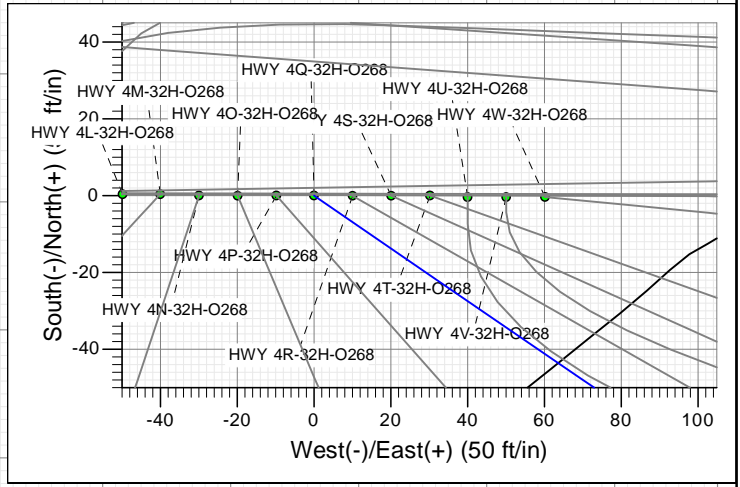
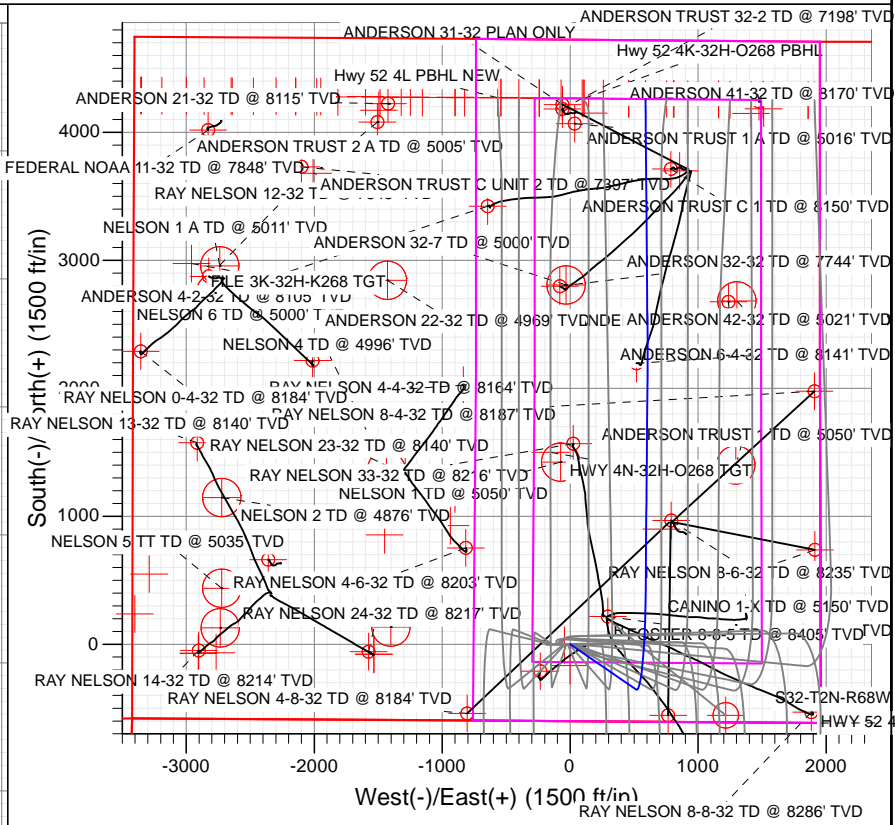
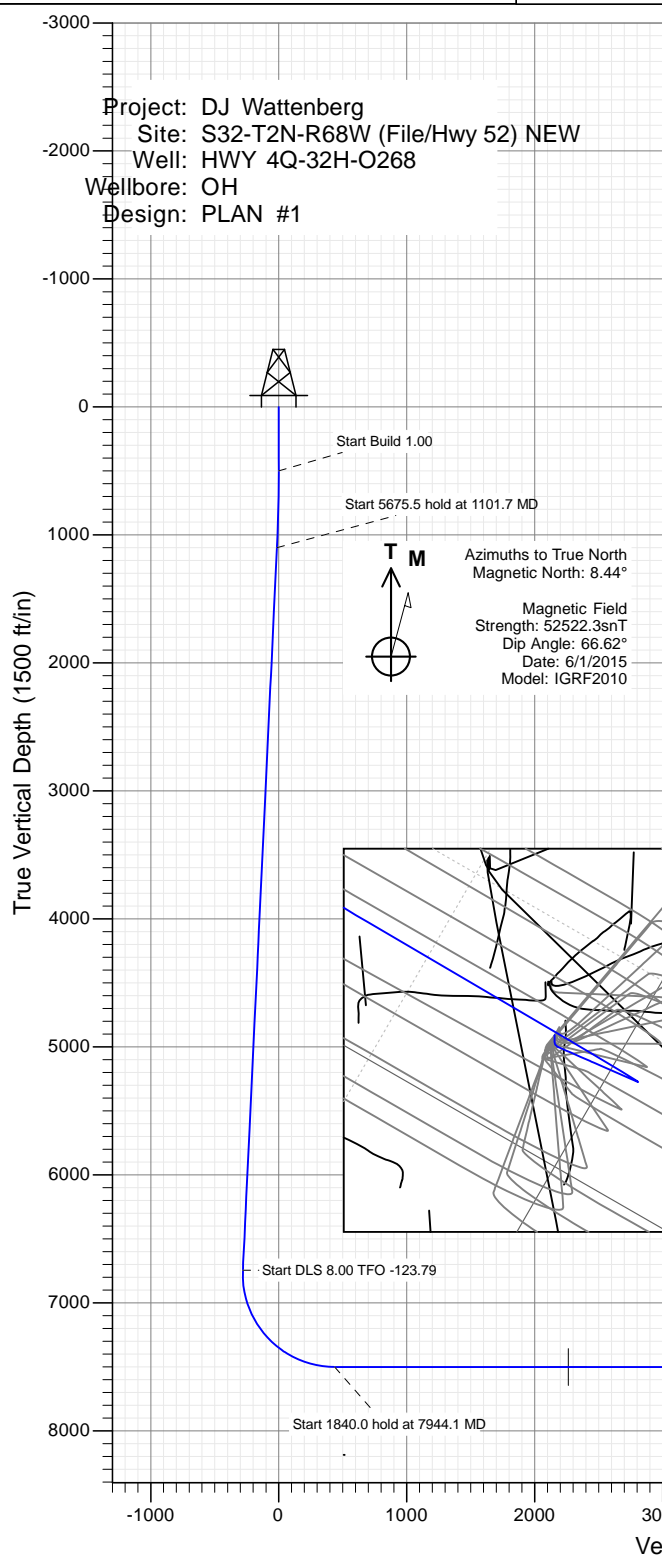




SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1101.7	6.02	124.44	1100.6	-17.9	26.0	1.00	124.44	-14.1	
4	6777.1	6.02	124.44	6744.8	-354.3	516.7	0.00	0.00	-280.3	
5	7944.1	90.00	0.50	7500.0	360.1	588.9	8.00	-123.79	437.2	
6	9784.1	90.00	0.50	7500.0	2200.0	605.0	0.00	0.00	2262.1	Interp @ 7500.0 (HWY 4Q-32H-O268 OH PLAN #1)
7	9883.0	90.00	359.51	7500.0	2298.9	605.0	1.00	-90.00	2360.0	
8	11845.2	90.00	359.51	7500.0	4261.1	588.3	0.00	0.00	4301.5	HWY 4Q PBHL NEW



CATHEDRAL

WELL DETAILS: HWY 4Q-32H-O268

Ground Level: 4988.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1275755.20	3132984.25	40.089354	-105.024714

Planning Report

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

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

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

Well	HWY 4Q-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,755.20 ft	Latitude:	40.089354
	+E/-W	0.0 ft	Easting:	3,132,984.25 ft	Longitude:	-105.024714
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,988.0 ft

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

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	7.86

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,101.7	6.02	124.44	1,100.6	-17.9	26.0	1.00	1.00	0.00	124.44	
6,777.1	6.02	124.44	6,744.8	-354.3	516.7	0.00	0.00	0.00	0.00	
7,944.1	90.00	0.50	7,500.0	360.1	588.9	8.00	7.20	-10.62	-123.79	
9,784.1	90.00	0.50	7,500.0	2,200.0	605.0	0.00	0.00	0.00	0.00	Interp @ 7500.0 (HW)
9,883.0	90.00	359.51	7,500.0	2,298.9	605.0	1.00	0.00	-1.00	-90.00	
11,845.2	90.00	359.51	7,500.0	4,261.1	588.3	0.00	0.00	0.00	0.00	HWY 4Q PBHL NEW

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4Q-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 4Q-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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	Start Build 1.00
600.0	1.00	124.44	600.0	-0.5	0.7	-0.4	1.00	1.00	
700.0	2.00	124.44	700.0	-2.0	2.9	-1.6	1.00	1.00	
800.0	3.00	124.44	799.9	-4.4	6.5	-3.5	1.00	1.00	
900.0	4.00	124.44	899.7	-7.9	11.5	-6.2	1.00	1.00	
1,000.0	5.00	124.44	999.4	-12.3	18.0	-9.8	1.00	1.00	
1,100.0	6.00	124.44	1,098.9	-17.8	25.9	-14.0	1.00	1.00	
1,101.7	6.02	124.44	1,100.6	-17.9	26.0	-14.1	1.00	1.00	Start 5675.5 hold at 1101.7 MD
1,200.0	6.02	124.44	1,198.4	-23.7	34.5	-18.7	0.00	0.00	
1,300.0	6.02	124.44	1,297.8	-29.6	43.2	-23.4	0.00	0.00	
1,400.0	6.02	124.44	1,397.3	-35.5	51.8	-28.1	0.00	0.00	
1,500.0	6.02	124.44	1,496.7	-41.5	60.5	-32.8	0.00	0.00	
1,600.0	6.02	124.44	1,596.1	-47.4	69.1	-37.5	0.00	0.00	
1,700.0	6.02	124.44	1,695.6	-53.3	77.8	-42.2	0.00	0.00	
1,800.0	6.02	124.44	1,795.0	-59.2	86.4	-46.9	0.00	0.00	
1,900.0	6.02	124.44	1,894.5	-65.2	95.0	-51.6	0.00	0.00	
2,000.0	6.02	124.44	1,993.9	-71.1	103.7	-56.3	0.00	0.00	
2,100.0	6.02	124.44	2,093.4	-77.0	112.3	-60.9	0.00	0.00	
2,200.0	6.02	124.44	2,192.8	-83.0	121.0	-65.6	0.00	0.00	
2,300.0	6.02	124.44	2,292.3	-88.9	129.6	-70.3	0.00	0.00	
2,400.0	6.02	124.44	2,391.7	-94.8	138.3	-75.0	0.00	0.00	
2,500.0	6.02	124.44	2,491.2	-100.7	146.9	-79.7	0.00	0.00	
2,600.0	6.02	124.44	2,590.6	-106.7	155.6	-84.4	0.00	0.00	
2,700.0	6.02	124.44	2,690.1	-112.6	164.2	-89.1	0.00	0.00	
2,800.0	6.02	124.44	2,789.5	-118.5	172.8	-93.8	0.00	0.00	
2,900.0	6.02	124.44	2,889.0	-124.5	181.5	-98.5	0.00	0.00	
3,000.0	6.02	124.44	2,988.4	-130.4	190.1	-103.2	0.00	0.00	
3,100.0	6.02	124.44	3,087.9	-136.3	198.8	-107.8	0.00	0.00	
3,200.0	6.02	124.44	3,187.3	-142.2	207.4	-112.5	0.00	0.00	
3,300.0	6.02	124.44	3,286.8	-148.2	216.1	-117.2	0.00	0.00	
3,400.0	6.02	124.44	3,386.2	-154.1	224.7	-121.9	0.00	0.00	
3,500.0	6.02	124.44	3,485.7	-160.0	233.4	-126.6	0.00	0.00	
3,600.0	6.02	124.44	3,585.1	-166.0	242.0	-131.3	0.00	0.00	
3,700.0	6.02	124.44	3,684.6	-171.9	250.7	-136.0	0.00	0.00	
3,800.0	6.02	124.44	3,784.0	-177.8	259.3	-140.7	0.00	0.00	
3,900.0	6.02	124.44	3,883.5	-183.7	267.9	-145.4	0.00	0.00	
4,000.0	6.02	124.44	3,982.9	-189.7	276.6	-150.1	0.00	0.00	
4,100.0	6.02	124.44	4,082.4	-195.6	285.2	-154.7	0.00	0.00	
4,200.0	6.02	124.44	4,181.8	-201.5	293.9	-159.4	0.00	0.00	
4,300.0	6.02	124.44	4,281.3	-207.4	302.5	-164.1	0.00	0.00	
4,400.0	6.02	124.44	4,380.7	-213.4	311.2	-168.8	0.00	0.00	
4,500.0	6.02	124.44	4,480.2	-219.3	319.8	-173.5	0.00	0.00	
4,600.0	6.02	124.44	4,579.6	-225.2	328.5	-178.2	0.00	0.00	
4,700.0	6.02	124.44	4,679.1	-231.2	337.1	-182.9	0.00	0.00	
4,800.0	6.02	124.44	4,778.5	-237.1	345.7	-187.6	0.00	0.00	
4,900.0	6.02	124.44	4,878.0	-243.0	354.4	-192.3	0.00	0.00	
5,000.0	6.02	124.44	4,977.4	-248.9	363.0	-197.0	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: S32-T2N-R68W (File/Hwy 52) NEW
Well: HWY 4Q-32H-O268
Wellbore: OH
Design: PLAN #1

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,100.0	6.02	124.44	5,076.9	-254.9	371.7	-201.6	0.00	0.00	
5,200.0	6.02	124.44	5,176.3	-260.8	380.3	-206.3	0.00	0.00	
5,300.0	6.02	124.44	5,275.8	-266.7	389.0	-211.0	0.00	0.00	
5,400.0	6.02	124.44	5,375.2	-272.7	397.6	-215.7	0.00	0.00	
5,500.0	6.02	124.44	5,474.7	-278.6	406.3	-220.4	0.00	0.00	
5,600.0	6.02	124.44	5,574.1	-284.5	414.9	-225.1	0.00	0.00	
5,700.0	6.02	124.44	5,673.6	-290.4	423.5	-229.8	0.00	0.00	
5,800.0	6.02	124.44	5,773.0	-296.4	432.2	-234.5	0.00	0.00	
5,900.0	6.02	124.44	5,872.5	-302.3	440.8	-239.2	0.00	0.00	
6,000.0	6.02	124.44	5,971.9	-308.2	449.5	-243.9	0.00	0.00	
6,100.0	6.02	124.44	6,071.4	-314.2	458.1	-248.6	0.00	0.00	
6,200.0	6.02	124.44	6,170.8	-320.1	466.8	-253.2	0.00	0.00	
6,300.0	6.02	124.44	6,270.3	-326.0	475.4	-257.9	0.00	0.00	
6,400.0	6.02	124.44	6,369.7	-331.9	484.1	-262.6	0.00	0.00	
6,500.0	6.02	124.44	6,469.2	-337.9	492.7	-267.3	0.00	0.00	
6,600.0	6.02	124.44	6,568.6	-343.8	501.4	-272.0	0.00	0.00	
6,700.0	6.02	124.44	6,668.1	-349.7	510.0	-276.7	0.00	0.00	
6,777.1	6.02	124.44	6,744.8	-354.3	516.7	-280.3	0.00	0.00	Start DLS 8.00 TFO -123.79
6,800.0	5.22	107.51	6,767.5	-355.3	518.6	-281.0	8.00	-3.47	
6,900.0	8.17	38.01	6,867.0	-351.1	527.4	-275.6	8.00	2.95	
7,000.0	15.29	19.15	6,964.8	-333.0	536.1	-256.5	8.00	7.12	
7,100.0	22.99	12.39	7,059.3	-301.4	544.6	-224.1	8.00	7.70	
7,200.0	30.84	8.92	7,148.4	-256.9	552.8	-178.9	8.00	7.85	
7,300.0	38.75	6.76	7,230.4	-200.4	560.5	-121.9	8.00	7.91	
7,400.0	46.68	5.23	7,303.8	-133.0	567.5	-54.1	8.00	7.93	
7,500.0	54.63	4.06	7,367.2	-56.0	573.7	23.0	8.00	7.95	
7,600.0	62.59	3.10	7,419.2	29.1	579.0	108.1	8.00	7.96	
7,700.0	70.55	2.27	7,459.0	120.7	583.3	199.4	8.00	7.96	
7,800.0	78.52	1.52	7,485.6	217.0	586.4	295.1	8.00	7.97	
7,900.0	86.49	0.81	7,498.6	316.0	588.4	393.5	8.00	7.97	
7,944.1	90.00	0.50	7,500.0	360.1	588.9	437.2	8.00	7.97	Start 1840.0 hold at 7944.1 MD
8,000.0	90.00	0.50	7,500.0	416.0	589.4	492.7	0.00	0.00	
8,100.0	90.00	0.50	7,500.0	516.0	590.3	591.9	0.00	0.00	
8,200.0	90.00	0.50	7,500.0	616.0	591.2	691.0	0.00	0.00	
8,300.0	90.00	0.50	7,500.0	716.0	592.0	790.2	0.00	0.00	
8,400.0	90.00	0.50	7,500.0	816.0	592.9	889.4	0.00	0.00	
8,500.0	90.00	0.50	7,500.0	916.0	593.8	988.6	0.00	0.00	
8,600.0	90.00	0.50	7,500.0	1,016.0	594.7	1,087.7	0.00	0.00	
8,700.0	90.00	0.50	7,500.0	1,116.0	595.5	1,186.9	0.00	0.00	
8,800.0	90.00	0.50	7,500.0	1,216.0	596.4	1,286.1	0.00	0.00	
8,900.0	90.00	0.50	7,500.0	1,316.0	597.3	1,385.3	0.00	0.00	
9,000.0	90.00	0.50	7,500.0	1,415.9	598.2	1,484.4	0.00	0.00	
9,100.0	90.00	0.50	7,500.0	1,515.9	599.0	1,583.6	0.00	0.00	
9,200.0	90.00	0.50	7,500.0	1,615.9	599.9	1,682.8	0.00	0.00	
9,300.0	90.00	0.50	7,500.0	1,715.9	600.8	1,782.0	0.00	0.00	
9,400.0	90.00	0.50	7,500.0	1,815.9	601.6	1,881.2	0.00	0.00	
9,500.0	90.00	0.50	7,500.0	1,915.9	602.5	1,980.3	0.00	0.00	
9,600.0	90.00	0.50	7,500.0	2,015.9	603.4	2,079.5	0.00	0.00	
9,700.0	90.00	0.50	7,500.0	2,115.9	604.3	2,178.7	0.00	0.00	
9,784.1	90.00	0.50	7,500.0	2,200.0	605.0	2,262.1	0.00	0.00	Start DLS 1.00 TFO -90.00
9,800.0	90.00	0.34	7,500.0	2,215.9	605.1	2,277.9	1.00	0.00	
9,883.0	90.00	359.51	7,500.0	2,298.9	605.0	2,360.0	1.00	0.00	Start 1962.2 hold at 9883.0 MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well HWY 4Q-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 4Q-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
9,900.0	90.00	359.51	7,500.0	2,315.9	604.9	2,376.9	0.00	0.00	
10,000.0	90.00	359.51	7,500.0	2,415.9	604.0	2,475.8	0.00	0.00	
10,100.0	90.00	359.51	7,500.0	2,515.9	603.2	2,574.8	0.00	0.00	
10,200.0	90.00	359.51	7,500.0	2,615.9	602.3	2,673.7	0.00	0.00	
10,300.0	90.00	359.51	7,500.0	2,715.9	601.4	2,772.6	0.00	0.00	
10,400.0	90.00	359.51	7,500.0	2,815.9	600.6	2,871.6	0.00	0.00	
10,500.0	90.00	359.51	7,500.0	2,915.9	599.7	2,970.5	0.00	0.00	
10,600.0	90.00	359.51	7,500.0	3,015.9	598.9	3,069.5	0.00	0.00	
10,700.0	90.00	359.51	7,500.0	3,115.9	598.0	3,168.4	0.00	0.00	
10,800.0	90.00	359.51	7,500.0	3,215.9	597.2	3,267.3	0.00	0.00	
10,900.0	90.00	359.51	7,500.0	3,315.9	596.3	3,366.3	0.00	0.00	
11,000.0	90.00	359.51	7,500.0	3,415.9	595.5	3,465.2	0.00	0.00	
11,100.0	90.00	359.51	7,500.0	3,515.9	594.6	3,564.2	0.00	0.00	
11,200.0	90.00	359.51	7,500.0	3,615.9	593.8	3,663.1	0.00	0.00	
11,300.0	90.00	359.51	7,500.0	3,715.9	592.9	3,762.0	0.00	0.00	
11,400.0	90.00	359.51	7,500.0	3,815.9	592.1	3,861.0	0.00	0.00	
11,500.0	90.00	359.51	7,500.0	3,915.9	591.2	3,959.9	0.00	0.00	
11,600.0	90.00	359.51	7,500.0	4,015.9	590.4	4,058.9	0.00	0.00	
11,700.0	90.00	359.51	7,500.0	4,115.9	589.5	4,157.8	0.00	0.00	
11,800.0	90.00	359.51	7,500.0	4,215.8	588.6	4,256.7	0.00	0.00	
11,845.2	90.00	359.51	7,500.0	4,261.1	588.3	4,301.5	0.00	0.00	TD at 11845.2

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Interp @ 7500.0 (HWY 4 - plan hits target center - Point	0.00	0.00	7,500.0	2,200.0	605.0	1,277,958.41	3,133,577.45	40.095393	-105.022551
HWY 4Q PBHL NEW - plan hits target center - Point	0.00	0.00	7,500.0	4,261.1	588.3	1,280,019.35	3,133,549.66	40.101051	-105.022611

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	Start Build 1.00
1,101.7	1,100.6	-17.9	26.0	Start 5675.5 hold at 1101.7 MD
6,777.1	6,744.8	-354.3	516.7	Start DLS 8.00 TFO -123.79
7,944.1	7,500.0	360.1	588.9	Start 1840.0 hold at 7944.1 MD
9,784.1	7,500.0	2,200.0	605.0	Start DLS 1.00 TFO -90.00
9,883.0	7,500.0	2,298.9	605.0	Start 1962.2 hold at 9883.0 MD
11,845.2	7,500.0	4,261.1	588.3	TD at 11845.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

HWY 4Q-32H-O268

OH

PLAN #1

Anticollision Report

02 November, 2015

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/9/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,845.2	PLAN #1 (OH)	Geolink MWD	Geolink MWD	

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
ANDERSON 21-32 - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON 22-32 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 22-32 AL - ENCANA - NO SURVEYS						Out of range
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	11,806.5	7,551.1	648.9	556.1	6.992	CC, ES
ANDERSON 31-32 - ENCANA WELL - PLAN ONLY	11,845.2	7,551.1	650.1	556.7	6.967	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,300.0	7,631.9	677.9	603.6	9.120	SF
ANDERSON 32-32 - ENCANA WELL - SURVEYS	10,381.7	7,633.3	673.0	599.8	9.197	CC, ES
ANDERSON 32-7 - KPK WELL - NO SURVEYS						Out of range
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,815.4	7,392.0	886.0	796.2	9.860	CC
ANDERSON 41-32 - ENCANA WELL - NO SURVEYS	11,845.2	7,392.0	886.5	795.8	9.775	ES, SF
ANDERSON 4-2-32 - ENCANA WELL - SURVEYS	11,022.9	7,725.4	1,230.0	1,152.5	15.874	CC, ES, SF
ANDERSON 6-4-32 - ENCANA WELL - SURVEYS	9,780.9	7,701.9	75.7	3.7	1.052	Level 2, CC, ES, SF
ANDERSON TRUST 1 - KPK WELL - NO SURVEYS						Out of range
ANDERSON TRUST 1 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 2 A - ENCANA WELL - NO SURVEYS						Out of range
ANDERSON TRUST 32-2 - ENCANA WELL - GYRO	11,771.7	7,200.0	693.0	609.2	8.269	CC, ES, SF
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,254.4	7,459.0	634.7	571.5	10.040	CC, ES
ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS	10,400.0	7,459.0	651.2	584.4	9.746	SF
ANDERSON TRUST C 1 - ENCANA WELL - GYRO	11,302.7	7,447.7	204.2	123.1	2.517	CC, ES, SF
ANDERSON TRUST C UNIT 2 - ENCANA WELL - GYRO						Out of range
BROWN 22-5 - ENCANA - SURVEYS						Out of range
BROWN 31-5 - ENCANA WELL - SURVEYS	6,813.1	7,057.2	1,062.4	1,022.6	26.702	CC, ES
BROWN 31-5 - ENCANA WELL - SURVEYS	6,900.0	7,136.6	1,067.2	1,027.2	26.630	SF
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,301.1	1,288.3	288.3	282.1	46.136	CC, ES
BROWN 41-5 - ENCANA WELL - ENCANA WELL	1,800.0	1,740.5	336.4	327.5	37.829	SF
BROWN 5-3 - ENCANA - SURVEYS						Out of range
BROWN 5-5 - ENCANA - SURVEYS						Out of range
BROWN C UNIT 1 - ENCANA WELL - GYRO						Out of range
BROWN C UNIT 2 - ENCANA - SURVEYS						Out of range
BULTHAUP 39-6 - KERR-MCGEE WELL - SURVEYS						Out of range
BULTHAUP 40-6 - KERR-MCGEE WELL - SURVEYS						Out of range
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,148.8	5,034.0	1,006.7	986.6	50.151	CC, ES
CANINO 1-X - ENCANA WELL - NO SURVEYS	5,200.0	5,034.0	1,008.0	987.8	50.012	SF
FEDERAL NOAA 11-32 - ENCANA - SURVEYS						Out of range
FOSTER 33-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 43-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-4-5X - ENCANA WELL - SURVEYS						Out of range
FOSTER 6-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER 8-8-5 - ENCANA WELL - SURVEYS						Out of range
FOSTER E UNIT 1 - ENCANA WELL - GYRO						Out of range
GENE 11-5 - KERR-MCGEE - SURVEYS						Out of range
HIGHLAND 21-5 - KPK WELL - NO SURVEYS						Out of range
HOPE 31-5 - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 - KPK WELL - NO SURVEYS						Out of range
NELSON 1 - TEXAS TEA WELL - NO SURVEYS	500.0	459.0	1,424.8	1,423.2	864.710	CC, ES
NELSON 1 - TEXAS TEA WELL - NO SURVEYS	1,900.0	1,853.5	1,497.7	1,490.8	217.377	SF
NELSON 1 A - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 2 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 3 - TEXAS TEA WELL - NO SURVEYS	500.0	496.0	1,407.6	1,405.9	822.012	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 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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	1,700.0	1,691.6	1,490.8	1,484.8	248.533	SF
NELSON 4 - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 5 - VESSELS WELL - NO SURVEYS						Out of range
NELSON 5 TT - TEXAS TEA WELL - NO SURVEYS						Out of range
NELSON 6 - VESSELS WELL - NO SURVEYS						Out of range
NELSON E UNIT 1 - ENCANA - SURVEYS						Out of range
NELSON E UNIT 2 - ENCANA - SURVEYS	8,539.2	7,458.9	205.4	169.6	5.734	CC, ES
NELSON E UNIT 2 - ENCANA - SURVEYS	8,600.0	7,460.5	214.2	175.8	5.584	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	1,090.2	1,075.4	332.0	328.2	86.686	CC
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	1,100.0	1,083.8	332.1	328.2	85.869	ES
RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL	9,140.7	7,676.8	573.4	514.7	9.767	SF
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,736.0	1,723.4	52.6	46.1	8.108	CC, ES
RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL	1,800.0	1,786.8	53.3	46.5	7.891	SF
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	151.2	142.2	351.3	350.9	762.241	CC, ES
RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL	8,300.0	7,632.4	922.8	884.0	23.767	SF
RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS	9,585.3	7,520.3	1,434.7	1,378.1	25.372	CC
RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS	9,600.0	7,520.4	1,434.7	1,378.1	25.333	ES
RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS	9,700.0	7,521.1	1,439.2	1,382.1	25.183	SF
RAY NELSON 4-6-32 - ENCANA WELL - SURVEYS	8,305.9	7,519.1	1,401.5	1,365.3	38.636	CC, ES
RAY NELSON 4-6-32 - ENCANA WELL - SURVEYS	8,700.0	7,529.1	1,455.9	1,415.5	36.059	SF
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,869.6	4,058.8	489.5	458.9	15.996	CC
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	3,900.0	4,086.3	489.7	458.8	15.823	ES
RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY	4,200.0	4,357.8	509.3	475.7	15.132	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,400.0	6,485.5	301.8	263.4	7.864	SF
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,800.0	6,895.7	299.7	262.8	8.139	ES
RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY	6,806.8	6,902.8	299.6	262.8	8.144	CC
RAY NELSON 7-8-32 - DD - Plan #1	500.0	491.0	353.7	352.0	210.873	CC
RAY NELSON 7-8-32 - DD - Plan #1	600.0	587.8	353.8	351.8	174.929	ES
RAY NELSON 7-8-32 - DD - Plan #1	6,900.0	6,985.1	717.7	690.7	26.596	SF
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	896.3	850.0	1,238.5	1,235.5	405.991	CC
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	900.0	850.0	1,238.5	1,235.5	405.057	ES
RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY	10,100.0	7,657.7	1,412.8	1,336.7	18.562	SF
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	947.4	898.0	1,245.5	1,242.2	380.488	CC, ES
RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY	9,000.0	7,567.6	1,478.4	1,432.7	32.387	SF
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	0.0	0.0	353.8			
RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS	6,900.0	7,155.0	1,385.4	1,357.1	48.942	SF
SCHRINER 11-5 - KERR-MCGEE - SURVEYS						Out of range
SCHRINER 12-5 - KERR-MCGEE - SURVEYS						Out of range

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4A-32H-O268 - OH - PLAN #1	116.0	118.0	159.8	159.4	448.765	CC
HWY 4A-32H-O268 - OH - PLAN #1	200.0	201.9	159.8	159.1	246.099	ES
HWY 4A-32H-O268 - OH - PLAN #1	7,263.4	7,326.7	1,229.0	1,202.9	47.147	SF
HWY 4B-32H-O268 - OH - PLAN #1	216.3	217.3	150.0	149.3	212.865	CC
HWY 4B-32H-O268 - OH - PLAN #1	300.0	300.0	150.0	149.0	150.751	ES
HWY 4B-32H-O268 - OH - PLAN #1	7,600.0	7,397.9	1,042.0	1,015.9	39.943	SF
HWY 4C-32H-O268 - OH - PLAN #1	216.3	217.3	139.9	139.2	198.568	CC
HWY 4C-32H-O268 - OH - PLAN #1	300.0	300.0	139.9	138.9	140.627	ES
HWY 4C-32H-O268 - OH - PLAN #1	7,300.0	7,344.0	847.8	821.6	32.305	SF
HWY 4D-32H-O268 - OH - PLAN #1	883.0	891.1	122.1	119.0	40.022	CC
HWY 4D-32H-O268 - OH - PLAN #1	900.0	908.2	122.1	119.0	39.256	ES
HWY 4D-32H-O268 - OH - PLAN #1	7,440.3	7,381.4	309.6	283.6	11.895	SF
HWY 4E-32H-O268 - OH - PLAN #1	1,041.5	1,052.0	107.8	104.2	29.808	CC
HWY 4E-32H-O268 - OH - PLAN #1	7,277.2	7,305.3	114.9	88.4	4.335	ES
HWY 4E-32H-O268 - OH - PLAN #1	7,300.0	7,308.0	117.1	89.9	4.303	SF
HWY 4F-32H-O268 - OH - PLAN #1	7,453.7	7,389.6	73.4	47.3	2.810	CC, ES, SF
HWY 4G-32H-O268 - OH - PLAN #1	1,800.4	1,813.7	78.4	71.4	11.301	CC, ES
HWY 4G-32H-O268 - OH - PLAN #1	2,300.0	2,310.7	93.2	83.0	9.100	SF
HWY 4H-32H-O268 - OH - Plan #1	316.3	317.3	89.8	88.8	85.245	CC
HWY 4H-32H-O268 - OH - Plan #1	500.0	500.9	89.8	88.1	52.941	ES
HWY 4H-32H-O268 - OH - Plan #1	2,600.0	2,611.2	147.1	135.1	12.232	SF
HWY 4I-32H-O268 - OH - PLAN #1	306.5	306.5	80.0	79.0	78.654	CC
HWY 4I-32H-O268 - OH - PLAN #1	500.0	499.9	80.1	78.4	47.205	ES
HWY 4I-32H-O268 - OH - PLAN #1	2,000.0	2,012.1	110.2	101.1	12.162	SF
HWY 4J-32H-O268 - OH - PLAN #1	300.0	300.0	69.9	69.0	70.310	CC
HWY 4J-32H-O268 - OH - PLAN #1	500.0	499.7	70.3	68.6	41.087	ES
HWY 4J-32H-O268 - OH - PLAN #1	1,600.0	1,608.3	113.3	106.2	16.026	SF
HWY 4K-32H-O268 - OH - PLAN #1	200.0	200.0	59.9	59.2	92.718	CC
HWY 4K-32H-O268 - OH - PLAN #1	300.0	300.0	59.9	58.9	59.999	ES
HWY 4K-32H-O268 - OH - PLAN #1	1,300.0	1,307.3	93.1	87.7	17.020	SF
HWY 4L-32H-O268 - OH - PLAN #1	500.0	500.0	49.8	48.1	29.418	CC, ES
HWY 4L-32H-O268 - OH - PLAN #1	11,845.2	11,698.6	1,155.2	1,001.7	7.524	SF
HWY 4M-32H-O268 - OH - PLAN #1	500.0	500.0	40.0	38.3	23.634	CC, ES
HWY 4M-32H-O268 - OH - PLAN #1	11,845.2	11,750.3	992.5	837.8	6.416	SF
HWY 4N-32H-O268 - OH - PLAN #1	500.0	500.0	29.9	28.2	17.683	CC, ES
HWY 4N-32H-O268 - OH - PLAN #1	11,845.2	12,020.8	693.2	544.8	4.671	SF
HWY 4O-32H-O268 - OH - PLAN #1	500.0	500.0	19.9	18.2	11.734	CC, ES
HWY 4O-32H-O268 - OH - PLAN #1	11,737.9	11,629.8	450.6	301.2	3.016	SF
HWY 4P-32H-O268 - OH - PLAN #1	500.0	500.0	9.8	8.1	5.784	CC, ES
HWY 4P-32H-O268 - OH - PLAN #1	11,845.2	11,819.5	329.9	175.1	2.132	SF
HWY 4R-32H-O268 - OH - PLAN #1	500.0	500.0	10.1	8.4	5.950	CC
HWY 4R-32H-O268 - OH - PLAN #1	11,400.0	11,409.2	122.0	-18.2	0.870	Level 1, ES, SF
HWY 4S-32H-O268 - OH - PLAN #1	400.0	400.0	20.1	18.8	14.990	CC, ES
HWY 4S-32H-O268 - OH - PLAN #1	11,845.2	11,878.1	330.0	174.7	2.125	SF
HWY 4T-32H-O268 - OH - PLAN #1	303.4	303.4	30.2	29.2	30.020	CC
HWY 4T-32H-O268 - OH - PLAN #1	400.0	399.8	30.4	29.1	22.644	ES
HWY 4T-32H-O268 - OH - PLAN #1	11,845.2	11,880.0	659.4	503.5	4.228	SF
HWY 4U-32H-O268 - OH - PLAN #1	200.0	200.0	40.0	39.4	61.959	CC
HWY 4U-32H-O268 - OH - PLAN #1	300.0	299.9	40.1	39.1	40.127	ES
HWY 4U-32H-O268 - OH - PLAN #1	11,845.2	11,961.1	825.0	669.7	5.311	SF
HWY 4V-32H-O268 - OH - PLAN #1	207.4	207.4	50.1	49.4	74.561	CC
HWY 4V-32H-O268 - OH - PLAN #1	400.0	399.8	50.3	48.9	37.181	ES
HWY 4V-32H-O268 - OH - PLAN #1	11,845.2	11,939.2	990.0	834.7	6.374	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 4Q-32H-O268
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Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52) NEW						
HWY 4W-32H-O268 - OH - PLAN #1	200.0	200.0	60.2	59.5	93.152	CC, ES
HWY 4W-32H-O268 - OH - PLAN #1	11,845.2	11,834.9	1,322.0	1,166.8	8.520	SF

