2	2.5	175.91	-35.8	-44.7	137.3	132.2	5.04	27.239		
1,500.0	1,490.6	1,497.9	1,496.5	3.6	2.7	176.34	-41.5	-42.2	152.6	147.2	5.42	28.170		
1,600.0	1,588.4	1,596.3	1,594.8	4.0	2.9	176.60	-47.3	-39.8	169.7	163.9	5.80	29.269		
1,700.0	1,686.0	1,694.6	1,692.9	4.4	3.1	175.61	-53.0	-37.4	188.0	181.8	6.18	30.394		
1,800.0	1,783.6	1,792.8	1,790.9	4.8	3.3	174.63	-58.8	-35.0	206.3	199.7	6.57	31.391		
1,900.0	1,881.1	1,891.1	1,889.0	5.2	3.5	173.82	-64.5	-32.5	224.6	217.6	6.96	32.278		
2,000.0	1,978.7	1,989.3	1,987.0	5.6	3.7	173.12	-70.3	-30.1	243.0	235.6	7.35	33.071		
2,100.0	2,076.3	2,087.6	2,085.1	6.0	3.9	172.53	-76.0	-27.7	261.4	253.7	7.74	33.783		
2,200.0	2,173.8	2,185.9	2,183.2	6.4	4.1	172.01	-81.8	-25.3	279.8	271.7	8.13	34.426		
2,300.0	2,271.4	2,284.1	2,281.2	6.8	4.3	171.56	-87.5	-22.9	298.3	289.8	8.52	35.010		
2,400.0	2,369.0	2,382.4	2,379.3	7.2	4.5	171.16	-93.3	-20.4	316.8	307.9	8.91	35.541		
2,500.0	2,466.5	2,480.6	2,477.3	7.7	4.7	170.80	-99.0	-18.0	335.3	325.9	9.31	36.027		
2,600.0	2,564.1	2,578.9	2,575.4	8.1	4.9	170.49	-104.7	-15.6	353.7	344.0	9.70	36.473		
2,700.0	2,661.7	2,677.1	2,673.4	8.5	5.1	170.20	-110.5	-13.2	372.3	362.2	10.09	36.884		
2,800.0	2,759.2	2,775.4	2,771.5	8.9	5.3	169.94	-116.2	-10.8	390.8	380.3	10.49	37.263		
2,900.0	2,856.8	2,873.7	2,869.6	9.3	5.5	169.70	-122.0	-8.3	409.3	398.4	10.88	37.614		
3,000.0	2,954.4	2,971.9	2,967.6	9.8	5.7	169.49	-127.7	-5.9	427.8	416.5	11.28	37.940		
3,100.0	3,052.0	3,070.2	3,065.7	10.2	5.9	169.29	-133.5	-3.5	446.3	434.7	11.67	38.243		
3,200.0	3,149.5	3,168.4	3,163.7	10.6	6.1	169.11	-139.2	-1.1	464.9	452.8	12.07	38.527		
3,300.0	3,247.1	3,266.7	3,261.8	11.0	6.3	168.94	-145.0	1.3	483.4	471.0	12.46	38.792		
3,400.0	3,344.7	3,364.9	3,359.9	11.4	6.5	168.78	-150.7	3.8	502.0	489.1	12.86	39.040		
3,500.0	3,442.2	3,463.2	3,457.9	11.9	6.7	168.64	-156.4	6.2	520.5	507.3	13.25	39.273		
3,600.0	3,539.8	3,561.5	3,556.0	12.3	6.9	168.50	-162.2	8.6	539.1	525.4	13.65	39.493		
3,700.0	3,637.4	3,659.7	3,654.0	12.7	7.1	168.38	-167.9	11.0	557.6	543.6	14.05	39.700		
3,800.0	3,734.9	3,758.0	3,752.1	13.1	7.3	168.26	-173.7	13.5	576.2	561.7	14.44	39.895		
3,900.0	3,832.5	3,856.2	3,850.1	13.6	7.5	168.15	-179.4	15.9	594.7	579.9	14.84	40.080		
4,000.0	3,930.1	3,954.5	3,948.2	14.0	7.7	168.05	-185.2	18.3	613.3	598.1	15.24	40.254		
4,100.0	4,027.7	4,052.7	4,046.3	14.4	7.9	167.95	-190.9	20.7	631.9	616.2	15.63	40.420		
4,200.0	4,125.2	4,151.0	4,144.3	14.8	8.2	167.86	-196.6	23.1	650.4	634.4	16.03	40.578		
4,300.0	4,222.8	4,249.2	4,242.4	15.3	8.4	167.77	-202.4	25.6	669.0	652.6	16.43	40.727		
4,400.0	4,320.4	4,347.5	4,340.4	15.7	8.6	167.69	-208.1	28.0	687.6	670.7	16.82	40.870		
4,500.0	4,417.9	4,445.8	4,438.5	16.1	8.8	167.61	-213.9	30.4	706.1	688.9	17.22	41.006		
4,600.0	4,515.5	4,544.0	4,536.6	16.5	9.0	167.53	-219.6	32.8	724.7	707.1	17.62	41.135		
4,700.0	4,613.1	4,642.3	4,634.6	17.0	9.2	167.46	-225.4	35.2	743.3	725.2	18.01	41.259		
4,800.0	4,710.6	4,740.5	4,732.7	17.4	9.4	167.40	-231.1	37.7	761.8	743.4	18.41	41.377		
4,900.0	4,808.2	4,838.8	4,830.7	17.8	9.6	167.33	-236.9	40.1	780.4	761.6	18.81	41.490		
5,000.0	4,905.8	4,937.0	4,928.8	18.3	9.8	167.27	-242.6	42.5	799.0	779.8	19.21	41.599		

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 4U-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 4U-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 #2	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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,003.3	5,035.3	5,026.9	18.7	10.0	167.22	-248.3	44.9	817.6	797.9	19.60	41.703		
5,200.0	5,100.9	5,133.6	5,124.9	19.1	10.2	167.16	-254.1	47.3	836.1	816.1	20.00	41.803		
5,300.0	5,198.5	5,231.8	5,223.0	19.5	10.4	167.11	-259.8	49.8	854.7	834.3	20.40	41.898		
5,400.0	5,296.1	5,330.1	5,321.0	20.0	10.6	167.06	-265.6	52.2	873.3	852.5	20.80	41.990		
5,500.0	5,393.6	5,428.3	5,419.1	20.4	10.8	167.01	-271.3	54.6	891.9	870.7	21.19	42.079		
5,600.0	5,491.2	5,526.6	5,517.1	20.8	11.0	166.96	-277.1	57.0	910.4	888.8	21.59	42.164		
5,700.0	5,588.8	5,624.8	5,615.2	21.2	11.2	166.92	-282.8	59.4	929.0	907.0	21.99	42.246		
5,800.0	5,686.3	5,723.1	5,713.3	21.7	11.4	166.87	-288.5	61.9	947.6	925.2	22.39	42.326		
5,900.0	5,783.9	5,821.4	5,811.3	22.1	11.6	166.83	-294.3	64.3	966.2	943.4	22.79	42.402		
6,000.0	5,881.5	5,919.6	5,909.4	22.5	11.8	166.79	-300.0	66.7	984.8	961.6	23.18	42.476		
6,100.0	5,979.0	6,017.9	6,007.4	22.9	12.0	166.75	-305.8	69.1	1,003.3	979.7	23.58	42.547		
6,200.0	6,076.6	6,116.1	6,105.5	23.4	12.2	166.72	-311.5	71.6	1,021.9	997.9	23.98	42.616		
6,300.0	6,174.2	6,214.4	6,203.6	23.8	12.4	166.68	-317.3	74.0	1,040.5	1,016.1	24.38	42.682		
6,400.0	6,271.7	6,312.6	6,301.6	24.2	12.6	166.65	-323.0	76.4	1,059.1	1,034.3	24.78	42.746		
6,500.0	6,369.3	6,410.9	6,399.7	24.7	12.8	166.61	-328.8	78.8	1,077.7	1,052.5	25.17	42.809		
6,600.0	6,466.9	6,509.1	6,497.7	25.1	13.0	166.58	-334.5	81.2	1,096.2	1,070.7	25.57	42.869		
6,700.0	6,564.5	6,607.4	6,595.8	25.5	13.2	166.55	-340.2	83.7	1,114.8	1,088.8	25.97	42.927		
6,800.0	6,662.0	6,703.7	6,691.9	25.9	13.4	166.54	-345.6	86.0	1,133.4	1,107.1	26.35	43.010		
6,900.0	6,759.6	6,792.7	6,780.7	26.4	13.5	168.57	-342.7	88.2	1,152.6	1,126.0	26.55	43.413		
7,000.0	6,857.3	6,879.8	6,866.7	26.7	13.5	-153.42	-329.2	90.3	1,172.1	1,145.5	26.55	44.146		
7,100.0	6,953.8	6,965.8	6,949.4	27.0	13.5	-126.66	-305.7	92.4	1,191.3	1,164.8	26.44	45.060		
7,200.0	7,047.4	7,050.0	7,027.0	27.3	13.4	-111.80	-273.3	94.3	1,209.7	1,183.4	26.26	46.072		
7,300.0	7,136.1	7,135.6	7,101.5	27.5	13.3	-102.99	-231.3	96.1	1,227.0	1,200.9	26.05	47.101		
7,400.0	7,218.3	7,219.9	7,169.4	27.6	13.2	-97.26	-181.5	97.8	1,242.8	1,216.9	25.89	48.010		
7,500.0	7,292.4	7,304.0	7,231.0	27.7	13.2	-93.31	-124.2	99.3	1,256.7	1,230.9	25.82	48.675		
7,600.0	7,356.9	7,388.3	7,285.4	27.9	13.2	-90.53	-60.0	100.7	1,268.6	1,242.7	25.92	48.950		
7,700.0	7,410.5	7,472.7	7,332.0	28.1	13.3	-88.60	10.4	101.8	1,278.2	1,252.0	26.23	48.731		
7,800.0	7,452.2	7,557.5	7,370.2	28.3	13.6	-87.35	86.0	102.8	1,285.3	1,258.5	26.80	47.961		
7,900.0	7,481.2	7,642.8	7,399.3	28.5	14.0	-86.68	166.1	103.5	1,289.8	1,262.2	27.66	46.639		
8,000.0	7,497.0	7,728.6	7,418.8	28.9	14.6	-86.54	249.7	104.0	1,291.7	1,262.9	28.81	44.840		
8,100.0	7,500.0	7,815.3	7,428.2	29.2	15.3	-86.81	335.8	104.2	1,291.0	1,260.8	30.23	42.711		
8,200.0	7,500.0	7,910.3	7,429.0	29.7	16.2	-86.85	430.8	104.2	1,290.4	1,258.4	32.03	40.284		
8,300.0	7,500.0	8,010.3	7,429.0	30.3	17.2	-86.84	530.8	104.2	1,289.9	1,255.7	34.18	37.740		
8,400.0	7,500.0	8,110.3	7,429.0	31.0	18.4	-86.84	630.8	104.2	1,289.4	1,252.9	36.53	35.293		
8,500.0	7,500.0	8,210.3	7,429.0	31.7	19.6	-86.84	730.8	104.2	1,288.9	1,249.8	39.06	32.995		
8,600.0	7,500.0	8,310.3	7,429.0	32.5	21.0	-86.84	830.8	104.2	1,288.4	1,246.6	41.73	30.872		
8,700.0	7,500.0	8,410.3	7,429.0	33.4	22.4	-86.84	930.8	104.2	1,287.8	1,243.3	44.52	28.929		
8,800.0	7,500.0	8,510.3	7,429.0	34.4	23.8	-86.84	1,030.8	104.2	1,287.3	1,239.9	47.40	27.160		
8,900.0	7,500.0	8,610.3	7,429.0	35.4	25.3	-86.84	1,130.8	104.2	1,286.8	1,236.4	50.36	25.554		
9,000.0	7,500.0	8,710.3	7,429.0	36.5	26.8	-86.84	1,230.8	104.2	1,286.3	1,232.9	53.38	24.096		
9,100.0	7,500.0	8,810.3	7,429.0	37.6	28.3	-86.83	1,330.8	104.2	1,285.7	1,229.3	56.46	22.772		
9,200.0	7,500.0	8,910.3	7,429.0	38.8	29.9	-86.83	1,430.8	104.2	1,285.2	1,225.6	59.59	21.568		
9,300.0	7,500.0	9,010.3	7,429.0	40.0	31.5	-86.83	1,530.8	104.2	1,284.7	1,221.9	62.76	20.471		
9,400.0	7,500.0	9,110.3	7,429.0	41.3	33.1	-86.83	1,630.8	104.2	1,284.2	1,218.2	65.96	19.470		
9,500.0	7,500.0	9,210.3	7,429.0	42.6	34.7	-86.83	1,730.8	104.2	1,283.6	1,214.5	69.19	18.553		
9,600.0	7,500.0	9,310.3	7,429.0	43.9	36.3	-86.83	1,830.8	104.2	1,283.1	1,210.7	72.44	17.713		
9,700.0	7,500.0	9,410.3	7,429.0	45.2	37.9	-86.83	1,930.8	104.2	1,282.6	1,206.9	75.72	16.939		
9,800.0	7,500.0	9,510.3	7,429.0	46.6	39.6	-86.83	2,030.8	104.2	1,282.1	1,203.1	79.02	16.226		
9,900.0	7,500.0	9,610.3	7,429.0	48.0	41.2	-86.82	2,130.8	104.2	1,281.6	1,199.2	82.33	15.566		
10,000.0	7,500.0	9,710.3	7,429.0	49.5	42.9	-86.82	2,230.8	104.2	1,281.0	1,195.4	85.66	14.955		
10,100.0	7,500.0	9,810.3	7,429.0	50.9	44.6	-86.82	2,330.8	104.2	1,280.5	1,191.5	89.00	14.388		
10,200.0	7,500.0	9,910.3	7,429.0	52.4	46.3	-86.82	2,430.8	104.2	1,280.0	1,187.6	92.35	13.859		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Well Error:		0.0 ft
Survey Program: 0-Geolink MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
10,300.0	7,500.0	10,010.3	7,429.0	53.9	47.9	-86.82	2,530.8	104.2	1,279.5	1,183.7	95.72	13.367			
10,400.0	7,500.0	10,110.3	7,429.0	55.4	49.6	-86.82	2,630.8	104.2	1,278.9	1,179.8	99.09	12.906			
10,500.0	7,500.0	10,210.3	7,429.0	56.9	51.3	-86.82	2,730.8	104.2	1,278.4	1,175.9	102.48	12.475			
10,600.0	7,500.0	10,310.3	7,429.0	58.4	53.0	-86.81	2,830.8	104.2	1,277.9	1,172.0	105.87	12.071			
10,700.0	7,500.0	10,410.3	7,429.0	60.0	54.7	-86.81	2,930.8	104.2	1,277.4	1,168.1	109.26	11.691			
10,800.0	7,500.0	10,510.3	7,429.0	61.5	56.4	-86.81	3,030.8	104.2	1,276.8	1,164.2	112.67	11.333			
10,900.0	7,500.0	10,610.3	7,429.0	63.1	58.1	-86.81	3,130.8	104.2	1,276.3	1,160.2	116.08	10.995			
11,000.0	7,500.0	10,710.3	7,429.0	64.7	59.8	-86.81	3,230.8	104.2	1,275.8	1,156.3	119.49	10.677			
11,100.0	7,500.0	10,810.3	7,429.0	66.2	61.6	-86.81	3,330.8	104.2	1,275.3	1,152.4	122.91	10.375			
11,200.0	7,500.0	10,910.3	7,429.0	67.8	63.3	-86.81	3,430.8	104.2	1,274.8	1,148.4	126.34	10.090			
11,300.0	7,500.0	11,010.3	7,429.0	69.4	65.0	-86.81	3,530.8	104.2	1,274.2	1,144.5	129.77	9.819			
11,400.0	7,500.0	11,110.3	7,429.0	71.0	66.7	-86.80	3,630.8	104.2	1,273.7	1,140.5	133.20	9.562			
11,500.0	7,500.0	11,210.3	7,429.0	72.7	68.4	-86.80	3,730.8	104.2	1,273.2	1,136.5	136.64	9.318			
11,600.0	7,500.0	11,310.3	7,429.0	74.3	70.1	-86.80	3,830.8	104.2	1,272.7	1,132.6	140.08	9.086			
11,700.0	7,500.0	11,410.3	7,429.0	75.9	71.9	-86.80	3,930.8	104.2	1,272.1	1,128.6	143.52	8.864			
11,800.0	7,500.0	11,510.3	7,429.0	77.5	73.6	-86.80	4,030.8	104.2	1,271.6	1,124.7	146.96	8.653			
11,900.0	7,500.0	11,610.3	7,429.0	79.2	75.3	-86.80	4,130.8	104.2	1,271.1	1,120.7	150.41	8.451			
11,924.2	7,500.0	11,629.8	7,429.0	79.6	75.7	-86.80	4,150.3	104.2	1,271.0	1,119.9	151.07	8.413 SF			
12,000.0	7,500.0	11,640.0	7,429.0	80.8	75.8	-86.80	4,160.5	103.9	1,273.3	1,122.3	150.99	8.433			
12,023.9	7,500.0	11,640.0	7,429.0	81.2	75.8	-86.80	4,160.5	103.9	1,274.8	1,124.1	150.74	8.457			

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	-89.57	0.4	-49.8	49.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.57	0.4	-49.8	49.8	49.5	0.30	167.855		
200.0	200.0	200.0	200.0	0.3	0.3	-89.57	0.4	-49.8	49.8	49.2	0.65	77.122 CC		
203.3	203.3	203.3	203.3	0.3	0.3	90.44	0.4	-49.8	49.8	49.1	0.66	75.750		
300.0	300.0	300.0	300.0	0.5	0.5	92.44	0.4	-49.8	49.8	48.8	1.00	49.922 ES		
400.0	399.8	399.8	399.8	0.7	0.7	98.38	0.4	-49.8	50.3	49.0	1.37	36.814		
500.0	499.6	499.6	499.6	0.9	0.8	119.84	0.4	-49.8	52.7	50.9	1.74	30.286		
600.0	599.3	599.8	599.8	1.1	1.0	138.44	0.2	-49.7	57.2	55.1	2.10	27.179		
700.0	699.0	700.5	700.5	1.3	1.2	152.69	-1.1	-48.5	62.3	59.9	2.46	25.318		
800.0	798.6	801.4	801.3	1.6	1.4	162.90	-3.8	-46.2	67.6	64.7	2.82	24.000		
900.0	898.0	902.4	902.2	1.8	1.6	169.83	-7.7	-42.6	72.7	69.6	3.17	22.960		
