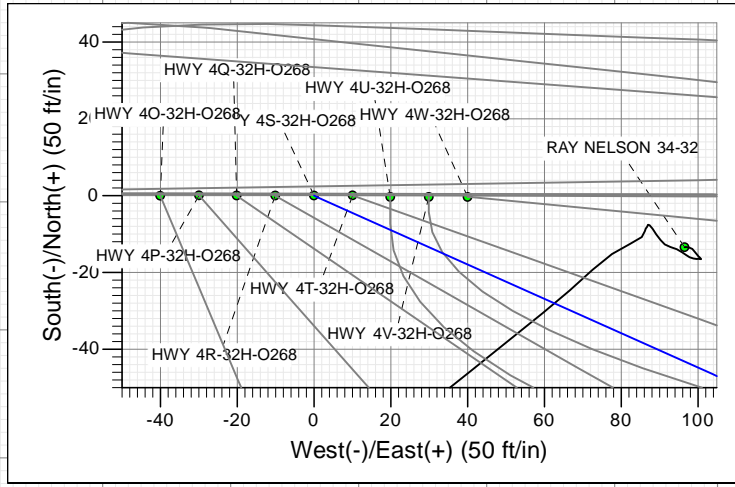
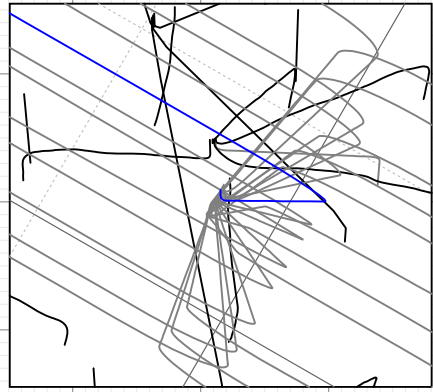
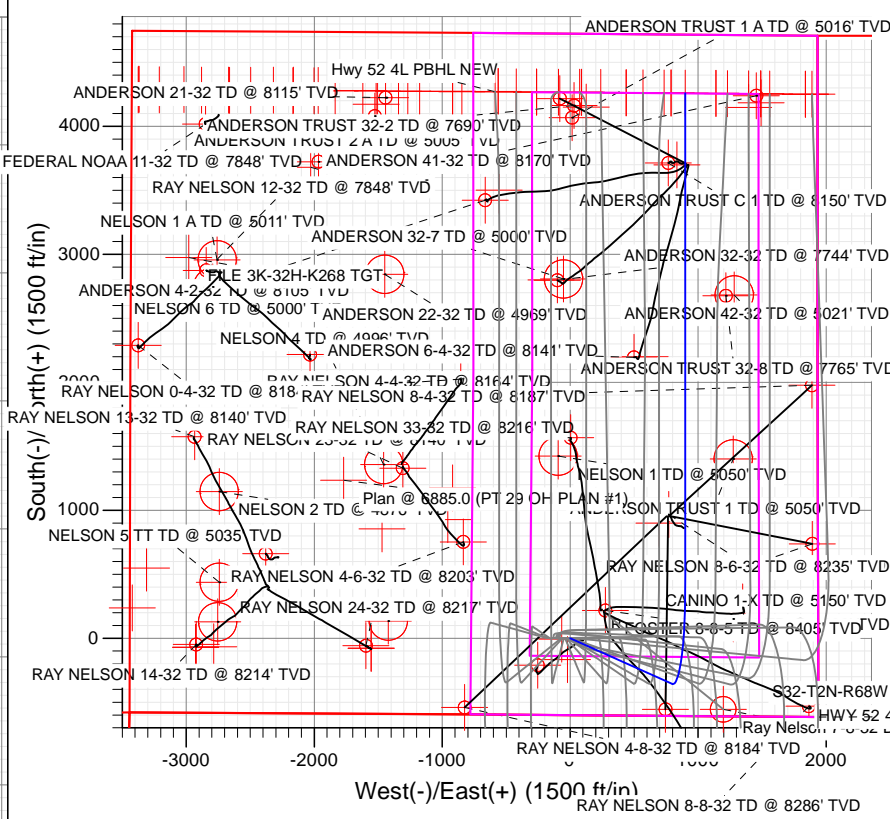
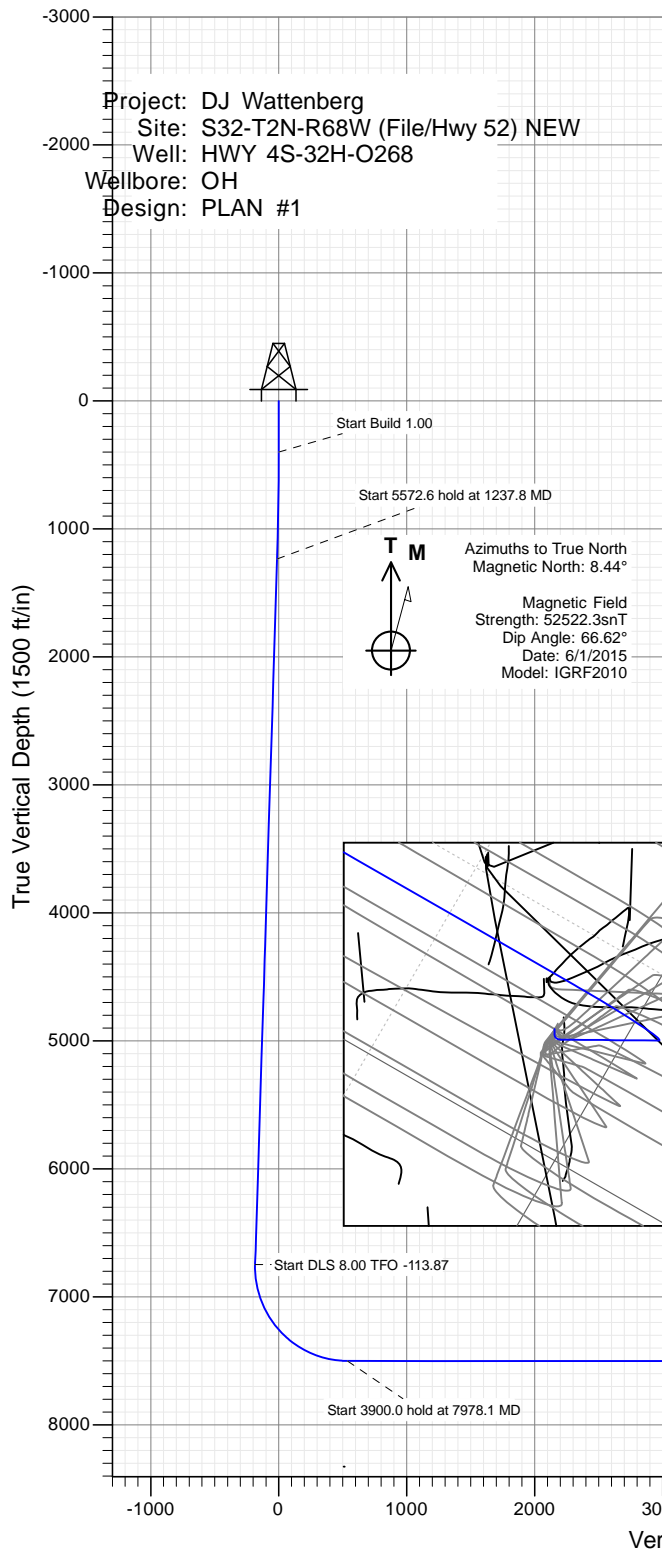




SECTION DETAILS

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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1237.8	8.38	114.10	1234.9	-25.0	55.8	1.00	114.10	-12.9	
4	6810.4	8.38	114.10	6748.0	-356.5	797.0	0.00	0.00	-184.4	
5	7978.1	90.00	0.00	7500.0	358.4	898.1	8.00	-113.87	536.0	
6	11878.1	90.00	0.00	7500.0	4258.4	898.1	0.00	0.00	4352.1	HWY 4S PBHL NEW



WELL DETAILS: HWY 4S-32H-O268

Ground Level: 4988.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1275755.27	3133004.39	40.089354	-105.024642

Planning Report

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

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

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

Well HWY 4S-32H-O268			
Well Position	+N/-S	0.0 ft	Northing: 1,275,755.27 ft
	+E/-W	0.0 ft	Easting: 3,133,004.39 ft
Position Uncertainty		0.0 ft	Wellhead Elevation: 0.0 ft
			Latitude: 40.089354
			Longitude: -105.024642
			Ground Level: 4,988.0 ft

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

Design PLAN #1				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	11.91

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,237.8	8.38	114.10	1,234.9	-25.0	55.8	1.00	1.00	0.00	114.10	
6,810.4	8.38	114.10	6,748.0	-356.5	797.0	0.00	0.00	0.00	0.00	
7,978.1	90.00	0.00	7,500.0	358.4	898.1	8.00	6.99	-9.77	-113.87	
11,878.1	90.00	0.00	7,500.0	4,258.4	898.1	0.00	0.00	0.00	0.00	HWY 4S PBHL NEW

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	Start Build 1.00
500.0	1.00	114.10	500.0	-0.4	0.8	-0.2	1.00	1.00	
600.0	2.00	114.10	600.0	-1.4	3.2	-0.7	1.00	1.00	
700.0	3.00	114.10	699.9	-3.2	7.2	-1.7	1.00	1.00	
800.0	4.00	114.10	799.7	-5.7	12.7	-2.9	1.00	1.00	
900.0	5.00	114.10	899.4	-8.9	19.9	-4.6	1.00	1.00	
1,000.0	6.00	114.10	998.9	-12.8	28.7	-6.6	1.00	1.00	
1,100.0	7.00	114.10	1,098.3	-17.4	39.0	-9.0	1.00	1.00	
1,200.0	8.00	114.10	1,197.4	-22.8	50.9	-11.8	1.00	1.00	
1,237.8	8.38	114.10	1,234.9	-25.0	55.8	-12.9	1.00	1.00	Start 5572.6 hold at 1237.8 MD
1,300.0	8.38	114.10	1,296.4	-28.7	64.1	-14.8	0.00	0.00	
1,400.0	8.38	114.10	1,395.3	-34.6	77.4	-17.9	0.00	0.00	
1,500.0	8.38	114.10	1,494.2	-40.6	90.7	-21.0	0.00	0.00	
1,600.0	8.38	114.10	1,593.2	-46.5	104.0	-24.1	0.00	0.00	
1,700.0	8.38	114.10	1,692.1	-52.5	117.3	-27.1	0.00	0.00	
1,800.0	8.38	114.10	1,791.0	-58.4	130.6	-30.2	0.00	0.00	
1,900.0	8.38	114.10	1,890.0	-64.4	143.9	-33.3	0.00	0.00	
2,000.0	8.38	114.10	1,988.9	-70.3	157.2	-36.4	0.00	0.00	
2,100.0	8.38	114.10	2,087.8	-76.3	170.5	-39.4	0.00	0.00	
2,200.0	8.38	114.10	2,186.8	-82.2	183.8	-42.5	0.00	0.00	
2,300.0	8.38	114.10	2,285.7	-88.2	197.1	-45.6	0.00	0.00	
2,400.0	8.38	114.10	2,384.6	-94.1	210.4	-48.7	0.00	0.00	
2,500.0	8.38	114.10	2,483.6	-100.1	223.7	-51.8	0.00	0.00	
2,600.0	8.38	114.10	2,582.5	-106.0	237.0	-54.8	0.00	0.00	
2,700.0	8.38	114.10	2,681.4	-112.0	250.3	-57.9	0.00	0.00	
2,800.0	8.38	114.10	2,780.4	-117.9	263.6	-61.0	0.00	0.00	
2,900.0	8.38	114.10	2,879.3	-123.9	276.9	-64.1	0.00	0.00	
3,000.0	8.38	114.10	2,978.2	-129.8	290.2	-67.1	0.00	0.00	
3,100.0	8.38	114.10	3,077.1	-135.8	303.5	-70.2	0.00	0.00	
3,200.0	8.38	114.10	3,176.1	-141.7	316.8	-73.3	0.00	0.00	
3,300.0	8.38	114.10	3,275.0	-147.7	330.1	-76.4	0.00	0.00	
3,400.0	8.38	114.10	3,373.9	-153.6	343.4	-79.4	0.00	0.00	
3,500.0	8.38	114.10	3,472.9	-159.6	356.7	-82.5	0.00	0.00	
3,600.0	8.38	114.10	3,571.8	-165.5	370.0	-85.6	0.00	0.00	
3,700.0	8.38	114.10	3,670.7	-171.5	383.3	-88.7	0.00	0.00	
3,800.0	8.38	114.10	3,769.7	-177.4	396.6	-91.8	0.00	0.00	
3,900.0	8.38	114.10	3,868.6	-183.4	409.9	-94.8	0.00	0.00	
4,000.0	8.38	114.10	3,967.5	-189.3	423.2	-97.9	0.00	0.00	
4,100.0	8.38	114.10	4,066.5	-195.3	436.5	-101.0	0.00	0.00	
4,200.0	8.38	114.10	4,165.4	-201.2	449.8	-104.1	0.00	0.00	
4,300.0	8.38	114.10	4,264.3	-207.2	463.1	-107.1	0.00	0.00	
4,400.0	8.38	114.10	4,363.3	-213.1	476.4	-110.2	0.00	0.00	
4,500.0	8.38	114.10	4,462.2	-219.1	489.7	-113.3	0.00	0.00	
4,600.0	8.38	114.10	4,561.1	-225.0	503.0	-116.4	0.00	0.00	
4,700.0	8.38	114.10	4,660.1	-231.0	516.3	-119.4	0.00	0.00	
4,800.0	8.38	114.10	4,759.0	-236.9	529.6	-122.5	0.00	0.00	
4,900.0	8.38	114.10	4,857.9	-242.9	542.9	-125.6	0.00	0.00	
5,000.0	8.38	114.10	4,956.9	-248.8	556.2	-128.7	0.00	0.00	

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,100.0	8.38	114.10	5,055.8	-254.8	569.5	-131.8	0.00	0.00	
5,200.0	8.38	114.10	5,154.7	-260.7	582.8	-134.8	0.00	0.00	
5,300.0	8.38	114.10	5,253.7	-266.7	596.1	-137.9	0.00	0.00	
5,400.0	8.38	114.10	5,352.6	-272.6	609.4	-141.0	0.00	0.00	
5,500.0	8.38	114.10	5,451.5	-278.6	622.7	-144.1	0.00	0.00	
5,600.0	8.38	114.10	5,550.5	-284.5	636.0	-147.1	0.00	0.00	
5,700.0	8.38	114.10	5,649.4	-290.5	649.3	-150.2	0.00	0.00	
5,800.0	8.38	114.10	5,748.3	-296.4	662.6	-153.3	0.00	0.00	
5,900.0	8.38	114.10	5,847.3	-302.4	675.9	-156.4	0.00	0.00	
6,000.0	8.38	114.10	5,946.2	-308.3	689.2	-159.4	0.00	0.00	
6,100.0	8.38	114.10	6,045.1	-314.3	702.5	-162.5	0.00	0.00	
6,200.0	8.38	114.10	6,144.1	-320.2	715.8	-165.6	0.00	0.00	
6,300.0	8.38	114.10	6,243.0	-326.2	729.1	-168.7	0.00	0.00	
6,400.0	8.38	114.10	6,341.9	-332.1	742.4	-171.8	0.00	0.00	
6,500.0	8.38	114.10	6,440.9	-338.1	755.7	-174.8	0.00	0.00	
6,600.0	8.38	114.10	6,539.8	-344.0	769.0	-177.9	0.00	0.00	
6,700.0	8.38	114.10	6,638.7	-350.0	782.3	-181.0	0.00	0.00	
6,800.0	8.38	114.10	6,737.7	-355.9	795.6	-184.1	0.00	0.00	
6,810.4	8.38	114.10	6,748.0	-356.5	797.0	-184.4	0.00	0.00	Start DLS 8.00 TFO -113.87
6,900.0	8.52	63.77	6,836.7	-356.3	808.9	-181.7	8.00	0.16	
7,000.0	14.00	32.63	6,934.8	-342.8	822.1	-165.7	8.00	5.48	
7,100.0	21.13	20.35	7,030.1	-315.6	834.9	-136.5	8.00	7.13	
7,200.0	28.71	14.21	7,120.8	-275.4	847.1	-94.6	8.00	7.58	
7,300.0	36.46	10.48	7,205.0	-222.8	858.5	-40.8	8.00	7.75	
7,400.0	44.29	7.92	7,281.1	-158.9	868.7	23.8	8.00	7.83	
7,500.0	52.16	6.00	7,347.7	-84.9	877.6	98.0	8.00	7.87	
7,600.0	60.05	4.44	7,403.4	-2.3	885.1	180.4	8.00	7.90	
7,700.0	67.96	3.12	7,447.2	87.3	891.0	269.3	8.00	7.91	
7,800.0	75.89	1.94	7,478.2	182.2	895.2	363.0	8.00	7.92	
7,900.0	83.81	0.84	7,495.8	280.5	897.6	459.7	8.00	7.93	
7,978.1	90.00	0.00	7,500.0	358.4	898.1	536.0	8.00	7.93	Start 3900.0 hold at 7978.1 MD
8,000.0	90.00	0.00	7,500.0	380.4	898.1	557.5	0.00	0.00	
8,100.0	90.00	0.00	7,500.0	480.4	898.1	655.4	0.00	0.00	
8,200.0	90.00	0.00	7,500.0	580.4	898.1	753.2	0.00	0.00	
8,300.0	90.00	0.00	7,500.0	680.4	898.1	851.1	0.00	0.00	
8,400.0	90.00	0.00	7,500.0	780.4	898.1	948.9	0.00	0.00	
8,500.0	90.00	0.00	7,500.0	880.4	898.1	1,046.8	0.00	0.00	
8,600.0	90.00	0.00	7,500.0	980.4	898.1	1,144.6	0.00	0.00	
8,700.0	90.00	0.00	7,500.0	1,080.4	898.1	1,242.4	0.00	0.00	
8,800.0	90.00	0.00	7,500.0	1,180.4	898.1	1,340.3	0.00	0.00	
8,900.0	90.00	0.00	7,500.0	1,280.4	898.1	1,438.1	0.00	0.00	
9,000.0	90.00	0.00	7,500.0	1,380.4	898.1	1,536.0	0.00	0.00	
9,100.0	90.00	0.00	7,500.0	1,480.4	898.1	1,633.8	0.00	0.00	
9,200.0	90.00	0.00	7,500.0	1,580.4	898.1	1,731.7	0.00	0.00	
9,300.0	90.00	0.00	7,500.0	1,680.4	898.1	1,829.5	0.00	0.00	
9,400.0	90.00	0.00	7,500.0	1,780.4	898.1	1,927.4	0.00	0.00	
9,500.0	90.00	0.00	7,500.0	1,880.4	898.1	2,025.2	0.00	0.00	
9,600.0	90.00	0.00	7,500.0	1,980.4	898.1	2,123.1	0.00	0.00	
9,700.0	90.00	0.00	7,500.0	2,080.4	898.1	2,220.9	0.00	0.00	
9,800.0	90.00	0.00	7,500.0	2,180.4	898.1	2,318.8	0.00	0.00	
9,900.0	90.00	0.00	7,500.0	2,280.4	898.1	2,416.6	0.00	0.00	
10,000.0	90.00	0.00	7,500.0	2,380.4	898.1	2,514.5	0.00	0.00	

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
10,100.0	90.00	0.00	7,500.0	2,480.4	898.1	2,612.3	0.00	0.00	
10,200.0	90.00	0.00	7,500.0	2,580.4	898.1	2,710.2	0.00	0.00	
10,300.0	90.00	0.00	7,500.0	2,680.4	898.1	2,808.0	0.00	0.00	
10,400.0	90.00	0.00	7,500.0	2,780.4	898.1	2,905.9	0.00	0.00	
10,500.0	90.00	0.00	7,500.0	2,880.4	898.1	3,003.7	0.00	0.00	
10,600.0	90.00	0.00	7,500.0	2,980.4	898.1	3,101.6	0.00	0.00	
10,700.0	90.00	0.00	7,500.0	3,080.4	898.1	3,199.4	0.00	0.00	
10,800.0	90.00	0.00	7,500.0	3,180.4	898.1	3,297.2	0.00	0.00	
10,900.0	90.00	0.00	7,500.0	3,280.4	898.1	3,395.1	0.00	0.00	
11,000.0	90.00	0.00	7,500.0	3,380.4	898.1	3,492.9	0.00	0.00	
11,100.0	90.00	0.00	7,500.0	3,480.4	898.1	3,590.8	0.00	0.00	
11,200.0	90.00	0.00	7,500.0	3,580.4	898.1	3,688.6	0.00	0.00	
11,300.0	90.00	0.00	7,500.0	3,680.4	898.1	3,786.5	0.00	0.00	
11,400.0	90.00	0.00	7,500.0	3,780.4	898.1	3,884.3	0.00	0.00	
11,500.0	90.00	0.00	7,500.0	3,880.4	898.1	3,982.2	0.00	0.00	
11,600.0	90.00	0.00	7,500.0	3,980.4	898.1	4,080.0	0.00	0.00	
11,700.0	90.00	0.00	7,500.0	4,080.4	898.1	4,177.9	0.00	0.00	
11,800.0	90.00	0.00	7,500.0	4,180.4	898.1	4,275.7	0.00	0.00	
11,878.1	90.00	0.00	7,500.0	4,258.4	898.1	4,352.1	0.00	0.00	TD at 11878.1 - HWY 4S PBHL NEW

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
HWY 4S PBHL NEW - hit/miss target - Shape - Point	0.00	0.00	7,500.0	4,258.4	898.1	1,280,018.42	3,133,879.67	40.101044	-105.021431

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	Start Build 1.00
1,237.8	1,234.9	-25.0	55.8	Start 5572.6 hold at 1237.8 MD
6,810.4	6,748.0	-356.5	797.0	Start DLS 8.00 TFO -113.87
7,978.1	7,500.0	358.4	898.1	Start 3900.0 hold at 7978.1 MD
11,878.1	7,500.0	4,258.4	898.1	TD at 11878.1

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4S-32H-O268

OH

PLAN #1

Anticollision Report

09 June, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	6/9/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,878.1	PLAN #1 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
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	11,836.5	7,551.1	978.5	885.8	10.554	CC, ES
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	11,878.1	7,551.1	979.4	886.3	10.514	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,300.0	7,622.3	996.6	922.3	13.415	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,400.0	7,624.1	990.4	917.0	13.489	ES
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,411.4	7,624.3	990.4	917.1	13.513	CC
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,858.5	7,392.0	556.2	466.1	6.174	CC
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,878.1	7,392.0	556.6	465.7	6.121	ES, SF
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS						Out of range
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,800.0	7,696.5	389.4	317.0	5.376	ES, SF
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,817.1	7,696.4	389.0	317.2	5.415	CC
ANDERSON TRUST 1 - KPK WELL - NO SURVEYS						Out of range
ANDERSON TRUST 1 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 2 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS	11,781.2	7,438.0	867.6	778.8	9.766	CC, ES, SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,295.4	7,459.0	318.3	254.9	5.019	CC
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,300.0	7,459.0	318.3	254.6	4.997	ES
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,400.0	7,459.0	335.0	267.5	4.962	SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,340.1	7,442.9	121.2	39.9	1.491	Level 3, CC, ES, SF
ANDERSON TRUST C UNIT 2 - ENCANA WELL - NO SURVEYS						Out of range
BROWN 22-5 - ENCANA - SURVEYS						Out of range
BROWN 31-5 - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,409.5	1,389.8	245.5	238.5	35.131	CC, ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,700.0	1,659.7	261.5	253.1	30.919	SF
BROWN 5-3 - ENCANA - SURVEYS						Out of range
BROWN 5-5 - ENCANA - SURVEYS						Out of range
BROWN C UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
BROWN C UNIT 2 - ENCANA - SURVEYS						Out of range
BULTHAUP 39-6 - KERR-MCGEE WELL - SURVEYS						Out of range
BULTHAUP 40-6 - KERR-MCGEE WELL - SURVEYS						Out of range
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,183.5	5,034.0	809.0	787.3	37.338	CC, ES
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,200.0	5,034.0	809.1	787.4	37.294	SF
FEDERAL NOAA 11-32 - ENCANA - SURVEYS						Out of range
FOSTER 33-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 43-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5X - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 8-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER E UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
GENE 11-5 - KERR-MCGEE - SURVEYS						Out of range
HIGHLAND 21-5 - KPK WELL - NO SURVEYS						Out of range
HOPE 31-5 - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 - KPK WELL - NO SURVEYS						Out of range
NELSON 1 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 1 A - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 2 - TEXAS TEA WELL - NO SURVEYS						Out of range

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
NELSON 3 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 4 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 5 - VESSELS WELL - NO SURVEYS						Out of range
NELSON 5 TT - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	8,572.9	7,452.6	118.7	83.0	3.321	CC, ES, SF
PAQUETTE 13-5 - KERR-MCGEE - SURVEYS						Out of range
PAQUETTE 14-5 - KERR-MCGEE - SURVEYS						Out of range
RAY NELSON 0-4-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 12-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 13-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 14-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 23-32 - ENCANA WELL - NO SURVEYS						Out of range
RAY NELSON 24-32 - ENCANA WELL - SURVEYS						Out of range
RAY NELSON 2-4-32 - ENCANA - SURVEYS						Out of range
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	1,119.9	1,100.0	309.5	305.5	77.018	CC, ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	9,200.0	7,677.8	892.5	833.6	15.165	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,457.9	1,444.5	25.7	20.1	4.618	CC, ES, SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	152.4	143.4	335.5	335.0	721.344	CC, ES
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	8,100.0	7,628.0	522.1	484.9	14.032	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	3,534.0	3,701.4	564.7	536.5	20.057	CC, ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,900.0	4,026.0	589.4	558.1	18.831	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,000.0	6,070.1	61.1	24.9	1.689	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,075.5	6,143.2	58.2	24.3	1.717	CC, ES
RAY NELSON 7-8-32 - DD - Plan #1	1,503.3	1,471.0	330.4	323.9	50.769	CC
RAY NELSON 7-8-32 - DD - Plan #1	1,700.0	1,666.9	330.9	323.3	43.366	ES
RAY NELSON 7-8-32 - DD - Plan #1	7,250.0	7,281.9	458.2	431.2	16.968	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,596.1	7,657.7	990.7	929.5	16.180	CC
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,600.0	7,657.7	990.7	929.3	16.132	ES
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	9,700.0	7,657.7	996.1	930.2	15.117	SF
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,357.8	7,567.6	993.7	960.3	29.766	CC, ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	8,400.0	7,567.6	994.6	960.4	29.095	SF
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	337.2			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	4,000.0	3,868.6	946.2	929.6	57.000	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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	179.9	179.5	505.351	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	179.9	179.3	277.135	ES
HWY 4A-32H-O268 - OH - PLAN #1	4,500.0	4,402.2	997.0	981.5	64.366	SF
HWY 4B-32H-O268 - OH - PLAN #1	216.3	217.3	170.1	169.4	241.458	CC
HWY 4B-32H-O268 - OH - PLAN #1	300.0	300.0	170.1	169.1	171.000	ES
HWY 4B-32H-O268 - OH - PLAN #1	5,000.0	4,915.4	986.3	969.1	57.236	SF
HWY 4C-32H-O268 - OH - PLAN #1	216.3	217.3	160.0	159.3	227.161	CC
HWY 4C-32H-O268 - OH - PLAN #1	300.0	300.0	160.0	159.0	160.875	ES
HWY 4C-32H-O268 - OH - PLAN #1	5,700.0	5,626.9	993.4	973.7	50.455	SF
HWY 4D-32H-O268 - OH - PLAN #1	755.8	765.3	148.8	146.2	57.152	CC, ES
HWY 4D-32H-O268 - OH - PLAN #1	7,500.0	7,402.7	636.2	609.9	24.209	SF
HWY 4E-32H-O268 - OH - PLAN #1	919.6	932.4	138.0	134.8	43.321	CC, ES
HWY 4E-32H-O268 - OH - PLAN #1	7,350.0	7,329.3	439.8	412.5	16.110	SF
HWY 4F-32H-O268 - OH - PLAN #1	116.3	117.3	130.1	129.7	366.020	CC
HWY 4F-32H-O268 - OH - PLAN #1	400.0	400.9	130.2	128.8	96.299	ES
HWY 4F-32H-O268 - OH - PLAN #1	7,500.0	7,428.9	251.4	224.6	9.383	SF
HWY 4G-32H-O268 - OH - PLAN #1	7,300.0	7,364.7	80.7	49.6	2.597	SF
HWY 4G-32H-O268 - OH - PLAN #1	7,339.0	7,369.9	70.9	44.1	2.646	CC, ES
HWY 4H-32H-O268 - OH - Plan #1	316.3	317.3	110.0	108.9	104.365	CC
HWY 4H-32H-O268 - OH - Plan #1	400.0	401.0	110.0	108.6	81.712	ES
HWY 4H-32H-O268 - OH - Plan #1	7,400.0	7,409.2	223.5	190.8	6.825	SF
HWY 4I-32H-O268 - OH - PLAN #1	305.9	305.9	100.2	99.1	98.626	CC
HWY 4I-32H-O268 - OH - PLAN #1	400.0	400.0	100.2	98.8	74.529	ES
HWY 4I-32H-O268 - OH - PLAN #1	3,200.0	3,219.0	149.5	131.5	8.293	SF
HWY 4J-32H-O268 - OH - PLAN #1	300.0	300.0	90.1	89.1	90.559	CC
HWY 4J-32H-O268 - OH - PLAN #1	400.0	399.9	90.1	88.8	66.922	ES
HWY 4J-32H-O268 - OH - PLAN #1	2,000.0	2,015.5	139.1	128.6	13.210	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	80.0	79.4	123.913	CC
HWY 4K-32H-O268 - OH - PLAN #1	400.0	399.7	80.3	79.0	58.757	ES
HWY 4K-32H-O268 - OH - PLAN #1	1,700.0	1,712.7	120.7	112.0	13.958	SF
HWY 4L-32H-O268 - OH - PLAN #1	400.0	400.0	69.9	68.6	52.048	CC, ES
HWY 4L-32H-O268 - OH - PLAN #1	900.0	897.7	91.7	88.6	29.660	SF
HWY 4M-32H-O268 - OH - PLAN #1	400.0	400.0	60.2	58.8	44.762	CC, ES
HWY 4M-32H-O268 - OH - PLAN #1	900.0	898.5	81.1	78.0	26.223	SF
HWY 4N-32H-O268 - OH - PLAN #1	400.0	400.0	50.1	48.7	37.266	CC, ES
HWY 4N-32H-O268 - OH - PLAN #1	900.0	898.8	71.4	68.3	23.031	SF
HWY 4O-32H-O268 - OH - PLAN #1	400.0	400.0	40.0	38.7	29.771	CC, ES
HWY 4O-32H-O268 - OH - PLAN #1	11,767.2	11,627.4	777.3	626.7	5.163	SF
HWY 4P-32H-O268 - OH - PLAN #1	400.0	400.0	29.9	28.6	22.276	CC, ES
HWY 4P-32H-O268 - OH - PLAN #1	11,878.1	11,811.0	659.8	505.3	4.271	SF
HWY 4Q-32H-O268 - OH - PLAN #1	400.0	400.0	20.1	18.8	14.990	CC, ES
HWY 4Q-32H-O268 - OH - PLAN #1	11,878.1	11,839.7	330.0	175.2	2.132	SF
HWY 4R-32H-O268 - OH - PLAN #1	400.0	400.0	10.1	8.7	7.495	CC, ES
HWY 4R-32H-O268 - OH - PLAN #1	11,878.1	11,857.5	164.9	9.6	1.062	Level 2, SF
HWY 4T-32H-O268 - OH - PLAN #1	303.4	303.4	10.1	9.1	10.005	CC
HWY 4T-32H-O268 - OH - PLAN #1	400.0	399.9	10.3	8.9	7.650	ES
HWY 4T-32H-O268 - OH - PLAN #1	11,878.1	11,927.8	330.0	174.7	2.125	SF
HWY 4U-32H-O268 - OH - PLAN #1	300.0	300.0	19.9	18.9	19.971	CC, ES
HWY 4U-32H-O268 - OH - PLAN #1	11,878.1	11,956.7	495.0	339.7	3.187	SF
HWY 4V-32H-O268 - OH - PLAN #1	203.3	203.3	29.9	29.3	45.538	CC
HWY 4V-32H-O268 - OH - PLAN #1	300.0	299.7	30.1	29.2	30.320	ES
HWY 4V-32H-O268 - OH - PLAN #1	11,878.1	11,988.8	660.0	504.7	4.249	SF
HWY 4W-32H-O268 - OH - PLAN #1	200.0	200.0	40.0	39.4	61.958	CC, ES