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 31-32 - ENCANA WELL - PLAN ONLY													Offset Site Error: 0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,500.0	7,500.0	7,551.1	7,447.0	55.5	23.6	-90.00	4,216.8	-60.3	1,458.8	1,404.1	54.66	26.688		
10,600.0	7,500.0	7,551.1	7,447.0	57.1	23.6	-90.00	4,216.8	-60.3	1,370.0	1,313.7	56.29	24.338		
10,700.0	7,500.0	7,551.1	7,447.0	58.8	23.6	-90.00	4,216.8	-60.3	1,282.8	1,224.6	58.11	22.073		
10,800.0	7,500.0	7,551.1	7,447.0	60.5	23.6	-90.00	4,216.8	-60.3	1,197.6	1,137.4	60.17	19.904		
10,900.0	7,500.0	7,551.1	7,447.0	62.2	23.6	-90.00	4,216.8	-60.3	1,114.8	1,052.4	62.48	17.842		
11,000.0	7,500.0	7,551.1	7,447.0	63.9	23.6	-90.00	4,216.8	-60.3	1,035.2	970.1	65.09	15.904		
11,100.0	7,500.0	7,551.1	7,447.0	65.6	23.6	-90.00	4,216.8	-60.3	959.3	891.3	68.02	14.104		
11,200.0	7,500.0	7,551.1	7,447.0	67.3	23.6	-90.00	4,216.8	-60.3	888.2	816.9	71.28	12.461		
11,300.0	7,500.0	7,551.1	7,447.0	69.0	23.6	-90.00	4,216.8	-60.3	823.2	748.3	74.88	10.993		
11,400.0	7,500.0	7,551.1	7,447.0	70.7	23.6	-90.00	4,216.8	-60.3	765.7	687.0	78.77	9.721		
11,500.0	7,500.0	7,551.1	7,447.0	72.4	23.6	-90.00	4,216.8	-60.3	717.7	634.8	82.84	8.663		
11,600.0	7,500.0	7,551.1	7,447.0	74.1	23.6	-90.00	4,216.8	-60.3	681.0	594.2	86.82	7.844		
11,700.0	7,500.0	7,551.1	7,447.0	75.8	23.6	-90.00	4,216.8	-60.3	657.6	567.3	90.28	7.284		
11,800.0	7,500.0	7,551.1	7,447.0	77.5	23.6	-90.00	4,216.8	-60.3	648.9	556.2	92.69	7.001		
11,806.5	7,500.0	7,551.1	7,447.0	77.6	23.6	-90.00	4,216.8	-60.3	648.9	556.1	92.80	6.992 CC, ES		
11,845.2	7,500.0	7,551.1	7,447.0	78.3	23.6	-90.00	4,216.8	-60.3	650.1	556.7	93.31	6.967 SF		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 32-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,500.0	7,611.0	7,405.9	32.9	27.6	-86.55	2,791.4	-71.3	1,441.5	1,387.7	53.84	26.773		
9,200.0	7,500.0	7,612.7	7,407.6	34.4	27.6	-86.69	2,791.5	-71.4	1,354.3	1,298.9	55.36	24.463		
9,300.0	7,500.0	7,614.4	7,409.3	36.0	27.6	-86.84	2,791.5	-71.4	1,268.9	1,211.9	57.03	22.248		
9,400.0	7,500.0	7,616.1	7,411.1	37.5	27.6	-86.98	2,791.5	-71.5	1,185.8	1,126.9	58.88	20.141		
9,500.0	7,500.0	7,617.9	7,412.8	39.1	27.6	-87.13	2,791.6	-71.5	1,105.5	1,044.6	60.90	18.155		
9,600.0	7,500.0	7,619.6	7,414.5	40.7	27.6	-87.27	2,791.6	-71.6	1,028.7	965.6	63.08	16.307		
9,700.0	7,500.0	7,621.3	7,416.2	42.3	27.6	-87.42	2,791.6	-71.6	956.2	890.8	65.41	14.619		
9,800.0	7,500.0	7,623.1	7,418.0	43.9	27.6	-87.56	2,791.6	-71.7	889.0	821.2	67.81	13.110		
9,900.0	7,500.0	7,624.8	7,419.7	45.6	27.6	-87.68	2,791.7	-71.7	827.6	757.4	70.14	11.798		
10,000.0	7,500.0	7,626.6	7,421.5	47.2	27.6	-87.83	2,791.7	-71.8	773.7	701.4	72.24	10.709		
10,100.0	7,500.0	7,628.4	7,423.3	48.8	27.6	-87.98	2,791.7	-71.8	729.5	655.7	73.85	9.879		
10,200.0	7,500.0	7,630.1	7,425.0	50.5	27.6	-88.13	2,791.8	-71.9	697.1	622.4	74.64	9.339		
10,300.0	7,500.0	7,631.9	7,426.8	52.1	27.6	-88.28	2,791.8	-71.9	677.9	603.6	74.34	9.120 SF		
10,381.7	7,500.0	7,633.3	7,428.2	53.5	27.6	-88.40	2,791.8	-72.0	673.0	599.8	73.18	9.197 CC, ES		
10,400.0	7,500.0	7,633.7	7,428.6	53.8	27.6	-88.43	2,791.8	-72.0	673.2	600.4	72.81	9.247		
10,500.0	7,500.0	7,635.4	7,430.3	55.5	27.6	-88.58	2,791.9	-72.0	683.3	613.1	70.19	9.735		
10,600.0	7,500.0	7,637.2	7,432.1	57.1	27.6	-88.73	2,791.9	-72.1	707.5	640.7	66.86	10.582		
10,700.0	7,500.0	7,638.9	7,433.8	58.8	27.6	-88.88	2,791.9	-72.1	744.5	681.2	63.31	11.760		
10,800.0	7,500.0	7,640.7	7,435.6	60.5	27.6	-89.03	2,791.9	-72.2	792.4	732.5	59.93	13.222		
10,900.0	7,500.0	7,642.4	7,437.3	62.2	27.6	-89.18	2,792.0	-72.2	849.4	792.4	56.98	14.908		
11,000.0	7,500.0	7,644.2	7,439.1	63.9	27.6	-89.33	2,792.0	-72.3	913.9	859.4	54.51	16.765		
11,100.0	7,500.0	7,645.9	7,440.8	65.6	27.6	-89.47	2,792.0	-72.3	984.3	931.8	52.50	18.748		
11,200.0	7,500.0	7,647.7	7,442.6	67.3	27.6	-89.62	2,792.1	-72.4	1,059.4	1,008.6	50.86	20.828		
11,300.0	7,500.0	7,649.4	7,444.3	69.0	27.6	-89.77	2,792.1	-72.4	1,138.4	1,088.9	49.54	22.982		
11,400.0	7,500.0	7,651.2	7,446.1	70.7	27.6	-89.92	2,792.1	-72.5	1,220.5	1,172.0	48.45	25.190		
11,500.0	7,500.0	7,652.9	7,447.8	72.4	27.6	-90.07	2,792.2	-72.5	1,305.1	1,257.5	47.56	27.439		
11,600.0	7,500.0	7,654.6	7,449.5	74.1	27.6	-90.22	2,792.2	-72.6	1,391.7	1,344.9	46.83	29.716		
11,700.0	7,500.0	7,656.4	7,451.3	75.8	27.6	-90.36	2,792.2	-72.6	1,480.0	1,433.8	46.23	32.011		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 41-32 - ENCANA WELL - NO SURVEYS											Offset Site Error:		0.0 ft	
Survey Program: 8170-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,700.0	7,500.0	7,392.0	7,392.0	58.8	12.9	90.00	4,238.8	1,474.5	1,424.5	1,380.3	44.20	32.227		
10,800.0	7,500.0	7,392.0	7,392.0	60.5	12.9	90.00	4,238.8	1,474.5	1,347.6	1,300.5	47.13	28.596		
10,900.0	7,500.0	7,392.0	7,392.0	62.2	12.9	90.00	4,238.8	1,474.5	1,274.0	1,223.5	50.43	25.264		
11,000.0	7,500.0	7,392.0	7,392.0	63.9	12.9	90.00	4,238.8	1,474.5	1,204.1	1,150.0	54.11	22.253		
11,100.0	7,500.0	7,392.0	7,392.0	65.6	12.9	90.00	4,238.8	1,474.5	1,138.8	1,080.6	58.18	19.574		
11,200.0	7,500.0	7,392.0	7,392.0	67.3	12.9	90.00	4,238.8	1,474.5	1,078.8	1,016.2	62.60	17.234		
11,300.0	7,500.0	7,392.0	7,392.0	69.0	12.9	90.00	4,238.8	1,474.5	1,025.0	957.7	67.30	15.230		
11,400.0	7,500.0	7,392.0	7,392.0	70.7	12.9	90.00	4,238.8	1,474.5	978.6	906.4	72.18	13.557		
11,500.0	7,500.0	7,392.0	7,392.0	72.4	12.9	90.00	4,238.8	1,474.5	940.5	863.4	77.06	12.204		
11,600.0	7,500.0	7,392.0	7,392.0	74.1	12.9	90.00	4,238.8	1,474.5	911.8	830.1	81.73	11.157		
11,700.0	7,500.0	7,392.0	7,392.0	75.8	12.9	90.00	4,238.8	1,474.5	893.5	807.6	85.92	10.400		
11,800.0	7,500.0	7,392.0	7,392.0	77.5	12.9	90.00	4,238.8	1,474.5	886.2	796.8	89.40	9.912		
11,815.4	7,500.0	7,392.0	7,392.0	77.7	12.9	90.00	4,238.8	1,474.5	886.0	796.2	89.86	9.860 CC		
11,845.2	7,500.0	7,392.0	7,392.0	78.3	12.9	90.00	4,238.8	1,474.5	886.5	795.8	90.70	9.775 ES, SF		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 4-2-32 - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,500.0	7,726.4	7,452.9	50.5	32.0	-89.67	3,428.3	-634.6	1,479.9	1,408.1	71.72	20.634		
10,300.0	7,500.0	7,726.3	7,452.7	52.1	32.0	-89.66	3,428.3	-634.6	1,426.7	1,353.7	72.96	19.553		
10,400.0	7,500.0	7,726.2	7,452.6	53.8	32.0	-89.66	3,428.3	-634.6	1,378.7	1,304.6	74.11	18.603		
10,500.0	7,500.0	7,726.1	7,452.5	55.5	32.0	-89.65	3,428.3	-634.6	1,336.5	1,261.4	75.13	17.791		
10,600.0	7,500.0	7,726.0	7,452.4	57.1	32.0	-89.64	3,428.3	-634.6	1,300.7	1,224.7	75.97	17.121		
10,700.0	7,500.0	7,725.8	7,452.2	58.8	32.0	-89.64	3,428.3	-634.6	1,271.7	1,195.0	76.62	16.598		
10,800.0	7,500.0	7,725.7	7,452.1	60.5	32.0	-89.63	3,428.3	-634.6	1,250.0	1,173.0	77.07	16.220		
10,900.0	7,500.0	7,725.6	7,452.0	62.2	32.0	-89.63	3,428.3	-634.6	1,236.1	1,158.8	77.33	15.984		
11,000.0	7,500.0	7,725.5	7,451.9	63.9	32.0	-89.62	3,428.3	-634.6	1,230.2	1,152.7	77.47	15.881		
11,022.9	7,500.0	7,725.4	7,451.9	64.3	32.0	-89.62	3,428.3	-634.6	1,230.0	1,152.5	77.48	15.874	CC, ES, SF	
11,100.0	7,500.0	7,725.3	7,451.8	65.6	32.0	-89.62	3,428.3	-634.6	1,232.4	1,154.9	77.53	15.896		
11,200.0	7,500.0	7,725.2	7,451.6	67.3	32.0	-89.61	3,428.3	-634.6	1,242.7	1,165.1	77.59	16.016		
11,300.0	7,500.0	7,725.1	7,451.5	69.0	32.0	-89.61	3,428.3	-634.6	1,260.8	1,183.2	77.67	16.233		
11,400.0	7,500.0	7,725.0	7,451.4	70.7	32.0	-89.60	3,428.3	-634.6	1,286.5	1,208.7	77.77	16.543		
11,500.0	7,500.0	7,724.9	7,451.3	72.4	32.0	-89.59	3,428.3	-634.6	1,319.3	1,241.4	77.85	16.948		
11,600.0	7,500.0	7,724.8	7,451.2	74.1	32.0	-89.59	3,428.3	-634.6	1,358.7	1,280.8	77.86	17.450		
11,700.0	7,500.0	7,724.6	7,451.1	75.8	32.0	-89.58	3,428.3	-634.6	1,404.1	1,326.3	77.78	18.052		
11,800.0	7,500.0	7,724.5	7,450.9	77.5	32.0	-89.58	3,428.3	-634.6	1,454.9	1,377.3	77.60	18.749		
11,845.2	7,500.0	7,724.5	7,450.9	78.3	32.0	-89.58	3,428.3	-634.6	1,479.6	1,402.1	77.48	19.095		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON 6-4-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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		
8,300.0	7,500.0	7,705.1	7,461.9	22.0	30.4	-91.42	2,197.4	529.2	1,482.8	1,448.9	33.84	43.818		
8,400.0	7,500.0	7,704.8	7,461.7	23.2	30.4	-91.25	2,197.4	529.2	1,382.9	1,348.8	34.11	40.546		
8,500.0	7,500.0	7,704.6	7,461.4	24.4	30.4	-91.09	2,197.4	529.2	1,283.1	1,248.7	34.40	37.303		
8,600.0	7,500.0	7,704.4	7,461.2	25.7	30.4	-90.92	2,197.4	529.2	1,183.2	1,148.5	34.71	34.089		
8,700.0	7,500.0	7,704.2	7,461.0	27.1	30.4	-90.76	2,197.4	529.2	1,083.5	1,048.4	35.06	30.903		
8,800.0	7,500.0	7,704.0	7,460.8	28.5	30.4	-90.59	2,197.4	529.2	983.7	948.3	35.46	27.746		
8,900.0	7,500.0	7,703.7	7,460.6	29.9	30.4	-90.43	2,197.4	529.2	884.1	848.2	35.91	24.617		
9,000.0	7,500.0	7,703.5	7,460.3	31.4	30.4	-90.26	2,197.4	529.2	784.5	748.0	36.46	21.518		
9,100.0	7,500.0	7,703.3	7,460.1	32.9	30.4	-90.10	2,197.4	529.2	685.0	647.9	37.13	18.449		
9,200.0	7,500.0	7,703.1	7,459.9	34.4	30.4	-89.93	2,197.4	529.2	585.7	547.7	38.00	15.413		
9,300.0	7,500.0	7,702.9	7,459.7	36.0	30.4	-89.77	2,197.4	529.2	486.8	447.6	39.20	12.417		
9,400.0	7,500.0	7,702.7	7,459.5	37.5	30.4	-89.61	2,197.4	529.2	388.3	347.3	40.99	9.472		
9,500.0	7,500.0	7,702.5	7,459.3	39.1	30.4	-89.45	2,197.4	529.2	290.9	246.9	43.99	6.612		
9,600.0	7,500.0	7,702.2	7,459.1	40.7	30.4	-89.29	2,197.4	529.2	196.1	146.1	49.91	3.928		
9,700.0	7,500.0	7,702.0	7,458.8	42.3	30.4	-89.13	2,197.4	529.2	110.8	46.9	63.86	1.735		
9,780.9	7,500.0	7,701.9	7,458.7	43.6	30.4	-89.00	2,197.4	529.2	75.7	3.7	71.94	1.052 Level 2, CC, ES, SF		
9,800.0	7,500.0	7,701.8	7,458.6	43.9	30.4	-88.97	2,197.4	529.2	78.1	11.5	66.63	1.173 Level 2		
9,900.0	7,500.0	7,701.6	7,458.4	45.6	30.4	-88.83	2,197.4	529.2	140.6	103.7	36.92	3.809		
10,000.0	7,500.0	7,701.4	7,458.3	47.2	30.4	-88.70	2,197.4	529.2	231.0	200.1	30.89	7.478		
10,100.0	7,500.0	7,701.3	7,458.1	48.8	30.4	-88.56	2,197.4	529.2	327.0	296.4	30.57	10.696		
10,200.0	7,500.0	7,701.1	7,457.9	50.5	30.4	-88.43	2,197.4	529.2	424.8	393.7	31.10	13.658		
10,300.0	7,500.0	7,700.9	7,457.7	52.1	30.4	-88.30	2,197.4	529.2	523.5	491.8	31.71	16.510		
10,400.0	7,500.0	7,700.7	7,457.5	53.8	30.4	-88.16	2,197.4	529.2	622.6	590.3	32.25	19.304		
10,500.0	7,500.0	7,700.5	7,457.4	55.5	30.4	-88.03	2,197.4	529.3	721.9	689.2	32.73	22.061		
10,600.0	7,500.0	7,700.4	7,457.2	57.1	30.4	-87.90	2,197.4	529.3	821.4	788.3	33.14	24.788		
10,700.0	7,500.0	7,700.2	7,457.0	58.8	30.4	-87.76	2,197.4	529.3	921.1	887.6	33.50	27.491		
10,800.0	7,500.0	7,700.0	7,456.8	60.5	30.4	-87.63	2,197.4	529.3	1,020.7	986.9	33.83	30.173		
10,900.0	7,500.0	7,699.8	7,456.7	62.2	30.4	-87.50	2,197.4	529.3	1,120.5	1,086.4	34.13	32.834		
11,000.0	7,500.0	7,699.0	7,454.8	63.9	30.4	-86.13	2,197.4	529.3	1,220.3	1,185.9	34.39	35.479		
11,100.0	7,500.0	7,698.0	7,454.8	65.6	30.4	-86.13	2,197.4	529.3	1,320.1	1,285.4	34.65	38.101		
11,200.0	7,500.0	7,698.0	7,454.8	67.3	30.4	-86.13	2,197.4	529.3	1,419.9	1,385.1	34.88	40.705		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST 32-2 - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,500.0	7,500.0	7,200.0	7,198.1	55.5	12.7	-69.74	4,182.0	-61.2	1,448.2	1,398.3	49.92	29.013		
10,600.0	7,500.0	7,200.0	7,198.1	57.1	12.7	-69.74	4,182.0	-61.2	1,361.3	1,309.4	51.84	26.260		
10,700.0	7,500.0	7,200.0	7,198.1	58.8	12.7	-69.74	4,182.0	-61.2	1,276.2	1,222.2	53.98	23.641		
10,800.0	7,500.0	7,200.0	7,198.1	60.5	12.7	-69.74	4,182.0	-61.2	1,193.5	1,137.1	56.38	21.170		
10,900.0	7,500.0	7,200.0	7,198.1	62.2	12.7	-69.74	4,182.0	-61.2	1,113.6	1,054.5	59.04	18.862		
11,000.0	7,500.0	7,200.0	7,198.1	63.9	12.7	-69.74	4,182.0	-61.2	1,037.2	975.2	61.99	16.732		
11,100.0	7,500.0	7,200.0	7,198.1	65.6	12.7	-69.74	4,182.0	-61.2	965.1	899.9	65.22	14.799		
11,200.0	7,500.0	7,200.0	7,198.1	67.3	12.7	-69.74	4,182.0	-61.2	898.4	829.7	68.68	13.080		
11,300.0	7,500.0	7,200.0	7,198.1	69.0	12.7	-69.74	4,182.0	-61.2	838.3	766.0	72.29	11.596		
11,400.0	7,500.0	7,200.0	7,198.1	70.7	12.7	-69.74	4,182.0	-61.2	786.4	710.5	75.88	10.364		
11,500.0	7,500.0	7,200.0	7,198.1	72.4	12.7	-69.74	4,182.0	-61.2	744.4	665.2	79.16	9.403		
11,600.0	7,500.0	7,200.0	7,198.1	74.1	12.7	-69.74	4,182.0	-61.2	714.0	632.2	81.80	8.728		
11,700.0	7,500.0	7,200.0	7,198.1	75.8	12.7	-69.74	4,182.0	-61.2	696.7	613.3	83.42	8.352		
11,771.7	7,500.0	7,200.0	7,198.1	77.0	12.7	-69.74	4,182.0	-61.2	693.0	609.2	83.81	8.269	CC, ES, SF	
11,800.0	7,500.0	7,200.0	7,198.1	77.5	12.7	-69.74	4,182.0	-61.2	693.6	609.8	83.77	8.280		
11,845.2	7,500.0	7,200.0	7,198.1	78.3	12.7	-69.74	4,182.0	-61.2	696.9	613.4	83.49	8.347		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST 32-8 - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7765-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
9,000.0	7,500.0	7,459.0	7,459.0	31.4	13.0	90.00	2,675.7	1,236.5	1,412.2	1,383.6	28.69	49.222		
9,100.0	7,500.0	7,459.0	7,459.0	32.9	13.0	90.00	2,675.7	1,236.5	1,323.4	1,294.2	29.16	45.384		
9,200.0	7,500.0	7,459.0	7,459.0	34.4	13.0	90.00	2,675.7	1,236.5	1,236.3	1,206.4	29.88	41.375		
9,300.0	7,500.0	7,459.0	7,459.0	36.0	13.0	90.00	2,675.7	1,236.5	1,151.2	1,120.3	30.92	37.233		
9,400.0	7,500.0	7,459.0	7,459.0	37.5	13.0	90.00	2,675.7	1,236.5	1,068.8	1,036.4	32.36	33.031		
9,500.0	7,500.0	7,459.0	7,459.0	39.1	13.0	90.00	2,675.7	1,236.5	989.5	955.3	34.27	28.875		
9,600.0	7,500.0	7,459.0	7,459.0	40.7	13.0	90.00	2,675.7	1,236.5	914.4	877.7	36.73	24.894		
9,700.0	7,500.0	7,459.0	7,459.0	42.3	13.0	90.00	2,675.7	1,236.5	844.4	804.6	39.80	21.219		
9,800.0	7,500.0	7,459.0	7,459.0	43.9	13.0	90.00	2,675.7	1,236.5	781.1	737.6	43.48	17.965		
9,900.0	7,500.0	7,459.0	7,459.0	45.6	13.0	90.00	2,675.7	1,236.5	726.9	679.2	47.75	15.225		
10,000.0	7,500.0	7,459.0	7,459.0	47.2	13.0	90.00	2,675.7	1,236.5	683.8	631.4	52.38	13.054		
10,100.0	7,500.0	7,459.0	7,459.0	48.8	13.0	90.00	2,675.7	1,236.5	653.2	596.2	57.04	11.452		
10,200.0	7,500.0	7,459.0	7,459.0	50.5	13.0	90.00	2,675.7	1,236.5	637.0	575.8	61.26	10.398		
10,254.4	7,500.0	7,459.0	7,459.0	51.4	13.0	90.00	2,675.7	1,236.5	634.7	571.5	63.22	10.040 CC, ES		
10,300.0	7,500.0	7,459.0	7,459.0	52.1	13.0	90.00	2,675.7	1,236.5	636.3	571.7	64.61	9.849		
10,400.0	7,500.0	7,459.0	7,459.0	53.8	13.0	90.00	2,675.7	1,236.5	651.2	584.4	66.82	9.746 SF		
10,500.0	7,500.0	7,459.0	7,459.0	55.5	13.0	90.00	2,675.7	1,236.5	680.6	612.7	67.86	10.029		
10,600.0	7,500.0	7,459.0	7,459.0	57.1	13.0	90.00	2,675.7	1,236.5	722.7	654.8	67.94	10.638		
10,700.0	7,500.0	7,459.0	7,459.0	58.8	13.0	90.00	2,675.7	1,236.5	775.5	708.2	67.34	11.517		
10,800.0	7,500.0	7,459.0	7,459.0	60.5	13.0	90.00	2,675.7	1,236.5	837.0	770.7	66.33	12.618		
10,900.0	7,500.0	7,459.0	7,459.0	62.2	13.0	90.00	2,675.7	1,236.5	905.4	840.3	65.12	13.902		
11,000.0	7,500.0	7,459.0	7,459.0	63.9	13.0	90.00	2,675.7	1,236.5	979.2	915.3	63.85	15.336		
11,100.0	7,500.0	7,459.0	7,459.0	65.6	13.0	90.00	2,675.7	1,236.5	1,057.3	994.7	62.60	16.891		
11,200.0	7,500.0	7,459.0	7,459.0	67.3	13.0	90.00	2,675.7	1,236.5	1,138.9	1,077.5	61.40	18.547		
11,300.0	7,500.0	7,459.0	7,459.0	69.0	13.0	90.00	2,675.7	1,236.5	1,223.2	1,162.9	60.30	20.286		
11,400.0	7,500.0	7,459.0	7,459.0	70.7	13.0	90.00	2,675.7	1,236.5	1,309.7	1,250.4	59.28	22.092		
11,500.0	7,500.0	7,459.0	7,459.0	72.4	13.0	90.00	2,675.7	1,236.5	1,398.0	1,339.7	58.36	23.955		
11,600.0	7,500.0	7,459.0	7,459.0	74.1	13.0	90.00	2,675.7	1,236.5	1,487.8	1,430.3	57.52	25.864		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - ANDERSON TRUST C 1 - ENCANA WELL - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
9,900.0	7,500.0	7,474.4	7,472.8	45.6	13.2	98.31	3,719.8	796.6	1,417.3	1,386.5	30.79	46.036		
10,000.0	7,500.0	7,472.2	7,470.5	47.2	13.2	97.69	3,719.9	796.7	1,318.4	1,287.7	30.73	42.899		
10,100.0	7,500.0	7,470.0	7,468.3	48.8	13.2	97.08	3,719.9	796.7	1,219.7	1,189.1	30.69	39.747		
10,200.0	7,500.0	7,467.8	7,466.2	50.5	13.2	96.49	3,720.0	796.7	1,121.3	1,090.6	30.66	36.570		
10,300.0	7,500.0	7,465.8	7,464.1	52.1	13.2	95.91	3,720.0	796.8	1,023.1	992.5	30.68	33.350		
10,400.0	7,500.0	7,463.7	7,462.1	53.8	13.2	95.35	3,720.0	796.8	925.4	894.6	30.78	30.065		
10,500.0	7,500.0	7,461.8	7,460.1	55.5	13.2	94.80	3,720.1	796.8	828.2	797.1	31.03	26.688		
10,600.0	7,500.0	7,459.9	7,458.2	57.1	13.2	94.27	3,720.1	796.9	731.7	700.1	31.56	23.185		
10,700.0	7,500.0	7,458.0	7,456.4	58.8	13.2	93.75	3,720.1	796.9	636.3	603.7	32.57	19.533		
10,800.0	7,500.0	7,456.2	7,454.5	60.5	13.2	93.24	3,720.2	796.9	542.5	508.1	34.46	15.744		
10,900.0	7,500.0	7,454.4	7,452.8	62.2	13.1	92.74	3,720.2	796.9	451.5	413.6	37.85	11.927		
11,000.0	7,500.0	7,452.7	7,451.0	63.9	13.1	92.26	3,720.2	797.0	365.1	321.3	43.80	8.335		
11,100.0	7,500.0	7,451.0	7,449.4	65.6	13.1	91.78	3,720.3	797.0	287.7	233.9	53.76	5.352		
11,200.0	7,500.0	7,449.4	7,447.7	67.3	13.1	91.32	3,720.3	797.0	228.6	160.3	68.22	3.350		
11,300.0	7,500.0	7,447.8	7,446.1	69.0	13.1	90.87	3,720.3	797.0	204.2	123.3	80.92	2.524		
11,302.7	7,500.0	7,447.7	7,446.1	69.0	13.1	90.86	3,720.3	797.0	204.2	123.1	81.11	2.517 CC, ES, SF		
11,400.0	7,500.0	7,446.2	7,444.5	70.7	13.1	90.43	3,720.3	797.1	226.2	145.1	81.08	2.790		
11,500.0	7,500.0	7,444.7	7,443.0	72.4	13.1	90.00	3,720.4	797.1	283.9	210.5	73.38	3.869		
11,600.0	7,500.0	7,443.2	7,441.5	74.1	13.1	89.58	3,720.4	797.1	360.6	294.8	65.82	5.479		
11,700.0	7,500.0	7,441.7	7,440.1	75.8	13.1	89.17	3,720.4	797.1	446.7	386.5	60.19	7.421		
11,800.0	7,500.0	7,440.3	7,438.6	77.5	13.1	88.77	3,720.4	797.2	537.5	481.4	56.17	9.570		
11,845.2	7,500.0	7,439.6	7,438.0	78.3	13.1	88.60	3,720.4	797.2	579.6	524.9	54.74	10.588		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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 31-5 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 777-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			
2,400.0	2,391.7	2,768.4	2,728.5	5.1	7.8	102.46	-1,117.6	-921.4	1,492.0	1,480.1	11.88	125.609		
2,500.0	2,491.2	2,877.7	2,833.7	5.4	8.3	101.97	-1,122.7	-892.3	1,477.9	1,465.3	12.58	117.450		
2,600.0	2,590.6	2,968.9	2,921.5	5.6	8.8	101.55	-1,126.7	-867.9	1,463.6	1,450.3	13.23	110.658		
2,700.0	2,690.1	3,079.0	3,027.7	5.9	9.3	101.06	-1,131.1	-839.1	1,449.6	1,435.6	13.93	104.061		
2,800.0	2,789.5	3,162.0	3,107.8	6.1	9.7	100.71	-1,134.0	-817.5	1,435.4	1,420.8	14.55	98.685		
2,900.0	2,889.0	3,261.3	3,203.8	6.4	10.2	100.28	-1,137.9	-792.3	1,422.1	1,406.9	15.21	93.481		
3,000.0	2,988.4	3,358.5	3,297.8	6.6	10.6	99.87	-1,141.3	-767.9	1,408.7	1,392.8	15.88	88.728		
3,100.0	3,087.9	3,468.0	3,403.5	6.9	11.2	99.38	-1,145.2	-739.8	1,395.1	1,378.5	16.60	84.031		
3,200.0	3,187.3	3,560.6	3,492.7	7.2	11.6	98.92	-1,149.0	-715.3	1,381.3	1,364.1	17.29	79.903		
3,300.0	3,286.8	3,675.3	3,603.2	7.4	12.2	98.35	-1,153.3	-684.8	1,367.3	1,349.2	18.05	75.765		
3,400.0	3,386.2	3,772.9	3,697.2	7.7	12.7	97.87	-1,156.0	-658.6	1,352.6	1,333.8	18.74	72.162		
3,500.0	3,485.7	3,852.6	3,774.3	7.9	13.1	97.50	-1,158.4	-638.2	1,338.9	1,319.6	19.37	69.118		
3,600.0	3,585.1	3,945.5	3,864.2	8.2	13.5	97.09	-1,161.3	-615.5	1,326.2	1,306.2	20.03	66.200		
3,700.0	3,684.6	4,032.0	3,948.3	8.4	13.9	96.72	-1,164.4	-595.1	1,314.4	1,293.8	20.67	63.585		
3,800.0	3,784.0	4,121.1	4,034.9	8.7	14.3	96.34	-1,167.9	-574.7	1,303.6	1,282.2	21.32	61.149		
3,900.0	3,883.5	4,216.2	4,127.4	8.9	14.7	95.92	-1,172.2	-552.9	1,293.1	1,271.1	22.00	58.766		
4,000.0	3,982.9	4,320.2	4,228.3	9.2	15.2	95.39	-1,177.6	-528.1	1,282.7	1,259.9	22.74	56.394		
4,100.0	4,082.4	4,406.6	4,312.2	9.4	15.6	94.98	-1,181.9	-508.3	1,272.7	1,249.3	23.39	54.401		
4,200.0	4,181.8	4,501.3	4,404.6	9.7	16.0	94.57	-1,186.4	-487.7	1,263.5	1,239.4	24.06	52.509		
4,300.0	4,281.3	4,609.8	4,510.4	9.9	16.5	94.10	-1,191.3	-464.3	1,254.3	1,229.5	24.78	50.620		
4,400.0	4,380.7	4,720.9	4,618.6	10.2	17.0	93.63	-1,195.2	-439.6	1,243.8	1,218.3	25.50	48.783		
4,500.0	4,480.2	4,806.7	4,702.5	10.4	17.3	93.30	-1,197.8	-421.5	1,233.8	1,207.7	26.11	47.253		
4,600.0	4,579.6	4,898.5	4,792.6	10.7	17.6	93.03	-1,199.8	-403.9	1,224.5	1,197.8	26.70	45.857		
4,700.0	4,679.1	4,988.8	4,881.4	10.9	18.0	92.82	-1,201.8	-388.0	1,216.0	1,188.7	27.29	44.566		
4,800.0	4,778.5	5,097.2	4,987.9	11.2	18.4	92.51	-1,204.9	-367.9	1,207.6	1,179.7	27.95	43.212		
4,900.0	4,878.0	5,196.4	5,084.9	11.4	18.8	92.11	-1,208.7	-347.4	1,198.8	1,170.1	28.63	41.873		
5,000.0	4,977.4	5,290.2	5,176.7	11.7	19.2	91.74	-1,212.3	-328.7	1,190.3	1,161.0	29.26	40.681		
5,100.0	5,076.9	5,392.5	5,277.1	11.9	19.6	91.43	-1,215.3	-309.7	1,182.1	1,152.2	29.90	39.539		
5,200.0	5,176.3	5,485.8	5,368.8	12.2	19.9	91.15	-1,217.9	-292.5	1,173.8	1,143.3	30.50	38.481		
5,300.0	5,275.8	5,586.0	5,467.3	12.4	20.3	90.85	-1,221.0	-274.4	1,166.0	1,134.9	31.13	37.450		
5,400.0	5,375.2	5,689.1	5,568.6	12.7	20.7	90.51	-1,224.2	-255.3	1,157.9	1,126.2	31.78	36.435		
5,500.0	5,474.7	5,788.3	5,666.1	12.9	21.0	90.20	-1,227.0	-237.0	1,149.8	1,117.4	32.41	35.474		
5,600.0	5,574.1	5,889.2	5,765.3	13.2	21.4	89.90	-1,229.5	-218.8	1,141.6	1,108.6	33.03	34.561		
5,700.0	5,673.6	5,990.0	5,864.5	13.5	21.8	89.61	-1,231.7	-200.7	1,133.3	1,099.6	33.65	33.680		
5,800.0	5,773.0	6,075.2	5,948.5	13.7	22.0	89.46	-1,232.9	-187.1	1,125.5	1,091.3	34.19	32.922		
5,900.0	5,872.5	6,164.8	6,037.1	14.0	22.3	89.31	-1,235.1	-174.0	1,119.2	1,084.5	34.73	32.228		
6,000.0	5,971.9	6,263.4	6,134.6	14.2	22.6	89.17	-1,237.4	-159.7	1,112.9	1,077.6	35.28	31.542		
6,100.0	6,071.4	6,366.7	6,236.8	14.5	23.0	88.98	-1,240.3	-144.3	1,106.9	1,071.0	35.88	30.847		
6,200.0	6,170.8	6,474.6	6,343.0	14.7	23.3	88.66	-1,244.0	-126.0	1,100.2	1,063.7	36.52	30.124		
6,300.0	6,270.3	6,575.1	6,442.1	15.0	23.7	88.40	-1,246.6	-109.3	1,093.1	1,056.0	37.13	29.443		
6,400.0	6,369.7	6,671.9	6,537.6	15.2	24.0	88.19	-1,248.8	-93.9	1,086.1	1,048.4	37.70	28.807		
6,500.0	6,469.2	6,770.6	6,635.2	15.5	24.3	88.00	-1,251.0	-78.9	1,079.4	1,041.1	38.27	28.203		
6,600.0	6,568.6	6,866.9	6,730.4	15.7	24.6	87.85	-1,252.8	-64.9	1,072.8	1,034.0	38.82	27.635		
6,700.0	6,668.1	6,954.1	6,816.8	16.0	24.8	87.78	-1,254.4	-53.5	1,067.1	1,027.7	39.32	27.141		
6,800.0	6,767.5	7,045.4	6,907.7	16.2	25.0	104.66	-1,255.4	-44.4	1,062.5	1,022.8	39.75	26.734		
6,813.1	6,780.5	7,057.2	6,919.5	16.3	25.1	116.13	-1,255.5	-43.4	1,062.4	1,022.6	39.79	26.702 CC, ES		
6,900.0	6,867.0	7,136.6	6,998.7	16.4	25.2	173.95	-1,255.7	-37.8	1,067.2	1,027.2	40.08	26.630 SF		
7,000.0	6,964.8	7,231.2	7,093.1	16.5	25.3	-167.13	-1,255.5	-33.1	1,084.4	1,044.1	40.33	26.888		
7,100.0	7,059.3	7,327.8	7,189.7	16.5	25.4	-160.05	-1,254.2	-29.9	1,113.1	1,072.6	40.51	27.475		
7,200.0	7,148.4	7,414.6	7,276.4	16.5	25.5	-155.86	-1,252.1	-28.5	1,152.9	1,112.3	40.63	28.376		
7,300.0	7,230.4	7,489.7	7,351.5	16.4	25.6	-152.40	-1,250.5	-28.0	1,203.9	1,163.2	40.71	29.572		
7,400.0	7,303.8	7,561.8	7,423.6	16.4	25.7	-148.94	-1,249.0	-27.9	1,265.1	1,224.3	40.77	31.027		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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 31-5 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 777-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,500.0	7,367.2	7,624.8	7,486.6	16.5	25.7	-144.77	-1,247.9	-27.9	1,335.3	1,294.4	40.82	32.707		
7,600.0	7,419.2	7,677.6	7,539.4	16.7	25.8	-139.16	-1,246.9	-27.9	1,413.2	1,372.4	40.87	34.580		
7,700.0	7,459.0	7,720.2	7,582.0	17.1	25.8	-131.15	-1,246.1	-28.0	1,497.5	1,456.6	40.91	36.605		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Site Error: 0.0 ft	
Survey Program: 41-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	54.47	202.6	283.7	348.7					
100.0	100.0	88.4	88.4	0.1	0.1	54.53	202.5	284.3	349.1	348.8	0.28	1,261.649		
200.0	200.0	188.0	188.0	0.3	0.3	54.64	202.5	285.3	349.9	349.3	0.63	559.452		
300.0	300.0	289.4	289.4	0.5	0.5	54.78	202.2	286.4	350.6	349.6	0.98	358.690		
400.0	400.0	399.6	399.6	0.7	0.7	55.11	199.9	286.7	349.6	348.2	1.35	259.080		
500.0	500.0	507.4	507.1	0.8	0.9	55.99	193.3	286.4	345.9	344.2	1.73	199.932		
600.0	600.0	615.5	614.6	1.0	1.2	-66.92	181.2	286.9	339.8	337.7	2.15	157.925		
700.0	700.0	719.3	717.0	1.2	1.5	-64.87	164.4	287.9	331.0	328.4	2.62	126.213		
800.0	799.9	813.2	809.4	1.4	1.8	-62.83	147.5	289.9	322.1	319.0	3.10	103.790		
900.0	899.7	910.6	905.0	1.6	2.1	-60.61	129.4	293.6	314.1	310.4	3.64	86.400		
1,000.0	999.4	1,011.0	1,003.1	1.8	2.5	-58.11	109.0	298.3	305.7	301.5	4.24	72.167		
1,100.0	1,098.9	1,107.9	1,096.8	2.0	3.0	-54.97	85.2	304.5	297.1	292.2	4.91	60.483		
1,200.0	1,198.4	1,197.9	1,183.3	2.2	3.4	-51.48	61.2	312.4	290.6	285.1	5.58	52.108		
1,300.0	1,297.8	1,287.3	1,268.6	2.5	3.9	-47.66	36.9	323.0	288.3	282.1	6.24	46.188		
1,301.1	1,298.9	1,288.3	1,269.5	2.5	3.9	-47.62	36.7	323.1	288.3	282.1	6.25	46.136 CC, ES		
1,400.0	1,397.3	1,376.4	1,353.5	2.7	4.4	-43.80	13.1	336.1	290.5	283.7	6.86	42.350		
1,500.0	1,496.7	1,465.3	1,437.9	2.9	4.8	-40.11	-10.0	351.9	297.3	289.9	7.43	40.017		
1,600.0	1,596.1	1,558.8	1,526.1	3.2	5.4	-36.30	-34.6	370.2	307.4	299.5	7.98	38.516		
1,700.0	1,695.6	1,650.7	1,612.9	3.4	5.9	-32.90	-58.3	389.5	320.3	311.9	8.46	37.857		
1,800.0	1,795.0	1,740.5	1,697.1	3.7	6.5	-29.79	-81.7	410.0	336.4	327.5	8.89	37.829 SF		
1,900.0	1,894.5	1,834.2	1,784.1	3.9	7.1	-26.53	-108.0	432.8	355.3	346.0	9.32	38.110		
2,000.0	1,993.9	1,931.7	1,874.2	4.2	7.7	-23.16	-137.3	455.6	374.8	365.1	9.72	38.551		
2,100.0	2,093.4	2,028.6	1,964.2	4.4	8.4	-20.49	-164.3	479.1	395.7	385.6	10.07	39.298		
2,200.0	2,192.8	2,123.6	2,053.0	4.6	9.0	-18.35	-189.1	502.1	416.7	406.3	10.40	40.053		
2,300.0	2,292.3	2,218.6	2,141.4	4.9	9.6	-16.30	-214.9	525.6	439.1	428.4	10.70	41.029		
2,400.0	2,391.7	2,317.6	2,233.8	5.1	10.2	-14.60	-240.0	550.5	461.7	450.7	11.02	41.901		
2,500.0	2,491.2	2,412.4	2,322.5	5.4	10.8	-13.10	-264.1	574.2	484.5	473.2	11.32	42.816		
2,600.0	2,590.6	2,527.5	2,430.4	5.6	11.6	-11.31	-293.9	600.5	505.9	494.2	11.72	43.183		
2,700.0	2,690.1	2,627.6	2,524.9	5.9	12.2	-9.77	-319.8	620.9	525.3	513.3	12.01	43.729		
2,800.0	2,789.5	2,711.1	2,603.4	6.1	12.7	-8.56	-341.9	638.7	546.1	533.9	12.23	44.666		
2,900.0	2,889.0	2,791.0	2,677.4	6.4	13.3	-7.25	-366.1	656.8	570.4	558.0	12.40	45.986		
3,000.0	2,988.4	2,878.8	2,758.0	6.6	13.9	-5.84	-393.9	677.8	596.9	584.3	12.61	47.338		
3,100.0	3,087.9	2,978.8	2,849.7	6.9	14.6	-4.43	-425.3	702.5	624.3	611.4	12.89	48.448		
3,200.0	3,187.3	3,092.1	2,954.5	7.2	15.4	-2.99	-459.7	728.4	649.8	636.6	13.24	49.098		
3,300.0	3,286.8	3,189.3	3,044.9	7.4	16.1	-1.81	-488.7	749.2	674.1	660.6	13.49	49.964		
3,400.0	3,386.2	3,273.5	3,122.8	7.7	16.7	-0.80	-514.8	767.4	699.5	685.8	13.70	51.069		
3,500.0	3,485.7	3,359.3	3,201.5	7.9	17.3	0.31	-543.6	785.9	726.7	712.8	13.90	52.290		
3,600.0	3,585.1	3,483.4	3,316.0	8.2	18.2	1.75	-583.9	812.0	753.2	738.9	14.27	52.797		
3,700.0	3,684.6	3,618.1	3,442.4	8.4	19.0	2.89	-621.5	838.7	776.1	761.4	14.68	52.872		
3,800.0	3,784.0	3,820.2	3,638.0	8.7	19.8	4.30	-664.6	864.9	789.0	773.7	15.24	51.757		
3,900.0	3,883.5	3,914.4	3,730.4	8.9	20.2	4.85	-680.4	873.5	796.4	780.9	15.51	51.357		
4,000.0	3,982.9	4,019.7	3,833.9	9.2	20.6	5.32	-696.8	884.6	804.0	788.2	15.79	50.922		
4,100.0	4,082.4	4,125.2	3,937.9	9.4	20.9	5.58	-710.1	896.5	810.3	794.2	16.09	50.359		
4,200.0	4,181.8	4,209.3	4,020.7	9.7	21.2	5.76	-720.8	906.5	817.4	801.0	16.36	49.962		
4,300.0	4,281.3	4,290.1	4,099.8	9.9	21.5	6.01	-733.2	917.0	826.9	810.3	16.61	49.778		
4,400.0	4,380.7	4,369.4	4,177.1	10.2	21.9	6.28	-746.8	928.2	838.5	821.7	16.86	49.747		
4,500.0	4,480.2	4,455.9	4,260.9	10.4	22.3	6.64	-763.9	941.4	852.7	835.6	17.11	49.849		
4,600.0	4,579.6	4,574.5	4,376.1	10.7	22.8	6.99	-785.1	960.0	866.1	848.7	17.46	49.608		
4,700.0	4,679.1	4,654.4	4,453.8	10.9	23.2	7.24	-799.3	971.9	879.0	861.3	17.71	49.630		
4,800.0	4,778.5	4,727.4	4,524.2	11.2	23.6	7.55	-814.8	983.6	894.9	877.0	17.92	49.933		
4,900.0	4,878.0	4,798.9	4,592.6	11.4	24.0	7.84	-831.2	996.4	913.6	895.4	18.12	50.412		
5,000.0	4,977.4	4,868.3	4,658.3	11.7	24.4	8.13	-848.8	1,010.2	935.4	917.1	18.31	51.092		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - BROWN 41-5 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	4,961.0	4,745.3	11.9	25.0	8.64	-875.0	1,028.4	959.1	940.5	18.59	51.592		
5,200.0	5,176.3	5,083.2	4,860.7	12.2	25.8	9.41	-909.6	1,049.2	981.0	962.0	18.99	51.671		
5,300.0	5,275.8	5,196.8	4,968.2	12.4	26.4	10.16	-941.5	1,066.6	1,001.8	982.4	19.33	51.816		
5,400.0	5,375.2	5,291.8	5,058.7	12.7	27.0	10.69	-966.7	1,081.4	1,021.6	1,002.0	19.62	52.080		
5,500.0	5,474.7	5,365.3	5,128.4	12.9	27.4	11.05	-986.3	1,094.0	1,042.9	1,023.1	19.83	52.593		
5,600.0	5,574.1	5,514.8	5,270.7	13.2	28.2	11.70	-1,024.4	1,118.9	1,062.9	1,042.6	20.32	52.311		
5,700.0	5,673.6	5,660.3	5,411.0	13.5	28.9	12.26	-1,056.7	1,139.6	1,079.0	1,058.2	20.77	51.947		
5,800.0	5,773.0	5,791.2	5,538.8	13.7	29.4	12.74	-1,081.4	1,154.2	1,090.1	1,068.9	21.17	51.499		
5,900.0	5,872.5	5,908.9	5,653.9	14.0	29.9	13.27	-1,103.6	1,164.8	1,100.1	1,078.6	21.53	51.093		
6,000.0	5,971.9	6,023.8	5,766.5	14.2	30.3	13.96	-1,125.7	1,170.5	1,107.6	1,085.7	21.89	50.606		
6,100.0	6,071.4	6,131.5	5,871.8	14.5	30.7	14.69	-1,148.1	1,175.0	1,116.0	1,093.8	22.22	50.236		
6,200.0	6,170.8	6,250.4	5,988.8	14.7	31.1	15.28	-1,167.5	1,180.7	1,121.5	1,099.0	22.56	49.707		
6,300.0	6,270.3	6,417.2	6,154.4	15.0	31.5	15.72	-1,185.2	1,190.4	1,122.8	1,099.9	22.97	48.876		
6,358.5	6,328.4	6,469.2	6,206.2	15.1	31.6	15.85	-1,189.7	1,192.8	1,122.6	1,099.4	23.16	48.470		
6,400.0	6,369.7	6,503.4	6,240.2	15.2	31.7	15.91	-1,192.6	1,194.9	1,122.7	1,099.4	23.29	48.203		
6,500.0	6,469.2	6,584.0	6,320.2	15.5	31.9	16.02	-1,199.7	1,200.9	1,124.2	1,100.6	23.61	47.626		
6,600.0	6,568.6	6,721.3	6,456.7	15.7	32.2	16.09	-1,209.5	1,212.5	1,125.1	1,101.1	23.98	46.927		
6,700.0	6,668.1	6,821.5	6,556.5	16.0	32.4	16.07	-1,214.4	1,220.7	1,124.0	1,099.7	24.32	46.223		
6,778.2	6,745.9	6,900.1	6,634.7	16.2	32.5	28.95	-1,219.3	1,226.2	1,124.1	1,099.5	24.58	45.724		
6,800.0	6,767.5	6,923.8	6,658.3	16.2	32.6	33.02	-1,220.9	1,227.7	1,123.4	1,098.7	24.66	45.551		
6,900.0	6,867.0	7,045.8	6,779.9	16.4	32.8	102.45	-1,228.3	1,234.1	1,129.2	1,104.2	25.03	45.111		
7,000.0	6,964.8	7,155.2	6,889.0	16.5	33.0	121.18	-1,233.3	1,238.9	1,144.2	1,118.7	25.42	45.005		
7,100.0	7,059.3	7,257.1	6,990.8	16.5	33.1	127.62	-1,237.3	1,242.9	1,169.2	1,143.3	25.88	45.176		
7,200.0	7,148.4	7,351.5	7,085.1	16.5	33.3	130.45	-1,240.4	1,246.3	1,204.6	1,178.2	26.44	45.555		
7,300.0	7,230.4	7,439.6	7,173.1	16.4	33.4	131.53	-1,243.0	1,249.0	1,250.4	1,223.2	27.13	46.084		
7,400.0	7,303.8	7,517.4	7,250.8	16.4	33.5	131.21	-1,245.0	1,251.1	1,306.1	1,278.1	27.95	46.733		
7,500.0	7,367.2	7,582.3	7,315.8	16.5	33.6	129.38	-1,246.5	1,252.7	1,371.2	1,342.3	28.86	47.508		
7,600.0	7,419.2	7,634.5	7,367.9	16.7	33.6	125.64	-1,247.6	1,253.8	1,444.8	1,415.0	29.84	48.425		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5034-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	83.30	152.0	1,293.7	1,303.1					
100.0	100.0	64.0	64.0	0.1	0.1	83.30	152.0	1,293.7	1,302.6	1,302.4	0.26	5,005.241		
200.0	200.0	164.0	164.0	0.3	0.3	83.30	152.0	1,293.7	1,302.6	1,302.0	0.61	2,137.852		
300.0	300.0	264.0	264.0	0.5	0.5	83.30	152.0	1,293.7	1,302.6	1,301.7	0.96	1,359.198		
400.0	400.0	364.0	364.0	0.7	0.6	83.30	152.0	1,293.7	1,302.6	1,301.3	1.31	996.317		
500.0	500.0	464.0	464.0	0.8	0.8	83.30	152.0	1,293.7	1,302.6	1,301.0	1.66	786.371		
600.0	600.0	564.0	564.0	1.0	1.0	-41.17	152.0	1,293.7	1,302.0	1,300.0	2.01	649.116		
700.0	700.0	664.0	664.0	1.2	1.2	-41.26	152.0	1,293.7	1,300.0	1,297.6	2.36	551.764		
800.0	799.9	763.9	763.9	1.4	1.3	-41.41	152.0	1,293.7	1,296.7	1,294.0	2.71	478.713		
900.0	899.7	863.7	863.7	1.6	1.5	-41.62	152.0	1,293.7	1,292.1	1,289.1	3.07	421.534		
1,000.0	999.4	963.4	963.4	1.8	1.7	-41.89	152.0	1,293.7	1,286.3	1,282.9	3.43	375.289		
1,100.0	1,098.9	1,062.9	1,062.9	2.0	1.9	-42.22	152.0	1,293.7	1,279.2	1,275.4	3.80	336.889		
1,200.0	1,198.4	1,162.4	1,162.4	2.2	2.0	-42.54	152.0	1,293.7	1,271.4	1,267.2	4.17	304.873		
1,300.0	1,297.8	1,261.8	1,261.8	2.5	2.2	-42.86	152.0	1,293.7	1,263.7	1,259.1	4.55	277.928		
1,400.0	1,397.3	1,361.3	1,361.3	2.7	2.4	-43.18	152.0	1,293.7	1,256.0	1,251.1	4.93	254.974		
1,500.0	1,496.7	1,460.7	1,460.7	2.9	2.5	-43.51	152.0	1,293.7	1,248.3	1,243.0	5.31	235.207		
1,600.0	1,596.1	1,560.1	1,560.1	3.2	2.7	-43.84	152.0	1,293.7	1,240.7	1,235.0	5.69	218.020		
1,700.0	1,695.6	1,659.6	1,659.6	3.4	2.9	-44.18	152.0	1,293.7	1,233.2	1,227.1	6.08	202.949		
1,800.0	1,795.0	1,759.0	1,759.0	3.7	3.1	-44.52	152.0	1,293.7	1,225.7	1,219.2	6.46	189.633		
1,900.0	1,894.5	1,858.5	1,858.5	3.9	3.2	-44.87	152.0	1,293.7	1,218.2	1,211.3	6.85	177.787		
2,000.0	1,993.9	1,957.9	1,957.9	4.2	3.4	-45.21	152.0	1,293.7	1,210.8	1,203.5	7.24	167.184		
2,100.0	2,093.4	2,057.4	2,057.4	4.4	3.6	-45.57	152.0	1,293.7	1,203.4	1,195.7	7.63	157.642		
2,200.0	2,192.8	2,156.8	2,156.8	4.6	3.8	-45.93	152.0	1,293.7	1,196.0	1,188.0	8.03	149.011		
2,300.0	2,292.3	2,256.3	2,256.3	4.9	3.9	-46.29	152.0	1,293.7	1,188.8	1,180.3	8.42	141.169		
2,400.0	2,391.7	2,355.7	2,355.7	5.1	4.1	-46.65	152.0	1,293.7	1,181.5	1,172.7	8.82	134.014		
2,500.0	2,491.2	2,455.2	2,455.2	5.4	4.3	-47.02	152.0	1,293.7	1,174.3	1,165.1	9.21	127.460		
2,600.0	2,590.6	2,554.6	2,554.6	5.6	4.5	-47.40	152.0	1,293.7	1,167.2	1,157.6	9.61	121.437		
2,700.0	2,690.1	2,654.1	2,654.1	5.9	4.6	-47.78	152.0	1,293.7	1,160.1	1,150.1	10.01	115.884		
2,800.0	2,789.5	2,753.5	2,753.5	6.1	4.8	-48.16	152.0	1,293.7	1,153.1	1,142.6	10.41	110.748		
2,900.0	2,889.0	2,853.0	2,853.0	6.4	5.0	-48.55	152.0	1,293.7	1,146.1	1,135.3	10.81	105.986		
3,000.0	2,988.4	2,952.4	2,952.4	6.6	5.2	-48.95	152.0	1,293.7	1,139.1	1,127.9	11.22	101.559		
3,100.0	3,087.9	3,051.9	3,051.9	6.9	5.3	-49.35	152.0	1,293.7	1,132.3	1,120.6	11.62	97.433		
3,200.0	3,187.3	3,151.3	3,151.3	7.2	5.5	-49.75	152.0	1,293.7	1,125.4	1,113.4	12.03	93.579		
3,300.0	3,286.8	3,250.8	3,250.8	7.4	5.7	-50.16	152.0	1,293.7	1,118.7	1,106.2	12.43	89.972		
3,400.0	3,386.2	3,350.2	3,350.2	7.7	5.8	-50.57	152.0	1,293.7	1,112.0	1,099.1	12.84	86.590		
3,500.0	3,485.7	3,449.7	3,449.7	7.9	6.0	-50.99	152.0	1,293.7	1,105.3	1,092.1	13.25	83.414		
3,600.0	3,585.1	3,549.1	3,549.1	8.2	6.2	-51.41	152.0	1,293.7	1,098.7	1,085.1	13.66	80.424		
3,700.0	3,684.6	3,648.6	3,648.6	8.4	6.4	-51.84	152.0	1,293.7	1,092.2	1,078.1	14.07	77.606		
3,800.0	3,784.0	3,748.0	3,748.0	8.7	6.5	-52.28	152.0	1,293.7	1,085.7	1,071.2	14.49	74.947		
3,900.0	3,883.5	3,847.5	3,847.5	8.9	6.7	-52.71	152.0	1,293.7	1,079.3	1,064.4	14.90	72.433		
4,000.0	3,982.9	3,946.9	3,946.9	9.2	6.9	-53.16	152.0	1,293.7	1,073.0	1,057.7	15.32	70.054		
4,100.0	4,082.4	4,046.4	4,046.4	9.4	7.1	-53.61	152.0	1,293.7	1,066.7	1,051.0	15.73	67.799		
4,200.0	4,181.8	4,145.8	4,145.8	9.7	7.2	-54.06	152.0	1,293.7	1,060.5	1,044.3	16.15	65.659		
4,300.0	4,281.3	4,245.3	4,245.3	9.9	7.4	-54.52	152.0	1,293.7	1,054.4	1,037.8	16.57	63.627		
4,400.0	4,380.7	4,344.7	4,344.7	10.2	7.6	-54.99	152.0	1,293.7	1,048.3	1,031.3	16.99	61.695		
4,500.0	4,480.2	4,444.2	4,444.2	10.4	7.8	-55.46	152.0	1,293.7	1,042.3	1,024.9	17.41	59.856		
4,600.0	4,579.6	4,543.6	4,543.6	10.7	7.9	-55.93	152.0	1,293.7	1,036.4	1,018.5	17.84	58.104		
4,700.0	4,679.1	4,643.1	4,643.1	10.9	8.1	-56.41	152.0	1,293.7	1,030.5	1,012.2	18.26	56.433		
4,800.0	4,778.5	4,742.5	4,742.5	11.2	8.3	-56.90	152.0	1,293.7	1,024.7	1,006.0	18.69	54.838		
4,900.0	4,878.0	4,842.0	4,842.0	11.4	8.5	-57.39	152.0	1,293.7	1,019.0	999.9	19.11	53.315		
5,000.0	4,977.4	4,941.4	4,941.4	11.7	8.6	-57.89	152.0	1,293.7	1,013.4	993.8	19.54	51.860		
5,100.0	5,076.9	5,034.0	5,034.0	11.9	8.8	-58.36	152.0	1,293.7	1,007.8	987.9	19.96	50.496		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - CANINO 1-X - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5034-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,148.8	5,125.4	5,034.0	5,034.0	12.1	8.8	-58.36	152.0	1,293.7	1,006.7	986.6	20.07	50.151	CC, ES	
5,200.0	5,176.3	5,034.0	5,034.0	12.2	8.8	-58.36	152.0	1,293.7	1,008.0	987.8	20.15	50.012	SF	
5,300.0	5,275.8	5,034.0	5,034.0	12.4	8.8	-58.36	152.0	1,293.7	1,018.0	997.8	20.20	50.382		
5,400.0	5,375.2	5,034.0	5,034.0	12.7	8.8	-58.36	152.0	1,293.7	1,037.5	1,017.4	20.12	51.569		
5,500.0	5,474.7	5,034.0	5,034.0	12.9	8.8	-58.36	152.0	1,293.7	1,066.2	1,046.3	19.92	53.526		
5,600.0	5,574.1	5,034.0	5,034.0	13.2	8.8	-58.36	152.0	1,293.7	1,103.2	1,083.5	19.63	56.199		
5,700.0	5,673.6	5,034.0	5,034.0	13.5	8.8	-58.36	152.0	1,293.7	1,147.7	1,128.4	19.28	59.529		
5,800.0	5,773.0	5,034.0	5,034.0	13.7	8.8	-58.36	152.0	1,293.7	1,198.9	1,180.1	18.90	63.450		
5,900.0	5,872.5	5,034.0	5,034.0	14.0	8.8	-58.36	152.0	1,293.7	1,256.1	1,237.6	18.50	67.897		
6,000.0	5,971.9	5,034.0	5,034.0	14.2	8.8	-58.36	152.0	1,293.7	1,318.3	1,300.2	18.11	72.804		
6,100.0	6,071.4	5,034.0	5,034.0	14.5	8.8	-58.36	152.0	1,293.7	1,385.0	1,367.3	17.73	78.109		
6,200.0	6,170.8	5,034.0	5,034.0	14.7	8.8	-58.36	152.0	1,293.7	1,455.5	1,438.1	17.38	83.751		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 1 - TEXAS TEA WELL - NO SURVEYS												Offset Site Error:		0.0 ft	
Survey Program: 5050-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	-2.99	1,422.9	-74.4	1,425.4						
100.0	100.0	59.0	59.0	0.1	0.1	-2.99	1,422.9	-74.4	1,424.8	1,424.6	0.25	5,664.820			
200.0	200.0	159.0	159.0	0.3	0.3	-2.99	1,422.9	-74.4	1,424.8	1,424.2	0.60	2,372.420			
300.0	300.0	259.0	259.0	0.5	0.5	-2.99	1,422.9	-74.4	1,424.8	1,423.9	0.95	1,500.391			
400.0	400.0	359.0	359.0	0.7	0.6	-2.99	1,422.9	-74.4	1,424.8	1,423.5	1.30	1,097.123			
500.0	500.0	459.0	459.0	0.8	0.8	-2.99	1,422.9	-74.4	1,424.8	1,423.2	1.65	864.710	CC, ES		
600.0	600.0	559.0	559.0	1.0	1.0	-127.46	1,422.9	-74.4	1,425.4	1,423.4	2.00	713.718			
700.0	700.0	659.0	659.0	1.2	1.2	-127.53	1,422.9	-74.4	1,427.0	1,424.6	2.35	607.733			
800.0	799.9	758.9	758.9	1.4	1.3	-127.65	1,422.9	-74.4	1,429.6	1,426.9	2.70	529.035			
900.0	899.7	858.7	858.7	1.6	1.5	-127.81	1,422.9	-74.4	1,433.4	1,430.3	3.06	468.106			
1,000.0	999.4	958.4	958.4	1.8	1.7	-128.02	1,422.9	-74.4	1,438.2	1,434.8	3.43	419.402			
1,100.0	1,098.9	1,057.9	1,057.9	2.0	1.8	-128.27	1,422.9	-74.4	1,444.1	1,440.3	3.81	379.474			
1,200.0	1,198.4	1,157.4	1,157.4	2.2	2.0	-128.59	1,422.9	-74.4	1,450.7	1,446.5	4.19	346.568			
1,300.0	1,297.8	1,256.8	1,256.8	2.5	2.2	-128.91	1,422.9	-74.4	1,457.3	1,452.7	4.57	318.956			
1,400.0	1,397.3	1,356.3	1,356.3	2.7	2.4	-129.23	1,422.9	-74.4	1,463.9	1,458.9	4.95	295.513			
1,500.0	1,496.7	1,455.7	1,455.7	2.9	2.5	-129.55	1,422.9	-74.4	1,470.6	1,465.2	5.34	275.393			
1,600.0	1,596.1	1,555.1	1,555.1	3.2	2.7	-129.86	1,422.9	-74.4	1,477.3	1,471.6	5.73	257.957			
1,700.0	1,695.6	1,654.6	1,654.6	3.4	2.9	-130.17	1,422.9	-74.4	1,484.0	1,477.9	6.11	242.716			
1,800.0	1,795.0	1,754.0	1,754.0	3.7	3.1	-130.48	1,422.9	-74.4	1,490.8	1,484.3	6.50	229.289			
1,900.0	1,894.5	1,853.5	1,853.5	3.9	3.2	-130.78	1,422.9	-74.4	1,497.7	1,490.8	6.89	217.377	SF		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON 3 - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 5050-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	-84.53	134.1	-1,401.2	1,407.6					
100.0	100.0	96.0	96.0	0.1	0.2	-84.53	134.1	-1,401.2	1,407.6	1,407.3	0.32	4,452.915		
200.0	200.0	196.0	196.0	0.3	0.3	-84.53	134.1	-1,401.2	1,407.6	1,406.9	0.67	2,116.130		
300.0	300.0	296.0	296.0	0.5	0.5	-84.53	134.1	-1,401.2	1,407.6	1,406.6	1.01	1,387.829		
400.0	400.0	396.0	396.0	0.7	0.7	-84.53	134.1	-1,401.2	1,407.6	1,406.2	1.36	1,032.483		
500.0	500.0	496.0	496.0	0.8	0.9	-84.53	134.1	-1,401.2	1,407.6	1,405.9	1.71	822.012	CC, ES	
600.0	600.0	596.0	596.0	1.0	1.0	151.04	134.1	-1,401.2	1,408.3	1,406.3	2.06	683.157		
700.0	700.0	696.0	696.0	1.2	1.2	151.08	134.1	-1,401.2	1,410.6	1,408.2	2.41	585.025		
800.0	799.9	795.9	795.9	1.4	1.4	151.15	134.1	-1,401.2	1,414.4	1,411.7	2.76	512.086		
900.0	899.7	895.7	895.7	1.6	1.6	151.24	134.1	-1,401.2	1,419.8	1,416.7	3.11	455.804		
1,000.0	999.4	995.4	995.4	1.8	1.7	151.36	134.1	-1,401.2	1,426.7	1,423.2	3.47	411.110		
1,100.0	1,098.9	1,094.9	1,094.9	2.0	1.9	151.50	134.1	-1,401.2	1,435.1	1,431.3	3.83	374.798		
1,200.0	1,198.4	1,194.4	1,194.4	2.2	2.1	151.70	134.1	-1,401.2	1,444.3	1,440.2	4.19	344.800		
1,300.0	1,297.8	1,293.8	1,293.8	2.5	2.3	151.90	134.1	-1,401.2	1,453.6	1,449.0	4.55	319.480		
1,400.0	1,397.3	1,393.3	1,393.3	2.7	2.4	152.09	134.1	-1,401.2	1,462.9	1,457.9	4.91	297.845		
1,500.0	1,496.7	1,492.7	1,492.7	2.9	2.6	152.28	134.1	-1,401.2	1,472.1	1,466.9	5.27	279.158		
1,600.0	1,596.1	1,592.1	1,592.1	3.2	2.8	152.47	134.1	-1,401.2	1,481.4	1,475.8	5.64	262.863		
1,700.0	1,695.6	1,691.6	1,691.6	3.4	3.0	152.65	134.1	-1,401.2	1,490.8	1,484.8	6.00	248.533	SF	