1,000.0	997.3	1,003.5	1,003.0	2.0	1.8	174.19	-13.1	-37.9	77.8	74.3	3.52	22.081		
1,100.0	1,096.5	1,103.3	1,102.5	2.3	2.0	176.83	-18.9	-32.8	83.7	79.8	3.88	21.559		
1,200.0	1,195.4	1,203.0	1,201.9	2.6	2.2	178.39	-24.8	-27.6	91.2	86.9	4.24	21.487		
1,300.0	1,294.1	1,302.5	1,301.1	2.9	2.4	179.22	-30.6	-22.4	100.3	95.7	4.61	21.768		
1,400.0	1,392.5	1,401.8	1,400.1	3.2	2.6	179.57	-36.4	-17.3	111.2	106.2	4.98	22.329		
1,500.0	1,490.6	1,501.0	1,499.0	3.6	2.8	179.63	-42.3	-12.2	123.7	118.4	5.35	23.116		
1,600.0	1,588.4	1,599.9	1,597.6	4.0	3.0	179.52	-48.1	-7.0	138.1	132.3	5.73	24.088		
1,700.0	1,686.0	1,698.6	1,696.0	4.4	3.2	178.19	-53.8	-1.9	153.5	147.4	6.11	25.106		
1,800.0	1,783.6	1,797.3	1,794.4	4.8	3.4	176.95	-59.6	3.2	169.0	162.5	6.50	26.010		
1,900.0	1,881.1	1,896.0	1,892.8	5.2	3.7	175.93	-65.4	8.3	184.6	177.8	6.89	26.816		
2,000.0	1,978.7	1,994.8	1,991.3	5.6	3.9	175.06	-71.2	13.4	200.3	193.0	7.27	27.538		
2,100.0	2,076.3	2,093.5	2,089.7	6.0	4.1	174.31	-77.0	18.5	216.0	208.3	7.66	28.188		
2,200.0	2,173.8	2,192.2	2,188.1	6.4	4.3	173.67	-82.8	23.6	231.7	223.7	8.05	28.775		
2,300.0	2,271.4	2,290.9	2,286.5	6.8	4.5	173.11	-88.6	28.7	247.5	239.0	8.44	29.308		
2,400.0	2,369.0	2,389.7	2,384.9	7.2	4.7	172.62	-94.4	33.9	263.2	254.4	8.84	29.793		
2,500.0	2,466.5	2,488.4	2,483.4	7.7	4.9	172.18	-100.2	39.0	279.0	269.8	9.23	30.237		
2,600.0	2,564.1	2,587.1	2,581.8	8.1	5.2	171.79	-106.0	44.1	294.8	285.2	9.62	30.644		
2,700.0	2,661.7	2,685.8	2,680.2	8.5	5.4	171.44	-111.8	49.2	310.6	300.6	10.01	31.019		
2,800.0	2,759.2	2,784.6	2,778.6	8.9	5.6	171.12	-117.6	54.3	326.4	316.0	10.41	31.365		
2,900.0	2,856.8	2,883.3	2,877.1	9.3	5.8	170.83	-123.3	59.4	342.3	331.5	10.80	31.686		
3,000.0	2,954.4	2,982.0	2,975.5	9.8	6.0	170.57	-129.1	64.5	358.1	346.9	11.20	31.984		
3,100.0	3,052.0	3,080.7	3,073.9	10.2	6.2	170.33	-134.9	69.6	373.9	362.4	11.59	32.261		
3,200.0	3,149.5	3,179.5	3,172.3	10.6	6.5	170.11	-140.7	74.8	389.8	377.8	11.99	32.519		
3,300.0	3,247.1	3,278.2	3,270.7	11.0	6.7	169.91	-146.5	79.9	405.7	393.3	12.38	32.761		
3,400.0	3,344.7	3,376.9	3,369.2	11.4	6.9	169.72	-152.3	85.0	421.5	408.7	12.78	32.988		
3,500.0	3,442.2	3,475.6	3,467.6	11.9	7.1	169.54	-158.1	90.1	437.4	424.2	13.17	33.200		
3,600.0	3,539.8	3,574.4	3,566.0	12.3	7.3	169.38	-163.9	95.2	453.2	439.7	13.57	33.401		
3,700.0	3,637.4	3,673.1	3,664.4	12.7	7.5	169.23	-169.7	100.3	469.1	455.1	13.97	33.589		
3,800.0	3,734.9	3,771.8	3,762.9	13.1	7.8	169.09	-175.5	105.4	485.0	470.6	14.36	33.767		
3,900.0	3,832.5	3,870.5	3,861.3	13.6	8.0	168.96	-181.3	110.6	500.9	486.1	14.76	33.935		
4,000.0	3,930.1	3,969.3	3,959.7	14.0	8.2	168.83	-187.1	115.7	516.7	501.6	15.16	34.095		
4,100.0	4,027.7	4,068.0	4,058.1	14.4	8.4	168.72	-192.8	120.8	532.6	517.1	15.55	34.246		
4,200.0	4,125.2	4,166.7	4,156.5	14.8	8.6	168.61	-198.6	125.9	548.5	532.5	15.95	34.389		
4,300.0	4,222.8	4,265.4	4,255.0	15.3	8.9	168.50	-204.4	131.0	564.4	548.0	16.35	34.525		
4,400.0	4,320.4	4,364.2	4,353.4	15.7	9.1	168.40	-210.2	136.1	580.3	563.5	16.74	34.655		
4,500.0	4,417.9	4,462.9	4,451.8	16.1	9.3	168.31	-216.0	141.2	596.2	579.0	17.14	34.778		
4,600.0	4,515.5	4,561.6	4,550.2	16.5	9.5	168.22	-221.8	146.3	612.0	594.5	17.54	34.896		
4,700.0	4,613.1	4,660.3	4,648.7	17.0	9.7	168.14	-227.6	151.5	627.9	610.0	17.94	35.009		
4,800.0	4,710.6	4,759.1	4,747.1	17.4	9.9	168.06	-233.4	156.6	643.8	625.5	18.33	35.116		
4,900.0	4,808.2	4,857.8	4,845.5	17.8	10.2	167.98	-239.2	161.7	659.7	641.0	18.73	35.219		
5,000.0	4,905.8	4,956.5	4,943.9	18.3	10.4	167.91	-245.0	166.8	675.6	656.5	19.13	35.318		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,055.3	5,042.4	18.7	10.6	167.84	-250.8	171.9	691.5	672.0	19.53	35.413		
5,200.0	5,100.9	5,154.0	5,140.8	19.1	10.8	167.78	-256.6	177.0	707.4	687.5	19.93	35.503		
5,300.0	5,198.5	5,252.7	5,239.2	19.5	11.0	167.72	-262.3	182.1	723.3	703.0	20.32	35.590		
5,400.0	5,296.1	5,351.4	5,337.6	20.0	11.3	167.66	-268.1	187.2	739.2	718.5	20.72	35.674		
5,500.0	5,393.6	5,450.2	5,436.0	20.4	11.5	167.60	-273.9	192.4	755.1	734.0	21.12	35.754		
5,600.0	5,491.2	5,548.9	5,534.5	20.8	11.7	167.54	-279.7	197.5	771.0	749.5	21.52	35.832		
5,700.0	5,588.8	5,647.6	5,632.9	21.2	11.9	167.49	-285.5	202.6	786.9	765.0	21.92	35.906		
5,800.0	5,686.3	5,746.3	5,731.3	21.7	12.1	167.44	-291.3	207.7	802.8	780.5	22.31	35.978		
5,900.0	5,783.9	5,845.1	5,829.7	22.1	12.4	167.39	-297.1	212.8	818.7	796.0	22.71	36.048		
6,000.0	5,881.5	5,943.8	5,928.2	22.5	12.6	167.34	-302.9	217.9	834.6	811.5	23.11	36.115		
6,100.0	5,979.0	6,042.5	6,026.6	22.9	12.8	167.30	-308.7	223.0	850.5	827.0	23.51	36.179		
6,200.0	6,076.6	6,141.2	6,125.0	23.4	13.0	167.25	-314.5	228.1	866.4	842.5	23.91	36.242		
6,300.0	6,174.2	6,240.0	6,223.4	23.8	13.2	167.21	-320.3	233.3	882.3	858.0	24.30	36.302		
6,400.0	6,271.7	6,338.7	6,321.8	24.2	13.4	167.17	-326.1	238.4	898.2	873.5	24.70	36.360		
6,500.0	6,369.3	6,437.4	6,420.3	24.7	13.7	167.13	-331.8	243.5	914.1	889.0	25.10	36.417		
6,600.0	6,466.9	6,536.1	6,518.7	25.1	13.9	167.09	-337.6	248.6	930.0	904.5	25.50	36.471		
6,700.0	6,564.5	6,634.9	6,617.1	25.5	14.1	167.06	-343.4	253.7	945.9	920.0	25.90	36.524		
6,800.0	6,662.0	6,733.6	6,715.5	25.9	14.3	167.02	-349.2	258.8	961.8	935.5	26.30	36.576		
6,900.0	6,759.6	6,824.8	6,806.6	26.4	14.5	168.80	-351.7	263.5	978.0	951.4	26.59	36.779		
7,000.0	6,857.3	6,912.4	6,893.6	26.7	14.6	-153.64	-343.6	267.8	994.7	968.0	26.67	37.291		
7,100.0	6,953.8	7,000.0	6,979.1	27.0	14.6	-127.31	-324.9	271.8	1,011.2	984.5	26.63	37.967		
7,200.0	7,047.4	7,085.8	7,060.0	27.3	14.5	-112.86	-296.6	275.4	1,027.2	1,000.7	26.51	38.750		
7,300.0	7,136.1	7,172.1	7,137.3	27.5	14.4	-104.44	-258.6	278.7	1,042.4	1,016.0	26.34	39.571		
7,400.0	7,218.3	7,258.5	7,209.6	27.6	14.3	-99.05	-211.6	281.6	1,056.4	1,030.2	26.18	40.344		
7,500.0	7,292.4	7,345.1	7,275.9	27.7	14.3	-95.41	-156.0	284.0	1,069.1	1,043.0	26.10	40.968		
7,600.0	7,356.9	7,432.0	7,335.3	27.9	14.3	-92.89	-92.6	285.9	1,080.2	1,054.0	26.14	41.323		
7,700.0	7,410.5	7,519.6	7,386.9	28.1	14.4	-91.19	-21.9	287.3	1,089.4	1,063.1	26.37	41.308		
7,800.0	7,452.2	7,607.9	7,429.8	28.3	14.6	-90.12	55.2	288.1	1,096.8	1,069.9	26.85	40.846		
7,900.0	7,481.2	7,697.1	7,463.2	28.5	14.9	-89.59	137.8	288.4	1,102.0	1,074.4	27.62	39.902		
8,000.0	7,497.0	7,787.3	7,486.2	28.9	15.4	-89.55	225.0	288.1	1,105.1	1,076.4	28.70	38.505		
8,100.0	7,500.0	7,878.7	7,498.3	29.2	16.1	-89.91	315.5	287.1	1,106.3	1,076.2	30.09	36.764		
8,200.0	7,500.0	7,974.7	7,500.0	29.7	16.9	-90.00	411.5	285.5	1,107.4	1,075.6	31.83	34.791		
8,300.0	7,500.0	8,074.7	7,500.0	30.3	17.9	-90.00	511.5	283.8	1,108.6	1,074.7	33.91	32.694		
8,400.0	7,500.0	8,174.7	7,500.0	31.0	19.0	-90.00	611.5	282.0	1,109.8	1,073.6	36.21	30.654		
8,500.0	7,500.0	8,274.7	7,500.0	31.7	20.1	-90.00	711.4	280.3	1,111.1	1,072.4	38.68	28.722		
8,600.0	7,500.0	8,374.7	7,500.0	32.5	21.4	-90.00	811.4	278.5	1,112.3	1,071.0	41.31	26.924		
8,700.0	7,500.0	8,474.7	7,500.0	33.4	22.7	-90.00	911.4	276.8	1,113.5	1,069.4	44.06	25.271		
8,800.0	7,500.0	8,574.7	7,500.0	34.4	24.1	-90.00	1,011.4	275.0	1,114.7	1,067.8	46.91	23.761		
8,900.0	7,500.0	8,674.7	7,500.0	35.4	25.5	-90.00	1,111.3	273.3	1,115.9	1,066.1	49.85	22.386		
9,000.0	7,500.0	8,774.7	7,500.0	36.5	27.0	-90.00	1,211.3	271.5	1,117.2	1,064.3	52.86	21.136		
9,100.0	7,500.0	8,874.7	7,500.0	37.6	28.5	-90.00	1,311.3	269.8	1,118.4	1,062.5	55.92	20.000		
9,200.0	7,500.0	8,974.7	7,500.0	38.8	30.0	-90.00	1,411.3	268.0	1,119.6	1,060.6	59.03	18.965		
9,300.0	7,500.0	9,074.7	7,500.0	40.0	31.6	-90.00	1,511.2	266.3	1,120.8	1,058.6	62.19	18.023		
9,400.0	7,500.0	9,174.6	7,500.0	41.3	33.2	-90.00	1,611.2	264.6	1,122.0	1,056.7	65.38	17.162		
9,500.0	7,500.0	9,274.6	7,500.0	42.6	34.7	-90.00	1,711.2	262.8	1,123.3	1,054.7	68.60	16.373		
9,600.0	7,500.0	9,374.6	7,500.0	43.9	36.3	-90.00	1,811.2	261.1	1,124.5	1,052.6	71.85	15.650		
9,700.0	7,500.0	9,474.6	7,500.0	45.2	38.0	-90.00	1,911.2	259.3	1,125.7	1,050.6	75.13	14.984		
9,800.0	7,500.0	9,574.6	7,500.0	46.6	39.6	-90.00	2,011.1	257.6	1,126.9	1,048.5	78.42	14.371		
9,900.0	7,500.0	9,674.6	7,500.0	48.0	41.2	-90.00	2,111.1	255.8	1,128.2	1,046.4	81.73	13.803		
10,000.0	7,500.0	9,774.6	7,500.0	49.5	42.9	-90.00	2,211.1	254.1	1,129.4	1,044.3	85.06	13.278		
10,100.0	7,500.0	9,874.6	7,500.0	50.9	44.5	-90.00	2,311.1	252.3	1,130.6	1,042.2	88.40	12.790		
10,200.0	7,500.0	9,974.6	7,500.0	52.4	46.2	-90.00	2,411.0	250.6	1,131.8	1,040.1	91.75	12.336		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1															
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,300.0	7,500.0	10,074.6	7,500.0	53.9	47.9	-90.00	2,511.0	248.9	1,133.0	1,037.9	95.12	11.912			
10,400.0	7,500.0	10,174.6	7,500.0	55.4	49.5	-90.00	2,611.0	247.1	1,134.3	1,035.8	98.49	11.516			
10,500.0	7,500.0	10,274.6	7,500.0	56.9	51.2	-90.00	2,711.0	245.4	1,135.5	1,033.6	101.87	11.146			
10,600.0	7,500.0	10,374.6	7,500.0	58.4	52.9	-90.00	2,811.0	243.6	1,136.7	1,031.4	105.27	10.798			
10,700.0	7,500.0	10,474.5	7,500.0	60.0	54.6	-90.00	2,910.9	241.9	1,137.9	1,029.3	108.66	10.472			
10,800.0	7,500.0	10,574.5	7,500.0	61.5	56.3	-90.00	3,010.9	240.1	1,139.1	1,027.1	112.07	10.165			
10,900.0	7,500.0	10,674.5	7,500.0	63.1	58.0	-90.00	3,110.9	238.4	1,140.4	1,024.9	115.48	9.875			
11,000.0	7,500.0	10,774.5	7,500.0	64.7	59.7	-90.00	3,210.9	236.6	1,141.6	1,022.7	118.90	9.601			
11,100.0	7,500.0	10,874.5	7,500.0	66.2	61.4	-90.00	3,310.8	234.9	1,142.8	1,020.5	122.32	9.343			
11,200.0	7,500.0	10,974.5	7,500.0	67.8	63.1	-90.00	3,410.8	233.1	1,144.0	1,018.3	125.75	9.098			
11,300.0	7,500.0	11,074.5	7,500.0	69.4	64.8	-90.00	3,510.8	231.4	1,145.3	1,016.1	129.18	8.865			
11,400.0	7,500.0	11,174.5	7,500.0	71.0	66.5	-90.00	3,610.8	229.7	1,146.5	1,013.9	132.62	8.645			
11,500.0	7,500.0	11,274.5	7,500.0	72.7	68.2	-90.00	3,710.8	227.9	1,147.7	1,011.6	136.06	8.435			
11,600.0	7,500.0	11,374.5	7,500.0	74.3	70.0	-90.00	3,810.7	226.2	1,148.9	1,009.4	139.50	8.236			
11,700.0	7,500.0	11,474.5	7,500.0	75.9	71.7	-90.00	3,910.7	224.4	1,150.1	1,007.2	142.95	8.046			
11,800.0	7,500.0	11,574.5	7,500.0	77.5	73.4	-90.00	4,010.7	222.7	1,151.4	1,005.0	146.39	7.865			
11,900.0	7,500.0	11,674.5	7,500.0	79.2	75.1	-90.00	4,110.7	220.9	1,152.6	1,002.7	149.85	7.692			
12,000.0	7,500.0	11,774.4	7,500.0	80.8	76.8	-90.00	4,210.6	219.2	1,154.2	1,000.9	153.30	7.529			
12,023.9	7,500.0	11,798.3	7,500.0	81.2	77.2	-90.00	4,234.5	218.8	1,154.7	1,000.5	154.13	7.492 SF			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.48	0.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.48	0.4	-40.0	40.0	39.7	0.30	134.851		
200.0	200.0	200.0	200.0	0.3	0.3	-89.48	0.4	-40.0	40.0	39.4	0.65	61.959 CC		
203.9	203.9	203.9	203.9	0.3	0.3	90.52	0.4	-40.0	40.0	39.4	0.66	60.655		
300.0	300.0	300.0	300.0	0.5	0.5	93.01	0.4	-40.0	40.1	39.1	1.00	40.125 ES		
400.0	399.8	399.8	399.8	0.7	0.7	100.37	0.4	-40.0	40.7	39.3	1.37	29.752		
500.0	499.6	499.6	499.6	0.9	0.8	123.33	0.4	-40.0	43.3	41.6	1.74	24.943		
600.0	599.3	600.1	600.1	1.1	1.0	142.68	-0.1	-39.3	47.5	45.4	2.10	22.656		
700.0	699.0	700.8	700.8	1.3	1.2	157.55	-1.6	-37.1	52.0	49.5	2.45	21.216		
800.0	798.6	801.7	801.5	1.6	1.4	168.46	-4.1	-33.5	56.4	53.6	2.80	20.153		
900.0	898.0	902.6	902.3	1.8	1.6	176.19	-7.6	-28.3	60.5	57.4	3.14	19.263		
1,000.0	997.3	1,003.6	1,003.0	2.0	1.8	-178.57	-12.2	-21.8	64.3	60.8	3.48	18.456		