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4W-32H-O268 - OH - PLAN #1	11,878.1	11,834.9	992.6	837.6	6.403	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:		0.0 ft
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			
11,700.0	7,500.0	7,551.1	7,447.0	76.1	23.6	-90.00	4,216.9	-80.4	988.0	897.5	90.54	10.912			
11,800.0	7,500.0	7,551.1	7,447.0	77.8	23.6	-90.00	4,216.9	-80.4	979.2	887.0	92.25	10.615			
11,836.5	7,500.0	7,551.1	7,447.0	78.4	23.6	-90.00	4,216.9	-80.4	978.5	885.8	92.72	10.554	CC, ES		
11,878.1	7,500.0	7,551.1	7,447.0	79.1	23.6	-90.00	4,216.9	-80.4	979.4	886.3	93.15	10.514	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 32-32 - 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	
10,300.0	7,500.0	7,622.3	7,417.2	52.9	27.6	-88.28	2,791.7	-91.8	996.6	922.3	74.29	13.415 SF		
10,400.0	7,500.0	7,624.1	7,419.0	54.5	27.6	-88.38	2,791.7	-91.8	990.4	917.0	73.42	13.489 ES		
10,411.4	7,500.0	7,624.3	7,419.2	54.7	27.6	-88.39	2,791.7	-91.8	990.4	917.1	73.29	13.513 CC		
10,500.0	7,500.0	7,625.8	7,420.7	56.1	27.6	-88.48	2,791.7	-91.9	994.3	922.3	72.02	13.806		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 41-32 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8170-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	
11,100.0	7,500.0	7,392.0	7,392.0	66.0	12.9	90.00	4,238.8	1,454.4	940.6	897.6	42.99	21.878		
11,200.0	7,500.0	7,392.0	7,392.0	67.7	12.9	90.00	4,238.8	1,454.4	862.0	814.8	47.21	18.257		
11,300.0	7,500.0	7,392.0	7,392.0	69.4	12.9	90.00	4,238.8	1,454.4	788.3	735.9	52.36	15.055		
11,400.0	7,500.0	7,392.0	7,392.0	71.1	12.9	90.00	4,238.8	1,454.4	720.9	662.4	58.47	12.330		
11,500.0	7,500.0	7,392.0	7,392.0	72.7	12.9	90.00	4,238.8	1,454.4	661.8	596.3	65.46	10.109		
11,600.0	7,500.0	7,392.0	7,392.0	74.4	12.9	90.00	4,238.8	1,454.4	613.4	540.3	73.04	8.398		
11,700.0	7,500.0	7,392.0	7,392.0	76.1	12.9	90.00	4,238.8	1,454.4	578.4	497.8	80.56	7.180		
11,800.0	7,500.0	7,392.0	7,392.0	77.8	12.9	90.00	4,238.8	1,454.4	559.3	472.2	87.10	6.421		
11,858.5	7,500.0	7,392.0	7,392.0	78.8	12.9	90.00	4,238.8	1,454.4	556.2	466.1	90.10	6.174 CC		
11,878.1	7,500.0	7,392.0	7,392.0	79.1	12.9	90.00	4,238.8	1,454.4	556.6	465.7	90.93	6.121 ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON 6-4-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 71-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,900.0	7,500.0	7,698.0	7,454.8	31.7	30.4	-89.24	2,197.4	509.2	996.2	946.5	49.64	20.067		
9,000.0	7,500.0	7,698.0	7,454.8	33.1	30.4	-89.24	2,197.4	509.2	905.0	853.4	51.60	17.537		
9,100.0	7,500.0	7,697.8	7,454.6	34.5	30.4	-89.21	2,197.4	509.2	815.8	761.9	53.92	15.131		
9,200.0	7,500.0	7,697.6	7,454.4	35.9	30.4	-89.18	2,197.4	509.2	729.5	672.8	56.67	12.873		
9,300.0	7,500.0	7,697.4	7,454.2	37.4	30.4	-89.15	2,197.4	509.2	647.1	587.2	59.91	10.801		
9,400.0	7,500.0	7,697.2	7,454.0	38.8	30.4	-89.12	2,197.4	509.2	570.3	506.7	63.64	8.962		
9,500.0	7,500.0	7,697.0	7,453.9	40.3	30.4	-89.10	2,197.4	509.2	501.9	434.2	67.68	7.416		
9,600.0	7,500.0	7,696.9	7,453.7	41.8	30.4	-89.07	2,197.4	509.2	445.5	374.1	71.40	6.240		
9,700.0	7,500.0	7,696.7	7,453.5	43.4	30.4	-89.04	2,197.4	509.2	406.2	332.7	73.52	5.526		
9,800.0	7,500.0	7,696.5	7,453.3	44.9	30.4	-89.01	2,197.4	509.2	389.4	317.0	72.42	5.376 ES, SF		
9,817.1	7,500.0	7,696.4	7,453.3	45.2	30.4	-89.01	2,197.4	509.2	389.0	317.2	71.84	5.415 CC		
9,900.0	7,500.0	7,696.3	7,453.1	46.5	30.4	-88.99	2,197.4	509.2	397.7	330.2	67.55	5.888		
10,000.0	7,500.0	7,696.1	7,452.9	48.1	30.4	-88.96	2,197.4	509.2	429.8	369.5	60.34	7.124		
10,100.0	7,500.0	7,695.9	7,452.7	49.7	30.4	-88.93	2,197.4	509.2	481.0	428.1	52.92	9.089		
10,200.0	7,500.0	7,695.7	7,452.6	51.3	30.4	-88.90	2,197.4	509.2	545.8	499.2	46.65	11.701		
10,300.0	7,500.0	7,695.6	7,452.4	52.9	30.4	-88.88	2,197.4	509.2	620.1	578.2	41.88	14.808		
10,400.0	7,500.0	7,695.4	7,452.2	54.5	30.4	-88.85	2,197.4	509.2	700.8	662.3	38.46	18.221		
10,500.0	7,500.0	7,695.2	7,452.0	56.1	30.4	-88.83	2,197.4	509.2	785.9	749.8	36.10	21.769		
10,600.0	7,500.0	7,695.0	7,451.8	57.8	30.4	-88.80	2,197.4	509.2	874.2	839.7	34.53	25.321		
10,700.0	7,500.0	7,694.9	7,451.7	59.4	30.4	-88.77	2,197.5	509.2	964.8	931.3	33.50	28.799		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST 32-2 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 7690-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,300.0	7,500.0	7,438.0	7,438.0	69.4	13.0	-90.00	4,161.6	30.5	992.2	912.1	80.09	12.389		
11,400.0	7,500.0	7,438.0	7,438.0	71.1	13.0	-90.00	4,161.6	30.5	947.7	864.7	82.96	11.423		
11,500.0	7,500.0	7,438.0	7,438.0	72.7	13.0	-90.00	4,161.6	30.5	912.1	826.6	85.47	10.671		
11,600.0	7,500.0	7,438.0	7,438.0	74.4	13.0	-90.00	4,161.6	30.5	886.4	799.0	87.40	10.142		
11,700.0	7,500.0	7,438.0	7,438.0	76.1	13.0	-90.00	4,161.6	30.5	871.4	782.9	88.56	9.840		
11,781.2	7,500.0	7,438.0	7,438.0	77.5	13.0	-90.00	4,161.6	30.5	867.6	778.8	88.84	9.766	CC, ES, SF	
11,800.0	7,500.0	7,438.0	7,438.0	77.8	13.0	-90.00	4,161.6	30.5	867.8	779.0	88.82	9.771		
11,878.1	7,500.0	7,438.0	7,438.0	79.1	13.0	-90.00	4,161.6	30.5	873.0	784.6	88.38	9.878		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 7765-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						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		
9,400.0	7,500.0	7,459.0	7,459.0	38.8	13.0	90.00	2,675.7	1,216.4	950.3	920.4	29.82	31.866		
9,500.0	7,500.0	7,459.0	7,459.0	40.3	13.0	90.00	2,675.7	1,216.4	856.7	827.1	29.57	28.972		
9,600.0	7,500.0	7,459.0	7,459.0	41.8	13.0	90.00	2,675.7	1,216.4	764.7	735.2	29.56	25.868		
9,700.0	7,500.0	7,459.0	7,459.0	43.4	13.0	90.00	2,675.7	1,216.4	675.1	645.0	30.06	22.459		
9,800.0	7,500.0	7,459.0	7,459.0	44.9	13.0	90.00	2,675.7	1,216.4	588.8	557.3	31.48	18.705		
9,900.0	7,500.0	7,459.0	7,459.0	46.5	13.0	90.00	2,675.7	1,216.4	507.6	473.2	34.40	14.756		
10,000.0	7,500.0	7,459.0	7,459.0	48.1	13.0	90.00	2,675.7	1,216.4	434.2	394.8	39.42	11.015		
10,100.0	7,500.0	7,459.0	7,459.0	49.7	13.0	90.00	2,675.7	1,216.4	373.4	326.6	46.84	7.973		
10,200.0	7,500.0	7,459.0	7,459.0	51.3	13.0	90.00	2,675.7	1,216.4	332.2	276.4	55.84	5.950		
10,295.4	7,500.0	7,459.0	7,459.0	52.8	13.0	90.00	2,675.7	1,216.4	318.3	254.9	63.41	5.019 CC		
10,300.0	7,500.0	7,459.0	7,459.0	52.9	13.0	90.00	2,675.7	1,216.4	318.3	254.6	63.70	4.997 ES		
10,400.0	7,500.0	7,459.0	7,459.0	54.5	13.0	90.00	2,675.7	1,216.4	335.0	267.5	67.52	4.962 SF		
10,500.0	7,500.0	7,459.0	7,459.0	56.1	13.0	90.00	2,675.7	1,216.4	378.4	311.0	67.33	5.620		
10,600.0	7,500.0	7,459.0	7,459.0	57.8	13.0	90.00	2,675.7	1,216.4	440.6	375.4	65.13	6.764		
10,700.0	7,500.0	7,459.0	7,459.0	59.4	13.0	90.00	2,675.7	1,216.4	514.8	452.3	62.47	8.240		
10,800.0	7,500.0	7,459.0	7,459.0	61.1	13.0	90.00	2,675.7	1,216.4	596.6	536.6	60.00	9.943		
10,900.0	7,500.0	7,459.0	7,459.0	62.7	13.0	90.00	2,675.7	1,216.4	683.3	625.4	57.90	11.801		
11,000.0	7,500.0	7,459.0	7,459.0	64.4	13.0	90.00	2,675.7	1,216.4	773.2	717.0	56.15	13.769		
11,100.0	7,500.0	7,459.0	7,459.0	66.0	13.0	90.00	2,675.7	1,216.4	865.3	810.6	54.71	15.815		
11,200.0	7,500.0	7,459.0	7,459.0	67.7	13.0	90.00	2,675.7	1,216.4	959.0	905.5	53.52	17.917		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance				Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
10,400.0	7,500.0	7,458.8	7,457.2	54.5	13.2	-96.67	3,720.2	776.7	947.7	906.4	41.35	22.919			
10,500.0	7,500.0	7,457.0	7,455.3	56.1	13.2	-95.79	3,720.2	776.8	848.7	806.5	42.18	20.119			
10,600.0	7,500.0	7,455.1	7,453.5	57.8	13.2	-94.93	3,720.2	776.8	749.8	706.6	43.22	17.351			
10,700.0	7,500.0	7,453.3	7,451.7	59.4	13.1	-94.09	3,720.3	776.8	651.4	606.8	44.54	14.623			
10,800.0	7,500.0	7,451.6	7,449.9	61.1	13.1	-93.28	3,720.3	776.8	553.4	507.1	46.32	11.947			
10,900.0	7,500.0	7,449.9	7,448.2	62.7	13.1	-92.47	3,720.3	776.9	456.4	407.6	48.84	9.345			
11,000.0	7,500.0	7,448.2	7,446.6	64.4	13.1	-91.69	3,720.3	776.9	361.0	308.3	52.64	6.857			
11,100.0	7,500.0	7,446.6	7,445.0	66.0	13.1	-90.93	3,720.4	776.9	268.9	210.0	58.85	4.569			
11,200.0	7,500.0	7,445.0	7,443.4	67.7	13.1	-90.18	3,720.4	776.9	185.2	115.7	69.53	2.663			
11,300.0	7,500.0	7,443.5	7,441.8	69.4	13.1	-89.45	3,720.4	777.0	127.6	45.4	82.18	1.553			
11,340.1	7,500.0	7,442.9	7,441.2	70.1	13.1	-89.16	3,720.4	777.0	121.2	39.9	81.23	1.491	Level 3, CC, ES, SF		
11,400.0	7,500.0	7,442.0	7,440.3	71.1	13.1	-88.74	3,720.4	777.0	135.2	66.1	69.06	1.957			
11,500.0	7,500.0	7,440.5	7,438.9	72.7	13.1	-88.04	3,720.5	777.0	200.6	153.0	47.61	4.214			
11,600.0	7,500.0	7,439.1	7,437.4	74.4	13.1	-87.36	3,720.5	777.0	286.7	248.9	37.80	7.586			
11,700.0	7,500.0	7,437.7	7,436.0	76.1	13.1	-86.70	3,720.5	777.1	379.7	345.5	34.20	11.103			
11,800.0	7,500.0	7,436.3	7,434.6	77.8	13.1	-86.05	3,720.5	777.1	475.6	442.5	33.09	14.370			
11,878.1	7,500.0	7,435.2	7,433.6	79.1	13.1	-85.55	3,720.5	777.1	551.4	518.5	32.93	16.745			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	52.45	202.6	263.6	332.6					
100.0	100.0	88.6	88.6	0.1	0.1	52.52	202.6	264.1	332.9	332.6	0.28	1,201.781		
200.0	200.0	188.2	188.2	0.3	0.3	52.63	202.5	265.2	333.7	333.1	0.63	533.131		
300.0	300.0	289.5	289.5	0.5	0.5	52.78	202.2	266.3	334.4	333.4	0.98	341.950		
400.0	400.0	399.6	399.5	0.7	0.7	53.13	199.9	266.5	333.3	331.9	1.35	247.032		
500.0	500.0	507.4	507.2	0.8	0.9	-60.26	193.3	266.3	329.0	327.3	1.73	190.211		
600.0	600.0	615.8	614.8	1.0	1.2	-58.97	181.2	266.7	321.5	319.4	2.15	149.473		
700.0	699.9	719.8	717.4	1.2	1.5	-57.09	164.3	267.7	310.9	308.3	2.62	118.570		
800.0	799.7	814.1	810.2	1.4	1.8	-55.16	147.4	269.7	299.8	296.7	3.11	96.503		
900.0	899.4	911.7	906.0	1.6	2.1	-53.00	129.2	273.5	289.2	285.6	3.64	79.392		
1,000.0	998.9	1,012.3	1,004.4	1.8	2.5	-50.46	108.7	278.3	278.0	273.8	4.25	65.411		
1,100.0	1,098.3	1,109.5	1,098.4	2.1	3.0	-47.09	84.7	284.5	266.0	261.1	4.93	53.931		
1,200.0	1,197.4	1,200.4	1,185.6	2.3	3.4	-43.35	60.6	292.5	255.6	250.0	5.62	45.509		
1,237.8	1,234.9	1,234.6	1,218.4	2.4	3.6	-41.85	51.4	296.3	252.4	246.5	5.88	42.918		
1,300.0	1,296.4	1,290.9	1,272.0	2.6	3.9	-39.19	36.0	303.3	248.3	242.0	6.30	39.405		
1,400.0	1,395.3	1,381.3	1,358.1	2.9	4.4	-34.82	11.9	316.8	245.5	238.6	6.93	35.422		
1,409.5	1,404.7	1,389.8	1,366.2	2.9	4.4	-34.41	9.6	318.2	245.5	238.5	6.99	35.131 CC, ES		
1,500.0	1,494.2	1,472.1	1,444.3	3.2	4.9	-30.45	-11.7	333.0	247.4	239.9	7.50	32.990		
1,600.0	1,593.2	1,566.5	1,533.5	3.5	5.4	-25.88	-36.6	351.6	252.9	244.9	8.02	31.526		
1,700.0	1,692.1	1,659.7	1,621.3	3.8	6.0	-21.74	-60.5	371.3	261.5	253.1	8.46	30.919 SF		
1,800.0	1,791.0	1,751.2	1,707.1	4.1	6.5	-17.85	-84.6	392.4	273.6	264.8	8.83	30.988		
1,900.0	1,890.0	1,847.0	1,795.9	4.4	7.2	-13.74	-111.8	415.7	288.8	279.6	9.19	31.437		
2,000.0	1,988.9	1,943.8	1,885.4	4.7	7.8	-9.66	-140.8	438.3	304.8	295.4	9.47	32.188		
2,100.0	2,087.8	2,042.9	1,977.6	5.0	8.5	-6.41	-168.0	462.4	322.3	312.6	9.74	33.093		
2,200.0	2,186.7	2,137.2	2,065.7	5.3	9.1	-3.81	-192.8	485.3	340.1	330.2	9.98	34.076		
2,300.0	2,285.7	2,234.5	2,156.2	5.6	9.7	-1.32	-219.0	509.5	359.5	349.2	10.21	35.210		
2,400.0	2,384.6	2,333.9	2,249.1	5.9	10.3	0.70	-244.1	534.4	378.8	368.3	10.46	36.221		
2,500.0	2,483.5	2,431.6	2,340.4	6.2	11.0	2.57	-269.2	558.7	398.5	387.8	10.70	37.242		
2,600.0	2,582.5	2,542.4	2,444.5	6.5	11.6	4.68	-297.8	583.5	416.5	405.5	11.01	37.818		
2,700.0	2,681.4	2,640.1	2,536.7	6.8	12.2	6.53	-323.0	603.3	433.1	421.9	11.24	38.549		
2,800.0	2,780.3	2,723.8	2,615.3	7.1	12.8	8.02	-345.5	621.3	451.8	440.4	11.40	39.643		
2,900.0	2,879.3	2,807.3	2,692.5	7.4	13.4	9.66	-371.2	640.5	474.3	462.8	11.54	41.099		
3,000.0	2,978.2	2,898.1	2,775.7	7.7	14.1	11.31	-400.0	662.4	499.0	487.2	11.73	42.539		
3,100.0	3,077.1	3,002.3	2,871.3	8.0	14.8	12.94	-432.5	687.9	524.0	512.0	12.02	43.608		
3,200.0	3,176.1	3,111.8	2,972.8	8.3	15.5	14.55	-465.5	712.5	547.0	534.6	12.34	44.325		
3,300.0	3,275.0	3,206.0	3,060.4	8.7	16.2	15.85	-493.6	732.7	569.2	556.7	12.58	45.236		
3,400.0	3,373.9	3,286.0	3,134.3	9.0	16.8	16.98	-518.9	749.9	593.2	580.4	12.77	46.459		
3,500.0	3,472.9	3,378.8	3,219.3	9.3	17.5	18.34	-550.3	770.0	619.1	606.1	13.03	47.527		
3,600.0	3,571.8	3,504.6	3,335.7	9.6	18.3	19.92	-590.2	796.2	643.1	629.6	13.46	47.783		
3,700.0	3,670.7	3,640.8	3,464.1	9.9	19.1	21.22	-627.2	822.5	663.1	649.2	13.93	47.589		
3,800.0	3,769.7	3,820.0	3,637.9	10.2	19.8	22.90	-664.5	844.7	673.2	658.7	14.50	46.423		
3,900.0	3,868.6	3,915.4	3,731.5	10.5	20.2	23.74	-680.6	853.5	678.5	663.7	14.82	45.776		
4,000.0	3,967.5	4,023.5	3,837.6	10.8	20.6	24.50	-697.3	864.8	683.9	668.7	15.18	45.062		
4,100.0	4,066.5	4,129.2	3,941.8	11.1	20.9	25.02	-710.5	876.8	687.5	672.0	15.53	44.259		
4,200.0	4,165.4	4,213.9	4,025.2	11.4	21.2	25.40	-721.4	886.9	692.0	676.2	15.86	43.637		
4,300.0	4,264.3	4,296.9	4,106.5	11.7	21.6	25.84	-734.3	897.8	699.2	683.1	16.18	43.214		
4,400.0	4,363.3	4,377.2	4,184.8	12.1	21.9	26.27	-748.2	909.2	708.8	692.3	16.50	42.963		
4,500.0	4,462.2	4,470.4	4,275.0	12.4	22.4	26.80	-766.6	923.5	721.0	704.1	16.86	42.772		
4,600.0	4,561.1	4,587.8	4,389.0	12.7	22.9	27.30	-787.3	941.8	731.7	714.4	17.29	42.312		
4,700.0	4,660.1	4,663.2	4,462.3	13.0	23.3	27.67	-801.1	953.2	742.6	725.0	17.61	42.169		
4,800.0	4,759.0	4,739.9	4,536.2	13.3	23.7	28.09	-817.6	965.6	756.9	739.0	17.93	42.221		
4,900.0	4,857.9	4,813.6	4,606.6	13.6	24.1	28.46	-834.8	979.1	774.2	755.9	18.23	42.473		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 41-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,956.9	4,889.3	4,678.0	13.9	24.6	28.82	-854.5	994.3	794.7	776.2	18.53	42.884		
5,100.0	5,055.8	4,989.5	4,772.1	14.2	25.2	29.45	-883.2	1,013.5	817.0	798.0	18.97	43.062		
5,200.0	5,154.7	5,098.0	4,874.7	14.5	25.8	30.24	-913.8	1,031.4	837.3	817.9	19.47	43.009		
5,300.0	5,253.7	5,211.3	4,982.1	14.8	26.5	31.09	-945.4	1,048.6	856.9	836.9	20.00	42.846		
5,400.0	5,352.6	5,305.2	5,071.5	15.1	27.0	31.67	-970.1	1,063.5	875.6	855.2	20.44	42.842		
5,500.0	5,451.5	5,381.6	5,143.7	15.5	27.5	32.08	-990.8	1,076.8	896.0	875.2	20.79	43.093		
5,600.0	5,550.5	5,531.6	5,286.8	15.8	28.3	32.83	-1,028.3	1,101.3	913.6	892.1	21.49	42.521		
5,700.0	5,649.4	5,672.1	5,422.5	16.1	28.9	33.53	-1,059.1	1,120.9	927.7	905.6	22.11	41.962		
5,800.0	5,748.3	5,792.7	5,540.3	16.4	29.4	34.17	-1,081.7	1,134.3	937.4	914.7	22.66	41.365		
5,900.0	5,847.3	5,901.5	5,646.6	16.7	29.9	34.85	-1,102.2	1,144.1	946.4	923.2	23.20	40.800		
6,000.0	5,946.2	6,012.4	5,755.3	17.0	30.3	35.77	-1,123.4	1,149.9	953.8	930.0	23.78	40.116		
6,100.0	6,045.1	6,100.0	5,840.9	17.3	30.6	36.57	-1,141.8	1,153.5	962.4	938.1	24.31	39.590		
6,200.0	6,144.1	6,242.0	5,980.6	17.6	31.1	37.67	-1,166.3	1,160.0	968.0	943.0	25.01	38.698		
6,300.0	6,243.0	6,399.4	6,136.7	17.9	31.4	38.49	-1,183.6	1,169.4	968.8	943.1	25.65	37.773		
6,400.0	6,341.9	6,495.1	6,231.9	18.2	31.6	38.98	-1,191.9	1,174.2	967.4	941.2	26.19	36.937		
6,460.4	6,401.7	6,547.0	6,283.5	18.4	31.8	39.19	-1,196.3	1,177.8	967.1	940.6	26.50	36.492		
6,500.0	6,440.9	6,580.3	6,316.6	18.5	31.9	39.31	-1,199.3	1,180.5	967.2	940.5	26.70	36.223		
6,600.0	6,539.8	6,716.3	6,451.7	18.9	32.2	39.71	-1,209.2	1,192.0	966.3	939.0	27.24	35.468		
6,700.0	6,638.7	6,815.3	6,550.2	19.2	32.4	39.95	-1,214.1	1,200.1	963.1	935.3	27.75	34.710		
6,800.0	6,737.7	6,911.6	6,646.2	19.5	32.6	40.29	-1,220.1	1,206.8	960.5	932.2	28.27	33.972		
6,810.4	6,748.0	6,922.5	6,657.0	19.5	32.6	40.33	-1,220.8	1,207.4	960.3	931.9	28.33	33.895		
6,831.8	6,769.1	6,944.9	6,679.3	19.6	32.6	40.33	-1,222.2	1,208.8	960.0	931.5	28.46	33.735		
6,850.0	6,787.2	6,965.7	6,700.0	19.6	32.7	62.61	-1,223.6	1,210.0	960.2	931.6	28.57	33.608		
6,900.0	6,836.7	7,026.6	6,760.7	19.7	32.8	90.73	-1,227.2	1,213.1	962.5	933.6	28.92	33.282		
6,950.0	6,886.0	7,082.8	6,816.8	19.8	32.9	110.17	-1,230.1	1,215.7	967.5	938.2	29.31	33.006		
7,000.0	6,934.8	7,136.9	6,870.8	19.9	33.0	121.92	-1,232.5	1,218.0	975.4	945.6	29.75	32.789		
7,050.0	6,982.9	7,188.7	6,922.5	20.0	33.0	129.25	-1,234.7	1,220.1	986.3	956.1	30.22	32.635		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 5034-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						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		
3,300.0	3,275.0	3,239.0	3,239.0	8.7	5.7	-42.03	152.0	1,273.6	989.9	977.1	12.82	77.196		
3,400.0	3,373.9	3,337.9	3,337.9	9.0	5.8	-42.60	152.0	1,273.6	979.1	965.8	13.27	73.792		
3,500.0	3,472.9	3,436.9	3,436.9	9.3	6.0	-43.18	152.0	1,273.6	968.4	954.7	13.72	70.599		
3,600.0	3,571.8	3,535.8	3,535.8	9.6	6.2	-43.77	152.0	1,273.6	957.7	943.6	14.17	67.598		
3,700.0	3,670.7	3,634.7	3,634.7	9.9	6.3	-44.38	152.0	1,273.6	947.2	932.6	14.62	64.775		
3,800.0	3,769.7	3,733.7	3,733.7	10.2	6.5	-45.00	152.0	1,273.6	936.8	921.7	15.08	62.114		
3,900.0	3,868.6	3,832.6	3,832.6	10.5	6.7	-45.63	152.0	1,273.6	926.5	911.0	15.54	59.604		
4,000.0	3,967.5	3,931.5	3,931.5	10.8	6.9	-46.28	152.0	1,273.6	916.3	900.3	16.01	57.232		
4,100.0	4,066.5	4,030.5	4,030.5	11.1	7.0	-46.94	152.0	1,273.6	906.3	889.8	16.48	54.990		
4,200.0	4,165.4	4,129.4	4,129.4	11.4	7.2	-47.62	152.0	1,273.6	896.3	879.4	16.95	52.867		
4,300.0	4,264.3	4,228.3	4,228.3	11.7	7.4	-48.31	152.0	1,273.6	886.5	869.1	17.43	50.856		
4,400.0	4,363.3	4,327.3	4,327.3	12.1	7.6	-49.01	152.0	1,273.6	876.8	858.9	17.91	48.949		
4,500.0	4,462.2	4,426.2	4,426.2	12.4	7.7	-49.74	152.0	1,273.6	867.3	848.9	18.40	47.139		
4,600.0	4,561.1	4,525.1	4,525.1	12.7	7.9	-50.47	152.0	1,273.6	857.9	839.0	18.89	45.420		
4,700.0	4,660.1	4,624.1	4,624.1	13.0	8.1	-51.23	152.0	1,273.6	848.6	829.2	19.38	43.787		
4,800.0	4,759.0	4,723.0	4,723.0	13.3	8.2	-52.00	152.0	1,273.6	839.5	819.6	19.88	42.234		
4,900.0	4,857.9	4,821.9	4,821.9	13.6	8.4	-52.78	152.0	1,273.6	830.5	810.2	20.38	40.756		
5,000.0	4,956.9	4,920.9	4,920.9	13.9	8.6	-53.59	152.0	1,273.6	821.7	800.9	20.88	39.350		
5,100.0	5,055.8	5,019.8	5,019.8	14.2	8.8	-54.41	152.0	1,273.6	813.1	791.7	21.39	38.011		
5,183.5	5,138.4	5,034.0	5,034.0	14.5	8.8	-54.53	152.0	1,273.6	809.0	787.3	21.67	37.338	CC, ES	
5,200.0	5,154.7	5,034.0	5,034.0	14.5	8.8	-54.53	152.0	1,273.6	809.1	787.4	21.70	37.294	SF	
5,300.0	5,253.7	5,034.0	5,034.0	14.8	8.8	-54.53	152.0	1,273.6	817.3	795.6	21.73	37.609		
5,400.0	5,352.6	5,034.0	5,034.0	15.1	8.8	-54.53	152.0	1,273.6	837.4	815.9	21.53	38.890		
5,500.0	5,451.5	5,034.0	5,034.0	15.5	8.8	-54.53	152.0	1,273.6	868.7	847.5	21.15	41.079		
5,600.0	5,550.5	5,034.0	5,034.0	15.8	8.8	-54.53	152.0	1,273.6	909.9	889.2	20.63	44.103		
5,700.0	5,649.4	5,034.0	5,034.0	16.1	8.8	-54.53	152.0	1,273.6	959.8	939.7	20.05	47.881		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 2 - ENCANA - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 100-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,550.0	7,377.0	7,304.2	7,302.4	20.4	13.0	-18.31	949.1	782.4	999.0	965.8	33.16	30.127		
7,600.0	7,403.4	7,330.5	7,328.7	20.5	13.0	-19.69	949.8	781.9	958.1	924.7	33.35	28.724		
7,650.0	7,426.8	7,354.2	7,352.4	20.6	13.1	-21.64	950.4	781.4	915.4	881.8	33.55	27.285		
7,700.0	7,447.2	7,374.9	7,373.1	20.8	13.1	-24.36	951.0	781.0	871.1	837.4	33.74	25.815		
7,750.0	7,464.3	7,392.8	7,390.9	20.9	13.1	-28.20	951.5	780.6	825.5	791.5	33.94	24.320		
7,800.0	7,478.2	7,408.0	7,406.2	21.2	13.2	-33.73	952.0	780.3	778.7	744.6	34.14	22.807		
7,850.0	7,488.7	7,420.3	7,418.4	21.4	13.2	-41.84	952.3	780.1	731.0	696.7	34.35	21.282		
7,900.0	7,495.8	7,429.0	7,427.2	21.6	13.2	-53.66	952.6	779.9	682.6	648.1	34.56	19.753		
7,950.0	7,499.5	7,434.2	7,432.4	21.9	13.2	-70.02	952.7	779.8	633.8	599.1	34.77	18.227		
7,978.1	7,500.0	7,435.6	7,433.8	22.1	13.2	-80.77	952.8	779.8	606.3	571.4	34.90	17.374		
8,000.0	7,500.0	7,436.3	7,434.4	22.2	13.2	-81.07	952.8	779.8	584.8	549.8	35.00	16.709		
8,100.0	7,500.0	7,439.2	7,437.3	23.0	13.2	-82.45	952.9	779.7	487.4	451.8	35.54	13.714		
8,200.0	7,500.0	7,442.0	7,440.2	23.8	13.2	-83.82	952.9	779.6	391.2	354.9	36.25	10.792		
8,300.0	7,500.0	7,444.9	7,443.0	24.7	13.2	-85.19	953.0	779.6	297.5	260.3	37.23	7.990		
8,400.0	7,500.0	7,447.7	7,445.9	25.7	13.2	-86.56	953.1	779.5	209.7	171.1	38.58	5.435		
8,500.0	7,500.0	7,450.5	7,448.7	26.8	13.2	-87.91	953.2	779.5	139.3	100.0	39.26	3.547		
8,572.9	7,500.0	7,452.6	7,450.7	27.6	13.3	-88.89	953.2	779.4	118.7	83.0	35.74	3.321	CC, ES, SF	
8,600.0	7,500.0	7,453.3	7,451.5	27.9	13.3	-89.26	953.3	779.4	121.8	88.4	33.33	3.653		
8,700.0	7,500.0	7,456.1	7,454.2	29.2	13.3	-90.59	953.3	779.4	173.9	145.4	28.47	6.108		
8,800.0	7,500.0	7,458.8	7,457.0	30.4	13.3	-91.92	953.4	779.3	256.2	227.0	29.14	8.793		
8,900.0	7,500.0	7,461.6	7,459.7	31.7	13.3	-93.23	953.5	779.3	347.9	317.6	30.25	11.499		
9,000.0	7,500.0	7,464.3	7,462.4	33.1	13.3	-94.52	953.6	779.2	443.1	412.0	31.10	14.250		
9,100.0	7,500.0	7,467.0	7,465.1	34.5	13.3	-95.80	953.6	779.2	540.1	508.4	31.73	17.025		
9,200.0	7,500.0	7,469.6	7,467.8	35.9	13.3	-97.07	953.7	779.1	638.0	605.8	32.21	19.805		
9,300.0	7,500.0	7,472.3	7,470.4	37.4	13.3	-98.32	953.8	779.1	736.5	703.8	32.61	22.583		
9,400.0	7,500.0	7,474.9	7,473.0	38.8	13.3	-99.55	953.9	779.0	835.3	802.3	32.94	25.353		
9,500.0	7,500.0	7,477.5	7,475.6	40.3	13.3	-100.76	953.9	779.0	934.3	901.1	33.24	28.112		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft
Survey Program: 926-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	47.92	224.8	249.0	335.6					
100.0	100.0	92.8	92.8	0.1	0.2	47.92	224.7	248.9	335.4	335.1	0.31	1,090.122		
200.0	200.0	193.6	193.6	0.3	0.3	47.92	224.5	248.7	335.0	334.4	0.66	511.240		
300.0	300.0	294.4	294.4	0.5	0.5	47.92	224.1	248.2	334.4	333.4	1.00	333.437		
400.0	400.0	395.2	395.2	0.7	0.7	47.92	223.6	247.6	333.6	332.2	1.35	246.989		
500.0	500.0	496.0	496.0	0.8	0.9	-66.34	222.8	246.8	332.1	330.4	1.70	195.533		
600.0	600.0	596.8	596.8	1.0	1.1	-66.78	221.9	245.7	329.8	327.7	2.05	160.930		
700.0	699.9	697.5	697.4	1.2	1.2	-67.53	220.9	244.5	326.5	324.1	2.40	135.763		
800.0	799.7	798.0	798.0	1.4	1.4	-68.58	219.6	243.2	322.4	319.6	2.77	116.419		
900.0	899.4	898.4	898.3	1.6	1.6	-69.97	218.3	241.6	317.5	314.4	3.15	100.946		
1,000.0	998.9	994.8	994.7	1.8	1.8	-71.81	217.7	239.6	312.5	308.9	3.54	88.381		
1,100.0	1,098.3	1,082.7	1,082.6	2.1	1.9	-74.20	220.2	237.3	309.6	305.6	3.94	78.662		
1,119.9	1,118.0	1,100.0	1,099.8	2.1	1.9	-74.72	221.0	237.0	309.5	305.5	4.02	77.018	CC, ES	
1,200.0	1,197.4	1,169.7	1,169.4	2.3	2.0	-77.03	226.0	236.2	310.8	306.5	4.36	71.285		
1,237.8	1,234.9	1,202.9	1,202.4	2.4	2.1	-78.24	229.1	236.0	312.4	307.9	4.52	69.059		
1,300.0	1,296.4	1,258.2	1,257.3	2.6	2.2	-80.29	235.0	235.9	316.2	311.4	4.80	65.893		
1,400.0	1,395.3	1,348.8	1,347.2	2.9	2.4	-83.65	246.5	236.3	325.4	320.2	5.26	61.923		
1,500.0	1,494.2	1,435.8	1,433.2	3.2	2.6	-86.98	260.2	236.2	338.3	332.6	5.70	59.368		
1,600.0	1,593.2	1,527.7	1,523.5	3.5	2.8	-90.41	277.0	236.0	354.8	348.7	6.15	57.657		
1,700.0	1,692.1	1,613.4	1,607.3	3.8	3.1	-93.55	294.5	235.0	374.4	367.8	6.58	56.907		
1,800.0	1,791.0	1,699.5	1,691.0	4.1	3.4	-96.66	314.7	233.2	397.8	390.8	6.99	56.886		
1,900.0	1,890.0	1,790.2	1,778.8	4.4	3.7	-99.72	337.5	230.7	423.9	416.5	7.41	57.173		
2,000.0	1,988.9	1,873.4	1,859.0	4.7	4.1	-102.32	359.6	228.0	452.4	444.6	7.79	58.104		
2,100.0	2,087.8	1,962.6	1,944.4	5.0	4.5	-104.87	384.8	224.7	483.6	475.4	8.18	59.138		
2,200.0	2,186.7	2,049.9	2,027.9	5.3	4.9	-107.22	410.2	220.3	516.3	507.8	8.56	60.344		
2,300.0	2,285.7	2,128.7	2,102.6	5.6	5.4	-109.32	434.4	214.6	551.4	542.5	8.88	62.094		
2,400.0	2,384.6	2,219.3	2,188.1	5.9	5.8	-111.51	463.6	207.7	588.7	579.5	9.26	63.608		
2,500.0	2,483.5	2,308.6	2,272.6	6.2	6.3	-113.24	492.2	202.9	626.4	616.8	9.62	65.108		
2,600.0	2,582.5	2,401.5	2,360.5	6.5	6.8	-114.76	522.0	198.6	664.6	654.6	10.01	66.391		
2,700.0	2,681.4	2,492.6	2,446.7	6.8	7.4	-116.21	551.1	193.2	703.0	692.7	10.39	67.686		
2,800.0	2,780.3	2,581.2	2,530.4	7.1	7.9	-117.48	579.4	187.8	741.9	731.2	10.75	69.016		
2,900.0	2,879.3	2,665.5	2,610.0	7.4	8.3	-118.59	606.7	182.4	781.7	770.6	11.09	70.458		
3,000.0	2,978.2	2,747.8	2,687.4	7.7	8.8	-119.57	634.2	177.1	822.5	811.0	11.43	71.965		
3,100.0	3,077.1	2,844.3	2,778.1	8.0	9.4	-120.62	666.6	170.9	863.7	851.9	11.84	72.964		
3,200.0	3,176.1	2,938.5	2,866.8	8.3	10.0	-121.58	697.5	164.5	904.5	892.3	12.23	73.933		
3,300.0	3,275.0	3,040.7	2,963.4	8.7	10.6	-122.54	730.1	157.5	944.7	932.0	12.67	74.566		
3,400.0	3,373.9	3,134.7	3,052.5	9.0	11.1	-123.36	759.5	151.0	984.4	971.3	13.07	75.335		
8,800.0	7,500.0	7,673.8	7,490.2	30.4	27.2	-89.88	1,561.6	5.9	970.3	916.8	53.53	18.126		
8,900.0	7,500.0	7,674.8	7,491.2	31.7	27.2	-89.95	1,561.6	5.9	935.5	880.1	55.42	16.881		
9,000.0	7,500.0	7,675.8	7,492.2	33.1	27.2	-90.01	1,561.6	5.9	910.5	853.5	57.01	15.970		
9,100.0	7,500.0	7,676.8	7,493.2	34.5	27.2	-90.07	1,561.6	5.9	896.0	837.8	58.19	15.398		
9,181.3	7,500.0	7,677.6	7,494.0	35.6	27.2	-90.13	1,561.7	5.9	892.3	833.5	58.77	15.183		
9,200.0	7,500.0	7,677.8	7,494.2	35.9	27.2	-90.14	1,561.7	5.9	892.5	833.6	58.85	15.165	SF	
9,300.0	7,500.0	7,678.8	7,495.2	37.4	27.2	-90.20	1,561.7	5.9	900.1	841.2	58.96	15.267		
9,400.0	7,500.0	7,679.8	7,496.2	38.8	27.2	-90.27	1,561.7	5.9	918.7	860.1	58.55	15.691		
9,500.0	7,500.0	7,680.8	7,497.2	40.3	27.2	-90.33	1,561.7	5.9	947.5	889.8	57.70	16.421		
9,600.0	7,500.0	7,681.8	7,498.2	41.8	27.2	-90.40	1,561.7	5.9	985.6	929.1	56.52	17.437		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft	
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			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	97.91	-13.4	96.5	97.8						
100.0	100.0	91.4	91.4	0.1	0.1	97.87	-13.4	96.8	97.7	97.4	0.28	343.308			
200.0	200.0	191.0	191.0	0.3	0.3	97.84	-13.4	97.6	98.6	97.9	0.63	156.422			
300.0	300.0	291.1	291.1	0.5	0.5	98.03	-13.9	98.5	99.5	98.5	0.98	101.607			
400.0	400.0	391.3	391.3	0.7	0.7	98.41	-14.7	99.2	100.3	99.0	1.33	75.480			
500.0	500.0	491.4	491.4	0.8	0.8	-15.45	-15.4	99.8	100.1	98.5	1.68	59.657			
600.0	600.0	591.5	591.4	1.0	1.0	-15.61	-15.9	100.3	98.2	96.2	2.03	48.424			
700.0	699.9	691.6	691.6	1.2	1.2	-16.13	-16.3	100.7	94.4	92.0	2.38	39.697			
800.0	799.7	791.6	791.6	1.4	1.4	-17.14	-16.5	100.8	88.7	86.0	2.73	32.508			
900.0	899.4	891.6	891.6	1.6	1.5	-18.78	-16.5	100.7	81.2	78.1	3.08	26.344			
1,000.0	998.9	991.3	991.3	1.8	1.7	-21.35	-16.4	100.3	71.7	68.3	3.44	20.860			
1,100.0	1,098.3	1,090.7	1,090.7	2.1	1.9	-25.17	-16.5	99.7	60.8	57.0	3.81	15.969			
1,200.0	1,197.4	1,190.0	1,190.0	2.3	2.1	-31.98	-16.4	98.8	48.4	44.2	4.20	11.522			
1,237.8	1,234.9	1,227.3	1,227.3	2.4	2.1	-35.97	-16.3	98.4	43.5	39.1	4.36	9.966			
1,300.0	1,296.4	1,288.7	1,288.6	2.6	2.2	-45.13	-16.0	97.7	36.0	31.3	4.66	7.716			
1,400.0	1,395.3	1,387.4	1,387.3	2.9	2.4	-69.32	-15.3	96.7	27.3	22.1	5.24	5.215			
1,457.9	1,452.5	1,444.5	1,444.5	3.1	2.5	-88.95	-14.8	96.0	25.7	20.1	5.57	4.618	CC, ES, SF		
1,500.0	1,494.2	1,486.1	1,486.1	3.2	2.6	-103.73	-14.4	95.4	26.6	20.9	5.73	4.641			
1,600.0	1,593.2	1,584.8	1,584.7	3.5	2.7	-131.15	-13.6	93.7	34.5	28.5	5.93	5.811			
1,700.0	1,692.1	1,683.4	1,683.3	3.8	2.9	-146.57	-13.0	91.8	47.0	40.9	6.12	7.673			
1,800.0	1,791.0	1,782.1	1,781.9	4.1	3.1	-154.50	-11.8	90.5	61.4	55.0	6.39	9.614			
1,900.0	1,890.0	1,880.3	1,880.2	4.4	3.3	-159.09	-10.3	89.3	76.8	70.1	6.69	11.481			
2,000.0	1,988.9	1,979.5	1,979.4	4.7	3.4	-162.07	-8.6	88.2	92.6	85.6	7.02	13.204			
2,100.0	2,087.8	2,079.1	2,078.9	5.0	3.6	-164.37	-7.6	87.3	107.9	100.5	7.35	14.685			
2,200.0	2,186.7	2,179.1	2,178.9	5.3	3.8	-166.41	-7.7	86.9	122.2	114.5	7.68	15.913			
2,300.0	2,285.7	2,277.9	2,277.7	5.6	4.0	-168.11	-8.3	86.7	136.3	128.3	8.01	17.012			
2,400.0	2,384.6	2,377.2	2,377.0	5.9	4.1	-169.53	-8.9	86.2	150.6	142.3	8.35	18.044			
2,500.0	2,483.5	2,475.7	2,475.5	6.2	4.3	-170.94	-10.3	85.7	164.6	155.9	8.68	18.966			
2,600.0	2,582.5	2,569.7	2,569.5	6.5	4.5	-172.59	-12.2	83.3	180.2	171.2	8.99	20.036			
2,700.0	2,681.4	2,667.8	2,667.4	6.8	4.6	-174.61	-14.9	78.0	197.8	188.5	9.32	21.220			
2,800.0	2,780.3	2,766.9	2,766.2	7.1	4.8	-176.84	-19.5	72.3	215.2	205.6	9.66	22.274			
2,900.0	2,879.3	2,862.5	2,861.4	7.4	5.0	-179.16	-25.7	65.5	233.3	223.3	10.00	23.329			
3,000.0	2,978.2	2,958.4	2,956.7	7.7	5.2	178.69	-32.0	57.7	252.6	242.2	10.35	24.405			
3,100.0	3,077.1	3,051.9	3,049.5	8.0	5.4	176.56	-39.3	48.7	273.1	262.4	10.70	25.516			
3,200.0	3,176.1	3,144.5	3,140.9	8.3	5.6	174.17	-48.6	37.1	296.0	284.9	11.07	26.732			
3,300.0	3,275.0	3,242.1	3,237.2	8.7	5.9	171.96	-58.7	24.7	319.5	308.0	11.48	27.824			
3,400.0	3,373.9	3,335.0	3,329.0	9.0	6.1	170.33	-67.0	13.0	343.5	331.7	11.86	28.955			
3,500.0	3,472.9	3,423.2	3,415.9	9.3	6.3	169.02	-74.4	0.4	369.6	357.4	12.23	30.228			
3,600.0	3,571.8	3,514.7	3,505.6	9.6	6.6	167.51	-83.6	-14.9	397.8	385.2	12.62	31.513			
3,700.0	3,670.7	3,605.6	3,594.7	9.9	6.9	166.16	-93.1	-30.7	426.8	413.8	13.02	32.768			
3,800.0	3,769.7	3,704.2	3,690.9	10.2	7.2	164.66	-104.8	-48.7	456.7	443.2	13.50	33.835			
3,900.0	3,868.6	3,796.7	3,780.9	10.5	7.5	163.15	-118.1	-65.2	486.1	472.2	13.95	34.854			
4,000.0	3,967.5	3,897.0	3,878.3	10.8	7.9	161.53	-134.0	-83.2	515.9	501.4	14.47	35.660			
4,100.0	4,066.5	3,984.0	3,962.7	11.1	8.2	160.22	-148.3	-99.2	546.2	531.3	14.89	36.672			
4,200.0	4,165.4	4,075.0	4,050.8	11.4	8.5	159.06	-162.4	-116.8	577.8	562.5	15.34	37.659			
4,300.0	4,264.3	4,174.1	4,147.0	11.7	8.9	158.01	-176.9	-135.6	609.4	593.5	15.84	38.460			
4,400.0	4,363.3	4,282.4	4,252.7	12.1	9.3	157.05	-192.2	-154.2	639.2	622.8	16.40	38.988			
4,500.0	4,462.2	4,389.4	4,357.3	12.4	9.7	156.33	-205.9	-171.1	668.0	651.1	16.92	39.476			
4,600.0	4,561.1	4,491.0	4,457.1	12.7	10.0	155.68	-219.1	-185.2	694.9	677.5	17.42	39.903			
4,700.0	4,660.1	4,582.8	4,547.2	13.0	10.4	155.12	-231.3	-198.1	722.1	704.2	17.86	40.439			
4,800.0	4,759.0	4,694.1	4,656.5	13.3	10.7	154.52	-245.8	-213.1	748.7	730.3	18.39	40.705			
4,900.0	4,857.9	4,811.6	4,772.6	13.6	11.1	154.13	-258.4	-226.4	773.3	754.4	18.93	40.857			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 103-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			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	4,956.9	4,936.0	4,896.3	13.9	11.4	154.04	-267.8	-236.3	794.5	775.0	19.44	40.861			
5,100.0	5,055.8	5,042.2	5,002.0	14.2	11.6	154.14	-273.4	-242.6	813.6	793.8	19.86	40.971			
5,200.0	5,154.7	5,154.5	5,114.2	14.5	11.8	154.37	-277.4	-247.8	831.4	811.1	20.27	41.016			
5,300.0	5,253.7	5,262.4	5,222.0	14.8	12.0	154.74	-278.8	-251.4	847.9	827.3	20.64	41.074			
5,400.0	5,352.6	5,381.0	5,340.6	15.1	12.1	155.24	-278.9	-253.5	862.9	841.9	21.02	41.043			
5,500.0	5,451.5	5,476.4	5,436.0	15.5	12.3	155.69	-277.7	-254.1	876.9	855.5	21.35	41.080			
5,600.0	5,550.5	5,576.4	5,536.0	15.8	12.4	156.22	-275.6	-254.9	891.0	869.4	21.67	41.126			
5,700.0	5,649.4	5,680.9	5,640.4	16.1	12.5	156.75	-273.5	-255.4	904.8	882.8	22.00	41.128			
5,800.0	5,748.3	5,780.2	5,739.8	16.4	12.7	157.20	-272.0	-255.3	918.2	895.9	22.33	41.129			
5,900.0	5,847.3	5,874.8	5,834.3	16.7	12.8	157.63	-270.5	-255.5	932.0	909.3	22.64	41.168			
6,000.0	5,946.2	5,969.7	5,929.2	17.0	12.9	158.04	-269.0	-256.2	946.2	923.3	22.96	41.210			
6,100.0	6,045.1	6,064.9	6,024.4	17.3	13.1	158.38	-268.5	-257.2	960.9	937.6	23.29	41.256			
6,200.0	6,144.1	6,163.8	6,123.3	17.6	13.2	158.71	-268.2	-258.5	975.8	952.2	23.62	41.316			
6,300.0	6,243.0	6,263.2	6,222.6	17.9	13.4	159.09	-266.9	-259.7	990.7	966.8	23.94	41.379			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft	
Survey Program: 134-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	50.82	212.1	260.2	335.8						
100.0	100.0	91.7	91.7	0.1	0.1	50.88	211.7	260.4	335.6	335.3	0.29	1,151.241			
152.4	152.4	143.4	143.4	0.2	0.2	50.97	211.2	260.6	335.5	335.0	0.47	721.344	CC, ES		
200.0	200.0	186.3	186.3	0.3	0.3	51.03	211.1	261.1	335.8	335.2	0.62	539.145			
300.0	300.0	275.7	275.7	0.5	0.5	51.08	212.6	263.3	338.7	337.8	0.95	355.389			
400.0	400.0	368.5	368.3	0.7	0.6	51.16	215.5	267.7	344.4	343.1	1.29	267.110			
500.0	500.0	458.7	458.2	0.8	0.8	-62.80	219.1	273.9	351.9	350.3	1.62	216.992			
600.0	600.0	550.8	549.7	1.0	1.1	-62.73	223.5	282.7	361.1	359.2	1.96	184.172			
700.0	699.9	643.2	641.4	1.2	1.3	-62.76	228.4	293.4	371.5	369.2	2.31	160.995			
800.0	799.7	733.2	730.4	1.4	1.6	-62.82	233.7	305.9	383.3	380.6	2.66	143.980			
900.0	899.4	829.0	824.8	1.6	1.9	-62.81	238.9	321.9	396.1	393.0	3.05	129.756			
1,000.0	998.9	933.7	927.7	1.8	2.3	-62.75	242.6	340.2	407.7	404.2	3.49	116.706			
1,100.0	1,098.3	1,031.0	1,023.3	2.1	2.6	-62.60	244.1	358.2	417.9	413.9	3.95	105.713			
1,200.0	1,197.4	1,118.5	1,108.6	2.3	3.0	-62.25	244.1	377.4	429.2	424.8	4.43	96.991			
1,237.8	1,234.9	1,152.2	1,141.3	2.4	3.2	-62.08	244.1	385.7	434.0	429.4	4.61	94.068			
1,300.0	1,296.4	1,207.9	1,195.2	2.6	3.4	-61.87	244.2	399.9	442.4	437.5	4.93	89.781			
1,400.0	1,395.3	1,300.5	1,284.3	2.9	3.9	-61.41	244.4	425.2	457.4	451.9	5.46	83.819			
1,500.0	1,494.2	1,398.8	1,378.6	3.2	4.4	-60.86	244.5	452.9	473.1	467.1	6.02	78.581			
1,600.0	1,593.2	1,502.4	1,477.8	3.5	5.0	-60.17	243.3	482.6	488.5	481.9	6.61	73.899			
1,700.0	1,692.1	1,600.4	1,572.0	3.8	5.5	-59.60	241.9	509.7	503.0	495.8	7.17	70.187			
1,800.0	1,791.0	1,694.3	1,662.2	4.1	5.9	-59.21	242.1	535.8	518.5	510.8	7.71	67.257			
1,900.0	1,890.0	1,789.1	1,753.1	4.4	6.5	-58.80	242.3	562.9	534.8	526.5	8.26	64.770			
2,000.0	1,988.9	1,894.2	1,853.6	4.7	7.0	-58.26	241.7	593.4	551.0	542.1	8.86	62.199			
2,100.0	2,087.8	1,998.4	1,953.5	5.0	7.6	-57.67	239.6	623.1	566.0	556.5	9.44	59.929			
2,200.0	2,186.7	2,099.0	2,050.1	5.3	8.1	-57.21	237.9	650.9	580.5	570.5	10.01	57.996			
2,300.0	2,285.7	2,199.6	2,146.8	5.6	8.6	-56.74	235.7	678.6	594.6	584.0	10.58	56.191			
2,400.0	2,384.6	2,302.0	2,245.2	5.9	9.2	-56.19	232.6	707.0	608.5	597.4	11.14	54.610			
2,500.0	2,483.5	2,403.2	2,342.8	6.2	9.7	-55.80	230.2	733.8	621.8	610.1	11.70	53.136			
2,600.0	2,582.5	2,503.2	2,439.1	6.5	10.2	-55.40	227.5	760.4	635.0	622.8	12.26	51.800			
2,700.0	2,681.4	2,606.6	2,538.9	6.8	10.7	-55.07	225.2	787.1	647.8	635.0	12.81	50.555			
2,800.0	2,780.3	2,710.9	2,639.8	7.1	11.2	-54.74	222.3	813.5	659.9	646.5	13.38	49.327			
2,900.0	2,879.3	2,818.7	2,744.3	7.4	11.7	-54.48	219.5	839.6	671.1	657.2	13.94	48.142			
3,000.0	2,978.2	2,928.9	2,851.7	7.7	12.1	-54.33	216.9	864.1	680.7	666.2	14.52	46.881			
3,100.0	3,077.1	3,024.0	2,944.5	8.0	12.5	-54.22	214.5	884.9	689.9	674.9	15.04	45.880			
3,200.0	3,176.1	3,112.0	3,030.1	8.3	13.0	-54.15	213.5	905.4	701.0	685.5	15.54	45.112			
3,300.0	3,275.0	3,199.0	3,114.4	8.7	13.4	-54.09	213.3	926.8	713.7	697.7	16.03	44.536			
3,400.0	3,373.9	3,297.8	3,210.2	9.0	13.9	-54.01	213.1	951.3	726.6	710.1	16.57	43.859			
3,500.0	3,472.9	3,401.9	3,310.9	9.3	14.4	-53.88	212.2	977.4	739.5	722.3	17.13	43.168			
3,600.0	3,571.8	3,509.9	3,415.6	9.6	14.9	-53.61	208.9	1,004.0	750.9	733.2	17.70	42.421			
3,700.0	3,670.7	3,611.2	3,513.7	9.9	15.3	-53.35	205.6	1,028.7	762.0	743.7	18.24	41.770			
3,800.0	3,769.7	3,706.9	3,606.5	10.2	15.8	-53.15	202.8	1,051.7	773.0	754.3	18.74	41.247			
3,900.0	3,868.6	3,800.3	3,697.3	10.5	16.2	-53.11	202.1	1,073.9	784.8	765.5	19.25	40.765			
4,000.0	3,967.5	3,904.1	3,798.2	10.8	16.7	-53.12	202.2	1,098.3	796.7	776.9	19.80	40.234			
4,100.0	4,066.5	4,015.7	3,906.8	11.1	17.2	-53.07	200.6	1,123.7	807.2	786.8	20.40	39.576			
4,200.0	4,165.4	4,106.6	3,995.2	11.4	17.6	-52.92	198.0	1,144.9	817.6	796.7	20.90	39.124			
4,300.0	4,264.3	4,190.4	4,076.3	11.7	18.0	-52.76	196.0	1,165.8	829.7	808.3	21.36	38.835			
4,400.0	4,363.3	4,287.3	4,169.7	12.1	18.5	-52.53	193.6	1,191.6	843.2	821.3	21.87	38.552			
4,500.0	4,462.2	4,413.9	4,292.5	12.4	19.1	-52.39	191.5	1,222.4	855.1	832.6	22.49	38.020			
4,600.0	4,561.1	4,526.2	4,402.4	12.7	19.5	-52.49	191.1	1,245.6	864.3	841.3	23.07	37.466			
4,700.0	4,660.1	4,632.6	4,506.7	13.0	19.9	-52.64	190.9	1,266.2	872.5	848.9	23.64	36.915			
4,800.0	4,759.0	4,738.3	4,610.7	13.3	20.3	-52.86	191.5	1,285.6	880.0	855.8	24.20	36.366			
4,900.0	4,857.9	4,855.6	4,726.3	13.6	20.7	-53.25	193.3	1,304.7	886.3	861.5	24.81	35.720			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL													Offset Well Error:	0.0 ft		
Survey Program: 134-Geolink MWD																
Reference				Offset				Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,000.0	4,956.9	4,977.5	4,847.1	13.9	21.0	-53.74	195.0	1,321.2	890.2	864.7	25.44	34.993				
5,100.0	5,055.8	5,107.4	4,976.3	14.2	21.3	-54.40	197.0	1,335.0	891.6	865.6	26.08	34.190				
5,200.0	5,154.7	5,228.3	5,096.8	14.5	21.5	-55.13	198.5	1,343.4	889.8	863.1	26.70	33.329				
5,300.0	5,253.7	5,343.5	5,211.9	14.8	21.6	-55.91	199.7	1,348.8	886.0	858.7	27.32	32.432				
5,400.0	5,352.6	5,454.1	5,322.4	15.1	21.7	-56.70	200.3	1,352.3	880.9	853.0	27.94	31.530				
5,500.0	5,451.5	5,556.2	5,424.5	15.5	21.8	-57.46	200.8	1,354.7	875.1	846.6	28.56	30.644				
5,600.0	5,550.5	5,657.1	5,525.4	15.8	21.9	-58.25	201.6	1,356.5	869.3	840.1	29.19	29.785				
5,700.0	5,649.4	5,758.6	5,626.9	16.1	22.0	-59.07	202.4	1,358.1	863.4	833.6	29.82	28.954				
5,800.0	5,748.3	5,862.0	5,730.3	16.4	22.1	-59.94	203.3	1,359.2	857.3	826.9	30.46	28.147				
5,900.0	5,847.3	5,967.8	5,836.1	16.7	22.2	-60.87	204.0	1,359.5	850.7	819.6	31.10	27.352				
6,000.0	5,946.2	6,065.8	5,934.1	17.0	22.3	-61.77	204.7	1,359.3	843.9	812.1	31.75	26.575				
6,100.0	6,045.1	6,161.6	6,029.8	17.3	22.4	-62.66	205.5	1,359.3	837.6	805.2	32.41	25.844				
6,200.0	6,144.1	6,259.7	6,128.0	17.6	22.5	-63.59	206.6	1,359.4	831.8	798.7	33.06	25.156				
6,300.0	6,243.0	6,358.2	6,226.4	17.9	22.5	-64.55	208.0	1,359.5	826.2	792.5	33.72	24.500				
6,400.0	6,341.9	6,457.5	6,325.8	18.2	22.6	-65.55	209.5	1,359.3	820.9	786.5	34.38	23.875				
6,500.0	6,440.9	6,555.9	6,424.1	18.5	22.7	-66.58	211.3	1,358.9	815.9	780.8	35.05	23.279				
6,600.0	6,539.8	6,653.0	6,521.2	18.9	22.8	-67.61	213.1	1,358.6	811.2	775.5	35.72	22.709				
6,700.0	6,638.7	6,751.7	6,619.9	19.2	22.9	-68.65	215.0	1,358.4	807.0	770.6	36.40	22.172				
6,800.0	6,737.7	6,851.2	6,719.4	19.5	23.0	-69.73	216.9	1,358.2	802.9	765.9	37.06	21.666				
6,810.4	6,748.0	6,861.6	6,729.7	19.5	23.0	-69.84	217.1	1,358.2	802.5	765.4	37.13	21.615				
6,850.0	6,787.2	6,904.2	6,772.4	19.6	23.0	-48.05	217.8	1,358.1	800.1	762.8	37.36	21.415				
6,900.0	6,836.7	6,957.9	6,826.0	19.7	23.0	-20.28	218.3	1,357.9	794.6	757.1	37.58	21.144				
6,950.0	6,886.0	7,005.6	6,873.7	19.8	23.1	-0.82	218.7	1,357.7	786.6	748.9	37.72	20.853				
7,000.0	6,934.8	7,053.1	6,921.2	19.9	23.1	11.29	219.2	1,357.5	776.2	738.4	37.78	20.543				
7,050.0	6,982.9	7,100.5	6,968.6	20.0	23.2	19.36	219.7	1,357.4	763.4	725.7	37.77	20.215				
7,100.0	7,030.1	7,146.7	7,014.8	20.0	23.2	25.35	220.2	1,357.4	748.4	710.8	37.66	19.873				
7,150.0	7,076.1	7,191.3	7,059.4	20.1	23.3	30.31	220.8	1,357.4	731.3	693.8	37.46	19.520				
7,200.0	7,120.8	7,235.8	7,103.9	20.1	23.3	34.80	221.6	1,357.3	712.3	675.1	37.17	19.162				
7,250.0	7,163.8	7,279.9	7,148.0	20.1	23.3	39.18	222.4	1,357.2	691.4	654.6	36.77	18.803				
7,300.0	7,205.0	7,322.3	7,190.4	20.2	23.4	43.64	223.2	1,357.0	668.9	632.7	36.25	18.451				
7,350.0	7,244.1	7,362.9	7,231.0	20.2	23.4	48.30	223.9	1,356.7	645.2	609.5	35.61	18.119				
7,400.0	7,281.1	7,400.9	7,269.0	20.2	23.4	53.17	224.6	1,356.5	620.5	585.7	34.82	17.820				
7,450.0	7,315.7	7,436.0	7,304.1	20.3	23.5	58.23	225.2	1,356.2	595.4	561.5	33.88	17.572				
7,500.0	7,347.7	7,468.5	7,336.6	20.3	23.5	63.42	225.7	1,356.0	570.4	537.6	32.80	17.392				
7,550.0	7,377.0	7,498.3	7,366.4	20.4	23.5	68.59	226.2	1,355.8	546.1	514.6	31.58	17.295				
7,600.0	7,403.4	7,525.3	7,393.4	20.5	23.6	73.58	226.6	1,355.7	523.3	493.0	30.28	17.284				
7,650.0	7,426.8	7,549.3	7,417.4	20.6	23.6	78.20	227.0	1,355.5	502.7	473.7	28.99	17.341				
7,700.0	7,447.2	7,570.2	7,438.3	20.8	23.6	82.28	227.3	1,355.4	485.1	457.2	27.87	17.407				
7,750.0	7,464.3	7,587.8	7,455.9	20.9	23.6	85.66	227.6	1,355.4	471.4	444.3	27.13	17.377				
7,800.0	7,478.2	7,602.2	7,470.3	21.2	23.6	88.27	227.8	1,355.3	462.4	435.4	26.98	17.137				
7,850.0	7,488.7	7,613.3	7,481.3	21.4	23.6	90.03	227.9	1,355.3	458.7	431.1	27.57	16.637				
7,857.7	7,490.0	7,614.7	7,482.7	21.4	23.6	90.22	228.0	1,355.3	458.6	430.9	27.73	16.539				
7,900.0	7,495.8	7,621.0	7,489.1	21.6	23.6	90.90	228.0	1,355.2	460.7	431.8	28.87	15.958				
7,950.0	7,499.5	7,625.3	7,493.4	21.9	23.7	90.85	228.1	1,355.2	468.5	437.8	30.71	15.254				
7,978.1	7,500.0	7,626.3	7,494.3	22.1	23.7	90.42	228.1	1,355.2	475.3	443.4	31.89	14.905				
8,000.0	7,500.0	7,626.6	7,494.6	22.2	23.7	90.46	228.1	1,355.2	481.8	448.9	32.85	14.666				
8,100.0	7,500.0	7,628.0	7,496.1	23.0	23.7	90.64	228.2	1,355.2	522.1	484.9	37.21	14.032 SF				
8,200.0	7,500.0	7,629.5	7,497.5	23.8	23.7	90.82	228.2	1,355.2	577.1	536.1	40.93	14.100				
8,300.0	7,500.0	7,630.9	7,499.0	24.7	23.7	91.00	228.2	1,355.2	643.0	599.2	43.78	14.686				
8,400.0	7,500.0	7,632.3	7,500.4	25.7	23.7	91.18	228.2	1,355.2	716.8	671.0	45.89	15.622				
8,500.0	7,500.0	7,633.8	7,501.8	26.8	23.7	91.36	228.2	1,355.2	796.4	749.0	47.43	16.793				
8,600.0	7,500.0	7,635.2	7,503.3	27.9	23.7	91.54	228.3	1,355.2	880.2	831.6	48.57	18.123				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL												Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
8,700.0	7,500.0	7,636.6	7,504.7	29.2	23.7	91.71	228.3	1,355.2	967.0	917.6	49.42	19.566	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 - 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	
1,800.0	1,791.0	2,163.5	2,119.6	4.1	10.2	-90.66	752.1	540.9	980.0	971.4	8.58	114.267		
1,900.0	1,890.0	2,252.2	2,201.1	4.4	10.8	-92.33	728.0	515.4	942.6	933.3	9.29	101.419		
2,000.0	1,988.9	2,340.9	2,282.6	4.7	11.5	-94.12	704.0	490.0	906.1	896.0	10.06	90.045		
2,100.0	2,087.8	2,429.6	2,364.0	5.0	12.1	-96.05	679.9	464.6	870.4	859.5	10.89	79.964		
2,200.0	2,186.7	2,518.3	2,445.5	5.3	12.8	-98.12	655.8	439.1	835.8	824.0	11.77	71.024		
2,300.0	2,285.7	2,607.0	2,527.0	5.6	13.4	-100.34	631.7	413.7	802.3	789.6	12.71	63.103		
2,400.0	2,384.6	2,695.7	2,608.5	5.9	14.1	-102.74	607.7	388.2	770.2	756.5	13.73	56.097		
2,500.0	2,483.5	2,784.3	2,690.0	6.2	14.7	-105.30	583.6	362.8	739.6	724.8	14.82	49.919		
2,600.0	2,582.5	2,873.0	2,771.5	6.5	15.4	-108.06	559.5	337.4	710.6	694.7	15.97	44.493		
2,700.0	2,681.4	2,961.7	2,852.9	6.8	16.0	-111.00	535.4	311.9	683.6	666.4	17.20	39.752		
2,800.0	2,780.3	3,050.4	2,934.4	7.1	16.7	-114.15	511.4	286.5	658.6	640.2	18.48	35.636		
2,900.0	2,879.3	3,139.1	3,015.9	7.4	17.3	-117.48	487.3	261.0	636.1	616.3	19.82	32.093		
3,000.0	2,978.2	3,227.8	3,097.4	7.7	18.0	-121.00	463.2	235.6	616.2	595.0	21.20	29.072		
3,100.0	3,077.1	3,316.5	3,178.9	8.0	18.6	-124.70	439.1	210.2	599.2	576.6	22.59	26.530		
3,200.0	3,176.1	3,405.2	3,260.3	8.3	19.3	-128.56	415.1	184.7	585.4	561.4	23.97	24.423		
3,300.0	3,275.0	3,493.9	3,341.8	8.7	19.9	-132.55	391.0	159.3	574.9	549.6	25.31	22.714		
3,400.0	3,373.9	3,582.6	3,423.3	9.0	20.6	-136.63	366.9	133.8	568.1	541.5	26.59	21.364		
3,500.0	3,472.9	3,671.3	3,504.8	9.3	21.2	-140.77	342.8	108.4	564.9	537.1	27.77	20.338		
3,534.0	3,506.5	3,701.4	3,532.5	9.4	21.5	-142.18	334.7	99.8	564.7	536.5	28.15	20.057	CC, ES	
3,600.0	3,571.8	3,760.0	3,586.3	9.6	21.9	-144.92	318.8	83.0	565.5	536.6	28.85	19.603		
3,700.0	3,670.7	3,848.6	3,667.8	9.9	22.6	-149.05	294.7	57.5	569.9	540.1	29.79	19.127		
3,800.0	3,769.7	3,937.3	3,749.2	10.2	23.2	-153.11	270.6	32.1	577.9	547.3	30.61	18.879		
3,900.0	3,868.6	4,026.0	3,830.7	10.5	23.9	-157.05	246.5	6.7	589.4	558.1	31.30	18.831	SF	
4,000.0	3,967.5	4,114.7	3,912.2	10.8	24.5	-160.86	222.5	-18.8	604.3	572.4	31.88	18.955		
4,100.0	4,066.5	4,203.4	3,993.7	11.1	25.2	-164.51	198.4	-44.2	622.3	589.9	32.37	19.226		
4,200.0	4,165.4	4,292.1	4,075.2	11.4	25.8	-167.97	174.3	-69.7	643.0	610.3	32.77	19.620		
4,300.0	4,264.3	4,380.8	4,156.7	11.7	26.5	-171.25	150.2	-95.1	666.4	633.3	33.12	20.118		
4,400.0	4,363.3	4,469.5	4,238.1	12.1	27.1	-174.32	126.2	-120.5	692.0	658.6	33.43	20.701		
4,500.0	4,462.2	4,558.2	4,319.6	12.4	27.8	-177.21	102.1	-146.0	719.7	686.0	33.70	21.353		
4,600.0	4,561.1	4,646.9	4,401.1	12.7	28.4	-179.90	78.0	-171.4	749.2	715.3	33.96	22.060		
4,700.0	4,660.1	4,735.6	4,482.6	13.0	29.1	-177.59	54.0	-196.9	780.4	746.2	34.21	22.811		
4,800.0	4,759.0	4,824.3	4,564.1	13.3	29.7	-175.25	29.9	-222.3	812.9	778.5	34.45	23.595		
4,900.0	4,857.9	4,912.9	4,645.6	13.6	30.4	-173.07	5.8	-247.7	846.8	812.1	34.70	24.405		
5,000.0	4,956.9	5,001.6	4,727.0	13.9	31.0	-171.05	-18.3	-273.2	881.7	846.8	34.94	25.233		
5,100.0	5,055.8	5,090.3	4,808.5	14.2	31.7	-169.17	-42.3	-298.6	917.7	882.5	35.20	26.073		
5,200.0	5,154.7	5,179.0	4,890.0	14.5	32.3	-167.42	-66.4	-324.1	954.5	919.1	35.46	26.920		
5,300.0	5,253.7	5,267.7	4,971.5	14.8	33.0	-165.79	-90.5	-349.5	992.1	956.4	35.73	27.771		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
2,100.0	2,087.8	2,289.1	2,256.1	5.0	7.8	-77.81	673.5	760.7	976.5	966.0	10.44	93.490			
2,200.0	2,186.7	2,386.1	2,349.6	5.3	8.3	-77.72	647.9	760.4	952.0	941.0	11.05	86.147			
2,300.0	2,285.7	2,483.0	2,443.1	5.6	8.8	-77.62	622.3	760.1	927.5	915.9	11.66	79.553			
2,400.0	2,384.6	2,580.0	2,536.7	5.9	9.2	-77.52	596.7	759.8	903.1	890.8	12.27	73.600			
2,500.0	2,483.5	2,676.9	2,630.2	6.2	9.7	-77.42	571.1	759.4	878.6	865.7	12.88	68.201			
2,600.0	2,582.5	2,773.9	2,723.7	6.5	10.2	-77.30	545.5	759.1	854.1	840.6	13.50	63.282			
2,700.0	2,681.4	2,870.8	2,817.2	6.8	10.7	-77.18	519.9	758.8	829.7	815.6	14.11	58.783			
2,800.0	2,780.3	2,967.8	2,910.7	7.1	11.1	-77.06	494.3	758.4	805.2	790.5	14.73	54.653			
2,900.0	2,879.3	3,064.7	3,004.2	7.4	11.6	-76.92	468.7	758.1	780.8	765.4	15.35	50.849			
3,000.0	2,978.2	3,161.6	3,097.7	7.7	12.1	-76.78	443.1	757.8	756.3	740.3	15.98	47.334			
3,100.0	3,077.1	3,258.6	3,191.2	8.0	12.6	-76.63	417.5	757.4	731.9	715.3	16.60	44.077			
3,200.0	3,176.1	3,355.5	3,284.7	8.3	13.0	-76.47	391.9	757.1	707.4	690.2	17.23	41.050			
3,300.0	3,275.0	3,452.5	3,378.2	8.7	13.5	-76.29	366.4	756.8	683.0	665.1	17.87	38.231			
3,400.0	3,373.9	3,549.4	3,471.7	9.0	14.0	-76.10	340.8	756.5	658.6	640.1	18.50	35.599			
3,500.0	3,472.9	3,646.4	3,565.2	9.3	14.4	-75.90	315.2	756.1	634.2	615.0	19.14	33.136			
3,600.0	3,571.8	3,743.3	3,658.7	9.6	14.9	-75.68	289.6	755.8	609.8	590.0	19.78	30.826			
3,700.0	3,670.7	3,840.3	3,752.2	9.9	15.4	-75.45	264.0	755.5	585.3	564.9	20.43	28.656			
3,800.0	3,769.7	3,937.2	3,845.8	10.2	15.9	-75.19	238.4	755.1	561.0	539.9	21.08	26.614			
3,900.0	3,868.6	4,034.2	3,939.3	10.5	16.3	-74.91	212.8	754.8	536.6	514.8	21.73	24.689			
4,000.0	3,967.5	4,131.1	4,032.8	10.8	16.8	-74.60	187.2	754.5	512.2	489.8	22.39	22.872			
4,100.0	4,066.5	4,228.1	4,126.3	11.1	17.3	-74.27	161.6	754.2	487.9	464.8	23.06	21.153			
4,200.0	4,165.4	4,325.0	4,219.8	11.4	17.8	-73.90	136.0	753.8	463.5	439.8	23.74	19.526			
4,300.0	4,264.3	4,422.0	4,313.3	11.7	18.2	-73.48	110.4	753.5	439.2	414.8	24.42	17.984			
4,400.0	4,363.3	4,518.9	4,406.8	12.1	18.7	-73.02	84.8	753.2	414.9	389.8	25.12	16.520			
4,500.0	4,462.2	4,615.9	4,500.3	12.4	19.2	-72.50	59.2	752.8	390.7	364.8	25.82	15.129			
4,600.0	4,561.1	4,712.8	4,593.8	12.7	19.7	-71.91	33.6	752.5	366.4	339.9	26.54	13.806			
4,700.0	4,660.1	4,809.8	4,687.3	13.0	20.1	-71.24	8.0	752.2	342.2	315.0	27.27	12.548			
4,800.0	4,759.0	4,906.7	4,780.8	13.3	20.6	-70.47	-17.6	751.8	318.1	290.1	28.03	11.350			
4,900.0	4,857.9	5,003.6	4,874.3	13.6	21.1	-69.57	-43.2	751.5	294.0	265.2	28.80	10.208			
5,000.0	4,956.9	5,100.6	4,967.8	13.9	21.6	-68.51	-68.8	751.2	270.0	240.4	29.61	9.121			
5,100.0	5,055.8	5,197.5	5,061.3	14.2	22.0	-67.24	-94.4	750.9	246.2	215.7	30.44	8.086			
5,200.0	5,154.7	5,294.5	5,154.8	14.5	22.5	-65.71	-120.0	750.5	222.4	191.1	31.32	7.102			
5,300.0	5,253.7	5,391.4	5,248.4	14.8	23.0	-63.81	-145.6	750.2	198.8	166.6	32.24	6.168			
5,400.0	5,352.6	5,488.4	5,341.9	15.1	23.5	-61.41	-171.2	749.9	175.5	142.3	33.22	5.285			
5,500.0	5,451.5	5,585.3	5,435.4	15.5	23.9	-58.29	-196.8	749.5	152.6	118.4	34.26	4.455			
5,600.0	5,550.5	5,682.3	5,528.9	15.8	24.4	-54.09	-222.4	749.2	130.3	94.9	35.36	3.685			
5,700.0	5,649.4	5,779.2	5,622.4	16.1	24.9	-48.23	-248.0	748.9	108.9	72.4	36.47	2.987			
5,800.0	5,748.3	5,876.2	5,715.9	16.4	25.4	-39.70	-273.5	748.5	89.2	51.8	37.39	2.384			
5,900.0	5,847.3	5,973.1	5,809.4	16.7	25.8	-26.96	-299.1	748.2	72.4	34.8	37.60	1.925			
6,000.0	5,946.2	6,070.1	5,902.9	17.0	26.3	-8.46	-324.7	747.9	61.1	24.9	36.15	1.689 SF			
6,075.5	6,020.8	6,143.2	5,973.5	17.2	26.7	8.67	-344.1	747.6	58.2	24.3	33.90	1.717 CC, ES			
6,100.0	6,045.1	6,167.0	5,996.4	17.3	26.8	14.39	-350.3	747.6	58.5	25.4	33.06	1.770			
6,200.0	6,144.1	6,264.0	6,089.9	17.6	27.2	35.63	-375.9	747.2	65.7	35.9	29.84	2.202			
6,300.0	6,243.0	6,360.9	6,183.4	17.9	27.7	51.19	-401.5	746.9	80.1	52.1	28.02	2.859			
6,400.0	6,341.9	6,457.9	6,276.9	18.2	28.2	61.64	-427.1	746.6	98.6	70.6	28.03	3.518			
6,500.0	6,440.9	6,554.8	6,370.4	18.5	28.7	68.70	-452.7	746.2	119.3	90.2	29.04	4.107			
6,600.0	6,539.8	6,656.5	6,469.0	18.9	28.8	73.96	-477.9	745.9	139.6	109.1	30.47	4.581			
6,700.0	6,638.7	6,759.7	6,569.7	19.2	28.8	78.17	-499.9	745.6	157.3	125.4	31.91	4.929			
6,800.0	6,737.7	6,863.8	6,672.2	19.5	28.9	81.87	-518.4	745.4	172.1	138.8	33.31	5.168			
6,810.4	6,748.0	6,874.7	6,683.0	19.5	28.9	82.24	-520.2	745.4	173.5	140.1	33.45	5.187			
6,850.0	6,787.2	6,916.1	6,723.9	19.6	28.9	105.71	-526.3	745.3	179.5	145.6	33.96	5.287			
6,900.0	6,836.7	6,968.2	6,775.5	19.7	29.0	135.01	-533.2	745.2	189.4	154.9	34.49	5.491			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error:		0.0 ft
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)					
6,950.0	6,886.0	7,019.9	6,826.9	19.8	29.0	155.33	-539.2	745.1	201.7	166.8	34.89	5.780			
7,000.0	6,934.8	7,071.2	6,877.9	19.9	29.1	167.72	-544.1	745.1	216.3	181.2	35.18	6.150			
7,050.0	6,982.9	7,121.9	6,928.5	20.0	29.1	175.47	-548.1	745.0	233.3	197.9	35.36	6.598			
7,100.0	7,030.1	7,172.1	6,978.6	20.0	29.1	-179.40	-551.2	745.0	252.5	217.0	35.45	7.123			
7,150.0	7,076.1	7,221.5	7,028.0	20.1	29.2	-175.83	-553.4	744.9	273.9	238.4	35.46	7.723			
7,200.0	7,120.8	7,270.1	7,076.5	20.1	29.2	-173.23	-554.7	744.9	297.5	262.1	35.43	8.397			
7,250.0	7,163.8	7,317.7	7,124.1	20.1	29.2	-171.26	-555.2	744.9	323.2	287.9	35.35	9.143			
7,300.0	7,205.0	7,359.5	7,166.0	20.2	29.3	-169.63	-555.2	744.9	351.3	316.0	35.25	9.964			
7,350.0	7,244.1	7,398.7	7,205.1	20.2	29.3	-168.23	-555.2	744.9	382.0	346.8	35.14	10.870			
7,400.0	7,281.1	7,435.6	7,242.1	20.2	29.3	-166.95	-555.2	744.9	415.2	380.2	35.02	11.857			
7,450.0	7,315.7	7,470.2	7,276.7	20.3	29.4	-165.68	-555.2	744.9	450.8	415.9	34.89	12.921			
7,500.0	7,347.7	7,502.2	7,308.7	20.3	29.4	-164.33	-555.2	744.9	488.7	453.9	34.77	14.056			
7,550.0	7,377.0	7,531.5	7,338.0	20.4	29.4	-162.79	-555.2	744.9	528.6	493.9	34.65	15.256			
7,600.0	7,403.4	7,557.9	7,364.4	20.5	29.4	-160.94	-555.2	744.9	570.4	535.9	34.54	16.515			
7,650.0	7,426.8	7,581.4	7,387.8	20.6	29.5	-158.60	-555.2	744.9	613.9	579.5	34.44	17.828			
7,700.0	7,447.2	7,601.7	7,408.2	20.8	29.5	-155.52	-555.2	744.9	658.9	624.6	34.34	19.187			