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 2 - ENCANA - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	46.61	859.0	908.7	1,251.4					
100.0	100.0	53.3	53.3	0.1	0.1	46.61	859.0	908.7	1,250.5	1,250.2	0.24	5,179.326		
200.0	200.0	153.1	153.1	0.3	0.3	46.61	858.9	908.8	1,250.4	1,249.8	0.59	2,119.080		
210.6	210.6	163.6	163.6	0.3	0.3	46.61	858.9	908.8	1,250.4	1,249.8	0.63	1,993.985		
300.0	300.0	252.0	252.0	0.5	0.4	46.60	859.1	908.6	1,250.5	1,249.5	0.94	1,334.275		
400.0	400.0	350.8	350.8	0.7	0.6	46.59	859.4	908.5	1,250.6	1,249.3	1.28	973.735		
500.0	500.0	449.7	449.7	0.8	0.8	46.58	859.7	908.5	1,250.8	1,249.2	1.63	766.667		
600.0	600.0	552.2	552.2	1.0	1.0	-77.90	860.0	908.6	1,250.9	1,248.9	1.99	630.083		
700.0	700.0	654.0	654.0	1.2	1.1	-78.04	860.1	908.3	1,250.2	1,247.9	2.34	534.159		
800.0	799.9	752.9	752.9	1.4	1.3	-78.28	860.6	907.8	1,249.3	1,246.6	2.70	463.353		
900.0	899.7	853.9	853.9	1.6	1.5	-78.60	861.1	907.3	1,248.1	1,245.0	3.06	407.278		
1,000.0	999.4	954.4	954.4	1.8	1.7	-79.02	861.8	906.5	1,246.4	1,242.9	3.44	361.893		
1,100.0	1,098.9	1,054.0	1,054.0	2.0	1.8	-79.53	862.5	905.5	1,244.4	1,240.6	3.84	324.266		
1,200.0	1,198.4	1,156.1	1,156.1	2.2	2.0	-80.08	863.4	904.3	1,242.3	1,238.1	4.24	292.779		
1,300.0	1,297.8	1,257.0	1,257.0	2.5	2.2	-80.64	864.2	902.8	1,240.1	1,235.4	4.65	266.545		
1,400.0	1,397.3	1,355.5	1,355.4	2.7	2.4	-81.19	865.1	901.1	1,238.0	1,232.9	5.06	244.565		
1,500.0	1,496.7	1,454.5	1,454.4	2.9	2.5	-81.77	866.3	899.3	1,236.0	1,230.5	5.48	225.716		
1,600.0	1,596.1	1,552.8	1,552.7	3.2	2.7	-82.34	867.5	897.4	1,234.2	1,228.3	5.89	209.480		
1,700.0	1,695.6	1,650.5	1,650.4	3.4	2.9	-82.92	869.0	895.5	1,232.6	1,226.3	6.31	195.387		
1,800.0	1,795.0	1,750.8	1,750.7	3.7	3.1	-83.52	870.4	893.6	1,231.2	1,224.5	6.73	182.899		
1,900.0	1,894.5	1,851.6	1,851.4	3.9	3.3	-84.11	871.7	891.7	1,229.8	1,222.7	7.16	171.839		
2,000.0	1,993.9	1,951.0	1,950.8	4.2	3.4	-84.68	872.6	890.1	1,228.5	1,220.9	7.58	162.073		
2,100.0	2,093.4	2,049.6	2,049.4	4.4	3.6	-85.24	873.5	888.7	1,227.2	1,219.2	8.00	153.369		
2,200.0	2,192.8	2,147.5	2,147.3	4.6	3.8	-85.79	874.3	887.3	1,226.2	1,217.8	8.42	145.576		
2,300.0	2,292.3	2,249.6	2,249.4	4.9	4.0	-86.36	875.2	886.0	1,225.4	1,216.5	8.85	138.418		
2,400.0	2,391.7	2,353.8	2,353.5	5.1	4.1	-86.94	875.6	884.5	1,224.2	1,214.9	9.29	131.835		
2,500.0	2,491.2	2,454.3	2,454.0	5.4	4.3	-87.49	875.7	883.0	1,222.9	1,213.2	9.71	125.911		
2,600.0	2,590.6	2,554.9	2,554.6	5.6	4.5	-88.04	875.7	881.6	1,221.6	1,211.5	10.14	120.485		
2,700.0	2,690.1	2,653.0	2,652.7	5.9	4.7	-88.57	875.7	880.2	1,220.4	1,209.9	10.56	115.543		
2,800.0	2,789.5	2,754.4	2,754.0	6.1	4.8	-89.13	875.8	878.8	1,219.5	1,208.5	10.99	110.948		
2,900.0	2,889.0	2,856.4	2,856.1	6.4	5.0	-89.69	875.5	877.1	1,218.2	1,206.8	11.42	106.658		
3,000.0	2,988.4	2,952.7	2,952.4	6.6	5.2	-90.22	875.4	875.4	1,217.1	1,205.3	11.84	102.775		
3,100.0	3,087.9	3,049.6	3,049.2	6.9	5.4	-90.78	875.7	873.7	1,216.5	1,204.2	12.27	99.180		
3,200.0	3,187.3	3,149.0	3,148.6	7.2	5.5	-91.36	876.2	871.7	1,216.0	1,203.3	12.69	95.803		
3,300.0	3,286.8	3,249.8	3,249.4	7.4	5.7	-91.96	876.7	869.6	1,215.6	1,202.4	13.12	92.633		
3,400.0	3,386.2	3,349.7	3,349.2	7.7	5.9	-92.55	877.2	867.3	1,215.1	1,201.6	13.55	89.676		
3,500.0	3,485.7	3,447.5	3,447.0	7.9	6.1	-93.13	877.6	865.2	1,214.9	1,200.9	13.97	86.938		
3,542.0	3,527.4	3,488.3	3,487.9	8.0	6.1	-93.37	877.8	864.3	1,214.9	1,200.7	14.15	85.846		
3,600.0	3,585.1	3,544.9	3,544.4	8.2	6.2	-93.70	878.1	863.2	1,214.9	1,200.5	14.40	84.386		
3,700.0	3,684.6	3,644.6	3,644.1	8.4	6.4	-94.29	878.8	861.1	1,215.2	1,200.3	14.82	81.973		
3,800.0	3,784.0	3,748.5	3,748.0	8.7	6.6	-94.92	879.4	858.5	1,215.3	1,200.1	15.26	79.647		
3,900.0	3,883.5	3,850.0	3,849.5	8.9	6.8	-95.55	879.9	855.5	1,215.2	1,199.5	15.69	77.455		
3,921.6	3,905.0	3,871.2	3,870.6	9.0	6.8	-95.69	880.0	854.9	1,215.2	1,199.4	15.78	77.004		
4,000.0	3,982.9	3,946.1	3,945.5	9.2	7.0	-96.16	880.4	852.6	1,215.3	1,199.2	16.11	75.439		
4,100.0	4,082.4	4,040.6	4,040.0	9.4	7.1	-96.75	881.3	849.9	1,215.9	1,199.4	16.53	73.571		
4,200.0	4,181.8	4,135.7	4,135.0	9.7	7.3	-97.35	882.4	847.4	1,217.0	1,200.1	16.94	71.826		
4,300.0	4,281.3	4,231.2	4,230.5	9.9	7.5	-97.93	883.6	845.2	1,218.6	1,201.2	17.36	70.192		
4,400.0	4,380.7	4,326.9	4,326.1	10.2	7.7	-98.52	885.2	843.0	1,220.5	1,202.8	17.78	68.659		
4,500.0	4,480.2	4,422.4	4,421.6	10.4	7.8	-99.10	886.9	841.2	1,223.0	1,204.8	18.19	67.231		
4,600.0	4,579.6	4,521.3	4,520.5	10.7	8.0	-99.70	888.8	839.3	1,225.6	1,207.0	18.61	65.854		
4,700.0	4,679.1	4,615.7	4,614.8	10.9	8.2	-100.26	890.9	837.6	1,228.7	1,209.7	19.02	64.597		
4,800.0	4,778.5	4,717.5	4,716.6	11.2	8.4	-100.88	893.1	835.6	1,231.9	1,212.4	19.45	63.350		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 2 - ENCANA - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,900.0	4,878.0	4,810.1	4,809.1	11.4	8.5	-101.43	895.4	833.9	1,235.5	1,215.6	19.85	62.239		
5,000.0	4,977.4	4,908.8	4,907.8	11.7	8.7	-102.01	898.0	832.3	1,239.4	1,219.2	20.27	61.159		
5,100.0	5,076.9	5,015.4	5,014.3	11.9	8.9	-102.63	900.4	830.6	1,243.2	1,222.5	20.70	60.070		
5,200.0	5,176.3	5,113.0	5,111.9	12.2	9.1	-103.20	902.4	828.9	1,246.9	1,225.8	21.11	59.075		
5,300.0	5,275.8	5,211.7	5,210.6	12.4	9.2	-103.76	904.5	827.3	1,250.7	1,229.2	21.52	58.125		
5,400.0	5,375.2	5,309.8	5,308.6	12.7	9.4	-104.32	906.7	825.8	1,254.8	1,232.9	21.93	57.226		
5,500.0	5,474.7	5,406.7	5,405.5	12.9	9.6	-104.85	908.8	824.6	1,259.1	1,236.8	22.33	56.383		
5,600.0	5,574.1	5,509.4	5,508.2	13.2	9.8	-105.41	911.0	823.3	1,263.5	1,240.8	22.75	55.544		
5,700.0	5,673.6	5,610.7	5,609.5	13.5	10.0	-105.96	913.0	822.0	1,267.8	1,244.6	23.16	54.741		
5,800.0	5,773.0	5,711.3	5,710.0	13.7	10.1	-106.50	914.8	820.7	1,272.1	1,248.5	23.57	53.972		
5,900.0	5,872.5	5,812.0	5,810.7	14.0	10.3	-107.03	916.5	819.3	1,276.3	1,252.3	23.98	53.229		
6,000.0	5,971.9	5,906.8	5,905.4	14.2	10.5	-107.53	918.2	818.1	1,280.8	1,256.4	24.37	52.550		
6,100.0	6,071.4	6,002.4	6,001.0	14.5	10.7	-108.02	920.1	817.1	1,285.6	1,260.9	24.77	51.910		
6,200.0	6,170.8	6,100.3	6,098.9	14.7	10.8	-108.52	922.3	816.3	1,290.8	1,265.7	25.17	51.293		
6,300.0	6,270.3	6,202.3	6,200.9	15.0	11.0	-109.04	924.5	815.3	1,296.1	1,270.5	25.57	50.682		
6,400.0	6,369.7	6,302.4	6,301.0	15.2	11.2	-109.54	926.5	814.3	1,301.2	1,275.3	25.97	50.100		
6,500.0	6,469.2	6,398.1	6,396.6	15.5	11.4	-110.01	928.5	813.6	1,306.6	1,280.3	26.36	49.563		
6,600.0	6,568.6	6,496.3	6,494.9	15.7	11.5	-110.47	930.6	813.1	1,312.3	1,285.5	26.76	49.043		
6,700.0	6,668.1	6,594.6	6,593.1	16.0	11.7	-110.95	932.9	812.4	1,318.1	1,290.9	27.15	48.545		
6,800.0	6,767.5	6,694.1	6,692.5	16.2	11.9	-94.59	935.3	811.5	1,323.7	1,296.1	27.55	48.054		
6,900.0	6,867.0	6,793.6	6,792.0	16.4	12.1	-25.76	937.6	810.8	1,319.7	1,291.8	27.91	47.283		
7,000.0	6,964.8	6,894.6	6,893.0	16.5	12.2	-7.23	939.9	809.9	1,302.2	1,273.9	28.26	46.084		
7,100.0	7,059.3	6,989.9	6,988.3	16.5	12.4	-0.45	942.0	808.4	1,271.3	1,242.7	28.57	44.505		
7,200.0	7,148.4	7,084.7	7,083.0	16.5	12.6	3.48	944.0	806.7	1,227.6	1,198.8	28.85	42.556		
7,300.0	7,230.4	7,164.4	7,162.7	16.4	12.7	6.69	945.6	805.3	1,172.1	1,143.0	29.07	40.315		
7,400.0	7,303.8	7,236.6	7,234.8	16.4	12.9	10.10	947.3	803.9	1,106.1	1,076.9	29.25	37.813		
7,500.0	7,367.2	7,300.0	7,298.2	16.5	13.0	14.51	948.9	802.6	1,030.9	1,001.5	29.38	35.090		
7,600.0	7,419.2	7,352.9	7,351.1	16.7	13.1	21.06	950.3	801.6	947.9	918.5	29.44	32.198		
7,700.0	7,459.0	7,393.7	7,391.9	17.1	13.1	31.73	951.5	800.8	859.0	829.6	29.42	29.194		
7,800.0	7,485.6	7,423.4	7,421.6	17.6	13.2	49.79	952.4	800.2	766.0	736.7	29.31	26.131		
7,900.0	7,498.6	7,439.6	7,437.8	18.2	13.2	75.31	952.8	799.8	671.1	642.0	29.09	23.073		
8,000.0	7,500.0	7,443.8	7,442.0	19.0	13.2	86.94	953.0	799.8	576.8	548.1	28.73	20.074		
8,100.0	7,500.0	7,446.7	7,444.8	19.9	13.2	87.72	953.0	799.7	484.7	456.4	28.28	17.138		
8,200.0	7,500.0	7,449.5	7,447.6	20.9	13.2	88.50	953.1	799.6	396.4	368.6	27.81	14.255		
8,300.0	7,500.0	7,452.3	7,450.4	22.0	13.3	89.28	953.2	799.6	315.2	287.5	27.69	11.383		
8,400.0	7,500.0	7,455.0	7,453.2	23.2	13.3	90.05	953.3	799.5	248.1	218.9	29.18	8.501		
8,500.0	7,500.0	7,457.8	7,455.9	24.4	13.3	90.82	953.4	799.5	209.1	175.4	33.69	6.205		
8,539.2	7,500.0	7,458.9	7,457.0	24.9	13.3	91.11	953.4	799.5	205.4	169.6	35.82	5.734 CC, ES		
8,600.0	7,500.0	7,460.5	7,458.6	25.7	13.3	91.58	953.4	799.4	214.2	175.8	38.35	5.584 SF		
8,700.0	7,500.0	7,463.2	7,461.4	27.1	13.3	92.33	953.5	799.4	260.8	221.0	39.78	6.555		
8,800.0	7,500.0	7,465.9	7,464.0	28.5	13.3	93.08	953.6	799.3	331.9	292.4	39.44	8.414		
8,900.0	7,500.0	7,468.6	7,466.7	29.9	13.3	93.82	953.6	799.3	415.0	376.3	38.78	10.704		
9,000.0	7,500.0	7,471.2	7,469.3	31.4	13.3	94.56	953.7	799.2	504.3	466.1	38.19	13.206		
9,100.0	7,500.0	7,473.8	7,472.0	32.9	13.3	95.29	953.8	799.2	597.0	559.3	37.74	15.819		
9,200.0	7,500.0	7,476.4	7,474.6	34.4	13.3	96.01	953.9	799.1	691.7	654.3	37.41	18.491		
9,300.0	7,500.0	7,479.0	7,477.2	36.0	13.3	96.72	953.9	799.1	787.8	750.6	37.17	21.194		
9,400.0	7,500.0	7,481.6	7,479.7	37.5	13.3	97.43	954.0	799.0	884.7	847.7	37.00	23.911		
9,500.0	7,500.0	7,484.2	7,482.3	39.1	13.3	98.14	954.1	799.0	982.2	945.3	36.88	26.633		
9,600.0	7,500.0	7,486.7	7,484.8	40.7	13.3	98.83	954.1	798.9	1,080.1	1,043.3	36.80	29.353		
9,700.0	7,500.0	7,489.2	7,487.3	42.3	13.3	99.52	954.2	798.9	1,178.4	1,141.7	36.75	32.067		
9,800.0	7,500.0	7,491.7	7,489.8	43.9	13.3	100.37	954.3	798.8	1,277.0	1,240.2	36.72	34.772		
9,900.0	7,500.0	7,494.2	7,492.3	45.6	13.3	102.17	954.3	798.8	1,375.9	1,339.2	36.72	37.469		