1,100.0	1,096.5	1,104.7	1,103.6	2.3	2.0	-175.29	-17.7	-13.7	67.8	63.9	3.83	17.701		
1,200.0	1,195.4	1,204.6	1,202.9	2.6	2.2	-173.52	-23.6	-5.1	71.9	67.7	4.18	17.208		
1,300.0	1,294.1	1,304.4	1,302.2	2.9	2.5	-172.87	-29.5	3.5	77.5	73.0	4.53	17.114		
1,400.0	1,392.5	1,404.1	1,401.3	3.2	2.7	-172.97	-35.4	12.2	84.7	79.8	4.88	17.346		
1,500.0	1,490.6	1,503.6	1,500.3	3.6	2.9	-173.54	-41.3	20.8	93.6	88.4	5.24	17.846		
1,600.0	1,588.4	1,603.0	1,599.1	4.0	3.2	-174.35	-47.2	29.4	104.2	98.6	5.61	18.569		
1,700.0	1,686.0	1,702.2	1,697.8	4.4	3.4	-176.34	-53.1	37.9	116.0	110.0	5.98	19.374		
1,800.0	1,783.6	1,801.4	1,796.4	4.8	3.7	-178.12	-59.0	46.5	127.9	121.5	6.36	20.098		
1,900.0	1,881.1	1,900.6	1,895.1	5.2	3.9	-179.60	-64.9	55.1	139.8	133.1	6.74	20.747		
2,000.0	1,978.7	1,999.8	1,993.8	5.6	4.2	179.16	-70.7	63.7	151.9	144.8	7.12	21.331		
2,100.0	2,076.3	2,099.1	2,092.5	6.0	4.4	178.10	-76.6	72.2	164.1	156.6	7.51	21.858		
2,200.0	2,173.8	2,198.3	2,191.1	6.4	4.6	177.19	-82.5	80.8	176.2	168.4	7.89	22.335		
2,300.0	2,271.4	2,297.5	2,289.8	6.8	4.9	176.40	-88.4	89.4	188.5	180.2	8.28	22.769		
2,400.0	2,369.0	2,396.7	2,388.5	7.2	5.1	175.70	-94.3	98.0	200.7	192.1	8.67	23.164		
2,500.0	2,466.5	2,495.9	2,487.2	7.7	5.4	175.08	-100.1	106.6	213.0	203.9	9.05	23.525		
2,600.0	2,564.1	2,595.2	2,585.8	8.1	5.6	174.53	-106.0	115.1	225.3	215.9	9.44	23.856		
2,700.0	2,661.7	2,694.4	2,684.5	8.5	5.9	174.04	-111.9	123.7	237.6	227.8	9.83	24.161		
2,800.0	2,759.2	2,793.6	2,783.2	8.9	6.1	173.59	-117.8	132.3	249.9	239.7	10.23	24.443		
2,900.0	2,856.8	2,892.8	2,881.8	9.3	6.4	173.19	-123.7	140.9	262.3	251.7	10.62	24.703		
3,000.0	2,954.4	2,992.0	2,980.5	9.8	6.6	172.82	-129.6	149.4	274.7	263.6	11.01	24.945		
3,100.0	3,052.0	3,091.2	3,079.2	10.2	6.9	172.49	-135.4	158.0	287.0	275.6	11.40	25.170		
3,200.0	3,149.5	3,190.5	3,177.9	10.6	7.1	172.18	-141.3	166.6	299.4	287.6	11.80	25.379		
3,300.0	3,247.1	3,289.7	3,276.5	11.0	7.4	171.90	-147.2	175.2	311.8	299.6	12.19	25.575		
3,400.0	3,344.7	3,388.9	3,375.2	11.4	7.6	171.64	-153.1	183.7	324.2	311.6	12.59	25.758		
3,500.0	3,442.2	3,488.1	3,473.9	11.9	7.9	171.40	-159.0	192.3	336.6	323.6	12.98	25.930		
3,600.0	3,539.8	3,587.3	3,572.5	12.3	8.1	171.17	-164.8	200.9	349.0	335.6	13.38	26.091		
3,700.0	3,637.4	3,686.6	3,671.2	12.7	8.4	170.96	-170.7	209.5	361.4	347.6	13.77	26.243		
3,800.0	3,734.9	3,785.8	3,769.9	13.1	8.6	170.77	-176.6	218.1	373.8	359.6	14.17	26.387		
3,900.0	3,832.5	3,885.0	3,868.6	13.6	8.9	170.58	-182.5	226.6	386.2	371.7	14.56	26.522		
4,000.0	3,930.1	3,984.2	3,967.2	14.0	9.1	170.41	-188.4	235.2	398.6	383.7	14.96	26.650		
4,100.0	4,027.7	4,083.4	4,065.9	14.4	9.4	170.25	-194.3	243.8	411.1	395.7	15.35	26.771		
4,200.0	4,125.2	4,182.7	4,164.6	14.8	9.6	170.10	-200.1	252.4	423.5	407.7	15.75	26.886		
4,300.0	4,222.8	4,281.9	4,263.2	15.3	9.9	169.96	-206.0	260.9	435.9	419.8	16.15	26.996		
4,400.0	4,320.4	4,381.1	4,361.9	15.7	10.1	169.82	-211.9	269.5	448.4	431.8	16.55	27.099		
4,500.0	4,417.9	4,480.3	4,460.6	16.1	10.4	169.69	-217.8	278.1	460.8	443.9	16.94	27.198		
4,600.0	4,515.5	4,579.5	4,559.3	16.5	10.6	169.57	-223.7	286.7	473.2	455.9	17.34	27.293		
4,700.0	4,613.1	4,678.7	4,657.9	17.0	10.9	169.46	-229.5	295.3	485.7	467.9	17.74	27.383		
4,800.0	4,710.6	4,778.0	4,756.6	17.4	11.1	169.35	-235.4	303.8	498.1	480.0	18.13	27.469		
4,900.0	4,808.2	4,877.2	4,855.3	17.8	11.4	169.25	-241.3	312.4	510.6	492.0	18.53	27.551		
5,000.0	4,905.8	4,976.4	4,954.0	18.3	11.6	169.15	-247.2	321.0	523.0	504.1	18.93	27.629		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,075.6	5,052.6	18.7	11.9	169.05	-253.1	329.6	535.4	516.1	19.33	27.705		
5,200.0	5,100.9	5,174.8	5,151.3	19.1	12.1	168.96	-259.0	338.1	547.9	528.2	19.72	27.777		
5,300.0	5,198.5	5,274.1	5,250.0	19.5	12.4	168.88	-264.8	346.7	560.3	540.2	20.12	27.846		
5,400.0	5,296.1	5,373.3	5,348.6	20.0	12.6	168.79	-270.7	355.3	572.8	552.3	20.52	27.913		
5,500.0	5,393.6	5,472.5	5,447.3	20.4	12.9	168.72	-276.6	363.9	585.2	564.3	20.92	27.977		
5,600.0	5,491.2	5,571.7	5,546.0	20.8	13.1	168.64	-282.5	372.4	597.7	576.4	21.32	28.038		
5,700.0	5,588.8	5,670.9	5,644.7	21.2	13.4	168.57	-288.4	381.0	610.2	588.4	21.72	28.098		
5,800.0	5,686.3	5,770.2	5,743.3	21.7	13.6	168.50	-294.2	389.6	622.6	600.5	22.11	28.155		
5,900.0	5,783.9	5,869.4	5,842.0	22.1	13.9	168.43	-300.1	398.2	635.1	612.5	22.51	28.210		
6,000.0	5,881.5	5,968.6	5,940.7	22.5	14.1	168.37	-306.0	406.8	647.5	624.6	22.91	28.263		
6,100.0	5,979.0	6,067.8	6,039.3	22.9	14.4	168.31	-311.9	415.3	660.0	636.7	23.31	28.314		
6,200.0	6,076.6	6,167.0	6,138.0	23.4	14.6	168.25	-317.8	423.9	672.4	648.7	23.71	28.363		
6,300.0	6,174.2	6,266.2	6,236.7	23.8	14.9	168.19	-323.7	432.5	684.9	660.8	24.11	28.411		
6,400.0	6,271.7	6,365.5	6,335.4	24.2	15.1	168.13	-329.5	441.1	697.3	672.8	24.51	28.457		
6,500.0	6,369.3	6,464.7	6,434.0	24.7	15.4	168.08	-335.4	449.6	709.8	684.9	24.90	28.502		
6,600.0	6,466.9	6,563.9	6,532.7	25.1	15.6	168.03	-341.3	458.2	722.3	697.0	25.30	28.545		
6,700.0	6,564.5	6,663.1	6,631.4	25.5	15.9	167.98	-347.2	466.8	734.7	709.0	25.70	28.587		
6,800.0	6,662.0	6,762.3	6,730.1	25.9	16.1	167.93	-353.1	475.4	747.2	721.1	26.10	28.628		
6,900.0	6,759.6	6,855.4	6,822.7	26.4	16.3	169.83	-354.3	483.5	760.0	733.6	26.35	28.838		
7,000.0	6,857.3	6,946.1	6,912.4	26.7	16.4	-152.64	-344.1	491.4	773.1	746.8	26.37	29.314		
7,100.0	6,953.8	7,036.0	6,999.3	27.0	16.5	-126.37	-322.8	499.2	785.9	759.6	26.30	29.886		
7,200.0	7,047.4	7,125.2	7,082.3	27.3	16.5	-112.00	-291.0	506.7	798.0	771.8	26.17	30.495		
7,300.0	7,136.1	7,213.9	7,160.2	27.5	16.5	-103.67	-249.4	513.9	809.2	783.1	26.04	31.078		
7,400.0	7,218.3	7,300.0	7,230.4	27.6	16.4	-98.40	-200.1	520.5	819.2	793.2	25.96	31.556		
7,500.0	7,292.4	7,390.4	7,297.2	27.7	16.4	-94.87	-139.6	526.8	827.8	801.9	25.98	31.869		
7,600.0	7,356.9	7,478.5	7,354.5	27.9	16.5	-92.47	-72.9	532.4	835.0	808.8	26.16	31.919		
7,700.0	7,410.5	7,566.8	7,403.3	28.1	16.7	-90.88	0.5	537.3	840.4	813.9	26.54	31.671		
7,800.0	7,452.2	7,655.4	7,442.8	28.3	16.9	-89.93	79.5	541.5	844.2	817.0	27.16	31.075		
7,900.0	7,481.2	7,744.3	7,472.4	28.5	17.3	-89.52	163.3	544.8	846.1	818.0	28.06	30.154		
8,000.0	7,497.0	7,833.8	7,491.6	28.9	17.8	-89.59	250.6	547.2	846.1	816.9	29.23	28.950		
8,100.0	7,500.0	7,923.9	7,499.7	29.2	18.4	-89.98	340.3	548.7	844.6	813.9	30.65	27.551		
8,200.0	7,500.0	8,021.8	7,500.0	29.7	19.2	-90.00	438.2	549.6	843.1	810.6	32.52	25.924		
8,300.0	7,500.0	8,121.8	7,500.0	30.3	20.1	-90.00	538.2	550.5	841.7	807.0	34.69	24.266		
8,400.0	7,500.0	8,221.8	7,500.0	31.0	21.1	-90.00	638.2	551.4	840.3	803.3	37.06	22.675		
8,500.0	7,500.0	8,321.8	7,500.0	31.7	22.2	-90.00	738.1	552.2	838.9	799.3	39.60	21.186		
8,600.0	7,500.0	8,421.8	7,500.0	32.5	23.4	-90.00	838.1	553.1	837.5	795.3	42.28	19.810		
8,700.0	7,500.0	8,521.8	7,500.0	33.4	24.7	-90.00	938.1	554.0	836.2	791.1	45.07	18.552		
8,800.0	7,500.0	8,621.8	7,500.0	34.4	26.0	-90.00	1,038.1	554.8	834.8	786.8	47.96	17.406		
8,900.0	7,500.0	8,721.8	7,500.0	35.4	27.4	-90.00	1,138.1	555.7	833.4	782.4	50.92	16.365		
9,000.0	7,500.0	8,821.8	7,500.0	36.5	28.8	-90.00	1,238.1	556.6	832.0	778.0	53.95	15.420		
9,100.0	7,500.0	8,921.7	7,500.0	37.6	30.3	-90.00	1,338.1	557.5	830.6	773.5	57.04	14.561		
9,200.0	7,500.0	9,021.7	7,500.0	38.8	31.7	-90.00	1,438.0	558.3	829.2	769.0	60.17	13.780		
9,300.0	7,500.0	9,121.7	7,500.0	40.0	33.2	-90.00	1,538.0	559.2	827.8	764.4	63.34	13.068		
9,400.0	7,500.0	9,221.7	7,500.0	41.3	34.8	-90.00	1,638.0	560.1	826.4	759.8	66.55	12.418		
9,500.0	7,500.0	9,321.7	7,500.0	42.6	36.3	-90.00	1,738.0	561.0	825.0	755.2	69.78	11.822		
9,600.0	7,500.0	9,421.7	7,500.0	43.9	37.9	-90.00	1,838.0	561.8	823.6	750.5	73.04	11.276		
9,700.0	7,500.0	9,521.7	7,500.0	45.2	39.5	-90.00	1,938.0	562.7	822.2	745.9	76.32	10.773		
9,800.0	7,500.0	9,621.7	7,500.0	46.6	41.1	-90.00	2,038.0	563.6	820.8	741.2	79.62	10.309		
9,900.0	7,500.0	9,721.7	7,500.0	48.0	42.7	-90.00	2,138.0	564.4	819.4	736.5	82.94	9.879		
10,000.0	7,500.0	9,817.0	7,500.0	49.5	44.2	-90.00	2,233.2	565.2	818.1	732.1	86.01	9.512		
10,053.9	7,500.0	9,864.1	7,500.0	50.2	45.0	-90.00	2,280.4	565.1	817.9	730.5	87.43	9.354		
10,100.0	7,500.0	9,907.5	7,500.0	50.9	45.7	-90.00	2,323.8	564.8	818.0	729.2	88.82	9.209		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,200.0	7,500.0	10,007.5	7,500.0	52.4	47.3	-90.00	2,423.8	563.9	818.3	726.2	92.18	8.878		
10,300.0	7,500.0	10,107.5	7,500.0	53.9	49.0	-90.00	2,523.8	563.1	818.7	723.1	95.55	8.568		
10,400.0	7,500.0	10,207.5	7,500.0	55.4	50.6	-90.00	2,623.8	562.2	819.0	720.1	98.92	8.279		
10,500.0	7,500.0	10,307.5	7,500.0	56.9	52.3	-90.00	2,723.8	561.4	819.3	717.0	102.31	8.009		
10,600.0	7,500.0	10,407.5	7,500.0	58.4	53.9	-90.00	2,823.8	560.5	819.7	714.0	105.70	7.755		
10,700.0	7,500.0	10,507.5	7,500.0	60.0	55.6	-90.00	2,923.8	559.7	820.0	710.9	109.10	7.516		
10,800.0	7,500.0	10,607.5	7,500.0	61.5	57.3	-90.00	3,023.8	558.8	820.3	707.8	112.51	7.291		
10,900.0	7,500.0	10,707.5	7,500.0	63.1	58.9	-90.00	3,123.8	558.0	820.6	704.7	115.92	7.079		
11,000.0	7,500.0	10,807.5	7,500.0	64.7	60.6	-90.00	3,223.8	557.1	821.0	701.6	119.34	6.879		
11,100.0	7,500.0	10,907.5	7,500.0	66.2	62.3	-90.00	3,323.8	556.3	821.3	698.5	122.76	6.690		
11,200.0	7,500.0	11,007.5	7,500.0	67.8	64.0	-90.00	3,423.8	555.4	821.6	695.4	126.19	6.511		
11,300.0	7,500.0	11,107.5	7,500.0	69.4	65.7	-90.00	3,523.8	554.6	822.0	692.3	129.62	6.341		
11,400.0	7,500.0	11,207.5	7,500.0	71.0	67.4	-90.00	3,623.8	553.7	822.3	689.2	133.06	6.180		
11,500.0	7,500.0	11,307.5	7,500.0	72.7	69.1	-90.00	3,723.8	552.8	822.6	686.1	136.50	6.027		
11,600.0	7,500.0	11,407.5	7,500.0	74.3	70.8	-90.00	3,823.8	552.0	823.0	683.0	139.94	5.881		
11,700.0	7,500.0	11,507.5	7,500.0	75.9	72.5	-90.00	3,923.7	551.1	823.3	679.9	143.39	5.742		
11,800.0	7,500.0	11,607.5	7,500.0	77.5	74.2	-90.00	4,023.7	550.3	823.6	676.8	146.84	5.609		
11,900.0	7,500.0	11,707.5	7,500.0	79.2	75.9	-90.00	4,123.7	549.4	823.9	673.7	150.29	5.482		
12,000.0	7,500.0	11,807.5	7,500.0	80.8	77.6	-90.00	4,223.7	548.6	824.7	670.9	153.74	5.364		
12,023.9	7,500.0	11,831.4	7,500.0	81.2	78.0	-90.00	4,247.6	548.4	824.9	670.3	154.57	5.337 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	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			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	-89.36	0.3	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.36	0.3	-29.9	29.9	29.6	0.30	100.905		
200.0	200.0	200.0	200.0	0.3	0.3	-89.36	0.3	-29.9	29.9	29.3	0.65	46.362 CC		
200.0	200.0	200.0	200.0	0.3	0.3	-89.36	0.3	-29.9	29.9	29.3	0.65	46.351		
300.0	300.0	300.0	300.0	0.5	0.5	93.97	0.3	-29.9	30.0	29.0	1.00	30.054 ES		
400.0	399.8	399.8	399.8	0.7	0.7	103.70	0.3	-29.9	30.8	29.5	1.37	22.550		
500.0	499.6	499.6	499.6	0.9	0.8	128.91	0.3	-29.9	34.0	32.2	1.73	19.602		
600.0	599.3	600.0	600.0	1.1	1.0	149.26	-0.1	-29.2	38.7	36.6	2.09	18.537		
700.0	699.0	700.5	700.5	1.3	1.2	164.57	-1.4	-26.9	43.6	41.2	2.43	17.903		
800.0	798.6	801.2	801.1	1.6	1.4	175.70	-3.6	-23.1	48.3	45.5	2.78	17.386		
900.0	898.0	902.0	901.6	1.8	1.6	-176.42	-6.6	-17.7	52.6	49.5	3.12	16.874		
1,000.0	997.3	1,002.8	1,002.2	2.0	1.8	-171.00	-10.6	-10.8	56.5	53.1	3.46	16.333		
1,100.0	1,096.5	1,103.8	1,102.7	2.3	2.0	-167.48	-15.4	-2.3	60.0	56.2	3.81	15.764		