7,750.0	7,464.3	7,618.9	7,425.3	20.9	29.5	-151.32	-555.2	744.9	705.2	670.9	34.26	20.586			
7,800.0	7,478.2	7,632.7	7,439.2	21.2	29.5	-145.31	-555.2	744.9	752.6	718.4	34.18	22.018			
7,850.0	7,488.7	7,643.2	7,449.7	21.4	29.5	-136.36	-555.2	744.9	800.8	766.6	34.11	23.477			
7,900.0	7,495.8	7,650.4	7,456.8	21.6	29.5	-122.75	-555.2	744.9	849.6	815.5	34.04	24.956			
7,950.0	7,499.5	7,654.0	7,460.5	21.9	29.5	-103.04	-555.2	744.9	898.7	864.7	33.98	26.447			
7,978.1	7,500.0	7,654.6	7,461.0	22.1	29.5	-90.00	-555.2	744.9	926.4	892.4	33.95	27.287			
8,000.0	7,500.0	7,654.6	7,461.0	22.2	29.5	-90.00	-555.2	744.9	948.0	914.1	33.93	27.943			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	54.59	195.3	274.7	337.2					
100.0	100.0	91.0	91.0	0.1	0.1	54.59	195.3	274.7	337.1	336.8	0.28	1,189.664		
200.0	200.0	191.0	191.0	0.3	0.3	54.59	195.3	274.7	337.1	336.5	0.63	535.020		
300.0	300.0	291.0	291.0	0.5	0.5	54.59	195.3	274.7	337.1	336.1	0.98	344.282		
400.0	400.0	391.0	391.0	0.7	0.7	54.59	195.3	274.7	337.1	335.8	1.33	253.800		
500.0	500.0	491.0	491.0	0.8	0.8	-59.64	195.3	274.7	336.7	335.0	1.68	200.669		
600.0	600.0	588.3	588.3	1.0	1.0	-59.80	194.5	275.8	335.7	333.7	2.03	165.696		
700.0	699.9	685.3	685.2	1.2	1.2	-59.67	191.5	279.4	334.8	332.4	2.39	140.258		
800.0	799.7	782.2	781.8	1.4	1.4	-59.24	186.5	285.5	333.8	331.1	2.77	120.426		
900.0	899.4	879.0	877.9	1.6	1.6	-58.53	179.5	294.2	333.0	329.8	3.19	104.260		
1,000.0	998.9	975.6	973.4	1.8	1.9	-57.51	170.4	305.3	332.2	328.6	3.66	90.767		
1,100.0	1,098.3	1,071.8	1,068.0	2.1	2.2	-56.21	159.4	318.8	331.7	327.5	4.18	79.412		
1,200.0	1,197.4	1,168.9	1,162.8	2.3	2.5	-54.63	146.3	334.9	331.5	326.7	4.73	70.012		
1,237.8	1,234.9	1,206.5	1,199.6	2.4	2.7	-54.04	141.1	341.3	331.3	326.3	4.95	66.863		
1,300.0	1,296.4	1,268.4	1,260.0	2.6	2.9	-53.09	132.5	351.8	330.9	325.6	5.32	62.211		
1,400.0	1,395.3	1,368.1	1,357.1	2.9	3.3	-51.55	118.6	368.8	330.6	324.7	5.91	55.969		
1,500.0	1,494.2	1,467.7	1,454.3	3.2	3.7	-50.01	104.8	385.8	330.4	324.0	6.49	50.920		
1,503.3	1,497.5	1,471.0	1,457.5	3.2	3.7	-49.96	104.3	386.4	330.4	323.9	6.51	50.769 CC		
1,600.0	1,593.2	1,567.3	1,551.5	3.5	4.1	-48.47	90.9	402.8	330.6	323.5	7.07	46.787		
1,700.0	1,692.1	1,666.9	1,648.6	3.8	4.5	-46.94	77.0	419.8	330.9	323.3	7.63	43.366 ES		
1,800.0	1,791.0	1,766.5	1,745.8	4.1	4.9	-45.41	63.2	436.8	331.5	323.3	8.18	40.507		
1,900.0	1,890.0	1,866.1	1,842.9	4.4	5.4	-43.88	49.3	453.8	332.3	323.6	8.72	38.096		
2,000.0	1,988.9	1,965.7	1,940.1	4.7	5.8	-42.37	35.5	470.8	333.4	324.1	9.25	36.050		
2,100.0	2,087.8	2,065.3	2,037.3	5.0	6.2	-40.86	21.6	487.8	334.7	324.9	9.76	34.302		
2,200.0	2,186.7	2,164.9	2,134.4	5.3	6.6	-39.37	7.8	504.8	336.2	326.0	10.25	32.801		
2,300.0	2,285.7	2,264.5	2,231.6	5.6	7.0	-37.89	-6.1	521.8	338.0	327.2	10.73	31.507		
2,400.0	2,384.6	2,364.1	2,328.7	5.9	7.4	-36.42	-20.0	538.8	340.0	328.8	11.19	30.387		
2,500.0	2,483.5	2,463.7	2,425.9	6.2	7.9	-34.98	-33.8	555.8	342.2	330.5	11.63	29.416		
2,600.0	2,582.5	2,563.3	2,523.0	6.5	8.3	-33.55	-47.7	572.8	344.6	332.5	12.06	28.573		
2,700.0	2,681.4	2,662.9	2,620.2	6.8	8.7	-32.15	-61.5	589.8	347.2	334.7	12.47	27.839		
2,800.0	2,780.3	2,762.5	2,717.4	7.1	9.1	-30.77	-75.4	606.8	350.0	337.2	12.87	27.201		
2,900.0	2,879.3	2,862.1	2,814.5	7.4	9.5	-29.41	-89.2	623.8	353.1	339.8	13.25	26.645		
3,000.0	2,978.2	2,961.7	2,911.7	7.7	10.0	-28.07	-103.1	640.8	356.3	342.7	13.62	26.162		
3,100.0	3,077.1	3,061.3	3,008.8	8.0	10.4	-26.76	-117.0	657.8	359.7	345.8	13.98	25.742		
3,200.0	3,176.1	3,160.9	3,106.0	8.3	10.8	-25.47	-130.8	674.8	363.4	349.0	14.32	25.378		
3,300.0	3,275.0	3,260.5	3,203.1	8.7	11.2	-24.21	-144.7	691.8	367.2	352.5	14.65	25.064		
3,400.0	3,373.9	3,360.1	3,300.3	9.0	11.7	-22.97	-158.5	708.8	371.1	356.2	14.97	24.793		
3,500.0	3,472.9	3,459.7	3,397.5	9.3	12.1	-21.77	-172.4	725.8	375.3	360.0	15.28	24.560		
3,600.0	3,571.8	3,559.3	3,494.6	9.6	12.5	-20.58	-186.2	742.8	379.6	364.0	15.58	24.362		
3,700.0	3,670.7	3,658.9	3,591.8	9.9	12.9	-19.43	-200.1	759.8	384.0	368.2	15.87	24.193		
3,800.0	3,769.7	3,758.5	3,688.9	10.2	13.4	-18.30	-214.0	776.8	388.6	372.5	16.16	24.051		
3,900.0	3,868.6	3,858.1	3,786.1	10.5	13.8	-17.20	-227.8	793.8	393.4	377.0	16.44	23.932		
4,000.0	3,967.5	3,957.7	3,883.3	10.8	14.2	-16.13	-241.7	810.8	398.3	381.6	16.71	23.833		
4,100.0	4,066.5	4,057.3	3,980.4	11.1	14.6	-15.08	-255.5	827.8	403.3	386.4	16.98	23.752		
4,200.0	4,165.4	4,156.9	4,077.6	11.4	15.0	-14.06	-269.4	844.8	408.5	391.3	17.25	23.687		
4,300.0	4,264.3	4,256.5	4,174.7	11.7	15.5	-13.06	-283.2	861.8	413.8	396.3	17.51	23.636		
4,400.0	4,363.3	4,356.1	4,271.9	12.1	15.9	-12.09	-297.1	878.8	419.2	401.5	17.77	23.597		
4,500.0	4,462.2	4,455.7	4,369.0	12.4	16.3	-11.14	-310.9	895.8	424.8	406.8	18.02	23.568		
4,600.0	4,561.1	4,555.3	4,466.2	12.7	16.7	-10.22	-324.8	912.8	430.4	412.2	18.28	23.547		
4,700.0	4,660.1	4,654.9	4,563.4	13.0	17.2	-9.32	-338.7	929.8	436.2	417.7	18.53	23.534		
4,800.0	4,759.0	4,754.5	4,660.5	13.3	17.6	-8.45	-352.5	946.8	442.1	423.3	18.79	23.527		
4,900.0	4,857.9	4,854.1	4,757.7	13.6	18.0	-7.60	-366.4	963.8	448.0	429.0	19.04	23.525		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,000.0	4,956.9	4,953.7	4,854.8	13.9	18.4	-6.77	-380.2	980.8	454.1	434.8	19.30	23.527		
5,100.0	5,055.8	5,053.3	4,952.0	14.2	18.9	-5.96	-394.1	997.8	460.2	440.7	19.56	23.532		
5,200.0	5,154.7	5,152.9	5,049.2	14.5	19.3	-5.18	-407.9	1,014.8	466.5	446.7	19.82	23.540		
5,300.0	5,253.7	5,252.6	5,146.3	14.8	19.7	-4.41	-421.8	1,031.8	472.8	452.7	20.08	23.550		
5,400.0	5,352.6	5,352.2	5,243.5	15.1	20.1	-3.67	-435.7	1,048.8	479.2	458.9	20.34	23.561		
5,500.0	5,451.5	5,451.8	5,340.6	15.5	20.6	-2.94	-449.5	1,065.8	485.7	465.1	20.61	23.572		
5,600.0	5,550.5	5,551.4	5,437.8	15.8	21.0	-2.24	-463.4	1,082.8	492.3	471.4	20.87	23.584		
5,700.0	5,649.4	5,651.0	5,534.9	16.1	21.4	-1.55	-477.2	1,099.8	498.9	477.8	21.14	23.596		
5,800.0	5,748.3	5,750.6	5,632.1	16.4	21.8	-0.88	-491.1	1,116.8	505.6	484.2	21.42	23.607		
5,900.0	5,847.3	5,850.2	5,729.3	16.7	22.3	-0.23	-504.9	1,133.8	512.4	490.7	21.70	23.617		
6,000.0	5,946.2	5,962.2	5,838.8	17.0	22.7	0.46	-520.0	1,152.3	518.5	496.5	22.02	23.553		
6,100.0	6,045.1	6,083.4	5,958.1	17.3	23.1	1.06	-533.4	1,168.7	521.0	498.6	22.36	23.304		
6,200.0	6,144.1	6,204.8	6,078.3	17.6	23.4	1.53	-543.6	1,181.2	519.4	496.7	22.68	22.897		
6,300.0	6,243.0	6,325.8	6,198.9	17.9	23.7	1.87	-550.6	1,189.8	513.6	490.6	22.99	22.342		
6,400.0	6,341.9	6,446.2	6,319.1	18.2	23.8	2.10	-554.3	1,194.4	503.8	480.6	23.28	21.643		
6,500.0	6,440.9	6,559.0	6,431.9	18.5	23.9	2.20	-555.1	1,195.3	490.2	466.6	23.57	20.797		
6,600.0	6,539.8	6,657.9	6,530.8	18.9	24.0	2.26	-555.1	1,195.3	475.6	451.7	23.90	19.903		
6,700.0	6,638.7	6,756.8	6,629.7	19.2	24.1	2.34	-555.1	1,195.3	461.1	436.9	24.22	19.034		
6,800.0	6,737.7	6,855.8	6,728.7	19.5	24.2	2.41	-555.1	1,195.3	446.5	422.0	24.55	18.187		
6,810.4	6,748.0	6,866.1	6,739.0	19.5	24.2	2.42	-555.1	1,195.3	445.0	420.4	24.58	18.101		
6,850.0	6,787.2	6,905.3	6,778.2	19.6	24.2	25.02	-555.1	1,195.3	439.7	415.0	24.70	17.801		
6,900.0	6,836.7	6,954.8	6,827.7	19.7	24.2	53.76	-555.1	1,195.3	434.5	409.7	24.82	17.507		
6,950.0	6,886.0	7,004.1	6,877.0	19.8	24.3	74.13	-555.1	1,195.3	430.9	406.0	24.91	17.299		
7,000.0	6,934.8	7,052.9	6,925.8	19.9	24.3	87.09	-555.1	1,195.3	429.3	404.3	25.01	17.162		
7,014.7	6,949.0	7,067.2	6,940.0	19.9	24.3	90.00	-555.1	1,195.3	429.2	404.2	25.05	17.132		
7,050.0	6,982.9	7,101.1	6,973.9	20.0	24.4	95.88	-555.1	1,195.3	429.8	404.6	25.16	17.079		
7,100.0	7,030.1	7,148.2	7,021.1	20.0	24.4	102.38	-555.1	1,195.3	432.6	407.2	25.40	17.030		
7,150.0	7,076.1	7,194.3	7,067.1	20.1	24.5	107.55	-555.1	1,195.3	438.1	412.4	25.77	16.999		
7,200.0	7,120.8	7,238.9	7,111.8	20.1	24.5	111.85	-555.1	1,195.3	446.6	420.3	26.30	16.978		
7,250.0	7,163.8	7,281.9	7,154.8	20.1	24.5	115.49	-555.1	1,195.3	458.2	431.2	27.00	16.968 SF		
7,300.0	7,205.0	7,323.1	7,196.0	20.2	24.6	118.59	-555.1	1,195.3	473.1	445.3	27.86	16.982		
7,350.0	7,244.1	7,362.2	7,235.1	20.2	24.6	121.20	-555.1	1,195.3	491.5	462.7	28.85	17.039		
7,400.0	7,281.1	7,399.2	7,272.1	20.2	24.6	123.33	-555.1	1,195.3	513.4	483.5	29.92	17.159		
7,450.0	7,315.7	7,433.8	7,306.7	20.3	24.7	124.98	-555.1	1,195.3	538.7	507.7	31.04	17.358		
7,500.0	7,347.7	7,465.8	7,338.7	20.3	24.7	126.13	-555.1	1,195.3	567.4	535.2	32.15	17.646		
7,550.0	7,377.0	7,495.1	7,368.0	20.4	24.7	126.75	-555.1	1,195.3	599.1	565.9	33.23	18.027		
7,600.0	7,403.4	7,521.5	7,394.4	20.5	24.8	126.77	-555.1	1,195.3	633.8	599.5	34.26	18.500		
7,650.0	7,426.8	7,545.0	7,417.8	20.6	24.8	126.13	-555.1	1,195.3	671.1	635.9	35.21	19.060		
7,700.0	7,447.2	7,565.3	7,438.2	20.8	24.8	124.68	-555.1	1,195.3	710.8	674.7	36.08	19.700		
7,750.0	7,464.3	7,582.4	7,455.3	20.9	24.8	122.26	-555.1	1,195.3	752.5	715.6	36.86	20.412		
7,800.0	7,478.2	7,596.3	7,469.2	21.2	24.8	118.61	-555.1	1,195.3	796.0	758.4	37.57	21.186		
7,850.0	7,488.7	7,606.8	7,479.7	21.4	24.8	113.38	-555.1	1,195.3	840.9	802.7	38.20	22.014		
7,900.0	7,495.8	7,613.9	7,486.8	21.6	24.8	106.13	-555.1	1,195.3	887.0	848.3	38.76	22.887		
7,950.0	7,499.5	7,617.6	7,490.5	21.9	24.8	96.48	-555.1	1,195.3	934.0	894.7	39.25	23.797		
7,978.1	7,500.0	7,618.1	7,491.0	22.1	24.8	90.00	-555.1	1,195.3	960.6	921.1	39.50	24.320		
8,000.0	7,500.0	7,618.1	7,491.0	22.2	24.8	90.00	-555.1	1,195.3	981.5	941.8	39.68	24.732		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
9,500.0	7,500.0	7,657.7	7,461.0	40.3	30.1	90.00	1,976.5	1,888.8	995.4	938.8	56.56	17.598		
9,596.1	7,500.0	7,657.7	7,461.0	41.8	30.1	90.00	1,976.5	1,888.8	990.7	929.5	61.23	16.180	CC	
9,600.0	7,500.0	7,657.7	7,461.0	41.8	30.1	90.00	1,976.5	1,888.8	990.7	929.3	61.41	16.132	ES	
9,700.0	7,500.0	7,657.7	7,461.0	43.4	30.1	90.00	1,976.5	1,888.8	996.1	930.2	65.89	15.117	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY													Offset Well Error:	0.0 ft
Survey Program: 850-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,300.0	7,500.0	7,567.6	7,461.0	24.7	24.0	90.00	738.1	1,891.8	995.4	963.0	32.40	30.724		
8,357.8	7,500.0	7,567.6	7,461.0	25.3	24.0	90.00	738.1	1,891.8	993.7	960.3	33.38	29.766	CC, ES	
8,400.0	7,500.0	7,567.6	7,461.0	25.7	24.0	90.00	738.1	1,891.8	994.6	960.4	34.18	29.095	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 70-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	54.59	195.3	274.7	337.2					
100.0	100.0	88.0	88.0	0.1	0.1	54.61	195.5	275.2	337.6	337.3	0.28	1,223.618		
200.0	200.0	184.9	184.9	0.3	0.3	54.72	195.6	276.5	338.7	338.1	0.62	546.352		
300.0	300.0	282.8	282.8	0.5	0.5	55.21	194.3	279.7	340.7	339.7	0.97	349.718		
400.0	400.0	376.0	375.7	0.7	0.7	56.15	191.5	285.5	344.1	342.8	1.34	257.469		
500.0	500.0	472.2	471.4	0.8	0.9	-56.62	187.1	294.4	348.9	347.2	1.73	201.827		
600.0	600.0	566.8	565.1	1.0	1.2	-55.14	181.0	305.1	353.7	351.5	2.15	164.801		
700.0	699.9	658.9	656.0	1.2	1.5	-53.50	173.6	318.4	359.6	357.0	2.59	138.617		
800.0	799.7	750.4	745.7	1.4	1.9	-51.70	164.8	334.5	366.9	363.8	3.06	119.730		
900.0	899.4	840.5	833.5	1.6	2.2	-50.03	156.3	352.6	375.8	372.3	3.54	106.163		
1,000.0	998.9	934.3	924.6	1.8	2.7	-48.45	147.7	373.4	385.8	381.8	4.05	95.259		
1,100.0	1,098.3	1,025.3	1,012.3	2.1	3.1	-46.77	137.4	395.5	396.2	391.6	4.58	86.436		
1,200.0	1,197.4	1,111.5	1,094.1	2.3	3.7	-45.00	125.9	419.5	408.5	403.4	5.12	79.866		
1,237.8	1,234.9	1,143.6	1,124.4	2.4	3.9	-44.33	121.4	429.3	413.8	408.5	5.31	77.887		
1,300.0	1,296.4	1,197.6	1,175.0	2.6	4.2	-43.24	113.7	446.6	423.3	417.7	5.65	74.953		
1,400.0	1,395.3	1,286.0	1,257.1	2.9	4.8	-41.39	100.4	476.7	440.9	434.7	6.19	71.266		
1,500.0	1,494.2	1,378.9	1,342.3	3.2	5.5	-39.31	84.8	510.2	460.6	453.8	6.74	68.324		
1,600.0	1,593.2	1,475.4	1,430.2	3.5	6.3	-37.08	66.8	545.5	481.1	473.9	7.29	66.008		
1,700.0	1,692.1	1,567.6	1,514.2	3.8	7.0	-35.13	49.6	579.5	502.6	494.8	7.76	64.751		
1,800.0	1,791.0	1,660.1	1,598.7	4.1	7.7	-33.55	34.6	614.1	525.4	517.2	8.21	63.985		
1,900.0	1,890.0	1,753.9	1,684.3	4.4	8.4	-32.14	20.0	649.6	549.1	540.5	8.66	63.409		
2,000.0	1,988.9	1,842.8	1,765.0	4.7	9.1	-30.89	6.1	683.9	574.0	564.9	9.06	63.373		
2,100.0	2,087.8	1,945.1	1,858.0	5.0	9.9	-29.56	-10.0	723.7	599.3	589.8	9.53	62.921		
2,200.0	2,186.7	2,060.5	1,963.5	5.3	10.8	-28.10	-29.3	766.1	622.7	612.7	10.03	62.064		
2,300.0	2,285.7	2,161.6	2,056.9	5.6	11.5	-26.96	-46.0	801.2	644.2	633.7	10.45	61.620		
2,400.0	2,384.6	2,262.3	2,149.7	5.9	12.3	-25.86	-63.1	836.1	666.0	655.1	10.86	61.299		
2,500.0	2,483.5	2,377.3	2,256.4	6.2	13.1	-24.64	-83.3	874.1	686.2	674.9	11.31	60.655		
2,600.0	2,582.5	2,477.8	2,350.5	6.5	13.7	-23.85	-98.5	905.8	705.0	693.3	11.68	60.377		
2,700.0	2,681.4	2,576.6	2,443.4	6.8	14.3	-23.29	-111.1	937.2	724.0	712.0	12.05	60.079		
2,800.0	2,780.3	2,694.0	2,554.2	7.1	15.1	-22.64	-126.5	972.5	741.5	729.0	12.50	59.320		
2,900.0	2,879.3	2,781.6	2,637.2	7.4	15.6	-22.15	-138.3	998.0	757.9	745.1	12.82	59.125		
3,000.0	2,978.2	2,891.0	2,740.5	7.7	16.3	-21.53	-153.5	1,030.9	775.6	762.3	13.23	58.609		
3,100.0	3,077.1	2,993.5	2,837.3	8.0	16.9	-20.76	-170.7	1,059.9	791.6	778.0	13.60	58.215		
3,200.0	3,176.1	3,095.4	2,933.8	8.3	17.5	-20.10	-186.7	1,088.2	807.1	793.2	13.94	57.921		
3,300.0	3,275.0	3,184.2	3,018.0	8.7	18.1	-19.66	-199.0	1,113.5	823.3	809.0	14.25	57.766		
3,400.0	3,373.9	3,273.9	3,102.6	9.0	18.6	-19.12	-213.2	1,139.9	840.7	826.1	14.56	57.728		
3,500.0	3,472.9	3,368.5	3,191.6	9.3	19.2	-18.57	-228.1	1,168.3	858.8	843.9	14.87	57.751		
3,600.0	3,571.8	3,470.3	3,287.6	9.6	19.9	-18.17	-241.8	1,199.3	877.1	861.9	15.22	57.641		
3,700.0	3,670.7	3,579.9	3,391.3	9.9	20.5	-17.80	-255.7	1,231.7	894.5	878.8	15.61	57.297		
3,800.0	3,769.7	3,676.8	3,483.2	10.2	21.1	-17.44	-268.6	1,259.7	911.2	895.3	15.94	57.180		
3,900.0	3,868.6	3,768.0	3,569.5	10.5	21.7	-17.15	-280.3	1,286.7	928.7	912.4	16.25	57.134		
4,000.0	3,967.5	3,868.6	3,664.6	10.8	22.3	-16.79	-294.1	1,316.4	946.2	929.6	16.60	57.000 SF		
4,100.0	4,066.5	3,943.0	3,734.7	11.1	22.8	-16.55	-304.1	1,339.4	965.0	948.1	16.84	57.297		
4,200.0	4,165.4	4,034.9	3,820.9	11.4	23.4	-16.32	-315.6	1,369.3	985.4	968.3	17.16	57.441		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	-89.74	0.8	-179.9	179.9					
100.0	100.0	102.0	102.0	0.1	0.2	-89.74	0.8	-179.9	179.9	179.6	0.30	599.289		
116.0	116.0	118.0	118.0	0.2	0.2	-89.74	0.8	-179.9	179.9	179.5	0.36	505.351	CC	
200.0	200.0	201.9	201.9	0.3	0.3	-89.74	0.8	-179.9	179.9	179.3	0.65	277.135	ES	
300.0	300.0	300.0	300.0	0.5	0.5	-89.67	1.0	-180.7	180.8	179.8	0.99	181.691		
400.0	400.0	396.0	395.9	0.7	0.7	-89.47	1.7	-183.1	183.2	181.9	1.34	137.065		
500.0	500.0	492.8	492.7	0.8	0.9	156.84	2.8	-187.1	188.2	186.5	1.68	111.962		
600.0	600.0	589.3	589.0	1.0	1.0	157.52	4.3	-192.6	196.3	194.3	2.02	97.005		
700.0	699.9	687.7	687.2	1.2	1.2	158.40	6.2	-199.5	207.4	205.0	2.37	87.423		
800.0	799.7	786.9	786.0	1.4	1.5	159.36	8.1	-206.4	220.1	217.4	2.72	80.867		
900.0	899.4	885.7	884.6	1.6	1.7	160.35	10.0	-213.3	234.6	231.5	3.07	76.353		
1,000.0	998.9	984.3	983.0	1.8	1.9	161.34	11.9	-220.2	250.7	247.3	3.42	73.261		
1,100.0	1,098.3	1,082.6	1,081.0	2.1	2.1	162.32	13.8	-227.1	268.6	264.8	3.77	71.198		
1,200.0	1,197.4	1,180.5	1,178.7	2.3	2.3	163.27	15.7	-233.9	288.2	284.1	4.12	69.908		
1,237.8	1,234.9	1,217.5	1,215.5	2.4	2.4	163.62	16.4	-236.5	296.0	291.8	4.25	69.586		
1,300.0	1,296.4	1,278.2	1,276.1	2.6	2.5	164.20	17.6	-240.8	309.2	304.7	4.47	69.151		
1,400.0	1,395.3	1,375.8	1,373.4	2.9	2.7	165.04	19.5	-247.6	330.3	325.5	4.82	68.554		
1,500.0	1,494.2	1,473.4	1,470.8	3.2	2.9	165.78	21.4	-254.4	351.6	346.4	5.17	68.056		
1,600.0	1,593.2	1,571.1	1,568.2	3.5	3.1	166.43	23.2	-261.3	372.8	367.3	5.51	67.637		
1,700.0	1,692.1	1,668.7	1,665.6	3.8	3.3	167.01	25.1	-268.1	394.2	388.3	5.86	67.281		
1,800.0	1,791.0	1,766.3	1,762.9	4.1	3.5	167.54	27.0	-274.9	415.5	409.3	6.20	66.973		
1,900.0	1,890.0	1,863.9	1,860.3	4.4	3.7	168.01	28.9	-281.8	436.9	430.3	6.55	66.707		
2,000.0	1,988.9	1,961.6	1,957.7	4.7	4.0	168.44	30.8	-288.6	458.3	451.4	6.89	66.473		
2,100.0	2,087.8	2,059.2	2,055.0	5.0	4.2	168.82	32.7	-295.4	479.7	472.5	7.24	66.268		
2,200.0	2,186.7	2,156.8	2,152.4	5.3	4.4	169.18	34.5	-302.2	501.2	493.6	7.58	66.085		
2,300.0	2,285.7	2,254.5	2,249.8	5.6	4.6	169.51	36.4	-309.1	522.6	514.7	7.93	65.921		
2,400.0	2,384.6	2,352.1	2,347.1	5.9	4.8	169.81	38.3	-315.9	544.1	535.9	8.27	65.775		
2,500.0	2,483.5	2,449.7	2,444.5	6.2	5.0	170.09	40.2	-322.7	565.6	557.0	8.62	65.642		
2,600.0	2,582.5	2,547.3	2,541.9	6.5	5.2	170.35	42.1	-329.6	587.1	578.2	8.96	65.522		
2,700.0	2,681.4	2,645.0	2,639.2	6.8	5.4	170.59	44.0	-336.4	608.7	599.3	9.30	65.413		
2,800.0	2,780.3	2,742.6	2,736.6	7.1	5.6	170.81	45.8	-343.2	630.2	620.5	9.65	65.312		
2,900.0	2,879.3	2,840.2	2,834.0	7.4	5.9	171.02	47.7	-350.0	651.7	641.7	9.99	65.220		
3,000.0	2,978.2	2,937.8	2,931.4	7.7	6.1	171.21	49.6	-356.9	673.3	662.9	10.34	65.135		
3,100.0	3,077.1	3,035.5	3,028.7	8.0	6.3	171.40	51.5	-363.7	694.8	684.1	10.68	65.057		
3,200.0	3,176.1	3,133.1	3,126.1	8.3	6.5	171.57	53.4	-370.5	716.4	705.3	11.02	64.984		
3,300.0	3,275.0	3,230.7	3,223.5	8.7	6.7	171.73	55.3	-377.4	737.9	726.6	11.37	64.917		
3,400.0	3,373.9	3,328.3	3,320.8	9.0	6.9	171.88	57.2	-384.2	759.5	747.8	11.71	64.854		
3,500.0	3,472.9	3,426.0	3,418.2	9.3	7.1	172.03	59.0	-391.0	781.1	769.0	12.05	64.795		
3,600.0	3,571.8	3,523.6	3,515.6	9.6	7.3	172.16	60.9	-397.8	802.7	790.3	12.40	64.740		
3,700.0	3,670.7	3,621.2	3,612.9	9.9	7.5	172.29	62.8	-404.7	824.2	811.5	12.74	64.688		
3,800.0	3,769.7	3,718.9	3,710.3	10.2	7.7	172.42	64.7	-411.5	845.8	832.7	13.09	64.639		
3,900.0	3,868.6	3,816.5	3,807.7	10.5	8.0	172.53	66.6	-418.3	867.4	854.0	13.43	64.593		
4,000.0	3,967.5	3,914.1	3,905.0	10.8	8.2	172.64	68.5	-425.2	889.0	875.2	13.77	64.550		
4,100.0	4,066.5	4,011.7	4,002.4	11.1	8.4	172.75	70.3	-432.0	910.6	896.5	14.12	64.509		
4,200.0	4,165.4	4,109.4	4,099.8	11.4	8.6	172.85	72.2	-438.8	932.2	917.7	14.46	64.470		
4,300.0	4,264.3	4,207.0	4,197.2	11.7	8.8	172.95	74.1	-445.7	953.8	939.0	14.80	64.434		
4,400.0	4,363.3	4,304.6	4,294.5	12.1	9.0	173.04	76.0	-452.5	975.4	960.3	15.15	64.399		
4,500.0	4,462.2	4,402.2	4,391.9	12.4	9.2	173.13	77.9	-459.3	997.0	981.5	15.49	64.366	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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4B-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-89.75	0.7	-170.1	170.1					
100.0	100.0	101.0	101.0	0.1	0.2	-89.75	0.7	-170.1	170.1	169.8	0.30	569.982		
200.0	200.0	201.0	201.0	0.3	0.3	-89.75	0.7	-170.1	170.1	169.5	0.65	262.714		
216.3	216.3	217.3	217.3	0.4	0.4	-89.75	0.7	-170.1	170.1	169.4	0.70	241.458	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-89.75	0.7	-170.1	170.1	169.1	0.99	171.000	ES	
400.0	400.0	397.8	397.8	0.7	0.7	-89.63	1.1	-171.0	171.0	169.7	1.34	127.638		
500.0	500.0	494.6	494.5	0.8	0.8	156.71	2.2	-173.7	174.6	172.9	1.68	103.710		
600.0	600.0	592.9	592.7	1.0	1.0	157.51	3.8	-177.9	181.4	179.3	2.03	89.307		
700.0	699.9	692.4	692.2	1.2	1.2	158.48	5.6	-182.4	190.0	187.6	2.38	79.772		
800.0	799.7	791.8	791.5	1.4	1.4	159.53	7.3	-186.9	200.3	197.5	2.73	73.288		
900.0	899.4	891.0	890.5	1.6	1.6	160.62	9.1	-191.3	212.2	209.2	3.08	68.826		
1,000.0	998.9	990.0	989.4	1.8	1.8	161.73	10.8	-195.8	225.9	222.5	3.43	65.775		
1,100.0	1,098.3	1,088.7	1,088.0	2.1	2.0	162.84	12.6	-200.2	241.4	237.6	3.79	63.749		
1,200.0	1,197.4	1,187.1	1,186.2	2.3	2.2	163.90	14.3	-204.7	258.5	254.4	4.14	62.494		
1,237.8	1,234.9	1,224.2	1,223.3	2.4	2.2	164.30	15.0	-206.3	265.5	261.2	4.27	62.184		
1,300.0	1,296.4	1,285.2	1,284.3	2.6	2.3	164.94	16.1	-209.1	277.1	272.6	4.49	61.769		
1,400.0	1,395.3	1,383.3	1,382.3	2.9	2.5	165.87	17.8	-213.5	295.9	291.1	4.83	61.202		
1,500.0	1,494.2	1,481.5	1,480.3	3.2	2.7	166.69	19.5	-217.9	314.7	309.6	5.18	60.733		
1,600.0	1,593.2	1,579.6	1,578.3	3.5	2.9	167.42	21.3	-222.3	333.6	328.1	5.53	60.339		
1,700.0	1,692.1	1,677.7	1,676.3	3.8	3.1	168.06	23.0	-226.7	352.6	346.7	5.88	60.006		
1,800.0	1,791.0	1,775.8	1,774.3	4.1	3.3	168.65	24.7	-231.1	371.6	365.4	6.22	59.721		
1,900.0	1,890.0	1,873.9	1,872.3	4.4	3.5	169.17	26.5	-235.6	390.6	384.0	6.57	59.475		
2,000.0	1,988.9	1,972.0	1,970.3	4.7	3.7	169.65	28.2	-240.0	409.7	402.7	6.91	59.260		
2,100.0	2,087.8	2,070.1	2,068.3	5.0	3.9	170.08	29.9	-244.4	428.7	421.5	7.26	59.071		
2,200.0	2,186.7	2,168.3	2,166.3	5.3	4.1	170.48	31.7	-248.8	447.8	440.2	7.60	58.904		
2,300.0	2,285.7	2,266.4	2,264.3	5.6	4.2	170.85	33.4	-253.2	467.0	459.0	7.95	58.756		
2,400.0	2,384.6	2,364.5	2,362.3	5.9	4.4	171.18	35.1	-257.6	486.1	477.8	8.29	58.623		
2,500.0	2,483.5	2,462.6	2,460.3	6.2	4.6	171.49	36.9	-262.0	505.2	496.6	8.64	58.503		
2,600.0	2,582.5	2,560.7	2,558.2	6.5	4.8	171.78	38.6	-266.4	524.4	515.4	8.98	58.394		
2,700.0	2,681.4	2,658.8	2,656.2	6.8	5.0	172.05	40.3	-270.9	543.6	534.3	9.32	58.295		
2,800.0	2,780.3	2,756.9	2,754.2	7.1	5.2	172.30	42.1	-275.3	562.8	553.1	9.67	58.205		
2,900.0	2,879.3	2,855.0	2,852.2	7.4	5.4	172.53	43.8	-279.7	582.0	571.9	10.01	58.123		
3,000.0	2,978.2	2,953.2	2,950.2	7.7	5.6	172.75	45.5	-284.1	601.2	590.8	10.36	58.047		
3,100.0	3,077.1	3,051.3	3,048.2	8.0	5.8	172.96	47.3	-288.5	620.4	609.7	10.70	57.977		
3,200.0	3,176.1	3,149.4	3,146.2	8.3	6.0	173.15	49.0	-292.9	639.6	628.6	11.04	57.912		
3,300.0	3,275.0	3,247.5	3,244.2	8.7	6.1	173.33	50.7	-297.3	658.8	647.4	11.39	57.851		
3,400.0	3,373.9	3,345.6	3,342.2	9.0	6.3	173.50	52.5	-301.7	678.1	666.3	11.73	57.795		
3,500.0	3,472.9	3,443.7	3,440.2	9.3	6.5	173.66	54.2	-306.2	697.3	685.2	12.08	57.743		
3,600.0	3,571.8	3,541.8	3,538.2	9.6	6.7	173.81	55.9	-310.6	716.5	704.1	12.42	57.694		
3,700.0	3,670.7	3,640.0	3,636.2	9.9	6.9	173.96	57.7	-315.0	735.8	723.0	12.76	57.648		
3,800.0	3,769.7	3,738.1	3,734.2	10.2	7.1	174.10	59.4	-319.4	755.0	741.9	13.11	57.605		
3,900.0	3,868.6	3,836.2	3,832.2	10.5	7.3	174.23	61.1	-323.8	774.3	760.8	13.45	57.564		
4,000.0	3,967.5	3,934.3	3,930.2	10.8	7.5	174.35	62.9	-328.2	793.5	779.8	13.79	57.526		
4,100.0	4,066.5	4,032.4	4,028.2	11.1	7.7	174.47	64.6	-332.6	812.8	798.7	14.14	57.490		
4,200.0	4,165.4	4,130.5	4,126.2	11.4	7.9	174.58	66.3	-337.1	832.1	817.6	14.48	57.455		
4,300.0	4,264.3	4,228.6	4,224.2	11.7	8.0	174.69	68.1	-341.5	851.3	836.5	14.83	57.423		
4,400.0	4,363.3	4,326.8	4,322.2	12.1	8.2	174.79	69.8	-345.9	870.6	855.4	15.17	57.392		
4,500.0	4,462.2	4,424.9	4,420.2	12.4	8.4	174.89	71.5	-350.3	889.9	874.4	15.51	57.363		
4,600.0	4,561.1	4,523.0	4,518.2	12.7	8.6	174.99	73.3	-354.7	909.2	893.3	15.86	57.335		
4,700.0	4,660.1	4,621.1	4,616.2	13.0	8.8	175.08	75.0	-359.1	928.4	912.2	16.20	57.308		
4,800.0	4,759.0	4,719.2	4,714.2	13.3	9.0	175.16	76.7	-363.5	947.7	931.2	16.54	57.283		
4,900.0	4,857.9	4,817.3	4,812.2	13.6	9.2	175.25	78.5	-367.9	967.0	950.1	16.89	57.259		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4B-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,000.0	4,956.9	4,915.4	4,910.2	13.9	9.4	175.33	80.2	-372.4	986.3	969.1	17.23	57.236 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4C-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-89.75	0.7	-160.0	160.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.75	0.7	-160.0	160.0	159.7	0.30	536.233		
200.0	200.0	201.0	201.0	0.3	0.3	-89.75	0.7	-160.0	160.0	159.4	0.65	247.159		
216.3	216.3	217.3	217.3	0.4	0.4	-89.75	0.7	-160.0	160.0	159.3	0.70	227.161	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-89.75	0.7	-160.0	160.0	159.0	0.99	160.875	ES	
400.0	400.0	398.7	398.7	0.7	0.7	-89.58	1.2	-160.7	160.8	159.4	1.34	119.815		
500.0	500.0	497.5	497.4	0.8	0.8	156.89	2.5	-162.7	163.5	161.9	1.69	96.807		
600.0	600.0	597.3	597.3	1.0	1.0	157.70	4.0	-164.8	168.1	166.1	2.04	82.438		
700.0	699.9	697.1	697.0	1.2	1.2	158.68	5.4	-167.0	174.4	172.0	2.39	72.957		
800.0	799.7	796.7	796.6	1.4	1.4	159.77	6.9	-169.1	182.3	179.6	2.74	66.503		
900.0	899.4	896.2	896.0	1.6	1.6	160.94	8.3	-171.3	192.0	188.9	3.09	62.059		
1,000.0	998.9	995.4	995.2	1.8	1.7	162.14	9.8	-173.4	203.4	199.9	3.45	59.020		
1,100.0	1,098.3	1,094.5	1,094.2	2.1	1.9	163.34	11.2	-175.5	216.5	212.7	3.80	57.004		
1,200.0	1,197.4	1,193.2	1,193.0	2.3	2.1	164.51	12.7	-177.7	231.4	227.2	4.15	55.759		
1,237.8	1,234.9	1,230.5	1,230.2	2.4	2.2	164.95	13.2	-178.5	237.4	233.2	4.28	55.453		
1,300.0	1,296.4	1,291.8	1,291.5	2.6	2.3	165.65	14.1	-179.8	247.7	243.2	4.50	55.043		
1,400.0	1,395.3	1,390.3	1,390.0	2.9	2.4	166.66	15.5	-181.9	264.2	259.3	4.85	54.484		
1,500.0	1,494.2	1,488.8	1,488.5	3.2	2.6	167.56	17.0	-184.0	280.8	275.6	5.20	54.023		
1,600.0	1,593.2	1,587.4	1,587.0	3.5	2.8	168.35	18.4	-186.2	297.4	291.9	5.54	53.637		
1,700.0	1,692.1	1,685.9	1,685.4	3.8	3.0	169.06	19.8	-188.3	314.1	308.2	5.89	53.310		
1,800.0	1,791.0	1,784.4	1,783.9	4.1	3.2	169.70	21.3	-190.4	330.8	324.6	6.24	53.031		
1,900.0	1,890.0	1,882.9	1,882.4	4.4	3.3	170.28	22.7	-192.5	347.6	341.0	6.58	52.790		
2,000.0	1,988.9	1,981.5	1,980.9	4.7	3.5	170.80	24.2	-194.6	364.4	357.5	6.93	52.579		
2,100.0	2,087.8	2,080.0	2,079.4	5.0	3.7	171.28	25.6	-196.8	381.2	374.0	7.28	52.395		
2,200.0	2,186.7	2,178.5	2,177.9	5.3	3.9	171.72	27.0	-198.9	398.1	390.5	7.62	52.232		
2,300.0	2,285.7	2,277.0	2,276.4	5.6	4.0	172.12	28.5	-201.0	415.0	407.0	7.97	52.086		
2,400.0	2,384.6	2,375.6	2,374.9	5.9	4.2	172.49	29.9	-203.1	431.9	423.5	8.31	51.956		
2,500.0	2,483.5	2,474.1	2,473.4	6.2	4.4	172.83	31.3	-205.3	448.8	440.1	8.66	51.839		
2,600.0	2,582.5	2,572.6	2,571.9	6.5	4.6	173.15	32.8	-207.4	465.7	456.7	9.00	51.733		
2,700.0	2,681.4	2,671.1	2,670.4	6.8	4.8	173.44	34.2	-209.5	482.6	473.3	9.35	51.636		
2,800.0	2,780.3	2,769.7	2,768.9	7.1	4.9	173.72	35.7	-211.6	499.6	489.9	9.69	51.548		
2,900.0	2,879.3	2,868.2	2,867.4	7.4	5.1	173.98	37.1	-213.7	516.5	506.5	10.04	51.467		
3,000.0	2,978.2	2,966.7	2,965.8	7.7	5.3	174.22	38.5	-215.9	533.5	523.1	10.38	51.392		
3,100.0	3,077.1	3,065.2	3,064.3	8.0	5.5	174.44	40.0	-218.0	550.5	539.8	10.73	51.324		
3,200.0	3,176.1	3,163.8	3,162.8	8.3	5.6	174.66	41.4	-220.1	567.5	556.4	11.07	51.260		
3,300.0	3,275.0	3,262.3	3,261.3	8.7	5.8	174.86	42.9	-222.2	584.5	573.0	11.41	51.201		
3,400.0	3,373.9	3,360.8	3,359.8	9.0	6.0	175.05	44.3	-224.4	601.5	589.7	11.76	51.145		
3,500.0	3,472.9	3,459.3	3,458.3	9.3	6.2	175.22	45.7	-226.5	618.5	606.4	12.10	51.094		
3,600.0	3,571.8	3,557.9	3,556.8	9.6	6.4	175.39	47.2	-228.6	635.5	623.0	12.45	51.046		
3,700.0	3,670.7	3,656.4	3,655.3	9.9	6.5	175.55	48.6	-230.7	652.5	639.7	12.79	51.000		
3,800.0	3,769.7	3,754.9	3,753.8	10.2	6.7	175.71	50.0	-232.8	669.5	656.4	13.14	50.958		
3,900.0	3,868.6	3,853.5	3,852.3	10.5	6.9	175.85	51.5	-235.0	686.5	673.0	13.48	50.918		
4,000.0	3,967.5	3,952.0	3,950.8	10.8	7.1	175.99	52.9	-237.1	703.5	689.7	13.83	50.880		
4,100.0	4,066.5	4,050.5	4,049.3	11.1	7.2	176.12	54.4	-239.2	720.6	706.4	14.17	50.844		
4,200.0	4,165.4	4,149.0	4,147.8	11.4	7.4	176.24	55.8	-241.3	737.6	723.1	14.52	50.810		
4,300.0	4,264.3	4,247.6	4,246.3	11.7	7.6	176.36	57.2	-243.4	754.7	739.8	14.86	50.778		
4,400.0	4,363.3	4,346.1	4,344.7	12.1	7.8	176.48	58.7	-245.6	771.7	756.5	15.21	50.748		
4,500.0	4,462.2	4,444.6	4,443.2	12.4	8.0	176.59	60.1	-247.7	788.7	773.2	15.55	50.719		
4,600.0	4,561.1	4,543.1	4,541.7	12.7	8.1	176.69	61.6	-249.8	805.8	789.9	15.90	50.691		
4,700.0	4,660.1	4,641.7	4,640.2	13.0	8.3	176.79	63.0	-251.9	822.8	806.6	16.24	50.664		
4,800.0	4,759.0	4,740.2	4,738.7	13.3	8.5	176.89	64.4	-254.1	839.9	823.3	16.59	50.639		
4,900.0	4,857.9	4,838.7	4,837.2	13.6	8.7	176.98	65.9	-256.2	856.9	840.0	16.93	50.615		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4C-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,956.9	4,937.2	4,935.7	13.9	8.8	177.07	67.3	-258.3	874.0	856.7	17.28	50.592		
5,100.0	5,055.8	5,035.8	5,034.2	14.2	9.0	177.15	68.7	-260.4	891.0	873.4	17.62	50.570		
5,200.0	5,154.7	5,134.3	5,132.7	14.5	9.2	177.24	70.2	-262.5	908.1	890.1	17.96	50.549		
5,300.0	5,253.7	5,232.8	5,231.2	14.8	9.4	177.32	71.6	-264.7	925.2	906.9	18.31	50.529		
5,400.0	5,352.6	5,331.3	5,329.7	15.1	9.6	177.39	73.1	-266.8	942.2	923.6	18.65	50.509		
5,500.0	5,451.5	5,429.9	5,428.2	15.5	9.7	177.47	74.5	-268.9	959.3	940.3	19.00	50.491		
5,600.0	5,550.5	5,528.4	5,526.7	15.8	9.9	177.54	75.9	-271.0	976.4	957.0	19.34	50.473		
5,700.0	5,649.4	5,626.9	5,625.1	16.1	10.1	177.60	77.4	-273.2	993.4	973.7	19.69	50.455 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	-89.76	0.6	-150.0	150.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.76	0.6	-150.0	150.0	149.7	0.30	502.484		
200.0	200.0	201.0	201.0	0.3	0.3	-89.76	0.6	-150.0	150.0	149.3	0.65	231.603		
300.0	300.0	301.0	301.0	0.5	0.5	-89.76	0.6	-150.0	150.0	149.0	1.00	150.481		
400.0	400.0	401.0	401.0	0.7	0.7	-89.76	0.6	-150.0	150.0	148.6	1.35	111.442		
500.0	500.0	503.7	503.7	0.8	0.9	156.28	0.6	-149.0	149.9	148.2	1.70	88.180		
600.0	600.0	606.4	606.3	1.0	1.0	156.70	0.6	-146.2	149.5	147.5	2.05	72.837		
700.0	699.9	709.0	708.9	1.2	1.2	157.40	0.6	-141.6	149.1	146.7	2.41	61.919		
755.8	755.5	765.3	765.1	1.3	1.3	157.91	0.6	-138.4	148.8	146.2	2.60	57.152 CC, ES		
800.0	799.7	809.6	809.2	1.4	1.4	158.36	0.6	-135.9	149.0	146.2	2.76	53.989		
900.0	899.4	909.5	909.0	1.6	1.6	159.54	0.6	-130.1	150.6	147.5	3.11	48.373		
1,000.0	998.9	1,009.4	1,008.7	1.8	1.8	160.91	0.6	-124.4	153.9	150.4	3.47	44.383		
1,100.0	1,098.3	1,109.2	1,108.3	2.1	2.0	162.40	0.5	-118.7	158.9	155.1	3.82	41.584		
1,200.0	1,197.4	1,208.8	1,207.8	2.3	2.2	163.97	0.5	-112.9	165.7	161.6	4.18	39.685		
1,237.8	1,234.9	1,246.5	1,245.5	2.4	2.3	164.57	0.5	-110.8	168.8	164.5	4.31	39.159		
1,300.0	1,296.4	1,308.4	1,307.2	2.6	2.4	165.54	0.5	-107.2	174.0	169.5	4.53	38.418		
1,400.0	1,395.3	1,407.9	1,406.6	2.9	2.6	166.98	0.5	-101.5	182.6	177.7	4.88	37.392		
1,500.0	1,494.2	1,507.4	1,506.0	3.2	2.8	168.29	0.5	-95.7	191.2	186.0	5.23	36.529		
1,600.0	1,593.2	1,607.0	1,605.3	3.5	3.0	169.48	0.4	-90.0	199.9	194.3	5.59	35.796		
1,700.0	1,692.1	1,706.5	1,704.7	3.8	3.2	170.58	0.4	-84.3	208.7	202.8	5.94	35.164		
1,800.0	1,791.0	1,806.0	1,804.1	4.1	3.4	171.59	0.4	-78.6	217.6	211.3	6.29	34.615		
1,900.0	1,890.0	1,905.6	1,903.5	4.4	3.6	172.52	0.4	-72.8	226.5	219.9	6.64	34.133		
2,000.0	1,988.9	2,005.1	2,002.8	4.7	3.8	173.37	0.4	-67.1	235.5	228.6	6.99	33.707		
2,100.0	2,087.8	2,104.6	2,102.2	5.0	4.0	174.17	0.4	-61.4	244.6	237.2	7.34	33.327		
2,200.0	2,186.7	2,204.2	2,201.6	5.3	4.2	174.91	0.3	-55.7	253.7	246.0	7.69	32.986		
2,300.0	2,285.7	2,303.7	2,300.9	5.6	4.4	175.59	0.3	-49.9	262.8	254.7	8.04	32.678		
2,400.0	2,384.6	2,403.3	2,400.3	5.9	4.6	176.24	0.3	-44.2	272.0	263.6	8.39	32.398		
2,500.0	2,483.5	2,502.8	2,499.7	6.2	4.8	176.83	0.3	-38.5	281.1	272.4	8.75	32.143		
2,600.0	2,582.5	2,602.3	2,599.0	6.5	5.0	177.40	0.3	-32.8	290.4	281.3	9.10	31.909		
2,700.0	2,681.4	2,701.9	2,698.4	6.8	5.2	177.92	0.2	-27.0	299.6	290.2	9.45	31.693		
2,800.0	2,780.3	2,801.4	2,797.8	7.1	5.4	178.42	0.2	-21.3	308.9	299.1	9.81	31.494		
2,900.0	2,879.3	2,900.9	2,897.2	7.4	5.6	178.88	0.2	-15.6	318.2	308.0	10.16	31.310		
3,000.0	2,978.2	3,000.5	2,996.5	7.7	5.8	179.32	0.2	-9.9	327.5	317.0	10.52	31.138		
3,100.0	3,077.1	3,100.0	3,095.9	8.0	6.0	179.74	0.2	-4.1	336.8	325.9	10.87	30.978		
3,200.0	3,176.1	3,199.5	3,195.3	8.3	6.2	-179.87	0.2	1.6	346.1	334.9	11.23	30.828		
3,300.0	3,275.0	3,299.1	3,294.6	8.7	6.4	-179.50	0.1	7.3	355.5	343.9	11.58	30.688		
3,400.0	3,373.9	3,398.6	3,394.0	9.0	6.6	-179.14	0.1	13.0	364.9	352.9	11.94	30.556		
3,500.0	3,472.9	3,498.1	3,493.4	9.3	6.8	-178.81	0.1	18.8	374.3	362.0	12.30	30.432		
3,600.0	3,571.8	3,597.7	3,592.7	9.6	7.0	-178.49	0.1	24.5	383.7	371.0	12.66	30.314		
3,700.0	3,670.7	3,697.2	3,692.1	9.9	7.2	-178.18	0.1	30.2	393.1	380.1	13.01	30.203		
3,800.0	3,769.7	3,796.7	3,791.5	10.2	7.4	-177.89	0.0	35.9	402.5	389.1	13.37	30.098		
3,900.0	3,868.6	3,896.3	3,890.9	10.5	7.6	-177.62	0.0	41.7	411.9	398.2	13.73	29.999		
4,000.0	3,967.5	3,995.8	3,990.2	10.8	7.8	-177.35	0.0	47.4	421.4	407.3	14.09	29.904		
4,100.0	4,066.5	4,095.4	4,089.6	11.1	8.0	-177.10	0.0	53.1	430.8	416.4	14.45	29.814		
4,200.0	4,165.4	4,194.9	4,189.0	11.4	8.2	-176.86	0.0	58.8	440.3	425.5	14.81	29.728		
4,300.0	4,264.3	4,294.4	4,288.3	11.7	8.4	-176.63	0.0	64.6	449.7	434.6	15.17	29.646		
4,400.0	4,363.3	4,394.0	4,387.7	12.1	8.6	-176.41	-0.1	70.3	459.2	443.7	15.53	29.568		
4,500.0	4,462.2	4,493.5	4,487.1	12.4	8.8	-176.19	-0.1	76.0	468.7	452.8	15.89	29.493		
4,600.0	4,561.1	4,593.0	4,586.4	12.7	9.0	-175.99	-0.1	81.7	478.2	461.9	16.25	29.422		
4,700.0	4,660.1	4,692.6	4,685.8	13.0	9.2	-175.79	-0.1	87.5	487.7	471.0	16.61	29.353		
4,800.0	4,759.0	4,792.1	4,785.2	13.3	9.4	-175.60	-0.1	93.2	497.1	480.2	16.97	29.288		
4,900.0	4,857.9	4,891.6	4,884.6	13.6	9.6	-175.42	-0.2	98.9	506.6	489.3	17.34	29.224		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,956.9	4,991.2	4,983.9	13.9	9.8	-175.25	-0.2	104.7	516.2	498.5	17.70	29.164		
5,100.0	5,055.8	5,090.7	5,083.3	14.2	10.0	-175.08	-0.2	110.4	525.7	507.6	18.06	29.105		
5,200.0	5,154.7	5,190.2	5,182.7	14.5	10.2	-174.92	-0.2	116.1	535.2	516.8	18.42	29.049		
5,300.0	5,253.7	5,289.8	5,282.0	14.8	10.4	-174.76	-0.2	121.8	544.7	525.9	18.79	28.995		
5,400.0	5,352.6	5,389.3	5,381.4	15.1	10.6	-174.61	-0.2	127.6	554.2	535.1	19.15	28.943		
5,500.0	5,451.5	5,488.8	5,480.8	15.5	10.8	-174.46	-0.3	133.3	563.7	544.2	19.51	28.893		
5,600.0	5,550.5	5,588.4	5,580.2	15.8	11.0	-174.32	-0.3	139.0	573.3	553.4	19.87	28.845		
5,700.0	5,649.4	5,687.9	5,679.5	16.1	11.2	-174.18	-0.3	144.7	582.8	562.6	20.24	28.798		
5,800.0	5,748.3	5,787.4	5,778.9	16.4	11.4	-174.05	-0.3	150.5	592.3	571.7	20.60	28.753		
5,900.0	5,847.3	5,887.0	5,878.3	16.7	11.6	-173.92	-0.3	156.2	601.9	580.9	20.96	28.709		
6,000.0	5,946.2	5,986.5	5,977.6	17.0	11.8	-173.79	-0.4	161.9	611.4	590.1	21.33	28.666		
6,100.0	6,045.1	6,086.1	6,077.0	17.3	12.0	-173.67	-0.4	167.6	621.0	599.3	21.69	28.625		
6,200.0	6,144.1	6,185.6	6,176.4	17.6	12.2	-173.56	-0.4	173.4	630.5	608.4	22.06	28.586		
6,300.0	6,243.0	6,285.1	6,275.7	17.9	12.4	-173.44	-0.4	179.1	640.1	617.6	22.42	28.547		
6,400.0	6,341.9	6,384.7	6,375.1	18.2	12.6	-173.33	-0.4	184.8	649.6	626.8	22.79	28.510		
6,500.0	6,440.9	6,484.2	6,474.5	18.5	12.8	-173.23	-0.4	190.5	659.2	636.0	23.15	28.474		
6,600.0	6,539.8	6,583.7	6,573.9	18.9	13.0	-173.12	-0.5	196.3	668.7	645.2	23.51	28.439		
6,700.0	6,638.7	6,683.3	6,673.2	19.2	13.2	-173.02	-0.5	202.0	678.3	654.4	23.88	28.405		
6,800.0	6,737.7	6,782.8	6,772.6	19.5	13.4	-172.92	-0.5	207.7	687.8	663.6	24.24	28.372		
6,810.4	6,748.0	6,793.2	6,782.9	19.5	13.4	-172.91	-0.5	208.3	688.8	664.5	24.28	28.368		
6,850.0	6,787.2	6,832.6	6,822.3	19.6	13.5	-150.67	-0.5	210.6	692.1	667.6	24.43	28.332		
6,900.0	6,836.7	6,882.4	6,872.1	19.7	13.6	-122.98	-0.5	213.4	694.5	669.9	24.60	28.230		
6,950.0	6,886.0	6,932.0	6,921.6	19.8	13.7	-104.31	-0.5	216.3	695.2	670.5	24.77	28.068		
7,000.0	6,934.8	6,981.1	6,970.6	19.9	13.8	-93.66	-0.5	219.1	694.2	669.3	24.93	27.851		
7,050.0	6,982.9	7,048.2	7,037.6	20.0	13.9	-88.24	-1.7	223.0	691.4	666.3	25.10	27.541		
7,100.0	7,030.1	7,130.3	7,118.9	20.0	14.1	-86.80	-11.0	227.7	685.0	659.8	25.20	27.180		
7,150.0	7,076.1	7,200.3	7,187.0	20.1	14.2	-87.52	-26.3	231.6	676.0	650.8	25.23	26.798		
7,200.0	7,120.8	7,257.5	7,241.5	20.1	14.4	-89.33	-43.7	234.7	665.6	640.4	25.25	26.360		
7,250.0	7,163.8	7,302.8	7,283.5	20.1	14.5	-91.48	-60.6	237.1	655.3	629.9	25.32	25.875		
7,300.0	7,205.0	7,337.7	7,315.0	20.2	14.6	-93.49	-75.3	239.0	646.1	620.6	25.46	25.376		
7,350.0	7,244.1	7,363.7	7,338.1	20.2	14.7	-95.10	-87.3	240.3	639.0	613.3	25.64	24.917		
7,400.0	7,281.1	7,382.4	7,354.4	20.2	14.7	-96.17	-96.4	241.2	634.7	608.8	25.86	24.545		
7,439.8	7,308.8	7,392.9	7,363.4	20.3	14.7	-96.60	-101.7	241.8	633.6	607.6	26.03	24.337		
7,450.0	7,315.7	7,395.0	7,365.2	20.3	14.7	-96.65	-102.8	241.9	633.7	607.6	26.07	24.302		
7,500.0	7,347.7	7,402.7	7,371.8	20.3	14.8	-96.55	-106.8	242.2	636.2	609.9	26.28	24.209 SF		
7,550.0	7,377.0	7,406.3	7,374.8	20.4	14.8	-95.90	-108.7	242.4	642.4	615.9	26.46	24.276		
7,600.0	7,403.4	7,406.5	7,375.0	20.5	14.8	-94.73	-108.8	242.4	652.1	625.5	26.61	24.506		
7,650.0	7,426.8	7,400.0	7,369.5	20.6	14.8	-92.74	-105.4	242.1	665.3	638.6	26.69	24.930		
7,700.0	7,447.2	7,400.0	7,369.5	20.8	14.8	-91.12	-105.4	242.1	681.5	654.6	26.84	25.390		
7,750.0	7,464.3	7,391.9	7,362.6	20.9	14.7	-88.58	-101.2	241.7	700.4	673.5	26.91	26.031		
7,800.0	7,478.2	7,383.3	7,355.1	21.2	14.7	-85.83	-96.9	241.3	721.7	694.7	26.97	26.754		
7,850.0	7,488.7	7,373.2	7,346.4	21.4	14.7	-82.84	-91.9	240.8	744.9	717.9	27.04	27.550		
7,900.0	7,495.8	7,361.8	7,336.4	21.6	14.6	-79.67	-86.4	240.2	769.7	742.6	27.10	28.398		
7,950.0	7,499.5	7,350.0	7,326.0	21.9	14.6	-76.44	-80.9	239.6	795.7	768.5	27.18	29.273		
7,978.1	7,500.0	7,350.0	7,326.0	22.1	14.6	-75.12	-80.9	239.6	810.7	783.4	27.32	29.671		
8,000.0	7,500.0	7,336.3	7,313.8	22.2	14.6	-74.14	-74.7	238.9	822.6	795.3	27.25	30.183		
8,100.0	7,500.0	7,312.1	7,292.0	23.0	14.5	-72.44	-64.3	237.6	881.3	853.8	27.44	32.118		
8,200.0	7,500.0	7,300.0	7,280.9	23.8	14.5	-71.59	-59.4	237.0	946.0	918.2	27.75	34.093		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	1.0	1.0	0.0	0.0	-89.68	0.8	-140.2	140.2					
100.0	100.0	101.0	101.0	0.1	0.2	-89.68	0.8	-140.2	140.2	139.9	0.30	469.676		
200.0	200.0	201.0	201.0	0.3	0.3	-89.68	0.8	-140.2	140.2	139.5	0.65	216.482		
300.0	300.0	301.0	301.0	0.5	0.5	-89.68	0.8	-140.2	140.2	139.2	1.00	140.656		
400.0	400.0	401.0	401.0	0.7	0.7	-89.68	0.8	-140.2	140.2	138.8	1.35	104.166		
500.0	500.0	503.5	503.5	0.8	0.9	156.37	0.8	-139.2	140.1	138.4	1.70	82.435		
600.0	600.0	606.0	606.0	1.0	1.0	156.82	0.8	-136.5	139.8	137.7	2.05	68.093		
700.0	699.9	708.5	708.4	1.2	1.2	157.57	0.8	-131.9	139.3	136.9	2.41	57.884		
800.0	799.7	811.0	810.6	1.4	1.4	158.63	0.8	-125.4	138.7	135.9	2.76	50.229		
900.0	899.4	912.8	912.1	1.6	1.6	160.00	0.8	-117.3	138.0	134.9	3.12	44.296		
919.6	918.8	932.4	931.6	1.7	1.7	160.30	0.7	-115.6	138.0	134.8	3.19	43.321	CC, ES	
1,000.0	998.9	1,012.7	1,011.7	1.8	1.8	161.60	0.7	-108.7	138.6	135.1	3.47	39.928		
1,100.0	1,098.3	1,112.6	1,111.2	2.1	2.1	163.39	0.7	-100.2	140.9	137.0	3.83	36.828		
1,200.0	1,197.4	1,212.4	1,210.6	2.3	2.3	165.28	0.7	-91.7	145.0	140.8	4.18	34.687		
1,237.8	1,234.9	1,250.1	1,248.2	2.4	2.4	166.02	0.7	-88.4	147.1	142.7	4.31	34.081		
1,300.0	1,296.4	1,312.1	1,310.0	2.6	2.5	167.20	0.7	-83.1	150.7	146.1	4.54	33.219		
1,400.0	1,395.3	1,411.8	1,409.3	2.9	2.7	168.99	0.7	-74.6	156.6	151.7	4.89	32.024		
1,500.0	1,494.2	1,511.5	1,508.7	3.2	2.9	170.65	0.7	-66.1	162.7	157.4	5.25	31.015		
1,600.0	1,593.2	1,611.3	1,608.0	3.5	3.2	172.18	0.6	-57.6	168.9	163.3	5.60	30.153		
1,700.0	1,692.1	1,711.0	1,707.4	3.8	3.4	173.61	0.6	-49.1	175.2	169.2	5.96	29.407		
1,800.0	1,791.0	1,810.7	1,806.7	4.1	3.6	174.94	0.6	-40.5	181.6	175.3	6.32	28.756		
1,900.0	1,890.0	1,910.4	1,906.1	4.4	3.8	176.17	0.6	-32.0	188.1	181.4	6.68	28.180		
2,000.0	1,988.9	2,010.1	2,005.4	4.7	4.1	177.33	0.6	-23.5	194.7	187.7	7.04	27.668		
2,100.0	2,087.8	2,109.8	2,104.7	5.0	4.3	178.41	0.6	-15.0	201.4	194.0	7.40	27.209		
2,200.0	2,186.7	2,209.5	2,204.1	5.3	4.5	179.41	0.6	-6.4	208.1	200.3	7.77	26.795		
2,300.0	2,285.7	2,309.2	2,303.4	5.6	4.8	-179.64	0.5	2.1	214.9	206.8	8.13	26.418		
2,400.0	2,384.6	2,408.9	2,402.8	5.9	5.0	-178.75	0.5	10.6	221.7	213.2	8.50	26.074		
2,500.0	2,483.5	2,508.6	2,502.1	6.2	5.2	-177.92	0.5	19.1	228.6	219.8	8.88	25.758		
2,600.0	2,582.5	2,608.3	2,601.5	6.5	5.4	-177.14	0.5	27.7	235.6	226.3	9.25	25.468		
2,700.0	2,681.4	2,708.1	2,700.8	6.8	5.7	-176.40	0.5	36.2	242.5	232.9	9.63	25.199		
2,800.0	2,780.3	2,807.8	2,800.1	7.1	5.9	-175.70	0.5	44.7	249.6	239.6	10.00	24.949		
2,900.0	2,879.3	2,907.5	2,899.5	7.4	6.1	-175.04	0.4	53.2	256.6	246.2	10.38	24.717		
3,000.0	2,978.2	3,007.2	2,998.8	7.7	6.3	-174.41	0.4	61.7	263.7	252.9	10.76	24.500		
3,100.0	3,077.1	3,106.9	3,098.2	8.0	6.6	-173.82	0.4	70.3	270.8	259.7	11.15	24.297		
3,200.0	3,176.1	3,206.6	3,197.5	8.3	6.8	-173.26	0.4	78.8	278.0	266.4	11.53	24.106		
3,300.0	3,275.0	3,306.3	3,296.9	8.7	7.0	-172.73	0.4	87.3	285.1	273.2	11.92	23.927		
3,400.0	3,373.9	3,406.0	3,396.2	9.0	7.3	-172.22	0.4	95.8	292.3	280.0	12.30	23.758		
3,500.0	3,472.9	3,505.7	3,495.5	9.3	7.5	-171.74	0.4	104.4	299.5	286.8	12.69	23.599		
3,600.0	3,571.8	3,605.4	3,594.9	9.6	7.7	-171.28	0.3	112.9	306.8	293.7	13.08	23.449		
3,700.0	3,670.7	3,705.1	3,694.2	9.9	7.9	-170.84	0.3	121.4	314.0	300.5	13.47	23.306		
3,800.0	3,769.7	3,804.8	3,793.6	10.2	8.2	-170.42	0.3	129.9	321.3	307.4	13.87	23.171		
3,900.0	3,868.6	3,904.6	3,892.9	10.5	8.4	-170.02	0.3	138.5	328.6	314.3	14.26	23.042		
4,000.0	3,967.5	4,004.3	3,992.3	10.8	8.6	-169.63	0.3	147.0	335.9	321.2	14.65	22.920		
4,100.0	4,066.5	4,104.0	4,091.6	11.1	8.9	-169.27	0.3	155.5	343.2	328.1	15.05	22.804		
4,200.0	4,165.4	4,203.7	4,191.0	11.4	9.1	-168.92	0.2	164.0	350.5	335.1	15.45	22.693		
4,300.0	4,264.3	4,303.4	4,290.3	11.7	9.3	-168.58	0.2	172.6	357.9	342.0	15.84	22.587		
4,400.0	4,363.3	4,403.1	4,389.6	12.1	9.5	-168.25	0.2	181.1	365.2	349.0	16.24	22.486		
4,500.0	4,462.2	4,502.8	4,489.0	12.4	9.8	-167.94	0.2	189.6	372.6	355.9	16.64	22.390		
4,600.0	4,561.1	4,602.5	4,588.3	12.7	10.0	-167.65	0.2	198.1	379.9	362.9	17.04	22.297		
4,700.0	4,660.1	4,702.2	4,687.7	13.0	10.2	-167.36	0.2	206.6	387.3	369.9	17.44	22.209		
4,800.0	4,759.0	4,801.9	4,787.0	13.3	10.5	-167.08	0.2	215.2	394.7	376.9	17.84	22.124		
4,900.0	4,857.9	4,901.6	4,886.4	13.6	10.7	-166.81	0.1	223.7	402.1	383.9	18.24	22.042		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference													Warning		
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			
5,000.0	4,956.9	5,001.3	4,985.7	13.9	10.9	-166.56	0.1	232.2	409.5	390.9	18.65	21.964			
5,100.0	5,055.8	5,101.1	5,085.0	14.2	11.1	-166.31	0.1	240.7	417.0	397.9	19.05	21.889			
5,200.0	5,154.7	5,200.8	5,184.4	14.5	11.4	-166.07	0.1	249.3	424.4	404.9	19.45	21.817			
5,300.0	5,253.7	5,300.5	5,283.7	14.8	11.6	-165.84	0.1	257.8	431.8	412.0	19.86	21.747			
5,400.0	5,352.6	5,400.2	5,383.1	15.1	11.8	-165.62	0.1	266.3	439.3	419.0	20.26	21.680			
5,500.0	5,451.5	5,499.9	5,482.4	15.5	12.1	-165.40	0.1	274.8	446.7	426.0	20.67	21.615			
5,600.0	5,550.5	5,599.6	5,581.8	15.8	12.3	-165.19	0.0	283.4	454.2	433.1	21.07	21.553			
5,700.0	5,649.4	5,699.3	5,681.1	16.1	12.5	-164.99	0.0	291.9	461.6	440.1	21.48	21.493			
5,800.0	5,748.3	5,799.0	5,780.4	16.4	12.8	-164.80	0.0	300.4	469.1	447.2	21.88	21.435			
5,900.0	5,847.3	5,898.7	5,879.8	16.7	13.0	-164.61	0.0	308.9	476.6	454.3	22.29	21.379			
6,000.0	5,946.2	5,998.4	5,979.1	17.0	13.2	-164.42	0.0	317.4	484.0	461.3	22.70	21.324			
6,100.0	6,045.1	6,098.1	6,078.5	17.3	13.4	-164.25	0.0	326.0	491.5	468.4	23.11	21.272			
6,200.0	6,144.1	6,197.8	6,177.8	17.6	13.7	-164.07	-0.1	334.5	499.0	475.5	23.51	21.221			
6,300.0	6,243.0	6,297.6	6,277.2	17.9	13.9	-163.91	-0.1	343.0	506.5	482.6	23.92	21.172			
6,400.0	6,341.9	6,397.3	6,376.5	18.2	14.1	-163.74	-0.1	351.5	514.0	489.6	24.33	21.124			
6,500.0	6,440.9	6,497.0	6,475.9	18.5	14.4	-163.59	-0.1	360.1	521.5	496.7	24.74	21.078			
6,600.0	6,539.8	6,596.7	6,575.2	18.9	14.6	-163.43	-0.1	368.6	529.0	503.8	25.15	21.033			
6,700.0	6,638.7	6,696.4	6,674.5	19.2	14.8	-163.28	-0.1	377.1	536.5	510.9	25.56	20.990			
6,800.0	6,737.7	6,852.9	6,830.0	19.5	15.2	-163.80	-9.4	390.4	540.9	515.0	25.85	20.920			
6,810.4	6,748.0	6,873.1	6,849.8	19.5	15.2	-164.06	-13.0	392.2	540.5	514.7	25.82	20.929			
6,850.0	6,787.2	6,947.9	6,922.1	19.6	15.4	-143.77	-30.8	398.4	536.7	511.1	25.59	20.972			
6,900.0	6,836.7	7,034.3	7,002.8	19.7	15.6	-119.75	-60.8	405.3	526.8	501.7	25.12	20.968			
6,950.0	6,886.0	7,108.5	7,068.8	19.8	15.9	-105.68	-94.1	410.9	512.7	488.1	24.66	20.792			
7,000.0	6,934.8	7,169.4	7,120.2	19.9	16.1	-99.97	-126.5	415.3	496.2	471.9	24.37	20.363			
7,050.0	6,982.9	7,217.8	7,158.9	20.0	16.3	-98.68	-155.3	418.7	479.1	454.7	24.34	19.686			
7,100.0	7,030.1	7,255.0	7,187.4	20.0	16.4	-99.30	-179.2	421.1	462.9	438.4	24.57	18.843			
7,150.0	7,076.1	7,282.9	7,207.9	20.1	16.5	-100.42	-198.0	422.9	449.3	424.3	25.02	17.957			
7,200.0	7,120.8	7,303.0	7,222.1	20.1	16.6	-101.35	-212.1	424.1	439.4	413.8	25.60	17.160			
7,250.0	7,163.8	7,316.7	7,231.7	20.1	16.7	-101.75	-221.9	424.9	434.2	407.9	26.24	16.547			
7,274.4	7,184.1	7,321.4	7,234.9	20.2	16.7	-101.70	-225.3	425.2	433.5	407.0	26.53	16.337			
7,300.0	7,205.0	7,325.2	7,237.5	20.2	16.8	-101.47	-228.1	425.4	434.2	407.4	26.82	16.189			
7,350.0	7,244.1	7,329.3	7,240.3	20.2	16.8	-100.49	-231.1	425.6	439.8	412.5	27.30	16.110 SF			
7,400.0	7,281.1	7,330.0	7,240.7	20.2	16.8	-98.80	-231.6	425.7	450.8	423.2	27.64	16.308			
7,450.0	7,315.7	7,327.7	7,239.2	20.3	16.8	-96.44	-229.9	425.6	466.8	439.0	27.86	16.758			
7,500.0	7,347.7	7,323.0	7,236.0	20.3	16.7	-93.46	-226.5	425.3	487.2	459.2	27.96	17.424			
7,550.0	7,377.0	7,316.2	7,231.3	20.4	16.7	-89.94	-221.5	424.9	511.2	483.3	27.99	18.265			
7,600.0	7,403.4	7,307.7	7,225.4	20.5	16.7	-85.97	-215.4	424.4	538.3	510.3	27.98	19.240			
7,650.0	7,426.8	7,300.0	7,220.1	20.6	16.6	-81.93	-210.0	423.9	567.6	539.6	28.02	20.256			
7,700.0	7,447.2	7,286.3	7,210.3	20.8	16.6	-77.13	-200.4	423.1	598.6	570.6	27.92	21.436			
7,750.0	7,464.3	7,274.0	7,201.4	20.9	16.5	-72.55	-191.9	422.3	630.7	602.8	27.91	22.596			
7,800.0	7,478.2	7,260.6	7,191.6	21.2	16.4	-68.03	-182.9	421.5	663.6	635.7	27.93	23.763			
7,850.0	7,488.7	7,250.0	7,183.6	21.4	16.4	-63.97	-175.9	420.8	696.9	668.8	28.06	24.835			
7,900.0	7,495.8	7,231.6	7,169.6	21.6	16.3	-59.60	-164.0	419.6	730.1	702.1	28.03	26.047			
7,950.0	7,499.5	7,216.1	7,157.6	21.9	16.2	-55.84	-154.2	418.6	763.1	734.9	28.12	27.138			
7,978.1	7,500.0	7,200.0	7,144.9	22.1	16.2	-53.47	-144.4	417.5	781.4	753.4	28.00	27.903			
8,000.0	7,500.0	7,200.0	7,144.9	22.2	16.2	-53.47	-144.4	417.5	795.7	767.5	28.22	28.193			
8,100.0	7,500.0	7,170.5	7,121.1	23.0	16.1	-51.80	-127.1	415.4	863.9	835.4	28.48	30.332			
8,200.0	7,500.0	7,150.0	7,104.1	23.8	16.0	-50.66	-115.7	414.0	936.2	907.3	28.87	32.426			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft					
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft				
Reference													Semi Major Axis		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)									
0.0	0.0	1.0	1.0	0.0	0.0	-89.65	0.8	-130.1	130.1										
100.0	100.0	101.0	101.0	0.1	0.2	-89.65	0.8	-130.1	130.1	129.8	0.30	435.928							
116.3	116.3	117.3	117.3	0.2	0.2	-89.65	0.8	-130.1	130.1	129.7	0.36	366.020	CC						
200.0	200.0	201.0	201.0	0.3	0.3	-89.65	0.8	-130.1	130.1	129.5	0.65	200.924							
300.0	300.0	301.0	301.0	0.5	0.5	-89.26	1.7	-130.1	130.1	129.1	1.00	130.435							
400.0	400.0	400.9	400.8	0.7	0.7	-88.10	4.3	-130.1	130.2	128.8	1.35	96.299	ES						
500.0	500.0	500.7	500.5	0.8	0.9	159.84	8.7	-130.1	131.2	129.5	1.71	76.563							
600.0	600.0	600.2	599.8	1.0	1.1	162.81	14.8	-130.1	134.3	132.2	2.09	64.354							
700.0	699.9	702.0	701.4	1.2	1.3	166.09	21.4	-129.3	138.7	136.2	2.46	56.309							
800.0	799.7	803.9	803.2	1.4	1.5	169.04	27.0	-127.1	143.6	140.8	2.84	50.603							
900.0	899.4	906.0	905.1	1.6	1.7	171.68	31.6	-123.3	148.9	145.7	3.21	46.378							
1,000.0	998.9	1,008.3	1,007.2	1.8	1.9	174.03	35.2	-118.0	154.5	150.9	3.58	43.139							
1,100.0	1,098.3	1,110.7	1,109.3	2.1	2.1	176.11	37.8	-111.1	160.3	156.3	3.95	40.578							
1,200.0	1,197.4	1,213.2	1,211.5	2.3	2.3	177.94	39.4	-102.7	166.3	162.0	4.32	38.501							
1,237.8	1,234.9	1,252.0	1,250.2	2.4	2.3	178.57	39.8	-99.2	168.6	164.1	4.46	37.814							
1,300.0	1,296.4	1,315.9	1,313.7	2.6	2.5	179.53	40.0	-92.8	172.1	167.4	4.69	36.705							
1,400.0	1,395.3	1,418.7	1,415.8	2.9	2.7	-179.07	39.6	-81.4	176.3	171.3	5.06	34.862							
1,500.0	1,494.2	1,518.5	1,515.0	3.2	2.9	-177.80	38.7	-69.6	179.9	174.5	5.43	33.128							
1,600.0	1,593.2	1,618.4	1,614.1	3.5	3.2	-176.59	37.8	-57.8	183.5	177.7	5.81	31.610							
1,700.0	1,692.1	1,718.3	1,713.3	3.8	3.4	-175.43	36.9	-46.0	187.2	181.1	6.19	30.269							
1,800.0	1,791.0	1,818.1	1,812.5	4.1	3.7	-174.31	36.0	-34.2	191.0	184.5	6.57	29.076							
1,900.0	1,890.0	1,918.0	1,911.6	4.4	3.9	-173.23	35.2	-22.4	194.9	187.9	6.96	28.007							
2,000.0	1,988.9	2,017.8	2,010.8	4.7	4.2	-172.20	34.3	-10.6	198.8	191.5	7.35	27.044							
2,100.0	2,087.8	2,117.7	2,109.9	5.0	4.4	-171.21	33.4	1.2	202.8	195.1	7.75	26.171							
2,200.0	2,186.7	2,217.6	2,209.1	5.3	4.7	-170.26	32.5	13.0	206.9	198.7	8.15	25.377							
2,300.0	2,285.7	2,317.4	2,308.2	5.6	4.9	-169.34	31.6	24.8	211.0	202.4	8.56	24.650							
2,400.0	2,384.6	2,417.3	2,407.4	5.9	5.2	-168.46	30.8	36.6	215.1	206.2	8.97	23.984							
2,500.0	2,483.5	2,517.1	2,506.6	6.2	5.5	-167.61	29.9	48.4	219.3	210.0	9.39	23.370							
2,600.0	2,582.5	2,617.0	2,605.7	6.5	5.7	-166.79	29.0	60.2	223.6	213.8	9.81	22.803							
2,700.0	2,681.4	2,716.9	2,704.9	6.8	6.0	-166.01	28.1	72.0	227.9	217.7	10.23	22.278							
2,800.0	2,780.3	2,816.7	2,804.0	7.1	6.2	-165.25	27.2	83.8	232.2	221.6	10.66	21.790							
2,900.0	2,879.3	2,916.6	2,903.2	7.4	6.5	-164.52	26.4	95.5	236.6	225.5	11.09	21.335							
3,000.0	2,978.2	3,016.4	3,002.3	7.7	6.8	-163.82	25.5	107.3	241.0	229.5	11.53	20.911							
3,100.0	3,077.1	3,116.3	3,101.5	8.0	7.0	-163.14	24.6	119.1	245.5	233.5	11.97	20.515							
3,200.0	3,176.1	3,216.2	3,200.7	8.3	7.3	-162.49	23.7	130.9	250.0	237.5	12.41	20.144							
3,300.0	3,275.0	3,316.0	3,299.8	8.7	7.6	-161.86	22.9	142.7	254.5	241.6	12.85	19.795							
3,400.0	3,373.9	3,415.9	3,399.0	9.0	7.8	-161.25	22.0	154.5	259.0	245.7	13.30	19.468							
3,500.0	3,472.9	3,515.7	3,498.1	9.3	8.1	-160.67	21.1	166.3	263.6	249.8	13.76	19.159							
3,600.0	3,571.8	3,615.6	3,597.3	9.6	8.4	-160.10	20.2	178.1	268.2	254.0	14.21	18.869							
3,700.0	3,670.7	3,715.5	3,696.4	9.9	8.6	-159.55	19.3	189.9	272.8	258.1	14.67	18.594							
3,800.0	3,769.7	3,815.3	3,795.6	10.2	8.9	-159.02	18.5	201.7	277.4	262.3	15.13	18.335							
3,900.0	3,868.6	3,915.2	3,894.8	10.5	9.2	-158.51	17.6	213.5	282.1	266.5	15.60	18.089							
4,000.0	3,967.5	4,015.0	3,993.9	10.8	9.4	-158.02	16.7	225.3	286.8	270.7	16.06	17.856							
4,100.0	4,066.5	4,114.9	4,093.1	11.1	9.7	-157.54	15.8	237.1	291.5	275.0	16.53	17.635							
4,200.0	4,165.4	4,214.8	4,192.2	11.4	10.0	-157.07	14.9	248.9	296.2	279.2	17.00	17.425							
4,300.0	4,264.3	4,314.6	4,291.4	11.7	10.2	-156.62	14.1	260.7	301.0	283.5	17.47	17.226							
4,400.0	4,363.3	4,414.5	4,390.5	12.1	10.5	-156.19	13.2	272.5	305.8	287.8	17.95	17.036							
4,500.0	4,462.2	4,514.3	4,489.7	12.4	10.8	-155.77	12.3	284.3	310.5	292.1	18.42	16.855							
4,600.0	4,561.1	4,614.2	4,588.8	12.7	11.0	-155.36	11.4	296.1	315.3	296.4	18.90	16.682							
4,700.0	4,660.1	4,714.1	4,688.0	13.0	11.3	-154.96	10.6	307.9	320.2	300.8	19.38	16.518							
4,800.0	4,759.0	4,813.9	4,787.2	13.3	11.6	-154.58	9.7	319.7	325.0	305.1	19.86	16.360							
4,900.0	4,857.9	4,913.8	4,886.3	13.6	11.9	-154.20	8.8	331.5	329.8	309.5	20.35	16.210							