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

Anticollision Report

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

Offset Design												S32-T2N-R68W (File/Hwy 52) - NELSON E UNIT 2 - ENCANA - SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:												100-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Offset Wellbore Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)							
10,000.0	7,500.0	7,496.7	7,494.8	47.2	13.3	102.92	954.4	798.7	1,475.0	1,438.3	36.74	40.144					

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL													Offset Site Error: 0.0 ft	
Survey Program: 926-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	50.13	224.8	269.2	350.8					
100.0	100.0	92.8	92.8	0.1	0.2	50.13	224.7	269.1	350.6	350.3	0.31	1,139.268		
200.0	200.0	193.7	193.7	0.3	0.3	50.13	224.5	268.8	350.2	349.6	0.66	534.314		
300.0	300.0	294.5	294.5	0.5	0.5	50.14	224.1	268.4	349.6	348.6	1.00	348.514		
400.0	400.0	395.4	395.4	0.7	0.7	50.14	223.5	267.7	348.8	347.4	1.35	258.186		
500.0	500.0	496.2	496.2	0.8	0.9	50.15	222.8	266.9	347.7	346.0	1.70	204.696		
600.0	600.0	597.1	597.1	1.0	1.1	-74.44	221.9	265.9	346.1	344.1	2.05	169.117		
700.0	700.0	697.9	697.8	1.2	1.2	-74.88	220.8	264.7	343.8	341.4	2.40	143.450		
800.0	799.9	798.6	798.5	1.4	1.4	-75.62	219.6	263.3	340.9	338.1	2.75	123.854		
900.0	899.7	899.2	899.1	1.6	1.6	-76.66	218.2	261.7	337.3	334.2	3.12	108.255		
1,000.0	999.4	996.1	996.0	1.8	1.8	-78.13	217.7	259.7	333.7	330.2	3.49	95.619		
1,090.2	1,089.2	1,075.4	1,075.2	2.0	1.9	-79.94	219.8	257.5	332.0	328.2	3.83	86.686 CC		
1,100.0	1,098.9	1,083.8	1,083.6	2.0	1.9	-80.15	220.2	257.4	332.1	328.2	3.87	85.869 ES		
1,200.0	1,198.4	1,170.8	1,170.4	2.2	2.0	-82.51	226.0	256.3	334.6	330.3	4.25	78.642		
1,300.0	1,297.8	1,259.2	1,258.4	2.5	2.2	-85.09	235.1	256.1	341.1	336.5	4.65	73.397		
1,400.0	1,397.3	1,350.5	1,348.9	2.7	2.4	-87.82	246.7	256.4	351.0	345.9	5.06	69.362		
1,500.0	1,496.7	1,437.9	1,435.2	2.9	2.6	-90.57	260.5	256.3	363.9	358.4	5.46	66.623		
1,600.0	1,596.1	1,530.7	1,526.4	3.2	2.8	-93.51	277.6	256.1	380.0	374.1	5.88	64.586		
1,700.0	1,695.6	1,617.2	1,611.1	3.4	3.1	-96.27	295.3	255.1	398.6	392.3	6.28	63.452		
1,800.0	1,795.0	1,704.3	1,695.7	3.7	3.4	-99.09	315.9	253.2	420.6	413.9	6.68	62.989		
1,900.0	1,894.5	1,796.4	1,784.8	3.9	3.8	-101.93	339.0	250.6	444.9	437.8	7.08	62.809		
2,000.0	1,993.9	1,879.8	1,865.1	4.2	4.1	-104.37	361.3	247.9	471.6	464.2	7.44	63.368		
2,100.0	2,093.4	1,970.6	1,952.1	4.4	4.5	-106.86	387.1	244.5	500.7	492.8	7.82	63.990		
2,200.0	2,192.8	2,061.0	2,038.4	4.6	5.0	-109.25	413.5	239.7	531.0	522.8	8.20	64.725		
2,300.0	2,292.3	2,139.8	2,113.1	4.9	5.4	-111.35	438.0	233.9	563.7	555.2	8.52	66.165		
2,400.0	2,391.7	2,232.5	2,200.6	5.1	5.9	-113.58	467.8	227.0	598.3	589.4	8.88	67.344		
2,500.0	2,491.2	2,319.0	2,282.4	5.4	6.4	-115.26	495.5	222.6	633.7	624.5	9.21	68.832		
2,600.0	2,590.6	2,415.4	2,373.6	5.6	6.9	-116.92	526.4	217.9	669.6	660.0	9.58	69.873		
2,700.0	2,690.1	2,506.8	2,460.0	5.9	7.4	-118.42	555.5	212.5	705.7	695.8	9.93	71.084		
2,800.0	2,789.5	2,595.7	2,544.1	6.1	7.9	-119.75	584.0	207.0	742.3	732.1	10.26	72.364		
2,900.0	2,889.0	2,680.7	2,624.3	6.4	8.4	-120.94	611.7	201.5	779.9	769.3	10.57	73.794		
3,000.0	2,988.4	2,763.8	2,702.4	6.6	8.9	-121.99	639.6	196.3	818.6	807.8	10.87	75.326		
3,100.0	3,087.9	2,863.6	2,796.2	6.9	9.5	-123.17	672.9	189.7	857.5	846.3	11.25	76.251		
3,200.0	3,187.3	2,960.6	2,887.7	7.2	10.1	-124.21	704.6	183.2	896.0	884.4	11.61	77.192		
3,300.0	3,286.8	3,061.8	2,983.4	7.4	10.7	-125.23	736.7	176.1	933.7	921.7	11.99	77.898		
3,400.0	3,386.2	3,155.8	3,072.5	7.7	11.2	-126.09	766.0	169.7	971.1	958.8	12.33	78.747		
3,500.0	3,485.7	3,257.2	3,168.7	7.9	11.8	-126.93	797.2	163.1	1,008.3	995.6	12.71	79.340		
3,600.0	3,585.1	3,388.6	3,294.4	8.2	12.4	-127.93	834.6	154.7	1,043.4	1,030.2	13.20	79.049		
3,700.0	3,684.6	3,499.0	3,400.8	8.4	13.0	-128.65	863.4	148.9	1,076.2	1,062.6	13.60	79.112		
3,800.0	3,784.0	3,608.5	3,506.8	8.7	13.5	-129.31	890.2	143.5	1,107.4	1,093.4	14.00	79.085		
3,900.0	3,883.5	3,706.4	3,601.9	8.9	13.9	-129.80	913.5	139.7	1,138.1	1,123.7	14.36	79.234		
4,000.0	3,982.9	3,794.5	3,687.3	9.2	14.3	-130.18	934.7	137.1	1,168.9	1,154.3	14.69	79.559		
4,100.0	4,082.4	3,878.4	3,768.6	9.4	14.7	-130.50	955.7	135.2	1,200.6	1,185.6	15.01	79.986		
4,200.0	4,181.8	3,963.6	3,850.8	9.7	15.1	-130.79	977.6	133.5	1,233.1	1,217.7	15.33	80.420		
4,300.0	4,281.3	4,039.3	3,923.8	9.9	15.5	-131.04	997.9	131.9	1,266.5	1,250.9	15.62	81.068		
4,400.0	4,380.7	4,106.6	3,988.3	10.2	15.9	-131.26	1,017.0	129.9	1,301.7	1,285.8	15.88	81.973		
4,500.0	4,480.2	4,177.0	4,055.3	10.4	16.3	-131.47	1,038.5	128.0	1,338.9	1,322.7	16.15	82.918		
4,600.0	4,579.6	4,278.4	4,151.7	10.7	16.9	-131.79	1,069.7	124.7	1,376.5	1,360.0	16.54	83.232		
4,700.0	4,679.1	4,423.4	4,290.4	10.9	17.6	-132.22	1,111.5	120.0	1,412.4	1,395.3	17.09	82.637		
4,800.0	4,778.5	4,559.6	4,422.2	11.2	18.2	-132.51	1,145.7	118.6	1,444.0	1,426.4	17.60	82.029		
4,900.0	4,878.0	4,634.1	4,494.5	11.4	18.6	-132.65	1,164.1	118.0	1,475.5	1,457.6	17.90	82.416		
7,800.0	7,485.6	7,651.0	7,467.4	17.6	27.2	-65.26	1,561.4	25.9	1,456.6	1,424.9	31.69	45.958		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 33-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 926-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
7,900.0	7,498.6	7,663.0	7,479.4	18.2	27.2	-81.46	1,561.5	26.0	1,366.6	1,334.1	32.57	41.960		
8,000.0	7,500.0	7,665.3	7,481.7	19.0	27.2	-88.97	1,561.5	26.0	1,276.6	1,243.1	33.55	38.047		
8,100.0	7,500.0	7,666.3	7,482.7	19.9	27.2	-89.07	1,561.5	26.0	1,188.1	1,153.4	34.70	34.239		
8,200.0	7,500.0	7,667.3	7,483.7	20.9	27.2	-89.17	1,561.5	26.0	1,101.6	1,065.6	36.05	30.556		
8,300.0	7,500.0	7,668.3	7,484.7	22.0	27.2	-89.27	1,561.5	26.0	1,017.6	979.9	37.65	27.026		
8,400.0	7,500.0	7,669.4	7,485.7	23.2	27.2	-89.38	1,561.5	26.0	936.7	897.1	39.55	23.685		
8,500.0	7,500.0	7,670.4	7,486.8	24.4	27.2	-89.48	1,561.6	26.0	859.8	818.0	41.78	20.578		
8,600.0	7,500.0	7,671.4	7,487.8	25.7	27.2	-89.58	1,561.6	26.0	788.1	743.7	44.38	17.757		
8,700.0	7,500.0	7,672.4	7,488.8	27.1	27.2	-89.68	1,561.6	26.0	723.2	675.8	47.33	15.280		
8,800.0	7,500.0	7,673.4	7,489.8	28.5	27.2	-89.78	1,561.6	26.0	667.0	616.4	50.51	13.204		
8,900.0	7,500.0	7,674.4	7,490.8	29.9	27.2	-89.88	1,561.6	26.0	621.9	568.2	53.68	11.584		
9,000.0	7,500.0	7,675.4	7,491.8	31.4	27.2	-89.98	1,561.6	26.0	590.4	534.0	56.44	10.461		
9,100.0	7,500.0	7,676.4	7,492.8	32.9	27.2	-90.08	1,561.6	26.0	574.8	516.5	58.30	9.861		
9,140.7	7,500.0	7,676.8	7,493.2	33.5	27.2	-90.12	1,561.6	26.0	573.4	514.7	58.71	9.767 SF		
9,200.0	7,500.0	7,677.4	7,493.8	34.4	27.2	-90.18	1,561.6	26.0	576.5	517.6	58.90	9.787		
9,300.0	7,500.0	7,678.4	7,494.8	36.0	27.2	-90.28	1,561.6	26.0	595.1	536.9	58.23	10.221		
9,400.0	7,500.0	7,679.5	7,495.9	37.5	27.2	-90.38	1,561.6	26.0	629.3	572.8	56.56	11.126		
9,500.0	7,500.0	7,680.5	7,496.9	39.1	27.2	-90.49	1,561.7	26.0	676.7	622.3	54.35	12.451		
9,600.0	7,500.0	7,681.5	7,497.9	40.7	27.2	-90.59	1,561.7	26.0	734.7	682.7	51.96	14.138		
9,700.0	7,500.0	7,682.5	7,498.9	42.3	27.2	-90.69	1,561.7	26.0	801.0	751.3	49.67	16.126		
9,800.0	7,500.0	7,683.5	7,499.9	43.9	27.2	-90.79	1,561.7	26.0	873.8	826.2	47.60	18.357		
9,900.0	7,500.0	7,684.5	7,500.9	45.6	27.2	-90.87	1,561.7	26.0	950.8	905.0	45.77	20.775		
10,000.0	7,500.0	7,685.5	7,501.9	47.2	27.2	-90.97	1,561.7	26.0	1,031.4	987.2	44.18	23.345		
10,100.0	7,500.0	7,686.5	7,502.9	48.8	27.2	-91.07	1,561.7	26.0	1,115.2	1,072.4	42.84	26.032		
10,200.0	7,500.0	7,687.6	7,503.9	50.5	27.2	-91.17	1,561.7	26.0	1,201.5	1,159.8	41.71	28.802		
10,300.0	7,500.0	7,688.6	7,505.0	52.1	27.2	-91.27	1,561.7	26.0	1,289.7	1,248.9	40.77	31.631		
10,400.0	7,500.0	7,689.6	7,506.0	53.8	27.2	-91.37	1,561.7	26.0	1,379.6	1,339.6	39.99	34.499		
10,500.0	7,500.0	7,690.6	7,507.0	55.5	27.2	-91.47	1,561.8	26.0	1,470.7	1,431.4	39.33	37.391		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL												Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	96.58	-13.4	116.7	117.7				
100.0	100.0	91.3	91.3	0.1	0.1	96.55	-13.4	117.0	117.7	117.4	0.28	413.802	
200.0	200.0	190.8	190.8	0.3	0.3	96.53	-13.5	117.8	118.5	117.9	0.63	188.256	
300.0	300.0	291.0	291.0	0.5	0.5	96.69	-13.9	118.7	119.5	118.5	0.98	122.042	
400.0	400.0	391.2	391.1	0.7	0.7	97.02	-14.7	119.4	120.3	119.0	1.33	90.516	
500.0	500.0	491.3	491.3	0.8	0.8	97.34	-15.5	119.9	120.9	119.3	1.68	72.051	
600.0	600.0	591.4	591.4	1.0	1.0	-27.08	-16.0	120.5	120.7	118.7	2.03	59.541	
700.0	700.0	691.7	691.7	1.2	1.2	-27.49	-16.4	120.8	118.8	116.4	2.38	49.957	
800.0	799.9	791.7	791.7	1.4	1.4	-28.44	-16.5	120.9	115.1	112.4	2.73	42.174	
900.0	899.7	892.0	892.0	1.6	1.5	-29.97	-16.6	120.9	109.7	106.6	3.08	35.582	
1,000.0	999.4	991.9	991.9	1.8	1.7	-32.25	-16.4	120.4	102.5	99.1	3.44	29.793	
1,100.0	1,098.9	1,091.6	1,091.5	2.0	1.9	-35.35	-16.5	119.9	94.0	90.2	3.81	24.682	
1,200.0	1,198.4	1,191.4	1,191.4	2.2	2.1	-39.55	-16.4	119.0	84.8	80.6	4.19	20.245	
1,300.0	1,297.8	1,290.5	1,290.5	2.5	2.2	-44.97	-16.0	117.9	75.9	71.3	4.58	16.581	
1,400.0	1,397.3	1,389.9	1,389.8	2.7	2.4	-51.92	-15.3	116.8	68.1	63.1	4.99	13.644	
1,500.0	1,496.7	1,489.4	1,489.3	2.9	2.6	-60.82	-14.4	115.5	61.3	55.9	5.43	11.296	
1,600.0	1,596.1	1,588.9	1,588.8	3.2	2.7	-71.69	-13.7	113.7	55.9	50.1	5.88	9.510	
1,700.0	1,695.6	1,687.8	1,687.7	3.4	2.9	-84.24	-13.0	111.9	52.8	46.5	6.33	8.343	
1,736.0	1,731.4	1,723.4	1,723.3	3.5	3.0	-88.96	-12.6	111.4	52.6	46.1	6.49	8.108 CC, ES	
1,800.0	1,795.0	1,786.8	1,786.7	3.7	3.1	-97.31	-11.8	110.6	53.3	46.5	6.75	7.891 SF	
1,900.0	1,894.5	1,885.8	1,885.6	3.9	3.3	-109.61	-10.2	109.4	56.8	49.7	7.11	7.987	
2,000.0	1,993.9	1,985.2	1,985.1	4.2	3.4	-120.06	-8.5	108.3	62.8	55.3	7.43	8.445	
2,100.0	2,093.4	2,085.3	2,085.1	4.4	3.6	-128.32	-7.6	107.4	69.6	61.9	7.74	8.996	
2,200.0	2,192.8	2,185.4	2,185.2	4.6	3.8	-134.80	-7.8	107.1	76.4	68.4	8.04	9.504	
2,300.0	2,292.3	2,284.8	2,284.6	4.9	4.0	-140.15	-8.4	106.8	83.7	75.3	8.35	10.027	
2,400.0	2,391.7	2,384.7	2,384.5	5.1	4.1	-144.72	-9.0	106.3	91.6	82.9	8.65	10.585	
2,500.0	2,491.2	2,484.6	2,484.4	5.4	4.3	-148.84	-10.5	105.8	99.2	90.3	8.96	11.080	
2,600.0	2,590.6	2,582.0	2,581.8	5.6	4.5	-153.52	-12.4	102.8	108.0	98.7	9.24	11.689	
2,700.0	2,690.1	2,682.9	2,682.5	5.9	4.7	-158.93	-15.6	97.3	117.9	108.3	9.52	12.375	
2,800.0	2,789.5	2,782.7	2,781.9	6.1	4.9	-164.04	-20.4	91.5	127.5	117.6	9.82	12.981	
2,900.0	2,889.0	2,881.2	2,879.9	6.4	5.1	-169.33	-27.0	84.2	137.7	127.6	10.12	13.603	
3,000.0	2,988.4	2,978.9	2,977.1	6.6	5.2	-174.05	-33.5	76.1	149.7	139.3	10.45	14.324	
3,100.0	3,087.9	3,075.7	3,073.1	6.9	5.5	-178.89	-41.6	66.1	163.1	152.3	10.80	15.101	
3,200.0	3,187.3	3,172.9	3,168.9	7.2	5.7	176.01	-51.6	53.6	178.8	167.7	11.19	15.988	
3,300.0	3,286.8	3,270.3	3,265.1	7.4	5.9	171.88	-61.4	41.4	195.6	184.0	11.59	16.875	
3,400.0	3,386.2	3,364.1	3,357.7	7.7	6.2	168.80	-69.4	29.2	214.0	202.0	11.97	17.873	
3,500.0	3,485.7	3,456.6	3,448.7	7.9	6.4	165.98	-77.7	15.1	235.1	222.7	12.37	19.003	
3,600.0	3,585.1	3,552.7	3,543.0	8.2	6.7	163.11	-87.5	-1.2	257.8	245.0	12.80	20.138	
3,700.0	3,684.6	3,646.1	3,634.3	8.4	7.0	160.61	-97.6	-18.0	281.9	268.7	13.23	21.315	
3,800.0	3,784.0	3,746.6	3,732.2	8.7	7.3	157.92	-110.8	-36.0	305.9	292.2	13.73	22.285	
3,900.0	3,883.5	3,842.2	3,825.1	8.9	7.7	155.39	-125.2	-53.4	330.5	316.3	14.20	23.268	
4,000.0	3,982.9	3,937.6	3,917.8	9.2	8.0	153.01	-140.7	-70.3	355.0	340.3	14.68	24.179	
4,100.0	4,082.4	4,029.2	4,006.4	9.4	8.4	151.04	-155.4	-87.8	381.3	366.2	15.12	25.217	
4,200.0	4,181.8	4,125.8	4,100.1	9.7	8.7	149.38	-169.9	-106.4	408.2	392.6	15.59	26.179	
4,300.0	4,281.3	4,230.9	4,202.3	9.9	9.1	147.88	-185.1	-125.5	434.5	418.3	16.12	26.947	
4,400.0	4,380.7	4,330.6	4,299.8	10.2	9.5	146.77	-198.5	-141.9	459.1	442.5	16.60	27.665	
4,500.0	4,480.2	4,439.0	4,406.1	10.4	9.9	145.78	-212.3	-157.9	482.3	465.2	17.12	28.169	
4,600.0	4,579.6	4,534.9	4,500.3	10.7	10.2	144.96	-224.9	-171.2	504.7	487.1	17.57	28.728	
4,700.0	4,679.1	4,635.4	4,598.8	10.9	10.5	144.12	-238.4	-185.4	527.5	509.5	18.04	29.236	
4,800.0	4,778.5	4,743.2	4,704.9	11.2	10.9	143.46	-251.5	-198.8	548.7	530.1	18.54	29.602	
4,900.0	4,878.0	4,861.5	4,822.1	11.4	11.2	143.11	-262.6	-210.7	567.4	548.4	19.05	29.788	
5,000.0	4,977.4	4,972.7	4,932.8	11.7	11.4	143.11	-270.0	-218.4	583.0	563.5	19.50	29.900	