1,200.0	1,195.4	1,204.7	1,202.9	2.6	2.2	-165.47	-21.1	7.7	63.0	58.9	4.15	15.182		
1,300.0	1,294.1	1,304.6	1,302.1	2.9	2.5	-164.81	-27.0	18.1	66.7	62.2	4.50	14.835		
1,400.0	1,392.5	1,404.4	1,401.2	3.2	2.7	-165.22	-33.0	28.6	71.9	67.1	4.85	14.838		
1,500.0	1,490.6	1,504.1	1,500.1	3.6	3.0	-166.35	-39.0	39.1	78.7	73.5	5.20	15.140		
1,600.0	1,588.4	1,603.6	1,598.9	4.0	3.3	-167.87	-44.9	49.5	87.1	81.5	5.55	15.695		
1,700.0	1,686.0	1,703.1	1,697.6	4.4	3.5	-170.55	-50.8	60.0	96.7	90.8	5.91	16.364		
1,800.0	1,783.6	1,802.5	1,796.3	4.8	3.8	-172.90	-56.8	70.4	106.4	100.2	6.27	16.978		
1,900.0	1,881.1	1,901.9	1,895.0	5.2	4.0	-174.86	-62.7	80.8	116.4	109.7	6.64	17.536		
2,000.0	1,978.7	2,001.4	1,993.8	5.6	4.3	-176.50	-68.7	91.3	126.4	119.4	7.01	18.042		
2,100.0	2,076.3	2,100.8	2,092.5	6.0	4.6	-177.91	-74.6	101.7	136.6	129.2	7.38	18.502		
2,200.0	2,173.8	2,200.2	2,191.2	6.4	4.8	-179.11	-80.5	112.1	146.8	139.0	7.76	18.920		
2,300.0	2,271.4	2,299.7	2,289.9	6.8	5.1	179.83	-86.5	122.6	157.0	148.9	8.14	19.300		
2,400.0	2,369.0	2,399.1	2,388.6	7.2	5.4	178.91	-92.4	133.0	167.3	158.8	8.52	19.647		
2,500.0	2,466.5	2,498.5	2,487.3	7.7	5.6	178.10	-98.4	143.4	177.7	168.8	8.90	19.965		
2,600.0	2,564.1	2,598.0	2,586.0	8.1	5.9	177.37	-104.3	153.9	188.1	178.8	9.28	20.257		
2,700.0	2,661.7	2,697.4	2,684.7	8.5	6.2	176.72	-110.2	164.3	198.5	188.8	9.67	20.525		
2,800.0	2,759.2	2,796.8	2,783.4	8.9	6.4	176.14	-116.2	174.7	208.9	198.8	10.06	20.773		
2,900.0	2,856.8	2,896.3	2,882.1	9.3	6.7	175.61	-122.1	185.2	219.3	208.9	10.44	21.002		
3,000.0	2,954.4	2,995.7	2,980.8	9.8	7.0	175.13	-128.1	195.6	229.8	219.0	10.83	21.214		
3,100.0	3,052.0	3,095.1	3,079.5	10.2	7.3	174.69	-134.0	206.1	240.3	229.1	11.22	21.411		
3,200.0	3,149.5	3,194.6	3,178.2	10.6	7.5	174.29	-139.9	216.5	250.8	239.2	11.61	21.595		
3,300.0	3,247.1	3,294.0	3,276.9	11.0	7.8	173.92	-145.9	226.9	261.3	249.3	12.00	21.766		
3,400.0	3,344.7	3,393.4	3,375.6	11.4	8.1	173.58	-151.8	237.4	271.8	259.4	12.40	21.926		
3,500.0	3,442.2	3,492.9	3,474.3	11.9	8.3	173.26	-157.8	247.8	282.3	269.5	12.79	22.076		
3,600.0	3,539.8	3,592.3	3,573.0	12.3	8.6	172.97	-163.7	258.2	292.8	279.7	13.18	22.217		
3,700.0	3,637.4	3,691.7	3,671.8	12.7	8.9	172.70	-169.6	268.7	303.4	289.8	13.57	22.350		
3,800.0	3,734.9	3,791.2	3,770.5	13.1	9.1	172.44	-175.6	279.1	313.9	300.0	13.97	22.474		
3,900.0	3,832.5	3,890.6	3,869.2	13.6	9.4	172.20	-181.5	289.5	324.5	310.1	14.36	22.592		
4,000.0	3,930.1	3,990.0	3,967.9	14.0	9.7	171.98	-187.5	300.0	335.0	320.3	14.76	22.703		
4,100.0	4,027.7	4,089.5	4,066.6	14.4	10.0	171.77	-193.4	310.4	345.6	330.4	15.15	22.809		
4,200.0	4,125.2	4,188.9	4,165.3	14.8	10.2	171.57	-199.3	320.8	356.1	340.6	15.55	22.908		
4,300.0	4,222.8	4,288.3	4,264.0	15.3	10.5	171.39	-205.3	331.3	366.7	350.8	15.94	23.003		
4,400.0	4,320.4	4,387.8	4,362.7	15.7	10.8	171.21	-211.2	341.7	377.3	360.9	16.34	23.093		
4,500.0	4,417.9	4,487.2	4,461.4	16.1	11.0	171.05	-217.2	352.1	387.8	371.1	16.73	23.178		
4,600.0	4,515.5	4,586.6	4,560.1	16.5	11.3	170.89	-223.1	362.6	398.4	381.3	17.13	23.260		
4,700.0	4,613.1	4,686.1	4,658.8	17.0	11.6	170.74	-229.0	373.0	409.0	391.5	17.53	23.337		
4,800.0	4,710.6	4,785.5	4,757.5	17.4	11.9	170.60	-235.0	383.4	419.6	401.7	17.92	23.411		
4,900.0	4,808.2	4,884.9	4,856.2	17.8	12.1	170.47	-240.9	393.9	430.2	411.8	18.32	23.482		
5,000.0	4,905.8	4,984.4	4,954.9	18.3	12.4	170.34	-246.9	404.3	440.8	422.0	18.72	23.550		

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 4U-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 4U-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 #2	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			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,100.0	5,003.3	5,083.8	5,053.6	18.7	12.7	170.22	-252.8	414.7	451.3	432.2	19.11	23.615			
5,200.0	5,100.9	5,183.2	5,152.3	19.1	13.0	170.10	-258.7	425.2	461.9	442.4	19.51	23.677			
5,300.0	5,198.5	5,282.7	5,251.0	19.5	13.2	169.99	-264.7	435.6	472.5	452.6	19.91	23.736			
5,400.0	5,296.1	5,382.1	5,349.8	20.0	13.5	169.88	-270.6	446.0	483.1	462.8	20.30	23.793			
5,500.0	5,393.6	5,481.5	5,448.5	20.4	13.8	169.78	-276.5	456.5	493.7	473.0	20.70	23.848			
5,600.0	5,491.2	5,581.0	5,547.2	20.8	14.0	169.68	-282.5	466.9	504.3	483.2	21.10	23.901			
5,700.0	5,588.8	5,680.4	5,645.9	21.2	14.3	169.59	-288.4	477.4	514.9	493.4	21.50	23.951			
5,800.0	5,686.3	5,779.8	5,744.6	21.7	14.6	169.50	-294.4	487.8	525.5	503.6	21.90	24.000			
5,900.0	5,783.9	5,879.3	5,843.3	22.1	14.9	169.41	-300.3	498.2	536.1	513.8	22.29	24.047			
6,000.0	5,881.5	5,978.7	5,942.0	22.5	15.1	169.33	-306.2	508.7	546.7	524.0	22.69	24.092			
6,100.0	5,979.0	6,078.1	6,040.7	22.9	15.4	169.25	-312.2	519.1	557.3	534.2	23.09	24.136			
6,200.0	6,076.6	6,177.6	6,139.4	23.4	15.7	169.18	-318.1	529.5	567.9	544.4	23.49	24.178			
6,300.0	6,174.2	6,277.0	6,238.1	23.8	15.9	169.10	-324.1	540.0	578.5	554.6	23.89	24.219			
6,400.0	6,271.7	6,376.4	6,336.8	24.2	16.2	169.03	-330.0	550.4	589.1	564.8	24.29	24.258			
6,500.0	6,369.3	6,475.9	6,435.5	24.7	16.5	168.96	-335.9	560.8	599.7	575.0	24.68	24.296			
6,600.0	6,466.9	6,575.3	6,534.2	25.1	16.8	168.90	-341.9	571.3	610.3	585.2	25.08	24.333			
6,700.0	6,564.5	6,674.7	6,632.9	25.5	17.0	168.83	-347.8	581.7	620.9	595.5	25.48	24.369			
6,800.0	6,662.0	6,774.2	6,731.6	25.9	17.3	168.77	-353.8	592.1	631.5	605.7	25.88	24.403			
6,900.0	6,759.6	6,866.7	6,823.6	26.4	17.5	170.72	-355.0	601.9	642.6	616.5	26.11	24.607			
7,000.0	6,857.3	6,957.0	6,912.7	26.7	17.6	-151.78	-344.8	611.3	654.2	628.1	26.12	25.044			
7,100.0	6,953.8	7,046.3	6,999.0	27.0	17.7	-125.55	-323.6	620.4	665.5	639.5	26.06	25.541			
7,200.0	7,047.4	7,134.9	7,081.3	27.3	17.7	-111.24	-292.2	629.1	676.3	650.4	25.96	26.051			
7,300.0	7,136.1	7,223.0	7,158.7	27.5	17.7	-102.97	-251.0	637.3	686.4	660.5	25.88	26.520			
7,400.0	7,218.3	7,310.8	7,230.3	27.6	17.7	-97.77	-200.9	644.8	695.4	669.5	25.85	26.896			
7,500.0	7,292.4	7,400.0	7,296.2	27.7	17.8	-94.32	-141.2	651.8	703.3	677.3	25.93	27.125			
7,600.0	7,356.9	7,486.0	7,352.3	27.9	17.8	-92.00	-76.4	657.7	709.8	683.7	26.15	27.143			
7,700.0	7,410.5	7,573.7	7,401.1	28.1	18.0	-90.50	-3.8	662.9	714.9	688.4	26.54	26.937			
7,800.0	7,452.2	7,661.7	7,440.9	28.3	18.2	-89.64	74.6	667.1	718.5	691.3	27.17	26.442			
7,900.0	7,481.2	7,750.0	7,470.8	28.5	18.6	-89.31	157.5	670.3	720.5	692.5	28.02	25.709			
8,000.0	7,497.0	7,839.2	7,490.6	28.9	19.0	-89.47	244.4	672.4	720.9	691.8	29.14	24.735			
8,100.0	7,500.0	7,929.0	7,499.5	29.2	19.6	-89.96	333.7	673.3	719.9	689.4	30.51	23.599			
8,200.0	7,500.0	8,026.2	7,500.0	29.7	20.3	-90.00	430.8	673.4	719.4	687.0	32.31	22.262			
8,300.0	7,500.0	8,126.2	7,500.0	30.3	21.1	-90.00	530.8	673.4	718.8	684.4	34.45	20.867			
8,400.0	7,500.0	8,226.1	7,500.0	31.0	22.1	-90.00	630.8	673.4	718.3	681.5	36.79	19.523			
8,500.0	7,500.0	8,326.1	7,500.0	31.7	23.2	-90.00	730.8	673.4	717.8	678.5	39.31	18.258			
8,600.0	7,500.0	8,426.1	7,500.0	32.5	24.3	-90.00	830.8	673.4	717.3	675.3	41.97	17.088			
8,700.0	7,500.0	8,526.1	7,500.0	33.4	25.5	-90.00	930.8	673.4	716.7	672.0	44.75	16.015			
8,800.0	7,500.0	8,626.1	7,500.0	34.4	26.8	-90.00	1,030.8	673.4	716.2	668.6	47.63	15.038			
8,900.0	7,500.0	8,726.1	7,500.0	35.4	28.1	-90.00	1,130.8	673.4	715.7	665.1	50.58	14.149			
9,000.0	7,500.0	8,826.1	7,500.0	36.5	29.5	-90.00	1,230.8	673.4	715.2	661.6	53.61	13.341			
9,100.0	7,500.0	8,926.1	7,500.0	37.6	30.9	-90.00	1,330.8	673.4	714.6	658.0	56.68	12.608			
9,200.0	7,500.0	9,026.1	7,500.0	38.8	32.3	-90.00	1,430.8	673.4	714.1	654.3	59.81	11.940			
9,300.0	7,500.0	9,126.1	7,500.0	40.0	33.8	-90.00	1,530.8	673.4	713.6	650.6	62.97	11.332			
9,400.0	7,500.0	9,226.1	7,500.0	41.3	35.3	-90.00	1,630.8	673.4	713.1	646.9	66.17	10.776			
9,500.0	7,500.0	9,326.1	7,500.0	42.6	36.8	-90.00	1,730.8	673.4	712.5	643.1	69.40	10.267			
9,600.0	7,500.0	9,426.1	7,500.0	43.9	38.3	-90.00	1,830.8	673.4	712.0	639.4	72.66	9.799			
9,700.0	7,500.0	9,526.1	7,500.0	45.2	39.9	-90.00	1,930.8	673.4	711.5	635.6	75.94	9.369			
9,800.0	7,500.0	9,626.1	7,500.0	46.6	41.4	-90.00	2,030.8	673.4	711.0	631.7	79.24	8.973			
9,900.0	7,500.0	9,726.1	7,500.0	48.0	43.0	-90.00	2,130.8	673.4	710.4	627.9	82.55	8.606			
10,000.0	7,500.0	9,826.1	7,500.0	49.5	44.6	-90.00	2,230.8	673.4	709.9	624.0	85.88	8.266			
10,100.0	7,500.0	9,926.1	7,500.0	50.9	46.2	-90.00	2,330.8	673.4	709.4	620.2	89.23	7.951			
10,200.0	7,500.0	10,026.1	7,500.0	52.4	47.9	-90.00	2,430.8	673.4	708.9	616.3	92.58	7.657			

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 4U-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 4U-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 #2	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		
10,300.0	7,500.0	10,126.1	7,500.0	53.9	49.5	-90.00	2,530.8	673.4	708.4	612.4	95.95	7.383		
10,400.0	7,500.0	10,226.1	7,500.0	55.4	51.1	-90.00	2,630.8	673.4	707.8	608.5	99.33	7.126		
10,500.0	7,500.0	10,326.1	7,500.0	56.9	52.8	-90.00	2,730.8	673.4	707.3	604.6	102.71	6.886		
10,600.0	7,500.0	10,426.1	7,500.0	58.4	54.4	-90.00	2,830.8	673.4	706.8	600.7	106.11	6.661		
10,700.0	7,500.0	10,526.1	7,500.0	60.0	56.1	-90.00	2,930.8	673.4	706.3	596.8	109.51	6.449		
10,800.0	7,500.0	10,626.1	7,500.0	61.5	57.8	-90.00	3,030.8	673.4	705.7	592.8	112.92	6.250		
10,900.0	7,500.0	10,726.1	7,500.0	63.1	59.4	-90.00	3,130.8	673.4	705.2	588.9	116.33	6.062		
11,000.0	7,500.0	10,826.1	7,500.0	64.7	61.1	-90.00	3,230.8	673.4	704.7	584.9	119.75	5.885		
11,100.0	7,500.0	10,926.1	7,500.0	66.2	62.8	-90.00	3,330.8	673.4	704.2	581.0	123.17	5.717		
11,200.0	7,500.0	11,026.1	7,500.0	67.8	64.5	-90.00	3,430.8	673.4	703.6	577.0	126.60	5.558		
11,300.0	7,500.0	11,126.1	7,500.0	69.4	66.1	-90.00	3,530.8	673.4	703.1	573.1	130.03	5.407		
11,400.0	7,500.0	11,226.1	7,500.0	71.0	67.8	-90.00	3,630.8	673.4	702.6	569.1	133.47	5.264		
11,500.0	7,500.0	11,326.1	7,500.0	72.7	69.5	-90.00	3,730.8	673.4	702.1	565.2	136.91	5.128		
11,600.0	7,500.0	11,448.1	7,500.0	74.3	71.6	-90.00	3,852.8	675.0	700.3	558.5	141.77	4.939		
11,700.0	7,500.0	11,575.2	7,500.0	75.9	73.8	-90.00	3,979.6	681.4	694.7	547.9	146.80	4.732		
11,800.0	7,500.0	11,701.4	7,500.0	77.5	76.0	-90.00	4,105.4	692.8	685.2	533.6	151.60	4.520		
11,900.0	7,500.0	11,826.6	7,500.0	79.2	78.1	-90.00	4,229.5	708.8	671.9	515.7	156.15	4.303		
12,000.0	7,500.0	11,857.5	7,500.0	80.8	78.7	-90.00	4,260.1	713.3	660.5	504.4	156.12	4.231 SF		
12,023.9	7,500.0	11,857.5	7,500.0	81.2	78.7	-90.00	4,260.1	713.3	659.9	504.6	155.36	4.248		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.06	0.3	-19.9	19.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.06	0.3	-19.9	19.9	19.6	0.30	66.960		
200.0	200.0	200.0	200.0	0.3	0.3	-89.06	0.3	-19.9	19.9	19.2	0.65	30.766	CC	
200.0	200.0	200.0	200.0	0.3	0.3	-89.06	0.3	-19.9	19.9	19.2	0.65	30.765		
300.0	300.0	300.0	300.0	0.5	0.5	95.95	0.3	-19.9	20.0	19.0	1.00	20.003	ES	
400.0	399.8	399.8	399.8	0.7	0.7	110.15	0.3	-19.9	21.2	19.8	1.37	15.504		
500.0	499.6	500.0	500.0	0.9	0.8	138.99	0.0	-19.1	24.3	22.6	1.72	14.101		
600.0	599.3	600.3	600.2	1.1	1.0	161.27	-1.1	-16.7	28.2	26.2	2.07	13.632		
700.0	699.0	700.6	700.5	1.3	1.2	177.86	-2.9	-12.7	32.2	29.8	2.41	13.357		
800.0	798.6	801.1	800.7	1.6	1.4	-170.02	-5.4	-7.1	35.9	33.2	2.76	13.038		
900.0	898.0	901.6	900.9	1.8	1.6	-161.25	-8.6	0.2	39.2	36.1	3.11	12.612		