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4F-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft	
Survey Program: O-Geolink MWD															
Reference				Offset				Semi Major Axis			Distance		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	4,956.9	5,013.6	4,985.5	13.9	12.1	-153.84	7.9	343.3	334.7	313.9	20.83	16.066			
5,100.0	5,055.8	5,113.5	5,084.6	14.2	12.4	-153.49	7.0	355.0	339.6	318.3	21.32	15.928			
5,200.0	5,154.7	5,213.4	5,183.8	14.5	12.7	-153.14	6.2	366.8	344.5	322.7	21.81	15.796			
5,300.0	5,253.7	5,313.2	5,282.9	14.8	12.9	-152.81	5.3	378.6	349.4	327.1	22.30	15.669			
5,400.0	5,352.6	5,413.1	5,382.1	15.1	13.2	-152.49	4.4	390.4	354.3	331.5	22.79	15.548			
5,500.0	5,451.5	5,512.9	5,481.3	15.5	13.5	-152.17	3.5	402.2	359.2	335.9	23.28	15.431			
5,600.0	5,550.5	5,612.8	5,580.4	15.8	13.7	-151.87	2.6	414.0	364.1	340.3	23.77	15.319			
5,700.0	5,649.4	5,712.7	5,679.6	16.1	14.0	-151.57	1.8	425.8	369.1	344.8	24.26	15.211			
5,800.0	5,748.3	5,812.5	5,778.7	16.4	14.3	-151.28	0.9	437.6	374.0	349.2	24.76	15.107			
5,900.0	5,847.3	5,912.4	5,877.9	16.7	14.5	-151.00	0.0	449.4	379.0	353.7	25.25	15.007			
6,000.0	5,946.2	6,012.2	5,977.0	17.0	14.8	-150.72	-0.9	461.2	383.9	358.2	25.75	14.911			
6,100.0	6,045.1	6,112.1	6,076.2	17.3	15.1	-150.45	-1.8	473.0	388.9	362.7	26.25	14.818			
6,200.0	6,144.1	6,211.9	6,175.4	17.6	15.4	-150.19	-2.6	484.8	393.9	367.1	26.74	14.728			
6,300.0	6,243.0	6,311.8	6,274.5	17.9	15.6	-149.94	-3.5	496.6	398.9	371.6	27.24	14.642			
6,400.0	6,341.9	6,411.7	6,373.7	18.2	15.9	-149.69	-4.4	508.4	403.9	376.1	27.74	14.558			
6,500.0	6,440.9	6,511.5	6,472.8	18.5	16.2	-149.44	-5.3	520.2	408.9	380.6	28.24	14.478			
6,600.0	6,539.8	6,611.4	6,572.0	18.9	16.4	-149.21	-6.1	532.0	413.9	385.2	28.74	14.400			
6,700.0	6,638.7	6,711.2	6,671.1	19.2	16.7	-148.98	-7.0	543.8	418.9	389.7	29.25	14.324			
6,800.0	6,737.7	6,811.1	6,770.3	19.5	17.0	-148.75	-7.9	555.6	424.0	394.2	29.75	14.252			
6,810.4	6,748.0	6,821.5	6,780.6	19.5	17.0	-148.73	-8.0	556.8	424.5	394.7	29.80	14.244			
6,850.0	6,787.2	6,861.1	6,819.9	19.6	17.1	-126.62	-8.3	561.5	425.6	395.6	29.99	14.189			
6,900.0	6,836.7	6,911.0	6,869.5	19.7	17.3	-99.11	-8.8	567.4	424.4	394.2	30.21	14.049			
6,950.0	6,886.0	6,960.7	6,918.8	19.8	17.4	-80.68	-9.2	573.2	420.4	390.0	30.38	13.837			
7,000.0	6,934.8	7,009.9	6,967.7	19.9	17.5	-70.34	-9.7	579.1	413.6	383.1	30.51	13.557			
7,050.0	6,982.9	7,064.4	7,021.8	20.0	17.7	-65.03	-10.3	585.5	404.2	373.6	30.59	13.211			
7,100.0	7,030.1	7,146.9	7,103.4	20.0	17.9	-64.43	-17.3	595.3	389.5	359.1	30.40	12.811			
7,150.0	7,076.1	7,217.9	7,172.5	20.1	18.1	-67.08	-30.8	603.8	369.3	339.5	29.78	12.402			
7,200.0	7,120.8	7,276.5	7,228.4	20.1	18.3	-72.14	-47.2	610.7	345.5	316.6	28.89	11.960			
7,250.0	7,163.8	7,323.3	7,271.9	20.1	18.4	-78.63	-63.5	616.1	320.2	292.3	27.89	11.482			
7,300.0	7,205.0	7,359.6	7,304.8	20.2	18.5	-85.42	-78.1	620.3	295.7	268.8	26.92	10.986			
7,350.0	7,244.1	7,386.9	7,329.1	20.2	18.6	-91.49	-90.2	623.4	274.3	248.1	26.14	10.491			
7,400.0	7,281.1	7,406.7	7,346.5	20.2	18.7	-96.15	-99.5	625.6	258.4	232.6	25.77	10.024			
7,450.0	7,315.7	7,420.4	7,358.2	20.3	18.7	-99.12	-106.3	627.1	250.3	224.3	26.00	9.626			
7,468.9	7,328.1	7,424.2	7,361.5	20.3	18.8	-99.80	-108.2	627.6	249.6	223.3	26.25	9.509			
7,500.0	7,347.7	7,428.9	7,365.5	20.3	18.8	-100.38	-110.6	628.1	251.4	224.6	26.80	9.383 SF			
7,550.0	7,377.0	7,433.3	7,369.3	20.4	18.8	-100.01	-112.8	628.6	262.2	234.3	27.91	9.393			
7,600.0	7,403.4	7,434.1	7,370.0	20.5	18.8	-98.13	-113.3	628.7	281.5	252.5	29.04	9.696			
7,650.0	7,426.8	7,432.1	7,368.3	20.6	18.8	-94.87	-112.2	628.4	307.8	277.8	29.99	10.265			
7,700.0	7,447.2	7,427.6	7,364.4	20.8	18.8	-90.37	-109.9	627.9	339.3	308.5	30.73	11.039			
7,750.0	7,464.3	7,421.1	7,358.9	20.9	18.7	-84.87	-106.6	627.2	374.3	343.0	31.31	11.956			
7,800.0	7,478.2	7,412.9	7,351.8	21.2	18.7	-78.66	-102.5	626.3	411.8	380.0	31.76	12.965			
7,850.0	7,488.7	7,400.0	7,340.6	21.4	18.7	-71.56	-96.3	624.9	450.8	418.8	32.02	14.076			
7,900.0	7,495.8	7,400.0	7,340.6	21.6	18.7	-66.85	-96.3	624.9	490.6	457.9	32.72	14.995			
7,950.0	7,499.5	7,379.9	7,323.0	21.9	18.6	-59.48	-87.0	622.6	530.6	497.9	32.75	16.203			
7,978.1	7,500.0	7,372.7	7,316.5	22.1	18.6	-56.28	-83.8	621.8	553.1	520.2	32.90	16.810			
8,000.0	7,500.0	7,367.0	7,311.5	22.2	18.6	-55.62	-81.3	621.1	570.7	537.7	33.02	17.286			
8,100.0	7,500.0	7,350.0	7,296.2	23.0	18.5	-53.71	-74.1	619.2	653.5	619.9	33.65	19.423			
8,200.0	7,500.0	7,322.7	7,271.3	23.8	18.4	-50.85	-63.3	616.1	739.3	705.4	33.89	21.816			
8,300.0	7,500.0	7,300.0	7,250.3	24.7	18.3	-48.64	-55.0	613.4	827.4	793.3	34.14	24.233			
8,400.0	7,500.0	7,300.0	7,250.3	25.7	18.3	-48.64	-55.0	613.4	917.4	882.7	34.72	26.427			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft	
Reference				Offset			Semi Major Axis			Distance			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	-89.77	0.5	-120.0	120.0						
100.0	100.0	101.0	101.0	0.1	0.2	-89.77	0.5	-120.0	120.0	119.7		0.30	402.174		
200.0	200.0	201.0	201.0	0.3	0.3	-89.77	0.5	-120.0	120.0	119.4		0.65	185.369		
300.0	300.0	301.0	301.0	0.5	0.5	-89.77	0.5	-120.0	120.0	119.0		1.00	120.441		
400.0	400.0	401.0	401.0	0.7	0.7	-89.77	0.5	-120.0	120.0	118.7		1.35	89.198		
500.0	500.0	501.0	501.0	0.8	0.8	156.29	0.5	-120.0	120.8	119.1		1.69	71.292		
600.0	600.0	603.2	603.2	1.0	1.0	156.80	0.5	-119.1	122.3	120.3		2.05	59.726		
700.0	699.9	705.3	705.3	1.2	1.2	157.65	0.5	-116.4	123.7	121.3		2.40	51.484		
800.0	799.7	807.5	807.4	1.4	1.4	158.83	0.6	-111.8	124.9	122.1		2.76	45.301		
900.0	899.4	909.7	909.3	1.6	1.6	160.34	0.7	-105.4	126.0	122.9		3.11	40.491		
1,000.0	998.9	1,011.8	1,011.2	1.8	1.8	162.17	0.8	-97.2	127.1	123.6		3.47	36.655		
1,100.0	1,098.3	1,114.0	1,112.8	2.1	2.0	164.31	1.0	-87.2	128.2	124.4		3.82	33.542		
1,200.0	1,197.4	1,216.1	1,214.2	2.3	2.3	166.75	1.2	-75.3	129.5	125.3		4.18	30.982		
1,237.8	1,234.9	1,254.7	1,252.5	2.4	2.4	167.75	1.3	-70.4	130.0	125.7		4.31	30.132		
1,300.0	1,296.4	1,318.1	1,315.4	2.6	2.5	169.45	1.4	-61.7	130.6	126.1		4.54	28.785		
1,400.0	1,395.3	1,420.2	1,416.2	2.9	2.8	172.34	1.7	-46.3	130.4	125.5		4.90	26.614		
1,500.0	1,494.2	1,520.7	1,515.4	3.2	3.1	175.40	1.9	-29.7	129.3	124.0		5.28	24.495		
1,600.0	1,593.2	1,620.5	1,613.8	3.5	3.5	178.50	2.2	-13.1	128.4	122.7		5.67	22.641		
1,700.0	1,692.1	1,720.2	1,712.1	3.8	3.8	-178.36	2.5	3.4	127.8	121.8		6.08	21.018		
1,785.0	1,776.2	1,805.0	1,795.7	4.0	4.0	-175.68	2.7	17.5	127.7	121.2		6.45	19.791		
1,800.0	1,791.0	1,820.0	1,810.5	4.1	4.1	-175.21	2.7	20.0	127.7	121.2		6.52	19.587		
1,900.0	1,890.0	1,919.7	1,908.8	4.4	4.4	-172.06	3.0	36.6	128.0	121.0		6.99	18.317		
2,000.0	1,988.9	2,019.5	2,007.2	4.7	4.7	-168.93	3.3	53.2	128.6	121.1		7.48	17.187		
2,100.0	2,087.8	2,119.2	2,105.6	5.0	5.1	-165.84	3.5	69.7	129.6	121.6		8.01	16.182		
2,200.0	2,186.7	2,219.0	2,203.9	5.3	5.4	-162.81	3.8	86.3	131.0	122.4		8.57	15.289		
2,300.0	2,285.7	2,318.7	2,302.3	5.6	5.7	-159.85	4.1	102.9	132.8	123.6		9.16	14.497		
2,400.0	2,384.6	2,418.5	2,400.7	5.9	6.1	-156.97	4.3	119.5	134.9	125.1		9.77	13.798		
2,500.0	2,483.5	2,518.2	2,499.0	6.2	6.4	-154.19	4.6	136.1	137.3	126.9		10.41	13.184		
2,600.0	2,582.5	2,618.0	2,597.4	6.5	6.7	-151.51	4.9	152.6	140.0	129.0		11.07	12.644		
2,700.0	2,681.4	2,717.7	2,695.8	6.8	7.1	-148.94	5.1	169.2	143.1	131.3		11.75	12.173		
2,800.0	2,780.3	2,817.5	2,794.1	7.1	7.4	-146.48	5.4	185.8	146.4	133.9		12.44	11.762		
2,900.0	2,879.3	2,917.2	2,892.5	7.4	7.7	-144.13	5.7	202.4	150.0	136.8		13.15	11.405		
3,000.0	2,978.2	3,017.0	2,990.9	7.7	8.1	-141.89	5.9	218.9	153.8	139.9		13.86	11.095		
3,100.0	3,077.1	3,116.7	3,089.2	8.0	8.4	-139.77	6.2	235.5	157.8	143.2		14.58	10.826		
3,200.0	3,176.1	3,216.5	3,187.6	8.3	8.7	-137.75	6.5	252.1	162.0	146.7		15.30	10.594		
3,300.0	3,275.0	3,316.2	3,285.9	8.7	9.1	-135.84	6.7	268.7	166.5	150.5		16.02	10.393		
3,400.0	3,373.9	3,416.0	3,384.3	9.0	9.4	-134.03	7.0	285.2	171.1	154.3		16.74	10.220		
3,500.0	3,472.9	3,515.7	3,482.7	9.3	9.7	-132.32	7.3	301.8	175.9	158.4		17.46	10.071		
3,600.0	3,571.8	3,615.5	3,581.0	9.6	10.1	-130.69	7.5	318.4	180.8	162.6		18.18	9.943		
3,700.0	3,670.7	3,715.2	3,679.4	9.9	10.4	-129.16	7.8	335.0	185.8	166.9		18.90	9.833		
3,800.0	3,769.7	3,815.0	3,777.8	10.2	10.8	-127.70	8.1	351.5	191.0	171.4		19.61	9.739		
3,900.0	3,868.6	3,914.8	3,876.1	10.5	11.1	-126.33	8.3	368.1	196.3	176.0		20.32	9.659		
4,000.0	3,967.5	4,014.5	3,974.5	10.8	11.4	-125.03	8.6	384.7	201.7	180.7		21.03	9.591		
4,100.0	4,066.5	4,114.3	4,072.9	11.1	11.8	-123.79	8.9	401.3	207.2	185.5		21.74	9.533		
4,200.0	4,165.4	4,214.0	4,171.2	11.4	12.1	-122.62	9.1	417.9	212.8	190.4		22.44	9.484		
4,300.0	4,264.3	4,313.8	4,269.6	11.7	12.5	-121.51	9.4	434.4	218.5	195.4		23.14	9.444		
4,400.0	4,363.3	4,413.5	4,367.9	12.1	12.8	-120.46	9.7	451.0	224.3	200.4		23.83	9.410		
4,500.0	4,462.2	4,513.3	4,466.3	12.4	13.1	-119.46	9.9	467.6	230.1	205.6		24.52	9.383		
4,600.0	4,561.1	4,613.0	4,564.7	12.7	13.5	-118.50	10.2	484.2	236.0	210.8		25.21	9.361		
4,700.0	4,660.1	4,712.8	4,663.0	13.0	13.8	-117.60	10.5	500.7	241.9	216.1		25.90	9.343		
4,800.0	4,759.0	4,812.5	4,761.4	13.3	14.2	-116.74	10.7	517.3	248.0	221.4		26.58	9.330		
4,900.0	4,857.9	4,912.3	4,859.8	13.6	14.5	-115.92	11.0	533.9	254.0	226.8		27.26	9.320		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,000.0	4,956.9	5,012.0	4,958.1	13.9	14.8	-115.14	11.3	550.5	260.2	232.2	27.93	9.313			
5,100.0	5,055.8	5,111.8	5,056.5	14.2	15.2	-114.39	11.5	567.0	266.3	237.7	28.61	9.310			
5,200.0	5,154.7	5,211.5	5,154.9	14.5	15.5	-113.68	11.8	583.6	272.5	243.2	29.28	9.308			
5,300.0	5,253.7	5,311.3	5,253.2	14.8	15.8	-113.00	12.1	600.2	278.8	248.8	29.95	9.309			
5,400.0	5,352.6	5,411.0	5,351.6	15.1	16.2	-112.35	12.3	616.8	285.1	254.4	30.61	9.312			
5,500.0	5,451.5	5,510.8	5,449.9	15.5	16.5	-111.73	12.6	633.3	291.4	260.1	31.28	9.316			
5,600.0	5,550.5	5,610.5	5,548.3	15.8	16.9	-111.13	12.9	649.9	297.7	265.8	31.94	9.322			
5,700.0	5,649.4	5,710.3	5,646.7	16.1	17.2	-110.56	13.1	666.5	304.1	271.5	32.60	9.329			
5,800.0	5,748.3	5,810.0	5,745.0	16.4	17.5	-110.02	13.4	683.1	310.5	277.3	33.26	9.337			
5,900.0	5,847.3	5,909.8	5,843.4	16.7	17.9	-109.49	13.7	699.6	317.0	283.1	33.92	9.346			
6,000.0	5,946.2	6,009.5	5,941.8	17.0	18.2	-108.99	13.9	716.2	323.4	288.9	34.57	9.356			
6,100.0	6,045.1	6,109.3	6,040.1	17.3	18.6	-108.50	14.2	732.8	329.9	294.7	35.23	9.366			
6,200.0	6,144.1	6,209.0	6,138.5	17.6	18.9	-108.04	14.5	749.4	336.4	300.6	35.88	9.377			
6,300.0	6,243.0	6,308.8	6,236.9	17.9	19.3	-107.59	14.7	766.0	343.0	306.4	36.53	9.389			
6,400.0	6,341.9	6,408.5	6,335.2	18.2	19.6	-107.16	15.0	782.5	349.5	312.3	37.18	9.401			
6,500.0	6,440.9	6,508.3	6,433.6	18.5	19.9	-106.74	15.3	799.1	356.1	318.3	37.83	9.414			
6,600.0	6,539.8	6,608.0	6,532.0	18.9	20.3	-106.34	15.5	815.7	362.7	324.2	38.47	9.427			
6,700.0	6,638.7	6,707.8	6,630.3	19.2	20.6	-105.96	15.8	832.3	369.3	330.2	39.12	9.440			
6,800.0	6,737.7	6,816.1	6,737.1	19.5	21.0	-105.55	15.9	850.3	375.8	336.0	39.81	9.439			
6,810.4	6,748.0	6,837.7	6,758.4	19.5	21.1	-105.45	15.1	853.9	376.1	336.2	39.92	9.422			
6,850.0	6,787.2	6,919.5	6,838.6	19.6	21.3	-82.81	6.4	867.4	373.3	333.3	40.04	9.324			
6,900.0	6,836.7	7,017.3	6,932.3	19.7	21.7	-53.64	-16.2	883.2	360.7	321.1	39.63	9.102			
6,950.0	6,886.0	7,103.7	7,011.9	19.8	22.0	-32.24	-46.7	896.6	339.0	300.2	38.79	8.739			
7,000.0	6,934.8	7,175.8	7,075.2	19.9	22.2	-17.28	-79.5	907.2	309.8	272.0	37.78	8.201			
7,050.0	6,982.9	7,233.5	7,123.4	20.0	22.4	-4.90	-110.3	915.4	275.0	238.2	36.80	7.474			
7,100.0	7,030.1	7,278.3	7,158.9	20.0	22.6	7.75	-136.9	921.3	236.2	200.2	35.96	6.567			
7,150.0	7,076.1	7,312.0	7,184.6	20.1	22.8	22.64	-158.3	925.7	194.8	159.6	35.29	5.521			
7,200.0	7,120.8	7,336.5	7,202.6	20.1	22.9	40.18	-174.7	928.7	152.8	118.1	34.71	4.402			
7,250.0	7,163.8	7,353.7	7,214.9	20.1	22.9	57.62	-186.4	930.8	112.6	78.8	33.81	3.331			
7,300.0	7,205.0	7,364.7	7,222.6	20.2	23.0	70.72	-194.2	932.1	80.7	49.6	31.09	2.597 SF			
7,339.0	7,235.7	7,369.9	7,226.2	20.2	23.0	76.57	-197.9	932.7	70.9	44.1	26.79	2.646 CC, ES			
7,350.0	7,244.1	7,370.9	7,226.9	20.2	23.0	77.51	-198.6	932.8	71.7	45.9	25.84	2.776			
7,400.0	7,281.1	7,373.0	7,228.4	20.2	23.0	78.10	-200.1	933.0	93.4	67.3	26.12	3.575			
7,450.0	7,315.7	7,371.9	7,227.6	20.3	23.0	73.10	-199.3	932.9	131.5	103.1	28.43	4.625			
7,500.0	7,347.7	7,368.1	7,224.9	20.3	23.0	63.43	-196.6	932.5	175.4	145.4	29.98	5.852			
7,550.0	7,377.0	7,361.9	7,220.7	20.4	23.0	51.10	-192.2	931.7	221.4	190.4	31.03	7.138			
7,600.0	7,403.4	7,350.0	7,212.3	20.5	22.9	37.21	-183.9	930.3	268.2	236.7	31.48	8.520			
7,650.0	7,426.8	7,350.0	7,212.3	20.6	22.9	30.50	-183.9	930.3	314.8	281.9	32.95	9.556			
7,700.0	7,447.2	7,333.3	7,200.2	20.8	22.9	21.07	-172.4	928.3	361.0	327.9	33.13	10.897			
7,750.0	7,464.3	7,321.1	7,191.3	20.9	22.8	15.45	-164.3	926.8	406.5	372.8	33.71	12.060			
7,800.0	7,478.2	7,300.0	7,175.6	21.2	22.7	10.66	-150.5	924.1	451.3	417.5	33.84	13.336			
7,850.0	7,488.7	7,300.0	7,175.6	21.4	22.7	8.63	-150.5	924.1	495.0	459.9	35.11	14.097			
7,900.0	7,495.8	7,279.0	7,159.4	21.6	22.6	5.89	-137.3	921.4	537.5	502.1	35.35	15.206			
7,950.0	7,499.5	7,263.5	7,147.3	21.9	22.6	4.05	-127.8	919.4	578.8	543.0	35.87	16.137			
7,978.1	7,500.0	7,250.0	7,136.7	22.1	22.5	3.06	-119.8	917.6	601.5	565.5	35.99	16.715			
8,000.0	7,500.0	7,250.0	7,136.7	22.2	22.5	3.06	-119.8	917.6	619.1	582.6	36.47	16.974			
8,100.0	7,500.0	7,217.9	7,110.6	23.0	22.4	2.21	-101.6	913.2	700.9	663.7	37.28	18.803			
8,200.0	7,500.0	7,200.0	7,095.7	23.8	22.3	1.78	-92.0	910.7	785.1	746.9	38.26	20.522			
8,300.0	7,500.0	7,168.2	7,068.7	24.7	22.2	1.06	-75.8	906.1	871.0	832.3	38.65	22.532			
8,400.0	7,500.0	7,150.0	7,053.0	25.7	22.1	0.69	-67.1	903.5	958.6	919.3	39.26	24.419			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1		Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD															Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	1.0	1.0	0.0	0.0	-89.78	0.4	-110.0	110.0							
100.0	100.0	101.0	101.0	0.1	0.2	-89.78	0.4	-110.0	110.0	109.7	0.30	368.425				
200.0	200.0	201.0	201.0	0.3	0.3	-89.78	0.4	-110.0	110.0	109.3	0.65	169.813				
300.0	300.0	301.0	301.0	0.5	0.5	-89.78	0.4	-110.0	110.0	109.0	1.00	110.334				
316.3	316.3	317.3	317.3	0.5	0.5	-89.78	0.4	-110.0	110.0	108.9	1.05	104.365 CC				
400.0	400.0	401.0	401.0	0.7	0.7	-89.78	0.4	-110.0	110.0	108.6	1.35	81.712 ES				
500.0	500.0	500.9	500.9	0.8	0.9	157.22	2.2	-110.0	110.8	109.1	1.70	65.282				
600.0	600.0	600.5	600.3	1.0	1.0	160.36	7.4	-110.0	113.5	111.4	2.06	55.104				
700.0	699.9	702.1	701.7	1.2	1.2	164.39	14.2	-109.1	117.6	115.1	2.43	48.349				
800.0	799.7	803.8	803.2	1.4	1.4	168.17	20.3	-106.6	122.2	119.3	2.81	43.526				
900.0	899.4	905.5	904.7	1.6	1.6	171.69	25.7	-102.4	127.2	124.0	3.18	39.959				
1,000.0	998.9	1,007.4	1,006.3	1.8	1.8	174.96	30.4	-96.5	132.6	129.0	3.56	37.235				
1,100.0	1,098.3	1,109.4	1,107.9	2.1	2.1	178.00	34.5	-88.9	138.3	134.4	3.94	35.093				
1,200.0	1,197.4	1,211.5	1,209.6	2.3	2.3	-179.18	37.9	-79.7	144.4	140.1	4.33	33.360				
1,237.8	1,234.9	1,250.2	1,248.0	2.4	2.4	-178.16	39.0	-75.7	146.8	142.3	4.48	32.784				
1,300.0	1,296.4	1,313.8	1,311.2	2.6	2.5	-176.55	40.6	-68.7	150.4	145.7	4.72	31.845				
1,400.0	1,395.3	1,416.1	1,412.8	2.9	2.8	-174.05	42.7	-56.1	155.1	150.0	5.13	30.232				
1,500.0	1,494.2	1,518.7	1,514.2	3.2	3.0	-171.59	44.0	-41.7	158.3	152.7	5.55	28.512				
1,600.0	1,593.2	1,621.2	1,615.5	3.5	3.3	-169.08	44.7	-25.7	159.9	154.0	5.99	26.702				
1,700.0	1,692.1	1,723.7	1,716.5	3.8	3.6	-166.46	44.6	-8.0	160.2	153.7	6.45	24.820				
1,800.0	1,791.0	1,824.8	1,815.8	4.1	4.0	-163.72	44.0	11.0	159.3	152.3	6.95	22.923				
1,900.0	1,890.0	1,924.5	1,913.7	4.4	4.3	-160.96	43.3	29.8	158.5	151.0	7.47	21.216				
2,000.0	1,988.9	2,024.2	2,011.6	4.7	4.6	-158.18	42.6	48.7	158.1	150.1	8.02	19.707				
2,056.8	2,045.1	2,080.8	2,067.2	4.9	4.8	-156.60	42.2	59.4	158.0	149.7	8.35	18.929				
2,100.0	2,087.8	2,123.9	2,109.5	5.0	5.0	-155.40	41.9	67.5	158.1	149.5	8.60	18.373				
2,200.0	2,186.7	2,223.6	2,207.4	5.3	5.3	-152.61	41.2	86.4	158.4	149.2	9.21	17.195				
2,300.0	2,285.7	2,323.3	2,305.3	5.6	5.7	-149.85	40.5	105.3	159.1	149.3	9.85	16.157				
2,400.0	2,384.6	2,423.0	2,403.2	5.9	6.1	-147.12	39.8	124.1	160.2	149.7	10.51	15.244				
2,500.0	2,483.5	2,522.7	2,501.1	6.2	6.4	-144.43	39.1	143.0	161.7	150.5	11.19	14.443				
2,600.0	2,582.5	2,622.4	2,599.0	6.5	6.8	-141.80	38.3	161.8	163.5	151.6	11.90	13.742				
2,700.0	2,681.4	2,722.1	2,696.9	6.8	7.1	-139.22	37.6	180.7	165.6	153.0	12.62	13.130				
2,800.0	2,780.3	2,821.8	2,794.8	7.1	7.5	-136.72	36.9	199.6	168.1	154.8	13.35	12.596				
2,900.0	2,879.3	2,921.5	2,892.7	7.4	7.9	-134.30	36.2	218.4	170.9	156.8	14.09	12.132				
3,000.0	2,978.2	3,021.2	2,990.6	7.7	8.2	-131.95	35.5	237.3	174.0	159.1	14.83	11.730				
3,100.0	3,077.1	3,121.0	3,088.5	8.0	8.6	-129.69	34.8	256.1	177.3	161.8	15.58	11.381				
3,200.0	3,176.1	3,220.7	3,186.4	8.3	9.0	-127.52	34.1	275.0	181.0	164.6	16.33	11.080				
3,300.0	3,275.0	3,320.4	3,284.3	8.7	9.3	-125.43	33.4	293.9	184.8	167.8	17.08	10.821				
3,400.0	3,373.9	3,420.1	3,382.2	9.0	9.7	-123.44	32.7	312.7	189.0	171.1	17.83	10.598				
3,500.0	3,472.9	3,519.8	3,480.1	9.3	10.1	-121.53	32.0	331.6	193.3	174.7	18.57	10.406				
3,600.0	3,571.8	3,619.5	3,578.0	9.6	10.4	-119.70	31.3	350.4	197.8	178.5	19.31	10.243				
3,700.0	3,670.7	3,719.2	3,675.9	9.9	10.8	-117.96	30.6	369.3	202.6	182.5	20.05	10.103				
3,800.0	3,769.7	3,818.9	3,773.8	10.2	11.2	-116.30	29.9	388.2	207.5	186.7	20.78	9.985				
3,900.0	3,868.6	3,918.6	3,871.7	10.5	11.6	-114.72	29.2	407.0	212.5	191.0	21.50	9.885				
4,000.0	3,967.5	4,018.3	3,969.6	10.8	11.9	-113.21	28.4	425.9	217.8	195.6	22.22	9.802				
4,100.0	4,066.5	4,118.0	4,067.5	11.1	12.3	-111.77	27.7	444.7	223.2	200.2	22.93	9.732				
4,200.0	4,165.4	4,217.7	4,165.4	11.4	12.7	-110.40	27.0	463.6	228.7	205.0	23.63	9.675				
4,300.0	4,264.3	4,317.4	4,263.3	11.7	13.1	-109.10	26.3	482.5	234.3	210.0	24.33	9.629				
4,400.0	4,363.3	4,417.1	4,361.2	12.1	13.4	-107.86	25.6	501.3	240.0	215.0	25.03	9.592				
4,500.0	4,462.2	4,516.8	4,459.1	12.4	13.8	-106.68	24.9	520.2	245.9	220.2	25.71	9.563				
4,600.0	4,561.1	4,616.5	4,557.0	12.7	14.2	-105.55	24.2	539.0	251.9	225.5	26.40	9.542				
4,700.0	4,660.1	4,716.2	4,654.9	13.0	14.5	-104.47	23.5	557.9	257.9	230.8	27.07	9.527				
4,800.0	4,759.0	4,815.9	4,752.8	13.3	14.9	-103.45	22.8	576.8	264.0	236.3	27.74	9.518				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
4,900.0	4,857.9	4,915.6	4,850.7	13.6	15.3	-102.47	22.1	595.6	270.3	241.9	28.41	9.513			
5,000.0	4,956.9	5,015.3	4,948.6	13.9	15.7	-101.53	21.4	614.5	276.6	247.5	29.07	9.513			
5,100.0	5,055.8	5,115.0	5,046.5	14.2	16.0	-100.64	20.7	633.4	282.9	253.2	29.73	9.516			
5,200.0	5,154.7	5,214.7	5,144.4	14.5	16.4	-99.78	20.0	652.2	289.3	259.0	30.39	9.523			
5,300.0	5,253.7	5,314.4	5,242.3	14.8	16.8	-98.97	19.2	671.1	295.8	264.8	31.04	9.532			
5,400.0	5,352.6	5,414.1	5,340.2	15.1	17.2	-98.19	18.5	689.9	302.4	270.7	31.68	9.544			
5,500.0	5,451.5	5,513.8	5,438.1	15.5	17.5	-97.44	17.8	708.8	309.0	276.7	32.33	9.558			
5,600.0	5,550.5	5,613.5	5,536.0	15.8	17.9	-96.72	17.1	727.7	315.6	282.7	32.97	9.574			
5,700.0	5,649.4	5,713.2	5,633.9	16.1	18.3	-96.03	16.4	746.5	322.3	288.7	33.61	9.592			
5,800.0	5,748.3	5,812.9	5,731.8	16.4	18.7	-95.37	15.7	765.4	329.1	294.8	34.24	9.611			
5,900.0	5,847.3	5,912.6	5,829.7	16.7	19.0	-94.74	15.0	784.2	335.9	301.0	34.87	9.631			
6,000.0	5,946.2	6,012.3	5,927.6	17.0	19.4	-94.13	14.3	803.1	342.7	307.2	35.50	9.652			
6,100.0	6,045.1	6,112.0	6,025.5	17.3	19.8	-93.55	13.6	822.0	349.5	313.4	36.13	9.674			
6,200.0	6,144.1	6,211.7	6,123.4	17.6	20.2	-92.99	12.9	840.8	356.4	319.7	36.76	9.697			
6,300.0	6,243.0	6,311.4	6,221.3	17.9	20.6	-92.45	12.2	859.7	363.4	326.0	37.38	9.721			
6,400.0	6,341.9	6,411.1	6,319.2	18.2	20.9	-91.93	11.5	878.5	370.3	332.3	38.00	9.745			
6,500.0	6,440.9	6,510.8	6,417.1	18.5	21.3	-91.43	10.8	897.4	377.3	338.7	38.62	9.769			
6,600.0	6,539.8	6,610.5	6,515.0	18.9	21.7	-90.94	10.1	916.3	384.3	345.1	39.24	9.794			
6,700.0	6,638.7	6,710.2	6,612.9	19.2	22.1	-90.48	9.3	935.1	391.4	351.5	39.86	9.819			
6,800.0	6,737.7	6,809.9	6,710.8	19.5	22.4	-90.03	8.6	954.0	398.4	358.0	40.47	9.844			
6,810.4	6,748.0	6,820.3	6,721.0	19.5	22.5	-89.98	8.6	955.9	399.2	358.6	40.54	9.847			
6,850.0	6,787.2	6,859.8	6,759.8	19.6	22.6	-89.75	8.3	963.4	401.0	360.2	40.76	9.837			
6,900.0	6,836.7	6,909.7	6,808.7	19.7	22.8	-89.46	7.9	972.8	400.4	359.4	41.00	9.766			
6,950.0	6,886.0	6,959.3	6,857.5	19.8	23.0	-89.15	7.6	982.2	396.7	355.6	41.19	9.633			
7,000.0	6,934.8	7,008.4	6,905.7	19.9	23.2	-88.88	7.2	991.5	390.0	348.7	41.31	9.441			
7,050.0	6,982.9	7,056.8	6,953.2	20.0	23.4	1.75	6.9	1,000.7	380.3	339.0	41.35	9.197			
7,100.0	7,030.1	7,104.3	6,999.8	20.0	23.5	8.41	6.6	1,009.7	367.9	326.6	41.30	8.907			
7,150.0	7,076.1	7,173.9	7,068.1	20.1	23.8	15.48	3.9	1,022.8	351.7	310.6	41.17	8.543			
7,200.0	7,120.8	7,243.7	7,136.0	20.1	24.1	23.90	-5.4	1,035.9	329.8	289.2	40.56	8.130			
7,250.0	7,163.8	7,301.2	7,191.0	20.1	24.3	33.52	-18.0	1,046.5	303.7	264.3	39.45	7.698			
7,300.0	7,205.0	7,347.0	7,234.1	20.2	24.5	44.07	-31.3	1,054.8	275.7	237.9	37.84	7.286			
7,350.0	7,244.1	7,382.5	7,266.8	20.2	24.6	54.65	-43.5	1,061.1	248.1	212.4	35.63	6.962			
7,400.0	7,281.1	7,409.2	7,291.0	20.2	24.7	64.10	-53.8	1,065.8	223.5	190.8	32.76	6.825 SF			
7,450.0	7,315.7	7,428.6	7,308.3	20.3	24.8	71.54	-61.8	1,069.1	205.3	175.9	29.44	6.974			
7,500.0	7,347.7	7,441.8	7,320.1	20.3	24.8	76.56	-67.5	1,071.4	196.6	169.8	26.74	7.352			
7,512.8	7,355.4	7,444.4	7,322.3	20.3	24.8	77.46	-68.7	1,071.8	196.2	169.8	26.36	7.444			
7,550.0	7,377.0	7,450.0	7,327.2	20.4	24.8	79.15	-71.2	1,072.7	199.5	173.3	26.25	7.602			
7,600.0	7,403.4	7,454.2	7,330.9	20.5	24.9	79.54	-73.1	1,073.4	214.2	186.0	28.15	7.607			
7,650.0	7,426.8	7,454.9	7,331.6	20.6	24.9	77.83	-73.4	1,073.6	238.4	207.4	31.01	7.691			
7,700.0	7,447.2	7,450.0	7,327.2	20.8	24.8	73.46	-71.2	1,072.7	269.7	236.2	33.54	8.043			
7,750.0	7,464.3	7,450.0	7,327.2	20.9	24.8	69.59	-71.2	1,072.7	305.7	269.7	35.97	8.498			
7,800.0	7,478.2	7,441.6	7,319.9	21.2	24.8	62.72	-67.4	1,071.3	344.5	306.9	37.59	9.165			
7,850.0	7,488.7	7,433.3	7,312.5	21.4	24.8	55.66	-63.8	1,069.9	385.2	346.2	38.95	9.888			
7,900.0	7,495.8	7,423.5	7,303.8	21.6	24.7	48.48	-59.6	1,068.2	426.7	386.6	40.05	10.654			
7,950.0	7,499.5	7,412.4	7,293.9	21.9	24.7	41.65	-55.1	1,066.3	468.5	427.6	40.96	11.438			
7,978.1	7,500.0	7,400.0	7,282.7	22.1	24.7	37.26	-50.1	1,064.2	492.0	450.8	41.21	11.939			
8,000.0	7,500.0	7,400.0	7,282.7	22.2	24.7	37.26	-50.1	1,064.2	510.4	468.7	41.72	12.234			
8,100.0	7,500.0	7,378.6	7,263.2	23.0	24.6	34.31	-42.1	1,060.4	596.5	553.5	42.94	13.891			
8,200.0	7,500.0	7,350.0	7,236.9	23.8	24.5	30.76	-32.3	1,055.3	685.4	641.8	43.58	15.727			
8,300.0	7,500.0	7,350.0	7,236.9	24.7	24.5	30.76	-32.3	1,055.3	776.1	731.5	44.62	17.394			
8,400.0	7,500.0	7,328.7	7,217.0	25.7	24.4	28.37	-25.7	1,051.5	868.2	823.2	44.99	19.297			
8,500.0	7,500.0	7,315.9	7,204.9	26.8	24.3	27.03	-22.0	1,049.2	961.6	916.2	45.41	21.176			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 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	0.0	0.0	0.0	0.0	-89.79	0.4	-100.2	100.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.79	0.4	-100.2	100.2	99.9	0.30	337.588		
200.0	200.0	200.0	200.0	0.3	0.3	-89.79	0.4	-100.2	100.2	99.5	0.65	155.108		
300.0	300.0	300.0	300.0	0.5	0.5	-89.79	0.4	-100.2	100.2	99.2	0.99	100.684		
305.9	305.9	305.9	305.9	0.5	0.5	-89.79	0.4	-100.2	100.2	99.1	1.02	98.626 CC		
400.0	400.0	400.0	400.0	0.7	0.7	-89.60	0.7	-100.2	100.2	98.8	1.34	74.529 ES		
500.0	500.0	499.9	499.9	0.8	0.9	157.98	3.3	-100.2	101.0	99.3	1.70	59.546		
600.0	600.0	599.5	599.3	1.0	1.0	161.38	8.5	-100.2	103.8	101.8	2.06	50.413		
700.0	699.9	698.6	698.1	1.2	1.2	166.15	16.3	-100.2	109.1	106.7	2.44	44.744		
800.0	799.7	800.9	800.0	1.4	1.5	171.44	25.4	-99.1	116.1	113.2	2.83	41.036		
900.0	899.4	904.6	903.3	1.6	1.7	175.97	33.0	-94.8	122.1	118.9	3.22	37.943		
1,000.0	998.9	1,008.6	1,006.9	1.8	1.9	179.90	38.7	-87.2	127.0	123.4	3.61	35.173		
1,100.0	1,098.3	1,112.9	1,110.5	2.1	2.1	-176.56	42.7	-76.2	130.5	126.5	4.01	32.563		
1,200.0	1,197.4	1,217.4	1,214.1	2.3	2.4	-173.27	44.7	-61.9	132.5	128.1	4.41	30.022		
1,237.8	1,234.9	1,257.0	1,253.1	2.4	2.5	-172.06	45.0	-55.7	132.9	128.3	4.57	29.066		
1,300.0	1,296.4	1,322.0	1,317.1	2.6	2.7	-170.07	44.9	-44.4	132.7	127.9	4.84	27.429		
1,400.0	1,395.3	1,425.8	1,418.8	2.9	3.0	-166.71	43.3	-23.7	129.8	124.5	5.29	24.544		
1,500.0	1,494.2	1,525.4	1,516.2	3.2	3.3	-163.23	41.1	-2.8	126.0	120.3	5.78	21.811		
1,600.0	1,593.2	1,625.0	1,613.6	3.5	3.7	-159.56	38.8	18.1	122.8	116.5	6.31	19.460		
1,700.0	1,692.1	1,724.6	1,710.9	3.8	4.0	-155.70	36.6	39.1	120.0	113.2	6.88	17.437		
1,800.0	1,791.0	1,824.3	1,808.3	4.1	4.4	-151.69	34.4	60.0	117.9	110.4	7.51	15.702		
1,900.0	1,890.0	1,923.9	1,905.7	4.4	4.8	-147.55	32.2	80.9	116.3	108.1	8.18	14.225		
2,000.0	1,988.9	2,023.5	2,003.1	4.7	5.2	-143.31	29.9	101.9	115.4	106.5	8.89	12.978		
2,094.8	2,082.6	2,117.9	2,095.3	5.0	5.5	-139.26	27.8	121.7	115.1	105.5	9.60	11.986		
2,100.0	2,087.8	2,123.2	2,100.4	5.0	5.6	-139.04	27.7	122.8	115.1	105.5	9.64	11.936		
2,200.0	2,186.7	2,222.8	2,197.8	5.3	5.9	-134.76	25.5	143.7	115.5	105.0	10.42	11.076		
2,300.0	2,285.7	2,322.4	2,295.2	5.6	6.3	-130.54	23.3	164.7	116.5	105.2	11.22	10.375		
2,400.0	2,384.6	2,422.0	2,392.6	5.9	6.7	-126.41	21.1	185.6	118.1	106.0	12.03	9.813		
2,500.0	2,483.5	2,521.7	2,489.9	6.2	7.1	-122.41	18.8	206.5	120.3	107.5	12.84	9.369		
2,600.0	2,582.5	2,621.3	2,587.3	6.5	7.5	-118.57	16.6	227.5	123.1	109.5	13.64	9.025		
2,700.0	2,681.4	2,720.9	2,684.7	6.8	7.9	-114.91	14.4	248.4	126.4	112.0	14.42	8.764		
2,800.0	2,780.3	2,820.5	2,782.1	7.1	8.3	-111.46	12.2	269.4	130.2	115.0	15.19	8.574		
2,900.0	2,879.3	2,920.2	2,879.5	7.4	8.7	-108.21	9.9	290.3	134.5	118.5	15.93	8.441		
3,000.0	2,978.2	3,019.8	2,976.8	7.7	9.2	-105.17	7.7	311.2	139.1	122.5	16.65	8.355		
3,100.0	3,077.1	3,119.4	3,074.2	8.0	9.6	-102.33	5.5	332.2	144.2	126.8	17.35	8.308		
3,200.0	3,176.1	3,219.0	3,171.6	8.3	10.0	-99.69	3.3	353.1	149.5	131.5	18.03	8.293 SF		
3,300.0	3,275.0	3,318.7	3,269.0	8.7	10.4	-97.24	1.1	374.0	155.2	136.5	18.69	8.303		
3,400.0	3,373.9	3,418.3	3,366.3	9.0	10.8	-94.96	-1.2	395.0	161.1	141.8	19.33	8.334		
3,500.0	3,472.9	3,517.9	3,463.7	9.3	11.2	-92.85	-3.4	415.9	167.3	147.3	19.96	8.381		
3,600.0	3,571.8	3,617.5	3,561.1	9.6	11.6	-90.89	-5.6	436.8	173.6	153.1	20.57	8.442		
3,700.0	3,670.7	3,717.2	3,658.5	9.9	12.0	-89.06	-7.8	457.8	180.2	159.0	21.17	8.513		
3,800.0	3,769.7	3,816.8	3,755.8	10.2	12.4	-87.37	-10.1	478.7	186.9	165.2	21.76	8.592		
3,900.0	3,868.6	3,916.4	3,853.2	10.5	12.8	-85.80	-12.3	499.6	193.8	171.5	22.33	8.677		
4,000.0	3,967.5	4,016.1	3,950.6	10.8	13.2	-84.33	-14.5	520.6	200.8	177.9	22.90	8.768		
4,100.0	4,066.5	4,115.7	4,048.0	11.1	13.6	-82.97	-16.7	541.5	208.0	184.5	23.47	8.861		
4,200.0	4,165.4	4,215.3	4,145.3	11.4	14.1	-81.69	-18.9	562.5	215.2	191.2	24.03	8.957		
4,300.0	4,264.3	4,314.9	4,242.7	11.7	14.5	-80.50	-21.2	583.4	222.5	198.0	24.58	9.055		
4,400.0	4,363.3	4,414.6	4,340.1	12.1	14.9	-79.38	-23.4	604.3	230.0	204.9	25.12	9.154		
4,500.0	4,462.2	4,514.2	4,437.5	12.4	15.3	-78.34	-25.6	625.3	237.5	211.8	25.67	9.253		
4,600.0	4,561.1	4,613.8	4,534.9	12.7	15.7	-77.36	-27.8	646.2	245.1	218.9	26.21	9.352		
4,700.0	4,660.1	4,713.4	4,632.2	13.0	16.1	-76.44	-30.1	667.1	252.8	226.0	26.74	9.451		
4,800.0	4,759.0	4,813.1	4,729.6	13.3	16.5	-75.57	-32.3	688.1	260.5	233.2	27.28	9.548		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
4,900.0	4,857.9	4,912.7	4,827.0	13.6	16.9	-74.75	-34.5	709.0	268.2	240.4	27.81	9.645			
5,000.0	4,956.9	5,012.3	4,924.4	13.9	17.3	-73.98	-36.7	729.9	276.1	247.7	28.34	9.741			
5,100.0	5,055.8	5,111.9	5,021.7	14.2	17.7	-73.25	-39.0	750.9	283.9	255.1	28.87	9.835			
5,200.0	5,154.7	5,211.6	5,119.1	14.5	18.2	-72.57	-41.2	771.8	291.9	262.5	29.40	9.928			
5,300.0	5,253.7	5,311.2	5,216.5	14.8	18.6	-71.91	-43.4	792.7	299.8	269.9	29.92	10.020			
5,400.0	5,352.6	5,410.8	5,313.9	15.1	19.0	-71.29	-45.6	813.7	307.8	277.4	30.45	10.109			
5,500.0	5,451.5	5,510.4	5,411.2	15.5	19.4	-70.71	-47.8	834.6	315.8	284.9	30.97	10.198			
5,600.0	5,550.5	5,610.1	5,508.6	15.8	19.8	-70.15	-50.1	855.5	323.9	292.4	31.50	10.284			
5,700.0	5,649.4	5,709.7	5,606.0	16.1	20.2	-69.62	-52.3	876.5	332.0	300.0	32.02	10.369			
5,800.0	5,748.3	5,809.3	5,703.4	16.4	20.6	-69.11	-54.5	897.4	340.1	307.6	32.54	10.452			
5,900.0	5,847.3	5,909.0	5,800.7	16.7	21.0	-68.63	-56.7	918.4	348.2	315.2	33.06	10.533			
6,000.0	5,946.2	6,008.6	5,898.1	17.0	21.5	-68.17	-59.0	939.3	356.4	322.8	33.58	10.613			
6,100.0	6,045.1	6,108.2	5,995.5	17.3	21.9	-67.73	-61.2	960.2	364.6	330.5	34.10	10.691			
6,200.0	6,144.1	6,207.8	6,092.9	17.6	22.3	-67.31	-63.4	981.2	372.8	338.2	34.62	10.767			
6,300.0	6,243.0	6,307.5	6,190.3	17.9	22.7	-66.91	-65.6	1,002.1	381.0	345.9	35.14	10.842			
6,400.0	6,341.9	6,407.1	6,287.6	18.2	23.1	-66.52	-67.8	1,023.0	389.3	353.6	35.66	10.915			
6,500.0	6,440.9	6,506.7	6,385.0	18.5	23.5	-66.15	-70.1	1,044.0	397.5	361.3	36.18	10.986			
6,600.0	6,539.8	6,606.3	6,482.4	18.9	23.9	-65.80	-72.3	1,064.9	405.8	369.1	36.70	11.056			
6,700.0	6,638.7	6,706.0	6,579.8	19.2	24.3	-65.46	-74.5	1,085.8	414.1	376.9	37.22	11.125			
6,800.0	6,737.7	6,805.6	6,677.1	19.5	24.8	-65.13	-76.7	1,106.8	422.4	384.6	37.74	11.192			
6,810.4	6,748.0	6,816.0	6,687.3	19.5	24.8	-65.10	-77.0	1,108.9	423.3	385.5	37.80	11.199			
6,850.0	6,787.2	6,855.4	6,725.8	19.6	25.0	-64.96	-77.8	1,117.2	425.8	387.9	37.95	11.222			
6,900.0	6,836.7	6,905.2	6,774.5	19.7	25.2	-64.63	-79.0	1,127.7	427.1	389.1	38.00	11.238			
6,950.0	6,886.0	6,954.7	6,822.8	19.8	25.4	5.51	-80.1	1,138.1	426.1	388.2	37.90	11.241			
7,000.0	6,934.8	7,003.6	6,870.6	19.9	25.6	18.48	-81.2	1,148.4	423.1	385.4	37.64	11.241			
7,050.0	6,982.9	7,051.7	6,917.7	20.0	25.8	27.54	-82.2	1,158.5	418.2	381.0	37.19	11.247			
7,100.0	7,030.1	7,098.8	6,963.7	20.0	26.0	34.65	-83.3	1,168.4	411.8	375.3	36.53	11.274			
7,150.0	7,076.1	7,144.7	7,008.6	20.1	26.2	40.83	-84.3	1,178.0	404.2	368.5	35.64	11.340			
7,200.0	7,120.8	7,197.6	7,060.3	20.1	26.4	47.25	-86.2	1,189.1	395.5	361.0	34.53	11.453			
7,250.0	7,163.8	7,250.9	7,112.0	20.1	26.6	54.27	-91.8	1,200.3	385.4	352.4	33.03	11.669			
7,300.0	7,205.0	7,295.7	7,155.2	20.2	26.8	61.07	-99.5	1,209.6	375.5	344.3	31.18	12.042			
7,350.0	7,244.1	7,332.4	7,190.1	20.2	27.0	67.22	-107.9	1,217.2	367.4	338.2	29.20	12.582			
7,400.0	7,281.1	7,361.7	7,217.6	20.2	27.1	72.36	-115.9	1,223.2	362.7	335.3	27.41	13.232			
7,425.4	7,299.0	7,374.0	7,229.1	20.2	27.1	74.51	-119.6	1,225.6	362.0	335.3	26.71	13.556			
7,450.0	7,315.7	7,384.4	7,238.7	20.3	27.2	76.28	-122.9	1,227.7	362.7	336.4	26.22	13.834			
7,500.0	7,347.7	7,400.0	7,253.1	20.3	27.3	78.72	-128.1	1,230.9	368.2	342.3	25.95	14.190			
7,550.0	7,377.0	7,413.4	7,265.4	20.4	27.3	80.30	-132.8	1,233.5	379.6	352.9	26.71	14.211			
7,600.0	7,403.4	7,421.4	7,272.6	20.5	27.4	80.45	-135.7	1,235.1	396.7	368.5	28.26	14.039			
7,650.0	7,426.8	7,425.7	7,276.6	20.6	27.4	79.46	-137.4	1,236.0	419.0	388.7	30.24	13.855			
7,700.0	7,447.2	7,427.0	7,277.8	20.8	27.4	77.41	-137.9	1,236.2	445.6	413.3	32.35	13.776			
7,750.0	7,464.3	7,425.8	7,276.6	20.9	27.4	74.40	-137.4	1,236.0	475.8	441.4	34.39	13.836			
7,800.0	7,478.2	7,422.3	7,273.5	21.2	27.4	70.56	-136.1	1,235.3	508.8	472.5	36.27	14.027			
7,850.0	7,488.7	7,416.9	7,268.6	21.4	27.3	66.06	-134.1	1,234.2	543.8	505.9	37.96	14.325			
7,900.0	7,495.8	7,409.8	7,262.1	21.6	27.3	61.10	-131.5	1,232.8	580.3	540.9	39.46	14.705			
7,950.0	7,499.5	7,400.0	7,253.1	21.9	27.3	55.73	-128.1	1,230.9	617.8	577.0	40.76	15.157			
7,978.1	7,500.0	7,400.0	7,253.1	22.1	27.3	53.43	-128.1	1,230.9	639.0	597.5	41.56	15.377			
8,000.0	7,500.0	7,400.0	7,253.1	22.2	27.3	53.43	-128.1	1,230.9	655.9	613.7	42.14	15.563			
8,100.0	7,500.0	7,374.1	7,229.3	23.0	27.1	50.42	-119.7	1,225.7	735.3	691.4	43.88	16.755			
8,200.0	7,500.0	7,350.0	7,206.7	23.8	27.0	47.73	-112.6	1,220.8	818.7	773.5	45.20	18.113			
8,300.0	7,500.0	7,350.0	7,206.7	24.7	27.0	47.73	-112.6	1,220.8	904.9	858.3	46.59	19.423			
8,400.0	7,500.0	7,333.6	7,191.2	25.7	27.0	45.96	-108.2	1,217.4	993.4	946.0	47.43	20.947			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.80	0.3	-90.1	90.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.80	0.3	-90.1	90.1	89.8	0.30	303.640		
200.0	200.0	200.0	200.0	0.3	0.3	-89.80	0.3	-90.1	90.1	89.4	0.65	139.511		
300.0	300.0	300.0	300.0	0.5	0.5	-89.80	0.3	-90.1	90.1	89.1	0.99	90.559 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.80	0.3	-90.1	90.1	89.1	0.99	90.548		
400.0	400.0	399.9	399.9	0.7	0.7	-88.69	2.1	-90.1	90.1	88.8	1.35	66.922 ES		
500.0	500.0	499.6	499.5	0.8	0.9	160.69	7.3	-90.1	91.2	89.5	1.71	53.287		
600.0	600.0	598.7	598.1	1.0	1.1	166.39	15.9	-90.1	94.9	92.8	2.10	45.175		
700.0	699.9	701.4	700.3	1.2	1.3	172.90	26.0	-88.4	99.9	97.4	2.50	39.924		
800.0	799.7	804.5	802.9	1.4	1.5	178.87	35.0	-83.2	104.3	101.3	2.91	35.816		
900.0	899.4	907.7	905.4	1.6	1.8	-175.45	42.7	-74.5	107.8	104.4	3.33	32.371		
1,000.0	998.9	1,011.0	1,007.8	1.8	2.1	-169.87	49.2	-62.3	110.4	106.7	3.77	29.321		
1,100.0	1,098.3	1,114.2	1,109.7	2.1	2.3	-164.21	54.3	-46.7	112.3	108.1	4.24	26.519		
1,200.0	1,197.4	1,217.3	1,210.9	2.3	2.7	-158.34	58.3	-27.6	113.6	108.8	4.76	23.888		
1,237.8	1,234.9	1,256.3	1,249.0	2.4	2.8	-156.03	59.4	-19.5	114.0	109.0	4.97	22.927		
1,300.0	1,296.4	1,320.2	1,311.3	2.6	3.0	-152.05	60.9	-5.1	114.2	108.8	5.35	21.354		
1,400.0	1,395.3	1,422.2	1,410.1	2.9	3.5	-144.86	62.3	20.5	113.3	107.3	6.03	18.808		
1,457.7	1,452.3	1,479.3	1,465.0	3.1	3.7	-140.54	62.7	35.6	113.0	106.5	6.45	17.521		
1,500.0	1,494.2	1,521.1	1,505.4	3.2	3.9	-137.37	63.1	46.7	113.2	106.4	6.77	16.718		
1,600.0	1,593.2	1,620.0	1,600.8	3.5	4.4	-129.98	63.9	72.8	115.0	107.4	7.55	15.236		
1,700.0	1,692.1	1,718.9	1,696.1	3.8	4.8	-122.94	64.7	99.0	118.7	110.3	8.33	14.245		
1,800.0	1,791.0	1,817.7	1,791.5	4.1	5.3	-116.40	65.5	125.1	124.1	115.0	9.10	13.638		
1,900.0	1,890.0	1,916.6	1,886.8	4.4	5.8	-110.46	66.3	151.3	131.0	121.1	9.83	13.319		
2,000.0	1,988.9	2,015.5	1,982.1	4.7	6.2	-105.16	67.2	177.5	139.1	128.6	10.53	13.210 SF		
2,100.0	2,087.8	2,114.4	2,077.5	5.0	6.7	-100.47	68.0	203.6	148.4	137.2	11.20	13.251		
2,200.0	2,186.7	2,213.2	2,172.8	5.3	7.2	-96.35	68.8	229.8	158.5	146.6	11.83	13.396		
2,300.0	2,285.7	2,312.1	2,268.2	5.6	7.7	-92.74	69.6	255.9	169.3	156.8	12.44	13.612		
2,400.0	2,384.6	2,411.0	2,363.5	5.9	8.2	-89.56	70.4	282.1	180.7	167.7	13.02	13.875		
2,500.0	2,483.5	2,509.9	2,458.9	6.2	8.7	-86.77	71.2	308.3	192.6	179.0	13.59	14.168		
2,600.0	2,582.5	2,608.7	2,554.2	6.5	9.2	-84.31	72.0	334.4	204.9	190.8	14.15	14.478		
2,700.0	2,681.4	2,707.6	2,649.6	6.8	9.6	-82.12	72.8	360.6	217.6	202.9	14.70	14.797		
2,800.0	2,780.3	2,806.5	2,744.9	7.1	10.1	-80.18	73.7	386.7	230.5	215.2	15.25	15.118		
2,900.0	2,879.3	2,905.4	2,840.3	7.4	10.6	-78.44	74.5	412.9	243.6	227.8	15.78	15.437		
3,000.0	2,978.2	3,004.2	2,935.6	7.7	11.1	-76.88	75.3	439.1	257.0	240.7	16.32	15.751		
3,100.0	3,077.1	3,103.1	3,031.0	8.0	11.6	-75.48	76.1	465.2	270.5	253.7	16.84	16.058		
3,200.0	3,176.1	3,202.0	3,126.3	8.3	12.1	-74.21	76.9	491.4	284.2	266.8	17.37	16.357		
3,300.0	3,275.0	3,300.9	3,221.7	8.7	12.6	-73.06	77.7	517.5	298.0	280.1	17.90	16.648		
3,400.0	3,373.9	3,399.7	3,317.0	9.0	13.1	-72.01	78.5	543.7	311.9	293.4	18.42	16.928		
3,500.0	3,472.9	3,498.6	3,412.4	9.3	13.6	-71.04	79.3	569.9	325.8	306.9	18.95	17.199		
3,600.0	3,571.8	3,597.5	3,507.7	9.6	14.1	-70.16	80.2	596.0	339.9	320.5	19.47	17.461		
3,700.0	3,670.7	3,696.4	3,603.1	9.9	14.6	-69.35	81.0	622.2	354.1	334.1	19.99	17.712		
3,800.0	3,769.7	3,795.2	3,698.4	10.2	15.1	-68.60	81.8	648.3	368.3	347.8	20.51	17.955		
3,900.0	3,868.6	3,894.1	3,793.7	10.5	15.6	-67.91	82.6	674.5	382.6	361.5	21.03	18.188		
4,000.0	3,967.5	3,993.0	3,889.1	10.8	16.1	-67.26	83.4	700.7	396.9	375.3	21.55	18.412		
4,100.0	4,066.5	4,091.8	3,984.4	11.1	16.6	-66.66	84.2	726.8	411.2	389.2	22.08	18.628		
4,200.0	4,165.4	4,190.7	4,079.8	11.4	17.1	-66.10	85.0	753.0	425.7	403.1	22.60	18.836		
4,300.0	4,264.3	4,289.6	4,175.1	11.7	17.6	-65.58	85.8	779.1	440.1	417.0	23.12	19.036		
4,400.0	4,363.3	4,388.5	4,270.5	12.1	18.1	-65.09	86.7	805.3	454.6	430.9	23.64	19.229		
4,500.0	4,462.2	4,487.3	4,365.8	12.4	18.6	-64.63	87.5	831.5	469.1	444.9	24.16	19.415		
4,600.0	4,561.1	4,586.2	4,461.2	12.7	19.1	-64.20	88.3	857.6	483.6	458.9	24.68	19.593		
4,700.0	4,660.1	4,685.1	4,556.5	13.0	19.6	-63.80	89.1	883.8	498.2	473.0	25.20	19.766		
4,800.0	4,759.0	4,784.0	4,651.9	13.3	20.1	-63.41	89.9	909.9	512.8	487.0	25.73	19.932		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total		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)	Uncertainty Axis			
4,900.0	4,857.9	4,882.8	4,747.2	13.6	20.6	-63.05	90.7	936.1	527.4	501.1	26.25	20.092		
5,000.0	4,956.9	4,981.7	4,842.6	13.9	21.1	-62.71	91.5	962.3	542.0	515.2	26.77	20.247		
5,100.0	5,055.8	5,080.6	4,937.9	14.2	21.6	-62.38	92.3	988.4	556.6	529.4	27.29	20.396		
5,200.0	5,154.7	5,179.5	5,033.3	14.5	22.1	-62.08	93.2	1,014.6	571.3	543.5	27.81	20.540		
5,300.0	5,253.7	5,278.3	5,128.6	14.8	22.6	-61.78	94.0	1,040.7	586.0	557.6	28.34	20.679		
5,400.0	5,352.6	5,377.2	5,224.0	15.1	23.1	-61.50	94.8	1,066.9	600.7	571.8	28.86	20.814		
5,500.0	5,451.5	5,476.1	5,319.3	15.5	23.6	-61.24	95.6	1,093.1	615.4	586.0	29.38	20.944		
5,600.0	5,550.5	5,575.0	5,414.6	15.8	24.1	-60.99	96.4	1,119.2	630.1	600.2	29.91	21.070		
5,700.0	5,649.4	5,673.8	5,510.0	16.1	24.6	-60.75	97.2	1,145.4	644.8	614.4	30.43	21.192		
5,800.0	5,748.3	5,772.7	5,605.3	16.4	25.1	-60.52	98.0	1,171.5	659.6	628.6	30.95	21.310		
5,900.0	5,847.3	5,871.6	5,700.7	16.7	25.6	-60.30	98.8	1,197.7	674.3	642.8	31.47	21.424		
6,000.0	5,946.2	5,970.5	5,796.0	17.0	26.1	-60.09	99.7	1,223.8	689.1	657.1	32.00	21.535		
6,100.0	6,045.1	6,069.3	5,891.4	17.3	26.6	-59.88	100.5	1,250.0	703.8	671.3	32.52	21.642		
6,200.0	6,144.1	6,168.2	5,986.7	17.6	27.1	-59.69	101.3	1,276.2	718.6	685.6	33.04	21.747		
6,300.0	6,243.0	6,267.1	6,082.1	17.9	27.6	-59.50	102.1	1,302.3	733.4	699.8	33.57	21.848		
6,400.0	6,341.9	6,365.9	6,177.4	18.2	28.1	-59.33	102.9	1,328.5	748.2	714.1	34.09	21.946		
6,500.0	6,440.9	6,464.8	6,272.8	18.5	28.6	-59.15	103.7	1,354.6	763.0	728.4	34.62	22.041		
6,600.0	6,539.8	6,563.7	6,368.1	18.9	29.1	-58.99	104.5	1,380.8	777.8	742.6	35.14	22.134		
6,700.0	6,638.7	6,662.6	6,463.5	19.2	29.6	-58.83	105.3	1,407.0	792.6	756.9	35.66	22.224		
6,800.0	6,737.7	6,761.4	6,558.8	19.5	30.2	-58.68	106.2	1,433.1	807.4	771.2	36.19	22.312		
6,810.4	6,748.0	6,771.7	6,568.7	19.5	30.2	-58.66	106.2	1,435.8	808.9	772.7	36.24	22.321		
6,850.0	6,787.2	6,810.9	6,606.5	19.6	30.4	-36.83	106.6	1,446.2	814.2	777.8	36.40	22.368		
6,900.0	6,836.7	6,860.5	6,654.3	19.7	30.7	-9.02	107.0	1,459.3	819.1	782.6	36.49	22.449		
6,950.0	6,886.0	6,909.8	6,701.9	19.8	30.9	10.44	107.4	1,472.4	822.0	785.5	36.45	22.553		
7,000.0	6,934.8	6,987.4	6,776.7	19.9	31.3	23.10	106.6	1,492.9	822.7	786.3	36.42	22.592		
7,050.0	6,982.9	7,107.2	6,891.0	20.0	31.9	33.69	90.0	1,524.3	818.2	782.2	36.06	22.689		
7,100.0	7,030.1	7,205.1	6,981.3	20.0	32.3	42.89	61.9	1,549.1	809.2	774.1	35.15	23.021		
7,150.0	7,076.1	7,280.4	7,047.8	20.1	32.7	50.85	31.7	1,567.3	797.7	763.7	33.98	23.473		
7,200.0	7,120.8	7,336.0	7,094.8	20.1	32.9	57.52	4.9	1,580.2	785.2	752.6	32.62	24.076		
7,250.0	7,163.8	7,375.7	7,127.1	20.1	33.1	62.89	-16.5	1,589.0	773.3	741.9	31.37	24.654		
7,300.0	7,205.0	7,403.2	7,148.7	20.2	33.2	67.07	-32.5	1,595.0	762.8	732.7	30.13	25.319		
7,350.0	7,244.1	7,421.3	7,162.6	20.2	33.3	70.16	-43.4	1,598.8	754.4	725.4	28.95	26.054		
7,400.0	7,281.1	7,432.2	7,170.8	20.2	33.3	72.32	-50.1	1,601.0	748.5	720.6	27.91	26.818		
7,450.0	7,315.7	7,437.3	7,174.7	20.3	33.3	73.66	-53.4	1,602.1	745.5	718.5	27.05	27.558		
7,475.8	7,332.5	7,438.2	7,175.3	20.3	33.4	74.08	-53.9	1,602.3	745.1	718.4	26.71	27.903		
7,500.0	7,347.7	7,438.1	7,175.2	20.3	33.4	74.30	-53.8	1,602.2	745.5	719.0	26.44	28.193		
7,550.0	7,377.0	7,435.3	7,173.1	20.4	33.3	74.33	-52.1	1,601.7	748.4	722.3	26.14	28.633		
7,600.0	7,403.4	7,429.7	7,168.9	20.5	33.3	73.83	-48.6	1,600.5	754.2	728.1	26.18	28.809		
7,650.0	7,426.8	7,421.8	7,162.9	20.6	33.3	72.87	-43.6	1,598.9	762.8	736.2	26.58	28.697		
7,700.0	7,447.2	7,411.9	7,155.4	20.8	33.2	71.50	-37.7	1,596.8	773.9	746.6	27.32	28.329		
7,750.0	7,464.3	7,400.0	7,146.2	20.9	33.2	69.76	-30.5	1,594.3	787.2	758.9	28.34	27.782		
7,800.0	7,478.2	7,387.8	7,136.6	21.2	33.1	67.80	-23.4	1,591.7	802.5	772.9	29.62	27.094		
7,850.0	7,488.7	7,374.0	7,125.6	21.4	33.1	65.58	-15.5	1,588.6	819.5	788.4	31.06	26.384		
7,900.0	7,495.8	7,359.2	7,113.8	21.6	33.0	63.18	-7.4	1,585.4	837.8	805.2	32.60	25.696		
7,950.0	7,499.5	7,350.0	7,106.3	21.9	33.0	61.05	-2.4	1,583.3	857.3	823.0	34.34	24.964		
7,978.1	7,500.0	7,334.5	7,093.6	22.1	32.9	59.20	5.7	1,579.8	868.5	833.4	35.18	24.692		
8,000.0	7,500.0	7,327.5	7,087.7	22.2	32.9	58.78	9.3	1,578.2	877.6	841.7	35.88	24.457		
8,100.0	7,500.0	7,300.0	7,064.6	23.0	32.7	57.13	22.7	1,571.9	923.6	884.5	39.08	23.630		
8,200.0	7,500.0	7,272.6	7,041.1	23.8	32.6	55.49	35.2	1,565.5	976.3	934.3	42.01	23.241		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1													Survey Program: 0-Geolink MWD			
													Offset Well Error:		0.0 ft	
Reference				Offset				Semi Major Axis			Distance					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	0.0	0.0	0.0	0.0	-89.81	0.3	-80.0	80.0							
100.0	100.0	100.0	100.0	0.1	0.1	-89.81	0.3	-80.0	80.0	79.7	0.30	269.693				
200.0	200.0	200.0	200.0	0.3	0.3	-89.81	0.3	-80.0	80.0	79.4	0.65	123.913	CC			
200.0	200.0	200.0	200.0	0.3	0.3	-89.81	0.3	-80.0	80.0	79.4	0.65	123.897				
300.0	300.0	300.0	299.9	0.5	0.5	-88.56	2.0	-80.0	80.0	79.0	1.00	80.168				
400.0	400.0	399.7	399.5	0.7	0.7	-84.84	7.2	-80.0	80.3	79.0	1.37	58.757	ES			
500.0	500.0	498.8	498.3	0.8	0.9	167.22	15.8	-80.0	82.4	80.7	1.76	46.767				
600.0	600.0	601.2	600.1	1.0	1.2	174.47	26.0	-78.3	86.0	83.8	2.17	39.642				
700.0	699.9	703.8	702.2	1.2	1.4	-178.69	34.9	-73.2	89.0	86.4	2.58	34.478				
800.0	799.7	806.4	804.1	1.4	1.6	-172.02	42.7	-64.5	91.3	88.3	3.00	30.412				
900.0	899.4	909.0	905.8	1.6	1.9	-165.28	49.3	-52.4	93.1	89.6	3.44	27.014				
1,000.0	998.9	1,011.4	1,006.9	1.8	2.2	-158.31	54.7	-36.9	94.4	90.5	3.92	24.064				
1,100.0	1,098.3	1,113.7	1,107.3	2.1	2.5	-150.97	58.9	-18.0	95.6	91.2	4.46	21.456				
1,200.0	1,197.4	1,215.5	1,206.6	2.3	2.9	-143.17	61.8	4.2	97.0	92.0	5.07	19.155				
1,237.8	1,234.9	1,254.0	1,243.9	2.4	3.1	-140.09	62.6	13.5	97.7	92.4	5.32	18.361				
1,300.0	1,296.4	1,316.9	1,304.8	2.6	3.3	-134.78	63.6	29.7	98.8	93.0	5.76	17.153				
1,400.0	1,395.3	1,417.0	1,400.8	2.9	3.8	-125.45	64.2	57.7	100.9	94.4	6.52	15.477				
1,500.0	1,494.2	1,515.5	1,495.2	3.2	4.3	-116.48	64.5	86.0	105.2	97.9	7.27	14.474				
1,600.0	1,593.2	1,614.1	1,589.6	3.5	4.8	-108.38	64.9	114.3	111.9	104.0	7.98	14.024				
1,700.0	1,692.1	1,712.7	1,684.0	3.8	5.3	-101.30	65.3	142.6	120.7	112.0	8.65	13.958	SF			
1,800.0	1,791.0	1,811.2	1,778.5	4.1	5.8	-95.24	65.6	170.9	131.0	121.8	9.26	14.144				
1,900.0	1,890.0	1,909.8	1,872.9	4.4	6.3	-90.09	66.0	199.2	142.6	132.8	9.84	14.490				
2,000.0	1,988.9	2,008.3	1,967.3	4.7	6.8	-85.74	66.3	227.5	155.2	144.8	10.39	14.931				
2,100.0	2,087.8	2,106.9	2,061.7	5.0	7.4	-82.06	66.7	255.8	168.5	157.6	10.93	15.424				
2,200.0	2,186.7	2,205.5	2,156.1	5.3	7.9	-78.92	67.1	284.1	182.4	171.0	11.44	15.943				
2,300.0	2,285.7	2,304.0	2,250.5	5.6	8.4	-76.22	67.4	312.4	196.8	184.9	11.95	16.468				
2,400.0	2,384.6	2,402.6	2,344.9	5.9	9.0	-73.90	67.8	340.7	211.6	199.1	12.45	16.988				
2,500.0	2,483.5	2,501.2	2,439.4	6.2	9.5	-71.88	68.2	369.0	226.6	213.7	12.95	17.496				
2,600.0	2,582.5	2,599.7	2,533.8	6.5	10.0	-70.11	68.5	397.3	241.9	228.5	13.45	17.988				
2,700.0	2,681.4	2,698.3	2,628.2	6.8	10.6	-68.55	68.9	425.6	257.4	243.5	13.94	18.460				
2,800.0	2,780.3	2,796.9	2,722.6	7.1	11.1	-67.17	69.3	453.9	273.1	258.6	14.44	18.913				
2,900.0	2,879.3	2,895.4	2,817.0	7.4	11.6	-65.94	69.6	482.2	288.9	273.9	14.93	19.346				
3,000.0	2,978.2	2,994.0	2,911.4	7.7	12.2	-64.84	70.0	510.5	304.8	289.4	15.42	19.759				
3,100.0	3,077.1	3,092.5	3,005.8	8.0	12.7	-63.85	70.3	538.7	320.8	304.9	15.92	20.152				
3,200.0	3,176.1	3,191.1	3,100.3	8.3	13.2	-62.95	70.7	567.0	336.9	320.5	16.41	20.527				
3,300.0	3,275.0	3,289.7	3,194.7	8.7	13.8	-62.13	71.1	595.3	353.1	336.2	16.91	20.883				
3,400.0	3,373.9	3,388.2	3,289.1	9.0	14.3	-61.38	71.4	623.6	369.3	351.9	17.40	21.223				
3,500.0	3,472.9	3,486.8	3,383.5	9.3	14.8	-60.70	71.8	651.9	385.6	367.7	17.90	21.546				
3,600.0	3,571.8	3,585.4	3,477.9	9.6	15.4	-60.07	72.2	680.2	401.9	383.5	18.39	21.855				
3,700.0	3,670.7	3,683.9	3,572.3	9.9	15.9	-59.49	72.5	708.5	418.3	399.4	18.89	22.149				
3,800.0	3,769.7	3,782.5	3,666.7	10.2	16.5	-58.96	72.9	736.8	434.7	415.4	19.38	22.429				
3,900.0	3,868.6	3,881.1	3,761.2	10.5	17.0	-58.46	73.3	765.1	451.2	431.3	19.88	22.697				
4,000.0	3,967.5	3,979.6	3,855.6	10.8	17.5	-58.00	73.6	793.4	467.7	447.3	20.38	22.952				
4,100.0	4,066.5	4,078.2	3,950.0	11.1	18.1	-57.57	74.0	821.7	484.2	463.3	20.87	23.197				
4,200.0	4,165.4	4,176.8	4,044.4	11.4	18.6	-57.17	74.3	850.0	500.7	479.4	21.37	23.431				
4,300.0	4,264.3	4,275.3	4,138.8	11.7	19.2	-56.80	74.7	878.3	517.3	495.4	21.87	23.655				
4,400.0	4,363.3	4,373.9	4,233.2	12.1	19.7	-56.44	75.1	906.6	533.9	511.5	22.37	23.869				
4,500.0	4,462.2	4,472.4	4,327.6	12.4	20.2	-56.11	75.4	934.9	550.5	527.6	22.87	24.075				
4,600.0	4,561.1	4,571.0	4,422.1	12.7	20.8	-55.80	75.8	963.2	567.1	543.7	23.36	24.272				
4,700.0	4,660.1	4,669.6	4,516.5	13.0	21.3	-55.51	76.2	991.5	583.7	559.9	23.86	24.462				
4,800.0	4,759.0	4,768.1	4,610.9	13.3	21.8	-55.23	76.5	1,019.8	600.4	576.0	24.36	24.644				
4,900.0	4,857.9	4,866.7	4,705.3	13.6	22.4	-54.97	76.9	1,048.1	617.0	592.2	24.86	24.819				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,000.0	4,956.9	4,965.3	4,799.7	13.9	22.9	-54.72	77.3	1,076.4	633.7	608.4	25.36	24.987			
5,100.0	5,055.8	5,063.8	4,894.1	14.2	23.5	-54.48	77.6	1,104.7	650.4	624.5	25.86	25.149			
5,200.0	5,154.7	5,162.4	4,988.5	14.5	24.0	-54.26	78.0	1,133.0	667.1	640.7	26.36	25.305			
5,300.0	5,253.7	5,261.0	5,083.0	14.8	24.6	-54.04	78.4	1,161.3	683.8	656.9	26.86	25.456			
5,400.0	5,352.6	5,359.5	5,177.4	15.1	25.1	-53.84	78.7	1,189.6	700.5	673.1	27.36	25.601			
5,500.0	5,451.5	5,458.1	5,271.8	15.5	25.6	-53.64	79.1	1,217.9	717.2	689.4	27.86	25.741			
5,600.0	5,550.5	5,556.6	5,366.2	15.8	26.2	-53.46	79.4	1,246.2	734.0	705.6	28.36	25.876			
5,700.0	5,649.4	5,655.2	5,460.6	16.1	26.7	-53.28	79.8	1,274.5	750.7	721.8	28.86	26.007			
5,800.0	5,748.3	5,753.8	5,555.0	16.4	27.3	-53.11	80.2	1,302.8	767.4	738.1	29.37	26.134			
5,900.0	5,847.3	5,852.3	5,649.4	16.7	27.8	-52.95	80.5	1,331.1	784.2	754.3	29.87	26.256			
6,000.0	5,946.2	5,950.9	5,743.9	17.0	28.3	-52.80	80.9	1,359.3	800.9	770.6	30.37	26.374			
6,100.0	6,045.1	6,049.5	5,838.3	17.3	28.9	-52.65	81.3	1,387.6	817.7	786.8	30.87	26.488			
6,200.0	6,144.1	6,148.0	5,932.7	17.6	29.4	-52.51	81.6	1,415.9	834.5	803.1	31.37	26.599			
6,300.0	6,243.0	6,246.6	6,027.1	17.9	30.0	-52.37	82.0	1,444.2	851.2	819.4	31.87	26.707			
6,400.0	6,341.9	6,345.2	6,121.5	18.2	30.5	-52.24	82.4	1,472.5	868.0	835.6	32.37	26.811			
6,500.0	6,440.9	6,443.7	6,215.9	18.5	31.0	-52.11	82.7	1,500.8	884.8	851.9	32.88	26.912			
6,600.0	6,539.8	6,542.3	6,310.3	18.9	31.6	-51.99	83.1	1,529.1	901.6	868.2	33.38	27.010			
6,700.0	6,638.7	6,640.9	6,404.8	19.2	32.1	-51.87	83.4	1,557.4	918.3	884.5	33.88	27.105			
6,800.0	6,737.7	6,739.4	6,499.2	19.5	32.7	-51.76	83.8	1,585.7	935.1	900.8	34.38	27.198			
6,810.4	6,748.0	6,749.7	6,509.0	19.5	32.7	-51.75	83.8	1,588.7	936.9	902.5	34.43	27.207			
6,850.0	6,787.2	6,788.7	6,546.4	19.6	32.9	-30.02	84.0	1,599.9	943.0	908.4	34.58	27.269			
6,900.0	6,836.7	6,838.1	6,593.7	19.7	33.2	-2.38	84.2	1,614.1	949.3	914.7	34.65	27.397			
6,950.0	6,886.0	6,887.2	6,640.8	19.8	33.5	16.88	84.4	1,628.2	954.0	919.4	34.59	27.579			
7,000.0	6,934.8	6,935.9	6,687.4	19.9	33.7	28.77	84.5	1,642.1	957.2	922.8	34.41	27.821			
7,050.0	6,982.9	6,983.9	6,733.4	20.0	34.0	36.53	84.7	1,655.9	958.9	924.8	34.09	28.128			
7,100.0	7,030.1	7,031.0	6,778.5	20.0	34.3	42.10	84.9	1,669.4	959.2	925.6	33.65	28.506			
7,150.0	7,076.1	7,076.9	6,822.5	20.1	34.5	46.48	85.1	1,682.6	958.4	925.3	33.09	28.965			
7,200.0	7,120.8	7,121.5	6,865.1	20.1	34.8	50.17	85.2	1,695.4	956.5	924.1	32.41	29.511			
7,250.0	7,163.8	7,164.4	6,906.3	20.1	35.0	53.45	85.4	1,707.7	953.9	922.2	31.64	30.150			
7,300.0	7,205.0	7,205.6	6,945.7	20.2	35.2	56.47	85.5	1,719.5	950.7	919.9	30.78	30.884			
7,350.0	7,244.1	7,244.7	6,983.2	20.2	35.4	59.29	85.7	1,730.8	947.2	917.3	29.87	31.706			
7,400.0	7,281.1	7,281.7	7,018.6	20.2	35.6	61.93	85.8	1,741.4	943.6	914.7	28.95	32.593			
7,450.0	7,315.7	7,331.3	7,066.1	20.3	35.9	65.16	84.4	1,755.6	940.1	912.0	28.11	33.437			
7,500.0	7,347.7	7,370.8	7,103.8	20.3	36.1	67.98	80.8	1,766.8	936.8	909.5	27.32	34.285			
7,550.0	7,377.0	7,400.8	7,132.3	20.4	36.3	70.26	76.6	1,775.3	934.5	907.8	26.69	35.007			
7,600.0	7,403.4	7,422.9	7,153.1	20.5	36.4	71.98	72.7	1,781.5	933.7	907.3	26.33	35.453			
7,600.1	7,403.5	7,423.0	7,153.2	20.5	36.4	71.98	72.7	1,781.5	933.7	907.3	26.33	35.454			
7,650.0	7,426.8	7,438.4	7,167.7	20.6	36.5	73.14	69.6	1,785.8	934.6	908.3	26.31	35.519			
7,700.0	7,447.2	7,448.6	7,177.2	20.8	36.5	73.78	67.4	1,788.6	937.5	910.8	26.67	35.150			
7,750.0	7,464.3	7,454.2	7,182.5	20.9	36.6	73.93	66.1	1,790.2	942.5	915.1	27.41	34.382			
7,800.0	7,478.2	7,456.2	7,184.3	21.2	36.6	73.64	65.6	1,790.7	949.7	921.2	28.51	33.315			
7,850.0	7,488.7	7,455.1	7,183.3	21.4	36.6	72.95	65.9	1,790.4	958.9	929.0	29.89	32.078			
7,900.0	7,495.8	7,450.0	7,178.6	21.6	36.5	71.82	67.1	1,789.0	970.0	938.5	31.49	30.801			
7,950.0	7,499.5	7,450.0	7,178.6	21.9	36.5	70.81	67.1	1,789.0	982.9	949.6	33.31	29.505			
7,978.1	7,500.0	7,441.5	7,170.6	22.1	36.5	69.66	68.9	1,786.7	990.8	956.5	34.30	28.886			
8,000.0	7,500.0	7,438.2	7,167.5	22.2	36.5	69.46	69.7	1,785.7	997.5	962.3	35.12	28.399			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4L-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Total	Separation	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.4	-69.9	69.9						
100.0	100.0	100.0	100.0	0.1	0.1	-89.65	0.4	-69.9	69.9	69.7	0.30	235.749			
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-69.9	69.9	69.3	0.65	108.317			
300.0	300.0	300.0	300.0	0.5	0.5	-89.65	0.4	-69.9	69.9	69.0	0.99	70.311			
400.0	400.0	400.0	400.0	0.7	0.7	-89.65	0.4	-69.9	69.9	68.6	1.34	52.048 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	156.53	0.4	-69.9	70.7	69.1	1.69	41.787			
600.0	600.0	600.0	600.0	1.0	1.0	157.34	0.4	-69.9	73.2	71.1	2.04	35.816			
700.0	699.9	699.9	699.9	1.2	1.2	158.57	0.4	-69.9	77.2	74.8	2.39	32.264			
800.0	799.7	799.2	799.2	1.4	1.4	159.98	0.3	-70.1	83.1	80.3	2.74	30.290			
900.0	899.4	897.7	897.7	1.6	1.5	160.89	-0.8	-71.4	91.7	88.6	3.09	29.660 SF			
1,000.0	998.9	995.8	995.7	1.8	1.7	161.27	-2.9	-74.1	103.2	99.8	3.44	29.980			
1,100.0	1,098.3	1,093.4	1,093.2	2.1	1.9	161.24	-6.0	-78.0	117.6	113.8	3.80	30.965			
1,200.0	1,197.4	1,190.4	1,190.0	2.3	2.1	160.94	-10.2	-83.1	134.8	130.7	4.16	32.423			
1,237.8	1,234.9	1,226.9	1,226.4	2.4	2.2	160.78	-12.0	-85.4	142.1	137.8	4.30	33.068			
1,300.0	1,296.4	1,286.7	1,285.9	2.6	2.3	160.48	-15.3	-89.5	154.5	150.0	4.52	34.158			
1,400.0	1,395.3	1,384.1	1,382.9	2.9	2.5	159.89	-21.2	-96.8	175.2	170.3	4.90	35.753			
1,500.0	1,494.2	1,482.0	1,480.3	3.2	2.7	159.41	-27.2	-104.2	195.8	190.6	5.28	37.093			
1,600.0	1,593.2	1,579.8	1,577.6	3.5	2.9	159.03	-33.1	-111.6	216.5	210.9	5.66	38.234			
1,700.0	1,692.1	1,677.6	1,675.0	3.8	3.1	158.71	-39.1	-119.0	237.2	231.2	6.05	39.216			
1,800.0	1,791.0	1,775.4	1,772.4	4.1	3.4	158.45	-45.0	-126.3	257.9	251.5	6.44	40.070			
1,900.0	1,890.0	1,873.3	1,869.7	4.4	3.6	158.22	-51.0	-133.7	278.7	271.8	6.83	40.817			
2,000.0	1,988.9	1,971.1	1,967.1	4.7	3.8	158.02	-57.0	-141.1	299.4	292.2	7.22	41.477			
2,100.0	2,087.8	2,068.9	2,064.5	5.0	4.0	157.85	-62.9	-148.5	320.1	312.5	7.61	42.063			
2,200.0	2,186.7	2,166.8	2,161.8	5.3	4.3	157.71	-68.9	-155.8	340.8	332.8	8.00	42.587			
2,300.0	2,285.7	2,264.6	2,259.2	5.6	4.5	157.57	-74.8	-163.2	361.5	353.1	8.40	43.058			
2,400.0	2,384.6	2,362.4	2,356.6	5.9	4.7	157.46	-80.8	-170.6	382.3	373.5	8.79	43.484			
2,500.0	2,483.5	2,460.2	2,453.9	6.2	5.0	157.35	-86.7	-178.0	403.0	393.8	9.19	43.870			
2,600.0	2,582.5	2,558.1	2,551.3	6.5	5.2	157.25	-92.7	-185.4	423.7	414.1	9.58	44.222			
2,700.0	2,681.4	2,655.9	2,648.7	6.8	5.4	157.17	-98.6	-192.7	444.4	434.5	9.98	44.544			
2,800.0	2,780.3	2,753.7	2,746.0	7.1	5.6	157.09	-104.6	-200.1	465.2	454.8	10.37	44.839			
2,900.0	2,879.3	2,851.5	2,843.4	7.4	5.9	157.02	-110.5	-207.5	485.9	475.1	10.77	45.112			
3,000.0	2,978.2	2,949.4	2,940.8	7.7	6.1	156.95	-116.5	-214.9	506.6	495.5	11.17	45.364			
3,100.0	3,077.1	3,047.2	3,038.1	8.0	6.3	156.89	-122.4	-222.2	527.4	515.8	11.57	45.597			
3,200.0	3,176.1	3,145.0	3,135.5	8.3	6.6	156.83	-128.4	-229.6	548.1	536.1	11.96	45.814			
3,300.0	3,275.0	3,242.8	3,232.9	8.7	6.8	156.78	-134.3	-237.0	568.8	556.5	12.36	46.016			
3,400.0	3,373.9	3,340.7	3,330.2	9.0	7.1	156.73	-140.3	-244.4	589.6	576.8	12.76	46.205			
3,500.0	3,472.9	3,438.5	3,427.6	9.3	7.3	156.69	-146.2	-251.8	610.3	597.1	13.16	46.381			
3,600.0	3,571.8	3,536.3	3,525.0	9.6	7.5	156.65	-152.2	-259.1	631.0	617.5	13.56	46.547			
3,700.0	3,670.7	3,634.1	3,622.3	9.9	7.8	156.61	-158.1	-266.5	651.8	637.8	13.96	46.702			
3,800.0	3,769.7	3,732.0	3,719.7	10.2	8.0	156.57	-164.1	-273.9	672.5	658.1	14.35	46.849			
3,900.0	3,868.6	3,829.8	3,817.1	10.5	8.2	156.53	-170.0	-281.3	693.2	678.5	14.75	46.987			
4,000.0	3,967.5	3,927.6	3,914.4	10.8	8.5	156.50	-176.0	-288.6	714.0	698.8	15.15	47.117			
4,100.0	4,066.5	4,025.4	4,011.8	11.1	8.7	156.47	-181.9	-296.0	734.7	719.1	15.55	47.241			
4,200.0	4,165.4	4,123.3	4,109.1	11.4	8.9	156.44	-187.9	-303.4	755.4	739.5	15.95	47.358			
4,300.0	4,264.3	4,221.1	4,206.5	11.7	9.2	156.41	-193.8	-310.8	776.2	759.8	16.35	47.469			
4,400.0	4,363.3	4,318.9	4,303.9	12.1	9.4	156.39	-199.8	-318.2	796.9	780.1	16.75	47.574			
4,500.0	4,462.2	4,416.8	4,401.2	12.4	9.6	156.36	-205.7	-325.5	817.6	800.5	17.15	47.674			
4,600.0	4,561.1	4,514.6	4,498.6	12.7	9.9	156.34	-211.7	-332.9	838.4	820.8	17.55	47.770			
4,700.0	4,660.1	4,612.4	4,596.0	13.0	10.1	156.32	-217.6	-340.3	859.1	841.1	17.95	47.861			
4,800.0	4,759.0	4,710.2	4,693.3	13.3	10.4	156.29	-223.6	-347.7	879.8	861.5	18.35	47.948			
4,900.0	4,857.9	4,808.1	4,790.7	13.6	10.6	156.27	-229.5	-355.0	900.6	881.8	18.75	48.031			
5,000.0	4,956.9	4,905.9	4,888.1	13.9	10.8	156.25	-235.5	-362.4	921.3	902.1	19.15	48.110			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4L-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,055.8	5,003.7	4,985.4	14.2	11.1	156.24	-241.4	-369.8	942.0	922.5	19.55	48.186	
5,200.0	5,154.7	5,101.5	5,082.8	14.5	11.3	156.22	-247.4	-377.2	962.8	942.8	19.95	48.259	
5,300.0	5,253.7	5,199.4	5,180.2	14.8	11.5	156.20	-253.3	-384.5	983.5	963.2	20.35	48.329	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: 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	-89.59	0.4	-60.2	60.2						
100.0	100.0	100.0	100.0	0.1	0.1	-89.59	0.4	-60.2	60.2	59.9	0.30	202.745			
200.0	200.0	200.0	200.0	0.3	0.3	-89.59	0.4	-60.2	60.2	59.5	0.65	93.153			
300.0	300.0	300.0	300.0	0.5	0.5	-89.59	0.4	-60.2	60.2	59.2	0.99	60.468			
400.0	400.0	400.0	400.0	0.7	0.7	-89.59	0.4	-60.2	60.2	58.8	1.34	44.762 CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	156.64	0.4	-60.2	61.0	59.3	1.69	36.004			
600.0	600.0	600.0	600.0	1.0	1.0	157.57	0.4	-60.2	63.4	61.3	2.04	31.023			
700.0	699.9	699.9	699.9	1.2	1.2	158.97	0.4	-60.2	67.4	65.0	2.39	28.178			
800.0	799.7	799.7	799.7	1.4	1.4	160.66	0.4	-60.2	73.2	70.4	2.74	26.666			
900.0	899.4	898.5	898.5	1.6	1.5	161.99	-0.2	-60.7	81.1	78.0	3.09	26.223 SF			
1,000.0	998.9	997.1	997.1	1.8	1.7	162.51	-2.1	-62.5	91.8	88.3	3.44	26.641			
1,100.0	1,098.3	1,095.2	1,095.1	2.1	1.9	162.43	-5.2	-65.3	105.1	101.3	3.80	27.654			
1,200.0	1,197.4	1,192.8	1,192.5	2.3	2.1	161.95	-9.5	-69.3	121.0	116.8	4.16	29.089			
1,237.8	1,234.9	1,229.5	1,229.1	2.4	2.1	161.70	-11.4	-71.1	127.7	123.4	4.30	29.715			
1,300.0	1,296.4	1,290.0	1,289.4	2.6	2.3	161.23	-15.0	-74.3	139.3	134.7	4.53	30.758			
1,400.0	1,395.3	1,388.2	1,387.2	2.9	2.5	160.52	-21.0	-79.9	158.1	153.1	4.91	32.221			
1,500.0	1,494.2	1,486.4	1,485.1	3.2	2.7	159.96	-27.0	-85.4	176.9	171.6	5.29	33.455			
1,600.0	1,593.2	1,584.6	1,582.9	3.5	2.9	159.51	-33.0	-90.9	195.7	190.0	5.67	34.506			
1,700.0	1,692.1	1,682.8	1,680.8	3.8	3.1	159.14	-39.0	-96.5	214.5	208.4	6.06	35.411			
1,800.0	1,791.0	1,781.0	1,778.7	4.1	3.3	158.83	-45.0	-102.0	233.3	226.9	6.45	36.197			
1,900.0	1,890.0	1,879.2	1,876.5	4.4	3.5	158.56	-51.0	-107.6	252.2	245.3	6.84	36.885			
2,000.0	1,988.9	1,977.4	1,974.4	4.7	3.7	158.33	-57.1	-113.1	271.0	263.8	7.23	37.492			
2,100.0	2,087.8	2,075.6	2,072.3	5.0	3.9	158.13	-63.1	-118.6	289.9	282.2	7.62	38.031			
2,200.0	2,186.7	2,173.8	2,170.1	5.3	4.1	157.96	-69.1	-124.2	308.7	300.7	8.02	38.513			
2,300.0	2,285.7	2,272.0	2,268.0	5.6	4.4	157.80	-75.1	-129.7	327.6	319.2	8.41	38.946			
2,400.0	2,384.6	2,370.2	2,365.8	5.9	4.6	157.66	-81.1	-135.3	346.4	337.6	8.81	39.336			
2,500.0	2,483.5	2,468.4	2,463.7	6.2	4.8	157.54	-87.1	-140.8	365.3	356.1	9.20	39.691			
2,600.0	2,582.5	2,566.6	2,561.6	6.5	5.0	157.43	-93.2	-146.3	384.1	374.5	9.60	40.014			
2,700.0	2,681.4	2,664.8	2,659.4	6.8	5.2	157.33	-99.2	-151.9	403.0	393.0	10.00	40.310			
2,800.0	2,780.3	2,763.0	2,757.3	7.1	5.4	157.24	-105.2	-157.4	421.8	411.5	10.40	40.581			
2,900.0	2,879.3	2,861.2	2,855.2	7.4	5.7	157.15	-111.2	-163.0	440.7	429.9	10.79	40.831			
3,000.0	2,978.2	2,959.4	2,953.0	7.7	5.9	157.08	-117.2	-168.5	459.6	448.4	11.19	41.061			
3,100.0	3,077.1	3,057.6	3,050.9	8.0	6.1	157.00	-123.2	-174.0	478.4	466.8	11.59	41.275			
3,200.0	3,176.1	3,155.8	3,148.7	8.3	6.3	156.94	-129.2	-179.6	497.3	485.3	11.99	41.474			
3,300.0	3,275.0	3,254.0	3,246.6	8.7	6.5	156.88	-135.3	-185.1	516.2	503.8	12.39	41.659			
3,400.0	3,373.9	3,352.2	3,344.5	9.0	6.8	156.82	-141.3	-190.7	535.0	522.2	12.79	41.832			
3,500.0	3,472.9	3,450.4	3,442.3	9.3	7.0	156.77	-147.3	-196.2	553.9	540.7	13.19	41.993			
3,600.0	3,571.8	3,548.6	3,540.2	9.6	7.2	156.72	-153.3	-201.7	572.8	559.2	13.59	42.145			
3,700.0	3,670.7	3,646.8	3,638.1	9.9	7.4	156.67	-159.3	-207.3	591.6	577.6	13.99	42.287			
3,800.0	3,769.7	3,745.0	3,735.9	10.2	7.6	156.63	-165.3	-212.8	610.5	596.1	14.39	42.421			
3,900.0	3,868.6	3,843.2	3,833.8	10.5	7.9	156.59	-171.3	-218.4	629.4	614.6	14.79	42.548			
4,000.0	3,967.5	3,941.4	3,931.6	10.8	8.1	156.55	-177.4	-223.9	648.2	633.0	15.19	42.667			
4,100.0	4,066.5	4,039.6	4,029.5	11.1	8.3	156.51	-183.4	-229.4	667.1	651.5	15.59	42.780			
4,200.0	4,165.4	4,137.9	4,127.4	11.4	8.5	156.48	-189.4	-235.0	686.0	670.0	15.99	42.887			
4,300.0	4,264.3	4,236.1	4,225.2	11.7	8.8	156.45	-195.4	-240.5	704.8	688.4	16.40	42.988			
4,400.0	4,363.3	4,334.3	4,323.1	12.1	9.0	156.42	-201.4	-246.1	723.7	706.9	16.80	43.084			
4,500.0	4,462.2	4,432.5	4,421.0	12.4	9.2	156.39	-207.4	-251.6	742.6	725.4	17.20	43.176			
4,600.0	4,561.1	4,530.7	4,518.8	12.7	9.4	156.36	-213.4	-257.1	761.4	743.8	17.60	43.263			
4,700.0	4,660.1	4,628.9	4,616.7	13.0	9.6	156.33	-219.5	-262.7	780.3	762.3	18.00	43.346			
4,800.0	4,759.0	4,727.1	4,714.5	13.3	9.9	156.31	-225.5	-268.2	799.2	780.8	18.40	43.426			
4,900.0	4,857.9	4,825.3	4,812.4	13.6	10.1	156.28	-231.5	-273.8	818.0	799.2	18.80	43.501			
5,000.0	4,956.9	4,923.5	4,910.3	13.9	10.3	156.26	-237.5	-279.3	836.9	817.7	19.21	43.574			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	5,055.8	5,021.7	5,008.1	14.2	10.5	156.24	-243.5	-284.8	855.8	836.2	19.61	43.643			
5,200.0	5,154.7	5,119.9	5,106.0	14.5	10.7	156.22	-249.5	-290.4	874.6	854.6	20.01	43.710			
5,300.0	5,253.7	5,218.1	5,203.8	14.8	11.0	156.20	-255.5	-295.9	893.5	873.1	20.41	43.773			
5,400.0	5,352.6	5,316.3	5,301.7	15.1	11.2	156.18	-261.6	-301.5	912.4	891.6	20.81	43.834			
5,500.0	5,451.5	5,414.5	5,399.6	15.5	11.4	156.16	-267.6	-307.0	931.2	910.0	21.22	43.893			
5,600.0	5,550.5	5,512.7	5,497.4	15.8	11.6	156.14	-273.6	-312.5	950.1	928.5	21.62	43.950			
5,700.0	5,649.4	5,610.9	5,595.3	16.1	11.9	156.13	-279.6	-318.1	969.0	947.0	22.02	44.004			
5,800.0	5,748.3	5,709.1	5,693.2	16.4	12.1	156.11	-285.6	-323.6	987.8	965.4	22.42	44.056			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	-89.96	0.0	-50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-50.1	50.1	49.8	0.30	168.793		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-50.1	50.1	49.4	0.65	77.554		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-50.1	50.1	49.1	0.99	50.342		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-50.1	50.1	48.7	1.34	37.266 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	156.34	0.0	-50.1	50.9	49.2	1.69	30.052		
600.0	600.0	600.0	600.0	1.0	1.0	157.46	0.0	-50.1	53.3	51.2	2.04	26.089		
700.0	699.9	699.8	699.8	1.2	1.2	158.90	-0.2	-50.1	57.4	55.0	2.39	23.985		
800.0	799.7	799.4	799.4	1.4	1.4	159.33	-1.8	-50.6	63.4	60.7	2.74	23.111		
900.0	899.4	898.8	898.8	1.6	1.5	158.78	-5.2	-51.4	71.4	68.3	3.10	23.031 SF		
1,000.0	998.9	998.1	997.9	1.8	1.7	157.60	-10.2	-52.7	81.4	77.9	3.47	23.481		
1,100.0	1,098.3	1,097.4	1,097.0	2.1	1.9	156.68	-15.9	-54.1	93.1	89.3	3.84	24.261		
1,200.0	1,197.4	1,196.5	1,195.9	2.3	2.1	156.34	-21.5	-55.6	106.5	102.3	4.22	25.248		
1,237.8	1,234.9	1,233.9	1,233.3	2.4	2.2	156.32	-23.6	-56.1	111.9	107.6	4.36	25.666		
1,300.0	1,296.4	1,295.4	1,294.7	2.6	2.3	156.36	-27.1	-57.0	121.1	116.5	4.60	26.333		
1,400.0	1,395.3	1,394.3	1,393.4	2.9	2.5	156.41	-32.8	-58.4	135.8	130.9	4.98	27.259		
1,500.0	1,494.2	1,493.2	1,492.2	3.2	2.7	156.46	-38.4	-59.9	150.6	145.2	5.37	28.041		
1,600.0	1,593.2	1,592.1	1,590.9	3.5	2.9	156.49	-44.0	-61.3	165.3	159.6	5.76	28.710		
1,700.0	1,692.1	1,691.0	1,689.6	3.8	3.1	156.53	-49.7	-62.7	180.0	173.9	6.15	29.288		
1,800.0	1,791.0	1,790.0	1,788.4	4.1	3.3	156.55	-55.3	-64.2	194.8	188.2	6.54	29.791		
1,900.0	1,890.0	1,888.9	1,887.1	4.4	3.5	156.57	-60.9	-65.6	209.5	202.6	6.93	30.234		
2,000.0	1,988.9	1,987.8	1,985.8	4.7	3.7	156.59	-66.6	-67.0	224.3	216.9	7.32	30.626		
2,100.0	2,087.8	2,086.7	2,084.6	5.0	3.9	156.61	-72.2	-68.4	239.0	231.3	7.72	30.975		
2,200.0	2,186.7	2,185.6	2,183.3	5.3	4.1	156.63	-77.8	-69.9	253.7	245.6	8.11	31.288		
2,300.0	2,285.7	2,284.5	2,282.1	5.6	4.3	156.64	-83.4	-71.3	268.5	260.0	8.50	31.570		
2,400.0	2,384.6	2,383.4	2,380.8	5.9	4.5	156.65	-89.1	-72.7	283.2	274.3	8.90	31.826		
2,500.0	2,483.5	2,482.3	2,479.5	6.2	4.6	156.66	-94.7	-74.2	297.9	288.7	9.29	32.059		
2,600.0	2,582.5	2,581.2	2,578.3	6.5	4.8	156.67	-100.3	-75.6	312.7	303.0	9.69	32.272		
2,700.0	2,681.4	2,680.1	2,677.0	6.8	5.0	156.68	-106.0	-77.0	327.4	317.3	10.08	32.467		
2,800.0	2,780.3	2,779.0	2,775.7	7.1	5.2	156.69	-111.6	-78.5	342.2	331.7	10.48	32.646		
2,900.0	2,879.3	2,877.9	2,874.5	7.4	5.4	156.70	-117.2	-79.9	356.9	346.0	10.88	32.812		
3,000.0	2,978.2	2,976.8	2,973.2	7.7	5.6	156.70	-122.9	-81.3	371.6	360.4	11.27	32.965		
3,100.0	3,077.1	3,075.8	3,072.0	8.0	5.8	156.71	-128.5	-82.8	386.4	374.7	11.67	33.108		
3,200.0	3,176.1	3,174.7	3,170.7	8.3	6.0	156.72	-134.1	-84.2	401.1	389.0	12.07	33.241		
3,300.0	3,275.0	3,273.6	3,269.4	8.7	6.2	156.72	-139.8	-85.6	415.9	403.4	12.46	33.364		
3,400.0	3,373.9	3,372.5	3,368.2	9.0	6.4	156.73	-145.4	-87.1	430.6	417.7	12.86	33.480		
3,500.0	3,472.9	3,471.4	3,466.9	9.3	6.6	156.73	-151.0	-88.5	445.3	432.1	13.26	33.589		
3,600.0	3,571.8	3,570.3	3,565.6	9.6	6.8	156.74	-156.7	-89.9	460.1	446.4	13.66	33.691		
3,700.0	3,670.7	3,669.2	3,664.4	9.9	7.0	156.74	-162.3	-91.4	474.8	460.7	14.05	33.787		
3,800.0	3,769.7	3,768.1	3,763.1	10.2	7.2	156.74	-167.9	-92.8	489.5	475.1	14.45	33.877		
3,900.0	3,868.6	3,867.0	3,861.9	10.5	7.4	156.75	-173.6	-94.2	504.3	489.4	14.85	33.963		
4,000.0	3,967.5	3,965.9	3,960.6	10.8	7.6	156.75	-179.2	-95.7	519.0	503.8	15.25	34.044		
4,100.0	4,066.5	4,064.8	4,059.3	11.1	7.8	156.75	-184.8	-97.1	533.8	518.1	15.64	34.120		
4,200.0	4,165.4	4,163.7	4,158.1	11.4	8.0	156.76	-190.5	-98.5	548.5	532.4	16.04	34.193		
4,300.0	4,264.3	4,262.7	4,256.8	11.7	8.2	156.76	-196.1	-100.0	563.2	546.8	16.44	34.262		
4,400.0	4,363.3	4,361.6	4,355.5	12.1	8.4	156.76	-201.7	-101.4	578.0	561.1	16.84	34.327		
4,500.0	4,462.2	4,460.5	4,454.3	12.4	8.6	156.77	-207.4	-102.8	592.7	575.5	17.23	34.390		
4,600.0	4,561.1	4,559.4	4,553.0	12.7	8.8	156.77	-213.0	-104.3	607.4	589.8	17.63	34.449		
4,700.0	4,660.1	4,658.3	4,651.7	13.0	9.0	156.77	-218.6	-105.7	622.2	604.1	18.03	34.506		
4,800.0	4,759.0	4,757.2	4,750.5	13.3	9.2	156.77	-224.2	-107.1	636.9	618.5	18.43	34.560		
4,900.0	4,857.9	4,856.1	4,849.2	13.6	9.4	156.78	-229.9	-108.6	651.7	632.8	18.83	34.612		
5,000.0	4,956.9	4,955.0	4,948.0	13.9	9.6	156.78	-235.5	-110.0	666.4	647.2	19.23	34.662		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			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	5,055.8	5,053.9	5,046.7	14.2	9.8	156.78	-241.1	-111.4	681.1	661.5	19.62	34.709			
5,200.0	5,154.7	5,152.8	5,145.4	14.5	10.0	156.78	-246.8	-112.9	695.9	675.8	20.02	34.755			
5,300.0	5,253.7	5,251.7	5,244.2	14.8	10.2	156.78	-252.4	-114.3	710.6	690.2	20.42	34.799			
5,400.0	5,352.6	5,350.6	5,342.9	15.1	10.4	156.78	-258.0	-115.7	725.3	704.5	20.82	34.841			
5,500.0	5,451.5	5,449.5	5,441.6	15.5	10.6	156.79	-263.7	-117.1	740.1	718.9	21.22	34.881			
5,600.0	5,550.5	5,548.5	5,540.4	15.8	10.8	156.79	-269.3	-118.6	754.8	733.2	21.62	34.920			
5,700.0	5,649.4	5,647.4	5,639.1	16.1	11.0	156.79	-274.9	-120.0	769.6	747.5	22.01	34.958			
5,800.0	5,748.3	5,746.3	5,737.9	16.4	11.2	156.79	-280.6	-121.4	784.3	761.9	22.41	34.994			
5,900.0	5,847.3	5,845.2	5,836.6	16.7	11.4	156.79	-286.2	-122.9	799.0	776.2	22.81	35.028			
6,000.0	5,946.2	5,944.1	5,935.3	17.0	11.6	156.79	-291.8	-124.3	813.8	790.6	23.21	35.062			
6,100.0	6,045.1	6,043.0	6,034.1	17.3	11.8	156.80	-297.5	-125.7	828.5	804.9	23.61	35.094			
6,200.0	6,144.1	6,141.9	6,132.8	17.6	12.0	156.80	-303.1	-127.2	843.2	819.2	24.01	35.126			
6,300.0	6,243.0	6,240.8	6,231.5	17.9	12.2	156.80	-308.7	-128.6	858.0	833.6	24.41	35.156			
6,400.0	6,341.9	6,339.7	6,330.3	18.2	12.4	156.80	-314.4	-130.0	872.7	847.9	24.80	35.185			
6,500.0	6,440.9	6,438.6	6,429.0	18.5	12.6	156.80	-320.0	-131.5	887.5	862.3	25.20	35.213			
6,600.0	6,539.8	6,537.5	6,527.8	18.9	12.8	156.80	-325.6	-132.9	902.2	876.6	25.60	35.241			
6,700.0	6,638.7	6,636.4	6,626.5	19.2	13.0	156.80	-331.3	-134.3	916.9	890.9	26.00	35.267			
6,800.0	6,737.7	6,735.4	6,725.2	19.5	13.2	156.80	-336.9	-135.8	931.7	905.3	26.40	35.293			
6,810.4	6,748.0	6,745.7	6,735.5	19.5	13.2	156.80	-337.5	-135.9	933.2	906.8	26.44	35.296			
6,850.0	6,787.2	6,784.8	6,774.6	19.6	13.3	179.27	-339.7	-136.5	939.0	912.4	26.59	35.319			
6,900.0	6,836.7	6,834.0	6,823.7	19.7	13.4	-152.63	-342.5	-137.2	946.3	919.6	26.76	35.359			