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 34-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	5,076.9	5,079.3	5,039.1	11.9	11.7	143.29	-275.0	-224.4	597.2	577.2	19.91	29.993		
5,200.0	5,176.3	5,186.3	5,146.0	12.2	11.9	143.66	-278.0	-228.8	609.8	589.5	20.30	30.033		
5,300.0	5,275.8	5,293.1	5,252.7	12.4	12.0	144.19	-279.0	-232.1	621.3	600.6	20.68	30.043		
5,400.0	5,375.2	5,404.1	5,363.7	12.7	12.2	144.84	-278.7	-233.4	631.1	610.0	21.05	29.979		
5,500.0	5,474.7	5,501.6	5,461.2	12.9	12.3	145.50	-277.3	-234.2	640.5	619.1	21.39	29.947		
5,600.0	5,574.1	5,602.8	5,562.4	13.2	12.4	146.23	-275.1	-235.0	649.9	628.2	21.72	29.917		
5,700.0	5,673.6	5,706.3	5,665.8	13.5	12.6	146.92	-273.1	-235.2	659.0	636.9	22.07	29.859		
5,800.0	5,773.0	5,804.2	5,763.7	13.7	12.7	147.53	-271.7	-235.1	667.8	645.4	22.40	29.808		
5,900.0	5,872.5	5,900.4	5,859.9	14.0	12.8	148.12	-270.1	-235.5	677.1	654.4	22.73	29.789		
6,000.0	5,971.9	5,997.1	5,956.6	14.2	13.0	148.68	-268.8	-236.3	686.9	663.9	23.07	29.773		
6,100.0	6,071.4	6,094.3	6,053.8	14.5	13.1	149.13	-268.5	-237.5	697.2	673.8	23.41	29.776		
6,200.0	6,170.8	6,194.1	6,153.6	14.7	13.3	149.61	-268.0	-238.8	707.5	683.8	23.75	29.794		
6,300.0	6,270.3	6,293.6	6,253.1	15.0	13.4	150.14	-266.5	-239.9	717.9	693.8	24.08	29.810		
6,400.0	6,369.7	6,393.1	6,352.5	15.2	13.5	150.64	-265.2	-241.1	728.3	703.9	24.42	29.823		
6,500.0	6,469.2	6,491.9	6,451.3	15.5	13.7	151.10	-264.3	-242.3	738.7	714.0	24.75	29.845		
6,600.0	6,568.6	6,590.3	6,549.7	15.7	13.8	151.58	-262.9	-243.5	749.3	724.2	25.08	29.878		
6,700.0	6,668.1	6,695.3	6,654.7	16.0	14.0	152.13	-260.8	-244.5	759.7	734.3	25.41	29.896		
6,800.0	6,767.5	6,798.6	6,758.0	16.2	14.1	169.70	-258.2	-244.5	769.3	743.5	25.73	29.893		
6,900.0	6,867.0	6,892.3	6,851.7	16.4	14.2	-120.65	-255.6	-244.7	778.0	752.0	25.97	29.955		
7,000.0	6,964.8	6,986.9	6,946.2	16.5	14.4	-102.64	-252.9	-245.6	785.8	759.7	26.15	30.048		
7,100.0	7,059.3	7,082.5	7,041.8	16.5	14.5	-97.72	-249.8	-246.5	792.9	766.6	26.28	30.168		
7,200.0	7,148.4	7,174.8	7,133.9	16.5	14.6	-96.81	-246.7	-247.4	800.3	773.9	26.38	30.341		
7,300.0	7,230.4	7,260.2	7,219.4	16.4	14.8	-97.63	-245.0	-247.9	809.6	783.2	26.44	30.623		
7,400.0	7,303.8	7,339.6	7,298.8	16.4	14.9	-99.15	-244.3	-248.1	823.1	796.6	26.48	31.088		
7,500.0	7,367.2	7,413.4	7,372.5	16.5	15.0	-100.73	-243.3	-247.5	842.4	815.9	26.52	31.769		
7,600.0	7,419.2	7,475.6	7,434.7	16.7	15.0	-101.59	-242.0	-246.5	869.2	842.6	26.57	32.710		
7,700.0	7,459.0	7,517.9	7,477.0	17.1	15.1	-100.84	-241.0	-245.6	904.7	878.1	26.65	33.944		
7,800.0	7,485.6	7,547.4	7,506.5	17.6	15.1	-98.59	-240.2	-245.0	949.3	922.5	26.78	35.454		
7,900.0	7,498.6	7,563.5	7,522.6	18.2	15.1	-94.62	-239.7	-244.7	1,002.0	975.1	26.93	37.205		
8,000.0	7,500.0	7,567.9	7,526.9	19.0	15.2	-92.41	-239.6	-244.6	1,061.5	1,034.4	27.12	39.147		
8,100.0	7,500.0	7,570.9	7,529.9	19.9	15.2	-92.62	-239.5	-244.6	1,126.6	1,099.3	27.33	41.227		
8,200.0	7,500.0	7,573.9	7,533.0	20.9	15.2	-92.83	-239.4	-244.5	1,196.6	1,169.0	27.56	43.417		
8,300.0	7,500.0	7,577.0	7,536.1	22.0	15.2	-93.05	-239.3	-244.5	1,270.6	1,242.8	27.80	45.698		
8,400.0	7,500.0	7,580.2	7,539.2	23.2	15.2	-93.26	-239.2	-244.4	1,347.9	1,319.9	28.05	48.051		
8,500.0	7,500.0	7,583.4	7,542.4	24.4	15.2	-93.48	-239.1	-244.4	1,428.1	1,399.8	28.30	50.461		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		
0.0	0.0	0.0	0.0	0.0	0.0	52.90	212.0	280.3	351.6					
100.0	100.0	91.6	91.6	0.1	0.1	52.96	211.7	280.5	351.4	351.1	0.29	1,205.959		
151.2	151.2	142.2	142.2	0.2	0.2	53.04	211.2	280.7	351.3	350.9	0.46	762.241	CC, ES	
200.0	200.0	186.0	186.0	0.3	0.3	53.10	211.1	281.2	351.7	351.0	0.62	565.089		
300.0	300.0	275.1	275.0	0.5	0.5	53.13	212.5	283.4	354.6	353.6	0.95	372.548		
400.0	400.0	367.4	367.2	0.7	0.6	53.18	215.4	287.8	360.2	359.0	1.29	279.908		
500.0	500.0	457.1	456.6	0.8	0.8	53.32	218.9	294.0	368.1	366.5	1.62	227.606		
600.0	600.0	548.6	547.6	1.0	1.1	-70.89	223.3	302.6	378.3	376.4	1.95	193.837		
700.0	700.0	640.5	638.7	1.2	1.3	-70.77	228.3	313.2	389.9	387.6	2.29	170.243		
800.0	799.9	729.8	727.0	1.4	1.6	-70.72	233.5	325.5	403.1	400.5	2.63	153.177		
900.0	899.7	824.1	819.9	1.6	1.9	-70.62	238.6	341.2	417.7	414.7	3.00	139.171		
1,000.0	999.4	928.7	922.8	1.8	2.3	-70.49	242.5	359.5	431.4	428.0	3.42	126.144		
1,100.0	1,098.9	1,025.9	1,018.3	2.0	2.6	-70.29	244.0	377.3	444.0	440.2	3.85	115.221		
1,200.0	1,198.4	1,111.5	1,101.9	2.2	3.0	-69.98	244.1	395.9	458.2	453.9	4.28	107.030		
1,300.0	1,297.8	1,199.3	1,186.9	2.5	3.4	-69.46	244.1	417.8	475.0	470.3	4.73	100.500		
1,400.0	1,397.3	1,289.7	1,274.0	2.7	3.9	-68.84	244.4	442.3	493.8	488.7	5.19	95.094		
1,500.0	1,496.7	1,386.8	1,367.1	2.9	4.4	-68.14	244.5	469.6	513.5	507.8	5.69	90.216		
1,600.0	1,596.1	1,488.3	1,464.3	3.2	4.9	-67.33	243.5	498.8	533.2	527.0	6.22	85.770		
1,700.0	1,695.6	1,588.2	1,560.3	3.4	5.4	-66.60	242.0	526.5	551.8	545.1	6.72	82.084		
1,800.0	1,795.0	1,680.6	1,649.1	3.7	5.9	-66.09	242.0	552.1	571.3	564.1	7.20	79.365		
1,900.0	1,894.5	1,774.2	1,738.7	3.9	6.4	-65.59	242.3	578.7	591.6	583.9	7.68	77.042		
2,000.0	1,993.9	1,876.4	1,836.6	4.2	6.9	-65.00	242.0	608.4	612.2	604.0	8.21	74.611		
2,100.0	2,093.4	1,981.6	1,937.4	4.4	7.5	-64.32	239.9	638.5	631.6	622.9	8.74	72.299		
2,200.0	2,192.8	2,081.5	2,033.3	4.6	8.0	-63.77	238.1	666.3	650.5	641.2	9.24	70.423		
2,300.0	2,292.3	2,181.8	2,129.7	4.9	8.5	-63.25	236.1	693.8	668.9	659.2	9.75	68.641		
2,400.0	2,391.7	2,282.5	2,226.4	5.1	9.1	-62.65	233.1	721.8	687.4	677.1	10.25	67.077		
2,500.0	2,491.2	2,384.8	2,325.0	5.4	9.6	-62.18	230.6	749.1	705.1	694.3	10.75	65.590		
2,600.0	2,590.6	2,483.8	2,420.4	5.6	10.1	-61.73	228.1	775.3	722.6	711.4	11.24	64.273		
2,700.0	2,690.1	2,587.1	2,520.0	5.9	10.6	-61.31	225.5	802.3	739.9	728.2	11.74	63.047		
2,800.0	2,789.5	2,691.1	2,620.6	6.1	11.1	-60.93	222.8	828.7	756.4	744.2	12.24	61.788		
2,900.0	2,889.0	2,798.6	2,724.8	6.4	11.6	-60.58	220.0	855.0	772.2	759.5	12.75	60.589		
3,000.0	2,988.4	2,910.8	2,834.1	6.6	12.1	-60.33	217.4	880.3	786.4	773.1	13.27	59.271		
3,100.0	3,087.9	3,007.4	2,928.3	6.9	12.5	-60.13	214.8	901.4	799.8	786.0	13.73	58.260		
3,200.0	3,187.3	3,087.4	3,006.2	7.2	12.9	-60.00	213.7	919.6	814.5	800.4	14.13	57.632		
3,300.0	3,286.8	3,177.8	3,093.9	7.4	13.3	-59.87	213.3	941.8	831.3	816.7	14.57	57.059		
3,400.0	3,386.2	3,275.0	3,188.1	7.7	13.7	-59.75	213.2	965.8	848.4	833.4	15.04	56.417		
3,500.0	3,485.7	3,374.3	3,284.2	7.9	14.2	-59.58	212.5	990.6	865.6	850.1	15.51	55.800		
3,600.0	3,585.1	3,486.5	3,392.9	8.2	14.8	-59.29	209.7	1,018.4	881.7	865.7	16.04	54.956		
3,700.0	3,684.6	3,586.6	3,489.9	8.4	15.2	-59.01	206.4	1,042.8	897.3	880.8	16.52	54.313		
3,800.0	3,784.0	3,684.6	3,584.9	8.7	15.7	-58.74	203.1	1,066.6	912.7	895.7	16.97	53.768		
3,900.0	3,883.5	3,777.5	3,675.2	8.9	16.1	-58.63	202.2	1,088.6	928.5	911.1	17.42	53.316		
4,000.0	3,982.9	3,878.4	3,773.1	9.2	16.6	-58.57	202.0	1,112.5	944.7	926.9	17.88	52.829		
4,100.0	4,082.4	3,992.9	3,884.6	9.4	17.1	-58.48	201.1	1,138.6	959.9	941.5	18.42	52.115		
4,200.0	4,181.8	4,085.5	3,974.7	9.7	17.5	-58.31	198.6	1,160.0	974.4	955.5	18.87	51.647		
4,300.0	4,281.3	4,159.0	4,046.0	9.9	17.9	-58.16	196.6	1,178.0	990.4	971.2	19.24	51.489		
4,400.0	4,380.7	4,248.5	4,132.3	10.2	18.3	-57.95	194.5	1,201.4	1,008.1	988.4	19.67	51.259		
4,500.0	4,480.2	4,377.4	4,256.9	10.4	18.9	-57.71	191.9	1,234.3	1,025.3	1,005.1	20.23	50.680		
4,600.0	4,579.6	4,503.6	4,380.2	10.7	19.4	-57.68	191.1	1,261.3	1,039.1	1,018.3	20.78	50.009		
4,700.0	4,679.1	4,612.2	4,486.7	10.9	19.8	-57.74	190.9	1,282.5	1,051.5	1,030.2	21.27	49.429		
4,800.0	4,778.5	4,720.1	4,592.7	11.2	20.2	-57.84	191.3	1,302.5	1,063.1	1,041.3	21.76	48.863		
4,900.0	4,878.0	4,840.5	4,711.4	11.4	20.6	-58.07	193.0	1,322.6	1,073.4	1,051.2	22.28	48.179		
5,000.0	4,977.4	4,970.6	4,840.3	11.7	21.0	-58.39	194.9	1,340.5	1,081.2	1,058.4	22.82	47.373		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 44-32 - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,112.0	4,980.8	11.9	21.3	-58.83	197.0	1,355.5	1,086.1	1,062.8	23.37	46.471		
5,200.0	5,176.3	5,239.4	5,107.9	12.2	21.5	-59.33	198.6	1,364.2	1,087.4	1,063.6	23.88	45.533		
5,300.0	5,275.8	5,358.8	5,227.2	12.4	21.6	-59.83	199.7	1,369.5	1,086.6	1,062.2	24.38	44.562		
5,400.0	5,375.2	5,472.6	5,340.9	12.7	21.8	-60.33	200.4	1,372.9	1,084.3	1,059.4	24.88	43.586		
5,500.0	5,474.7	5,574.9	5,443.2	12.9	21.9	-60.80	200.9	1,375.2	1,081.3	1,056.0	25.36	42.639		
5,600.0	5,574.1	5,677.3	5,545.6	13.2	22.0	-61.29	201.7	1,377.0	1,078.2	1,052.3	25.85	41.713		
5,700.0	5,673.6	5,780.3	5,648.6	13.5	22.1	-61.80	202.5	1,378.5	1,074.8	1,048.5	26.34	40.809		
5,800.0	5,773.0	5,887.0	5,755.3	13.7	22.2	-62.34	203.4	1,379.5	1,071.1	1,044.3	26.83	39.922		
5,900.0	5,872.5	5,992.0	5,860.3	14.0	22.2	-62.90	204.1	1,379.6	1,066.7	1,039.3	27.32	39.037		
6,000.0	5,971.9	6,090.9	5,959.1	14.2	22.3	-63.43	204.8	1,379.4	1,062.1	1,034.3	27.82	38.179		
6,100.0	6,071.4	6,187.2	6,055.4	14.5	22.4	-63.97	205.8	1,379.5	1,057.9	1,029.6	28.31	37.367		
6,200.0	6,170.8	6,286.1	6,154.4	14.7	22.5	-64.53	206.9	1,379.6	1,054.0	1,025.2	28.81	36.589		
6,300.0	6,270.3	6,385.9	6,254.1	15.0	22.6	-65.11	208.3	1,379.6	1,050.3	1,021.0	29.30	35.841		
6,400.0	6,369.7	6,486.6	6,354.9	15.2	22.6	-65.72	210.0	1,379.3	1,046.5	1,016.7	29.80	35.115		
6,500.0	6,469.2	6,584.7	6,452.9	15.5	22.7	-66.33	211.8	1,378.9	1,042.8	1,012.5	30.30	34.420		
6,600.0	6,568.6	6,681.7	6,549.9	15.7	22.8	-66.93	213.6	1,378.7	1,039.5	1,008.7	30.81	33.739		
6,700.0	6,668.1	6,781.8	6,650.0	16.0	22.9	-67.56	215.5	1,378.5	1,036.3	1,005.0	31.32	33.091		
6,800.0	6,767.5	6,883.7	6,751.9	16.2	23.0	-68.17	217.5	1,378.3	1,033.0	1,001.2	31.81	32.473		
6,900.0	6,867.0	6,988.3	6,856.4	16.4	23.1	-68.79	218.5	1,377.9	1,029.6	997.5	32.30	31.855		
7,000.0	6,966.4	7,083.3	6,951.5	16.5	23.2	-69.42	219.5	1,377.6	1,026.3	994.0	32.78	31.237		
7,100.0	7,065.9	7,183.1	7,043.3	16.5	23.2	-70.05	220.5	1,377.5	982.9	991.2	33.25	30.619		
7,200.0	7,165.4	7,282.6	7,143.3	16.5	23.3	-70.68	222.1	1,377.4	953.6	922.5	33.72	29.999		
7,300.0	7,264.9	7,382.1	7,242.8	16.4	23.4	-71.31	223.6	1,377.0	920.0	889.8	34.18	29.379		
7,400.0	7,364.4	7,481.6	7,342.3	16.4	23.5	-71.94	225.0	1,376.4	884.6	855.4	34.63	28.759		
7,500.0	7,463.9	7,581.1	7,441.8	16.5	23.5	-72.57	226.0	1,376.0	850.4	822.4	35.08	28.139		
7,600.0	7,563.4	7,680.6	7,541.3	16.7	23.6	-73.20	226.9	1,375.7	820.9	793.7	35.52	27.519		
7,700.0	7,662.9	7,779.1	7,640.8	17.1	23.6	-73.83	227.5	1,375.5	799.4	772.6	35.95	26.899		
7,800.0	7,762.4	7,878.6	7,742.3	17.6	23.6	-74.46	227.9	1,375.4	789.1	761.7	36.37	26.279		
7,829.9	7,791.9	7,902.1	7,771.8	17.7	23.6	-75.09	228.0	1,375.4	788.5	760.7	36.78	25.659		
7,900.0	7,891.4	8,001.6	7,861.3	18.2	23.7	-75.72	228.1	1,375.4	791.8	763.0	37.19	25.039		
8,000.0	7,990.9	8,101.1	7,960.8	19.0	23.7	-76.35	228.1	1,375.4	808.1	777.0	37.60	24.419		
8,100.0	8,090.4	8,201.2	8,060.3	19.9	23.7	-76.98	228.1	1,375.4	836.2	802.5	38.01	23.799		
8,200.0	8,189.9	8,301.3	8,159.8	20.9	23.7	-77.61	228.2	1,375.4	874.9	838.5	38.42	23.179		
8,300.0	8,289.4	8,401.4	8,259.3	22.0	23.7	-78.24	228.2	1,375.4	922.8	884.0	38.83	22.559		
8,400.0	8,388.9	8,501.5	8,358.8	23.2	23.7	-78.87	228.2	1,375.3	978.7	937.7	39.24	21.939		
8,500.0	8,488.4	8,601.6	8,458.3	24.4	23.7	-79.50	228.2	1,375.3	1,041.1	998.3	39.65	21.319		
8,600.0	8,587.9	8,701.7	8,557.8	25.7	23.7	-80.13	228.2	1,375.3	1,109.1	1,064.6	40.06	20.699		
8,700.0	8,687.4	8,801.8	8,657.9	27.1	23.7	-80.76	228.3	1,375.3	1,181.7	1,135.9	40.47	20.079		
8,800.0	8,786.9	8,901.9	8,758.0	28.5	23.7	-81.39	228.3	1,375.3	1,258.0	1,211.1	40.88	19.459		
8,900.0	8,886.4	9,002.0	8,856.5	29.9	23.7	-82.02	228.3	1,375.3	1,337.4	1,289.6	41.29	18.839		
9,000.0	8,985.9	9,102.1	8,956.0	31.4	23.7	-82.65	228.3	1,375.3	1,419.4	1,370.8	41.70	18.219		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-4-32 - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 60-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
9,200.0	7,500.0	7,517.3	7,467.0	34.4	19.1	-89.84	2,013.7	-831.3	1,485.5	1,432.6	52.89	28.086	
9,300.0	7,500.0	7,518.1	7,467.8	36.0	19.1	-89.87	2,013.7	-831.3	1,462.8	1,408.7	54.04	27.066	
9,400.0	7,500.0	7,518.8	7,468.6	37.5	19.1	-89.90	2,013.7	-831.3	1,446.6	1,391.5	55.07	26.269	
9,500.0	7,500.0	7,519.6	7,469.4	39.1	19.1	-89.94	2,013.7	-831.3	1,437.2	1,381.3	55.94	25.693	
9,585.3	7,500.0	7,520.3	7,470.0	40.5	19.1	-89.96	2,013.7	-831.3	1,434.7	1,378.1	56.55	25.372 CC	
9,600.0	7,500.0	7,520.4	7,470.1	40.7	19.1	-89.97	2,013.7	-831.3	1,434.7	1,378.1	56.64	25.333 ES	
9,700.0	7,500.0	7,521.1	7,470.9	42.3	19.1	-90.00	2,013.7	-831.3	1,439.2	1,382.1	57.15	25.183 SF	
9,800.0	7,500.0	7,521.9	7,471.6	43.9	19.1	-90.03	2,013.7	-831.3	1,450.6	1,393.1	57.49	25.234	
9,900.0	7,500.0	7,522.6	7,472.4	45.6	19.1	-90.05	2,013.8	-831.3	1,467.7	1,410.0	57.65	25.458	
10,000.0	7,500.0	7,523.3	7,473.1	47.2	19.1	-90.08	2,013.8	-831.3	1,490.6	1,433.0	57.65	25.857	