1,000.0	997.3	1,002.1	1,001.0	2.0	1.8	-154.96	-12.6	9.0	42.0	38.5	3.48	12.077		
1,100.0	1,096.5	1,102.7	1,101.0	2.3	2.1	-150.57	-17.2	19.4	44.2	40.3	3.86	11.456		
1,200.0	1,195.4	1,203.4	1,200.7	2.6	2.4	-147.66	-22.6	31.5	45.8	41.6	4.25	10.778		
1,300.0	1,294.1	1,303.6	1,299.9	2.9	2.6	-146.23	-28.6	44.7	47.2	42.6	4.65	10.153		
1,400.0	1,392.5	1,403.5	1,398.8	3.2	2.9	-146.81	-34.5	58.0	49.5	44.5	5.03	9.843		
1,500.0	1,490.6	1,503.4	1,497.6	3.6	3.2	-148.98	-40.4	71.3	52.9	47.6	5.38	9.850		
1,600.0	1,588.4	1,603.2	1,596.3	4.0	3.5	-152.19	-46.4	84.5	57.8	52.1	5.69	10.156		
1,700.0	1,686.0	1,702.9	1,694.9	4.4	3.8	-156.70	-52.3	97.8	63.8	57.8	6.00	10.642		
1,800.0	1,783.6	1,802.6	1,793.6	4.8	4.1	-160.57	-58.2	111.1	70.2	63.9	6.31	11.126		
1,900.0	1,881.1	1,902.3	1,892.2	5.2	4.4	-163.78	-64.2	124.3	76.9	70.2	6.63	11.591		
2,000.0	1,978.7	2,002.0	1,990.8	5.6	4.7	-166.48	-70.1	137.6	83.7	76.8	6.96	12.027		
2,100.0	2,076.3	2,101.7	2,089.5	6.0	5.0	-168.76	-76.0	150.8	90.7	83.4	7.30	12.432		
2,200.0	2,173.8	2,201.3	2,188.1	6.4	5.3	-170.72	-82.0	164.1	97.9	90.2	7.64	12.807		
2,300.0	2,271.4	2,301.0	2,286.7	6.8	5.6	-172.40	-87.9	177.4	105.1	97.1	7.99	13.152		
2,400.0	2,369.0	2,400.7	2,385.3	7.2	5.9	-173.87	-93.8	190.6	112.4	104.0	8.34	13.469		
2,500.0	2,466.5	2,500.4	2,484.0	7.7	6.2	-175.16	-99.8	203.9	119.8	111.1	8.70	13.760		
2,600.0	2,564.1	2,600.1	2,582.6	8.1	6.5	-176.30	-105.7	217.1	127.2	118.1	9.07	14.029		
2,700.0	2,661.7	2,699.8	2,681.2	8.5	6.8	-177.32	-111.6	230.4	134.7	125.2	9.43	14.276		
2,800.0	2,759.2	2,799.5	2,779.9	8.9	7.1	-178.22	-117.6	243.7	142.2	132.4	9.80	14.505		
2,900.0	2,856.8	2,899.2	2,878.5	9.3	7.4	-179.04	-123.5	256.9	149.7	139.5	10.17	14.716		
3,000.0	2,954.4	2,998.9	2,977.1	9.8	7.7	-179.78	-129.4	270.2	157.3	146.7	10.55	14.912		
3,100.0	3,052.0	3,098.6	3,075.8	10.2	8.0	179.55	-135.4	283.4	164.9	153.9	10.92	15.094		
3,200.0	3,149.5	3,198.3	3,174.4	10.6	8.3	178.94	-141.3	296.7	172.5	161.2	11.30	15.264		
3,300.0	3,247.1	3,298.0	3,273.0	11.0	8.7	178.38	-147.2	310.0	180.1	168.4	11.68	15.422		
3,400.0	3,344.7	3,397.7	3,371.6	11.4	9.0	177.87	-153.2	323.2	187.7	175.7	12.06	15.569		
3,500.0	3,442.2	3,497.4	3,470.3	11.9	9.3	177.40	-159.1	336.5	195.4	183.0	12.44	15.707		
3,600.0	3,539.8	3,597.1	3,568.9	12.3	9.6	176.96	-165.0	349.7	203.1	190.2	12.82	15.837		
3,700.0	3,637.4	3,696.8	3,667.5	12.7	9.9	176.55	-170.9	363.0	210.7	197.5	13.21	15.958		
3,800.0	3,734.9	3,796.5	3,766.2	13.1	10.2	176.17	-176.9	376.3	218.4	204.8	13.59	16.073		
3,900.0	3,832.5	3,896.1	3,864.8	13.6	10.5	175.82	-182.8	389.5	226.1	212.2	13.98	16.181		
4,000.0	3,930.1	3,995.8	3,963.4	14.0	10.8	175.49	-188.7	402.8	233.8	219.5	14.36	16.282		
4,100.0	4,027.7	4,095.5	4,062.1	14.4	11.1	175.19	-194.7	416.0	241.5	226.8	14.75	16.379		
4,200.0	4,125.2	4,195.2	4,160.7	14.8	11.4	174.90	-200.6	429.3	249.3	234.1	15.14	16.470		
4,300.0	4,222.8	4,294.9	4,259.3	15.3	11.7	174.63	-206.5	442.6	257.0	241.5	15.52	16.556		
4,400.0	4,320.4	4,394.6	4,357.9	15.7	12.0	174.37	-212.5	455.8	264.7	248.8	15.91	16.638		
4,500.0	4,417.9	4,494.3	4,456.6	16.1	12.3	174.13	-218.4	469.1	272.5	256.2	16.30	16.716		
4,600.0	4,515.5	4,594.0	4,555.2	16.5	12.6	173.90	-224.3	482.3	280.2	263.5	16.69	16.790		
4,700.0	4,613.1	4,693.7	4,653.8	17.0	13.0	173.69	-230.3	495.6	287.9	270.9	17.08	16.860		
4,800.0	4,710.6	4,793.4	4,752.5	17.4	13.3	173.48	-236.2	508.9	295.7	278.2	17.47	16.928		
4,900.0	4,808.2	4,893.1	4,851.1	17.8	13.6	173.29	-242.1	522.1	303.5	285.6	17.86	16.992		
5,000.0	4,905.8	4,992.8	4,949.7	18.3	13.9	173.11	-248.1	535.4	311.2	293.0	18.25	17.053		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,092.5	5,048.4	18.7	14.2	172.93	-254.0	548.6	319.0	300.3	18.64	17.112		
5,200.0	5,100.9	5,192.2	5,147.0	19.1	14.5	172.77	-259.9	561.9	326.7	307.7	19.03	17.168		
5,300.0	5,198.5	5,291.9	5,245.6	19.5	14.8	172.61	-265.9	575.2	334.5	315.1	19.42	17.222		
5,400.0	5,296.1	5,391.6	5,344.2	20.0	15.1	172.46	-271.8	588.4	342.3	322.4	19.81	17.273		
5,500.0	5,393.6	5,491.2	5,442.9	20.4	15.4	172.31	-277.7	601.7	350.0	329.8	20.21	17.323		
5,600.0	5,491.2	5,590.9	5,541.5	20.8	15.7	172.17	-283.7	614.9	357.8	337.2	20.60	17.370		
5,700.0	5,588.8	5,690.6	5,640.1	21.2	16.0	172.04	-289.6	628.2	365.6	344.6	20.99	17.416		
5,800.0	5,686.3	5,790.3	5,738.8	21.7	16.4	171.91	-295.5	641.5	373.3	352.0	21.38	17.460		
5,900.0	5,783.9	5,890.0	5,837.4	22.1	16.7	171.79	-301.4	654.7	381.1	359.3	21.78	17.502		
6,000.0	5,881.5	5,989.7	5,936.0	22.5	17.0	171.67	-307.4	668.0	388.9	366.7	22.17	17.543		
6,100.0	5,979.0	6,089.4	6,034.7	22.9	17.3	171.56	-313.3	681.2	396.7	374.1	22.56	17.582		
6,200.0	6,076.6	6,189.1	6,133.3	23.4	17.6	171.45	-319.2	694.5	404.5	381.5	22.95	17.620		
6,300.0	6,174.2	6,288.8	6,231.9	23.8	17.9	171.35	-325.2	707.8	412.2	388.9	23.35	17.656		
6,400.0	6,271.7	6,388.5	6,330.5	24.2	18.2	171.25	-331.1	721.0	420.0	396.3	23.74	17.692		
6,500.0	6,369.3	6,488.2	6,429.2	24.7	18.5	171.15	-337.0	734.3	427.8	403.7	24.14	17.726		
6,600.0	6,466.9	6,587.9	6,527.8	25.1	18.8	171.06	-343.0	747.5	435.6	411.1	24.53	17.759		
6,700.0	6,564.5	6,687.6	6,626.4	25.5	19.1	170.97	-348.9	760.8	443.4	418.5	24.92	17.791		
6,800.0	6,662.0	6,787.3	6,725.1	25.9	19.4	170.88	-354.8	774.1	451.2	425.9	25.32	17.822		
6,900.0	6,759.6	6,881.0	6,817.9	26.4	19.7	172.84	-356.9	786.5	459.5	433.9	25.56	17.976		
7,000.0	6,857.3	6,971.8	6,907.4	26.7	19.9	-149.72	-347.6	798.6	468.4	442.9	25.57	18.317		
7,100.0	6,953.8	7,061.9	6,994.2	27.0	20.0	-123.58	-327.2	810.3	477.1	451.6	25.56	18.667		
7,200.0	7,047.4	7,150.0	7,076.1	27.3	20.1	-109.40	-296.8	821.3	485.4	459.8	25.56	18.991		
7,300.0	7,136.1	7,240.1	7,155.4	27.5	20.1	-101.28	-255.4	831.9	492.9	467.3	25.58	19.269		
7,400.0	7,218.3	7,328.7	7,227.7	27.6	20.2	-96.25	-205.2	841.6	499.6	473.9	25.68	19.458		
7,500.0	7,292.4	7,417.1	7,293.2	27.7	20.2	-93.00	-146.6	850.5	505.3	479.4	25.87	19.535		
7,600.0	7,356.9	7,505.5	7,351.0	27.9	20.3	-90.89	-80.3	858.2	509.9	483.7	26.18	19.476		
7,700.0	7,410.5	7,594.1	7,400.4	28.1	20.5	-89.60	-7.1	864.9	513.4	486.7	26.65	19.265		
7,800.0	7,452.2	7,682.9	7,440.6	28.3	20.7	-88.96	71.9	870.3	515.6	488.3	27.31	18.881		
7,900.0	7,481.2	7,772.2	7,470.9	28.5	21.0	-88.87	155.7	874.3	516.5	488.4	28.17	18.340		
8,000.0	7,497.0	7,862.0	7,490.7	28.9	21.4	-89.25	243.2	877.0	516.3	487.1	29.24	17.656		
8,100.0	7,500.0	7,952.6	7,499.6	29.2	21.9	-89.95	333.3	878.2	515.1	484.5	30.54	16.863		
8,200.0	7,500.0	8,050.2	7,500.0	29.7	22.6	-90.00	430.8	878.3	514.5	482.1	32.34	15.907		
8,300.0	7,500.0	8,150.2	7,500.0	30.3	23.4	-90.00	530.8	878.3	513.9	479.5	34.47	14.908		
8,400.0	7,500.0	8,250.2	7,500.0	31.0	24.2	-90.00	630.8	878.3	513.4	476.6	36.82	13.944		
8,500.0	7,500.0	8,350.2	7,500.0	31.7	25.2	-90.00	730.8	878.3	512.9	473.6	39.34	13.039		
8,600.0	7,500.0	8,450.1	7,500.0	32.5	26.2	-90.00	830.8	878.3	512.4	470.4	42.00	12.200		
8,700.0	7,500.0	8,550.1	7,500.0	33.4	27.4	-90.00	930.8	878.3	511.8	467.1	44.77	11.432		
8,800.0	7,500.0	8,650.1	7,500.0	34.4	28.5	-90.00	1,030.8	878.3	511.3	463.7	47.65	10.731		
8,900.0	7,500.0	8,750.1	7,500.0	35.4	29.8	-90.00	1,130.8	878.3	510.8	460.2	50.60	10.094		
9,000.0	7,500.0	8,850.1	7,500.0	36.5	31.1	-90.00	1,230.8	878.3	510.3	456.6	53.62	9.516		
9,100.0	7,500.0	8,950.1	7,500.0	37.6	32.4	-90.00	1,330.8	878.3	509.7	453.0	56.70	8.990		
9,200.0	7,500.0	9,050.1	7,500.0	38.8	33.8	-90.00	1,430.8	878.3	509.2	449.4	59.83	8.512		
9,300.0	7,500.0	9,150.1	7,500.0	40.0	35.2	-90.00	1,530.8	878.3	508.7	445.7	62.99	8.076		
9,400.0	7,500.0	9,250.1	7,500.0	41.3	36.6	-90.00	1,630.8	878.3	508.2	442.0	66.19	7.677		
9,500.0	7,500.0	9,350.1	7,500.0	42.6	38.1	-90.00	1,730.8	878.3	507.7	438.2	69.42	7.313		
9,600.0	7,500.0	9,450.1	7,500.0	43.9	39.6	-90.00	1,830.8	878.3	507.1	434.5	72.68	6.978		
9,700.0	7,500.0	9,550.1	7,500.0	45.2	41.1	-90.00	1,930.8	878.3	506.6	430.7	75.95	6.670		
9,800.0	7,500.0	9,650.1	7,500.0	46.6	42.6	-90.00	2,030.8	878.3	506.1	426.8	79.25	6.386		
9,900.0	7,500.0	9,750.1	7,500.0	48.0	44.2	-90.00	2,130.8	878.3	505.6	423.0	82.57	6.123		
10,000.0	7,500.0	9,850.1	7,500.0	49.5	45.7	-90.00	2,230.8	878.3	505.0	419.1	85.90	5.880		
10,100.0	7,500.0	9,950.1	7,500.0	50.9	47.3	-90.00	2,330.8	878.3	504.5	415.3	89.24	5.653		
10,200.0	7,500.0	10,050.1	7,500.0	52.4	48.9	-90.00	2,430.8	878.3	504.0	411.4	92.60	5.443		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,300.0	7,500.0	10,150.1	7,500.0	53.9	50.5	-90.00	2,530.8	878.3	503.5	407.5	95.96	5.246		
10,400.0	7,500.0	10,250.1	7,500.0	55.4	52.1	-90.00	2,630.8	878.3	502.9	403.6	99.34	5.063		
10,500.0	7,500.0	10,350.1	7,500.0	56.9	53.7	-90.00	2,730.8	878.3	502.4	399.7	102.73	4.891		
10,600.0	7,500.0	10,450.1	7,500.0	58.4	55.3	-90.00	2,830.8	878.3	501.9	395.8	106.12	4.730		
10,700.0	7,500.0	10,550.1	7,500.0	60.0	57.0	-90.00	2,930.8	878.3	501.4	391.8	109.52	4.578		
10,800.0	7,500.0	10,650.1	7,500.0	61.5	58.6	-90.00	3,030.8	878.3	500.8	387.9	112.93	4.435		
10,900.0	7,500.0	10,750.1	7,500.0	63.1	60.2	-90.00	3,130.8	878.3	500.3	384.0	116.34	4.301		
11,000.0	7,500.0	10,850.1	7,500.0	64.7	61.9	-90.00	3,230.8	878.3	499.8	380.0	119.76	4.173		
11,100.0	7,500.0	10,950.1	7,500.0	66.2	63.5	-90.00	3,330.8	878.3	499.3	376.1	123.18	4.053		
11,200.0	7,500.0	11,050.1	7,500.0	67.8	65.2	-90.00	3,430.8	878.3	498.8	372.1	126.61	3.939		
11,300.0	7,500.0	11,150.1	7,500.0	69.4	66.9	-90.00	3,530.8	878.3	498.2	368.2	130.04	3.831		
11,400.0	7,500.0	11,250.1	7,500.0	71.0	68.5	-90.00	3,630.8	878.3	497.7	364.2	133.48	3.729		
11,500.0	7,500.0	11,350.1	7,500.0	72.7	70.2	-90.00	3,730.8	878.3	497.2	360.3	136.92	3.631		
11,600.0	7,500.0	11,450.1	7,500.0	74.3	71.9	-90.00	3,830.8	878.3	496.7	356.3	140.36	3.538		
11,700.0	7,500.0	11,550.1	7,500.0	75.9	73.6	-90.00	3,930.8	878.3	496.1	352.3	143.81	3.450		
11,800.0	7,500.0	11,650.1	7,500.0	77.5	75.3	-90.00	4,030.8	878.3	495.6	348.3	147.26	3.366		
11,900.0	7,500.0	11,750.1	7,500.0	79.2	77.0	-90.00	4,130.8	878.3	495.1	344.4	150.71	3.285		
11,983.3	7,500.0	11,833.4	7,500.0	80.5	78.4	-90.00	4,214.1	878.3	494.9	341.3	153.59	3.222		
12,000.0	7,500.0	11,850.1	7,500.0	80.8	78.7	-90.00	4,230.8	878.3	495.0	340.8	154.17	3.211		
12,023.9	7,500.0	11,874.0	7,500.0	81.2	79.1	-90.00	4,254.7	878.3	495.0	340.0	154.99	3.194 SF		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4T-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-87.70	0.4	-9.8	9.8					
100.0	100.0	100.0	100.0	0.1	0.1	-87.70	0.4	-9.8	9.8	9.5	0.30	33.031		
200.0	200.0	200.0	200.0	0.3	0.3	-87.70	0.4	-9.8	9.8	9.2	0.65	15.176	CC	
201.4	201.4	201.4	201.4	0.3	0.3	92.30	0.4	-9.8	9.8	9.1	0.65	15.063		
300.0	300.0	300.0	300.0	0.5	0.5	102.31	0.4	-9.8	10.0	9.0	1.00	10.040	ES	
400.0	399.8	399.9	399.9	0.7	0.7	127.24	0.3	-9.6	12.1	10.7	1.36	8.865		
500.0	499.6	499.9	499.9	0.9	0.8	161.29	-0.3	-7.9	16.3	14.6	1.70	9.541		
600.0	599.3	600.0	599.9	1.1	1.0	-175.88	-1.4	-4.7	21.0	19.0	2.05	10.268		
700.0	699.0	700.1	699.9	1.3	1.2	-159.70	-3.2	0.3	25.7	23.2	2.41	10.660		
800.0	798.6	800.3	799.9	1.6	1.4	-147.93	-5.5	6.9	29.8	27.0	2.78	10.718		
900.0	898.0	900.5	899.7	1.8	1.6	-139.22	-8.5	15.1	33.5	30.3	3.19	10.508		
1,000.0	997.3	1,000.8	999.4	2.0	1.9	-132.68	-12.0	25.0	36.5	32.9	3.62	10.096		
1,100.0	1,096.5	1,101.1	1,098.9	2.3	2.1	-127.72	-16.1	36.5	39.0	34.9	4.09	9.539		