6,950.0	6,886.0	6,882.9	6,872.5	19.8	13.5	-133.38	-345.3	-137.9	953.6	926.7	26.93	35.405			
7,000.0	6,934.8	6,931.0	6,920.6	19.9	13.6	-121.98	-348.0	-138.6	960.9	933.8	27.10	35.462			
7,050.0	6,982.9	6,978.7	6,968.1	20.0	13.7	-115.14	-350.6	-139.3	968.2	941.0	27.24	35.539			
7,100.0	7,030.1	7,027.6	7,017.0	20.0	13.8	-110.79	-350.8	-140.0	975.7	948.3	27.35	35.676			
7,150.0	7,076.1	7,077.6	7,066.9	20.1	13.8	-107.86	-347.6	-140.7	983.2	955.8	27.40	35.877			
7,200.0	7,120.8	7,128.8	7,117.7	20.1	13.8	-105.81	-340.7	-141.5	990.8	963.3	27.41	36.140			
7,250.0	7,163.8	7,181.4	7,169.1	20.1	13.8	-104.35	-329.9	-142.2	998.3	970.9	27.38	36.462			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													S32-T2N-R68W (File/Hwy 52) NEW - HWY 4O-32H-O268 - OH - PLAN #1		Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD															Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.02	0.0	-40.0	40.0							
100.0	100.0	100.0	100.0	0.1	0.1	-90.02	0.0	-40.0	40.0	39.7	0.30	134.846				
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-40.0	40.0	39.4	0.65	61.956				
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-40.0	40.0	39.0	0.99	40.217				
400.0	400.0	400.0	400.0	0.7	0.7	-90.02	0.0	-40.0	40.0	38.7	1.34	29.771	CC, ES			
500.0	500.0	500.0	500.0	0.8	0.8	156.38	0.0	-40.0	40.8	39.1	1.69	24.103				
600.0	600.0	600.0	600.0	1.0	1.0	157.76	0.0	-40.0	43.2	41.2	2.04	21.159				
700.0	699.9	700.2	700.2	1.2	1.2	158.80	-0.8	-39.7	46.9	44.5	2.39	19.593				
800.0	799.7	800.5	800.5	1.4	1.4	158.61	-3.2	-38.6	51.5	48.7	2.75	18.723				
900.0	899.4	900.7	900.6	1.6	1.6	157.49	-7.3	-36.9	56.9	53.8	3.11	18.294				
1,000.0	998.9	1,000.8	1,000.5	1.8	1.7	155.84	-12.8	-34.6	63.3	59.8	3.48	18.181				
1,100.0	1,098.3	1,100.5	1,099.9	2.1	1.9	154.84	-18.6	-32.2	71.2	67.3	3.86	18.441				
1,200.0	1,197.4	1,200.0	1,199.3	2.3	2.1	154.56	-24.5	-29.7	80.6	76.4	4.24	19.002				
1,237.8	1,234.9	1,237.6	1,236.8	2.4	2.2	154.60	-26.7	-28.8	84.6	80.2	4.39	19.278				
1,300.0	1,296.4	1,299.4	1,298.5	2.6	2.3	154.74	-30.3	-27.3	91.4	86.8	4.63	19.732				
1,400.0	1,395.3	1,398.8	1,397.7	2.9	2.5	154.93	-36.1	-24.8	102.2	97.2	5.02	20.363				
1,500.0	1,494.2	1,498.3	1,496.9	3.2	2.7	155.08	-41.9	-22.4	113.1	107.7	5.41	20.895				
1,600.0	1,593.2	1,597.7	1,596.1	3.5	2.9	155.20	-47.7	-19.9	123.9	118.1	5.81	21.350				
1,700.0	1,692.1	1,697.1	1,695.3	3.8	3.1	155.30	-53.5	-17.5	134.8	128.6	6.20	21.743				
1,800.0	1,791.0	1,796.5	1,794.6	4.1	3.3	155.39	-59.3	-15.0	145.6	139.1	6.59	22.086				
1,900.0	1,890.0	1,895.9	1,893.8	4.4	3.5	155.47	-65.1	-12.6	156.5	149.5	6.99	22.387				
2,000.0	1,988.9	1,995.3	1,993.0	4.7	3.7	155.54	-71.0	-10.1	167.4	160.0	7.39	22.654				
2,100.0	2,087.8	2,094.7	2,092.2	5.0	3.9	155.59	-76.8	-7.7	178.2	170.4	7.78	22.892				
2,200.0	2,186.7	2,194.1	2,191.4	5.3	4.1	155.65	-82.6	-5.2	189.1	180.9	8.18	23.105				
2,300.0	2,285.7	2,293.5	2,290.6	5.6	4.3	155.69	-88.4	-2.8	199.9	191.3	8.58	23.298				
2,400.0	2,384.6	2,392.9	2,389.8	5.9	4.5	155.73	-94.2	-0.3	210.8	201.8	8.98	23.472				
2,500.0	2,483.5	2,492.3	2,489.0	6.2	4.7	155.77	-100.0	2.1	221.6	212.3	9.38	23.631				
2,600.0	2,582.5	2,591.8	2,588.2	6.5	4.9	155.80	-105.8	4.6	232.5	222.7	9.78	23.776				
2,700.0	2,681.4	2,691.2	2,687.4	6.8	5.1	155.83	-111.6	7.0	243.3	233.2	10.18	23.909				
2,800.0	2,780.3	2,790.6	2,786.6	7.1	5.4	155.86	-117.4	9.5	254.2	243.6	10.58	24.032				
2,900.0	2,879.3	2,890.0	2,885.9	7.4	5.6	155.89	-123.3	11.9	265.0	254.1	10.98	24.145				
3,000.0	2,978.2	2,989.4	2,985.1	7.7	5.8	155.91	-129.1	14.4	275.9	264.5	11.38	24.250				
3,100.0	3,077.1	3,088.8	3,084.3	8.0	6.0	155.93	-134.9	16.8	286.8	275.0	11.78	24.348				
3,200.0	3,176.1	3,188.2	3,183.5	8.3	6.2	155.95	-140.7	19.3	297.6	285.4	12.18	24.438				
3,300.0	3,275.0	3,287.6	3,282.7	8.7	6.4	155.97	-146.5	21.7	308.5	295.9	12.58	24.523				
3,400.0	3,373.9	3,387.0	3,381.9	9.0	6.6	155.99	-152.3	24.2	319.3	306.3	12.98	24.602				
3,500.0	3,472.9	3,486.4	3,481.1	9.3	6.8	156.01	-158.1	26.6	330.2	316.8	13.38	24.677				
3,600.0	3,571.8	3,585.8	3,580.3	9.6	7.0	156.02	-163.9	29.1	341.0	327.3	13.78	24.747				
3,700.0	3,670.7	3,685.3	3,679.5	9.9	7.2	156.04	-169.7	31.5	351.9	337.7	14.18	24.812				
3,800.0	3,769.7	3,784.7	3,778.7	10.2	7.4	156.05	-175.6	34.0	362.7	348.2	14.58	24.874				
3,900.0	3,868.6	3,884.1	3,877.9	10.5	7.6	156.06	-181.4	36.4	373.6	358.6	14.98	24.933				
4,000.0	3,967.5	3,983.5	3,977.2	10.8	7.8	156.08	-187.2	38.9	384.5	369.1	15.39	24.988				
4,100.0	4,066.5	4,082.9	4,076.4	11.1	8.0	156.09	-193.0	41.3	395.3	379.5	15.79	25.041				
4,200.0	4,165.4	4,182.3	4,175.6	11.4	8.2	156.10	-198.8	43.8	406.2	390.0	16.19	25.091				
4,300.0	4,264.3	4,281.7	4,274.8	11.7	8.4	156.11	-204.6	46.2	417.0	400.4	16.59	25.138				
4,400.0	4,363.3	4,381.1	4,374.0	12.1	8.6	156.12	-210.4	48.7	427.9	410.9	16.99	25.183				
4,500.0	4,462.2	4,480.5	4,473.2	12.4	8.8	156.13	-216.2	51.1	438.7	421.3	17.39	25.226				
4,600.0	4,561.1	4,579.9	4,572.4	12.7	9.0	156.14	-222.0	53.6	449.6	431.8	17.79	25.267				
4,700.0	4,660.1	4,679.3	4,671.6	13.0	9.2	156.14	-227.9	56.0	460.5	442.3	18.20	25.306				
4,800.0	4,759.0	4,778.8	4,770.8	13.3	9.4	156.15	-233.7	58.5	471.3	452.7	18.60	25.343				
4,900.0	4,857.9	4,878.2	4,870.0	13.6	9.6	156.16	-239.5	60.9	482.2	463.2	19.00	25.378				
5,000.0	4,956.9	4,977.6	4,969.2	13.9	9.9	156.17	-245.3	63.4	493.0	473.6	19.40	25.413				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4O-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 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	5,055.8	5,077.0	5,068.4	14.2	10.1	156.17	-251.1	65.8	503.9	484.1	19.80	25.445		
5,200.0	5,154.7	5,176.4	5,167.7	14.5	10.3	156.18	-256.9	68.3	514.7	494.5	20.20	25.477		
5,300.0	5,253.7	5,275.8	5,266.9	14.8	10.5	156.19	-262.7	70.7	525.6	505.0	20.61	25.507		
5,400.0	5,352.6	5,375.2	5,366.1	15.1	10.7	156.19	-268.5	73.2	536.4	515.4	21.01	25.536		
5,500.0	5,451.5	5,474.6	5,465.3	15.5	10.9	156.20	-274.3	75.6	547.3	525.9	21.41	25.563		
5,600.0	5,550.5	5,574.0	5,564.5	15.8	11.1	156.21	-280.2	78.1	558.2	536.3	21.81	25.590		
5,700.0	5,649.4	5,673.4	5,663.7	16.1	11.3	156.21	-286.0	80.5	569.0	546.8	22.21	25.616		
5,800.0	5,748.3	5,772.8	5,762.9	16.4	11.5	156.22	-291.8	83.0	579.9	557.2	22.61	25.641		
5,900.0	5,847.3	5,872.2	5,862.1	16.7	11.7	156.22	-297.6	85.4	590.7	567.7	23.02	25.665		
6,000.0	5,946.2	5,971.7	5,961.3	17.0	11.9	156.23	-303.4	87.9	601.6	578.2	23.42	25.688		
6,100.0	6,045.1	6,071.1	6,060.5	17.3	12.1	156.23	-309.2	90.3	612.4	588.6	23.82	25.710		
6,200.0	6,144.1	6,170.5	6,159.7	17.6	12.3	156.24	-315.0	92.8	623.3	599.1	24.22	25.731		
6,300.0	6,243.0	6,269.9	6,259.0	17.9	12.5	156.24	-320.8	95.2	634.1	609.5	24.62	25.752		
6,400.0	6,341.9	6,369.3	6,358.2	18.2	12.7	156.24	-326.7	97.7	645.0	620.0	25.03	25.772		
6,500.0	6,440.9	6,468.7	6,457.4	18.5	12.9	156.25	-332.5	100.1	655.9	630.4	25.43	25.792		
6,600.0	6,539.8	6,568.1	6,556.6	18.9	13.1	156.25	-338.3	102.6	666.7	640.9	25.83	25.811		
6,700.0	6,638.7	6,667.5	6,655.8	19.2	13.3	156.26	-344.1	105.0	677.6	651.3	26.23	25.829		
6,800.0	6,737.7	6,765.9	6,754.0	19.5	13.5	156.66	-345.0	107.4	688.5	662.0	26.52	25.965		
6,810.4	6,748.0	6,776.0	6,764.1	19.5	13.5	156.76	-344.4	107.7	689.6	663.1	26.53	25.994		
6,850.0	6,787.2	6,814.2	6,802.1	19.6	13.5	179.58	-340.6	108.6	694.0	667.5	26.56	26.134		
6,900.0	6,836.7	6,862.1	6,849.4	19.7	13.5	-151.68	-333.1	109.8	699.7	673.1	26.55	26.355		
6,950.0	6,886.0	6,909.7	6,895.8	19.8	13.5	-131.63	-322.5	110.9	705.3	678.8	26.50	26.615		
7,000.0	6,934.8	6,956.9	6,941.0	19.9	13.5	-119.27	-308.9	112.0	710.9	684.5	26.42	26.908		
7,050.0	6,982.9	7,003.7	6,984.9	20.0	13.4	-111.33	-292.6	113.1	716.5	690.2	26.32	27.226		
7,100.0	7,030.1	7,050.0	7,027.0	20.0	13.4	-105.85	-273.6	114.2	722.0	695.8	26.20	27.557		
7,150.0	7,076.1	7,096.6	7,068.2	20.1	13.3	-101.82	-251.9	115.2	727.4	701.3	26.07	27.897		
7,200.0	7,120.8	7,142.6	7,107.4	20.1	13.3	-98.72	-227.8	116.1	732.7	706.7	25.95	28.229		
7,250.0	7,163.8	7,188.3	7,144.7	20.1	13.2	-96.23	-201.4	117.1	737.7	711.9	25.85	28.542		
7,300.0	7,205.0	7,233.9	7,180.2	20.2	13.2	-94.19	-172.8	117.9	742.6	716.8	25.76	28.825		
7,350.0	7,244.1	7,279.2	7,213.5	20.2	13.2	-92.49	-142.1	118.8	747.3	721.5	25.71	29.063		
7,400.0	7,281.1	7,324.4	7,244.8	20.2	13.2	-91.04	-109.6	119.5	751.6	725.9	25.70	29.245		
7,450.0	7,315.7	7,369.4	7,273.9	20.3	13.2	-89.81	-75.2	120.3	755.8	730.0	25.74	29.359		
7,500.0	7,347.7	7,414.3	7,300.6	20.3	13.2	-88.75	-39.2	120.9	759.6	733.7	25.84	29.393		
7,550.0	7,377.0	7,459.0	7,325.0	20.4	13.3	-87.84	-1.7	121.5	763.0	737.0	26.00	29.347		
7,600.0	7,403.4	7,503.7	7,347.0	20.5	13.4	-87.08	37.1	122.1	766.2	739.9	26.23	29.207		
7,650.0	7,426.8	7,550.0	7,367.2	20.6	13.6	-86.43	78.8	122.6	768.9	742.4	26.55	28.959		
7,700.0	7,447.2	7,592.7	7,383.3	20.8	13.8	-85.90	118.3	123.0	771.3	744.4	26.92	28.648		
7,750.0	7,464.3	7,637.1	7,397.7	20.9	14.0	-85.47	160.4	123.3	773.3	745.9	27.39	28.237		
7,800.0	7,478.2	7,681.5	7,409.3	21.2	14.2	-85.15	203.2	123.6	774.9	747.0	27.92	27.751		
7,850.0	7,488.7	7,725.9	7,418.3	21.4	14.5	-84.92	246.7	123.8	776.1	747.6	28.54	27.198		
7,900.0	7,495.8	7,770.2	7,424.6	21.6	14.9	-84.78	290.6	124.0	776.9	747.7	29.22	26.591		
7,950.0	7,499.5	7,814.6	7,428.1	21.9	15.3	-84.74	334.8	124.1	777.3	747.3	29.96	25.941		
7,978.1	7,500.0	7,839.5	7,428.9	22.1	15.5	-84.75	359.7	124.1	777.3	746.9	30.41	25.562		
8,000.0	7,500.0	7,860.2	7,429.0	22.2	15.7	-84.76	380.3	124.1	777.3	746.5	30.79	25.244		
8,004.7	7,500.0	7,864.9	7,429.0	22.3	15.7	-84.76	385.0	124.1	777.3	746.4	30.88	25.168		
8,100.0	7,500.0	7,960.2	7,429.0	23.0	16.7	-84.76	480.3	124.1	777.3	744.4	32.83	23.676		
8,200.0	7,500.0	8,060.2	7,429.0	23.8	17.8	-84.76	580.3	124.1	777.3	742.2	35.09	22.153		
8,300.0	7,500.0	8,160.2	7,429.0	24.7	19.0	-84.76	680.3	124.1	777.3	739.7	37.53	20.709		
8,400.0	7,500.0	8,260.2	7,429.0	25.7	20.3	-84.76	780.3	124.1	777.3	737.1	40.13	19.367		
8,500.0	7,500.0	8,360.2	7,429.0	26.8	21.7	-84.76	880.3	124.1	777.3	734.4	42.86	18.134		
8,600.0	7,500.0	8,460.2	7,429.0	27.9	23.1	-84.76	980.3	124.1	777.3	731.6	45.70	17.009		
8,700.0	7,500.0	8,560.2	7,429.0	29.2	24.5	-84.76	1,080.3	124.1	777.3	728.7	48.62	15.988		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4O-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,500.0	8,660.2	7,429.0	30.4	26.0	-84.76	1,180.3	124.1	777.3	725.7	51.61	15.061		
8,900.0	7,500.0	8,760.2	7,429.0	31.7	27.5	-84.76	1,280.3	124.1	777.3	722.6	54.66	14.221		
9,000.0	7,500.0	8,860.2	7,429.0	33.1	29.1	-84.76	1,380.3	124.1	777.3	719.5	57.76	13.457		
9,100.0	7,500.0	8,960.2	7,429.0	34.5	30.7	-84.76	1,480.3	124.1	777.3	716.4	60.90	12.762		
9,200.0	7,500.0	9,060.2	7,429.0	35.9	32.3	-84.76	1,580.3	124.1	777.3	713.2	64.08	12.129		
9,300.0	7,500.0	9,160.2	7,429.0	37.4	33.9	-84.76	1,680.3	124.1	777.3	710.0	67.29	11.550		
9,400.0	7,500.0	9,260.2	7,429.0	38.8	35.5	-84.76	1,780.3	124.1	777.3	706.7	70.53	11.020		
9,500.0	7,500.0	9,360.2	7,429.0	40.3	37.1	-84.76	1,880.3	124.1	777.3	703.5	73.79	10.533		
9,600.0	7,500.0	9,460.2	7,429.0	41.8	38.8	-84.76	1,980.3	124.1	777.3	700.2	77.07	10.085		
9,700.0	7,500.0	9,560.2	7,429.0	43.4	40.4	-84.76	2,080.3	124.1	777.3	696.9	80.37	9.671		
9,800.0	7,500.0	9,660.2	7,429.0	44.9	42.1	-84.76	2,180.3	124.1	777.3	693.6	83.69	9.288		
9,900.0	7,500.0	9,760.2	7,429.0	46.5	43.7	-84.76	2,280.3	124.1	777.3	690.3	87.02	8.932		
10,000.0	7,500.0	9,860.2	7,429.0	48.1	45.4	-84.76	2,380.3	124.1	777.3	686.9	90.36	8.602		
10,100.0	7,500.0	9,960.2	7,429.0	49.7	47.1	-84.76	2,480.3	124.1	777.3	683.6	93.71	8.294		
10,200.0	7,500.0	10,060.2	7,429.0	51.3	48.8	-84.76	2,580.3	124.1	777.3	680.2	97.08	8.007		
10,300.0	7,500.0	10,160.2	7,429.0	52.9	50.5	-84.76	2,680.3	124.1	777.3	676.8	100.45	7.738		
10,400.0	7,500.0	10,260.2	7,429.0	54.5	52.2	-84.76	2,780.3	124.1	777.3	673.4	103.83	7.486		
10,500.0	7,500.0	10,360.2	7,429.0	56.1	53.9	-84.76	2,880.3	124.1	777.3	670.1	107.21	7.250		
10,600.0	7,500.0	10,460.2	7,429.0	57.8	55.6	-84.76	2,980.3	124.1	777.3	666.7	110.61	7.027		
10,700.0	7,500.0	10,560.2	7,429.0	59.4	57.3	-84.76	3,080.3	124.1	777.3	663.3	114.01	6.818		
10,800.0	7,500.0	10,660.2	7,429.0	61.1	59.0	-84.76	3,180.3	124.1	777.3	659.9	117.41	6.620		
10,900.0	7,500.0	10,760.2	7,429.0	62.7	60.7	-84.76	3,280.3	124.1	777.3	656.4	120.82	6.433		
11,000.0	7,500.0	10,860.2	7,429.0	64.4	62.4	-84.76	3,380.3	124.1	777.3	653.0	124.24	6.256		
11,100.0	7,500.0	10,960.2	7,429.0	66.0	64.1	-84.76	3,480.3	124.1	777.3	649.6	127.66	6.089		
11,200.0	7,500.0	11,060.2	7,429.0	67.7	65.8	-84.76	3,580.3	124.1	777.3	646.2	131.08	5.930		
11,300.0	7,500.0	11,160.2	7,429.0	69.4	67.6	-84.76	3,680.3	124.1	777.3	642.8	134.51	5.779		
11,400.0	7,500.0	11,260.2	7,429.0	71.1	69.3	-84.76	3,780.3	124.1	777.3	639.3	137.94	5.635		
11,500.0	7,500.0	11,360.2	7,429.0	72.7	71.0	-84.76	3,880.3	124.1	777.3	635.9	141.37	5.498		
11,600.0	7,500.0	11,460.2	7,429.0	74.4	72.7	-84.76	3,980.3	124.1	777.3	632.5	144.81	5.368		
11,700.0	7,500.0	11,560.2	7,429.0	76.1	74.5	-84.76	4,080.3	124.1	777.3	629.0	148.24	5.243		
11,767.2	7,500.0	11,627.4	7,429.0	77.2	75.6	-84.76	4,147.5	124.1	777.3	626.7	150.56	5.163 SF		
11,800.0	7,500.0	11,634.9	7,429.0	77.8	75.7	-84.76	4,155.1	124.0	777.8	627.2	150.58	5.165		
11,878.1	7,500.0	11,650.0	7,429.0	79.1	76.0	-84.77	4,170.1	122.8	783.6	633.7	149.90	5.227		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	-89.90	0.1	-29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.90	0.1	-29.9	29.9	29.6	0.30	100.899		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.1	-29.9	29.9	29.3	0.65	46.359		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.1	-29.9	29.9	28.9	0.99	30.093		
400.0	400.0	400.0	400.0	0.7	0.7	-89.90	0.1	-29.9	29.9	28.6	1.34	22.276	CC, ES	
500.0	500.0	500.0	500.0	0.8	0.8	156.65	0.1	-29.9	30.7	29.0	1.69	18.155		
600.0	600.0	600.2	600.2	1.0	1.0	158.17	-0.1	-29.8	33.0	31.0	2.04	16.156		
700.0	699.9	700.5	700.5	1.2	1.2	158.73	-1.4	-28.6	35.8	33.5	2.39	14.971		
800.0	799.7	800.9	800.9	1.4	1.4	158.29	-4.1	-26.3	39.1	36.3	2.75	14.219		
900.0	899.4	901.4	901.1	1.6	1.6	157.08	-8.0	-22.8	42.8	39.6	3.11	13.744		
1,000.0	998.9	1,001.8	1,001.3	1.8	1.8	155.32	-13.3	-18.2	46.9	43.4	3.48	13.452		
1,100.0	1,098.3	1,101.6	1,100.9	2.1	2.0	154.00	-19.2	-13.0	52.1	48.2	3.87	13.464		
1,200.0	1,197.4	1,201.4	1,200.3	2.3	2.2	153.67	-25.0	-7.8	58.8	54.6	4.25	13.827		
1,237.8	1,234.9	1,239.1	1,237.9	2.4	2.2	153.75	-27.2	-5.9	61.8	57.4	4.40	14.038		
1,300.0	1,296.4	1,301.1	1,299.7	2.6	2.4	153.97	-30.9	-2.7	66.9	62.2	4.64	14.396		
1,400.0	1,395.3	1,400.7	1,399.1	2.9	2.6	154.25	-36.7	2.5	75.0	70.0	5.04	14.893		
1,500.0	1,494.2	1,500.4	1,498.4	3.2	2.8	154.48	-42.5	7.7	83.1	77.7	5.43	15.314		
1,600.0	1,593.2	1,600.1	1,597.8	3.5	3.0	154.67	-48.4	12.8	91.3	85.5	5.82	15.675		
1,700.0	1,692.1	1,699.7	1,697.1	3.8	3.2	154.82	-54.2	18.0	99.4	93.2	6.22	15.987		
1,800.0	1,791.0	1,799.4	1,796.5	4.1	3.4	154.96	-60.1	23.2	107.6	101.0	6.62	16.260		
1,900.0	1,890.0	1,899.1	1,895.9	4.4	3.7	155.07	-65.9	28.3	115.7	108.7	7.01	16.500		
2,000.0	1,988.9	1,998.7	1,995.2	4.7	3.9	155.17	-71.8	33.5	123.9	116.5	7.41	16.713		
2,100.0	2,087.8	2,098.4	2,094.6	5.0	4.1	155.26	-77.6	38.6	132.0	124.2	7.81	16.903		
2,200.0	2,186.7	2,198.1	2,193.9	5.3	4.3	155.33	-83.5	43.8	140.2	132.0	8.21	17.074		
2,300.0	2,285.7	2,297.8	2,293.3	5.6	4.5	155.40	-89.3	49.0	148.3	139.7	8.61	17.228		
2,400.0	2,384.6	2,397.4	2,392.7	5.9	4.7	155.46	-95.2	54.1	156.5	147.5	9.01	17.368		
2,500.0	2,483.5	2,497.1	2,492.0	6.2	5.0	155.52	-101.0	59.3	164.6	155.2	9.41	17.496		
2,600.0	2,582.5	2,596.8	2,591.4	6.5	5.2	155.57	-106.9	64.4	172.8	163.0	9.81	17.612		
2,700.0	2,681.4	2,696.4	2,690.8	6.8	5.4	155.61	-112.7	69.6	180.9	170.7	10.21	17.720		
2,800.0	2,780.3	2,796.1	2,790.1	7.1	5.6	155.65	-118.6	74.8	189.1	178.5	10.61	17.818		
2,900.0	2,879.3	2,895.8	2,889.5	7.4	5.8	155.69	-124.4	79.9	197.2	186.2	11.01	17.910		
3,000.0	2,978.2	2,995.4	2,988.8	7.7	6.1	155.73	-130.2	85.1	205.4	194.0	11.41	17.994		
3,100.0	3,077.1	3,095.1	3,088.2	8.0	6.3	155.76	-136.1	90.3	213.5	201.7	11.81	18.073		
3,200.0	3,176.1	3,194.8	3,187.6	8.3	6.5	155.79	-141.9	95.4	221.7	209.5	12.22	18.146		
3,300.0	3,275.0	3,294.4	3,286.9	8.7	6.7	155.82	-147.8	100.6	229.8	217.2	12.62	18.215		
3,400.0	3,373.9	3,394.1	3,386.3	9.0	6.9	155.84	-153.6	105.7	238.0	225.0	13.02	18.279		
3,500.0	3,472.9	3,493.8	3,485.6	9.3	7.2	155.87	-159.5	110.9	246.1	232.7	13.42	18.339		
3,600.0	3,571.8	3,593.4	3,585.0	9.6	7.4	155.89	-165.3	116.1	254.3	240.5	13.82	18.396		
3,700.0	3,670.7	3,693.1	3,684.4	9.9	7.6	155.91	-171.2	121.2	262.4	248.2	14.22	18.449		
3,800.0	3,769.7	3,792.8	3,783.7	10.2	7.8	155.93	-177.0	126.4	270.6	256.0	14.63	18.499		
3,900.0	3,868.6	3,892.4	3,883.1	10.5	8.0	155.95	-182.9	131.5	278.7	263.7	15.03	18.547		
4,000.0	3,967.5	3,992.1	3,982.5	10.8	8.3	155.97	-188.7	136.7	286.9	271.5	15.43	18.592		
4,100.0	4,066.5	4,091.8	4,081.8	11.1	8.5	155.99	-194.6	141.9	295.0	279.2	15.83	18.635		
4,200.0	4,165.4	4,191.4	4,181.2	11.4	8.7	156.00	-200.4	147.0	303.2	287.0	16.23	18.675		
4,300.0	4,264.3	4,291.1	4,280.5	11.7	8.9	156.02	-206.3	152.2	311.3	294.7	16.64	18.713		
4,400.0	4,363.3	4,390.8	4,379.9	12.1	9.1	156.03	-212.1	157.4	319.5	302.4	17.04	18.750		
4,500.0	4,462.2	4,490.4	4,479.3	12.4	9.4	156.04	-218.0	162.5	327.6	310.2	17.44	18.785		
4,600.0	4,561.1	4,590.1	4,578.6	12.7	9.6	156.06	-223.8	167.7	335.8	317.9	17.84	18.818		
4,700.0	4,660.1	4,689.8	4,678.0	13.0	9.8	156.07	-229.6	172.8	343.9	325.7	18.25	18.850		
4,800.0	4,759.0	4,789.4	4,777.3	13.3	10.0	156.08	-235.5	178.0	352.1	333.4	18.65	18.880		
4,900.0	4,857.9	4,889.1	4,876.7	13.6	10.2	156.09	-241.3	183.2	360.2	341.2	19.05	18.909		
5,000.0	4,956.9	4,988.8	4,976.1	13.9	10.5	156.10	-247.2	188.3	368.4	348.9	19.45	18.937		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 ft	
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1														Offset Well Error:		0.0 ft
Survey Program: 0-Geolink MWD																
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,100.0	5,055.8	5,088.4	5,075.4	14.2	10.7	156.11	-253.0	193.5	376.5	356.7	19.86	18.964				
5,200.0	5,154.7	5,188.1	5,174.8	14.5	10.9	156.12	-258.9	198.7	384.7	364.4	20.26	18.989				
5,300.0	5,253.7	5,287.8	5,274.2	14.8	11.1	156.13	-264.7	203.8	392.8	372.2	20.66	19.014				
5,400.0	5,352.6	5,387.4	5,373.5	15.1	11.3	156.14	-270.6	209.0	401.0	379.9	21.06	19.037				
5,500.0	5,451.5	5,487.1	5,472.9	15.5	11.6	156.15	-276.4	214.1	409.1	387.7	21.47	19.060				
5,600.0	5,550.5	5,586.8	5,572.2	15.8	11.8	156.16	-282.3	219.3	417.3	395.4	21.87	19.082				
5,700.0	5,649.4	5,686.4	5,671.6	16.1	12.0	156.17	-288.1	224.5	425.4	403.2	22.27	19.103				
5,800.0	5,748.3	5,786.1	5,771.0	16.4	12.2	156.17	-294.0	229.6	433.6	410.9	22.67	19.123				
5,900.0	5,847.3	5,885.8	5,870.3	16.7	12.4	156.18	-299.8	234.8	441.7	418.7	23.08	19.143				
6,000.0	5,946.2	5,985.4	5,969.7	17.0	12.7	156.19	-305.7	239.9	449.9	426.4	23.48	19.162				
6,100.0	6,045.1	6,085.1	6,069.1	17.3	12.9	156.20	-311.5	245.1	458.0	434.2	23.88	19.180				
6,200.0	6,144.1	6,184.8	6,168.4	17.6	13.1	156.20	-317.3	250.3	466.2	441.9	24.28	19.197				
6,300.0	6,243.0	6,284.4	6,267.8	17.9	13.3	156.21	-323.2	255.4	474.3	449.7	24.69	19.214				
6,400.0	6,341.9	6,384.1	6,367.1	18.2	13.5	156.21	-329.0	260.6	482.5	457.4	25.09	19.231				
6,500.0	6,440.9	6,483.8	6,466.5	18.5	13.8	156.22	-334.9	265.8	490.7	465.2	25.49	19.247				
6,600.0	6,539.8	6,583.4	6,565.9	18.9	14.0	156.23	-340.7	270.9	498.8	472.9	25.90	19.262				
6,700.0	6,638.7	6,683.1	6,665.2	19.2	14.2	156.23	-346.6	276.1	507.0	480.7	26.30	19.277				
6,800.0	6,737.7	6,782.4	6,764.2	19.5	14.4	156.28	-352.1	281.2	515.1	488.4	26.68	19.304				
6,810.4	6,748.0	6,792.6	6,774.4	19.5	14.4	156.32	-352.3	281.7	516.0	489.3	26.71	19.315				
6,850.0	6,787.2	6,831.2	6,813.0	19.6	14.5	178.83	-351.8	283.7	519.3	492.5	26.79	19.384				
6,900.0	6,836.7	6,879.9	6,861.4	19.7	14.5	-152.81	-348.1	286.1	523.5	496.7	26.84	19.506				
6,950.0	6,886.0	6,928.4	6,909.4	19.8	14.6	-133.12	-341.3	288.4	527.8	500.9	26.84	19.662				
7,000.0	6,934.8	6,976.8	6,956.7	19.9	14.6	-121.11	-331.2	290.7	532.1	505.3	26.81	19.849				
7,050.0	6,982.9	7,025.1	7,003.1	20.0	14.5	-113.51	-318.0	292.8	536.4	509.6	26.74	20.061				
7,100.0	7,030.1	7,073.2	7,048.3	20.0	14.5	-108.35	-301.7	294.8	540.6	514.0	26.64	20.293				
7,150.0	7,076.1	7,121.3	7,092.3	20.1	14.5	-104.64	-282.5	296.7	544.9	518.3	26.53	20.539				
7,200.0	7,120.8	7,169.3	7,134.8	20.1	14.4	-101.82	-260.4	298.5	549.0	522.6	26.41	20.791				
7,250.0	7,163.8	7,217.2	7,175.7	20.1	14.4	-99.61	-235.5	300.1	553.1	526.8	26.29	21.041				
7,300.0	7,205.0	7,265.0	7,214.8	20.2	14.3	-97.83	-208.0	301.6	557.1	530.9	26.18	21.280				
7,350.0	7,244.1	7,312.8	7,252.0	20.2	14.3	-96.36	-178.0	303.0	560.9	534.8	26.09	21.498				
7,400.0	7,281.1	7,360.5	7,287.0	20.2	14.3	-95.14	-145.7	304.2	564.6	538.6	26.04	21.683				
7,450.0	7,315.7	7,408.2	7,319.8	20.3	14.3	-94.10	-111.0	305.3	568.2	542.1	26.03	21.827				
7,500.0	7,347.7	7,455.8	7,350.1	20.3	14.3	-93.23	-74.3	306.2	571.5	545.5	26.08	21.917				
7,550.0	7,377.0	7,503.5	7,378.0	20.4	14.3	-92.49	-35.7	306.9	574.7	548.5	26.19	21.946				
7,600.0	7,403.4	7,550.0	7,402.7	20.5	14.4	-91.86	3.7	307.5	577.6	551.3	26.36	21.912				
7,650.0	7,426.8	7,598.8	7,425.8	20.6	14.5	-91.34	46.7	307.9	580.4	553.7	26.63	21.794				
7,700.0	7,447.2	7,646.5	7,445.5	20.8	14.7	-90.91	90.1	308.2	582.8	555.9	26.98	21.606				
7,750.0	7,464.3	7,694.2	7,462.2	20.9	14.9	-90.57	134.7	308.3	585.1	557.7	27.41	21.345				
7,800.0	7,478.2	7,741.9	7,476.0	21.2	15.1	-90.31	180.4	308.2	587.0	559.1	27.93	21.017				
7,850.0	7,488.7	7,789.7	7,486.7	21.4	15.4	-90.12	227.0	307.9	588.7	560.2	28.54	20.629				
7,900.0	7,495.8	7,837.5	7,494.3	21.6	15.8	-90.01	274.2	307.5	590.1	560.9	29.23	20.191				
7,950.0	7,499.5	7,885.4	7,498.7	21.9	16.1	-89.97	321.9	306.9	591.3	561.3	30.00	19.712				
7,978.1	7,500.0	7,912.3	7,499.8	22.1	16.3	-89.98	348.7	306.4	591.8	561.3	30.45	19.431				
8,000.0	7,500.0	7,933.6	7,500.0	22.2	16.5	-90.00	370.0	306.1	592.1	561.3	30.84	19.201				
8,100.0	7,500.0	8,033.6	7,500.0	23.0	17.4	-90.00	470.0	304.3	593.9	561.0	32.83	18.090				
8,200.0	7,500.0	8,133.5	7,500.0	23.8	18.5	-90.00	569.9	302.6	595.6	560.6	35.05	16.995				
8,300.0	7,500.0	8,233.5	7,500.0	24.7	19.6	-90.00	669.9	300.8	597.4	559.9	37.46	15.946				
8,400.0	7,500.0	8,333.5	7,500.0	25.7	20.9	-90.00	769.9	299.1	599.1	559.1	40.04	14.963				
8,500.0	7,500.0	8,433.5	7,500.0	26.8	22.2	-90.00	869.9	297.4	600.9	558.1	42.75	14.055				
8,600.0	7,500.0	8,533.5	7,500.0	27.9	23.5	-90.00	969.8	295.6	602.6	557.0	45.57	13.224				
8,700.0	7,500.0	8,633.5	7,500.0	29.2	24.9	-90.00	1,069.8	293.9	604.3	555.9	48.48	12.466				
8,800.0	7,500.0	8,733.4	7,500.0	30.4	26.4	-90.00	1,169.8	292.1	606.1	554.6	51.46	11.777				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,500.0	8,833.4	7,500.0	31.7	27.9	-90.00	1,269.7	290.4	607.8	553.3	54.51	11.151		
9,000.0	7,500.0	8,933.4	7,500.0	33.1	29.4	-90.00	1,369.7	288.6	609.6	552.0	57.61	10.581		
9,100.0	7,500.0	9,033.4	7,500.0	34.5	30.9	-90.00	1,469.7	286.9	611.3	550.6	60.75	10.062		
9,200.0	7,500.0	9,133.4	7,500.0	35.9	32.5	-90.00	1,569.6	285.1	613.1	549.1	63.94	9.589		
9,300.0	7,500.0	9,233.4	7,500.0	37.4	34.1	-90.00	1,669.6	283.4	614.8	547.7	67.15	9.156		
9,400.0	7,500.0	9,333.4	7,500.0	38.8	35.7	-90.00	1,769.6	281.7	616.6	546.2	70.39	8.759		
9,500.0	7,500.0	9,433.3	7,500.0	40.3	37.3	-90.00	1,869.6	279.9	618.3	544.6	73.66	8.394		
9,600.0	7,500.0	9,533.3	7,500.0	41.8	38.9	-90.00	1,969.5	278.2	620.1	543.1	76.95	8.058		
9,700.0	7,500.0	9,633.3	7,500.0	43.4	40.6	-90.00	2,069.5	276.4	621.8	541.5	80.25	7.748		
9,800.0	7,500.0	9,733.3	7,500.0	44.9	42.2	-90.00	2,169.5	274.7	623.5	540.0	83.58	7.461		
9,900.0	7,500.0	9,833.3	7,500.0	46.5	43.9	-90.00	2,269.4	272.9	625.3	538.4	86.91	7.194		
10,000.0	7,500.0	9,933.3	7,500.0	48.1	45.5	-90.00	2,369.4	271.2	627.0	536.8	90.26	6.947		
10,100.0	7,500.0	10,033.2	7,500.0	49.7	47.2	-90.00	2,469.4	269.4	628.8	535.2	93.63	6.716		
10,200.0	7,500.0	10,133.2	7,500.0	51.3	48.9	-90.00	2,569.3	267.7	630.5	533.5	97.00	6.500		
10,300.0	7,500.0	10,233.2	7,500.0	52.9	50.5	-90.00	2,669.3	265.9	632.3	531.9	100.38	6.299		
10,400.0	7,500.0	10,333.2	7,500.0	54.5	52.2	-90.00	2,769.3	264.2	634.0	530.2	103.77	6.110		
10,500.0	7,500.0	10,433.2	7,500.0	56.1	53.9	-90.00	2,869.2	262.5	635.8	528.6	107.17	5.932		
10,600.0	7,500.0	10,533.2	7,500.0	57.8	55.6	-90.00	2,969.2	260.7	637.5	526.9	110.57	5.766		
10,700.0	7,500.0	10,633.2	7,500.0	59.4	57.3	-90.00	3,069.2	259.0	639.2	525.3	113.98	5.608		
10,800.0	7,500.0	10,733.1	7,500.0	61.1	59.0	-90.00	3,169.2	257.2	641.0	523.6	117.40	5.460		
10,900.0	7,500.0	10,833.1	7,500.0	62.7	60.7	-90.00	3,269.1	255.5	642.7	521.9	120.82	5.320		
11,000.0	7,500.0	10,933.1	7,500.0	64.4	62.4	-90.00	3,369.1	253.7	644.5	520.2	124.25	5.187		
11,100.0	7,500.0	11,033.1	7,500.0	66.0	64.1	-90.00	3,469.1	252.0	646.2	518.6	127.68	5.061		
11,200.0	7,500.0	11,133.1	7,500.0	67.7	65.8	-90.00	3,569.0	250.2	648.0	516.9	131.11	4.942		
11,300.0	7,500.0	11,233.1	7,500.0	69.4	67.5	-90.00	3,669.0	248.5	649.7	515.2	134.55	4.829		
11,400.0	7,500.0	11,333.0	7,500.0	71.1	69.2	-90.00	3,769.0	246.8	651.5	513.5	137.99	4.721		
11,500.0	7,500.0	11,433.0	7,500.0	72.7	71.0	-90.00	3,868.9	245.0	653.2	511.8	141.44	4.618		
11,600.0	7,500.0	11,533.0	7,500.0	74.4	72.7	-90.00	3,968.9	243.3	655.0	510.1	144.89	4.520		
11,700.0	7,500.0	11,633.0	7,500.0	76.1	74.4	-90.00	4,068.9	241.5	656.7	508.4	148.34	4.427		
11,800.0	7,500.0	11,733.0	7,500.0	77.8	76.1	-90.00	4,168.9	239.8	658.4	506.7	151.79	4.338		
11,878.1	7,500.0	11,811.0	7,500.0	79.1	77.5	-90.00	4,246.9	238.4	659.8	505.3	154.49	4.271 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.90	0.0	-20.1	20.1	19.8	0.30	67.894		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.0	-20.1	20.1	19.5	0.65	31.195		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.0	-20.1	20.1	19.1	0.99	20.249		
400.0	400.0	400.0	400.0	0.7	0.7	-89.90	0.0	-20.1	20.1	18.8	1.34	14.990 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	156.96	0.0	-20.1	20.9	19.3	1.69	12.371		
600.0	600.0	600.3	600.3	1.0	1.0	158.34	-0.5	-19.4	22.6	20.6	2.04	11.076		
700.0	699.9	700.6	700.6	1.2	1.2	158.84	-2.0	-17.2	24.5	22.1	2.39	10.214		
800.0	799.7	801.0	800.9	1.4	1.4	158.66	-4.4	-13.6	26.4	23.7	2.75	9.612		
900.0	899.4	901.4	901.1	1.6	1.6	157.92	-7.9	-8.6	28.5	25.4	3.11	9.177		
1,000.0	998.9	1,001.8	1,001.1	1.8	1.8	156.76	-12.4	-2.0	30.8	27.3	3.48	8.852		
1,100.0	1,098.3	1,102.2	1,101.1	2.1	2.0	155.28	-17.8	5.9	33.2	29.3	3.86	8.603		
1,200.0	1,197.4	1,202.2	1,200.5	2.3	2.2	154.39	-23.8	14.6	36.5	32.2	4.25	8.587		
1,237.8	1,234.9	1,240.0	1,238.1	2.4	2.3	154.39	-26.0	17.8	38.1	33.7	4.40	8.676		
1,300.0	1,296.4	1,302.1	1,299.8	2.6	2.5	154.53	-29.7	23.2	41.0	36.4	4.64	8.849		
1,400.0	1,395.3	1,401.9	1,399.2	2.9	2.7	154.71	-35.6	31.8	45.7	40.7	5.03	9.089		
1,500.0	1,494.2	1,501.8	1,498.5	3.2	2.9	154.86	-41.5	40.5	50.4	45.0	5.42	9.291		
1,600.0	1,593.2	1,601.7	1,597.9	3.5	3.2	154.99	-47.5	49.1	55.1	49.3	5.82	9.463		
1,700.0	1,692.1	1,701.6	1,697.2	3.8	3.4	155.09	-53.4	57.7	59.8	53.5	6.22	9.612		
1,800.0	1,791.0	1,801.5	1,796.5	4.1	3.7	155.18	-59.3	66.4	64.4	57.8	6.62	9.741		
1,900.0	1,890.0	1,901.4	1,895.9	4.4	3.9	155.26	-65.2	75.0	69.1	62.1	7.02	9.854		
2,000.0	1,988.9	2,001.3	1,995.2	4.7	4.2	155.32	-71.1	83.7	73.8	66.4	7.42	9.954		
2,100.0	2,087.8	2,101.2	2,094.6	5.0	4.4	155.38	-77.1	92.3	78.5	70.7	7.82	10.043		
2,200.0	2,186.7	2,201.1	2,193.9	5.3	4.7	155.43	-83.0	100.9	83.2	75.0	8.22	10.123		
2,300.0	2,285.7	2,301.0	2,293.2	5.6	4.9	155.48	-88.9	109.6	87.9	79.2	8.62	10.195		
2,400.0	2,384.6	2,400.8	2,392.6	5.9	5.1	155.52	-94.8	118.2	92.5	83.5	9.02	10.261		
2,500.0	2,483.5	2,500.7	2,491.9	6.2	5.4	155.56	-100.8	126.8	97.2	87.8	9.42	10.320		
2,600.0	2,582.5	2,600.6	2,591.3	6.5	5.6	155.60	-106.7	135.5	101.9	92.1	9.82	10.374		
2,700.0	2,681.4	2,700.5	2,690.6	6.8	5.9	155.63	-112.6	144.1	106.6	96.4	10.23	10.424		
2,800.0	2,780.3	2,800.4	2,789.9	7.1	6.1	155.66	-118.5	152.7	111.3	100.6	10.63	10.469		
2,900.0	2,879.3	2,900.3	2,889.3	7.4	6.4	155.68	-124.4	161.4	116.0	104.9	11.03	10.512		
3,000.0	2,978.2	3,000.2	2,988.6	7.7	6.6	155.71	-130.4	170.0	120.6	109.2	11.43	10.551		
3,100.0	3,077.1	3,100.1	3,088.0	8.0	6.9	155.73	-136.3	178.6	125.3	113.5	11.84	10.587		
3,200.0	3,176.1	3,200.0	3,187.3	8.3	7.1	155.75	-142.2	187.3	130.0	117.8	12.24	10.621		
3,300.0	3,275.0	3,299.9	3,286.6	8.7	7.4	155.77	-148.1	195.9	134.7	122.0	12.64	10.652		
3,400.0	3,373.9	3,399.8	3,386.0	9.0	7.7	155.79	-154.0	204.6	139.4	126.3	13.05	10.682		
3,500.0	3,472.9	3,499.6	3,485.3	9.3	7.9	155.81	-160.0	213.2	144.1	130.6	13.45	10.709		
3,600.0	3,571.8	3,599.5	3,584.7	9.6	8.2	155.82	-165.9	221.8	148.7	134.9	13.86	10.735		
3,700.0	3,670.7	3,699.4	3,684.0	9.9	8.4	155.84	-171.8	230.5	153.4	139.2	14.26	10.760		
3,800.0	3,769.7	3,799.3	3,783.3	10.2	8.7	155.85	-177.7	239.1	158.1	143.4	14.66	10.783		
3,900.0	3,868.6	3,899.2	3,882.7	10.5	8.9	155.87	-183.7	247.7	162.8	147.7	15.07	10.804		
4,000.0	3,967.5	3,999.1	3,982.0	10.8	9.2	155.88	-189.6	256.4	167.5	152.0	15.47	10.825		
4,100.0	4,066.5	4,099.0	4,081.4	11.1	9.4	155.89	-195.5	265.0	172.2	156.3	15.88	10.844		
4,200.0	4,165.4	4,198.9	4,180.7	11.4	9.7	155.90	-201.4	273.6	176.8	160.6	16.28	10.863		
4,300.0	4,264.3	4,298.8	4,280.0	11.7	9.9	155.91	-207.3	282.3	181.5	164.8	16.68	10.880		
4,400.0	4,363.3	4,398.7	4,379.4	12.1	10.2	155.92	-213.3	290.9	186.2	169.1	17.09	10.897		
4,500.0	4,462.2	4,498.5	4,478.7	12.4	10.4	155.93	-219.2	299.5	190.9	173.4	17.49	10.913		
4,600.0	4,561.1	4,598.4	4,578.1	12.7	10.7	155.94	-225.1	308.2	195.6	177.7	17.90	10.928		
4,700.0	4,660.1	4,698.3	4,677.4	13.0	10.9	155.95	-231.0	316.8	200.3	182.0	18.30	10.942		
4,800.0	4,759.0	4,798.2	4,776.7	13.3	11.2	155.96	-237.0	325.4	204.9	186.2	18.71	10.956		
4,900.0	4,857.9	4,898.1	4,876.1	13.6	11.4	155.97	-242.9	334.1	209.6	190.5	19.11	10.969		
5,000.0	4,956.9	4,998.0	4,975.4	13.9	11.7	155.97	-248.8	342.7	214.3	194.8	19.51	10.982		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference				Offset			Semi Major Axis			Distance				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,055.8	5,097.9	5,074.8	14.2	11.9	155.98	-254.7	351.4	219.0	199.1	19.92	10.994		
5,200.0	5,154.7	5,197.8	5,174.1	14.5	12.2	155.99	-260.6	360.0	223.7	203.3	20.32	11.006		
5,300.0	5,253.7	5,297.7	5,273.4	14.8	12.4	155.99	-266.6	368.6	228.4	207.6	20.73	11.017		
5,400.0	5,352.6	5,397.6	5,372.8	15.1	12.7	156.00	-272.5	377.3	233.0	211.9	21.13	11.027		
5,500.0	5,451.5	5,497.4	5,472.1	15.5	12.9	156.01	-278.4	385.9	237.7	216.2	21.54	11.038		
5,600.0	5,550.5	5,597.3	5,571.5	15.8	13.2	156.01	-284.3	394.5	242.4	220.5	21.94	11.048		
5,700.0	5,649.4	5,697.2	5,670.8	16.1	13.4	156.02	-290.2	403.2	247.1	224.7	22.35	11.057		
5,800.0	5,748.3	5,797.1	5,770.1	16.4	13.7	156.02	-296.2	411.8	251.8	229.0	22.75	11.066		
5,900.0	5,847.3	5,897.0	5,869.5	16.7	14.0	156.03	-302.1	420.4	256.5	233.3	23.16	11.075		
6,000.0	5,946.2	5,996.9	5,968.8	17.0	14.2	156.03	-308.0	429.1	261.1	237.6	23.56	11.084		
6,100.0	6,045.1	6,096.8	6,068.2	17.3	14.5	156.04	-313.9	437.7	265.8	241.9	23.96	11.092		
6,200.0	6,144.1	6,196.7	6,167.5	17.6	14.7	156.04	-319.9	446.3	270.5	246.1	24.37	11.100		
6,300.0	6,243.0	6,296.6	6,266.8	17.9	15.0	156.05	-325.8	455.0	275.2	250.4	24.77	11.108		
6,400.0	6,341.9	6,396.5	6,366.2	18.2	15.2	156.05	-331.7	463.6	279.9	254.7	25.18	11.115		
6,500.0	6,440.9	6,496.3	6,465.5	18.5	15.5	156.06	-337.6	472.2	284.5	259.0	25.58	11.122		
6,600.0	6,539.8	6,596.2	6,564.9	18.9	15.7	156.06	-343.5	480.9	289.2	263.2	25.99	11.129		
6,700.0	6,638.7	6,696.1	6,664.2	19.2	16.0	156.07	-349.5	489.5	293.9	267.5	26.39	11.136		
6,800.0	6,737.7	6,796.1	6,763.6	19.5	16.2	156.12	-355.1	498.2	298.6	271.8	26.78	11.148		
6,810.4	6,748.0	6,806.5	6,774.0	19.5	16.2	156.19	-355.4	499.1	299.1	272.3	26.81	11.157		
6,850.0	6,787.2	6,846.0	6,813.4	19.6	16.3	178.70	-355.0	502.5	300.9	274.1	26.86	11.204		
6,900.0	6,836.7	6,895.9	6,862.9	19.7	16.4	-152.94	-351.5	506.9	303.2	276.4	26.88	11.283		
6,950.0	6,886.0	6,945.6	6,911.9	19.8	16.4	-133.25	-344.5	511.2	305.5	278.7	26.85	11.381		
7,000.0	6,934.8	6,995.1	6,960.1	19.9	16.5	-121.24	-334.1	515.5	307.8	281.0	26.78	11.494		
7,050.0	6,982.9	7,044.5	7,007.4	20.0	16.5	-113.64	-320.5	519.8	310.0	283.3	26.68	11.618		
7,100.0	7,030.1	7,093.8	7,053.6	20.0	16.5	-108.49	-303.7	524.0	312.1	285.5	26.56	11.751		
7,150.0	7,076.1	7,143.0	7,098.3	20.1	16.5	-104.77	-283.8	528.1	314.1	287.7	26.43	11.886		
7,200.0	7,120.8	7,192.1	7,141.5	20.1	16.5	-101.96	-260.8	532.0	316.1	289.8	26.30	12.021		
7,250.0	7,163.8	7,241.0	7,183.0	20.1	16.4	-99.75	-235.1	535.9	318.0	291.8	26.18	12.148		
7,300.0	7,205.0	7,289.9	7,222.5	20.2	16.4	-97.96	-206.6	539.6	319.8	293.7	26.08	12.262		
7,350.0	7,244.1	7,338.6	7,259.9	20.2	16.4	-96.49	-175.6	543.1	321.4	295.4	26.01	12.357		
7,400.0	7,281.1	7,387.3	7,295.0	20.2	16.4	-95.26	-142.1	546.5	322.9	296.9	25.99	12.427		
7,450.0	7,315.7	7,435.8	7,327.8	20.3	16.5	-94.23	-106.4	549.7	324.3	298.3	26.02	12.466		
7,500.0	7,347.7	7,484.3	7,358.0	20.3	16.5	-93.35	-68.6	552.6	325.6	299.5	26.11	12.470		
7,550.0	7,377.0	7,532.7	7,385.5	20.4	16.6	-92.60	-28.9	555.4	326.7	300.4	26.27	12.433		
7,600.0	7,403.4	7,581.1	7,410.3	20.5	16.7	-91.97	12.5	557.9	327.6	301.1	26.50	12.362		
7,650.0	7,426.8	7,629.4	7,432.2	20.6	16.8	-91.44	55.5	560.2	328.4	301.6	26.82	12.245		
7,700.0	7,447.2	7,677.6	7,451.2	20.8	17.0	-91.00	99.8	562.3	329.0	301.8	27.22	12.089		
7,750.0	7,464.3	7,725.8	7,467.1	20.9	17.2	-90.65	145.2	564.0	329.5	301.8	27.70	11.895		
7,800.0	7,478.2	7,773.9	7,480.0	21.2	17.4	-90.37	191.6	565.6	329.7	301.5	28.26	11.670		
7,850.0	7,488.7	7,822.1	7,489.7	21.4	17.7	-90.18	238.7	566.8	329.9	301.0	28.89	11.416		
7,900.0	7,495.8	7,870.1	7,496.2	21.6	18.0	-90.05	286.3	567.8	329.8	300.2	29.60	11.140		
7,950.0	7,499.5	7,918.2	7,499.5	21.9	18.3	-90.00	334.3	568.5	329.5	299.2	30.38	10.848		
7,978.1	7,500.0	7,945.2	7,500.0	22.1	18.5	-90.00	361.3	568.8	329.3	298.5	30.84	10.679		
8,000.0	7,500.0	7,967.2	7,500.0	22.2	18.7	-90.00	383.2	569.0	329.1	297.9	31.26	10.530		
8,100.0	7,500.0	8,067.2	7,500.0	23.0	19.6	-90.00	483.2	569.9	328.3	294.9	33.31	9.855		
8,200.0	7,500.0	8,167.2	7,500.0	23.8	20.5	-90.00	583.2	570.7	327.4	291.8	35.58	9.201		
8,300.0	7,500.0	8,267.2	7,500.0	24.7	21.6	-90.00	683.2	571.6	326.5	288.5	38.04	8.583		
8,400.0	7,500.0	8,367.2	7,500.0	25.7	22.8	-90.00	783.2	572.5	325.6	285.0	40.65	8.010		
8,500.0	7,500.0	8,467.2	7,500.0	26.8	24.0	-90.00	883.2	573.4	324.8	281.4	43.39	7.484		
8,600.0	7,500.0	8,567.2	7,500.0	27.9	25.3	-90.00	983.2	574.2	323.9	277.7	46.24	7.005		
8,700.0	7,500.0	8,667.2	7,500.0	29.2	26.6	-90.00	1,083.2	575.1	323.0	273.9	49.17	6.570		
8,800.0	7,500.0	8,767.2	7,500.0	30.4	28.0	-90.00	1,183.2	576.0	322.1	270.0	52.17	6.175		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4Q-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference				Offset			Semi Major Axis			Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,500.0	8,867.2	7,500.0	31.7	29.5	-90.00	1,283.1	576.9	321.3	266.0	55.23	5.817		
9,000.0	7,500.0	8,967.2	7,500.0	33.1	30.9	-90.00	1,383.1	577.7	320.4	262.1	58.34	5.492		
9,100.0	7,500.0	9,067.2	7,500.0	34.5	32.4	-90.00	1,483.1	578.6	319.5	258.0	61.50	5.196		
9,200.0	7,500.0	9,167.1	7,500.0	35.9	33.9	-90.00	1,583.1	579.5	318.7	254.0	64.69	4.926		
9,300.0	7,500.0	9,267.1	7,500.0	37.4	35.5	-90.00	1,683.1	580.3	317.8	249.9	67.91	4.679		
9,400.0	7,500.0	9,367.1	7,500.0	38.8	37.0	-90.00	1,783.1	581.2	316.9	245.8	71.16	4.454		
9,500.0	7,500.0	9,467.1	7,500.0	40.3	38.6	-90.00	1,883.1	582.1	316.0	241.6	74.43	4.246		
9,600.0	7,500.0	9,567.1	7,500.0	41.8	40.2	-90.00	1,983.1	583.0	315.2	237.4	77.73	4.055		
9,700.0	7,500.0	9,667.1	7,500.0	43.4	41.8	-90.00	2,083.1	583.8	314.3	233.3	81.04	3.878		
9,800.0	7,500.0	9,767.1	7,500.0	44.9	43.4	-90.00	2,183.1	584.7	313.4	229.1	84.36	3.715		
9,869.7	7,500.0	9,834.1	7,500.0	46.0	44.5	-90.00	2,250.0	585.1	313.0	226.6	86.44	3.622		
9,900.0	7,500.0	9,862.8	7,500.0	46.5	45.0	-90.00	2,278.8	585.0	313.1	225.8	87.30	3.587		
10,000.0	7,500.0	9,961.7	7,500.0	48.1	46.6	-90.00	2,377.7	584.2	313.9	223.4	90.55	3.467		
10,100.0	7,500.0	10,061.7	7,500.0	49.7	48.2	-90.00	2,477.7	583.3	314.8	220.9	93.91	3.352		
10,200.0	7,500.0	10,161.7	7,500.0	51.3	49.9	-90.00	2,577.6	582.5	315.6	218.4	97.28	3.245		
10,300.0	7,500.0	10,261.7	7,500.0	52.9	51.5	-90.00	2,677.6	581.6	316.5	215.8	100.66	3.144		
10,400.0	7,500.0	10,361.7	7,500.0	54.5	53.2	-90.00	2,777.6	580.8	317.3	213.3	104.06	3.050		
10,500.0	7,500.0	10,461.7	7,500.0	56.1	54.8	-90.00	2,877.6	579.9	318.2	210.7	107.45	2.961		
10,600.0	7,500.0	10,561.7	7,500.0	57.8	56.5	-90.00	2,977.6	579.1	319.1	208.2	110.86	2.878		
10,700.0	7,500.0	10,661.7	7,500.0	59.4	58.2	-90.00	3,077.6	578.2	319.9	205.6	114.27	2.800		
10,800.0	7,500.0	10,761.7	7,500.0	61.1	59.8	-90.00	3,177.6	577.4	320.8	203.1	117.69	2.726		
10,900.0	7,500.0	10,861.7	7,500.0	62.7	61.5	-90.00	3,277.6	576.5	321.6	200.5	121.11	2.656		
11,000.0	7,500.0	10,961.7	7,500.0	64.4	63.2	-90.00	3,377.6	575.7	322.5	197.9	124.54	2.589		
11,100.0	7,500.0	11,061.7	7,500.0	66.0	64.9	-90.00	3,477.6	574.8	323.3	195.4	127.97	2.527		
11,200.0	7,500.0	11,161.7	7,500.0	67.7	66.6	-90.00	3,577.6	574.0	324.2	192.8	131.40	2.467		
11,300.0	7,500.0	11,261.7	7,500.0	69.4	68.3	-90.00	3,677.6	573.1	325.0	190.2	134.84	2.410		
11,400.0	7,500.0	11,361.7	7,500.0	71.1	70.0	-90.00	3,777.6	572.2	325.9	187.6	138.28	2.357		
11,500.0	7,500.0	11,461.7	7,500.0	72.7	71.7	-90.00	3,877.6	571.4	326.7	185.0	141.73	2.305		
11,600.0	7,500.0	11,561.7	7,500.0	74.4	73.4	-90.00	3,977.5	570.5	327.6	182.4	145.18	2.256		
11,700.0	7,500.0	11,661.7	7,500.0	76.1	75.1	-90.00	4,077.5	569.7	328.4	179.8	148.63	2.210		
11,800.0	7,500.0	11,761.6	7,500.0	77.8	76.8	-90.00	4,177.5	568.8	329.3	177.2	152.09	2.165		
11,878.1	7,500.0	11,839.7	7,500.0	79.1	78.2	-90.00	4,255.6	568.2	330.0	175.2	154.78	2.132 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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-10.1	10.1	9.8	0.30	33.947		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-10.1	10.1	9.4	0.65	15.597		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-10.1	10.1	9.1	0.99	10.125		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-10.1	10.1	8.7	1.34	7.495 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	157.82	0.0	-10.1	10.9	9.2	1.69	6.423		
600.0	600.0	600.2	600.2	1.0	1.0	160.48	-0.4	-9.3	12.5	10.5	2.04	6.138		
700.0	699.9	700.4	700.3	1.2	1.2	161.87	-1.7	-7.0	14.3	11.9	2.39	5.967		
800.0	799.7	800.6	800.5	1.4	1.4	162.38	-3.9	-3.2	16.1	13.3	2.75	5.859		
900.0	899.4	900.8	900.5	1.6	1.6	162.28	-6.9	2.1	17.9	14.8	3.10	5.788		
1,000.0	998.9	1,001.1	1,000.5	1.8	1.8	161.73	-10.8	9.0	19.9	16.4	3.46	5.740		
1,100.0	1,098.3	1,101.4	1,100.3	2.1	2.0	160.86	-15.6	17.3	21.8	18.0	3.82	5.707		
1,200.0	1,197.4	1,201.8	1,200.0	2.3	2.2	159.76	-21.2	27.2	23.9	19.7	4.20	5.681		
1,237.8	1,234.9	1,239.6	1,237.5	2.4	2.3	159.48	-23.5	31.2	24.8	20.5	4.35	5.711		
1,300.0	1,296.4	1,301.7	1,299.2	2.6	2.5	159.22	-27.2	37.7	26.6	22.0	4.58	5.797		
1,400.0	1,395.3	1,401.7	1,398.5	2.9	2.7	158.87	-33.2	48.2	29.4	24.4	4.97	5.915		
1,500.0	1,494.2	1,501.6	1,497.7	3.2	3.0	158.59	-39.1	58.7	32.2	26.9	5.36	6.012		
1,600.0	1,593.2	1,601.6	1,596.9	3.5	3.3	158.35	-45.1	69.2	35.0	29.3	5.75	6.094		
1,700.0	1,692.1	1,701.6	1,696.1	3.8	3.5	158.14	-51.1	79.7	37.9	31.7	6.14	6.163		
1,800.0	1,791.0	1,801.5	1,795.4	4.1	3.8	157.96	-57.0	90.2	40.7	34.1	6.54	6.223		
1,900.0	1,890.0	1,901.5	1,894.6	4.4	4.0	157.81	-63.0	100.7	43.5	36.6	6.93	6.274		
2,000.0	1,988.9	2,001.4	1,993.8	4.7	4.3	157.68	-69.0	111.1	46.3	39.0	7.33	6.319		
2,100.0	2,087.8	2,101.4	2,093.1	5.0	4.6	157.56	-75.0	121.6	49.2	41.4	7.73	6.358		
2,200.0	2,186.7	2,201.4	2,192.3	5.3	4.8	157.45	-80.9	132.1	52.0	43.9	8.13	6.393		
2,300.0	2,285.7	2,301.3	2,291.5	5.6	5.1	157.35	-86.9	142.6	54.8	46.3	8.53	6.424		
2,400.0	2,384.6	2,401.3	2,390.7	5.9	5.4	157.27	-92.9	153.1	57.6	48.7	8.93	6.452		
2,500.0	2,483.5	2,501.2	2,490.0	6.2	5.6	157.19	-98.8	163.6	60.5	51.1	9.33	6.477		
2,600.0	2,582.5	2,601.2	2,589.2	6.5	5.9	157.12	-104.8	174.1	63.3	53.5	9.74	6.499		
2,700.0	2,681.4	2,701.2	2,688.4	6.8	6.2	157.05	-110.8	184.6	66.1	56.0	10.14	6.520		
2,800.0	2,780.3	2,801.1	2,787.7	7.1	6.5	156.99	-116.8	195.1	68.9	58.4	10.54	6.538		
2,900.0	2,879.3	2,901.1	2,886.9	7.4	6.7	156.94	-122.7	205.6	71.8	60.8	10.95	6.555		
3,000.0	2,978.2	3,001.0	2,986.1	7.7	7.0	156.89	-128.7	216.0	74.6	63.2	11.35	6.571		
3,100.0	3,077.1	3,101.0	3,085.3	8.0	7.3	156.84	-134.7	226.5	77.4	65.7	11.76	6.585		
3,200.0	3,176.1	3,201.0	3,184.6	8.3	7.5	156.80	-140.6	237.0	80.2	68.1	12.16	6.598		
3,300.0	3,275.0	3,300.9	3,283.8	8.7	7.8	156.76	-146.6	247.5	83.1	70.5	12.56	6.611		
3,400.0	3,373.9	3,400.9	3,383.0	9.0	8.1	156.72	-152.6	258.0	85.9	72.9	12.97	6.622		
3,500.0	3,472.9	3,500.8	3,482.3	9.3	8.4	156.68	-158.6	268.5	88.7	75.3	13.38	6.633		
3,600.0	3,571.8	3,600.8	3,581.5	9.6	8.6	156.65	-164.5	279.0	91.5	77.8	13.78	6.643		
3,700.0	3,670.7	3,700.8	3,680.7	9.9	8.9	156.62	-170.5	289.5	94.4	80.2	14.19	6.652		
3,800.0	3,769.7	3,800.7	3,779.9	10.2	9.2	156.59	-176.5	300.0	97.2	82.6	14.59	6.661		
3,900.0	3,868.6	3,900.7	3,879.2	10.5	9.4	156.56	-182.4	310.5	100.0	85.0	15.00	6.669		
4,000.0	3,967.5	4,000.6	3,978.4	10.8	9.7	156.53	-188.4	320.9	102.8	87.4	15.40	6.676		
4,100.0	4,066.5	4,100.6	4,077.6	11.1	10.0	156.51	-194.4	331.4	105.7	89.9	15.81	6.684		
4,200.0	4,165.4	4,200.6	4,176.9	11.4	10.3	156.49	-200.4	341.9	108.5	92.3	16.22	6.690		
4,300.0	4,264.3	4,300.5	4,276.1	11.7	10.5	156.46	-206.3	352.4	111.3	94.7	16.62	6.697		
4,400.0	4,363.3	4,400.5	4,375.3	12.1	10.8	156.44	-212.3	362.9	114.1	97.1	17.03	6.703		
4,500.0	4,462.2	4,500.4	4,474.5	12.4	11.1	156.42	-218.3	373.4	117.0	99.5	17.44	6.709		
4,600.0	4,561.1	4,600.4	4,573.8	12.7	11.4	156.40	-224.2	383.9	119.8	102.0	17.84	6.714		
4,700.0	4,660.1	4,700.4	4,673.0	13.0	11.6	156.38	-230.2	394.4	122.6	104.4	18.25	6.719		
4,800.0	4,759.0	4,800.3	4,772.2	13.3	11.9	156.37	-236.2	404.9	125.5	106.8	18.66	6.724		
4,900.0	4,857.9	4,900.3	4,871.5	13.6	12.2	156.35	-242.2	415.4	128.3	109.2	19.06	6.729		
5,000.0	4,956.9	5,000.2	4,970.7	13.9	12.4	156.33	-248.1	425.8	131.1	111.6	19.47	6.733		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,055.8	5,100.2	5,069.9	14.2	12.7	156.32	-254.1	436.3	133.9	114.1	19.88	6.738		
5,200.0	5,154.7	5,200.2	5,169.1	14.5	13.0	156.30	-260.1	446.8	136.8	116.5	20.28	6.742		
5,300.0	5,253.7	5,300.1	5,268.4	14.8	13.3	156.29	-266.0	457.3	139.6	118.9	20.69	6.746		
5,400.0	5,352.6	5,400.1	5,367.6	15.1	13.5	156.28	-272.0	467.8	142.4	121.3	21.10	6.749		
5,500.0	5,451.5	5,500.0	5,466.8	15.5	13.8	156.26	-278.0	478.3	145.2	123.7	21.51	6.753		
5,600.0	5,550.5	5,600.0	5,566.1	15.8	14.1	156.25	-284.0	488.8	148.1	126.1	21.91	6.756		
5,700.0	5,649.4	5,700.0	5,665.3	16.1	14.4	156.24	-289.9	499.3	150.9	128.6	22.32	6.760		
5,800.0	5,748.3	5,799.9	5,764.5	16.4	14.6	156.23	-295.9	509.8	153.7	131.0	22.73	6.763		
5,900.0	5,847.3	5,899.9	5,863.7	16.7	14.9	156.21	-301.9	520.3	156.5	133.4	23.14	6.766		
6,000.0	5,946.2	5,999.8	5,963.0	17.0	15.2	156.20	-307.8	530.7	159.4	135.8	23.54	6.769		
6,100.0	6,045.1	6,099.8	6,062.2	17.3	15.5	156.19	-313.8	541.2	162.2	138.2	23.95	6.772		
6,200.0	6,144.1	6,199.8	6,161.4	17.6	15.7	156.18	-319.8	551.7	165.0	140.7	24.36	6.774		
6,300.0	6,243.0	6,299.7	6,260.7	17.9	16.0	156.17	-325.8	562.2	167.8	143.1	24.77	6.777		
6,400.0	6,341.9	6,399.7	6,359.9	18.2	16.3	156.16	-331.7	572.7	170.7	145.5	25.17	6.780		
6,500.0	6,440.9	6,499.6	6,459.1	18.5	16.6	156.15	-337.7	583.2	173.5	147.9	25.58	6.782		
6,600.0	6,539.8	6,599.6	6,558.3	18.9	16.8	156.15	-343.7	593.7	176.3	150.3	25.99	6.784		
6,700.0	6,638.7	6,699.6	6,657.6	19.2	17.1	156.14	-349.6	604.2	179.2	152.8	26.40	6.787		
6,800.0	6,737.7	6,799.5	6,756.8	19.5	17.4	156.16	-355.5	614.7	182.0	155.2	26.80	6.791		
6,810.4	6,748.0	6,809.9	6,767.1	19.5	17.4	156.23	-355.9	615.8	182.3	155.5	26.82	6.797		
6,850.0	6,787.2	6,849.4	6,806.4	19.6	17.5	178.76	-355.9	619.9	183.4	156.5	26.86	6.829		
6,900.0	6,836.7	6,899.2	6,855.8	19.7	17.6	-152.87	-352.9	625.1	184.8	158.0	26.86	6.883		
6,950.0	6,886.0	6,948.8	6,904.8	19.8	17.6	-133.18	-346.5	630.3	186.3	159.5	26.81	6.948		
7,000.0	6,934.8	6,998.4	6,953.1	19.9	17.7	-121.16	-336.6	635.4	187.7	161.0	26.73	7.022		
7,050.0	6,982.9	7,047.9	7,000.5	20.0	17.7	-113.55	-323.5	640.4	189.1	162.5	26.63	7.103		
7,100.0	7,030.1	7,097.3	7,046.8	20.0	17.7	-108.39	-307.1	645.3	190.6	164.0	26.51	7.189		
7,150.0	7,076.1	7,146.6	7,091.8	20.1	17.7	-104.67	-287.6	650.1	191.9	165.6	26.38	7.277		
7,200.0	7,120.8	7,195.8	7,135.3	20.1	17.7	-101.86	-265.1	654.7	193.3	167.0	26.25	7.363		
7,250.0	7,163.8	7,244.9	7,177.1	20.1	17.7	-99.65	-239.7	659.1	194.6	168.4	26.14	7.445		
7,300.0	7,205.0	7,293.9	7,217.0	20.2	17.7	-97.86	-211.5	663.3	195.8	169.8	26.05	7.519		
7,350.0	7,244.1	7,342.9	7,254.8	20.2	17.8	-96.40	-180.7	667.3	197.0	171.0	25.99	7.582		
7,400.0	7,281.1	7,391.8	7,290.4	20.2	17.8	-95.17	-147.4	671.1	198.2	172.2	25.97	7.629		
7,450.0	7,315.7	7,440.6	7,323.6	20.3	17.8	-94.14	-111.8	674.6	199.2	173.2	26.01	7.659		
7,500.0	7,347.7	7,489.4	7,354.3	20.3	17.8	-93.26	-74.0	677.8	200.2	174.1	26.11	7.668		
7,550.0	7,377.0	7,538.1	7,382.4	20.4	17.9	-92.52	-34.3	680.8	201.1	174.8	26.28	7.653		
7,600.0	7,403.4	7,586.8	7,407.6	20.5	18.0	-91.90	7.3	683.5	201.9	175.4	26.51	7.619		
7,650.0	7,426.8	7,635.5	7,430.0	20.6	18.1	-91.38	50.4	685.8	202.7	175.8	26.83	7.555		
7,700.0	7,447.2	7,684.1	7,449.4	20.8	18.3	-90.95	94.9	687.9	203.3	176.1	27.22	7.469		
7,750.0	7,464.3	7,732.7	7,465.8	20.9	18.5	-90.60	140.6	689.6	203.8	176.1	27.69	7.362		
7,800.0	7,478.2	7,781.2	7,479.0	21.2	18.7	-90.34	187.3	691.0	204.2	176.0	28.23	7.235		
7,850.0	7,488.7	7,829.8	7,489.0	21.4	18.9	-90.15	234.8	692.1	204.6	175.7	28.85	7.091		
7,900.0	7,495.8	7,878.3	7,495.9	21.6	19.2	-90.04	282.8	692.8	204.8	175.2	29.53	6.933		
7,950.0	7,499.5	7,926.9	7,499.4	21.9	19.5	-89.99	331.2	693.2	204.9	174.6	30.29	6.765		
7,978.1	7,500.0	7,954.1	7,500.0	22.1	19.7	-90.00	358.4	693.2	204.9	174.2	30.73	6.668		
7,986.0	7,500.0	7,962.0	7,500.0	22.2	19.8	-90.00	366.3	693.2	204.9	174.0	30.87	6.636		
8,000.0	7,500.0	7,976.0	7,500.0	22.2	19.9	-90.00	380.3	693.2	204.9	173.8	31.14	6.580		
8,100.0	7,500.0	8,076.0	7,500.0	23.0	20.7	-90.00	480.3	693.2	204.9	171.7	33.17	6.177		
8,200.0	7,500.0	8,176.0	7,500.0	23.8	21.6	-90.00	580.3	693.2	204.9	169.5	35.42	5.785		
8,300.0	7,500.0	8,276.0	7,500.0	24.7	22.6	-90.00	680.3	693.2	204.9	167.0	37.87	5.411		
8,400.0	7,500.0	8,376.0	7,500.0	25.7	23.7	-90.00	780.3	693.2	204.9	164.4	40.47	5.063		
8,500.0	7,500.0	8,476.0	7,500.0	26.8	24.9	-90.00	880.3	693.2	204.9	161.7	43.20	4.743		
8,600.0	7,500.0	8,576.0	7,500.0	27.9	26.1	-90.00	980.3	693.2	204.9	158.9	46.03	4.451		
8,700.0	7,500.0	8,676.0	7,500.0	29.2	27.4	-90.00	1,080.3	693.2	204.9	155.9	48.96	4.185		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset			Semi Major Axis			Distance			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)					
8,800.0	7,500.0	8,776.0	7,500.0	30.4	28.8	-90.00	1,180.3	693.2	204.9	152.9	51.95	3.944			
8,900.0	7,500.0	8,876.0	7,500.0	31.7	30.1	-90.00	1,280.3	693.2	204.9	149.9	55.01	3.725			
9,000.0	7,500.0	8,976.0	7,500.0	33.1	31.6	-90.00	1,380.3	693.2	204.9	146.8	58.12	3.526			
9,100.0	7,500.0	9,076.0	7,500.0	34.5	33.0	-90.00	1,480.3	693.2	204.9	143.6	61.27	3.344			
9,200.0	7,500.0	9,176.0	7,500.0	35.9	34.5	-90.00	1,580.3	693.2	204.9	140.4	64.45	3.179			
9,300.0	7,500.0	9,276.0	7,500.0	37.4	36.0	-90.00	1,680.3	693.2	204.9	137.2	67.67	3.028			
9,400.0	7,500.0	9,376.0	7,500.0	38.8	37.5	-90.00	1,780.3	693.2	204.9	134.0	70.92	2.889			
9,500.0	7,500.0	9,476.0	7,500.0	40.3	39.1	-90.00	1,880.3	693.2	204.9	130.7	74.19	2.762			
9,600.0	7,500.0	9,576.0	7,500.0	41.8	40.7	-90.00	1,980.3	693.2	204.9	127.4	77.48	2.644			
9,700.0	7,500.0	9,676.0	7,500.0	43.4	42.2	-90.00	2,080.3	693.2	204.9	124.1	80.79	2.536			
9,800.0	7,500.0	9,776.0	7,500.0	44.9	43.8	-90.00	2,180.3	693.2	204.9	120.8	84.12	2.436			
9,900.0	7,500.0	9,876.0	7,500.0	46.5	45.4	-90.00	2,280.3	693.2	204.9	117.4	87.46	2.343			
10,000.0	7,500.0	9,976.0	7,500.0	48.1	47.1	-90.00	2,380.3	693.2	204.9	114.1	90.81	2.256			
10,100.0	7,500.0	10,076.0	7,500.0	49.7	48.7	-90.00	2,480.3	693.2	204.9	110.7	94.17	2.176			
10,200.0	7,500.0	10,176.0	7,500.0	51.3	50.3	-90.00	2,580.3	693.2	204.9	107.3	97.55	2.100			
10,300.0	7,500.0	10,276.0	7,500.0	52.9	52.0	-90.00	2,680.3	693.2	204.9	104.0	100.93	2.030			
10,400.0	7,500.0	10,376.0	7,500.0	54.5	53.6	-90.00	2,780.3	693.2	204.9	100.6	104.32	1.964			
10,500.0	7,500.0	10,476.0	7,500.0	56.1	55.3	-90.00	2,880.3	693.2	204.9	97.2	107.72	1.902			
10,600.0	7,500.0	10,576.0	7,500.0	57.8	56.9	-90.00	2,980.3	693.2	204.9	93.8	111.13	1.844			
10,700.0	7,500.0	10,676.0	7,500.0	59.4	58.6	-90.00	3,080.3	693.2	204.9	90.4	114.54	1.789			
10,800.0	7,500.0	10,776.0	7,500.0	61.1	60.3	-90.00	3,180.3	693.2	204.9	86.9	117.96	1.737			
10,900.0	7,500.0	10,876.0	7,500.0	62.7	61.9	-90.00	3,280.3	693.2	204.9	83.5	121.38	1.688			
11,000.0	7,500.0	10,976.0	7,500.0	64.4	63.6	-90.00	3,380.3	693.2	204.9	80.1	124.81	1.642			
11,100.0	7,500.0	11,076.0	7,500.0	66.0	65.3	-90.00	3,480.3	693.2	204.9	76.7	128.24	1.598			
11,200.0	7,500.0	11,176.0	7,500.0	67.7	67.0	-90.00	3,580.3	693.2	204.9	73.2	131.67	1.556			
11,300.0	7,500.0	11,276.0	7,500.0	69.4	68.7	-90.00	3,680.3	693.2	204.9	69.8	135.11	1.516			
11,400.0	7,500.0	11,378.0	7,500.0	71.1	70.4	-90.00	3,782.4	693.4	204.7	65.9	138.85	1.474 Level 3			
11,500.0	7,500.0	11,484.7	7,500.0	72.7	72.2	-90.00	3,889.0	696.2	202.1	58.9	143.19	1.411 Level 3			
11,600.0	7,500.0	11,591.0	7,500.0	74.4	74.1	-90.00	3,995.1	702.5	196.2	48.8	147.38	1.331 Level 3			
11,700.0	7,500.0	11,696.8	7,500.0	76.1	75.9	-90.00	4,100.5	712.1	187.1	35.7	151.41	1.236 Level 2			
11,800.0	7,500.0	11,801.9	7,500.0	77.8	77.7	-90.00	4,204.7	725.1	174.7	19.5	155.27	1.125 Level 2			
11,878.1	7,500.0	11,857.5	7,500.0	79.1	78.7	-90.00	4,259.7	733.2	164.9	9.6	155.30	1.062 Level 2, SF			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 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	89.62	0.1	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.62	0.1	10.1	10.1	9.8	0.30	33.948		
200.0	200.0	200.0	200.0	0.3	0.3	89.62	0.1	10.1	10.1	9.4	0.65	15.598		
300.0	300.0	300.0	300.0	0.5	0.5	89.62	0.1	10.1	10.1	9.1	0.99	10.125		
303.4	303.4	303.4	303.4	0.5	0.5	89.62	0.1	10.1	10.1	9.1	1.01	10.005 CC		
400.0	400.0	399.9	399.9	0.7	0.7	90.01	0.0	10.3	10.3	8.9	1.34	7.650 ES		
500.0	500.0	499.7	499.7	0.8	0.8	-23.10	-0.6	11.9	11.1	9.4	1.69	6.581		
600.0	600.0	599.5	599.5	1.0	1.0	-23.02	-1.6	15.2	12.1	10.0	2.04	5.904		
700.0	699.9	699.3	699.1	1.2	1.2	-23.68	-3.3	20.2	13.0	10.6	2.39	5.445		
800.0	799.7	799.1	798.6	1.4	1.4	-24.91	-5.5	26.8	14.1	11.3	2.75	5.120		
900.0	899.4	898.8	898.0	1.6	1.6	-26.57	-8.2	35.0	15.2	12.1	3.11	4.881		
1,000.0	998.9	998.6	997.2	1.8	1.9	-28.55	-11.5	44.9	16.4	12.9	3.48	4.700		
1,100.0	1,098.3	1,098.3	1,096.2	2.1	2.1	-30.77	-15.3	56.4	17.6	13.8	3.87	4.558		
1,200.0	1,197.4	1,198.0	1,194.9	2.3	2.4	-33.14	-19.7	69.5	19.0	14.7	4.28	4.441		
1,237.8	1,234.9	1,235.7	1,232.2	2.4	2.5	-34.06	-21.5	74.9	19.6	15.1	4.45	4.400		
1,300.0	1,296.4	1,297.7	1,293.4	2.6	2.7	-35.06	-24.6	84.3	20.8	16.1	4.72	4.407		
1,400.0	1,395.3	1,397.3	1,391.5	2.9	3.0	-34.72	-30.1	100.6	24.0	18.9	5.14	4.668		
1,500.0	1,494.2	1,497.0	1,489.4	3.2	3.4	-32.96	-36.0	118.5	28.6	23.0	5.54	5.159		
1,600.0	1,593.2	1,596.9	1,587.4	3.5	3.7	-31.49	-42.0	136.6	33.4	27.5	5.93	5.627		
1,700.0	1,692.1	1,696.7	1,685.5	3.8	4.1	-30.40	-48.0	154.7	38.2	31.9	6.33	6.038		
1,800.0	1,791.0	1,796.6	1,783.5	4.1	4.5	-29.55	-54.0	172.8	43.1	36.3	6.73	6.401		
1,900.0	1,890.0	1,896.5	1,881.5	4.4	4.8	-28.87	-60.1	190.9	47.9	40.8	7.13	6.724		
2,000.0	1,988.9	1,996.4	1,979.6	4.7	5.2	-28.32	-66.1	209.0	52.8	45.3	7.53	7.013		
2,100.0	2,087.8	2,096.3	2,077.6	5.0	5.6	-27.86	-72.1	227.1	57.6	49.7	7.93	7.273		
2,200.0	2,186.7	2,196.1	2,175.7	5.3	5.9	-27.47	-78.1	245.2	62.5	54.2	8.33	7.508		
2,300.0	2,285.7	2,296.0	2,273.7	5.6	6.3	-27.14	-84.1	263.3	67.4	58.6	8.73	7.721		
2,400.0	2,384.6	2,395.9	2,371.8	5.9	6.7	-26.85	-90.2	281.4	72.2	63.1	9.13	7.916		
2,500.0	2,483.5	2,495.8	2,469.8	6.2	7.0	-26.60	-96.2	299.5	77.1	67.6	9.53	8.094		
2,600.0	2,582.5	2,595.7	2,567.8	6.5	7.4	-26.38	-102.2	317.6	82.0	72.1	9.93	8.258		
2,700.0	2,681.4	2,695.5	2,665.9	6.8	7.8	-26.18	-108.2	335.7	86.9	76.5	10.33	8.409		
2,800.0	2,780.3	2,795.4	2,763.9	7.1	8.2	-26.01	-114.2	353.8	91.7	81.0	10.73	8.549		
2,900.0	2,879.3	2,895.3	2,862.0	7.4	8.5	-25.85	-120.3	371.9	96.6	85.5	11.13	8.679		
3,000.0	2,978.2	2,995.2	2,960.0	7.7	8.9	-25.71	-126.3	390.0	101.5	90.0	11.53	8.799		
3,100.0	3,077.1	3,095.1	3,058.0	8.0	9.3	-25.58	-132.3	408.1	106.4	94.4	11.93	8.912		
3,200.0	3,176.1	3,195.0	3,156.1	8.3	9.7	-25.46	-138.3	426.2	111.2	98.9	12.34	9.017		
3,300.0	3,275.0	3,294.8	3,254.1	8.7	10.0	-25.35	-144.3	444.3	116.1	103.4	12.74	9.115		
3,400.0	3,373.9	3,394.7	3,352.2	9.0	10.4	-25.25	-150.4	462.4	121.0	107.9	13.14	9.208		
3,500.0	3,472.9	3,494.6	3,450.2	9.3	10.8	-25.16	-156.4	480.5	125.9	112.3	13.54	9.295		
3,600.0	3,571.8	3,594.5	3,548.3	9.6	11.2	-25.07	-162.4	498.6	130.7	116.8	13.94	9.377		
3,700.0	3,670.7	3,694.4	3,646.3	9.9	11.6	-24.99	-168.4	516.7	135.6	121.3	14.35	9.454		
3,800.0	3,769.7	3,794.2	3,744.3	10.2	11.9	-24.92	-174.4	534.8	140.5	125.8	14.75	9.527		
3,900.0	3,868.6	3,894.1	3,842.4	10.5	12.3	-24.85	-180.5	552.9	145.4	130.2	15.15	9.596		
4,000.0	3,967.5	3,994.0	3,940.4	10.8	12.7	-24.79	-186.5	571.0	150.3	134.7	15.55	9.662		
4,100.0	4,066.5	4,093.9	4,038.5	11.1	13.1	-24.73	-192.5	589.1	155.1	139.2	15.95	9.724		
4,200.0	4,165.4	4,193.8	4,136.5	11.4	13.5	-24.67	-198.5	607.2	160.0	143.7	16.36	9.783		
4,300.0	4,264.3	4,293.6	4,234.6	11.7	13.8	-24.62	-204.5	625.3	164.9	148.1	16.76	9.839		
4,400.0	4,363.3	4,393.5	4,332.6	12.1	14.2	-24.57	-210.6	643.4	169.8	152.6	17.16	9.893		
4,500.0	4,462.2	4,493.4	4,430.6	12.4	14.6	-24.52	-216.6	661.5	174.7	157.1	17.56	9.944		
4,600.0	4,561.1	4,593.3	4,528.7	12.7	15.0	-24.48	-222.6	679.6	179.5	161.6	17.97	9.993		
4,700.0	4,660.1	4,693.2	4,626.7	13.0	15.3	-24.43	-228.6	697.7	184.4	166.0	18.37	10.040		
4,800.0	4,759.0	4,793.0	4,724.8	13.3	15.7	-24.39	-234.6	715.8	189.3	170.5	18.77	10.084		
4,900.0	4,857.9	4,892.9	4,822.8	13.6	16.1	-24.36	-240.7	733.9	194.2	175.0	19.17	10.127		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4T-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4,956.9	4,992.8	4,920.9	13.9	16.5	-24.32	-246.7	752.0	199.1	179.5	19.58	10.168			
5,100.0	5,055.8	5,092.7	5,018.9	14.2	16.9	-24.29	-252.7	770.1	203.9	184.0	19.98	10.208			
5,200.0	5,154.7	5,192.6	5,116.9	14.5	17.2	-24.25	-258.7	788.2	208.8	188.4	20.38	10.246			
5,300.0	5,253.7	5,292.5	5,215.0	14.8	17.6	-24.22	-264.7	806.3	213.7	192.9	20.78	10.282			
5,400.0	5,352.6	5,392.3	5,313.0	15.1	18.0	-24.19	-270.8	824.4	218.6	197.4	21.19	10.317			
5,500.0	5,451.5	5,492.2	5,411.1	15.5	18.4	-24.16	-276.8	842.5	223.5	201.9	21.59	10.351			
5,600.0	5,550.5	5,592.1	5,509.1	15.8	18.8	-24.14	-282.8	860.6	228.3	206.3	21.99	10.383			
5,700.0	5,649.4	5,692.0	5,607.2	16.1	19.1	-24.11	-288.8	878.7	233.2	210.8	22.39	10.414			
5,800.0	5,748.3	5,791.9	5,705.2	16.4	19.5	-24.08	-294.8	896.8	238.1	215.3	22.80	10.445			
5,900.0	5,847.3	5,891.7	5,803.2	16.7	19.9	-24.06	-300.9	914.9	243.0	219.8	23.20	10.474			
6,000.0	5,946.2	5,991.6	5,901.3	17.0	20.3	-24.04	-306.9	933.0	247.9	224.3	23.60	10.502			
6,100.0	6,045.1	6,091.5	5,999.3	17.3	20.7	-24.01	-312.9	951.1	252.7	228.7	24.00	10.529			
6,200.0	6,144.1	6,191.4	6,097.4	17.6	21.0	-23.99	-318.9	969.2	257.6	233.2	24.41	10.555			
6,300.0	6,243.0	6,291.3	6,195.4	17.9	21.4	-23.97	-324.9	987.3	262.5	237.7	24.81	10.581			
6,400.0	6,341.9	6,391.1	6,293.5	18.2	21.8	-23.95	-331.0	1,005.4	267.4	242.2	25.21	10.605			
6,500.0	6,440.9	6,491.0	6,391.5	18.5	22.2	-23.93	-337.0	1,023.5	272.3	246.6	25.62	10.629			
6,600.0	6,539.8	6,590.9	6,489.5	18.9	22.6	-23.91	-343.0	1,041.6	277.1	251.1	26.02	10.652			
6,700.0	6,638.7	6,690.8	6,587.6	19.2	22.9	-23.90	-349.0	1,059.7	282.0	255.6	26.42	10.674			
6,800.0	6,737.7	6,790.7	6,685.6	19.5	23.3	-23.88	-355.0	1,077.8	286.9	260.1	26.82	10.696			
6,810.4	6,748.0	6,801.1	6,695.8	19.5	23.4	-23.88	-355.7	1,079.7	287.4	260.5	26.87	10.698			
6,850.0	6,787.2	6,840.6	6,734.6	19.6	23.5	-1.75	-358.1	1,086.8	289.3	262.4	26.95	10.737			
6,900.0	6,836.7	6,890.5	6,783.6	19.7	23.7	26.60	-360.4	1,095.9	291.8	264.9	26.88	10.855			
6,950.0	6,886.0	6,940.7	6,833.0	19.8	23.9	46.33	-359.5	1,105.0	294.3	267.6	26.77	10.997			
7,000.0	6,934.8	6,991.2	6,882.5	19.9	24.0	58.39	-355.0	1,114.1	296.9	270.3	26.62	11.152			
7,050.0	6,982.9	7,042.0	6,931.8	20.0	24.1	66.04	-347.0	1,123.2	299.5	273.0	26.47	11.315			
7,100.0	7,030.1	7,093.1	6,980.7	20.0	24.3	71.23	-335.4	1,132.2	302.0	275.7	26.31	11.482			
7,150.0	7,076.1	7,144.5	7,028.9	20.1	24.4	74.99	-320.1	1,141.2	304.6	278.4	26.16	11.645			
7,200.0	7,120.8	7,196.2	7,076.3	20.1	24.5	77.84	-301.2	1,149.9	307.1	281.1	26.03	11.800			
7,250.0	7,163.8	7,248.2	7,122.4	20.1	24.5	80.09	-278.8	1,158.4	309.6	283.6	25.93	11.939			
7,300.0	7,205.0	7,300.5	7,167.0	20.2	24.6	81.91	-252.9	1,166.6	312.0	286.1	25.87	12.059			
7,350.0	7,244.1	7,353.1	7,209.9	20.2	24.7	83.41	-223.5	1,174.6	314.3	288.4	25.86	12.153			
7,400.0	7,281.1	7,405.9	7,250.8	20.2	24.8	84.67	-190.9	1,182.1	316.5	290.6	25.91	12.216			
7,450.0	7,315.7	7,459.0	7,289.3	20.3	24.8	85.73	-155.1	1,189.2	318.6	292.6	26.01	12.248			
7,500.0	7,347.7	7,512.4	7,325.4	20.3	24.9	86.63	-116.4	1,195.9	320.6	294.4	26.18	12.244			
7,550.0	7,377.0	7,565.9	7,358.6	20.4	25.0	87.39	-74.8	1,202.0	322.4	296.0	26.42	12.204			
7,600.0	7,403.4	7,619.7	7,388.8	20.5	25.1	88.04	-30.6	1,207.6	324.0	297.3	26.73	12.123			
7,650.0	7,426.8	7,673.7	7,415.7	20.6	25.2	88.58	15.9	1,212.6	325.5	298.4	27.05	12.032			
7,700.0	7,447.2	7,727.8	7,439.1	20.8	25.4	89.03	64.5	1,216.9	326.8	299.3	27.48	11.893			
7,750.0	7,464.3	7,782.1	7,459.0	20.9	25.6	89.38	114.8	1,220.5	327.8	299.9	27.95	11.728			
7,800.0	7,478.2	7,836.5	7,475.0	21.2	25.7	89.65	166.7	1,223.5	328.7	300.2	28.49	11.539			
7,850.0	7,488.7	7,891.0	7,487.2	21.4	26.0	89.85	219.8	1,225.8	329.4	300.3	29.07	11.329			
7,900.0	7,495.8	7,945.5	7,495.4	21.6	26.2	89.96	273.6	1,227.3	329.8	300.1	29.71	11.101			
7,950.0	7,499.5	8,000.1	7,499.5	21.9	26.4	90.01	328.0	1,228.0	330.0	299.6	30.39	10.858			
7,978.1	7,500.0	8,030.5	7,500.0	22.1	26.6	90.00	358.4	1,228.1	330.0	299.2	30.81	10.712			
8,000.0	7,500.0	8,052.4	7,500.0	22.2	26.7	90.00	380.3	1,228.1	330.0	298.8	31.22	10.570			
8,100.0	7,500.0	8,152.4	7,500.0	23.0	27.3	90.00	480.3	1,228.1	330.0	296.8	33.25	9.926			
8,200.0	7,500.0	8,252.4	7,500.0	23.8	28.0	90.00	580.3	1,228.1	330.0	294.5	35.49	9.297			
8,300.0	7,500.0	8,352.4	7,500.0	24.7	28.8	90.00	680.3	1,228.1	330.0	292.1	37.94	8.699			
8,400.0	7,500.0	8,452.4	7,500.0	25.7	29.6	90.00	780.3	1,228.1	330.0	289.5	40.53	8.141			
8,500.0	7,500.0	8,552.4	7,500.0	26.8	30.6	90.00	880.3	1,228.1	330.0	286.7	43.26	7.628			
8,600.0	7,500.0	8,652.4	7,500.0	27.9	31.6	90.00	980.3	1,228.1	330.0	283.9	46.09	7.159			
8,700.0	7,500.0	8,752.4	7,500.0	29.2	32.7	90.00	1,080.3	1,228.1	330.0	281.0	49.01	6.733			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4T-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,500.0	8,852.4	7,500.0	30.4	33.8	90.00	1,180.3	1,228.1	330.0	278.0	52.01	6.345		
8,900.0	7,500.0	8,952.4	7,500.0	31.7	35.0	90.00	1,280.3	1,228.1	330.0	274.9	55.06	5.993		
9,000.0	7,500.0	9,052.4	7,500.0	33.1	36.2	90.00	1,380.3	1,228.1	330.0	271.8	58.17	5.673		
9,100.0	7,500.0	9,152.4	7,500.0	34.5	37.5	90.00	1,480.3	1,228.1	330.0	268.7	61.32	5.382		
9,200.0	7,500.0	9,252.4	7,500.0	35.9	38.8	90.00	1,580.3	1,228.1	330.0	265.5	64.50	5.116		
9,300.0	7,500.0	9,352.4	7,500.0	37.4	40.1	90.00	1,680.3	1,228.1	330.0	262.3	67.72	4.873		
9,400.0	7,500.0	9,452.4	7,500.0	38.8	41.5	90.00	1,780.3	1,228.1	330.0	259.0	70.96	4.650		
9,500.0	7,500.0	9,552.4	7,500.0	40.3	42.9	90.00	1,880.3	1,228.1	330.0	255.8	74.23	4.445		
9,600.0	7,500.0	9,652.4	7,500.0	41.8	44.3	90.00	1,980.3	1,228.1	330.0	252.5	77.52	4.257		
9,700.0	7,500.0	9,752.4	7,500.0	43.4	45.8	90.00	2,080.3	1,228.1	330.0	249.2	80.83	4.083		
9,800.0	7,500.0	9,852.4	7,500.0	44.9	47.3	90.00	2,180.3	1,228.1	330.0	245.8	84.16	3.921		
9,900.0	7,500.0	9,952.4	7,500.0	46.5	48.7	90.00	2,280.3	1,228.1	330.0	242.5	87.50	3.772		
10,000.0	7,500.0	10,052.4	7,500.0	48.1	50.3	90.00	2,380.3	1,228.1	330.0	239.2	90.85	3.632		
10,100.0	7,500.0	10,152.4	7,500.0	49.7	51.8	90.00	2,480.3	1,228.1	330.0	235.8	94.21	3.503		
10,200.0	7,500.0	10,252.4	7,500.0	51.3	53.3	90.00	2,580.3	1,228.1	330.0	232.4	97.58	3.382		
10,300.0	7,500.0	10,352.4	7,500.0	52.9	54.9	90.00	2,680.3	1,228.1	330.0	229.0	100.97	3.268		
10,400.0	7,500.0	10,452.4	7,500.0	54.5	56.4	90.00	2,780.3	1,228.1	330.0	225.6	104.36	3.162		
10,500.0	7,500.0	10,552.4	7,500.0	56.1	58.0	90.00	2,880.3	1,228.1	330.0	222.2	107.76	3.062		
10,600.0	7,500.0	10,652.4	7,500.0	57.8	59.6	90.00	2,980.3	1,228.1	330.0	218.8	111.16	2.969		
10,700.0	7,500.0	10,752.4	7,500.0	59.4	61.2	90.00	3,080.3	1,228.1	330.0	215.4	114.57	2.880		
10,800.0	7,500.0	10,852.4	7,500.0	61.1	62.8	90.00	3,180.3	1,228.1	330.0	212.0	117.99	2.797		
10,900.0	7,500.0	10,952.4	7,500.0	62.7	64.4	90.00	3,280.3	1,228.1	330.0	208.6	121.41	2.718		
11,000.0	7,500.0	11,052.4	7,500.0	64.4	66.0	90.00	3,380.3	1,228.1	330.0	205.2	124.84	2.643		
11,100.0	7,500.0	11,152.4	7,500.0	66.0	67.6	90.00	3,480.3	1,228.1	330.0	201.7	128.27	2.573		
11,200.0	7,500.0	11,252.4	7,500.0	67.7	69.3	90.00	3,580.3	1,228.1	330.0	198.3	131.71	2.506		
11,300.0	7,500.0	11,352.4	7,500.0	69.4	70.9	90.00	3,680.3	1,228.1	330.0	194.9	135.14	2.442		
11,400.0	7,500.0	11,452.4	7,500.0	71.1	72.5	90.00	3,780.3	1,228.1	330.0	191.4	138.59	2.381		
11,500.0	7,500.0	11,552.4	7,500.0	72.7	74.2	90.00	3,880.3	1,228.1	330.0	188.0	142.03	2.323		
11,600.0	7,500.0	11,652.4	7,500.0	74.4	75.8	90.00	3,980.3	1,228.1	330.0	184.5	145.48	2.268		
11,700.0	7,500.0	11,752.4	7,500.0	76.1	77.5	90.00	4,080.3	1,228.1	330.0	181.1	148.93	2.216		
11,800.0	7,500.0	11,852.4	7,500.0	77.8	79.2	90.00	4,180.3	1,228.1	330.0	177.6	152.39	2.166		
11,874.8	7,500.0	11,927.2	7,500.0	79.1	80.4	90.00	4,255.2	1,228.1	330.0	175.0	154.97	2.129		
11,878.1	7,500.0	11,927.8	7,500.0	79.1	80.4	90.00	4,255.7	1,228.1	330.0	174.7	155.33	2.125 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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1														Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD															
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.94	-0.3	19.9	19.9						
100.0	100.0	100.0	100.0	0.1	0.1	90.94	-0.3	19.9	19.9	19.6	0.30	66.960			
200.0	200.0	200.0	200.0	0.3	0.3	90.94	-0.3	19.9	19.9	19.2	0.65	30.766			
300.0	300.0	300.0	300.0	0.5	0.5	90.94	-0.3	19.9	19.9	18.9	0.99	19.971	CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	91.58	-0.6	20.7	20.7	19.4	1.34	15.416			
500.0	500.0	499.3	499.2	0.8	0.9	-21.65	-1.3	23.2	22.4	20.7	1.69	13.257			
600.0	600.0	598.9	598.7	1.0	1.0	-21.44	-2.5	27.3	24.2	22.2	2.04	11.865			
700.0	699.9	698.4	698.1	1.2	1.2	-21.75	-4.3	33.1	26.1	23.7	2.39	10.901			
800.0	799.7	798.0	797.3	1.4	1.4	-22.46	-6.5	40.6	28.0	25.2	2.74	10.198			
900.0	899.4	897.4	896.4	1.6	1.7	-23.50	-9.2	49.7	30.0	26.9	3.10	9.664			
1,000.0	998.9	996.9	995.2	1.8	1.9	-24.80	-12.3	60.5	32.0	28.6	3.46	9.244			
1,100.0	1,098.3	1,096.3	1,093.8	2.1	2.2	-26.31	-16.0	72.8	34.2	30.3	3.84	8.901			
1,200.0	1,197.4	1,195.7	1,192.1	2.3	2.5	-27.96	-20.1	86.9	36.5	32.2	4.23	8.610			
1,237.8	1,234.9	1,233.3	1,229.2	2.4	2.6	-28.62	-21.8	92.6	37.3	33.0	4.39	8.510			
1,300.0	1,296.4	1,295.1	1,290.1	2.6	2.8	-29.49	-24.8	102.5	39.1	34.5	4.64	8.427			
1,400.0	1,395.3	1,394.3	1,387.7	2.9	3.1	-30.01	-29.9	119.8	43.3	38.3	5.06	8.570			
1,500.0	1,494.2	1,493.4	1,484.8	3.2	3.5	-29.66	-35.4	138.6	49.1	43.7	5.46	8.999			
1,600.0	1,593.2	1,592.9	1,582.0	3.5	3.9	-28.87	-41.4	158.8	56.2	50.3	5.85	9.593			
1,700.0	1,692.1	1,692.6	1,679.5	3.8	4.3	-28.22	-47.4	179.1	63.3	57.1	6.25	10.124			
1,800.0	1,791.0	1,792.4	1,777.0	4.1	4.7	-27.70	-53.4	199.5	70.5	63.8	6.65	10.590			
1,900.0	1,890.0	1,892.1	1,874.4	4.4	5.1	-27.28	-59.4	219.8	77.6	70.6	7.05	11.004			
2,000.0	1,988.9	1,991.9	1,971.9	4.7	5.5	-26.93	-65.5	240.1	84.8	77.3	7.45	11.373			
2,100.0	2,087.8	2,091.6	2,069.4	5.0	5.9	-26.63	-71.5	260.4	92.0	84.1	7.86	11.705			
2,200.0	2,186.7	2,191.3	2,166.8	5.3	6.3	-26.38	-77.5	280.8	99.1	90.9	8.26	12.004			
2,300.0	2,285.7	2,291.1	2,264.3	5.6	6.7	-26.16	-83.5	301.1	106.3	97.6	8.66	12.275			
2,400.0	2,384.6	2,390.8	2,361.7	5.9	7.1	-25.97	-89.5	321.4	113.5	104.4	9.06	12.522			
2,500.0	2,483.5	2,490.6	2,459.2	6.2	7.5	-25.80	-95.5	341.8	120.6	111.2	9.46	12.748			
2,600.0	2,582.5	2,590.3	2,556.7	6.5	7.9	-25.65	-101.5	362.1	127.8	117.9	9.87	12.955			
2,700.0	2,681.4	2,690.1	2,654.1	6.8	8.3	-25.52	-107.5	382.4	135.0	124.7	10.27	13.146			
2,800.0	2,780.3	2,789.8	2,751.6	7.1	8.7	-25.40	-113.5	402.7	142.1	131.5	10.67	13.323			
2,900.0	2,879.3	2,889.5	2,849.1	7.4	9.1	-25.29	-119.6	423.1	149.3	138.3	11.07	13.486			
3,000.0	2,978.2	2,989.3	2,946.5	7.7	9.6	-25.19	-125.6	443.4	156.5	145.0	11.47	13.638			
3,100.0	3,077.1	3,089.0	3,044.0	8.0	10.0	-25.10	-131.6	463.7	163.7	151.8	11.88	13.780			
3,200.0	3,176.1	3,188.8	3,141.4	8.3	10.4	-25.02	-137.6	484.1	170.8	158.6	12.28	13.912			
3,300.0	3,275.0	3,288.5	3,238.9	8.7	10.8	-24.94	-143.6	504.4	178.0	165.3	12.68	14.036			
3,400.0	3,373.9	3,388.3	3,336.4	9.0	11.2	-24.87	-149.6	524.7	185.2	172.1	13.09	14.152			
3,500.0	3,472.9	3,488.0	3,433.8	9.3	11.6	-24.81	-155.6	545.0	192.4	178.9	13.49	14.262			
3,600.0	3,571.8	3,587.7	3,531.3	9.6	12.0	-24.75	-161.6	565.4	199.6	185.7	13.89	14.364			
3,700.0	3,670.7	3,687.5	3,628.8	9.9	12.4	-24.69	-167.6	585.7	206.7	192.4	14.30	14.462			
3,800.0	3,769.7	3,787.2	3,726.2	10.2	12.9	-24.64	-173.7	606.0	213.9	199.2	14.70	14.553			
3,900.0	3,868.6	3,887.0	3,823.7	10.5	13.3	-24.59	-179.7	626.3	221.1	206.0	15.10	14.640			
4,000.0	3,967.5	3,986.7	3,921.2	10.8	13.7	-24.55	-185.7	646.7	228.3	212.8	15.50	14.722			
4,100.0	4,066.5	4,086.4	4,018.6	11.1	14.1	-24.50	-191.7	667.0	235.4	219.5	15.91	14.800			
4,200.0	4,165.4	4,186.2	4,116.1	11.4	14.5	-24.46	-197.7	687.3	242.6	226.3	16.31	14.874			
4,300.0	4,264.3	4,285.9	4,213.5	11.7	14.9	-24.42	-203.7	707.7	249.8	233.1	16.71	14.945			
4,400.0	4,363.3	4,385.7	4,311.0	12.1	15.3	-24.39	-209.7	728.0	257.0	239.9	17.12	15.012			
4,500.0	4,462.2	4,485.4	4,408.5	12.4	15.8	-24.35	-215.7	748.3	264.2	246.6	17.52	15.076			
4,600.0	4,561.1	4,585.2	4,505.9	12.7	16.2	-24.32	-221.7	768.6	271.3	253.4	17.92	15.137			
4,700.0	4,660.1	4,684.9	4,603.4	13.0	16.6	-24.29	-227.7	789.0	278.5	260.2	18.33	15.196			
4,800.0	4,759.0	4,784.6	4,700.9	13.3	17.0	-24.26	-233.8	809.3	285.7	267.0	18.73	15.252			
4,900.0	4,857.9	4,884.4	4,798.3	13.6	17.4	-24.23	-239.8	829.6	292.9	273.7	19.13	15.305			
5,000.0	4,956.9	4,984.1	4,895.8	13.9	17.8	-24.21	-245.8	850.0	300.0	280.5	19.54	15.356			