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-6-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 60-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
7,800.0	7,485.6	7,494.5	7,443.7	17.6	18.8	-85.61	733.4	-809.4	1,488.3	1,458.0	30.31	49.111		
7,900.0	7,498.6	7,508.1	7,457.2	18.2	18.8	-88.50	733.8	-809.4	1,459.0	1,427.6	31.41	46.456		
8,000.0	7,500.0	7,511.7	7,460.8	19.0	18.8	-89.58	733.9	-809.4	1,434.5	1,401.9	32.57	44.048		
8,100.0	7,500.0	7,514.1	7,463.2	19.9	18.8	-89.68	734.0	-809.4	1,416.6	1,382.8	33.77	41.944		
8,200.0	7,500.0	7,516.5	7,465.6	20.9	18.8	-89.78	734.0	-809.4	1,405.5	1,370.5	35.00	40.164		
8,300.0	7,500.0	7,519.0	7,468.1	22.0	18.8	-89.88	734.1	-809.4	1,401.6	1,365.4	36.20	38.713		
8,305.9	7,500.0	7,519.1	7,468.3	22.1	18.8	-89.89	734.1	-809.4	1,401.5	1,365.3	36.28	38.636 CC, ES		
8,400.0	7,500.0	7,521.5	7,470.6	23.2	18.8	-89.98	734.2	-809.4	1,404.7	1,367.3	37.37	37.591		
8,500.0	7,500.0	7,524.0	7,473.1	24.4	18.8	-90.09	734.2	-809.4	1,414.9	1,376.4	38.46	36.785		
8,600.0	7,500.0	7,526.6	7,475.7	25.7	18.8	-90.19	734.3	-809.4	1,432.0	1,392.6	39.47	36.282		
8,700.0	7,500.0	7,529.1	7,478.3	27.1	18.8	-90.30	734.4	-809.4	1,455.9	1,415.5	40.37	36.059 SF		
8,800.0	7,500.0	7,531.7	7,480.9	28.5	18.8	-90.40	734.5	-809.4	1,486.0	1,444.9	41.17	36.097		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	39.06	953.0	773.3	1,227.9					
100.0	100.0	61.0	61.0	0.1	0.1	39.06	953.0	773.3	1,227.3	1,227.0	0.26	4,812.725		
200.0	200.0	161.0	161.0	0.3	0.3	39.06	953.0	773.3	1,227.3	1,226.7	0.60	2,031.738		
300.0	300.0	261.0	261.0	0.5	0.5	39.06	953.0	773.3	1,227.3	1,226.3	0.95	1,287.670		
400.0	400.0	361.0	361.0	0.7	0.6	39.06	953.0	773.3	1,227.3	1,226.0	1.30	942.504		
500.0	500.0	461.0	461.0	0.8	0.8	39.06	953.0	773.3	1,227.3	1,225.6	1.65	743.268		
600.0	600.0	561.0	561.0	1.0	1.0	-85.42	953.0	773.3	1,227.2	1,225.2	2.00	613.395		
700.0	700.0	661.0	661.0	1.2	1.2	-85.55	953.0	773.3	1,227.0	1,224.6	2.35	521.533		
800.0	799.9	760.9	760.9	1.4	1.3	-85.75	953.0	773.3	1,226.7	1,223.9	2.71	452.618		
900.0	899.7	868.5	868.5	1.6	1.6	-86.07	952.9	773.3	1,226.2	1,223.0	3.14	390.345		
1,000.0	999.4	1,041.0	1,040.9	1.8	2.6	-86.79	948.6	768.7	1,222.1	1,218.1	3.95	309.600		
1,100.0	1,098.9	1,211.5	1,210.5	2.0	3.7	-87.78	937.3	756.8	1,212.0	1,207.5	4.58	264.351		
1,200.0	1,198.4	1,378.8	1,375.8	2.2	4.8	-88.84	919.5	738.0	1,196.4	1,191.2	5.13	233.373		
1,300.0	1,297.8	1,542.1	1,535.4	2.5	5.9	-90.01	895.8	712.9	1,175.3	1,169.7	5.61	209.661		
1,400.0	1,397.3	1,700.5	1,688.1	2.7	6.9	-91.30	866.8	682.3	1,149.1	1,143.1	6.05	190.090		
1,500.0	1,496.7	1,853.4	1,833.0	2.9	8.0	-92.74	833.4	647.0	1,118.2	1,111.7	6.46	173.000		
1,600.0	1,596.1	2,000.1	1,969.5	3.2	9.0	-94.34	796.4	607.9	1,082.7	1,075.8	6.88	157.429		
1,700.0	1,695.6	2,095.4	2,057.0	3.4	9.7	-95.51	770.6	580.6	1,045.0	1,037.6	7.40	141.201		
1,800.0	1,795.0	2,185.9	2,140.1	3.7	10.3	-96.70	746.0	554.6	1,007.6	999.6	7.96	126.586		
1,900.0	1,894.5	2,276.4	2,223.3	3.9	11.0	-97.98	721.4	528.6	970.6	962.0	8.55	113.529		
2,000.0	1,993.9	2,366.9	2,306.4	4.2	11.7	-99.36	696.9	502.7	934.1	924.9	9.17	101.817		
2,100.0	2,093.4	2,457.4	2,389.6	4.4	12.3	-100.83	672.3	476.7	898.1	888.3	9.84	91.282		
2,200.0	2,192.8	2,547.9	2,472.7	4.6	13.0	-102.43	647.8	450.8	862.8	852.2	10.55	81.787		
2,300.0	2,292.3	2,638.4	2,555.8	4.9	13.6	-104.15	623.2	424.8	828.1	816.8	11.31	73.222		
2,400.0	2,391.7	2,728.8	2,639.0	5.1	14.3	-106.00	598.6	398.9	794.2	782.0	12.13	65.495		
2,500.0	2,491.2	2,819.3	2,722.1	5.4	15.0	-108.01	574.1	372.9	761.1	748.1	13.00	58.531		
2,600.0	2,590.6	2,909.8	2,805.3	5.6	15.6	-110.18	549.5	346.9	729.0	715.1	13.95	52.266		
2,700.0	2,690.1	3,000.3	2,888.4	5.9	16.3	-112.53	524.9	321.0	698.1	683.1	14.97	46.645		
2,800.0	2,789.5	3,090.8	2,971.5	6.1	17.0	-115.06	500.4	295.0	668.4	652.4	16.06	41.622		
2,900.0	2,889.0	3,181.3	3,054.7	6.4	17.6	-117.81	475.8	269.1	640.2	623.0	17.23	37.154		
3,000.0	2,988.4	3,271.8	3,137.8	6.6	18.3	-120.77	451.2	243.1	613.7	595.2	18.48	33.204		
3,100.0	3,087.9	3,362.3	3,221.0	6.9	19.0	-123.95	426.7	217.2	589.0	569.2	19.81	29.738		
3,200.0	3,187.3	3,452.8	3,304.1	7.2	19.6	-127.36	402.1	191.2	566.4	545.2	21.20	26.722		
3,300.0	3,286.8	3,543.3	3,387.2	7.4	20.3	-131.00	377.5	165.3	546.3	523.6	22.64	24.128		
3,400.0	3,386.2	3,633.8	3,470.4	7.7	21.0	-134.87	353.0	139.3	528.8	504.6	24.12	21.925		
3,500.0	3,485.7	3,724.3	3,553.5	7.9	21.6	-138.93	328.4	113.3	514.2	488.6	25.60	20.086		
3,600.0	3,585.1	3,814.8	3,636.7	8.2	22.3	-143.17	303.9	87.4	502.8	475.8	27.06	18.584		
3,700.0	3,684.6	3,905.3	3,719.8	8.4	23.0	-147.54	279.3	61.4	494.8	466.4	28.46	17.390		
3,800.0	3,784.0	3,995.8	3,802.9	8.7	23.6	-152.00	254.7	35.5	490.4	460.7	29.76	16.479		
3,869.6	3,853.3	4,058.8	3,860.8	8.8	24.1	-155.14	237.6	17.4	489.5	458.9	30.60	15.996 CC		
3,900.0	3,883.5	4,086.3	3,886.1	8.9	24.3	-156.51	230.2	9.5	489.7	458.8	30.95	15.823 ES		
4,000.0	3,982.9	4,176.8	3,969.2	9.2	25.0	-160.99	205.6	-16.4	492.7	460.7	32.00	15.396		
4,100.0	4,082.4	4,267.3	4,052.4	9.4	25.6	-165.41	181.0	-42.4	499.3	466.4	32.90	15.174		
4,200.0	4,181.8	4,357.8	4,135.5	9.7	26.3	-169.71	156.5	-68.4	509.3	475.7	33.66	15.132 SF		
4,300.0	4,281.3	4,448.3	4,218.6	9.9	27.0	-173.84	131.9	-94.3	522.7	488.4	34.28	15.247		
4,400.0	4,380.7	4,538.8	4,301.8	10.2	27.6	-177.78	107.3	-120.3	539.1	504.3	34.78	15.498		
4,500.0	4,480.2	4,629.3	4,384.9	10.4	28.3	-178.49	82.8	-146.2	558.2	523.0	35.19	15.864		
4,600.0	4,579.6	4,719.8	4,468.1	10.7	29.0	-174.98	58.2	-172.2	579.9	544.3	35.51	16.329		
4,700.0	4,679.1	4,810.2	4,551.2	10.9	29.6	-171.71	33.6	-198.1	603.7	568.0	35.78	16.875		
4,800.0	4,778.5	4,900.7	4,634.4	11.2	30.3	-168.66	9.1	-224.1	629.6	593.6	36.00	17.490		
4,900.0	4,878.0	4,991.2	4,717.5	11.4	31.0	-165.84	-15.5	-250.0	657.2	621.0	36.19	18.161		
5,000.0	4,977.4	5,081.7	4,800.6	11.7	31.6	-163.22	-40.0	-276.0	686.3	649.9	36.35	18.877		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 4-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,172.2	4,883.8	11.9	32.3	160.80	-64.6	-302.0	716.8	680.2	36.51	19.630		
5,200.0	5,176.3	5,262.7	4,966.9	12.2	33.0	158.56	-89.2	-327.9	748.4	711.7	36.67	20.410		
5,300.0	5,275.8	5,353.2	5,050.1	12.4	33.6	156.49	-113.7	-353.9	781.1	744.3	36.82	21.212		
5,400.0	5,375.2	5,443.7	5,133.2	12.7	34.3	154.58	-138.3	-379.8	814.7	777.7	36.98	22.030		
5,500.0	5,474.7	5,534.2	5,216.3	12.9	35.0	152.81	-162.9	-405.8	849.1	811.9	37.15	22.858		
5,600.0	5,574.1	5,624.7	5,299.5	13.2	35.6	151.17	-187.4	-431.7	884.2	846.9	37.32	23.693		
5,700.0	5,673.6	5,715.2	5,382.6	13.5	36.3	149.64	-212.0	-457.7	919.9	882.4	37.50	24.530		
5,800.0	5,773.0	5,805.7	5,465.8	13.7	37.0	148.23	-236.6	-483.7	956.2	918.5	37.69	25.368		
5,900.0	5,872.5	5,896.2	5,548.9	14.0	37.6	146.91	-261.1	-509.6	993.0	955.1	37.90	26.203		
6,000.0	5,971.9	5,986.7	5,632.0	14.2	38.3	145.69	-285.7	-535.6	1,030.2	992.1	38.11	27.033		
6,100.0	6,071.4	6,077.2	5,715.2	14.5	39.0	144.54	-310.3	-561.5	1,067.9	1,029.5	38.33	27.857		
6,200.0	6,170.8	6,167.7	5,798.3	14.7	39.6	143.48	-334.8	-587.5	1,105.8	1,067.3	38.57	28.674		
6,300.0	6,270.3	6,258.2	5,881.5	15.0	40.3	142.47	-359.4	-613.4	1,144.1	1,105.3	38.81	29.481		
6,400.0	6,369.7	6,354.9	5,970.3	15.2	40.9	141.48	-385.6	-641.1	1,182.7	1,143.7	39.04	30.296		
6,500.0	6,469.2	6,491.9	6,097.7	15.5	40.9	140.30	-420.1	-677.6	1,219.4	1,180.2	39.18	31.120		
6,600.0	6,568.6	6,634.2	6,232.5	15.7	41.0	139.37	-451.5	-710.8	1,252.6	1,213.2	39.40	31.792		
6,700.0	6,668.1	6,781.4	6,374.1	16.0	41.1	138.69	-479.1	-739.9	1,282.2	1,242.5	39.68	32.314		
6,800.0	6,767.5	6,932.9	6,521.8	16.2	41.2	155.52	-502.2	-764.3	1,307.8	1,267.8	39.99	32.701		
6,900.0	6,867.0	7,086.5	6,673.2	16.4	41.2	-134.39	-520.1	-783.3	1,330.6	1,290.5	40.05	33.220		
7,000.0	6,964.8	7,240.3	6,825.9	16.5	41.3	-115.81	-532.5	-796.3	1,351.0	1,311.2	39.78	33.958		
7,100.0	7,059.3	7,392.6	6,977.9	16.5	41.4	-110.12	-539.1	-803.4	1,369.5	1,330.2	39.20	34.931		
7,200.0	7,148.4	7,524.1	7,109.4	16.5	41.5	-107.99	-540.5	-804.8	1,386.9	1,348.6	38.34	36.176		
7,300.0	7,230.4	7,606.1	7,191.4	16.4	41.5	-106.46	-540.5	-804.8	1,407.0	1,369.8	37.21	37.807		
7,400.0	7,303.8	7,679.5	7,264.8	16.4	41.6	-105.32	-540.5	-804.8	1,431.5	1,395.6	35.91	39.867		
7,500.0	7,367.2	7,742.9	7,328.2	16.5	41.6	-104.08	-540.5	-804.8	1,461.2	1,426.7	34.49	42.363		
7,600.0	7,419.2	7,794.9	7,380.2	16.7	41.6	-102.37	-540.5	-804.8	1,496.4	1,463.4	33.06	45.267		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	39.46	953.0	784.5	1,235.0					
100.0	100.0	61.0	61.0	0.1	0.1	39.46	953.0	784.5	1,234.4	1,234.1	0.26	4,840.524		
200.0	200.0	161.0	161.0	0.3	0.3	39.46	953.0	784.5	1,234.4	1,233.7	0.60	2,043.474		
300.0	300.0	261.0	261.0	0.5	0.5	39.46	953.0	784.5	1,234.4	1,233.4	0.95	1,295.108		
400.0	400.0	361.0	361.0	0.7	0.6	39.46	953.0	784.5	1,234.4	1,233.1	1.30	947.948		
500.0	500.0	461.0	461.0	0.8	0.8	39.46	953.0	784.5	1,234.4	1,232.7	1.65	747.561		
600.0	600.0	561.0	561.0	1.0	1.0	-85.02	953.0	784.5	1,234.3	1,232.3	2.00	616.935		
700.0	700.0	661.0	661.0	1.2	1.2	-85.14	953.0	784.5	1,234.1	1,231.7	2.35	524.537		
800.0	799.9	760.9	760.9	1.4	1.3	-85.35	953.0	784.5	1,233.7	1,231.0	2.71	455.215		
900.0	899.7	866.1	866.1	1.6	1.5	-85.65	952.9	784.5	1,233.2	1,230.1	3.10	397.785		
1,000.0	999.4	1,017.1	1,017.0	1.8	2.1	-86.10	948.1	784.4	1,230.1	1,226.4	3.70	332.218		
1,100.0	1,098.9	1,167.8	1,167.2	2.0	2.7	-86.48	935.4	784.3	1,222.7	1,218.4	4.32	283.063		
1,200.0	1,198.4	1,317.6	1,315.5	2.2	3.3	-86.63	914.9	784.0	1,211.2	1,206.3	4.94	245.264		
1,300.0	1,297.8	1,465.7	1,461.0	2.5	3.9	-86.56	887.1	783.6	1,195.6	1,190.1	5.56	215.215		
1,400.0	1,397.3	1,611.5	1,602.6	2.7	4.5	-86.26	852.4	783.2	1,176.0	1,169.8	6.17	190.655		
1,500.0	1,496.7	1,710.2	1,697.8	2.9	5.0	-85.97	826.3	782.9	1,154.4	1,147.6	6.73	171.604		
1,600.0	1,596.1	1,807.7	1,791.8	3.2	5.5	-85.66	800.6	782.5	1,132.7	1,125.4	7.29	155.362		
1,700.0	1,695.6	1,905.1	1,885.8	3.4	5.9	-85.35	774.9	782.2	1,111.1	1,103.3	7.86	141.342		
1,800.0	1,795.0	2,002.6	1,979.8	3.7	6.4	-85.02	749.1	781.9	1,089.6	1,081.1	8.44	129.130		
1,900.0	1,894.5	2,100.1	2,073.8	3.9	6.9	-84.68	723.4	781.5	1,068.1	1,059.0	9.02	118.409		
2,000.0	1,993.9	2,197.5	2,167.8	4.2	7.4	-84.33	697.7	781.2	1,046.6	1,037.0	9.61	108.928		
2,100.0	2,093.4	2,295.0	2,261.8	4.4	7.8	-83.96	671.9	780.9	1,025.1	1,014.9	10.20	100.488		
2,200.0	2,192.8	2,392.4	2,355.8	4.6	8.3	-83.58	646.2	780.5	1,003.7	992.9	10.80	92.932		
2,300.0	2,292.3	2,489.9	2,449.8	4.9	8.8	-83.18	620.5	780.2	982.4	971.0	11.41	86.132		
2,400.0	2,391.7	2,587.3	2,543.8	5.1	9.3	-82.76	594.7	779.9	961.1	949.0	12.02	79.981		
2,500.0	2,491.2	2,684.8	2,637.8	5.4	9.7	-82.32	569.0	779.5	939.8	927.2	12.63	74.394		
2,600.0	2,590.6	2,782.2	2,731.8	5.6	10.2	-81.86	543.3	779.2	918.6	905.3	13.26	69.298		
2,700.0	2,690.1	2,879.7	2,825.8	5.9	10.7	-81.38	517.5	778.9	897.5	883.6	13.89	64.634		
2,800.0	2,789.5	2,977.2	2,919.7	6.1	11.2	-80.88	491.8	778.6	876.4	861.9	14.52	60.351		
2,900.0	2,889.0	3,074.6	3,013.7	6.4	11.7	-80.36	466.1	778.2	855.4	840.2	15.16	56.406		
3,000.0	2,988.4	3,172.1	3,107.7	6.6	12.1	-79.80	440.4	777.9	834.4	818.6	15.81	52.762		
3,100.0	3,087.9	3,269.5	3,201.7	6.9	12.6	-79.22	414.6	777.6	813.6	797.1	16.47	49.388		
3,200.0	3,187.3	3,367.0	3,295.7	7.2	13.1	-78.61	388.9	777.2	792.8	775.6	17.14	46.256		
3,300.0	3,286.8	3,464.4	3,389.7	7.4	13.6	-77.97	363.2	776.9	772.1	754.3	17.81	43.343		
3,400.0	3,386.2	3,561.9	3,483.7	7.7	14.0	-77.29	337.4	776.6	751.5	733.0	18.50	40.629		
3,500.0	3,485.7	3,659.3	3,577.7	7.9	14.5	-76.57	311.7	776.2	731.0	711.8	19.19	38.095		
3,600.0	3,585.1	3,756.8	3,671.7	8.2	15.0	-75.81	286.0	775.9	710.7	690.8	19.89	35.727		
3,700.0	3,684.6	3,854.3	3,765.7	8.4	15.5	-75.01	260.2	775.6	690.4	669.8	20.60	33.509		
3,800.0	3,784.0	3,951.7	3,859.7	8.7	15.9	-74.16	234.5	775.2	670.3	649.0	21.33	31.431		
3,900.0	3,883.5	4,049.2	3,953.7	8.9	16.4	-73.26	208.8	774.9	650.4	628.3	22.06	29.481		
4,000.0	3,982.9	4,146.6	4,047.7	9.2	16.9	-72.30	183.1	774.6	630.6	607.8	22.81	27.651		
4,100.0	4,082.4	4,244.1	4,141.7	9.4	17.4	-71.29	157.3	774.2	611.0	587.5	23.56	25.931		
4,200.0	4,181.8	4,341.5	4,235.7	9.7	17.8	-70.20	131.6	773.9	591.6	567.3	24.33	24.314		
4,300.0	4,281.3	4,439.0	4,329.7	9.9	18.3	-69.05	105.9	773.6	572.5	547.3	25.11	22.795		
4,400.0	4,380.7	4,536.4	4,423.7	10.2	18.8	-67.81	80.1	773.2	553.5	527.6	25.91	21.367		
4,500.0	4,480.2	4,633.9	4,517.7	10.4	19.3	-66.49	54.4	772.9	534.9	508.2	26.71	20.025		
4,600.0	4,579.6	4,731.3	4,611.7	10.7	19.8	-65.08	28.7	772.6	516.5	489.0	27.53	18.765		
4,700.0	4,679.1	4,828.8	4,705.7	10.9	20.2	-63.56	2.9	772.3	498.5	470.1	28.35	17.582		
4,800.0	4,778.5	4,926.3	4,799.7	11.2	20.7	-61.94	-22.8	771.9	480.8	451.6	29.18	16.475		
4,900.0	4,878.0	5,023.7	4,893.7	11.4	21.2	-60.19	-48.5	771.6	463.6	433.5	30.02	15.439		
5,000.0	4,977.4	5,121.2	4,987.7	11.7	21.7	-58.32	-74.2	771.3	446.8	415.9	30.87	14.473		
5,100.0	5,076.9	5,218.6	5,081.7	11.9	22.1	-56.30	-100.0	770.9	430.5	398.8	31.71	13.575		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 6-8-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,316.1	5,175.7	12.2	22.6	-54.14	-125.7	770.6	414.8	382.2	32.55	12.743		
5,300.0	5,275.8	5,413.5	5,269.7	12.4	23.1	-51.81	-151.4	770.3	399.7	366.3	33.37	11.977		
5,400.0	5,375.2	5,511.0	5,363.7	12.7	23.6	-49.31	-177.2	769.9	385.3	351.2	34.18	11.275		
5,500.0	5,474.7	5,608.4	5,457.7	12.9	24.0	-46.62	-202.9	769.6	371.8	336.8	34.95	10.638		
5,600.0	5,574.1	5,705.9	5,551.7	13.2	24.5	-43.75	-228.6	769.3	359.1	323.4	35.68	10.065		
5,700.0	5,673.6	5,803.4	5,645.7	13.5	25.0	-40.69	-254.4	768.9	347.4	311.1	36.36	9.556		
5,800.0	5,773.0	5,900.8	5,739.7	13.7	25.5	-37.43	-280.1	768.6	336.9	299.9	36.96	9.114		
5,900.0	5,872.5	5,998.3	5,833.7	14.0	25.9	-33.97	-305.8	768.3	327.5	290.0	37.48	8.737		
6,000.0	5,971.9	6,095.7	5,927.7	14.2	26.4	-30.34	-331.5	767.9	319.4	281.5	37.90	8.427		
6,100.0	6,071.4	6,193.2	6,021.6	14.5	26.9	-26.54	-357.3	767.6	312.7	274.5	38.20	8.184		
6,200.0	6,170.8	6,290.6	6,115.6	14.7	27.4	-22.60	-383.0	767.3	307.4	269.1	38.39	8.010		
6,300.0	6,270.3	6,388.1	6,209.6	15.0	27.9	-18.56	-408.7	766.9	303.8	265.4	38.44	7.903		
6,400.0	6,369.7	6,485.5	6,303.6	15.2	28.3	-14.44	-434.5	766.6	301.8	263.4	38.38	7.864 SF		
6,471.3	6,440.7	6,555.1	6,370.7	15.4	28.7	-11.48	-452.8	766.4	301.4	263.1	38.26	7.877		
6,500.0	6,469.2	6,584.1	6,398.7	15.5	28.7	-10.26	-460.4	766.3	301.4	263.3	38.11	7.908		
6,600.0	6,568.6	6,686.8	6,498.5	15.7	28.8	-6.35	-484.8	766.0	301.5	263.9	37.59	8.020		
6,700.0	6,668.1	6,790.8	6,600.3	16.0	28.9	-3.01	-505.9	765.7	301.0	263.8	37.16	8.100		
6,800.0	6,767.5	6,895.7	6,703.7	16.2	28.9	16.69	-523.4	765.5	299.7	262.8	36.82	8.139 ES		
6,806.8	6,774.3	6,902.8	6,710.8	16.2	28.9	22.76	-524.4	765.5	299.6	262.8	36.79	8.144 CC		
6,900.0	6,867.0	7,000.1	6,807.2	16.4	29.0	89.44	-537.0	765.3	302.7	266.4	36.27	8.346		
7,000.0	6,964.8	7,102.9	6,909.6	16.5	29.1	112.39	-546.8	765.2	313.8	278.3	35.46	8.850		
7,100.0	7,059.3	7,203.4	7,009.8	16.5	29.2	123.52	-552.7	765.1	334.5	300.0	34.55	9.681		
7,200.0	7,148.4	7,300.6	7,107.0	16.5	29.2	131.13	-555.2	765.1	366.1	332.4	33.71	10.862		
7,300.0	7,230.4	7,385.0	7,191.4	16.4	29.3	136.28	-555.3	765.1	409.6	376.6	33.03	12.402		
7,400.0	7,303.8	7,458.4	7,264.8	16.4	29.4	139.57	-555.3	765.1	466.2	433.7	32.54	14.328		
7,500.0	7,367.2	7,521.7	7,328.2	16.5	29.4	141.11	-555.3	765.1	534.7	502.5	32.24	16.585		
7,600.0	7,419.2	7,573.8	7,380.2	16.7	29.4	140.53	-555.3	765.1	613.3	581.2	32.10	19.106		
7,700.0	7,459.0	7,613.5	7,420.0	17.1	29.5	136.87	-555.3	765.1	700.0	667.9	32.07	21.826		
7,800.0	7,485.6	7,640.2	7,446.6	17.6	29.5	127.50	-555.3	765.1	792.6	760.5	32.11	24.684		
7,900.0	7,498.6	7,653.2	7,459.6	18.2	29.5	105.74	-555.3	765.1	889.0	856.8	32.18	27.624		
8,000.0	7,500.0	7,654.6	7,461.0	19.0	29.5	90.00	-555.3	765.1	987.0	954.7	32.27	30.587		
8,100.0	7,500.0	7,654.6	7,461.0	19.9	29.5	90.00	-555.3	765.1	1,085.4	1,053.0	32.37	33.529		
8,200.0	7,500.0	7,654.6	7,461.0	20.9	29.5	90.00	-555.3	765.1	1,184.1	1,151.6	32.49	36.449		
8,300.0	7,500.0	7,654.6	7,461.0	22.0	29.5	90.00	-555.3	765.1	1,283.0	1,250.4	32.61	39.346		
8,400.0	7,500.0	7,654.6	7,461.0	23.2	29.5	90.00	-555.3	765.1	1,382.0	1,349.3	32.73	42.221		
8,500.0	7,500.0	7,654.6	7,461.0	24.4	29.5	90.00	-555.3	765.1	1,481.2	1,448.3	32.86	45.074		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	56.49	195.3	294.9	353.8					
100.0	100.0	91.0	91.0	0.1	0.1	56.49	195.3	294.9	353.7	353.4	0.28	1,248.223		
200.0	200.0	191.0	191.0	0.3	0.3	56.49	195.3	294.9	353.7	353.1	0.63	561.355		
300.0	300.0	291.0	291.0	0.5	0.5	56.49	195.3	294.9	353.7	352.7	0.98	361.228		
400.0	400.0	391.0	391.0	0.7	0.7	56.49	195.3	294.9	353.7	352.4	1.33	266.293		
500.0	500.0	491.0	491.0	0.8	0.8	56.49	195.3	294.9	353.7	352.0	1.68	210.873 CC		
600.0	600.0	587.8	587.8	1.0	1.0	-67.87	194.4	295.9	353.8	351.8	2.02	174.929 ES		
700.0	700.0	684.2	684.0	1.2	1.2	-67.54	191.5	299.5	354.2	351.8	2.38	149.030		
800.0	799.9	780.4	780.0	1.4	1.4	-66.96	186.6	305.5	355.0	352.3	2.75	128.991		
900.0	899.7	876.4	875.3	1.6	1.6	-66.13	179.7	314.0	356.3	353.1	3.16	112.727		
1,000.0	999.4	972.2	970.0	1.8	1.9	-65.07	170.8	325.0	358.0	354.4	3.61	99.160		
1,100.0	1,098.9	1,067.5	1,063.8	2.0	2.2	-63.79	159.9	338.3	360.3	356.2	4.11	87.706		
1,200.0	1,198.4	1,163.7	1,157.8	2.2	2.5	-62.21	147.0	354.1	363.7	359.0	4.64	78.429		
1,300.0	1,297.8	1,263.0	1,254.7	2.5	2.9	-60.49	133.2	371.1	367.7	362.5	5.19	70.842		
1,400.0	1,397.3	1,362.3	1,351.5	2.7	3.3	-58.81	119.4	388.0	372.0	366.2	5.74	64.765		
1,500.0	1,496.7	1,461.6	1,448.4	2.9	3.7	-57.16	105.6	405.0	376.6	370.3	6.29	59.836		
1,600.0	1,596.1	1,560.9	1,545.3	3.2	4.1	-55.56	91.7	421.9	381.5	374.7	6.84	55.796		
1,700.0	1,695.6	1,660.2	1,642.1	3.4	4.5	-54.00	77.9	438.9	386.8	379.4	7.37	52.448		
1,800.0	1,795.0	1,759.5	1,739.0	3.7	4.9	-52.48	64.1	455.8	392.3	384.4	7.90	49.649		
1,900.0	1,894.5	1,858.8	1,835.9	3.9	5.3	-51.01	50.3	472.8	398.1	389.7	8.42	47.288		
2,000.0	1,993.9	1,958.1	1,932.8	4.2	5.7	-49.57	36.5	489.7	404.1	395.2	8.92	45.283		
2,100.0	2,093.4	2,057.4	2,029.6	4.4	6.2	-48.18	22.7	506.6	410.4	401.0	9.42	43.570		
2,200.0	2,192.8	2,156.8	2,126.5	4.6	6.6	-46.83	8.9	523.6	416.9	407.0	9.90	42.097		
2,300.0	2,292.3	2,256.1	2,223.4	4.9	7.0	-45.53	-5.0	540.5	423.7	413.3	10.38	40.825		
2,400.0	2,391.7	2,355.4	2,320.2	5.1	7.4	-44.26	-18.8	557.5	430.6	419.8	10.84	39.722		
2,500.0	2,491.2	2,454.7	2,417.1	5.4	7.8	-43.04	-32.6	574.4	437.8	426.5	11.29	38.762		
2,600.0	2,590.6	2,554.0	2,514.0	5.6	8.2	-41.85	-46.4	591.4	445.2	433.4	11.74	37.924		
2,700.0	2,690.1	2,653.3	2,610.9	5.9	8.7	-40.70	-60.2	608.3	452.7	440.5	12.17	37.191		
2,800.0	2,789.5	2,752.6	2,707.7	6.1	9.1	-39.60	-74.0	625.3	460.4	447.8	12.60	36.548		
2,900.0	2,889.0	2,851.9	2,804.6	6.4	9.5	-38.52	-87.9	642.2	468.3	455.3	13.01	35.984		
3,000.0	2,988.4	2,951.2	2,901.5	6.6	9.9	-37.49	-101.7	659.2	476.4	462.9	13.42	35.487		
3,100.0	3,087.9	3,050.5	2,998.3	6.9	10.3	-36.49	-115.5	676.1	484.5	470.7	13.82	35.050		
3,200.0	3,187.3	3,149.8	3,095.2	7.2	10.8	-35.52	-129.3	693.1	492.9	478.7	14.22	34.665		
3,300.0	3,286.8	3,249.2	3,192.1	7.4	11.2	-34.58	-143.1	710.0	501.4	486.8	14.61	34.326		
3,400.0	3,386.2	3,348.5	3,289.0	7.7	11.6	-33.68	-156.9	727.0	510.0	495.0	14.99	34.026		
3,500.0	3,485.7	3,447.8	3,385.8	7.9	12.0	-32.80	-170.8	743.9	518.7	503.3	15.36	33.763		
3,600.0	3,585.1	3,547.1	3,482.7	8.2	12.5	-31.95	-184.6	760.9	527.5	511.8	15.73	33.531		
3,700.0	3,684.6	3,646.4	3,579.6	8.4	12.9	-31.14	-198.4	777.8	536.5	520.4	16.10	33.327		
3,800.0	3,784.0	3,745.7	3,676.4	8.7	13.3	-30.34	-212.2	794.8	545.6	529.1	16.46	33.148		
3,900.0	3,883.5	3,845.0	3,773.3	8.9	13.7	-29.58	-226.0	811.7	554.7	537.9	16.81	32.991		
4,000.0	3,982.9	3,944.3	3,870.2	9.2	14.1	-28.84	-239.8	828.7	564.0	546.8	17.17	32.853		
4,100.0	4,082.4	4,043.6	3,967.1	9.4	14.6	-28.12	-253.6	845.6	573.3	555.8	17.52	32.733		
4,200.0	4,181.8	4,142.9	4,063.9	9.7	15.0	-27.43	-267.5	862.6	582.8	564.9	17.86	32.629		
4,300.0	4,281.3	4,242.2	4,160.8	9.9	15.4	-26.76	-281.3	879.5	592.3	574.1	18.20	32.539		
4,400.0	4,380.7	4,341.5	4,257.7	10.2	15.8	-26.11	-295.1	896.5	601.9	583.3	18.54	32.461		
4,500.0	4,480.2	4,440.9	4,354.5	10.4	16.3	-25.48	-308.9	913.4	611.6	592.7	18.88	32.395		
4,600.0	4,579.6	4,540.2	4,451.4	10.7	16.7	-24.87	-322.7	930.4	621.3	602.1	19.21	32.339		
4,700.0	4,679.1	4,639.5	4,548.3	10.9	17.1	-24.27	-336.5	947.3	631.1	611.6	19.54	32.291		
4,800.0	4,778.5	4,738.8	4,645.2	11.2	17.5	-23.70	-350.4	964.3	641.0	621.1	19.87	32.252		
4,900.0	4,878.0	4,838.1	4,742.0	11.4	18.0	-23.14	-364.2	981.2	650.9	630.7	20.20	32.220		
5,000.0	4,977.4	4,937.4	4,838.9	11.7	18.4	-22.61	-378.0	998.2	660.9	640.4	20.53	32.195		
5,100.0	5,076.9	5,036.7	4,935.8	11.9	18.8	-22.08	-391.8	1,015.1	671.0	650.1	20.85	32.175		

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 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,200.0	5,176.3	5,136.0	5,032.6	12.2	19.2	-21.57	-405.6	1,032.1	681.1	659.9	21.18	32.160		
5,300.0	5,275.8	5,235.3	5,129.5	12.4	19.6	-21.08	-419.4	1,049.0	691.2	669.7	21.50	32.150		
5,400.0	5,375.2	5,334.6	5,226.4	12.7	20.1	-20.60	-433.3	1,066.0	701.4	679.6	21.82	32.144		
5,500.0	5,474.7	5,433.9	5,323.3	12.9	20.5	-20.14	-447.1	1,082.9	711.7	689.6	22.14	32.142		
5,600.0	5,574.1	5,533.2	5,420.1	13.2	20.9	-19.69	-460.9	1,099.8	722.0	699.5	22.46	32.143		
5,700.0	5,673.6	5,632.6	5,517.0	13.5	21.3	-19.25	-474.7	1,116.8	732.3	709.6	22.78	32.147		
5,800.0	5,773.0	5,731.9	5,613.9	13.7	21.8	-18.82	-488.5	1,133.7	742.7	719.6	23.10	32.154		
5,900.0	5,872.5	5,831.2	5,710.7	14.0	22.2	-18.40	-502.3	1,150.7	753.1	729.7	23.42	32.163		
6,000.0	5,971.9	5,943.3	5,820.2	14.2	22.6	-17.96	-517.6	1,169.5	763.3	739.5	23.77	32.108		
6,100.0	6,071.4	6,075.8	5,950.6	14.5	23.1	-17.59	-532.7	1,187.9	770.0	745.8	24.18	31.841		
6,200.0	6,170.8	6,209.0	6,082.5	14.7	23.4	-17.40	-543.9	1,201.7	772.4	747.8	24.58	31.428		
6,300.0	6,270.3	6,342.2	6,215.2	15.0	23.7	-17.39	-551.3	1,210.8	770.5	745.5	24.95	30.878		
6,400.0	6,369.7	6,474.9	6,347.8	15.2	23.8	-17.55	-554.8	1,215.1	764.3	739.0	25.32	30.191		
6,500.0	6,469.2	6,587.3	6,460.2	15.5	23.9	-17.80	-555.1	1,215.4	754.7	729.0	25.69	29.376		
6,600.0	6,568.6	6,686.7	6,559.6	15.7	24.0	-18.05	-555.1	1,215.4	744.7	718.6	26.08	28.558		
6,700.0	6,668.1	6,786.2	6,659.1	16.0	24.1	-18.30	-555.1	1,215.4	734.7	708.2	26.46	27.763		
6,800.0	6,767.5	6,885.6	6,758.5	16.2	24.2	-1.51	-555.1	1,215.4	724.9	698.0	26.84	27.003		
6,900.0	6,867.0	6,985.1	6,858.0	16.4	24.3	68.70	-555.1	1,215.4	717.7	690.7	26.98	26.596 SF		
7,000.0	6,964.8	7,083.0	6,955.8	16.5	24.4	89.00	-555.1	1,215.4	714.7	687.9	26.84	26.628		
7,008.9	6,973.4	7,091.5	6,964.4	16.5	24.4	90.00	-555.1	1,215.4	714.7	687.9	26.82	26.650		
7,100.0	7,059.3	7,177.4	7,050.3	16.5	24.4	97.67	-555.1	1,215.4	717.2	690.6	26.53	27.034		
7,200.0	7,148.4	7,266.5	7,139.4	16.5	24.5	103.22	-555.1	1,215.4	726.6	700.4	26.23	27.705		
7,300.0	7,230.4	7,348.5	7,221.4	16.4	24.6	107.23	-555.1	1,215.4	744.8	718.7	26.15	28.486		
7,400.0	7,303.8	7,422.0	7,294.8	16.4	24.7	109.93	-555.1	1,215.4	773.3	746.8	26.46	29.229		
7,500.0	7,367.2	7,485.3	7,358.2	16.5	24.7	111.19	-555.1	1,215.4	813.0	785.8	27.21	29.876		
7,600.0	7,419.2	7,537.4	7,410.2	16.7	24.8	110.75	-555.1	1,215.4	863.9	835.6	28.34	30.486		
7,700.0	7,459.0	7,577.1	7,450.0	17.1	24.8	108.20	-555.1	1,215.4	925.4	895.7	29.69	31.172		
7,800.0	7,485.6	7,603.7	7,476.6	17.6	24.8	103.04	-555.1	1,215.4	995.8	964.8	31.10	32.023		
7,900.0	7,498.6	7,616.8	7,489.6	18.2	24.8	94.72	-555.1	1,215.4	1,073.3	1,040.8	32.45	33.076		
8,000.0	7,500.0	7,618.1	7,491.0	19.0	24.8	90.00	-555.1	1,215.4	1,155.4	1,121.7	33.68	34.306		
8,100.0	7,500.0	7,618.1	7,491.0	19.9	24.8	90.00	-555.1	1,215.4	1,240.2	1,205.4	34.79	35.644		
8,200.0	7,500.0	7,618.1	7,491.0	20.9	24.8	90.00	-555.1	1,215.4	1,327.1	1,291.3	35.80	37.071		
8,300.0	7,500.0	7,618.1	7,491.0	22.0	24.8	90.00	-555.1	1,215.4	1,415.7	1,379.0	36.70	38.574		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-4-32 - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	39.76	953.0	792.9	1,240.3					
100.0	100.0	61.0	61.0	0.1	0.1	39.76	953.0	792.9	1,239.7	1,239.4	0.26	4,861.485		
200.0	200.0	161.0	161.0	0.3	0.3	39.76	953.0	792.9	1,239.7	1,239.1	0.60	2,052.322		
300.0	300.0	261.0	261.0	0.5	0.5	39.76	953.0	792.9	1,239.7	1,238.7	0.95	1,300.716		
400.0	400.0	361.0	361.0	0.7	0.6	39.76	953.0	792.9	1,239.7	1,238.4	1.30	952.053		
500.0	500.0	461.0	461.0	0.8	0.8	39.76	953.0	792.9	1,239.7	1,238.0	1.65	750.798		
600.0	600.0	561.0	561.0	1.0	1.0	-84.72	953.0	792.9	1,239.6	1,237.6	2.00	619.605		
700.0	700.0	661.0	661.0	1.2	1.2	-84.84	953.0	792.9	1,239.4	1,237.0	2.35	526.802		
800.0	799.9	760.9	760.9	1.4	1.3	-85.05	953.0	792.9	1,239.0	1,236.3	2.71	457.174		
896.3	896.0	850.0	850.0	1.6	1.5	-85.30	953.0	792.9	1,238.5	1,235.5	3.05	405.991 CC		
900.0	899.7	850.0	850.0	1.6	1.5	-85.30	953.0	792.9	1,238.5	1,235.5	3.06	405.057 ES		
1,000.0	999.4	850.0	850.0	1.8	1.5	-85.26	953.0	792.9	1,242.8	1,239.5	3.25	381.987		
1,059.8	1,059.0	969.1	969.0	1.9	1.9	-85.71	954.7	794.7	1,241.0	1,237.2	3.72	333.964		
1,100.0	1,098.9	997.0	997.0	2.0	2.0	-85.82	955.5	795.7	1,242.5	1,238.6	3.87	321.046		
1,200.0	1,198.4	1,066.6	1,066.4	2.2	2.3	-86.12	958.5	798.9	1,248.1	1,243.8	4.25	293.844		
1,300.0	1,297.8	1,136.0	1,135.5	2.5	2.5	-86.41	962.6	803.4	1,256.0	1,251.4	4.61	272.242		
1,400.0	1,397.3	1,205.1	1,204.2	2.7	2.8	-86.68	967.8	809.1	1,266.5	1,261.5	4.97	254.810		
1,500.0	1,496.7	1,273.9	1,272.4	2.9	3.1	-86.93	974.1	816.0	1,279.3	1,274.0	5.32	240.575		
1,600.0	1,596.1	1,342.3	1,339.9	3.2	3.4	-87.16	981.5	824.0	1,294.5	1,288.8	5.66	228.854		
1,700.0	1,695.6	1,410.2	1,406.7	3.4	3.7	-87.38	989.9	833.1	1,312.0	1,306.0	5.99	219.152		
1,800.0	1,795.0	1,477.6	1,472.6	3.7	4.0	-87.57	999.3	843.3	1,331.8	1,325.5	6.31	211.097		
1,900.0	1,894.5	1,625.6	1,616.2	3.9	4.7	-87.93	1,023.5	869.8	1,357.5	1,350.7	6.79	200.007		
2,000.0	1,993.9	1,625.6	1,616.2	4.2	4.7	-87.93	1,023.5	869.8	1,378.3	1,371.4	6.96	197.935		
2,100.0	2,093.4	1,699.7	1,687.6	4.4	5.0	-88.09	1,036.9	884.4	1,404.1	1,396.7	7.35	191.049		
2,200.0	2,192.8	1,796.2	1,780.5	4.6	5.5	-88.29	1,054.3	903.4	1,430.0	1,422.2	7.80	183.269		
2,300.0	2,292.3	1,892.6	1,873.4	4.9	6.0	-88.48	1,071.8	922.4	1,456.0	1,447.7	8.26	176.354		
2,400.0	2,391.7	1,989.1	1,966.4	5.1	6.5	-88.67	1,089.2	941.4	1,482.0	1,473.2	8.71	170.164		
8,900.0	7,500.0	7,657.7	7,461.0	29.9	30.1	90.00	1,976.5	1,909.0	1,468.6	1,431.1	37.51	39.151		
9,000.0	7,500.0	7,657.7	7,461.0	31.4	30.1	90.00	1,976.5	1,909.0	1,425.6	1,385.0	40.57	35.142		
9,100.0	7,500.0	7,657.7	7,461.0	32.9	30.1	90.00	1,976.5	1,909.0	1,388.5	1,344.6	43.95	31.594		
9,200.0	7,500.0	7,657.7	7,461.0	34.4	30.1	90.00	1,976.5	1,909.0	1,357.8	1,310.2	47.58	28.539		
9,300.0	7,500.0	7,657.7	7,461.0	36.0	30.1	90.00	1,976.5	1,909.0	1,333.9	1,282.5	51.36	25.971		
9,400.0	7,500.0	7,657.7	7,461.0	37.5	30.1	90.00	1,976.5	1,909.0	1,317.1	1,261.9	55.20	23.862		
9,500.0	7,500.0	7,657.7	7,461.0	39.1	30.1	90.00	1,976.5	1,909.0	1,307.8	1,248.9	58.98	22.172		
9,571.9	7,500.0	7,657.7	7,461.0	40.3	30.1	90.00	1,976.5	1,909.0	1,305.9	1,244.2	61.62	21.192		
9,600.0	7,500.0	7,657.7	7,461.0	40.7	30.1	90.00	1,976.5	1,909.0	1,306.2	1,243.5	62.62	20.859		
9,700.0	7,500.0	7,657.7	7,461.0	42.3	30.1	90.00	1,976.5	1,909.0	1,312.1	1,246.1	66.01	19.877		
9,800.0	7,500.0	7,657.7	7,461.0	43.9	30.1	90.00	1,976.5	1,909.0	1,325.6	1,256.5	69.10	19.185		
9,900.0	7,500.0	7,657.7	7,461.0	45.6	30.1	90.00	1,976.5	1,909.0	1,347.5	1,275.7	71.82	18.763		
10,000.0	7,500.0	7,657.7	7,461.0	47.2	30.1	90.00	1,976.5	1,909.0	1,377.0	1,302.8	74.16	18.568		
10,100.0	7,500.0	7,657.7	7,461.0	48.8	30.1	90.00	1,976.5	1,909.0	1,412.8	1,336.7	76.12	18.562 SF		
10,200.0	7,500.0	7,657.7	7,461.0	50.5	30.1	90.00	1,976.5	1,909.0	1,454.7	1,377.0	77.72	18.718		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY													Offset Site Error: 0.0 ft	
Survey Program: 850-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	40.16	953.0	804.1	1,247.5					
100.0	100.0	61.0	61.0	0.1	0.1	40.16	953.0	804.1	1,246.9	1,246.6	0.26	4,889.696		
200.0	200.0	161.0	161.0	0.3	0.3	40.16	953.0	804.1	1,246.9	1,246.3	0.60	2,064.232		
300.0	300.0	261.0	261.0	0.5	0.5	40.16	953.0	804.1	1,246.9	1,245.9	0.95	1,308.264		
400.0	400.0	361.0	361.0	0.7	0.6	40.16	953.0	804.1	1,246.9	1,245.6	1.30	957.578		
500.0	500.0	461.0	461.0	0.8	0.8	40.16	953.0	804.1	1,246.9	1,245.2	1.65	755.155		
600.0	600.0	561.0	561.0	1.0	1.0	-84.32	953.0	804.1	1,246.8	1,244.8	2.00	623.198		
700.0	700.0	661.0	661.0	1.2	1.2	-84.45	953.0	804.1	1,246.5	1,244.2	2.35	529.850		
800.0	799.9	760.9	760.9	1.4	1.3	-84.65	953.0	804.1	1,246.1	1,243.4	2.71	459.811		
896.7	896.4	850.0	850.0	1.6	1.5	-84.90	953.0	804.1	1,245.6	1,242.6	3.05	408.236		
900.0	899.7	850.0	850.0	1.6	1.5	-84.90	953.0	804.1	1,245.6	1,242.6	3.06	407.383		
947.4	946.9	898.0	898.0	1.7	1.6	-85.05	952.9	804.5	1,245.5	1,242.2	3.27	380.488 CC, ES		
1,000.0	999.4	941.5	941.5	1.8	1.7	-85.17	952.7	805.5	1,245.7	1,242.3	3.49	356.718		
1,100.0	1,098.9	1,024.4	1,024.3	2.0	2.0	-85.36	952.0	809.3	1,247.1	1,243.2	3.93	317.429		
1,200.0	1,198.4	1,107.4	1,107.0	2.2	2.2	-85.51	950.8	815.4	1,249.8	1,245.5	4.38	285.495		
1,300.0	1,297.8	1,190.4	1,189.6	2.5	2.5	-85.55	949.1	823.9	1,253.9	1,249.1	4.83	259.351		
1,400.0	1,397.3	1,273.3	1,271.7	2.7	2.7	-85.50	947.1	834.7	1,259.3	1,254.0	5.30	237.768		
1,500.0	1,496.7	1,355.9	1,353.3	2.9	3.0	-85.36	944.5	847.8	1,266.1	1,260.3	5.76	219.802		
1,600.0	1,596.1	1,444.6	1,440.4	3.2	3.3	-85.11	941.3	864.2	1,274.1	1,267.9	6.26	203.397		
1,700.0	1,695.6	1,544.1	1,538.0	3.4	3.6	-84.81	937.7	883.1	1,282.5	1,275.6	6.84	187.568		
1,800.0	1,795.0	1,643.5	1,635.5	3.7	4.0	-84.52	934.0	902.0	1,290.8	1,283.4	7.41	174.163		
1,900.0	1,894.5	1,742.9	1,733.1	3.9	4.4	-84.23	930.3	920.8	1,299.2	1,291.2	7.99	162.676		
2,000.0	1,993.9	1,842.4	1,830.6	4.2	4.8	-83.94	926.7	939.7	1,307.7	1,299.1	8.56	152.732		
2,100.0	2,093.4	1,941.8	1,928.2	4.4	5.1	-83.66	923.0	958.6	1,316.1	1,307.0	9.14	144.045		
2,200.0	2,192.8	2,041.2	2,025.7	4.6	5.5	-83.38	919.4	977.5	1,324.6	1,314.9	9.71	136.395		
2,300.0	2,292.3	2,140.6	2,123.3	4.9	5.9	-83.10	915.7	996.3	1,333.2	1,322.9	10.29	129.610		
2,400.0	2,391.7	2,240.1	2,220.9	5.1	6.3	-82.83	912.0	1,015.2	1,341.7	1,330.9	10.86	123.553		
2,500.0	2,491.2	2,339.5	2,318.4	5.4	6.7	-82.56	908.4	1,034.1	1,350.3	1,338.9	11.43	118.115		
2,600.0	2,590.6	2,438.9	2,416.0	5.6	7.0	-82.30	904.7	1,053.0	1,358.9	1,346.9	12.00	113.206		
2,700.0	2,690.1	2,538.4	2,513.5	5.9	7.4	-82.04	901.1	1,071.8	1,367.6	1,355.0	12.57	108.755		
2,800.0	2,789.5	2,637.8	2,611.1	6.1	7.8	-81.78	897.4	1,090.7	1,376.2	1,363.1	13.14	104.700		
2,900.0	2,889.0	2,737.2	2,708.6	6.4	8.2	-81.52	893.7	1,109.6	1,384.9	1,371.2	13.71	100.992		
3,000.0	2,988.4	2,836.7	2,806.2	6.6	8.5	-81.27	890.1	1,128.5	1,393.7	1,379.4	14.28	97.589		
3,100.0	3,087.9	2,936.1	2,903.7	6.9	8.9	-81.02	886.4	1,147.4	1,402.4	1,387.6	14.85	94.455		
3,200.0	3,187.3	3,035.5	3,001.3	7.2	9.3	-80.78	882.7	1,166.2	1,411.2	1,395.8	15.41	91.560		
3,300.0	3,286.8	3,135.0	3,098.8	7.4	9.7	-80.53	879.1	1,185.1	1,420.0	1,404.0	15.98	88.878		
3,400.0	3,386.2	3,234.4	3,196.4	7.7	10.1	-80.29	875.4	1,204.0	1,428.8	1,412.3	16.54	86.387		
3,500.0	3,485.7	3,333.8	3,294.0	7.9	10.4	-80.06	871.8	1,222.9	1,437.7	1,420.6	17.10	84.067		
3,600.0	3,585.1	3,433.3	3,391.5	8.2	10.8	-79.82	868.1	1,241.7	1,446.6	1,428.9	17.66	81.902		
3,700.0	3,684.6	3,532.7	3,489.1	8.4	11.2	-79.59	864.4	1,260.6	1,455.5	1,437.3	18.22	79.876		
3,800.0	3,784.0	3,632.1	3,586.6	8.7	11.6	-79.36	860.8	1,279.5	1,464.4	1,445.6	18.78	77.977		
3,900.0	3,883.5	3,731.5	3,684.2	8.9	12.0	-79.14	857.1	1,298.4	1,473.4	1,454.0	19.34	76.194		
4,000.0	3,982.9	3,831.0	3,781.7	9.2	12.3	-78.92	853.4	1,317.2	1,482.3	1,462.5	19.89	74.517		
4,100.0	4,082.4	3,930.4	3,879.3	9.4	12.7	-78.70	849.8	1,336.1	1,491.3	1,470.9	20.45	72.936		
7,700.0	7,459.0	7,526.6	7,420.0	17.1	24.0	80.29	738.1	1,912.0	1,465.1	1,434.0	31.16	47.025		
7,800.0	7,485.6	7,553.2	7,446.6	17.6	24.0	85.18	738.1	1,912.0	1,424.3	1,393.7	30.55	46.623		
7,900.0	7,498.6	7,566.3	7,459.6	18.2	24.0	88.83	738.1	1,912.0	1,389.2	1,358.9	30.26	45.903		
8,000.0	7,500.0	7,567.6	7,461.0	19.0	24.0	90.00	738.1	1,912.0	1,361.2	1,330.8	30.37	44.813		
8,100.0	7,500.0	7,567.6	7,461.0	19.9	24.0	90.00	738.1	1,912.0	1,340.2	1,309.3	30.90	43.371		
8,200.0	7,500.0	7,567.6	7,461.0	20.9	24.0	90.00	738.1	1,912.0	1,326.4	1,294.6	31.80	41.705		
8,300.0	7,500.0	7,567.6	7,461.0	22.0	24.0	90.00	738.1	1,912.0	1,320.1	1,287.1	33.03	39.963		
8,333.6	7,500.0	7,567.6	7,461.0	22.4	24.0	90.00	738.1	1,912.0	1,319.7	1,286.1	33.51	39.376		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-6-32 - ENCANA WELL - PLAN ONLY													Offset Site Error: 0.0 ft
Survey Program: 850-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance		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		
8,400.0	7,500.0	7,567.6	7,461.0	23.2	24.0	90.00	738.1	1,912.0	1,321.3	1,286.8	34.52	38.273	
8,500.0	7,500.0	7,567.6	7,461.0	24.4	24.0	90.00	738.1	1,912.0	1,330.1	1,293.9	36.22	36.725	
8,600.0	7,500.0	7,567.6	7,461.0	25.7	24.0	90.00	738.1	1,912.0	1,346.3	1,308.2	38.06	35.377	
8,700.0	7,500.0	7,567.6	7,461.0	27.1	24.0	90.00	738.1	1,912.0	1,369.6	1,329.6	39.97	34.263	
8,800.0	7,500.0	7,567.6	7,461.0	28.5	24.0	90.00	738.1	1,912.0	1,399.6	1,357.7	41.91	33.395	
8,900.0	7,500.0	7,567.6	7,461.0	29.9	24.0	90.00	738.1	1,912.0	1,436.1	1,392.3	43.82	32.774	
9,000.0	7,500.0	7,567.6	7,461.0	31.4	24.0	90.00	738.1	1,912.0	1,478.4	1,432.7	45.65	32.387 SF	