1,200.0	1,195.4	1,201.4	1,198.3	2.6	2.4	-123.92	-20.8	49.7	40.9	36.3	4.60	8.886		
1,300.0	1,294.1	1,301.7	1,297.4	2.9	2.7	-121.03	-26.1	64.5	42.1	37.0	5.15	8.176		
1,400.0	1,392.5	1,402.0	1,396.1	3.2	3.0	-119.02	-31.9	80.8	42.8	37.1	5.74	7.461		
1,500.0	1,490.6	1,501.9	1,494.5	3.6	3.4	-119.23	-37.8	97.4	43.5	37.2	6.30	6.916		
1,600.0	1,588.4	1,601.9	1,592.9	4.0	3.7	-121.84	-43.7	114.0	44.7	37.9	6.79	6.585		
1,700.0	1,686.0	1,701.8	1,691.2	4.4	4.0	-126.88	-49.6	130.5	46.4	39.2	7.20	6.451		
1,800.0	1,783.6	1,801.7	1,789.6	4.8	4.4	-131.70	-55.5	147.1	48.5	41.0	7.56	6.416		
1,900.0	1,881.1	1,901.6	1,887.9	5.2	4.7	-136.10	-61.4	163.7	50.9	43.0	7.89	6.452		
2,000.0	1,978.7	2,001.5	1,986.2	5.6	5.1	-140.09	-67.3	180.2	53.6	45.4	8.19	6.541		
2,100.0	2,076.3	2,101.4	2,084.6	6.0	5.4	-143.68	-73.3	196.8	56.5	48.0	8.48	6.666		
2,200.0	2,173.8	2,201.3	2,182.9	6.4	5.8	-146.91	-79.2	213.4	59.6	50.9	8.75	6.815		
2,300.0	2,271.4	2,301.2	2,281.2	6.8	6.1	-149.81	-85.1	229.9	62.9	53.9	9.01	6.979		
2,400.0	2,369.0	2,401.1	2,379.6	7.2	6.5	-152.41	-91.0	246.5	66.3	57.0	9.27	7.151		
2,500.0	2,466.5	2,501.0	2,477.9	7.7	6.8	-154.76	-96.9	263.1	69.8	60.3	9.53	7.327		
2,600.0	2,564.1	2,600.9	2,576.3	8.1	7.2	-156.88	-102.8	279.7	73.5	63.7	9.80	7.502		
2,700.0	2,661.7	2,700.8	2,674.6	8.5	7.5	-158.79	-108.7	296.2	77.2	67.2	10.07	7.673		
2,800.0	2,759.2	2,800.7	2,772.9	8.9	7.9	-160.53	-114.6	312.8	81.1	70.7	10.34	7.840		
2,900.0	2,856.8	2,900.6	2,871.3	9.3	8.2	-162.11	-120.5	329.4	85.0	74.3	10.62	8.001		
3,000.0	2,954.4	3,000.5	2,969.6	9.8	8.6	-163.55	-126.4	345.9	88.9	78.0	10.90	8.154		
3,100.0	3,052.0	3,100.4	3,067.9	10.2	8.9	-164.87	-132.3	362.5	92.9	81.7	11.19	8.300		
3,200.0	3,149.5	3,200.3	3,166.3	10.6	9.3	-166.07	-138.2	379.1	96.9	85.5	11.49	8.439		
3,300.0	3,247.1	3,300.2	3,264.6	11.0	9.6	-167.18	-144.1	395.6	101.0	89.2	11.79	8.570		
3,400.0	3,344.7	3,400.1	3,363.0	11.4	10.0	-168.21	-150.0	412.2	105.1	93.0	12.09	8.694		
3,500.0	3,442.2	3,500.0	3,461.3	11.9	10.3	-169.15	-155.9	428.8	109.3	96.9	12.40	8.810		
3,600.0	3,539.8	3,599.9	3,559.6	12.3	10.7	-170.03	-161.9	445.3	113.5	100.7	12.72	8.921		
3,700.0	3,637.4	3,699.8	3,658.0	12.7	11.1	-170.84	-167.8	461.9	117.7	104.6	13.04	9.025		
3,800.0	3,734.9	3,799.7	3,756.3	13.1	11.4	-171.60	-173.7	478.5	121.9	108.5	13.36	9.122		
3,900.0	3,832.5	3,899.5	3,854.6	13.6	11.8	-172.31	-179.6	495.1	126.1	112.4	13.69	9.215		
4,000.0	3,930.1	3,999.4	3,953.0	14.0	12.1	-172.97	-185.5	511.6	130.4	116.4	14.02	9.302		
4,100.0	4,027.7	4,099.3	4,051.3	14.4	12.5	-173.59	-191.4	528.2	134.7	120.3	14.35	9.384		
4,200.0	4,125.2	4,199.2	4,149.7	14.8	12.8	-174.17	-197.3	544.8	139.0	124.3	14.69	9.461		
4,300.0	4,222.8	4,299.1	4,248.0	15.3	13.2	-174.72	-203.2	561.3	143.3	128.2	15.03	9.534		
4,400.0	4,320.4	4,399.0	4,346.3	15.7	13.5	-175.23	-209.1	577.9	147.6	132.2	15.37	9.604		
4,500.0	4,417.9	4,498.9	4,444.7	16.1	13.9	-175.72	-215.0	594.5	151.9	136.2	15.71	9.669		
4,600.0	4,515.5	4,598.8	4,543.0	16.5	14.3	-176.18	-220.9	611.0	156.2	140.2	16.06	9.731		
4,700.0	4,613.1	4,698.7	4,641.3	17.0	14.6	-176.61	-226.8	627.6	160.6	144.2	16.40	9.789		
4,800.0	4,710.6	4,798.6	4,739.7	17.4	15.0	-177.02	-232.7	644.2	164.9	148.2	16.75	9.845		
4,900.0	4,808.2	4,898.5	4,838.0	17.8	15.3	-177.41	-238.6	660.7	169.3	152.2	17.11	9.898		
5,000.0	4,905.8	4,998.4	4,936.4	18.3	15.7	-177.78	-244.5	677.3	173.7	156.2	17.46	9.948		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4T-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,003.3	5,098.3	5,034.7	18.7	16.0	-178.13	-250.4	693.9	178.1	160.2	17.81	9.996		
5,200.0	5,100.9	5,198.2	5,133.0	19.1	16.4	-178.47	-256.4	710.5	182.4	164.3	18.17	10.041		
5,300.0	5,198.5	5,298.1	5,231.4	19.5	16.7	-178.78	-262.3	727.0	186.8	168.3	18.53	10.084		
5,400.0	5,296.1	5,398.0	5,329.7	20.0	17.1	-179.09	-268.2	743.6	191.2	172.4	18.89	10.126		
5,500.0	5,393.6	5,497.9	5,428.0	20.4	17.5	-179.38	-274.1	760.2	195.6	176.4	19.25	10.165		
5,600.0	5,491.2	5,597.8	5,526.4	20.8	17.8	-179.66	-280.0	776.7	200.0	180.4	19.61	10.203		
5,700.0	5,588.8	5,697.7	5,624.7	21.2	18.2	-179.92	-285.9	793.3	204.5	184.5	19.97	10.238		
5,800.0	5,686.3	5,797.6	5,723.1	21.7	18.5	179.82	-291.8	809.9	208.9	188.5	20.33	10.273		
5,900.0	5,783.9	5,897.5	5,821.4	22.1	18.9	179.58	-297.7	826.4	213.3	192.6	20.70	10.306		
6,000.0	5,881.5	5,997.4	5,917.7	22.5	19.2	179.34	-303.6	843.0	217.7	196.7	21.06	10.337		
6,100.0	5,979.0	6,097.3	6,018.1	22.9	19.6	179.12	-309.5	859.6	222.1	200.7	21.43	10.367		
6,200.0	6,076.6	6,197.2	6,116.4	23.4	19.9	178.90	-315.4	876.1	226.6	204.8	21.79	10.396		
6,300.0	6,174.2	6,297.1	6,214.7	23.8	20.3	178.69	-321.3	892.7	231.0	208.8	22.16	10.424		
6,400.0	6,271.7	6,397.0	6,313.1	24.2	20.7	178.49	-327.2	909.3	235.4	212.9	22.53	10.451		
6,500.0	6,369.3	6,496.9	6,411.4	24.7	21.0	178.30	-333.1	925.9	239.9	217.0	22.90	10.476		
6,600.0	6,466.9	6,596.8	6,509.8	25.1	21.4	178.12	-339.0	942.4	244.3	221.1	23.27	10.501		
6,700.0	6,564.5	6,696.7	6,608.1	25.5	21.7	177.94	-345.0	959.0	248.8	225.1	23.64	10.525		
6,800.0	6,662.0	6,796.6	6,706.4	25.9	22.1	177.76	-350.9	975.6	253.2	229.2	24.01	10.548		
6,900.0	6,759.6	6,892.3	6,800.7	26.4	22.4	179.55	-354.9	991.5	258.1	233.8	24.32	10.610		
7,000.0	6,857.3	6,983.7	6,890.5	26.7	22.7	-143.22	-348.3	1,006.7	263.8	239.3	24.53	10.755		
7,100.0	6,953.8	7,074.6	6,978.2	27.0	22.9	-117.39	-330.3	1,021.6	269.1	244.3	24.75	10.870		
7,200.0	7,047.4	7,165.0	7,062.6	27.3	23.0	-103.60	-301.3	1,036.1	273.7	248.7	25.00	10.949		
7,300.0	7,136.1	7,255.2	7,142.5	27.5	23.1	-95.95	-261.9	1,049.8	277.6	252.4	25.27	10.986		
7,400.0	7,218.3	7,345.3	7,216.8	27.6	23.2	-91.44	-212.7	1,062.7	280.8	255.2	25.59	10.973		
7,500.0	7,292.4	7,435.4	7,284.4	27.7	23.4	-88.76	-154.4	1,074.6	283.0	257.0	25.96	10.901		
7,600.0	7,356.9	7,525.7	7,344.4	27.9	23.5	-87.27	-87.8	1,085.2	284.4	257.9	26.41	10.766		
7,700.0	7,410.5	7,616.3	7,395.8	28.1	23.7	-86.64	-13.9	1,094.4	284.8	257.9	26.94	10.573		
7,800.0	7,452.2	7,707.3	7,437.7	28.3	23.9	-86.70	66.5	1,102.0	284.4	256.8	27.62	10.297		
7,900.0	7,481.2	7,800.0	7,469.8	28.5	24.2	-87.36	153.2	1,108.0	283.2	254.7	28.52	9.930		
8,000.0	7,497.0	7,891.2	7,490.2	28.9	24.6	-88.50	241.9	1,112.1	281.3	251.8	29.49	9.539		
8,100.0	7,500.0	7,984.3	7,499.5	29.2	25.1	-89.90	334.5	1,114.3	279.0	248.2	30.75	9.073		
8,200.0	7,500.0	8,082.6	7,500.0	29.7	25.7	-90.00	432.8	1,115.1	277.6	245.1	32.53	8.534		
8,300.0	7,500.0	8,182.6	7,500.0	30.3	26.3	-90.00	532.8	1,115.8	276.4	241.7	34.69	7.968		
8,400.0	7,500.0	8,282.6	7,500.0	31.0	27.1	-90.00	632.7	1,116.5	275.2	238.1	37.06	7.427		
8,500.0	7,500.0	8,382.6	7,500.0	31.7	28.0	-90.00	732.7	1,117.2	274.0	234.4	39.59	6.920		
8,600.0	7,500.0	8,482.6	7,500.0	32.5	29.0	-90.00	832.7	1,117.9	272.8	230.5	42.26	6.454		
8,700.0	7,500.0	8,582.6	7,500.0	33.4	30.0	-90.00	932.7	1,118.6	271.5	226.5	45.05	6.027		
8,800.0	7,500.0	8,682.6	7,500.0	34.4	31.1	-90.00	1,032.7	1,119.3	270.3	222.4	47.94	5.639		
8,900.0	7,500.0	8,782.6	7,500.0	35.4	32.2	-90.00	1,132.7	1,120.0	269.1	218.2	50.90	5.287		
9,000.0	7,500.0	8,882.6	7,500.0	36.5	33.4	-90.00	1,232.7	1,120.7	267.9	213.9	53.92	4.968		
9,100.0	7,500.0	8,982.6	7,500.0	37.6	34.7	-90.00	1,332.7	1,121.4	266.7	209.6	57.01	4.678		
9,200.0	7,500.0	9,082.6	7,500.0	38.8	36.0	-90.00	1,432.7	1,122.1	265.4	205.3	60.14	4.414		
9,300.0	7,500.0	9,182.5	7,500.0	40.0	37.3	-90.00	1,532.7	1,122.8	264.2	200.9	63.30	4.174		
9,400.0	7,500.0	9,282.5	7,500.0	41.3	38.7	-90.00	1,632.6	1,123.5	263.0	196.5	66.51	3.954		
9,500.0	7,500.0	9,382.5	7,500.0	42.6	40.1	-90.00	1,732.6	1,124.1	261.8	192.0	69.74	3.753		
9,600.0	7,500.0	9,482.5	7,500.0	43.9	41.5	-90.00	1,832.6	1,124.8	260.5	187.5	73.00	3.569		
9,700.0	7,500.0	9,582.5	7,500.0	45.2	42.9	-90.00	1,932.6	1,125.5	259.3	183.0	76.28	3.400		
9,800.0	7,500.0	9,682.5	7,500.0	46.6	44.4	-90.00	2,032.6	1,126.2	258.1	178.5	79.58	3.243		
9,900.0	7,500.0	9,782.5	7,500.0	48.0	45.9	-90.00	2,132.6	1,126.9	256.9	174.0	82.89	3.099		
10,000.0	7,500.0	9,882.5	7,500.0	49.5	47.4	-90.00	2,232.6	1,127.6	255.7	169.4	86.22	2.965		
10,100.0	7,500.0	9,982.5	7,500.0	50.9	48.9	-90.00	2,332.6	1,128.3	254.4	164.9	89.57	2.841		
10,200.0	7,500.0	10,082.5	7,500.0	52.4	50.5	-90.00	2,432.6	1,129.0	253.2	160.3	92.93	2.725		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
10,300.0	7,500.0	10,182.5	7,500.0	53.9	52.0	-90.00	2,532.6	1,129.7	252.0	155.7	96.29	2.617			
10,400.0	7,500.0	10,283.9	7,500.0	55.4	53.6	-90.00	2,634.0	1,130.5	250.7	150.7	99.94	2.508			
10,500.0	7,500.0	10,388.4	7,500.0	56.9	55.3	-90.00	2,738.5	1,132.8	248.0	143.8	104.12	2.381			
10,600.0	7,500.0	10,492.8	7,500.0	58.4	57.0	-90.00	2,842.8	1,137.0	243.4	135.1	108.29	2.248			
10,700.0	7,500.0	10,592.9	7,500.0	60.0	58.6	-90.00	2,942.8	1,142.1	237.9	126.1	111.74	2.129			
10,800.0	7,500.0	10,692.8	7,500.0	61.5	60.2	-90.00	3,042.5	1,147.1	232.3	117.2	115.14	2.017			
10,900.0	7,500.0	10,792.6	7,500.0	63.1	61.8	-90.00	3,142.2	1,152.1	226.7	108.2	118.56	1.913			
11,000.0	7,500.0	10,892.5	7,500.0	64.7	63.5	-90.00	3,241.9	1,157.1	221.2	99.2	121.98	1.813			
11,100.0	7,500.0	10,992.3	7,500.0	66.2	65.1	-90.00	3,341.6	1,162.2	215.6	90.2	125.40	1.720			
11,200.0	7,500.0	11,092.2	7,500.0	67.8	66.8	-90.00	3,441.4	1,167.2	210.1	81.2	128.83	1.631			
11,300.0	7,500.0	11,192.0	7,500.0	69.4	68.4	-90.00	3,541.1	1,172.2	204.5	72.3	132.26	1.546			
11,400.0	7,500.0	11,291.8	7,500.0	71.0	70.1	-90.00	3,640.8	1,177.2	199.0	63.3	135.70	1.466	Level 3		
11,500.0	7,500.0	11,391.7	7,500.0	72.7	71.8	-90.00	3,740.5	1,182.3	193.4	54.3	139.14	1.390	Level 3		
11,600.0	7,500.0	11,491.5	7,500.0	74.3	73.4	-90.00	3,840.2	1,187.3	187.8	45.3	142.58	1.318	Level 3		
11,700.0	7,500.0	11,591.4	7,500.0	75.9	75.1	-90.00	3,940.0	1,192.3	182.3	36.3	146.03	1.248	Level 2		
11,800.0	7,500.0	11,691.2	7,500.0	77.5	76.8	-90.00	4,039.7	1,197.4	176.7	27.3	149.47	1.182	Level 2		
11,900.0	7,500.0	11,791.1	7,500.0	79.2	78.5	-90.00	4,139.4	1,202.4	171.2	18.3	152.93	1.119	Level 2		
12,000.0	7,500.0	11,890.9	7,500.0	80.8	80.2	-90.00	4,239.1	1,207.4	166.0	9.7	156.38	1.062	Level 2, SF		
12,023.9	7,500.0	11,907.9	7,500.0	81.2	80.4	-90.00	4,256.0	1,208.3	165.0	9.6	155.40	1.062	Level 2		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	90.10	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.10	0.0	10.1	10.1	9.8	0.30	33.947		
200.0	200.0	200.0	200.0	0.3	0.3	90.10	0.0	10.1	10.1	9.4	0.65	15.597 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-97.31	-0.5	10.1	10.2	9.2	1.00	10.168		
400.0	399.8	400.0	399.9	0.7	0.7	-106.77	-3.9	10.1	10.5	9.1	1.37	7.657 ES		
500.0	499.6	499.9	499.7	0.9	0.9	-101.25	-9.2	10.9	11.1	9.4	1.76	6.328		
600.0	599.3	599.7	599.3	1.1	1.1	-95.99	-14.3	13.6	12.0	9.8	2.16	5.549		
700.0	699.0	699.5	698.9	1.3	1.3	-91.81	-19.5	17.9	13.0	10.4	2.57	5.049		
800.0	798.6	799.3	798.4	1.6	1.5	-88.83	-24.6	24.0	14.1	11.1	3.00	4.698		
900.0	898.0	899.1	897.7	1.8	1.7	-86.83	-29.6	31.8	15.3	11.9	3.46	4.429		
1,000.0	997.3	998.9	997.0	2.0	1.9	-85.53	-34.6	41.3	16.6	12.7	3.95	4.207		
1,100.0	1,096.5	1,098.7	1,096.0	2.3	2.2	-84.72	-39.6	52.6	17.9	13.5	4.47	4.012		
1,200.0	1,195.4	1,198.5	1,194.8	2.6	2.5	-84.22	-44.5	65.6	19.3	14.3	5.04	3.834		
1,300.0	1,294.1	1,298.3	1,293.4	2.9	2.8	-83.93	-49.4	80.3	20.7	15.1	5.64	3.667		
1,400.0	1,392.5	1,398.1	1,391.8	3.2	3.1	-83.78	-54.3	96.8	22.1	15.8	6.30	3.508		