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft		
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft	
Reference													Distance		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)								
5,100.0	5,055.8	5,083.9	4,993.2	14.2	18.2	-24.18	-251.8	870.3	307.2	287.3	19.94	15.406				
5,200.0	5,154.7	5,183.6	5,090.7	14.5	18.7	-24.16	-257.8	890.6	314.4	294.1	20.35	15.453				
5,300.0	5,253.7	5,283.3	5,188.2	14.8	19.1	-24.14	-263.8	910.9	321.6	300.8	20.75	15.498				
5,400.0	5,352.6	5,383.1	5,285.6	15.1	19.5	-24.12	-269.8	931.3	328.8	307.6	21.15	15.542				
5,500.0	5,451.5	5,482.8	5,383.1	15.5	19.9	-24.09	-275.8	951.6	335.9	314.4	21.56	15.584				
5,600.0	5,550.5	5,582.6	5,480.6	15.8	20.3	-24.07	-281.8	971.9	343.1	321.2	21.96	15.625				
5,700.0	5,649.4	5,682.3	5,578.0	16.1	20.7	-24.06	-287.9	992.3	350.3	327.9	22.36	15.664				
5,800.0	5,748.3	5,782.1	5,675.5	16.4	21.1	-24.04	-293.9	1,012.6	357.5	334.7	22.77	15.701				
5,900.0	5,847.3	5,881.8	5,773.0	16.7	21.6	-24.02	-299.9	1,032.9	364.6	341.5	23.17	15.738				
6,000.0	5,946.2	5,981.5	5,870.4	17.0	22.0	-24.00	-305.9	1,053.2	371.8	348.3	23.57	15.773				
6,100.0	6,045.1	6,081.3	5,967.9	17.3	22.4	-23.99	-311.9	1,073.6	379.0	355.0	23.98	15.807				
6,200.0	6,144.1	6,181.0	6,065.3	17.6	22.8	-23.97	-317.9	1,093.9	386.2	361.8	24.38	15.839				
6,300.0	6,243.0	6,280.8	6,162.8	17.9	23.2	-23.95	-323.9	1,114.2	393.4	368.6	24.78	15.871				
6,400.0	6,341.9	6,380.5	6,260.3	18.2	23.6	-23.94	-329.9	1,134.6	400.5	375.4	25.19	15.902				
6,500.0	6,440.9	6,480.3	6,357.7	18.5	24.0	-23.93	-335.9	1,154.9	407.7	382.1	25.59	15.932				
6,600.0	6,539.8	6,580.0	6,455.2	18.9	24.5	-23.91	-342.0	1,175.2	414.9	388.9	26.00	15.960				
6,700.0	6,638.7	6,679.7	6,552.7	19.2	24.9	-23.90	-348.0	1,195.5	422.1	395.7	26.40	15.988				
6,800.0	6,737.7	6,779.5	6,650.1	19.5	25.3	-23.89	-354.0	1,215.9	429.3	402.5	26.80	16.015				
6,810.4	6,748.0	6,789.9	6,660.3	19.5	25.3	-23.89	-354.6	1,218.0	430.0	403.2	26.85	16.018				
6,850.0	6,787.2	6,829.3	6,698.8	19.6	25.5	-1.90	-357.0	1,226.0	432.8	405.9	26.95	16.064				
6,900.0	6,836.7	6,879.0	6,747.4	19.7	25.7	26.19	-360.0	1,236.1	436.5	409.5	26.93	16.209				
6,950.0	6,886.0	6,928.8	6,796.1	19.8	25.9	45.92	-361.8	1,246.3	440.1	413.4	26.78	16.433				
7,000.0	6,934.8	6,979.2	6,845.4	19.9	26.1	57.99	-360.3	1,256.6	443.9	417.3	26.62	16.679				
7,050.0	6,982.9	7,030.1	6,894.9	20.0	26.3	65.65	-355.1	1,266.9	447.7	421.3	26.43	16.937				
7,100.0	7,030.1	7,081.5	6,944.5	20.0	26.4	70.86	-346.2	1,277.3	451.6	425.3	26.26	17.198				
7,150.0	7,076.1	7,133.4	6,993.8	20.1	26.5	74.64	-333.6	1,287.5	455.4	429.3	26.09	17.453				
7,200.0	7,120.8	7,185.9	7,042.6	20.1	26.7	77.51	-317.2	1,297.7	459.2	433.3	25.96	17.690				
7,250.0	7,163.8	7,239.0	7,090.6	20.1	26.8	79.78	-296.9	1,307.7	463.0	437.1	25.86	17.902				
7,300.0	7,205.0	7,292.5	7,137.4	20.2	26.9	81.63	-272.8	1,317.5	466.7	440.9	25.81	18.078				
7,350.0	7,244.1	7,346.6	7,182.8	20.2	27.0	83.16	-245.0	1,327.0	470.3	444.4	25.82	18.213				
7,400.0	7,281.1	7,401.3	7,226.4	20.2	27.1	84.45	-213.3	1,336.1	473.7	447.8	25.88	18.300				
7,450.0	7,315.7	7,456.4	7,267.9	20.3	27.2	85.54	-178.1	1,344.7	477.0	450.9	26.01	18.334				
7,500.0	7,347.7	7,512.1	7,306.9	20.3	27.3	86.47	-139.3	1,352.8	480.0	453.8	26.21	18.316				
7,550.0	7,377.0	7,568.2	7,343.1	20.4	27.4	87.26	-97.1	1,360.4	482.9	456.4	26.47	18.245				
7,600.0	7,403.4	7,624.7	7,376.3	20.5	27.5	87.94	-51.9	1,367.3	485.5	458.7	26.79	18.122				
7,650.0	7,426.8	7,681.6	7,406.1	20.6	27.7	88.50	-3.8	1,373.5	487.8	460.7	27.12	17.984				
7,700.0	7,447.2	7,738.9	7,432.1	20.8	27.8	88.97	46.9	1,379.0	489.8	462.3	27.57	17.765				
7,750.0	7,464.3	7,796.5	7,454.3	20.9	28.0	89.35	99.9	1,383.6	491.6	463.5	28.06	17.521				
7,800.0	7,478.2	7,854.3	7,472.2	21.2	28.2	89.63	154.7	1,387.3	492.9	464.4	28.58	17.245				
7,850.0	7,488.7	7,912.4	7,485.8	21.4	28.4	89.84	211.0	1,390.2	494.0	464.8	29.16	16.940				
7,900.0	7,495.8	7,970.5	7,494.9	21.6	28.6	89.96	268.4	1,392.1	494.7	464.9	29.78	16.611				
7,950.0	7,499.5	8,028.7	7,499.5	21.9	28.8	90.01	326.4	1,393.0	495.0	464.5	30.44	16.262				
7,978.1	7,500.0	8,060.7	7,500.0	22.1	29.0	90.00	358.4	1,393.1	495.0	464.2	30.84	16.052				
8,000.0	7,500.0	8,082.7	7,500.0	22.2	29.1	90.00	380.3	1,393.1	495.0	463.8	31.25	15.842				
8,100.0	7,500.0	8,182.7	7,500.0	23.0	29.6	90.00	480.3	1,393.1	495.0	461.7	33.27	14.878				
8,200.0	7,500.0	8,282.7	7,500.0	23.8	30.3	90.00	580.3	1,393.1	495.0	459.5	35.52	13.936				
8,300.0	7,500.0	8,382.7	7,500.0	24.7	31.0	90.00	680.3	1,393.1	495.0	457.0	37.96	13.040				
8,400.0	7,500.0	8,482.7	7,500.0	25.7	31.8	90.00	780.3	1,393.1	495.0	454.4	40.56	12.205				
8,500.0	7,500.0	8,582.7	7,500.0	26.8	32.7	90.00	880.3	1,393.1	495.0	451.7	43.29	11.436				
8,600.0	7,500.0	8,682.7	7,500.0	27.9	33.6	90.00	980.3	1,393.1	495.0	448.9	46.12	10.734				
8,700.0	7,500.0	8,782.7	7,500.0	29.2	34.6	90.00	1,080.3	1,393.1	495.0	446.0	49.04	10.094				
8,800.0	7,500.0	8,882.7	7,500.0	30.4	35.7	90.00	1,180.3	1,393.1	495.0	443.0	52.03	9.514				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,900.0	7,500.0	8,982.7	7,500.0	31.7	36.8	90.00	1,280.3	1,393.1	495.0	439.9	55.08	8.986		
9,000.0	7,500.0	9,082.7	7,500.0	33.1	38.0	90.00	1,380.3	1,393.1	495.0	436.8	58.19	8.507		
9,100.0	7,500.0	9,182.7	7,500.0	34.5	39.2	90.00	1,480.3	1,393.1	495.0	433.7	61.34	8.070		
9,200.0	7,500.0	9,282.7	7,500.0	35.9	40.4	90.00	1,580.3	1,393.1	495.0	430.5	64.52	7.672		
9,300.0	7,500.0	9,382.7	7,500.0	37.4	41.7	90.00	1,680.3	1,393.1	495.0	427.3	67.74	7.307		
9,400.0	7,500.0	9,482.7	7,500.0	38.8	43.0	90.00	1,780.3	1,393.1	495.0	424.0	70.98	6.973		
9,500.0	7,500.0	9,582.7	7,500.0	40.3	44.4	90.00	1,880.3	1,393.1	495.0	420.7	74.25	6.666		
9,600.0	7,500.0	9,682.7	7,500.0	41.8	45.8	90.00	1,980.3	1,393.1	495.0	417.5	77.54	6.384		
9,700.0	7,500.0	9,782.7	7,500.0	43.4	47.2	90.00	2,080.3	1,393.1	495.0	414.2	80.85	6.122		
9,800.0	7,500.0	9,882.7	7,500.0	44.9	48.6	90.00	2,180.3	1,393.1	495.0	410.8	84.18	5.881		
9,900.0	7,500.0	9,982.7	7,500.0	46.5	50.0	90.00	2,280.3	1,393.1	495.0	407.5	87.51	5.656		
10,000.0	7,500.0	10,082.7	7,500.0	48.1	51.5	90.00	2,380.3	1,393.1	495.0	404.1	90.87	5.448		
10,100.0	7,500.0	10,182.7	7,500.0	49.7	53.0	90.00	2,480.3	1,393.1	495.0	400.8	94.23	5.253		
10,200.0	7,500.0	10,282.7	7,500.0	51.3	54.5	90.00	2,580.3	1,393.1	495.0	397.4	97.60	5.072		
10,300.0	7,500.0	10,382.7	7,500.0	52.9	56.0	90.00	2,680.3	1,393.1	495.0	394.0	100.98	4.902		
10,400.0	7,500.0	10,482.7	7,500.0	54.5	57.6	90.00	2,780.3	1,393.1	495.0	390.6	104.37	4.743		
10,500.0	7,500.0	10,582.7	7,500.0	56.1	59.1	90.00	2,880.3	1,393.1	495.0	387.2	107.77	4.593		
10,600.0	7,500.0	10,682.7	7,500.0	57.8	60.6	90.00	2,980.3	1,393.1	495.0	383.8	111.18	4.452		
10,700.0	7,500.0	10,782.7	7,500.0	59.4	62.2	90.00	3,080.3	1,393.1	495.0	380.4	114.59	4.320		
10,800.0	7,500.0	10,882.7	7,500.0	61.1	63.8	90.00	3,180.3	1,393.1	495.0	377.0	118.01	4.195		
10,900.0	7,500.0	10,982.7	7,500.0	62.7	65.4	90.00	3,280.3	1,393.1	495.0	373.6	121.43	4.077		
11,000.0	7,500.0	11,082.7	7,500.0	64.4	67.0	90.00	3,380.3	1,393.1	495.0	370.1	124.85	3.965		
11,100.0	7,500.0	11,182.7	7,500.0	66.0	68.6	90.00	3,480.3	1,393.1	495.0	366.7	128.29	3.859		
11,200.0	7,500.0	11,282.7	7,500.0	67.7	70.2	90.00	3,580.3	1,393.1	495.0	363.3	131.72	3.758		
11,300.0	7,500.0	11,382.7	7,500.0	69.4	71.8	90.00	3,680.3	1,393.1	495.0	359.8	135.16	3.662		
11,400.0	7,500.0	11,482.7	7,500.0	71.1	73.4	90.00	3,780.3	1,393.1	495.0	356.4	138.60	3.571		
11,500.0	7,500.0	11,582.7	7,500.0	72.7	75.0	90.00	3,880.3	1,393.1	495.0	353.0	142.05	3.485		
11,600.0	7,500.0	11,682.7	7,500.0	74.4	76.7	90.00	3,980.3	1,393.1	495.0	349.5	145.50	3.402		
11,700.0	7,500.0	11,782.7	7,500.0	76.1	78.3	90.00	4,080.3	1,393.1	495.0	346.1	148.95	3.323		
11,800.0	7,500.0	11,882.7	7,500.0	77.8	80.0	90.00	4,180.3	1,393.1	495.0	342.6	152.40	3.248		
11,874.0	7,500.0	11,956.7	7,500.0	79.1	81.2	90.00	4,254.3	1,393.1	495.0	340.0	154.96	3.194		
11,878.1	7,500.0	11,956.7	7,500.0	79.1	81.2	90.00	4,254.3	1,393.1	495.0	339.7	155.34	3.187 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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.66	-0.3	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.66	-0.3	29.9	29.9	29.6	0.30	100.905		
200.0	200.0	200.0	200.0	0.3	0.3	90.66	-0.3	29.9	29.9	29.3	0.65	46.362		
203.3	203.3	203.3	203.3	0.3	0.3	90.66	-0.3	29.9	29.9	29.3	0.66	45.538 CC		
300.0	300.0	299.7	299.7	0.5	0.5	90.76	-0.4	30.1	30.1	29.2	0.99	30.320 ES		
400.0	400.0	399.2	399.2	0.7	0.7	91.52	-0.8	31.8	31.8	30.5	1.34	23.716		
500.0	500.0	498.6	498.5	0.8	0.9	-21.79	-1.7	35.1	34.4	32.7	1.69	20.357		
600.0	600.0	598.0	597.8	1.0	1.0	-21.53	-3.1	40.1	37.1	35.0	2.04	18.178		
700.0	699.9	697.3	696.8	1.2	1.2	-21.68	-4.8	46.8	39.8	37.4	2.39	16.657		
800.0	799.7	796.6	795.7	1.4	1.5	-22.18	-7.1	55.1	42.6	39.8	2.74	15.537		
900.0	899.4	895.8	894.4	1.6	1.7	-22.94	-9.7	65.1	45.4	42.3	3.10	14.678		
1,000.0	998.9	994.9	992.8	1.8	2.0	-23.93	-12.8	76.7	48.4	44.9	3.46	13.995		
1,100.0	1,098.3	1,094.1	1,091.0	2.1	2.2	-25.09	-16.3	89.9	51.4	47.6	3.83	13.432		
1,200.0	1,197.4	1,193.1	1,188.9	2.3	2.5	-26.39	-20.3	104.8	54.6	50.4	4.22	12.952		
1,237.8	1,234.9	1,230.6	1,225.8	2.4	2.7	-26.91	-21.9	110.8	55.8	51.5	4.37	12.786		
1,300.0	1,296.4	1,292.1	1,286.4	2.6	2.9	-27.66	-24.7	121.3	58.2	53.6	4.62	12.604		
1,400.0	1,395.3	1,391.0	1,383.5	2.9	3.2	-28.31	-29.5	139.4	63.3	58.3	5.02	12.608		
1,500.0	1,494.2	1,489.7	1,480.0	3.2	3.6	-28.40	-34.8	159.0	70.0	64.6	5.42	12.917		
1,600.0	1,593.2	1,588.1	1,576.0	3.5	4.0	-28.05	-40.4	180.2	78.4	72.6	5.82	13.476		
1,700.0	1,692.1	1,687.5	1,672.6	3.8	4.5	-27.54	-46.4	202.7	87.8	81.6	6.22	14.127		
1,800.0	1,791.0	1,787.0	1,769.4	4.1	4.9	-27.12	-52.4	225.2	97.2	90.6	6.62	14.698		
1,900.0	1,890.0	1,886.6	1,866.2	4.4	5.3	-26.77	-58.4	247.7	106.7	99.7	7.02	15.203		
2,000.0	1,988.9	1,986.1	1,963.0	4.7	5.8	-26.49	-64.4	270.2	116.1	108.7	7.42	15.654		
2,100.0	2,087.8	2,085.7	2,059.7	5.0	6.2	-26.24	-70.4	292.7	125.6	117.7	7.82	16.058		
2,200.0	2,186.7	2,185.2	2,156.5	5.3	6.6	-26.03	-76.4	315.2	135.0	126.8	8.22	16.423		
2,300.0	2,285.7	2,284.8	2,253.3	5.6	7.1	-25.85	-82.4	337.8	144.5	135.8	8.62	16.753		
2,400.0	2,384.6	2,384.3	2,350.1	5.9	7.5	-25.69	-88.4	360.3	153.9	144.9	9.02	17.053		
2,500.0	2,483.5	2,483.9	2,446.9	6.2	8.0	-25.54	-94.4	382.8	163.4	153.9	9.43	17.328		
2,600.0	2,582.5	2,583.4	2,543.7	6.5	8.4	-25.42	-100.4	405.3	172.8	163.0	9.83	17.580		
2,700.0	2,681.4	2,683.0	2,640.5	6.8	8.9	-25.30	-106.4	427.8	182.3	172.0	10.23	17.812		
2,800.0	2,780.3	2,782.6	2,737.3	7.1	9.3	-25.20	-112.4	450.3	191.7	181.1	10.63	18.027		
2,900.0	2,879.3	2,882.1	2,834.0	7.4	9.7	-25.11	-118.4	472.8	201.2	190.1	11.04	18.226		
3,000.0	2,978.2	2,981.7	2,930.8	7.7	10.2	-25.03	-124.4	495.3	210.6	199.2	11.44	18.410		
3,100.0	3,077.1	3,081.2	3,027.6	8.0	10.6	-24.95	-130.4	517.9	220.1	208.2	11.84	18.582		
3,200.0	3,176.1	3,180.8	3,124.4	8.3	11.1	-24.88	-136.4	540.4	229.5	217.3	12.25	18.743		
3,300.0	3,275.0	3,280.3	3,221.2	8.7	11.5	-24.81	-142.4	562.9	239.0	226.3	12.65	18.893		
3,400.0	3,373.9	3,379.9	3,318.0	9.0	12.0	-24.75	-148.4	585.4	248.4	235.4	13.05	19.034		
3,500.0	3,472.9	3,479.4	3,414.8	9.3	12.4	-24.70	-154.4	607.9	257.9	244.4	13.46	19.166		
3,600.0	3,571.8	3,579.0	3,511.5	9.6	12.9	-24.64	-160.4	630.4	267.3	253.5	13.86	19.291		
3,700.0	3,670.7	3,678.5	3,608.3	9.9	13.3	-24.60	-166.4	652.9	276.8	262.5	14.26	19.408		
3,800.0	3,769.7	3,778.1	3,705.1	10.2	13.8	-24.55	-172.4	675.4	286.3	271.6	14.67	19.519		
3,900.0	3,868.6	3,877.6	3,801.9	10.5	14.2	-24.51	-178.4	698.0	295.7	280.6	15.07	19.624		
4,000.0	3,967.5	3,977.2	3,898.7	10.8	14.7	-24.47	-184.4	720.5	305.2	289.7	15.47	19.724		
4,100.0	4,066.5	4,076.7	3,995.5	11.1	15.1	-24.43	-190.4	743.0	314.6	298.8	15.88	19.818		
4,200.0	4,165.4	4,176.3	4,092.3	11.4	15.6	-24.40	-196.4	765.5	324.1	307.8	16.28	19.908		
4,300.0	4,264.3	4,275.8	4,189.1	11.7	16.0	-24.36	-202.4	788.0	333.5	316.9	16.68	19.993		
4,400.0	4,363.3	4,375.4	4,285.8	12.1	16.5	-24.33	-208.4	810.5	343.0	325.9	17.09	20.075		
4,500.0	4,462.2	4,474.9	4,382.6	12.4	16.9	-24.30	-214.4	833.0	352.5	335.0	17.49	20.152		
4,600.0	4,561.1	4,574.5	4,479.4	12.7	17.4	-24.28	-220.5	855.5	361.9	344.0	17.89	20.226		
4,700.0	4,660.1	4,674.0	4,576.2	13.0	17.8	-24.25	-226.5	878.1	371.4	353.1	18.30	20.297		
4,800.0	4,759.0	4,773.6	4,673.0	13.3	18.3	-24.22	-232.5	900.6	380.8	362.1	18.70	20.365		
4,900.0	4,857.9	4,873.1	4,769.8	13.6	18.7	-24.20	-238.5	923.1	390.3	371.2	19.10	20.429		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1														Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft	
Reference				Offset				Semi Major Axis			Distance			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	4,956.9	4,972.7	4,866.6	13.9	19.2	-24.18	-244.5	945.6	399.7	380.2	19.51	20.492				
5,100.0	5,055.8	5,072.2	4,963.4	14.2	19.6	-24.15	-250.5	968.1	409.2	389.3	19.91	20.551				
5,200.0	5,154.7	5,171.8	5,060.1	14.5	20.1	-24.13	-256.5	990.6	418.7	398.3	20.31	20.608				
5,300.0	5,253.7	5,271.3	5,156.9	14.8	20.5	-24.11	-262.5	1,013.1	428.1	407.4	20.72	20.663				
5,400.0	5,352.6	5,370.9	5,253.7	15.1	21.0	-24.09	-268.5	1,035.6	437.6	416.4	21.12	20.716				
5,500.0	5,451.5	5,470.4	5,350.5	15.5	21.4	-24.08	-274.5	1,058.2	447.0	425.5	21.53	20.767				
5,600.0	5,550.5	5,570.0	5,447.3	15.8	21.9	-24.06	-280.5	1,080.7	456.5	434.6	21.93	20.816				
5,700.0	5,649.4	5,669.6	5,544.1	16.1	22.3	-24.04	-286.5	1,103.2	465.9	443.6	22.33	20.863				
5,800.0	5,748.3	5,769.1	5,640.9	16.4	22.8	-24.03	-292.5	1,125.7	475.4	452.7	22.74	20.909				
5,900.0	5,847.3	5,868.7	5,737.6	16.7	23.2	-24.01	-298.5	1,148.2	484.9	461.7	23.14	20.952				
6,000.0	5,946.2	5,968.2	5,834.4	17.0	23.7	-24.00	-304.5	1,170.7	494.3	470.8	23.54	20.995				
6,100.0	6,045.1	6,067.8	5,931.2	17.3	24.1	-23.98	-310.5	1,193.2	503.8	479.8	23.95	21.036				
6,200.0	6,144.1	6,167.3	6,028.0	17.6	24.6	-23.97	-316.5	1,215.7	513.2	488.9	24.35	21.075				
6,300.0	6,243.0	6,266.9	6,124.8	17.9	25.0	-23.95	-322.5	1,238.3	522.7	497.9	24.76	21.114				
6,400.0	6,341.9	6,366.4	6,221.6	18.2	25.5	-23.94	-328.5	1,260.8	532.1	507.0	25.16	21.151				
6,500.0	6,440.9	6,466.0	6,318.4	18.5	25.9	-23.93	-334.5	1,283.3	541.6	516.0	25.56	21.187				
6,600.0	6,539.8	6,565.5	6,415.2	18.9	26.4	-23.92	-340.5	1,305.8	551.1	525.1	25.97	21.221				
6,700.0	6,638.7	6,665.1	6,511.9	19.2	26.8	-23.91	-346.5	1,328.3	560.5	534.1	26.37	21.255				
6,800.0	6,737.7	6,764.6	6,608.7	19.5	27.3	-23.89	-352.5	1,350.8	570.0	543.2	26.77	21.288				
6,810.4	6,748.0	6,775.0	6,618.8	19.5	27.3	-23.89	-353.1	1,353.2	571.0	544.1	26.82	21.291				
6,850.0	6,787.2	6,814.4	6,657.1	19.6	27.5	-2.02	-355.5	1,362.1	574.7	547.8	26.93	21.344				
6,900.0	6,836.7	6,863.9	6,705.3	19.7	27.7	25.84	-358.5	1,373.3	579.4	552.5	26.94	21.509				
6,950.0	6,886.0	6,913.1	6,753.0	19.8	28.0	45.36	-361.4	1,384.4	584.2	557.4	26.83	21.776				
7,000.0	6,934.8	6,962.7	6,801.4	19.9	28.2	57.42	-363.2	1,395.6	589.2	562.5	26.63	22.121				
7,050.0	6,982.9	7,013.2	6,850.6	20.0	28.4	65.09	-361.5	1,407.1	594.2	567.8	26.42	22.487				
7,100.0	7,030.1	7,064.6	6,900.2	20.0	28.6	70.32	-356.1	1,418.6	599.3	573.1	26.22	22.856				
7,150.0	7,076.1	7,116.7	6,950.2	20.1	28.8	74.11	-346.9	1,430.2	604.5	578.4	26.04	23.213				
7,200.0	7,120.8	7,169.6	7,000.2	20.1	28.9	77.01	-333.8	1,441.9	609.6	583.7	25.89	23.544				
7,250.0	7,163.8	7,223.4	7,049.8	20.1	29.1	79.31	-316.6	1,453.4	614.8	589.0	25.79	23.834				
7,300.0	7,205.0	7,278.1	7,098.9	20.2	29.2	81.19	-295.3	1,464.8	619.8	594.1	25.75	24.070				
7,350.0	7,244.1	7,333.7	7,146.9	20.2	29.3	82.76	-269.8	1,476.0	624.8	599.0	25.77	24.242				
7,400.0	7,281.1	7,390.2	7,193.7	20.2	29.5	84.09	-240.0	1,486.9	629.6	603.7	25.86	24.346				
7,450.0	7,315.7	7,447.6	7,238.6	20.3	29.6	85.22	-205.9	1,497.3	634.2	608.1	26.01	24.379				
7,500.0	7,347.7	7,505.9	7,281.4	20.3	29.7	86.20	-167.7	1,507.3	638.5	612.3	26.24	24.337				
7,550.0	7,377.0	7,565.0	7,321.6	20.4	29.8	87.04	-125.3	1,516.6	642.6	616.0	26.52	24.226				
7,600.0	7,403.4	7,624.9	7,358.7	20.5	30.0	87.76	-79.1	1,525.3	646.3	619.4	26.87	24.052				
7,650.0	7,426.8	7,685.5	7,392.3	20.6	30.1	88.36	-29.3	1,533.1	649.6	622.3	27.28	23.812				
7,700.0	7,447.2	7,746.9	7,422.0	20.8	30.3	88.87	23.9	1,540.0	652.5	624.9	27.68	23.572				
7,750.0	7,464.3	7,808.8	7,447.4	20.9	30.5	89.28	80.0	1,545.9	655.0	626.8	28.18	23.246				
7,800.0	7,478.2	7,871.2	7,468.0	21.2	30.6	89.60	138.7	1,550.7	657.0	628.3	28.70	22.891				
7,850.0	7,488.7	7,933.9	7,483.8	21.4	30.9	89.82	199.3	1,554.3	658.5	629.3	29.26	22.505				
7,900.0	7,495.8	7,997.0	7,494.3	21.6	31.1	89.96	261.4	1,556.8	659.5	629.7	29.85	22.094				
7,950.0	7,499.5	8,060.2	7,499.4	21.9	31.3	90.01	324.4	1,558.0	660.0	629.5	30.48	21.654				
7,978.1	7,500.0	8,094.2	7,500.0	22.1	31.5	90.00	358.4	1,558.1	660.0	629.1	30.87	21.381				
8,000.0	7,500.0	8,116.1	7,500.0	22.2	31.6	90.00	380.3	1,558.1	660.0	628.7	31.28	21.097				
8,100.0	7,500.0	8,216.1	7,500.0	23.0	32.1	90.00	480.3	1,558.1	660.0	626.7	33.30	19.820				
8,200.0	7,500.0	8,316.1	7,500.0	23.8	32.6	90.00	580.3	1,558.1	660.0	624.5	35.55	18.566				
8,300.0	7,500.0	8,416.1	7,500.0	24.7	33.3	90.00	680.3	1,558.1	660.0	622.0	37.99	17.374				
8,400.0	7,500.0	8,516.1	7,500.0	25.7	34.1	90.00	780.3	1,558.1	660.0	619.4	40.58	16.263				
8,500.0	7,500.0	8,616.1	7,500.0	26.8	34.9	90.00	880.3	1,558.1	660.0	616.7	43.31	15.239				
8,600.0	7,500.0	8,716.1	7,500.0	27.9	35.7	90.00	980.3	1,558.1	660.0	613.9	46.14	14.304				
8,700.0	7,500.0	8,816.1	7,500.0	29.2	36.7	90.00	1,080.3	1,558.1	660.0	610.9	49.06	13.453				