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 70-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	56.49	195.3	294.9	353.8					
100.0	100.0	87.9	87.9	0.1	0.1	56.50	195.4	295.3	354.2	353.9	0.28	1,285.248		
200.0	200.0	184.4	184.4	0.3	0.3	56.60	195.6	296.6	355.4	354.7	0.62	573.913		
300.0	300.0	282.0	281.9	0.5	0.5	57.06	194.3	299.9	357.4	356.5	0.97	367.688		
400.0	400.0	374.6	374.3	0.7	0.7	57.92	191.5	305.6	361.0	359.7	1.33	271.033		
500.0	500.0	470.1	469.2	0.8	0.9	59.22	187.2	314.3	366.5	364.8	1.72	213.112		
600.0	600.0	564.1	562.5	1.0	1.2	-63.64	181.2	324.9	372.7	370.6	2.13	174.997		
700.0	700.0	655.3	652.4	1.2	1.5	-61.97	173.9	338.0	380.4	377.8	2.57	148.293		
800.0	799.9	745.9	741.3	1.4	1.8	-60.17	165.2	353.8	389.7	386.7	3.02	129.034		
900.0	899.7	835.2	828.3	1.6	2.2	-58.54	156.8	371.6	400.9	397.4	3.48	115.216		
1,000.0	999.4	927.9	918.3	1.8	2.6	-57.03	148.3	392.0	413.4	409.4	3.97	104.116		
1,100.0	1,098.9	1,018.3	1,005.5	2.0	3.1	-55.49	138.2	413.8	426.5	422.0	4.49	95.017		
1,200.0	1,198.4	1,103.0	1,086.2	2.2	3.6	-53.94	127.0	437.2	442.2	437.2	5.00	88.501		
1,300.0	1,297.8	1,187.0	1,165.1	2.5	4.1	-52.28	115.2	463.3	461.2	455.7	5.50	83.918		
1,400.0	1,397.3	1,273.1	1,245.1	2.7	4.7	-50.54	102.4	492.3	483.3	477.3	6.00	80.497		
1,500.0	1,496.7	1,363.2	1,327.9	2.9	5.4	-48.63	87.5	524.6	507.5	501.0	6.53	77.714		
1,600.0	1,596.1	1,457.9	1,414.3	3.2	6.1	-46.57	70.1	559.3	532.9	525.8	7.07	75.378		
1,700.0	1,695.6	1,549.9	1,498.1	3.4	6.8	-44.71	52.7	593.1	558.9	551.3	7.55	74.015		
1,800.0	1,795.0	1,640.5	1,580.7	3.7	7.5	-43.22	37.6	626.9	586.2	578.2	8.00	73.297		
1,900.0	1,894.5	1,732.5	1,664.8	3.9	8.3	-41.93	23.3	661.6	614.5	606.0	8.45	72.754		
2,000.0	1,993.9	1,820.7	1,745.0	4.2	8.9	-40.77	9.5	695.5	643.6	634.8	8.85	72.686		
2,100.0	2,093.4	1,917.3	1,832.7	4.4	9.7	-39.62	-5.5	733.2	673.7	664.4	9.31	72.386		
2,200.0	2,192.8	2,032.1	1,937.4	4.6	10.6	-38.29	-24.6	776.1	702.4	692.6	9.84	71.377		
2,300.0	2,292.3	2,139.0	2,036.0	4.9	11.4	-37.18	-42.3	813.5	728.7	718.4	10.31	70.669		
2,400.0	2,391.7	2,234.3	2,123.9	5.1	12.1	-36.24	-58.3	846.7	755.1	744.4	10.72	70.422		
2,500.0	2,491.2	2,348.8	2,229.9	5.4	12.9	-35.14	-78.4	885.2	780.5	769.3	11.21	69.639		
2,600.0	2,590.6	2,454.6	2,328.7	5.6	13.6	-34.31	-95.3	918.6	804.0	792.4	11.62	69.188		
2,700.0	2,690.1	2,546.0	2,414.6	5.9	14.1	-33.83	-107.3	947.6	827.5	815.5	11.98	69.082		
2,800.0	2,789.5	2,665.4	2,527.2	6.1	14.9	-33.26	-122.7	984.3	850.1	837.6	12.46	68.219		
2,900.0	2,889.0	2,761.6	2,618.4	6.4	15.5	-32.79	-135.6	1,012.1	870.9	858.1	12.84	67.835		
3,000.0	2,988.4	2,857.9	2,709.2	6.6	16.1	-32.33	-148.6	1,041.4	893.3	880.1	13.23	67.537		
3,100.0	3,087.9	2,967.3	2,812.5	6.9	16.8	-31.67	-166.1	1,072.7	914.1	900.4	13.66	66.903		
3,200.0	3,187.3	3,070.0	2,909.7	7.2	17.4	-31.04	-183.0	1,101.3	934.3	920.2	14.04	66.557		
3,300.0	3,286.8	3,157.0	2,992.3	7.4	17.9	-30.65	-195.3	1,125.8	954.6	940.3	14.36	66.467		
3,400.0	3,386.2	3,244.0	3,074.5	7.7	18.4	-30.24	-208.3	1,151.1	976.2	961.4	14.71	66.369		
3,500.0	3,485.7	3,338.2	3,163.1	7.9	19.1	-29.75	-223.5	1,179.3	998.6	983.5	15.06	66.325		
3,600.0	3,585.1	3,434.2	3,253.4	8.2	19.7	-29.38	-237.2	1,208.5	1,021.4	1,006.0	15.40	66.318		
3,700.0	3,684.6	3,544.5	3,357.8	8.4	20.3	-29.08	-251.0	1,241.6	1,043.6	1,027.8	15.82	65.958		
3,800.0	3,784.0	3,646.0	3,454.0	8.7	20.9	-28.75	-264.7	1,270.9	1,064.9	1,048.7	16.20	65.742		
3,900.0	3,883.5	3,734.8	3,538.1	8.9	21.5	-28.51	-276.0	1,296.9	1,086.5	1,070.0	16.53	65.716		
4,000.0	3,982.9	3,837.0	3,634.7	9.2	22.1	-28.22	-289.7	1,327.4	1,108.7	1,091.8	16.92	65.528		
4,100.0	4,082.4	3,913.2	3,706.7	9.4	22.6	-27.99	-300.2	1,350.1	1,131.1	1,113.9	17.20	65.777		
4,200.0	4,181.8	3,993.7	3,782.2	9.7	23.1	-27.81	-310.6	1,375.9	1,155.5	1,138.0	17.49	66.079		
4,300.0	4,281.3	4,130.6	3,910.9	9.9	24.0	-27.48	-328.6	1,418.8	1,179.5	1,161.5	18.01	65.485		
4,400.0	4,380.7	4,230.4	4,005.7	10.2	24.6	-27.23	-342.0	1,447.2	1,200.5	1,182.1	18.37	65.351		
4,500.0	4,480.2	4,292.0	4,063.8	10.4	25.0	-27.12	-349.5	1,466.1	1,223.5	1,204.9	18.59	65.800		
4,600.0	4,579.6	4,355.8	4,123.4	10.7	25.5	-27.01	-357.4	1,487.3	1,249.2	1,230.3	18.83	66.336		
4,700.0	4,679.1	4,452.0	4,212.7	10.9	26.1	-26.81	-370.5	1,520.8	1,276.6	1,257.4	19.19	66.534		
4,800.0	4,778.5	4,609.4	4,360.6	11.2	27.1	-26.52	-391.0	1,570.5	1,300.4	1,280.6	19.78	65.750		
4,900.0	4,878.0	4,707.0	4,452.9	11.4	27.7	-26.36	-403.0	1,599.8	1,322.8	1,302.6	20.15	65.658		
5,000.0	4,977.4	4,802.7	4,543.3	11.7	28.3	-26.16	-416.1	1,628.4	1,345.2	1,324.7	20.50	65.610		
5,100.0	5,076.9	4,883.1	4,619.0	11.9	28.8	-25.95	-428.1	1,652.7	1,368.4	1,347.6	20.80	65.796		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) - RAY NELSON 8-8-32 - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 70-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,092.3	4,817.8	12.2	30.0	-25.36	-460.2	1,709.3	1,388.6	1,367.1	21.50	64.593		
5,300.0	5,275.8	5,165.4	4,887.9	12.4	30.4	-25.16	-471.1	1,726.9	1,405.4	1,383.7	21.78	64.537		
5,400.0	5,375.2	5,275.2	4,993.2	12.7	31.0	-24.87	-487.4	1,753.5	1,422.6	1,400.4	22.15	64.215		
5,500.0	5,474.7	5,391.2	5,104.5	12.9	31.6	-24.63	-503.2	1,781.6	1,439.6	1,417.0	22.55	63.847		
5,600.0	5,574.1	5,554.4	5,262.9	13.2	32.3	-24.46	-520.8	1,816.5	1,453.1	1,430.1	23.05	63.038		
5,700.0	5,673.6	5,748.2	5,453.6	13.5	32.9	-24.44	-535.4	1,847.7	1,460.3	1,436.7	23.60	61.882		
5,800.0	5,773.0	5,921.2	5,625.3	13.7	33.3	-24.56	-543.4	1,867.5	1,463.0	1,438.9	24.07	60.786		
5,900.0	5,872.5	6,068.7	5,772.3	14.0	33.6	-24.73	-547.3	1,878.4	1,461.2	1,436.7	24.49	59.655		
6,000.0	5,971.9	6,191.3	5,894.8	14.2	33.7	-24.92	-549.0	1,884.7	1,456.9	1,432.0	24.90	58.513		
6,100.0	6,071.4	6,306.4	6,009.8	14.5	33.9	-25.11	-550.0	1,889.4	1,451.5	1,426.2	25.30	57.372		
6,200.0	6,170.8	6,420.7	6,124.0	14.7	34.0	-25.33	-550.2	1,893.2	1,445.3	1,419.6	25.70	56.231		
6,300.0	6,270.3	6,534.8	6,238.0	15.0	34.1	-25.56	-549.9	1,895.4	1,437.7	1,411.6	26.11	55.066		
6,400.0	6,369.7	6,642.6	6,345.9	15.2	34.2	-25.79	-549.3	1,897.0	1,429.6	1,403.1	26.51	53.920		
6,500.0	6,469.2	6,751.1	6,454.3	15.5	34.2	-26.03	-548.4	1,897.9	1,420.9	1,393.9	26.92	52.776		
6,600.0	6,568.6	6,852.3	6,555.6	15.7	34.3	-26.26	-547.5	1,898.4	1,411.8	1,384.4	27.33	51.653		
6,700.0	6,668.1	6,953.4	6,656.6	16.0	34.3	-26.50	-546.5	1,898.7	1,402.6	1,374.9	27.74	50.557		
6,800.0	6,767.5	7,054.2	6,757.4	16.2	34.4	-9.70	-545.4	1,899.0	1,393.4	1,365.2	28.15	49.507		
6,900.0	6,867.0	7,155.0	6,858.3	16.4	34.4	60.26	-544.3	1,899.2	1,385.4	1,357.1	28.31	48.942 SF		
7,000.0	6,964.8	7,254.5	6,957.7	16.5	34.5	80.00	-543.1	1,899.3	1,379.3	1,351.1	28.17	48.957		
7,100.0	7,059.3	7,352.0	7,055.3	16.5	34.6	87.94	-541.9	1,899.2	1,375.8	1,348.0	27.82	49.462		
7,150.7	7,105.2	7,399.6	7,102.9	16.5	34.6	90.61	-541.4	1,899.1	1,375.3	1,347.7	27.58	49.863		
7,200.0	7,148.4	7,444.1	7,147.3	16.5	34.6	92.74	-540.8	1,899.0	1,375.8	1,348.5	27.34	50.328		
7,300.0	7,230.4	7,527.7	7,230.9	16.4	34.6	96.09	-539.9	1,898.7	1,380.6	1,353.7	26.89	51.338		
7,400.0	7,303.8	7,602.4	7,305.6	16.4	34.7	98.44	-539.2	1,898.3	1,391.5	1,364.8	26.65	52.210		
7,500.0	7,367.2	7,665.8	7,369.0	16.5	34.7	99.77	-538.7	1,898.0	1,409.5	1,382.8	26.78	52.642		
7,600.0	7,419.2	7,717.7	7,420.9	16.7	34.8	100.00	-538.3	1,897.7	1,435.6	1,408.3	27.36	52.470		
7,700.0	7,459.0	7,757.3	7,460.5	17.1	34.8	98.99	-538.1	1,897.5	1,470.1	1,441.7	28.42	51.729		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	2.0	2.0	0.0	0.0	-89.72	0.8	-159.8	159.8					
100.0	100.0	102.0	102.0	0.1	0.2	-89.72	0.8	-159.8	159.8	159.5	0.30	532.185		
116.0	116.0	118.0	118.0	0.2	0.2	-89.72	0.8	-159.8	159.8	159.4	0.36	448.765 CC		
200.0	200.0	201.9	201.9	0.3	0.3	-89.72	0.8	-159.8	159.8	159.1	0.65	246.099 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-89.65	1.0	-160.6	160.6	159.6	0.99	161.453		
400.0	400.0	396.6	396.6	0.7	0.7	-89.44	1.6	-163.0	163.1	161.8	1.34	121.931		
500.0	500.0	493.8	493.6	0.8	0.9	-89.11	2.6	-167.1	167.3	165.6	1.68	99.460		
600.0	600.0	590.7	590.4	1.0	1.0	147.00	4.0	-172.7	173.8	171.8	2.03	85.815		
700.0	700.0	688.8	688.2	1.2	1.3	147.88	5.7	-179.8	183.3	181.0	2.37	77.276		
800.0	799.9	788.1	787.2	1.4	1.5	148.96	7.6	-187.1	194.5	191.8	2.72	71.455		
900.0	899.7	887.2	886.0	1.6	1.7	150.15	9.4	-194.5	207.3	204.3	3.07	67.453		
1,000.0	999.4	986.0	984.5	1.8	1.9	151.40	11.2	-201.9	221.7	218.3	3.43	64.719		
1,100.0	1,098.9	1,084.6	1,082.8	2.0	2.1	152.69	13.1	-209.2	237.8	234.0	3.78	62.907		
1,200.0	1,198.4	1,183.0	1,180.9	2.2	2.3	153.96	14.9	-216.5	254.7	250.6	4.13	61.636		
1,300.0	1,297.8	1,281.4	1,279.0	2.5	2.5	155.08	16.7	-223.8	271.8	267.3	4.48	60.592		
1,400.0	1,397.3	1,379.8	1,377.2	2.7	2.7	156.07	18.5	-231.1	288.9	284.1	4.84	59.723		
1,500.0	1,496.7	1,478.2	1,475.3	2.9	3.0	156.95	20.3	-238.4	306.1	300.9	5.19	58.991		
1,600.0	1,596.1	1,576.6	1,573.4	3.2	3.2	157.73	22.1	-245.7	323.4	317.8	5.54	58.367		
1,700.0	1,695.6	1,675.0	1,671.5	3.4	3.4	158.43	24.0	-253.0	340.7	334.8	5.89	57.830		
1,800.0	1,795.0	1,773.4	1,769.6	3.7	3.6	159.07	25.8	-260.4	358.1	351.8	6.24	57.364		
1,900.0	1,894.5	1,871.8	1,867.7	3.9	3.8	159.64	27.6	-267.7	375.5	368.9	6.59	56.955		
2,000.0	1,993.9	1,970.2	1,965.9	4.2	4.0	160.17	29.4	-275.0	392.9	386.0	6.94	56.594		
2,100.0	2,093.4	2,068.6	2,064.0	4.4	4.2	160.65	31.2	-282.3	410.4	403.1	7.29	56.273		
2,200.0	2,192.8	2,167.0	2,162.1	4.6	4.5	161.09	33.0	-289.6	427.9	420.3	7.64	55.987		
2,300.0	2,292.3	2,265.4	2,260.2	4.9	4.7	161.50	34.9	-296.9	445.4	437.4	7.99	55.729		
2,400.0	2,391.7	2,363.8	2,358.3	5.1	4.9	161.87	36.7	-304.2	463.0	454.6	8.34	55.496		
2,500.0	2,491.2	2,462.2	2,456.4	5.4	5.1	162.22	38.5	-311.5	480.5	471.8	8.69	55.284		
2,600.0	2,590.6	2,560.6	2,554.6	5.6	5.3	162.55	40.3	-318.9	498.1	489.1	9.04	55.092		
2,700.0	2,690.1	2,659.0	2,652.7	5.9	5.5	162.85	42.1	-326.2	515.7	506.3	9.39	54.915		
2,800.0	2,789.5	2,757.4	2,750.8	6.1	5.8	163.13	44.0	-333.5	533.3	523.6	9.74	54.753		
2,900.0	2,889.0	2,855.9	2,848.9	6.4	6.0	163.39	45.8	-340.8	550.9	540.8	10.09	54.604		
3,000.0	2,988.4	2,954.3	2,947.0	6.6	6.2	163.64	47.6	-348.1	568.6	558.1	10.44	54.466		
3,100.0	3,087.9	3,052.7	3,045.1	6.9	6.4	163.87	49.4	-355.4	586.2	575.4	10.79	54.338		
3,200.0	3,187.3	3,151.1	3,143.3	7.2	6.6	164.09	51.2	-362.7	603.8	592.7	11.14	54.219		
3,300.0	3,286.8	3,249.5	3,241.4	7.4	6.8	164.30	53.0	-370.0	621.5	610.0	11.49	54.108		
3,400.0	3,386.2	3,347.9	3,339.5	7.7	7.1	164.50	54.9	-377.3	639.2	627.3	11.84	54.004		
3,500.0	3,485.7	3,446.3	3,437.6	7.9	7.3	164.68	56.7	-384.7	656.8	644.6	12.18	53.907		
3,600.0	3,585.1	3,544.7	3,535.7	8.2	7.5	164.86	58.5	-392.0	674.5	662.0	12.53	53.816		
3,700.0	3,684.6	3,643.1	3,633.8	8.4	7.7	165.02	60.3	-399.3	692.2	679.3	12.88	53.731		
3,800.0	3,784.0	3,741.5	3,732.0	8.7	7.9	165.18	62.1	-406.6	709.9	696.6	13.23	53.650		
3,900.0	3,883.5	3,839.9	3,830.1	8.9	8.1	165.33	63.9	-413.9	727.6	714.0	13.58	53.574		
4,000.0	3,982.9	3,938.3	3,928.2	9.2	8.3	165.47	65.8	-421.2	745.2	731.3	13.93	53.502		
4,100.0	4,082.4	4,036.7	4,026.3	9.4	8.6	165.61	67.6	-428.5	762.9	748.7	14.28	53.434		
4,200.0	4,181.8	4,135.1	4,124.4	9.7	8.8	165.74	69.4	-435.8	780.6	766.0	14.63	53.370		
4,300.0	4,281.3	4,233.5	4,222.5	9.9	9.0	165.86	71.2	-443.2	798.4	783.4	14.98	53.309		
4,400.0	4,380.7	4,331.9	4,320.7	10.2	9.2	165.98	73.0	-450.5	816.1	800.7	15.33	53.250		
4,500.0	4,480.2	4,430.3	4,418.8	10.4	9.4	166.10	74.9	-457.8	833.8	818.1	15.67	53.195		
4,600.0	4,579.6	4,528.7	4,516.9	10.7	9.6	166.21	76.7	-465.1	851.5	835.5	16.02	53.142		
4,700.0	4,679.1	4,627.1	4,615.0	10.9	9.9	166.31	78.5	-472.4	869.2	852.8	16.37	53.092		
4,800.0	4,778.5	4,725.6	4,713.1	11.2	10.1	166.41	80.3	-479.7	886.9	870.2	16.72	53.044		
4,900.0	4,878.0	4,824.0	4,811.2	11.4	10.3	166.51	82.1	-487.0	904.7	887.6	17.07	52.998		
5,000.0	4,977.4	4,922.4	4,909.4	11.7	10.5	166.60	83.9	-494.3	922.4	905.0	17.42	52.954		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4A-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,076.9	5,020.8	5,007.5	11.9	10.7	166.69	85.8	-501.6	940.1	922.4	17.77	52.912		
5,200.0	5,176.3	5,119.2	5,105.6	12.2	10.9	166.78	87.6	-509.0	957.8	939.7	18.12	52.872		
5,300.0	5,275.8	5,217.6	5,203.7	12.4	11.2	166.86	89.4	-516.3	975.6	957.1	18.47	52.833		
5,400.0	5,375.2	5,316.0	5,301.8	12.7	11.4	166.94	91.2	-523.6	993.3	974.5	18.81	52.796		
5,500.0	5,474.7	5,414.4	5,399.9	12.9	11.6	167.02	93.0	-530.9	1,011.1	991.9	19.16	52.761		
5,600.0	5,574.1	5,512.8	5,498.1	13.2	11.8	167.09	94.8	-538.2	1,028.8	1,009.3	19.51	52.726		
5,700.0	5,673.6	5,611.2	5,596.2	13.5	12.0	167.17	96.7	-545.5	1,046.5	1,026.7	19.86	52.693		
5,800.0	5,773.0	5,709.6	5,694.3	13.7	12.2	167.23	98.5	-552.8	1,064.3	1,044.1	20.21	52.661		
5,900.0	5,872.5	5,808.0	5,792.4	14.0	12.5	167.30	100.3	-560.1	1,082.0	1,061.5	20.56	52.631		
6,000.0	5,971.9	5,906.4	5,890.5	14.2	12.7	167.37	102.1	-567.5	1,099.8	1,078.9	20.91	52.601		
6,100.0	6,071.4	6,004.8	5,988.6	14.5	12.9	167.43	103.9	-574.8	1,117.5	1,096.3	21.26	52.573		
6,200.0	6,170.8	6,103.2	6,086.8	14.7	13.1	167.49	105.8	-582.1	1,135.3	1,113.7	21.61	52.545		
6,300.0	6,270.3	6,201.6	6,184.9	15.0	13.3	167.55	107.6	-589.4	1,153.0	1,131.1	21.95	52.518		
6,400.0	6,369.7	6,300.0	6,283.0	15.2	13.5	167.61	109.4	-596.7	1,170.8	1,148.5	22.30	52.493		
6,500.0	6,469.2	6,398.4	6,381.1	15.5	13.8	167.66	111.2	-604.0	1,188.5	1,165.9	22.65	52.468		
6,600.0	6,568.6	6,496.8	6,479.2	15.7	14.0	167.72	113.0	-611.3	1,206.3	1,183.3	23.00	52.444		
6,700.0	6,668.1	6,595.3	6,577.3	16.0	14.2	167.77	114.8	-618.6	1,224.0	1,200.7	23.35	52.420		
6,800.0	6,767.5	6,693.7	6,675.5	16.2	14.4	-175.05	116.7	-625.9	1,241.6	1,217.9	23.70	52.396		
6,900.0	6,867.0	6,933.5	6,912.0	16.4	14.8	-107.50	89.3	-643.3	1,251.5	1,227.1	24.42	51.251		
7,000.0	6,964.8	7,143.9	7,102.4	16.5	15.2	-94.97	2.4	-656.7	1,246.4	1,221.3	25.13	49.604		
7,100.0	7,059.3	7,258.2	7,192.7	16.5	15.5	-93.69	-67.1	-662.8	1,237.0	1,211.3	25.69	48.159		
7,200.0	7,148.4	7,311.7	7,231.0	16.5	15.7	-93.46	-104.3	-665.3	1,230.3	1,204.3	25.99	47.337		
7,263.4	7,201.3	7,326.7	7,241.2	16.4	15.7	-93.02	-115.3	-666.0	1,229.0	1,202.9	26.07	47.147 SF		
7,300.0	7,230.4	7,330.7	7,244.0	16.4	15.8	-92.62	-118.3	-666.2	1,229.4	1,203.4	26.07	47.167		
7,400.0	7,303.8	7,329.5	7,243.2	16.4	15.7	-90.97	-117.4	-666.1	1,235.3	1,209.3	25.99	47.534		
7,500.0	7,367.2	7,315.9	7,233.9	16.5	15.7	-88.61	-107.4	-665.5	1,247.6	1,221.8	25.85	48.269		
7,600.0	7,419.2	7,294.1	7,218.8	16.7	15.6	-85.69	-91.8	-664.5	1,265.7	1,240.0	25.73	49.193		
7,700.0	7,459.0	7,266.8	7,199.1	17.1	15.5	-82.36	-72.9	-663.2	1,288.3	1,262.6	25.70	50.121		
7,800.0	7,485.6	7,235.6	7,175.8	17.6	15.4	-78.81	-52.2	-661.7	1,314.3	1,288.5	25.81	50.932		
7,900.0	7,498.6	7,200.0	7,148.1	18.2	15.3	-75.15	-29.9	-659.8	1,342.4	1,316.4	26.04	51.553		
8,000.0	7,500.0	7,166.4	7,121.0	19.0	15.3	-72.97	-10.1	-658.0	1,372.1	1,345.7	26.42	51.937		
8,100.0	7,500.0	7,135.1	7,095.0	19.9	15.2	-71.86	7.1	-656.2	1,406.5	1,379.7	26.87	52.340		
8,200.0	7,500.0	7,100.0	7,064.9	20.9	15.1	-70.58	25.1	-654.1	1,446.0	1,418.7	27.33	52.907		
8,300.0	7,500.0	7,083.4	7,050.3	22.0	15.1	-69.97	33.1	-653.1	1,490.2	1,462.4	27.85	53.505		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4B-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-89.73	0.7	-150.0	150.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.73	0.7	-150.0	150.0	149.7	0.30	502.485		
200.0	200.0	201.0	201.0	0.3	0.3	-89.73	0.7	-150.0	150.0	149.3	0.65	231.604		
216.3	216.3	217.3	217.3	0.4	0.4	-89.73	0.7	-150.0	150.0	149.3	0.70	212.865 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.73	0.7	-150.0	150.0	149.0	0.99	150.751 ES		
400.0	400.0	398.2	398.2	0.7	0.7	-89.59	1.1	-150.9	150.9	149.6	1.34	112.555		
500.0	500.0	495.3	495.3	0.8	0.8	-89.20	2.1	-153.6	153.7	152.0	1.68	91.211		
600.0	600.0	593.9	593.8	1.0	1.0	147.08	3.8	-157.8	158.8	156.7	2.03	78.118		
700.0	700.0	693.7	693.4	1.2	1.2	148.11	5.6	-162.3	165.5	163.2	2.38	69.468		
800.0	799.9	793.2	792.9	1.4	1.4	149.34	7.3	-166.8	173.9	171.1	2.73	63.585		
900.0	899.7	892.7	892.1	1.6	1.6	150.72	9.1	-171.3	183.8	180.7	3.09	59.538		
1,000.0	999.4	991.9	991.2	1.8	1.8	152.18	10.8	-175.7	195.3	191.9	3.44	56.778		
1,100.0	1,098.9	1,090.8	1,090.1	2.0	2.0	153.69	12.6	-180.2	208.5	204.7	3.79	54.958		
1,200.0	1,198.4	1,189.7	1,188.8	2.2	2.2	155.16	14.3	-184.6	222.7	218.5	4.15	53.689		
1,300.0	1,297.8	1,288.5	1,287.5	2.5	2.4	156.46	16.1	-189.1	237.0	232.5	4.50	52.656		
1,400.0	1,397.3	1,387.3	1,386.3	2.7	2.5	157.61	17.8	-193.5	251.4	246.5	4.85	51.802		
1,500.0	1,496.7	1,486.2	1,485.0	2.9	2.7	158.64	19.6	-198.0	265.8	260.6	5.20	51.088		
1,600.0	1,596.1	1,585.0	1,583.7	3.2	2.9	159.56	21.3	-202.4	280.4	274.8	5.55	50.483		
1,700.0	1,695.6	1,683.9	1,682.4	3.4	3.1	160.39	23.1	-206.9	295.0	289.1	5.90	49.966		
1,800.0	1,795.0	1,782.7	1,781.2	3.7	3.3	161.14	24.8	-211.3	309.7	303.4	6.25	49.519		
1,900.0	1,894.5	1,881.5	1,879.9	3.9	3.5	161.82	26.6	-215.7	324.4	317.8	6.60	49.130		
2,000.0	1,993.9	1,980.4	1,978.6	4.2	3.7	162.44	28.3	-220.2	339.2	332.2	6.95	48.789		
2,100.0	2,093.4	2,079.2	2,077.3	4.4	3.9	163.02	30.1	-224.6	354.0	346.7	7.30	48.487		
2,200.0	2,192.8	2,178.1	2,176.0	4.6	4.1	163.54	31.8	-229.1	368.8	361.2	7.65	48.218		
2,300.0	2,292.3	2,276.9	2,274.8	4.9	4.3	164.03	33.5	-233.5	383.7	375.7	8.00	47.978		
2,400.0	2,391.7	2,375.7	2,373.5	5.1	4.5	164.48	35.3	-238.0	398.6	390.2	8.34	47.762		
2,500.0	2,491.2	2,474.6	2,472.2	5.4	4.6	164.89	37.0	-242.4	413.5	404.8	8.69	47.567		
2,600.0	2,590.6	2,573.4	2,570.9	5.6	4.8	165.28	38.8	-246.9	428.4	419.4	9.04	47.389		
2,700.0	2,690.1	2,672.3	2,669.7	5.9	5.0	165.64	40.5	-251.3	443.4	434.0	9.39	47.228		
2,800.0	2,789.5	2,771.1	2,768.4	6.1	5.2	165.98	42.3	-255.8	458.3	448.6	9.73	47.080		
2,900.0	2,889.0	2,869.9	2,867.1	6.4	5.4	166.30	44.0	-260.2	473.3	463.2	10.08	46.944		
3,000.0	2,988.4	2,968.8	2,965.8	6.6	5.6	166.59	45.8	-264.7	488.3	477.9	10.43	46.818		
3,100.0	3,087.9	3,067.6	3,064.6	6.9	5.8	166.87	47.5	-269.1	503.3	492.5	10.78	46.702		
3,200.0	3,187.3	3,166.5	3,163.3	7.2	6.0	167.14	49.3	-273.5	518.3	507.2	11.12	46.595		
3,300.0	3,286.8	3,265.3	3,262.0	7.4	6.2	167.39	51.0	-278.0	533.3	521.9	11.47	46.495		
3,400.0	3,386.2	3,364.1	3,360.7	7.7	6.4	167.62	52.8	-282.4	548.4	536.5	11.82	46.402		
3,500.0	3,485.7	3,463.0	3,459.5	7.9	6.6	167.84	54.5	-286.9	563.4	551.2	12.16	46.316		
3,600.0	3,585.1	3,561.8	3,558.2	8.2	6.8	168.05	56.3	-291.3	578.4	565.9	12.51	46.234		
3,700.0	3,684.6	3,660.6	3,656.9	8.4	6.9	168.25	58.0	-295.8	593.5	580.6	12.86	46.158		
3,800.0	3,784.0	3,759.5	3,755.6	8.7	7.1	168.44	59.7	-300.2	608.6	595.4	13.20	46.087		
3,900.0	3,883.5	3,858.3	3,854.4	8.9	7.3	168.63	61.5	-304.7	623.6	610.1	13.55	46.019		
4,000.0	3,982.9	3,957.2	3,953.1	9.2	7.5	168.80	63.2	-309.1	638.7	624.8	13.90	45.956		
4,100.0	4,082.4	4,056.0	4,051.8	9.4	7.7	168.96	65.0	-313.6	653.8	639.5	14.25	45.895		
4,200.0	4,181.8	4,154.8	4,150.5	9.7	7.9	169.12	66.7	-318.0	668.9	654.3	14.59	45.839		
4,300.0	4,281.3	4,253.7	4,249.2	9.9	8.1	169.27	68.5	-322.4	684.0	669.0	14.94	45.785		
4,400.0	4,380.7	4,352.5	4,348.0	10.2	8.3	169.41	70.2	-326.9	699.1	683.8	15.29	45.734		
4,500.0	4,480.2	4,451.4	4,446.7	10.4	8.5	169.55	72.0	-331.3	714.2	698.5	15.63	45.685		
4,600.0	4,579.6	4,550.2	4,545.4	10.7	8.7	169.68	73.7	-335.8	729.3	713.3	15.98	45.639		
4,700.0	4,679.1	4,649.0	4,644.1	10.9	8.9	169.81	75.5	-340.2	744.4	728.0	16.33	45.595		
4,800.0	4,778.5	4,747.9	4,742.9	11.2	9.0	169.93	77.2	-344.7	759.5	742.8	16.67	45.553		
4,900.0	4,878.0	4,846.7	4,841.6	11.4	9.2	170.05	79.0	-349.1	774.6	757.6	17.02	45.513		
5,000.0	4,977.4	4,945.6	4,940.3	11.7	9.4	170.16	80.7	-353.6	789.7	772.3	17.37	45.475		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,076.9	5,044.4	5,039.0	11.9	9.6	170.27	82.4	-358.0	804.8	787.1	17.71	45.438		
5,200.0	5,176.3	5,143.2	5,137.8	12.2	9.8	170.37	84.2	-362.5	820.0	801.9	18.06	45.403		
5,300.0	5,275.8	5,242.1	5,236.5	12.4	10.0	170.47	85.9	-366.9	835.1	816.7	18.41	45.370		
5,400.0	5,375.2	5,340.9	5,335.2	12.7	10.2	170.57	87.7	-371.4	850.2	831.4	18.75	45.337		
5,500.0	5,474.7	5,439.8	5,433.9	12.9	10.4	170.66	89.4	-375.8	865.3	846.2	19.10	45.307		
5,600.0	5,574.1	5,538.6	5,532.7	13.2	10.6	170.75	91.2	-380.2	880.5	861.0	19.45	45.277		
5,700.0	5,673.6	5,637.4	5,631.4	13.5	10.8	170.84	92.9	-384.7	895.6	875.8	19.79	45.248		
5,800.0	5,773.0	5,736.3	5,730.1	13.7	11.0	170.92	94.7	-389.1	910.7	890.6	20.14	45.221		
5,900.0	5,872.5	5,835.1	5,828.8	14.0	11.2	171.01	96.4	-393.6	925.9	905.4	20.49	45.194		
6,000.0	5,971.9	5,934.0	5,927.6	14.2	11.3	171.09	98.2	-398.0	941.0	920.2	20.83	45.169		
6,100.0	6,071.4	6,032.8	6,026.3	14.5	11.5	171.16	99.9	-402.5	956.1	935.0	21.18	45.144		
6,200.0	6,170.8	6,131.6	6,125.0	14.7	11.7	171.24	101.7	-406.9	971.3	949.8	21.53	45.121		
6,300.0	6,270.3	6,230.5	6,223.7	15.0	11.9	171.31	103.4	-411.4	986.4	964.6	21.87	45.098		
6,400.0	6,369.7	6,329.3	6,322.4	15.2	12.1	171.38	105.2	-415.8	1,001.6	979.4	22.22	45.076		
6,500.0	6,469.2	6,428.1	6,421.2	15.5	12.3	171.44	106.9	-420.3	1,016.7	994.2	22.57	45.054		
6,600.0	6,568.6	6,527.0	6,519.9	15.7	12.5	171.51	108.6	-424.7	1,031.9	1,009.0	22.91	45.033		
6,700.0	6,668.1	6,625.8	6,618.6	16.0	12.7	171.57	110.4	-429.2	1,047.0	1,023.8	23.26	45.013		
6,800.0	6,767.5	6,724.7	6,717.4	16.2	12.9	-171.29	112.1	-433.6	1,062.0	1,038.4	23.61	44.990		
6,900.0	6,867.0	6,823.7	6,816.3	16.4	13.1	-101.79	113.9	-438.1	1,072.8	1,048.9	23.94	44.819		
7,000.0	6,964.8	6,921.4	6,913.8	16.5	13.3	-83.99	115.6	-442.4	1,077.7	1,053.5	24.25	44.433		
7,100.0	7,059.3	7,053.1	7,045.3	16.5	13.5	-80.13	115.3	-448.3	1,076.9	1,052.3	24.66	43.668		
7,200.0	7,148.4	7,230.9	7,219.3	16.5	13.8	-83.65	81.2	-455.7	1,066.0	1,040.9	25.15	42.392		
7,300.0	7,230.4	7,331.0	7,311.8	16.4	13.9	-87.53	43.5	-459.4	1,051.7	1,026.2	25.49	41.259		
7,400.0	7,303.8	7,380.0	7,355.0	16.4	14.0	-89.78	20.4	-461.1	1,041.1	1,015.4	25.76	40.422		
7,495.5	7,364.6	7,398.0	7,370.4	16.5	14.0	-90.33	11.2	-461.6	1,037.5	1,011.6	25.93	40.007		
7,500.0	7,367.2	7,398.4	7,370.7	16.5	14.0	-90.32	11.0	-461.6	1,037.5	1,011.6	25.94	40.002		
7,600.0	7,419.2	7,397.9	7,370.4	16.7	14.0	-89.44	11.2	-461.6	1,042.0	1,015.9	26.09	39.943 SF		
7,700.0	7,459.0	7,385.6	7,359.8	17.1	14.0	-87.45	17.6	-461.2	1,054.3	1,028.1	26.24	40.182		
7,800.0	7,485.6	7,365.2	7,342.1	17.6	13.9	-84.60	27.7	-460.6	1,073.7	1,047.3	26.43	40.626		
7,900.0	7,498.6	7,339.3	7,319.3	18.2	13.9	-81.17	39.8	-459.7	1,098.8	1,072.1	26.70	41.160		
8,000.0	7,500.0	7,310.7	7,293.5	19.0	13.9	-78.77	52.2	-458.7	1,128.7	1,101.7	27.02	41.778		
8,100.0	7,500.0	7,285.8	7,270.7	19.9	13.8	-77.56	62.2	-457.8	1,165.1	1,137.8	27.37	42.573		
8,200.0	7,500.0	7,264.4	7,250.8	20.9	13.8	-76.52	70.1	-457.0	1,208.0	1,180.3	27.73	43.563		
8,300.0	7,500.0	7,250.0	7,237.3	22.0	13.8	-75.81	75.1	-456.4	1,256.8	1,228.7	28.10	44.725		
8,400.0	7,500.0	7,229.8	7,218.2	23.2	13.8	-74.82	81.6	-455.7	1,311.0	1,282.6	28.44	46.105		
8,500.0	7,500.0	7,215.6	7,204.7	24.4	13.7	-74.12	85.9	-455.1	1,370.1	1,341.3	28.77	47.627		
8,600.0	7,500.0	7,200.0	7,189.7	25.7	13.7	-73.35	90.2	-454.5	1,433.4	1,404.3	29.07	49.309		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		
0.0	0.0	1.0	1.0	0.0	0.0	-89.73	0.7	-139.9	139.9					
100.0	100.0	101.0	101.0	0.1	0.2	-89.73	0.7	-139.9	139.9	139.6	0.30	468.736		
200.0	200.0	201.0	201.0	0.3	0.3	-89.73	0.7	-139.9	139.9	139.2	0.65	216.048		
216.3	216.3	217.3	217.3	0.4	0.4	-89.73	0.7	-139.9	139.9	139.2	0.70	198.568 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.73	0.7	-139.9	139.9	138.9	0.99	140.627 ES		
400.0	400.0	399.0	399.0	0.7	0.7	-89.53	1.1	-140.6	140.6	139.3	1.34	104.764		
500.0	500.0	497.9	497.9	0.8	0.8	-89.01	2.5	-142.6	142.6	140.9	1.69	84.376		
600.0	600.0	597.9	597.8	1.0	1.0	147.28	3.9	-144.7	145.5	143.5	2.04	71.327		
700.0	700.0	697.7	697.6	1.2	1.2	148.33	5.4	-146.9	150.0	147.6	2.39	62.717		
800.0	799.9	797.5	797.3	1.4	1.4	149.64	6.8	-149.0	155.9	153.2	2.74	56.855		
900.0	899.7	897.1	896.9	1.6	1.6	151.14	8.3	-151.1	163.5	160.4	3.10	52.822		
1,000.0	999.4	996.6	996.4	1.8	1.7	152.76	9.7	-153.3	172.7	169.3	3.45	50.077		
1,100.0	1,098.9	1,095.8	1,095.6	2.0	1.9	154.45	11.2	-155.4	183.7	179.9	3.80	48.276		
1,200.0	1,198.4	1,195.0	1,194.7	2.2	2.1	156.09	12.6	-157.6	195.6	191.4	4.16	47.027		
1,300.0	1,297.8	1,294.1	1,293.8	2.5	2.3	157.55	14.1	-159.7	207.6	203.1	4.51	46.014		
1,400.0	1,397.3	1,393.2	1,392.9	2.7	2.5	158.84	15.5	-161.8	219.7	214.9	4.86	45.181		
1,500.0	1,496.7	1,492.4	1,492.0	2.9	2.6	160.01	17.0	-164.0	232.0	226.8	5.21	44.487		
1,600.0	1,596.1	1,591.5	1,591.1	3.2	2.8	161.05	18.4	-166.1	244.3	238.8	5.57	43.901		
1,700.0	1,695.6	1,690.7	1,690.2	3.4	3.0	161.99	19.9	-168.2	256.7	250.8	5.92	43.403		
1,800.0	1,795.0	1,789.8	1,789.3	3.7	3.2	162.85	21.3	-170.4	269.2	262.9	6.26	42.974		
1,900.0	1,894.5	1,889.0	1,888.4	3.9	3.3	163.63	22.8	-172.5	281.7	275.1	6.61	42.601		
2,000.0	1,993.9	1,988.1	1,987.6	4.2	3.5	164.34	24.2	-174.6	294.3	287.3	6.96	42.275		
2,100.0	2,093.4	2,087.2	2,086.7	4.4	3.7	165.00	25.7	-176.8	306.9	299.6	7.31	41.988		
2,200.0	2,192.8	2,186.4	2,185.8	4.6	3.9	165.60	27.1	-178.9	319.6	311.9	7.66	41.734		
2,300.0	2,292.3	2,285.5	2,284.9	4.9	4.1	166.16	28.6	-181.0	332.2	324.2	8.00	41.506		
2,400.0	2,391.7	2,384.7	2,384.0	5.1	4.2	166.68	30.0	-183.2	344.9	336.6	8.35	41.303		
2,500.0	2,491.2	2,483.8	2,483.1	5.4	4.4	167.16	31.5	-185.3	357.7	349.0	8.70	41.119		
2,600.0	2,590.6	2,583.0	2,582.2	5.6	4.6	167.60	32.9	-187.5	370.4	361.4	9.05	40.953		
2,700.0	2,690.1	2,682.1	2,681.3	5.9	4.8	168.02	34.4	-189.6	383.2	373.8	9.39	40.801		
2,800.0	2,789.5	2,781.2	2,780.4	6.1	5.0	168.41	35.8	-191.7	396.0	386.3	9.74	40.663		
2,900.0	2,889.0	2,880.4	2,879.5	6.4	5.1	168.78	37.2	-193.9	408.8	398.8	10.09	40.536		
3,000.0	2,988.4	2,979.5	2,978.6	6.6	5.3	169.12	38.7	-196.0	421.7	411.2	10.43	40.420		
3,100.0	3,087.9	3,078.7	3,077.8	6.9	5.5	169.44	40.1	-198.1	434.5	423.7	10.78	40.312		
3,200.0	3,187.3	3,177.8	3,176.9	7.2	5.7	169.75	41.6	-200.3	447.4	436.2	11.13	40.213		
3,300.0	3,286.8	3,277.0	3,276.0	7.4	5.8	170.04	43.0	-202.4	460.2	448.8	11.47	40.121		
3,400.0	3,386.2	3,376.1	3,375.1	7.7	6.0	170.31	44.5	-204.5	473.1	461.3	11.82	40.035		
3,500.0	3,485.7	3,475.2	3,474.2	7.9	6.2	170.57	45.9	-206.7	486.0	473.8	12.16	39.955		
3,600.0	3,585.1	3,574.4	3,573.3	8.2	6.4	170.81	47.4	-208.8	498.9	486.4	12.51	39.880		
3,700.0	3,684.6	3,673.5	3,672.4	8.4	6.6	171.04	48.8	-210.9	511.8	499.0	12.86	39.810		
3,800.0	3,784.0	3,772.7	3,771.5	8.7	6.7	171.26	50.3	-213.1	524.7	511.5	13.20	39.744		
3,900.0	3,883.5	3,871.8	3,870.6	8.9	6.9	171.47	51.7	-215.2	537.7	524.1	13.55	39.682		
4,000.0	3,982.9	3,970.9	3,969.7	9.2	7.1	171.67	53.2	-217.3	550.6	536.7	13.90	39.624		
4,100.0	4,082.4	4,070.1	4,068.8	9.4	7.3	171.86	54.6	-219.5	563.5	549.3	14.24	39.569		
4,200.0	4,181.8	4,169.2	4,168.0	9.7	7.5	172.05	56.1	-221.6	576.5	561.9	14.59	39.517		
4,300.0	4,281.3	4,268.4	4,267.1	9.9	7.6	172.22	57.5	-223.8	589.4	574.5	14.93	39.467		
4,400.0	4,380.7	4,367.5	4,366.2	10.2	7.8	172.39	59.0	-225.9	602.4	587.1	15.28	39.421		
4,500.0	4,480.2	4,466.7	4,465.3	10.4	8.0	172.55	60.4	-228.0	615.3	599.7	15.63	39.377		
4,600.0	4,579.6	4,565.8	4,564.4	10.7	8.2	172.70	61.9	-230.2	628.3	612.3	15.97	39.334		
4,700.0	4,679.1	4,664.9	4,663.5	10.9	8.4	172.85	63.3	-232.3	641.2	624.9	16.32	39.294		
4,800.0	4,778.5	4,764.1	4,762.6	11.2	8.5	172.99	64.7	-234.4	654.2	637.5	16.67	39.256		
4,900.0	4,878.0	4,863.2	4,861.7	11.4	8.7	173.12	66.2	-236.6	667.2	650.2	17.01	39.220		
5,000.0	4,977.4	4,962.4	4,960.8	11.7	8.9	173.25	67.6	-238.7	680.2	662.8	17.36	39.185		