1,500.0	1,490.6	1,497.9	1,489.8	3.6	3.4	-83.73	-59.1	114.9	23.5	16.5	7.00	3.356		
1,600.0	1,588.4	1,597.8	1,587.5	4.0	3.8	-83.73	-63.8	134.8	24.9	17.2	7.76	3.210		
1,700.0	1,686.0	1,697.6	1,684.8	4.4	4.2	-83.64	-68.5	156.3	26.6	18.0	8.57	3.105		
1,800.0	1,783.6	1,797.5	1,781.9	4.8	4.6	-81.19	-73.2	179.3	28.9	19.5	9.40	3.074		
1,900.0	1,881.1	1,897.4	1,879.1	5.2	5.1	-78.90	-77.8	202.4	31.3	21.1	10.22	3.061		
2,000.0	1,978.7	1,997.4	1,976.2	5.6	5.5	-76.94	-82.5	225.5	33.7	22.7	11.03	3.057		
2,100.0	2,076.3	2,097.3	2,073.4	6.0	5.9	-75.25	-87.1	248.6	36.2	24.3	11.83	3.059		
2,200.0	2,173.8	2,197.3	2,170.5	6.4	6.4	-73.77	-91.8	271.7	38.7	26.0	12.62	3.065		
2,300.0	2,271.4	2,297.3	2,267.7	6.8	6.8	-72.47	-96.4	294.7	41.2	27.8	13.40	3.074		
2,400.0	2,369.0	2,397.2	2,364.8	7.2	7.3	-71.32	-101.1	317.8	43.7	29.5	14.17	3.084		
2,500.0	2,466.5	2,497.2	2,462.0	7.7	7.7	-70.30	-105.7	340.9	46.3	31.3	14.94	3.096		
2,600.0	2,564.1	2,597.2	2,559.1	8.1	8.2	-69.38	-110.4	364.0	48.8	33.1	15.71	3.109		
2,700.0	2,661.7	2,697.1	2,656.3	8.5	8.6	-68.56	-115.0	387.1	51.4	34.9	16.47	3.122		
2,800.0	2,759.2	2,797.1	2,753.4	8.9	9.0	-67.81	-119.7	410.2	54.0	36.8	17.22	3.135		
2,900.0	2,856.8	2,897.1	2,850.6	9.3	9.5	-67.14	-124.3	433.3	56.6	38.6	17.98	3.148		
3,000.0	2,954.4	2,997.0	2,947.7	9.8	9.9	-66.52	-129.0	456.4	59.2	40.5	18.72	3.161		
3,100.0	3,052.0	3,097.0	3,044.9	10.2	10.4	-65.95	-133.6	479.4	61.8	42.3	19.47	3.173		
3,200.0	3,149.5	3,197.0	3,142.0	10.6	10.8	-65.43	-138.3	502.5	64.4	44.2	20.22	3.185		
3,300.0	3,247.1	3,296.9	3,239.2	11.0	11.3	-64.95	-143.0	525.6	67.0	46.1	20.96	3.197		
3,400.0	3,344.7	3,396.9	3,336.3	11.4	11.7	-64.51	-147.6	548.7	69.6	47.9	21.70	3.209		
3,500.0	3,442.2	3,496.8	3,433.5	11.9	12.2	-64.10	-152.3	571.8	72.3	49.8	22.44	3.220		
3,600.0	3,539.8	3,596.8	3,530.6	12.3	12.7	-63.72	-156.9	594.9	74.9	51.7	23.18	3.231		
3,700.0	3,637.4	3,696.8	3,627.8	12.7	13.1	-63.36	-161.6	618.0	77.5	53.6	23.91	3.242		
3,800.0	3,734.9	3,796.7	3,724.9	13.1	13.6	-63.03	-166.2	641.1	80.2	55.5	24.65	3.252		
3,900.0	3,832.5	3,896.7	3,822.1	13.6	14.0	-62.72	-170.9	664.2	82.8	57.4	25.38	3.262		
4,000.0	3,930.1	3,996.7	3,919.2	14.0	14.5	-62.42	-175.5	687.2	85.4	59.3	26.12	3.271		
4,100.0	4,027.7	4,096.6	4,016.4	14.4	14.9	-62.15	-180.2	710.3	88.1	61.2	26.85	3.280		
4,200.0	4,125.2	4,196.6	4,113.5	14.8	15.4	-61.89	-184.8	733.4	90.7	63.1	27.58	3.289		
4,300.0	4,222.8	4,296.6	4,210.7	15.3	15.8	-61.65	-189.5	756.5	93.4	65.0	28.31	3.297		
4,400.0	4,320.4	4,396.5	4,307.8	15.7	16.3	-61.42	-194.1	779.6	96.0	67.0	29.04	3.306		
4,500.0	4,417.9	4,496.5	4,405.0	16.1	16.7	-61.20	-198.8	802.7	98.7	68.9	29.77	3.314		
4,600.0	4,515.5	4,596.5	4,502.1	16.5	17.2	-60.99	-203.4	825.8	101.3	70.8	30.50	3.321		
4,700.0	4,613.1	4,696.4	4,599.3	17.0	17.6	-60.79	-208.1	848.9	104.0	72.7	31.23	3.329		
4,800.0	4,710.6	4,796.4	4,696.4	17.4	18.1	-60.61	-212.7	872.0	106.6	74.6	31.96	3.336		
4,900.0	4,808.2	4,896.3	4,793.6	17.8	18.5	-60.43	-217.4	895.0	109.3	76.6	32.69	3.343		
5,000.0	4,905.8	4,996.3	4,890.7	18.3	19.0	-60.26	-222.1	918.1	111.9	78.5	33.41	3.349		
5,100.0	5,003.3	5,096.3	4,987.9	18.7	19.5	-60.10	-226.7	941.2	114.6	80.4	34.14	3.356		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft					
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft				
Reference													Semi Major Axis		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)									
5,200.0	5,100.9	5,196.2	5,085.0	19.1	19.9	-59.95	-231.4	964.3	117.2	82.4	34.87	3.362							
5,300.0	5,198.5	5,296.2	5,182.2	19.5	20.4	-59.80	-236.0	987.4	119.9	84.3	35.59	3.368							
5,400.0	5,296.1	5,396.2	5,279.3	20.0	20.8	-59.66	-240.7	1,010.5	122.5	86.2	36.32	3.374							
5,500.0	5,393.6	5,496.1	5,376.5	20.4	21.3	-59.52	-245.3	1,033.6	125.2	88.1	37.05	3.379							
5,600.0	5,491.2	5,596.1	5,473.6	20.8	21.7	-59.39	-250.0	1,056.7	127.9	90.1	37.77	3.385							
5,700.0	5,588.8	5,696.1	5,570.8	21.2	22.2	-59.27	-254.6	1,079.8	130.5	92.0	38.50	3.390							
5,800.0	5,686.3	5,796.0	5,667.9	21.7	22.6	-59.15	-259.3	1,102.8	133.2	94.0	39.22	3.395							
5,900.0	5,783.9	5,896.0	5,765.1	22.1	23.1	-59.04	-263.9	1,125.9	135.8	95.9	39.95	3.400							
6,000.0	5,881.5	5,996.0	5,862.2	22.5	23.6	-58.93	-268.6	1,149.0	138.5	97.8	40.67	3.405							
6,100.0	5,979.0	6,095.9	5,959.4	22.9	24.0	-58.82	-273.2	1,172.1	141.2	99.8	41.39	3.410							
6,200.0	6,076.6	6,195.9	6,065.5	23.4	24.5	-58.72	-277.9	1,195.2	143.8	101.7	42.12	3.415							
6,300.0	6,174.2	6,295.8	6,153.7	23.8	24.9	-58.62	-282.5	1,218.3	146.5	103.6	42.84	3.419							
6,400.0	6,271.7	6,395.8	6,250.8	24.2	25.4	-58.53	-287.2	1,241.4	149.1	105.6	43.56	3.423							
6,500.0	6,369.3	6,495.8	6,348.0	24.7	25.8	-58.44	-291.8	1,264.5	151.8	107.5	44.29	3.428							
6,600.0	6,466.9	6,595.7	6,445.1	25.1	26.3	-58.35	-296.5	1,287.6	154.5	109.5	45.01	3.432							
6,700.0	6,564.5	6,695.7	6,542.3	25.5	26.7	-58.26	-301.2	1,310.6	157.1	111.4	45.73	3.436							
6,800.0	6,662.0	6,795.7	6,639.4	25.9	27.2	-58.18	-305.8	1,333.7	159.8	113.3	46.46	3.440							
6,900.0	6,759.6	6,895.6	6,736.6	26.4	27.7	-58.09	-310.5	1,356.8	162.4	115.3	47.18	3.443							
7,000.0	6,857.3	6,997.1	6,825.6	26.7	28.1	-58.00	-315.2	1,379.9	165.0	117.2	47.90	3.447							
7,100.0	6,955.0	7,097.5	6,910.1	27.0	28.4	-57.91	-319.9	1,403.0	167.6	119.1	48.62	3.450							
7,200.0	7,052.7	7,197.4	6,993.6	27.3	28.7	-57.82	-324.6	1,426.1	170.2	121.0	49.34	3.453							
7,300.0	7,150.4	7,297.3	7,076.7	27.6	29.0	-57.73	-329.3	1,449.2	172.8	122.9	50.06	3.456							
7,400.0	7,248.1	7,397.2	7,159.8	27.9	29.3	-57.64	-334.0	1,472.3	175.4	124.8	50.78	3.459							
7,500.0	7,345.8	7,497.1	7,242.9	28.2	29.6	-57.55	-338.7	1,495.4	178.0	126.7	51.50	3.462							
7,600.0	7,443.5	7,597.0	7,326.0	28.5	29.9	-57.46	-343.4	1,518.5	180.6	128.6	52.22	3.465							
7,700.0	7,541.2	7,696.9	7,409.1	28.8	30.2	-57.37	-348.1	1,541.6	183.2	130.5	52.94	3.468							
7,800.0	7,638.9	7,796.8	7,492.2	29.1	30.5	-57.28	-352.8	1,564.7	185.8	132.4	53.66	3.471							
7,900.0	7,736.6	7,896.7	7,575.3	29.4	30.8	-57.19	-357.5	1,587.8	188.4	134.3	54.38	3.474							
8,000.0	7,834.3	7,996.6	7,658.4	29.7	31.1	-57.10	-362.2	1,610.9	191.0	136.2	55.10	3.477							
8,100.0	7,932.0	8,096.5	7,741.5	30.0	31.4	-57.01	-366.9	1,634.0	193.6	138.1	55.82	3.480							
8,200.0	8,029.7	8,196.4	7,824.6	30.3	31.7	-56.92	-371.6	1,657.1	196.2	140.0	56.54	3.483							
8,300.0	8,127.4	8,296.3	7,907.7	30.6	32.0	-56.83	-376.3	1,680.2	198.8	141.9	57.26	3.486							
8,400.0	8,225.1	8,396.2	7,990.8	30.9	32.3	-56.74	-381.0	1,703.3	201.4	143.8	57.98	3.489							
8,500.0	8,322.8	8,496.1	8,073.9	31.2	32.6	-56.65	-385.7	1,726.4	204.0	145.7	58.70	3.492							
8,600.0	8,420.5	8,596.0	8,157.0	31.5	32.9	-56.56	-390.4	1,749.5	206.6	147.6	59.42	3.495							
8,700.0	8,518.2	8,695.9	8,240.1	31.8	33.2	-56.47	-395.1	1,772.6	209.2	149.5	60.14	3.498							
8,800.0	8,615.9	8,795.8	8,323.2	32.1	33.5	-56.38	-400.0	1,795.7	211.8	151.4	60.86	3.501							
8,900.0	8,713.6	8,895.7	8,406.3	32.4	33.8	-56.29	-404.7	1,818.8	214.4	153.3	61.58	3.504							
9,000.0	8,811.3	8,995.6	8,489.4	32.7	34.1	-56.20	-409.4	1,841.9	217.0	155.2	62.30	3.507							
9,100.0	8,909.0	9,095.5	8,572.5	33.0	34.4	-56.11	-414.1	1,865.0	219.6	157.1	63.02	3.510							
9,200.0	9,006.7	9,195.4	8,655.6	33.3	34.7	-56.02	-418.8	1,888.1	222.2	159.0	63.74	3.513							
9,300.0	9,104.4	9,295.3	8,738.7	33.6	35.0	-55.93	-423.5	1,911.2	224.8	160.9	64.46	3.516							
9,400.0	9,202.1	9,395.2	8,821.8	33.9	35.3	-55.84	-428.2	1,934.3	227.4	162.8	65.18	3.519							
9,500.0	9,300.0	9,495.1	8,904.9	34.2	35.6	-55.75	-432.9	1,957.4	230.0	164.7	65.90	3.522							
9,600.0	9,397.7	9,595.0	8,988.0	34.5	35.9	-55.66	-437.6	1,980.5	232.6	166.6	66.62	3.525							
9,700.0	9,495.4	9,694.9	9,071.1	34.8	36.2	-55.57	-442.3	2,003.6	235.2	168.5	67.34	3.528							
9,800.0	9,593.1	9,794.8	9,154.2	35.1	36.5	-55.48	-447.0	2,026.7	237.8	170.4	68.06	3.531							
9,900.0	9,690.8	9,894.7	9,237.3	35.4	36.8	-55.39	-451.7	2,049.8	240.4	172.3	68.78	3.534							
10,000.0	9,788.5	9,994.6	9,320.4	35.7	37.1	-55.30	-456.4	2,072.9	243.0	174.2	69.50	3.537							
10,100.0	9,886.2	10,094.5	9,403.5	36.0	37.4	-55.21	-461.1	2,096.0	245.6	176.1	70.22	3.540							
10,200.0	9,983.9	10,194.4	9,486.6	36.3	37.7	-55.12	-465.8	2,119.1	248.2	178.0	70.94	3.543							

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
10,300.0	7,500.0	10,216.7	7,500.0	53.9	55.1	90.00	2,530.8	1,538.3	156.5	60.5	96.00	1.631			
10,400.0	7,500.0	10,316.6	7,500.0	55.4	56.5	90.00	2,630.8	1,538.3	157.1	57.7	99.38	1.580			
10,500.0	7,500.0	10,416.6	7,500.0	56.9	58.0	90.00	2,730.8	1,538.3	157.6	54.8	102.76	1.534			
10,600.0	7,500.0	10,516.6	7,500.0	58.4	59.5	90.00	2,830.8	1,538.3	158.1	52.0	106.15	1.489	Level 3		
10,700.0	7,500.0	10,616.6	7,500.0	60.0	61.1	90.00	2,930.8	1,538.3	158.6	49.1	109.56	1.448	Level 3		
10,800.0	7,500.0	10,716.6	7,500.0	61.5	62.6	90.00	3,030.8	1,538.3	159.2	46.2	112.96	1.409	Level 3		
10,900.0	7,500.0	10,816.6	7,500.0	63.1	64.1	90.00	3,130.8	1,538.3	159.7	43.3	116.38	1.372	Level 3		
11,000.0	7,500.0	10,916.6	7,500.0	64.7	65.7	90.00	3,230.8	1,538.3	160.2	40.4	119.79	1.337	Level 3		
11,100.0	7,500.0	11,016.6	7,500.0	66.2	67.2	90.00	3,330.8	1,538.3	160.7	37.5	123.22	1.304	Level 3		
11,200.0	7,500.0	11,116.6	7,500.0	67.8	68.8	90.00	3,430.8	1,538.3	161.3	34.6	126.65	1.273	Level 3		
11,300.0	7,500.0	11,216.6	7,500.0	69.4	70.4	90.00	3,530.8	1,538.3	161.8	31.7	130.08	1.244	Level 2		
11,400.0	7,500.0	11,316.6	7,500.0	71.0	72.0	90.00	3,630.8	1,538.3	162.3	28.8	133.51	1.216	Level 2		
11,500.0	7,500.0	11,416.6	7,500.0	72.7	73.6	90.00	3,730.8	1,538.3	162.8	25.9	136.95	1.189	Level 2		
11,600.0	7,500.0	11,516.6	7,500.0	74.3	75.2	90.00	3,830.8	1,538.3	163.3	22.9	140.40	1.163	Level 2		
11,700.0	7,500.0	11,616.6	7,500.0	75.9	76.8	90.00	3,930.8	1,538.3	163.9	20.0	143.84	1.139	Level 2		
11,800.0	7,500.0	11,716.6	7,500.0	77.5	78.4	90.00	4,030.8	1,538.3	164.4	17.1	147.29	1.116	Level 2		
11,900.0	7,500.0	11,816.6	7,500.0	79.2	80.0	90.00	4,130.8	1,538.3	164.9	14.2	150.75	1.094	Level 2		
12,000.0	7,500.0	11,916.6	7,500.0	80.8	81.7	90.00	4,230.8	1,538.3	165.0	10.8	154.20	1.070	Level 2		
12,021.9	7,500.0	11,938.5	7,500.0	81.2	82.0	90.00	4,252.6	1,538.3	165.0	10.0	154.96	1.065	Level 2		
12,023.9	7,500.0	11,939.2	7,500.0	81.2	82.0	90.00	4,253.3	1,538.3	165.0	9.6	155.40	1.062	Level 2, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	89.93	0.0	20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.93	0.0	20.1	20.1	19.8	0.30	67.894		
200.0	200.0	200.0	200.0	0.3	0.3	89.93	0.0	20.1	20.1	19.5	0.65	31.195 CC, ES		
300.0	300.0	299.6	299.6	0.5	0.5	-94.56	-0.1	21.0	21.1	20.1	1.00	21.124		
400.0	399.8	399.1	399.0	0.7	0.7	-105.64	-0.3	23.6	24.5	23.2	1.37	17.964		
500.0	499.6	498.4	498.3	0.9	0.9	-101.74	-0.7	27.9	30.1	28.4	1.74	17.283		
600.0	599.3	597.7	597.3	1.1	1.1	-95.60	-1.3	33.9	36.2	34.1	2.13	16.984		
700.0	699.0	696.9	696.3	1.3	1.3	-89.49	-2.0	41.6	42.5	39.9	2.54	16.729		
800.0	798.6	796.1	795.0	1.6	1.5	-84.24	-2.9	51.0	48.8	45.8	2.97	16.421		
900.0	898.0	895.3	893.6	1.8	1.8	-79.95	-4.0	62.1	55.1	51.6	3.43	16.040		
1,000.0	997.3	994.4	991.9	2.0	2.0	-76.48	-5.2	74.9	61.2	57.3	3.93	15.595		
1,100.0	1,096.5	1,093.5	1,089.9	2.3	2.3	-73.64	-6.6	89.4	67.2	62.8	4.45	15.100		