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 ft
S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Well Error:	0.0 ft
Survey Program: 0-Geolink MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,800.0	7,500.0	8,916.1	7,500.0	30.4	37.7	90.00	1,180.3	1,558.1	660.0	608.0	52.05	12.680		
8,900.0	7,500.0	9,016.1	7,500.0	31.7	38.7	90.00	1,280.3	1,558.1	660.0	604.9	55.10	11.977		
9,000.0	7,500.0	9,116.1	7,500.0	33.1	39.8	90.00	1,380.3	1,558.1	660.0	601.8	58.21	11.339		
9,100.0	7,500.0	9,216.1	7,500.0	34.5	41.0	90.00	1,480.3	1,558.1	660.0	598.6	61.36	10.757		
9,200.0	7,500.0	9,316.1	7,500.0	35.9	42.2	90.00	1,580.3	1,558.1	660.0	595.5	64.54	10.226		
9,300.0	7,500.0	9,416.1	7,500.0	37.4	43.4	90.00	1,680.3	1,558.1	660.0	592.2	67.76	9.741		
9,400.0	7,500.0	9,516.1	7,500.0	38.8	44.7	90.00	1,780.3	1,558.1	660.0	589.0	71.00	9.296		
9,500.0	7,500.0	9,616.1	7,500.0	40.3	46.0	90.00	1,880.3	1,558.1	660.0	585.7	74.27	8.887		
9,600.0	7,500.0	9,716.1	7,500.0	41.8	47.3	90.00	1,980.3	1,558.1	660.0	582.4	77.56	8.510		
9,700.0	7,500.0	9,816.1	7,500.0	43.4	48.7	90.00	2,080.3	1,558.1	660.0	579.1	80.87	8.162		
9,800.0	7,500.0	9,916.1	7,500.0	44.9	50.1	90.00	2,180.3	1,558.1	660.0	575.8	84.19	7.839		
9,900.0	7,500.0	10,016.1	7,500.0	46.5	51.5	90.00	2,280.3	1,558.1	660.0	572.5	87.53	7.540		
10,000.0	7,500.0	10,116.1	7,500.0	48.1	52.9	90.00	2,380.3	1,558.1	660.0	569.1	90.88	7.262		
10,100.0	7,500.0	10,216.1	7,500.0	49.7	54.3	90.00	2,480.3	1,558.1	660.0	565.8	94.24	7.003		
10,200.0	7,500.0	10,316.1	7,500.0	51.3	55.8	90.00	2,580.3	1,558.1	660.0	562.4	97.62	6.761		
10,300.0	7,500.0	10,416.1	7,500.0	52.9	57.3	90.00	2,680.3	1,558.1	660.0	559.0	101.00	6.535		
10,400.0	7,500.0	10,516.1	7,500.0	54.5	58.8	90.00	2,780.3	1,558.1	660.0	555.6	104.39	6.323		
10,500.0	7,500.0	10,616.1	7,500.0	56.1	60.3	90.00	2,880.3	1,558.1	660.0	552.2	107.79	6.123		
10,600.0	7,500.0	10,716.1	7,500.0	57.8	61.8	90.00	2,980.3	1,558.1	660.0	548.8	111.19	5.936		
10,700.0	7,500.0	10,816.1	7,500.0	59.4	63.4	90.00	3,080.3	1,558.1	660.0	545.4	114.60	5.759		
10,800.0	7,500.0	10,916.1	7,500.0	61.1	64.9	90.00	3,180.3	1,558.1	660.0	542.0	118.02	5.592		
10,900.0	7,500.0	11,016.1	7,500.0	62.7	66.5	90.00	3,280.3	1,558.1	660.0	538.6	121.44	5.435		
11,000.0	7,500.0	11,116.1	7,500.0	64.4	68.0	90.00	3,380.3	1,558.1	660.0	535.1	124.87	5.286		
11,100.0	7,500.0	11,216.1	7,500.0	66.0	69.6	90.00	3,480.3	1,558.1	660.0	531.7	128.30	5.144		
11,200.0	7,500.0	11,316.1	7,500.0	67.7	71.2	90.00	3,580.3	1,558.1	660.0	528.3	131.73	5.010		
11,300.0	7,500.0	11,416.1	7,500.0	69.4	72.8	90.00	3,680.3	1,558.1	660.0	524.8	135.17	4.883		
11,400.0	7,500.0	11,516.1	7,500.0	71.1	74.4	90.00	3,780.3	1,558.1	660.0	521.4	138.61	4.761		
11,500.0	7,500.0	11,616.1	7,500.0	72.7	76.0	90.00	3,880.3	1,558.1	660.0	517.9	142.06	4.646		
11,600.0	7,500.0	11,716.1	7,500.0	74.4	77.6	90.00	3,980.3	1,558.1	660.0	514.5	145.51	4.536		
11,700.0	7,500.0	11,816.1	7,500.0	76.1	79.2	90.00	4,080.3	1,558.1	660.0	511.0	148.96	4.431		
11,800.0	7,500.0	11,916.1	7,500.0	77.8	80.8	90.00	4,180.3	1,558.1	660.0	507.6	152.41	4.330		
11,869.7	7,500.0	11,985.8	7,500.0	79.0	82.0	90.00	4,250.0	1,558.1	660.0	505.2	154.82	4.263		
11,878.1	7,500.0	11,988.8	7,500.0	79.1	82.0	90.00	4,253.0	1,558.1	660.0	504.7	155.35	4.249 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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	90.43	-0.3	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.43	-0.3	40.0	40.0	39.7	0.30	134.849		
200.0	200.0	200.0	200.0	0.3	0.3	90.43	-0.3	40.0	40.0	39.4	0.65	61.958 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	90.53	-0.4	40.9	40.9	39.9	0.99	41.140		
400.0	400.0	398.5	398.5	0.7	0.7	90.82	-0.6	43.4	43.5	42.1	1.34	32.412		
500.0	500.0	497.7	497.6	0.8	0.9	-23.26	-1.0	47.7	47.0	45.3	1.69	27.829		
600.0	600.0	596.8	596.5	1.0	1.1	-23.85	-1.6	53.7	50.6	48.6	2.04	24.868		
700.0	699.9	695.8	695.2	1.2	1.3	-24.94	-2.3	61.4	54.4	52.0	2.38	22.817		
800.0	799.7	794.8	793.7	1.4	1.5	-26.41	-3.2	70.7	58.3	55.6	2.74	21.326		
900.0	899.4	893.6	891.9	1.6	1.7	-28.17	-4.3	81.8	62.5	59.4	3.09	20.201		
1,000.0	998.9	992.4	989.9	1.8	2.0	-30.16	-5.5	94.5	66.8	63.4	3.46	19.321		
1,100.0	1,098.3	1,091.1	1,087.5	2.1	2.3	-32.32	-6.9	108.9	71.5	67.6	3.84	18.607		
1,200.0	1,197.4	1,189.7	1,184.8	2.3	2.6	-34.58	-8.4	124.9	76.4	72.2	4.25	17.999		
1,237.8	1,234.9	1,227.0	1,221.5	2.4	2.8	-35.46	-9.0	131.4	78.4	74.0	4.41	17.789		
1,300.0	1,296.4	1,288.2	1,281.7	2.6	3.0	-36.79	-10.1	142.6	82.0	77.3	4.67	17.537		
1,400.0	1,395.3	1,386.5	1,378.1	2.9	3.3	-38.39	-12.0	161.9	89.2	84.0	5.12	17.422		
1,500.0	1,494.2	1,484.6	1,473.9	3.2	3.7	-39.40	-14.0	182.8	98.0	92.4	5.57	17.601		
1,600.0	1,593.2	1,582.4	1,569.1	3.5	4.2	-39.90	-16.1	205.2	108.4	102.4	6.02	18.016		
1,700.0	1,692.1	1,679.9	1,663.5	3.8	4.6	-40.02	-18.4	229.2	120.4	114.0	6.47	18.625		
1,800.0	1,791.0	1,777.0	1,757.1	4.1	5.1	-39.85	-20.8	254.7	134.0	127.1	6.91	19.399		
1,900.0	1,890.0	1,873.6	1,849.9	4.4	5.6	-39.48	-23.4	281.6	149.2	141.8	7.34	20.313		
2,000.0	1,988.9	1,970.0	1,942.0	4.7	6.1	-38.98	-26.1	310.0	165.8	158.1	7.77	21.347		
2,100.0	2,087.8	2,068.4	2,035.8	5.0	6.7	-38.48	-29.0	339.6	183.2	175.0	8.21	22.313		
2,200.0	2,186.7	2,166.9	2,129.7	5.3	7.2	-38.07	-31.8	369.3	200.5	191.9	8.65	23.178		
2,300.0	2,285.7	2,265.4	2,223.5	5.6	7.8	-37.73	-34.6	398.9	217.9	208.8	9.09	23.959		
2,400.0	2,384.6	2,363.9	2,317.4	5.9	8.3	-37.43	-37.5	428.6	235.2	225.7	9.54	24.666		
2,500.0	2,483.5	2,462.3	2,411.3	6.2	8.9	-37.18	-40.3	458.2	252.6	242.6	9.98	25.309		
2,600.0	2,582.5	2,560.8	2,505.1	6.5	9.5	-36.96	-43.1	487.9	270.0	259.5	10.42	25.897		
2,700.0	2,681.4	2,659.3	2,599.0	6.8	10.0	-36.77	-46.0	517.5	287.3	276.5	10.87	26.435		
2,800.0	2,780.3	2,757.8	2,692.9	7.1	10.6	-36.59	-48.8	547.2	304.7	293.4	11.31	26.931		
2,900.0	2,879.3	2,856.2	2,786.7	7.4	11.1	-36.44	-51.6	576.8	322.1	310.3	11.76	27.389		
3,000.0	2,978.2	2,954.7	2,880.6	7.7	11.7	-36.30	-54.5	606.5	339.5	327.3	12.21	27.812		
3,100.0	3,077.1	3,053.2	2,974.4	8.0	12.3	-36.18	-57.3	636.1	356.9	344.2	12.65	28.206		
3,200.0	3,176.1	3,151.7	3,068.3	8.3	12.8	-36.06	-60.2	665.8	374.2	361.1	13.10	28.572		
3,300.0	3,275.0	3,250.1	3,162.2	8.7	13.4	-35.96	-63.0	695.4	391.6	378.1	13.54	28.914		
3,400.0	3,373.9	3,348.6	3,256.0	9.0	14.0	-35.87	-65.8	725.1	409.0	395.0	13.99	29.233		
3,500.0	3,472.9	3,447.1	3,349.9	9.3	14.5	-35.78	-68.7	754.7	426.4	412.0	14.44	29.533		
3,600.0	3,571.8	3,545.6	3,443.8	9.6	15.1	-35.70	-71.5	784.4	443.8	428.9	14.89	29.814		
3,700.0	3,670.7	3,644.0	3,537.6	9.9	15.7	-35.63	-74.3	814.0	461.2	445.8	15.33	30.079		
3,800.0	3,769.7	3,742.5	3,631.5	10.2	16.2	-35.56	-77.2	843.7	478.6	462.8	15.78	30.328		
3,900.0	3,868.6	3,841.0	3,725.3	10.5	16.8	-35.50	-80.0	873.3	496.0	479.7	16.23	30.564		
4,000.0	3,967.5	3,939.5	3,819.2	10.8	17.4	-35.44	-82.8	903.0	513.3	496.7	16.67	30.787		
4,100.0	4,066.5	4,037.9	3,913.1	11.1	17.9	-35.38	-85.7	932.6	530.7	513.6	17.12	30.998		
4,200.0	4,165.4	4,136.4	4,006.9	11.4	18.5	-35.33	-88.5	962.3	548.1	530.6	17.57	31.198		
4,300.0	4,264.3	4,234.9	4,100.8	11.7	19.1	-35.28	-91.3	991.9	565.5	547.5	18.02	31.388		
4,400.0	4,363.3	4,333.4	4,194.7	12.1	19.6	-35.24	-94.2	1,021.6	582.9	564.4	18.46	31.569		
4,500.0	4,462.2	4,431.8	4,288.5	12.4	20.2	-35.19	-97.0	1,051.2	600.3	581.4	18.91	31.741		
4,600.0	4,561.1	4,530.3	4,382.4	12.7	20.8	-35.15	-99.9	1,080.9	617.7	598.3	19.36	31.905		
4,700.0	4,660.1	4,628.8	4,476.2	13.0	21.3	-35.11	-102.7	1,110.5	635.1	615.3	19.81	32.061		
4,800.0	4,759.0	4,727.3	4,570.1	13.3	21.9	-35.08	-105.5	1,140.2	652.5	632.2	20.26	32.211		
4,900.0	4,857.9	4,825.7	4,664.0	13.6	22.5	-35.04	-108.4	1,169.8	669.9	649.2	20.70	32.353		
5,000.0	4,956.9	4,924.2	4,757.8	13.9	23.0	-35.01	-111.2	1,199.5	687.3	666.1	21.15	32.490		