1,200.0	1,195.4	1,192.6	1,187.6	2.6	2.6	-71.28	-8.1	105.5	73.1	68.1	5.02	14.569		
1,300.0	1,294.1	1,291.6	1,285.0	2.9	3.0	-69.28	-9.8	123.3	78.8	73.2	5.62	14.019		
1,400.0	1,392.5	1,390.6	1,382.0	3.2	3.4	-67.56	-11.7	142.8	84.4	78.1	6.27	13.460		
1,500.0	1,490.6	1,489.5	1,478.7	3.6	3.8	-66.04	-13.7	164.0	89.7	82.8	6.95	12.903		
1,600.0	1,588.4	1,588.5	1,574.9	4.0	4.2	-64.67	-15.9	186.8	94.9	87.2	7.68	12.354		
1,700.0	1,686.0	1,687.3	1,670.7	4.4	4.7	-64.36	-18.3	211.2	100.3	91.9	8.42	11.908		
1,800.0	1,783.6	1,786.0	1,765.8	4.8	5.1	-63.50	-20.7	237.3	106.8	97.6	9.16	11.657		
1,900.0	1,881.1	1,884.5	1,860.4	5.2	5.7	-62.08	-23.4	264.9	114.3	104.5	9.88	11.578		
2,000.0	1,978.7	1,983.1	1,954.5	5.6	6.2	-60.24	-26.2	294.1	123.0	112.5	10.56	11.654		
2,100.0	2,076.3	2,082.6	2,049.3	6.0	6.8	-58.47	-29.0	324.0	132.2	121.0	11.23	11.775		
2,200.0	2,173.8	2,182.1	2,144.1	6.4	7.3	-56.92	-31.9	354.0	141.5	129.6	11.88	11.904		
2,300.0	2,271.4	2,281.6	2,239.0	6.8	7.9	-55.57	-34.8	384.0	150.8	138.3	12.53	12.036		
2,400.0	2,369.0	2,381.1	2,333.8	7.2	8.4	-54.37	-37.6	413.9	160.2	147.1	13.17	12.168		
2,500.0	2,466.5	2,480.6	2,428.7	7.7	9.0	-53.31	-40.5	443.9	169.7	155.9	13.80	12.299		
2,600.0	2,564.1	2,580.1	2,523.5	8.1	9.6	-52.36	-43.4	473.8	179.3	164.8	14.43	12.427		
2,700.0	2,661.7	2,679.6	2,618.3	8.5	10.1	-51.51	-46.2	503.8	188.9	173.8	15.05	12.552		
2,800.0	2,759.2	2,779.1	2,713.2	8.9	10.7	-50.74	-49.1	533.7	198.5	182.8	15.66	12.672		
2,900.0	2,856.8	2,878.6	2,808.0	9.3	11.3	-50.04	-52.0	563.7	208.1	191.8	16.27	12.788		
3,000.0	2,954.4	2,978.1	2,902.9	9.8	11.8	-49.40	-54.8	593.7	217.8	200.9	16.88	12.900		
3,100.0	3,052.0	3,077.6	2,997.7	10.2	12.4	-48.81	-57.7	623.6	227.5	210.0	17.49	13.007		
3,200.0	3,149.5	3,177.1	3,092.6	10.6	13.0	-48.28	-60.6	653.6	237.2	219.1	18.10	13.111		
3,300.0	3,247.1	3,276.6	3,187.4	11.0	13.5	-47.79	-63.4	683.5	247.0	228.3	18.70	13.210		
3,400.0	3,344.7	3,376.1	3,282.2	11.4	14.1	-47.33	-66.3	713.5	256.7	237.5	19.30	13.305		
3,500.0	3,442.2	3,475.6	3,377.1	11.9	14.7	-46.91	-69.2	743.5	266.5	246.6	19.90	13.396		
3,600.0	3,539.8	3,575.1	3,471.9	12.3	15.3	-46.51	-72.0	773.4	276.3	255.8	20.49	13.483		
3,700.0	3,637.4	3,674.6	3,566.8	12.7	15.8	-46.15	-74.9	803.4	286.1	265.0	21.09	13.567		
3,800.0	3,734.9	3,774.1	3,661.6	13.1	16.4	-45.81	-77.8	833.3	295.9	274.3	21.68	13.648		
3,900.0	3,832.5	3,873.6	3,756.4	13.6	17.0	-45.49	-80.6	863.3	305.8	283.5	22.28	13.725		
4,000.0	3,930.1	3,973.1	3,851.3	14.0	17.5	-45.19	-83.5	893.3	315.6	292.7	22.87	13.799		
4,100.0	4,027.7	4,072.6	3,946.1	14.4	18.1	-44.91	-86.4	923.2	325.4	302.0	23.46	13.871		
4,200.0	4,125.2	4,172.1	4,041.0	14.8	18.7	-44.64	-89.2	953.2	335.3	311.2	24.05	13.939		
4,300.0	4,222.8	4,271.6	4,135.8	15.3	19.3	-44.39	-92.1	983.1	345.1	320.5	24.64	14.005		
4,400.0	4,320.4	4,371.1	4,230.7	15.7	19.8	-44.16	-94.9	1,013.1	355.0	329.8	25.23	14.069		
4,500.0	4,417.9	4,470.6	4,325.5	16.1	20.4	-43.93	-97.8	1,043.0	364.9	339.0	25.82	14.130		
4,600.0	4,515.5	4,570.1	4,420.3	16.5	21.0	-43.72	-100.7	1,073.0	374.7	348.3	26.41	14.189		
4,700.0	4,613.1	4,669.6	4,515.2	17.0	21.6	-43.52	-103.5	1,103.0	384.6	357.6	27.00	14.246		
4,800.0	4,710.6	4,769.1	4,610.0	17.4	22.1	-43.33	-106.4	1,132.9	394.5	366.9	27.59	14.301		
4,900.0	4,808.2	4,868.6	4,704.9	17.8	22.7	-43.15	-109.3	1,162.9	404.4	376.2	28.17	14.353		
5,000.0	4,905.8	4,968.2	4,799.7	18.3	23.3	-42.98	-112.1	1,192.8	414.3	385.5	28.76	14.404		
5,100.0	5,003.3	5,067.7	4,894.5	18.7	23.9	-42.81	-115.0	1,222.8	424.2	394.8	29.35	14.454		

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 4U-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 4U-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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,100.9	5,167.2	4,989.4	19.1	24.4	-42.65	-117.9	1,252.8	434.1	404.1	29.93	14.501		
5,300.0	5,198.5	5,266.7	5,084.2	19.5	25.0	-42.50	-120.7	1,282.7	444.0	413.4	30.52	14.547		
5,400.0	5,296.1	5,366.2	5,179.1	20.0	25.6	-42.36	-123.6	1,312.7	453.9	422.8	31.10	14.592		
5,500.0	5,393.6	5,465.7	5,273.9	20.4	26.1	-42.22	-126.5	1,342.6	463.8	432.1	31.69	14.635		
5,600.0	5,491.2	5,565.2	5,368.8	20.8	26.7	-42.09	-129.3	1,372.6	473.7	441.4	32.27	14.677		
5,700.0	5,588.8	5,664.7	5,463.6	21.2	27.3	-41.97	-132.2	1,402.6	483.6	450.7	32.86	14.717		
5,800.0	5,686.3	5,764.2	5,558.4	21.7	27.9	-41.84	-135.1	1,432.5	493.5	460.0	33.44	14.757		
5,900.0	5,783.9	5,863.7	5,653.3	22.1	28.4	-41.73	-137.9	1,462.5	503.4	469.4	34.03	14.795		
6,000.0	5,881.5	5,963.2	5,748.1	22.5	29.0	-41.62	-140.8	1,492.4	513.3	478.7	34.61	14.831		
6,100.0	5,979.0	6,062.7	5,843.0	22.9	29.6	-41.51	-143.7	1,522.4	523.2	488.0	35.19	14.867		
6,200.0	6,076.6	6,162.2	5,937.8	23.4	30.2	-41.40	-146.5	1,552.3	533.2	497.4	35.78	14.902		
6,300.0	6,174.2	6,261.7	6,032.6	23.8	30.7	-41.30	-149.4	1,582.3	543.1	506.7	36.36	14.936		
6,400.0	6,271.7	6,361.2	6,127.5	24.2	31.3	-41.21	-152.3	1,612.3	553.0	516.1	36.94	14.968		
6,500.0	6,369.3	6,460.7	6,222.3	24.7	31.9	-41.12	-155.1	1,642.2	562.9	525.4	37.53	15.000		
6,600.0	6,466.9	6,560.2	6,317.2	25.1	32.5	-41.03	-158.0	1,672.2	572.8	534.7	38.11	15.031		
6,700.0	6,564.5	6,659.7	6,412.0	25.5	33.0	-40.94	-160.9	1,702.1	582.8	544.1	38.69	15.061		
6,800.0	6,662.0	6,759.2	6,506.9	25.9	33.6	-40.86	-163.7	1,732.1	592.7	553.4	39.28	15.091		
6,900.0	6,759.6	6,858.7	6,601.7	26.4	34.2	-39.23	-166.6	1,762.1	602.6	562.8	39.86	15.120		
7,000.0	6,857.3	6,958.1	6,696.4	26.7	34.8	-3.14	-169.4	1,792.0	609.5	569.6	39.89	15.280		
7,100.0	6,953.8	7,038.9	6,773.5	27.0	35.2	22.76	-169.5	1,816.2	612.0	573.1	38.91	15.728		
7,200.0	7,047.4	7,115.0	6,845.7	27.3	35.6	37.18	-161.6	1,838.7	613.3	576.0	37.30	16.442		
7,300.0	7,136.1	7,192.3	6,917.9	27.5	36.0	46.04	-145.4	1,860.9	613.5	578.3	35.23	17.417		
7,400.0	7,218.3	7,271.2	6,989.6	27.6	36.4	52.32	-120.6	1,882.6	613.0	580.1	32.88	18.646		
7,500.0	7,292.4	7,350.0	7,058.2	27.7	36.8	57.29	-87.8	1,903.0	612.0	581.5	30.48	20.077		
7,600.0	7,356.9	7,435.0	7,128.0	27.9	37.1	61.69	-43.7	1,923.5	610.8	582.3	28.53	21.412		
7,700.0	7,410.5	7,520.9	7,192.9	28.1	37.5	65.68	9.1	1,942.1	609.6	582.4	27.26	22.365		
7,800.0	7,452.2	7,610.0	7,253.6	28.3	37.8	69.45	72.1	1,958.9	608.8	581.9	26.93	22.606		
7,883.7	7,477.4	7,687.4	7,300.0	28.5	38.1	72.49	132.8	1,971.4	608.6	581.1	27.46	22.165		
7,900.0	7,481.2	7,702.9	7,308.5	28.5	38.2	73.08	145.6	1,973.7	608.6	581.0	27.61	22.043		
8,000.0	7,497.0	7,800.5	7,355.9	28.9	38.6	76.59	229.9	1,985.6	609.1	580.1	29.02	20.988		
8,100.0	7,500.0	7,903.7	7,393.7	29.2	39.0	79.97	325.4	1,994.2	610.3	579.6	30.73	19.860		
8,200.0	7,500.0	8,015.8	7,419.6	29.7	39.4	82.44	434.3	1,998.6	611.2	578.9	32.28	18.934		
8,300.0	7,500.0	8,133.8	7,429.0	30.3	39.9	83.31	551.8	1,997.4	609.7	576.1	33.63	18.133		
8,400.0	7,500.0	8,233.9	7,429.0	31.0	40.4	83.28	651.9	1,993.9	606.8	571.0	35.84	16.930		
8,500.0	7,500.0	8,333.9	7,429.0	31.7	40.9	83.24	751.7	1,990.4	603.9	565.6	38.24	15.790		
8,600.0	7,500.0	8,433.8	7,429.0	32.5	41.5	83.21	851.6	1,987.0	600.9	560.1	40.80	14.728		
8,700.0	7,500.0	8,533.8	7,429.0	33.4	42.2	83.18	951.5	1,983.5	598.0	554.5	43.49	13.750		
8,800.0	7,500.0	8,633.7	7,429.0	34.4	42.9	83.14	1,051.4	1,980.0	595.0	548.7	46.28	12.857		
8,900.0	7,500.0	8,733.7	7,429.0	35.4	43.7	83.11	1,151.3	1,976.5	592.1	542.9	49.16	12.044		
9,000.0	7,500.0	8,833.7	7,429.0	36.5	44.5	83.08	1,251.2	1,973.0	589.1	537.0	52.11	11.306		
9,100.0	7,500.0	8,933.6	7,429.0	37.6	45.4	83.04	1,351.1	1,969.5	586.2	531.1	55.12	10.634		
9,200.0	7,500.0	9,033.6	7,429.0	38.8	46.3	83.00	1,451.0	1,966.0	583.2	525.0	58.19	10.023		
9,300.0	7,500.0	9,133.5	7,429.0	40.0	47.3	82.97	1,550.9	1,962.5	580.3	519.0	61.30	9.467		
9,400.0	7,500.0	9,233.5	7,429.0	41.3	48.3	82.93	1,650.8	1,959.0	577.3	512.9	64.44	8.959		
9,500.0	7,500.0	9,333.4	7,429.0	42.6	49.4	82.90	1,750.7	1,955.6	574.4	506.8	67.62	8.495		
9,600.0	7,500.0	9,433.4	7,429.0	43.9	50.5	82.86	1,850.6	1,952.1	571.5	500.6	70.83	8.069		
9,700.0	7,500.0	9,533.3	7,429.0	45.2	51.7	82.82	1,950.5	1,948.6	568.5	494.5	74.06	7.677		
9,800.0	7,500.0	9,633.3	7,429.0	46.6	52.8	82.79	2,050.4	1,945.1	565.6	488.3	77.31	7.316		
9,900.0	7,500.0	9,733.3	7,429.0	48.0	54.0	82.75	2,150.3	1,941.6	562.6	482.1	80.57	6.983		
10,000.0	7,500.0	9,833.2	7,429.0	49.5	55.3	82.71	2,250.2	1,938.1	559.7	475.8	83.86	6.674		
10,100.0	7,500.0	9,933.2	7,429.0	50.9	56.6	82.67	2,350.1	1,934.6	556.7	469.6	87.16	6.388		
10,200.0	7,500.0	10,033.1	7,429.0	52.4	57.9	82.63	2,450.0	1,931.1	553.8	463.3	90.47	6.122		

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

Anticollision Report

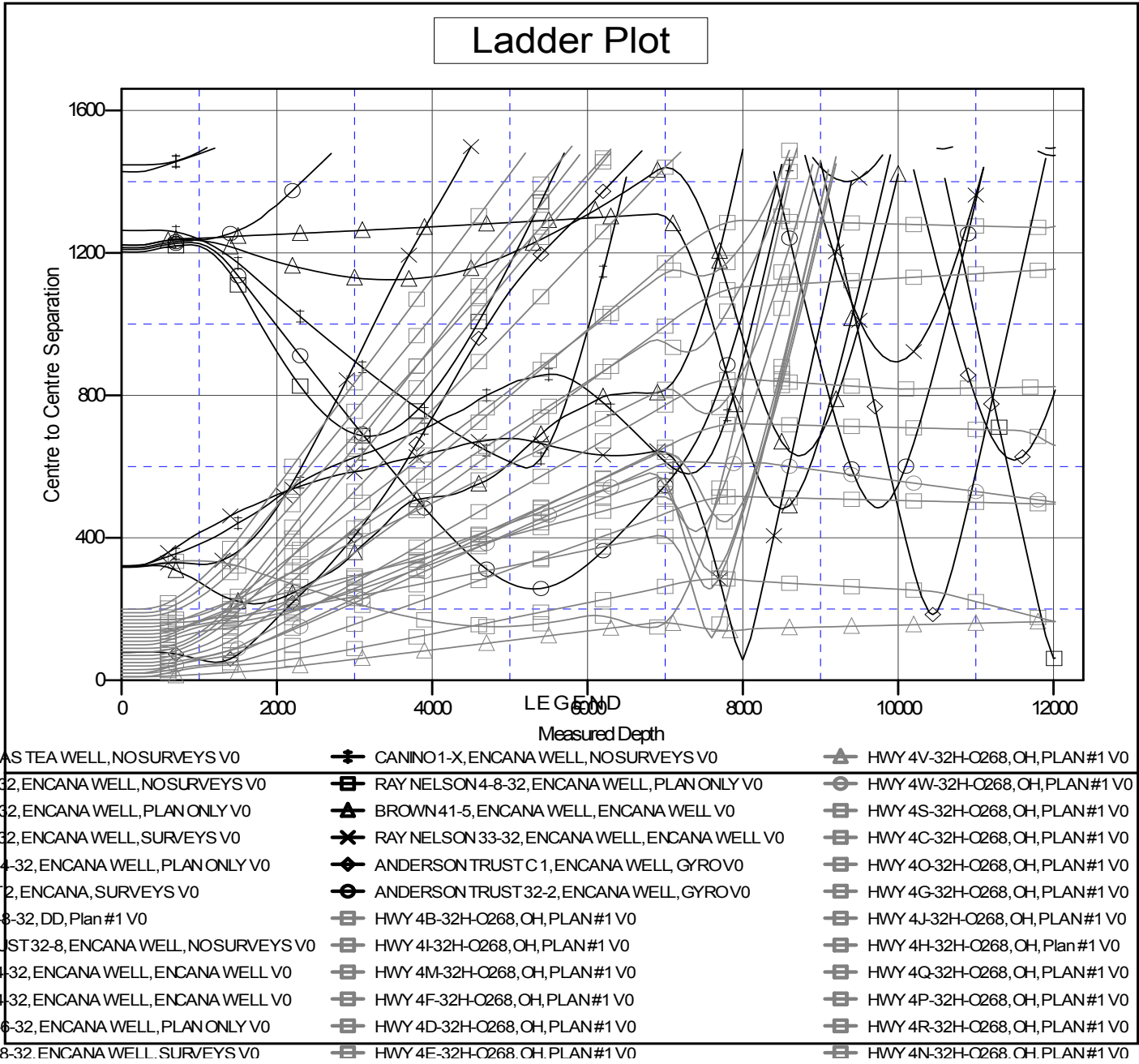
Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4U-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4U-32H-O268	Survey Calculation 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 #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
10,300.0	7,500.0	10,133.1	7,429.0	53.9	59.2	82.59	2,549.9	1,927.7	550.9	457.1	93.79	5.873		
10,400.0	7,500.0	10,233.0	7,429.0	55.4	60.5	82.55	2,649.8	1,924.2	547.9	450.8	97.12	5.642		
10,500.0	7,500.0	10,333.0	7,429.0	56.9	61.9	82.51	2,749.6	1,920.7	545.0	444.5	100.46	5.425		
10,600.0	7,500.0	10,433.0	7,429.0	58.4	63.3	82.47	2,849.5	1,917.2	542.0	438.2	103.81	5.221		
10,700.0	7,500.0	10,532.9	7,429.0	60.0	64.7	82.43	2,949.4	1,913.7	539.1	431.9	107.16	5.031		
10,800.0	7,500.0	10,632.9	7,429.0	61.5	66.1	82.39	3,049.3	1,910.2	536.2	425.6	110.52	4.851		
10,900.0	7,500.0	10,732.8	7,429.0	63.1	67.5	82.34	3,149.2	1,906.7	533.2	419.3	113.89	4.682		
11,000.0	7,500.0	10,832.8	7,429.0	64.7	69.0	82.30	3,249.1	1,903.2	530.3	413.0	117.26	4.522		
11,100.0	7,500.0	10,932.7	7,429.0	66.2	70.4	82.26	3,349.0	1,899.7	527.3	406.7	120.64	4.371		
11,200.0	7,500.0	11,032.7	7,429.0	67.8	71.9	82.22	3,448.9	1,896.3	524.4	400.4	124.02	4.228		
11,300.0	7,500.0	11,132.6	7,429.0	69.4	73.4	82.17	3,548.8	1,892.8	521.5	394.1	127.40	4.093		
11,400.0	7,500.0	11,232.6	7,429.0	71.0	74.9	82.13	3,648.7	1,889.3	518.5	387.7	130.79	3.964		
11,500.0	7,500.0	11,332.6	7,429.0	72.7	76.4	82.08	3,748.6	1,885.8	515.6	381.4	134.18	3.842		
11,600.0	7,500.0	11,432.5	7,429.0	74.3	77.9	82.04	3,848.5	1,882.3	512.6	375.1	137.57	3.726		
11,700.0	7,500.0	11,532.5	7,429.0	75.9	79.5	81.99	3,948.4	1,878.8	509.7	368.7	140.97	3.616		
11,800.0	7,500.0	11,632.4	7,429.0	77.5	81.0	81.94	4,048.3	1,875.3	506.8	362.4	144.37	3.510		
11,900.0	7,500.0	11,732.4	7,429.0	79.2	82.6	81.90	4,148.2	1,871.8	503.8	356.1	147.76	3.410		
12,000.0	7,500.0	11,832.3	7,429.0	80.8	84.1	81.84	4,248.1	1,868.3	500.5	349.3	151.16	3.311		
12,020.4	7,500.0	11,834.9	7,429.0	81.2	84.2	81.84	4,250.6	1,868.3	500.1	346.5	153.59	3.256		
12,023.9	7,500.0	11,834.9	7,429.0	81.2	84.2	81.84	4,250.6	1,868.3	500.1	346.1	154.03	3.247 SF		

Anticollision Report

Company: EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference: Well HWY 4U-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 4U-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 #2	Offset TVD Reference: Offset Datum	

Reference Depths are relative to 15' KB @ 5003.0ft	Coordinates are relative to: HWY 4U-32H-O268
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is -105.500000 °	Grid Convergence at Surface is: 0.31°



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