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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

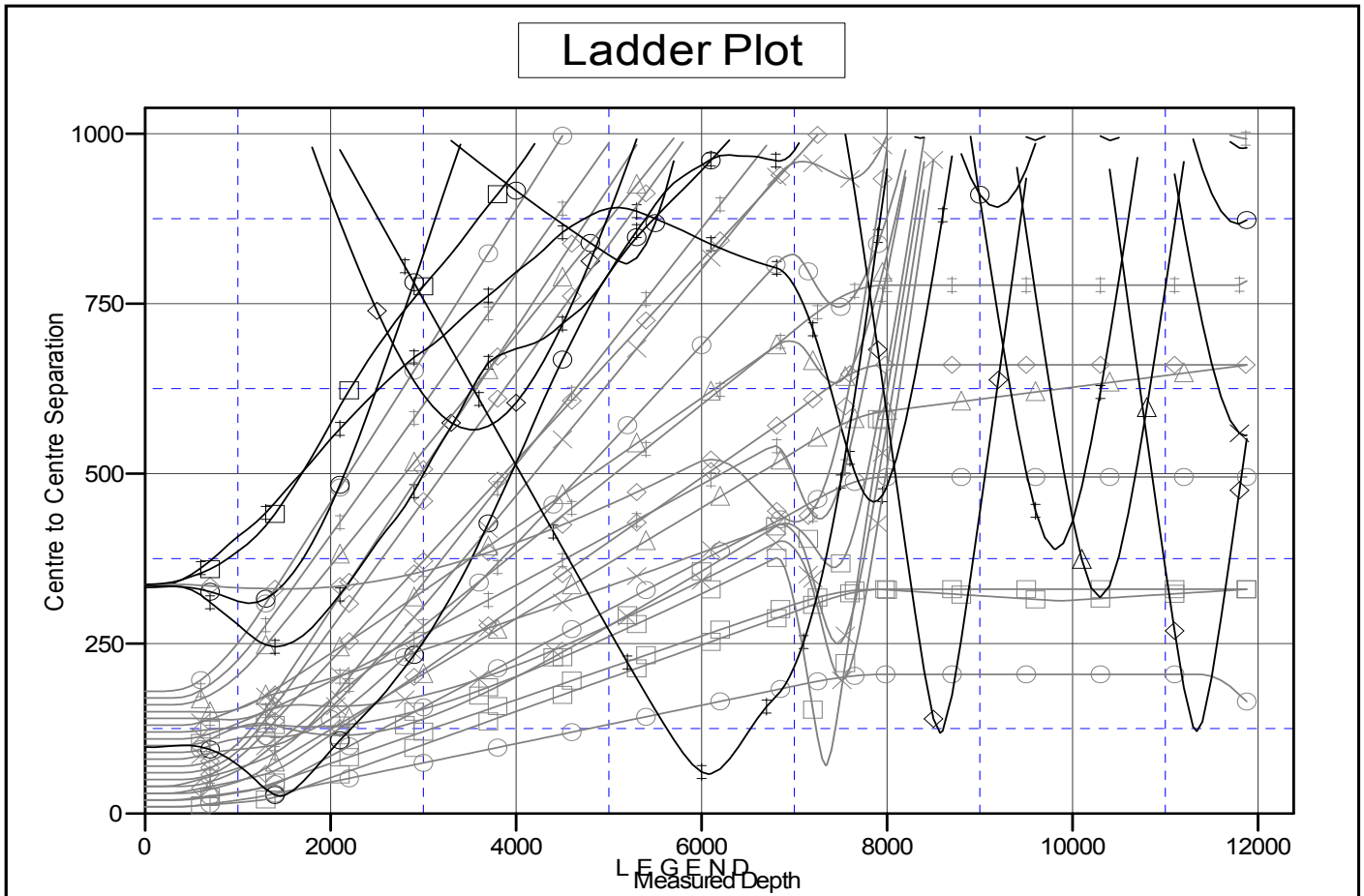
Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error:		0.0 ft
Reference				Offset				Semi Major Axis			Distance				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
5,100.0	5,055.8	5,022.7	4,851.7	14.2	23.6	-34.98	-114.0	1,229.1	704.7	683.1	21.60	32.621			
5,200.0	5,154.7	5,121.2	4,945.6	14.5	24.2	-34.95	-116.9	1,258.8	722.1	700.0	22.05	32.747			
5,300.0	5,253.7	5,219.6	5,039.4	14.8	24.7	-34.92	-119.7	1,288.4	739.5	717.0	22.50	32.868			
5,400.0	5,352.6	5,318.1	5,133.3	15.1	25.3	-34.89	-122.5	1,318.1	756.8	733.9	22.95	32.984			
5,500.0	5,451.5	5,416.6	5,227.1	15.5	25.9	-34.87	-125.4	1,347.7	774.2	750.8	23.39	33.095			
5,600.0	5,550.5	5,515.1	5,321.0	15.8	26.4	-34.84	-128.2	1,377.4	791.6	767.8	23.84	33.202			
5,700.0	5,649.4	5,613.5	5,414.9	16.1	27.0	-34.82	-131.0	1,407.0	809.0	784.7	24.29	33.305			
5,800.0	5,748.3	5,712.0	5,508.7	16.4	27.6	-34.80	-133.9	1,436.7	826.4	801.7	24.74	33.405			
5,900.0	5,847.3	5,810.5	5,602.6	16.7	28.1	-34.78	-136.7	1,466.3	843.8	818.6	25.19	33.500			
6,000.0	5,946.2	5,909.0	5,696.5	17.0	28.7	-34.76	-139.6	1,496.0	861.2	835.6	25.64	33.593			
6,100.0	6,045.1	6,007.4	5,790.3	17.3	29.3	-34.74	-142.4	1,525.6	878.6	852.5	26.09	33.682			
6,200.0	6,144.1	6,105.9	5,884.2	17.6	29.8	-34.72	-145.2	1,555.3	896.0	869.5	26.53	33.768			
6,300.0	6,243.0	6,204.4	5,978.0	17.9	30.4	-34.70	-148.1	1,584.9	913.4	886.4	26.98	33.851			
6,400.0	6,341.9	6,302.9	6,071.9	18.2	31.0	-34.68	-150.9	1,614.6	930.8	903.4	27.43	33.932			
6,500.0	6,440.9	6,401.3	6,165.8	18.5	31.5	-34.66	-153.7	1,644.2	948.2	920.3	27.88	34.010			
6,600.0	6,539.8	6,499.8	6,259.6	18.9	32.1	-34.65	-156.6	1,673.9	965.6	937.3	28.33	34.085			
6,700.0	6,638.7	6,598.3	6,353.5	19.2	32.7	-34.63	-159.4	1,703.5	983.0	954.2	28.78	34.158			
11,700.0	7,500.0	11,699.6	7,429.0	76.1	82.1	85.92	4,115.1	1,892.8	997.9	850.3	147.52	6.764			
11,800.0	7,500.0	11,799.5	7,429.0	77.8	83.6	85.90	4,215.0	1,889.4	994.4	843.4	150.96	6.587			
11,870.0	7,500.0	11,834.9	7,429.0	79.0	84.2	85.90	4,250.3	1,888.1	992.5	838.0	154.50	6.424			
11,878.1	7,500.0	11,834.9	7,429.0	79.1	84.2	85.90	4,250.3	1,888.1	992.6	837.6	155.01	6.403 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 4S-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4S-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 15' KB @ 5003.0ft Offset Depths are relative to Offset Datum Central Meridian is -105.500000 °	Coordinates are relative to: HWY 4S-32H-O268 Coordinate System is US State Plane 1983, Colorado Northern Zone Grid Convergence at Surface is: 0.31°
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268, OH, PLAN#1 V0	HWY 4O-32H-O268, OH, PLAN#1 V0	ANDERSON TRUST C-1, ENCANA WEL
268, OH, PLAN#1 V0	HWY 4P-32H-O268, OH, PLAN#1 V0	BROWN 41-5, ENCANA WELL, ENCANA
268, OH, PLAN#1 V0	HWY 4Q-32H-O268, OH, PLAN#1 V0	CANINO 1-X, ENCANA WELL, NO SURV
268, OH, PLAN#1 V0	HWY 4R-32H-O268, OH, PLAN#1 V0	NELSON E UNIT 2, ENCANA, SURVEY
268, OH, PLAN#1 V0	HWY 4T-32H-O268, OH, PLAN#1 V0	RAY NELSON 33-32, ENCANA WELLE
268, OH, PLAN#1 V0	HWY 4U-32H-O268, OH, PLAN#1 V0	RAY NELSON 34-32, ENCANA WELLE
268, OH, PLAN#1 V0	HWY 4V-32H-O268, OH, PLAN#1 V0	RAY NELSON 44-32, ENCANA WELLE
268, OH, Plan#1 V0	HWY 4W-32H-O268, OH, PLAN#1 V0	RAY NELSON 4-8-32, ENCANA WEL, f
68, OH, PLAN#1 V0	ANDERSON 31-32, ENCANA WELL, PLAN ONLY V0	RAY NELSON 6-8-32, ENCANA WEL, f
268, OH, PLAN#1 V0	ANDERSON 32-32, ENCANA WELL, SURVEYS V0	RAY NELSON 7-8-32, DD, Plan #1 V0
268, OH, PLAN#1 V0	ANDERSON 41-32, ENCANA WELL, NO SURVEYS V0	RAY NELSON 8-4-32, ENCANA WEL, f
268, OH, PLAN#1 V0	ANDERSON 1-32, ENCANA WELL, SURVEYS V0	
268, OH, PLAN#1 V0	ANDERSON 2-32, ENCANA WELL, SURVEYS V0	

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