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4C-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,100.0	5,076.9	5,061.5	5,059.9	11.9	9.1	173.38	69.1	-240.8	693.1	675.4	17.70	39.152		
5,200.0	5,176.3	5,160.7	5,159.1	12.2	9.2	173.50	70.5	-243.0	706.1	688.1	18.05	39.120		
5,300.0	5,275.8	5,259.8	5,258.2	12.4	9.4	173.62	72.0	-245.1	719.1	700.7	18.40	39.090		
5,400.0	5,375.2	5,358.9	5,357.3	12.7	9.6	173.73	73.4	-247.2	732.1	713.4	18.74	39.060		
5,500.0	5,474.7	5,458.1	5,456.4	12.9	9.8	173.84	74.9	-249.4	745.1	726.0	19.09	39.032		
5,600.0	5,574.1	5,557.2	5,555.5	13.2	10.0	173.94	76.3	-251.5	758.1	738.7	19.44	39.006		
5,700.0	5,673.6	5,656.4	5,654.6	13.5	10.1	174.05	77.8	-253.6	771.1	751.3	19.78	38.980		
5,800.0	5,773.0	5,755.5	5,753.7	13.7	10.3	174.14	79.2	-255.8	784.1	764.0	20.13	38.955		
5,900.0	5,872.5	5,854.7	5,852.8	14.0	10.5	174.24	80.7	-257.9	797.1	776.6	20.47	38.931		
6,000.0	5,971.9	5,953.8	5,951.9	14.2	10.7	174.33	82.1	-260.1	810.1	789.3	20.82	38.908		
6,100.0	6,071.4	6,052.9	6,051.0	14.5	10.9	174.42	83.6	-262.2	823.1	801.9	21.17	38.886		
6,200.0	6,170.8	6,152.1	6,150.1	14.7	11.0	174.51	85.0	-264.3	836.1	814.6	21.51	38.864		
6,300.0	6,270.3	6,251.2	6,249.3	15.0	11.2	174.59	86.5	-266.5	849.1	827.3	21.86	38.844		
6,400.0	6,369.7	6,350.4	6,348.4	15.2	11.4	174.67	87.9	-268.6	862.1	839.9	22.21	38.824		
6,500.0	6,469.2	6,449.5	6,447.5	15.5	11.6	174.75	89.3	-270.7	875.1	852.6	22.55	38.804		
6,600.0	6,568.6	6,548.7	6,546.6	15.7	11.7	174.82	90.8	-272.9	888.1	865.3	22.90	38.786		
6,700.0	6,668.1	6,647.8	6,645.7	16.0	11.9	174.90	92.2	-275.0	901.2	877.9	23.25	38.768		
6,800.0	6,767.5	6,820.3	6,817.8	16.2	12.2	-168.59	85.4	-278.6	912.3	888.5	23.75	38.412		
6,900.0	6,867.0	7,058.6	7,043.4	16.4	12.5	-105.28	12.3	-282.8	905.1	880.8	24.26	37.307		
7,000.0	6,964.8	7,212.2	7,171.0	16.5	12.9	-95.08	-72.6	-284.8	885.3	860.4	24.88	35.583		
7,100.0	7,059.3	7,294.5	7,231.1	16.5	13.2	-95.09	-128.8	-285.6	865.0	839.5	25.55	33.856		
7,200.0	7,148.4	7,332.5	7,256.5	16.5	13.4	-95.54	-157.0	-285.9	851.4	825.4	26.04	32.698		
7,283.5	7,217.4	7,343.4	7,263.6	16.4	13.4	-95.03	-165.3	-286.0	847.7	821.4	26.23	32.313		
7,300.0	7,230.4	7,344.0	7,264.0	16.4	13.4	-94.82	-165.8	-286.0	847.8	821.6	26.24	32.305 SF		
7,400.0	7,303.8	7,339.2	7,260.9	16.4	13.4	-92.79	-162.0	-286.0	855.1	828.9	26.20	32.641		
7,500.0	7,367.2	7,323.8	7,250.8	16.5	13.3	-89.60	-150.4	-285.8	872.6	846.7	25.98	33.588		
7,600.0	7,419.2	7,300.0	7,234.9	16.7	13.2	-85.41	-132.8	-285.7	899.0	873.3	25.69	34.997		
7,700.0	7,459.0	7,273.8	7,216.6	17.1	13.1	-80.74	-114.0	-285.4	932.2	906.7	25.45	36.622		
7,800.0	7,485.6	7,250.0	7,199.4	17.6	13.0	-76.06	-97.6	-285.2	970.1	944.8	25.34	38.282		
7,900.0	7,498.6	7,200.0	7,161.6	18.2	12.9	-70.14	-64.9	-284.7	1,010.8	985.6	25.20	40.109		
8,000.0	7,500.0	7,174.0	7,141.0	19.0	12.8	-67.52	-49.0	-284.4	1,053.2	1,027.9	25.34	41.572		
8,100.0	7,500.0	7,150.0	7,121.5	19.9	12.7	-66.42	-35.0	-284.1	1,100.9	1,075.4	25.51	43.152		
8,200.0	7,500.0	7,115.0	7,092.3	20.9	12.7	-64.82	-15.7	-283.6	1,153.8	1,128.2	25.66	44.968		
8,300.0	7,500.0	7,100.0	7,079.5	22.0	12.6	-64.13	-7.9	-283.4	1,211.6	1,185.7	25.91	46.760		
8,400.0	7,500.0	7,068.2	7,051.9	23.2	12.6	-62.66	7.8	-283.0	1,273.6	1,247.5	26.09	48.808		
8,500.0	7,500.0	7,050.0	7,035.7	24.4	12.5	-61.82	16.2	-282.7	1,339.5	1,313.2	26.32	50.898		
8,600.0	7,500.0	7,030.6	7,018.3	25.7	12.5	-60.93	24.7	-282.4	1,408.8	1,382.3	26.53	53.097		
8,700.0	7,500.0	7,000.0	6,990.3	27.1	12.5	-59.53	37.2	-281.9	1,481.4	1,454.7	26.70	55.489		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-89.73	0.6	-129.8	129.8					
100.0	100.0	101.0	101.0	0.1	0.2	-89.73	0.6	-129.8	129.8	129.5	0.30	434.987		
200.0	200.0	201.0	201.0	0.3	0.3	-89.73	0.6	-129.8	129.8	129.2	0.65	200.493		
300.0	300.0	301.0	301.0	0.5	0.5	-89.73	0.6	-129.8	129.8	128.8	1.00	130.268		
400.0	400.0	401.0	401.0	0.7	0.7	-89.73	0.6	-129.8	129.8	128.5	1.35	96.473		
500.0	500.0	503.3	503.3	0.8	0.9	-89.73	0.6	-128.9	128.9	127.2	1.70	75.893		
600.0	600.0	605.6	605.5	1.0	1.0	146.07	0.6	-126.1	126.9	124.9	2.05	61.886		
700.0	700.0	707.8	707.7	1.2	1.2	146.78	0.6	-121.6	124.6	122.2	2.40	51.847		
800.0	799.9	808.2	807.9	1.4	1.4	147.96	0.6	-115.8	122.6	119.8	2.76	44.483		
883.0	882.7	891.1	890.7	1.5	1.6	149.28	0.5	-111.1	122.1	119.0	3.05	40.022 CC		
900.0	899.7	908.2	907.7	1.6	1.6	149.59	0.5	-110.1	122.1	119.0	3.11	39.256 ES		
1,000.0	999.4	1,008.1	1,007.4	1.8	1.8	151.61	0.5	-104.3	123.2	119.7	3.47	35.545		
1,100.0	1,098.9	1,107.9	1,107.1	2.0	2.0	153.93	0.5	-98.6	126.0	122.2	3.82	32.960		
1,200.0	1,198.4	1,207.7	1,206.7	2.2	2.2	156.32	0.5	-92.8	129.9	125.7	4.18	31.068		
1,300.0	1,297.8	1,307.5	1,306.3	2.5	2.4	158.58	0.5	-87.1	133.9	129.4	4.54	29.527		
1,400.0	1,397.3	1,407.2	1,405.9	2.7	2.6	160.69	0.5	-81.4	138.2	133.3	4.89	28.254		
1,500.0	1,496.7	1,507.0	1,505.5	2.9	2.8	162.68	0.4	-75.6	142.6	137.4	5.24	27.191		
1,600.0	1,596.1	1,606.8	1,605.2	3.2	3.0	164.55	0.4	-69.9	147.2	141.6	5.60	26.292		
1,700.0	1,695.6	1,706.6	1,704.8	3.4	3.2	166.30	0.4	-64.1	151.9	146.0	5.95	25.524		
1,800.0	1,795.0	1,806.4	1,804.4	3.7	3.4	167.94	0.4	-58.4	156.8	150.5	6.31	24.863		
1,900.0	1,894.5	1,906.1	1,904.0	3.9	3.6	169.49	0.4	-52.7	161.8	155.2	6.66	24.289		
2,000.0	1,993.9	2,005.9	2,003.6	4.2	3.8	170.94	0.3	-46.9	166.9	159.9	7.02	23.786		
2,100.0	2,093.4	2,105.7	2,103.3	4.4	4.0	172.30	0.3	-41.2	172.1	164.8	7.37	23.342		
2,200.0	2,192.8	2,205.5	2,202.9	4.6	4.2	173.59	0.3	-35.4	177.4	169.7	7.73	22.949		
2,300.0	2,292.3	2,305.3	2,302.5	4.9	4.4	174.79	0.3	-29.7	182.8	174.7	8.09	22.597		
2,400.0	2,391.7	2,405.1	2,402.1	5.1	4.6	175.93	0.3	-24.0	188.3	179.8	8.45	22.282		
2,500.0	2,491.2	2,504.8	2,501.7	5.4	4.8	177.01	0.2	-18.2	193.8	185.0	8.81	21.997		
2,600.0	2,590.6	2,604.6	2,601.3	5.6	5.0	178.02	0.2	-12.5	199.4	190.2	9.17	21.739		
2,700.0	2,690.1	2,704.4	2,701.0	5.9	5.2	178.98	0.2	-6.7	205.1	195.5	9.54	21.504		
2,800.0	2,789.5	2,804.2	2,800.6	6.1	5.4	179.89	0.2	-1.0	210.8	200.9	9.90	21.290		
2,900.0	2,889.0	2,904.0	2,900.2	6.4	5.6	-179.25	0.2	4.7	216.5	206.3	10.27	21.093		
3,000.0	2,988.4	3,003.8	2,999.8	6.6	5.8	-178.44	0.2	10.5	222.3	211.7	10.63	20.912		
3,100.0	3,087.9	3,103.5	3,099.4	6.9	6.0	-177.66	0.1	16.2	228.2	217.2	11.00	20.745		
3,200.0	3,187.3	3,203.3	3,199.0	7.2	6.2	-176.93	0.1	22.0	234.1	222.7	11.37	20.590		
3,300.0	3,286.8	3,303.1	3,298.7	7.4	6.4	-176.23	0.1	27.7	240.0	228.2	11.74	20.446		
3,400.0	3,386.2	3,402.9	3,398.3	7.7	6.6	-175.57	0.1	33.4	245.9	233.8	12.11	20.312		
3,500.0	3,485.7	3,502.7	3,497.9	7.9	6.8	-174.93	0.1	39.2	251.9	239.4	12.48	20.188		
3,600.0	3,585.1	3,602.5	3,597.5	8.2	7.0	-174.33	0.0	44.9	257.9	245.1	12.85	20.071		
3,700.0	3,684.6	3,702.2	3,697.1	8.4	7.2	-173.75	0.0	50.7	264.0	250.8	13.22	19.962		
3,800.0	3,784.0	3,802.0	3,796.8	8.7	7.4	-173.20	0.0	56.4	270.1	256.5	13.60	19.859		
3,900.0	3,883.5	3,901.8	3,896.4	8.9	7.6	-172.68	0.0	62.1	276.1	262.2	13.97	19.763		
4,000.0	3,982.9	4,001.6	3,996.0	9.2	7.8	-172.17	0.0	67.9	282.3	267.9	14.35	19.672		
4,100.0	4,082.4	4,101.4	4,095.6	9.4	8.0	-171.69	0.0	73.6	288.4	273.7	14.72	19.586		
4,200.0	4,181.8	4,201.2	4,195.2	9.7	8.2	-171.23	-0.1	79.4	294.6	279.4	15.10	19.505		
4,300.0	4,281.3	4,300.9	4,294.8	9.9	8.4	-170.79	-0.1	85.1	300.7	285.2	15.48	19.429		
4,400.0	4,380.7	4,400.7	4,394.5	10.2	8.6	-170.36	-0.1	90.8	306.9	291.1	15.86	19.356		
4,500.0	4,480.2	4,500.5	4,494.1	10.4	8.8	-169.95	-0.1	96.6	313.1	296.9	16.23	19.287		
4,600.0	4,579.6	4,600.3	4,593.7	10.7	9.0	-169.56	-0.1	102.3	319.3	302.7	16.61	19.222		
4,700.0	4,679.1	4,700.1	4,693.3	10.9	9.2	-169.18	-0.2	108.1	325.6	308.6	16.99	19.159		
4,800.0	4,778.5	4,799.9	4,792.9	11.2	9.4	-168.82	-0.2	113.8	331.8	314.5	17.37	19.100		
4,900.0	4,878.0	4,899.6	4,892.5	11.4	9.6	-168.47	-0.2	119.5	338.1	320.3	17.75	19.043		
5,000.0	4,977.4	4,999.4	4,992.2	11.7	9.8	-168.13	-0.2	125.3	344.4	326.2	18.13	18.989		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4D-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)				Between Centres (ft)	Between Ellipses (ft)	
5,100.0	5,076.9	5,099.2	5,091.8	11.9	10.0	-167.81	-0.2	131.0	350.7	332.1	18.52	18.938		
5,200.0	5,176.3	5,199.0	5,191.4	12.2	10.2	-167.50	-0.2	136.7	357.0	338.1	18.90	18.889		
5,300.0	5,275.8	5,298.8	5,291.0	12.4	10.4	-167.19	-0.3	142.5	363.3	344.0	19.28	18.841		
5,400.0	5,375.2	5,398.5	5,390.6	12.7	10.6	-166.90	-0.3	148.2	369.6	349.9	19.66	18.796		
5,500.0	5,474.7	5,498.3	5,490.3	12.9	10.8	-166.62	-0.3	154.0	375.9	355.9	20.05	18.753		
5,600.0	5,574.1	5,598.1	5,589.9	13.2	11.0	-166.34	-0.3	159.7	382.2	361.8	20.43	18.711		
5,700.0	5,673.6	5,697.9	5,689.5	13.5	11.2	-166.08	-0.3	165.4	388.6	367.8	20.81	18.671		
5,800.0	5,773.0	5,797.7	5,789.1	13.7	11.4	-165.82	-0.4	171.2	394.9	373.7	21.20	18.633		
5,900.0	5,872.5	5,897.5	5,888.7	14.0	11.6	-165.58	-0.4	176.9	401.3	379.7	21.58	18.596		
6,000.0	5,971.9	5,997.2	5,988.3	14.2	11.8	-165.34	-0.4	182.7	407.7	385.7	21.96	18.561		
6,100.0	6,071.4	6,097.0	6,088.0	14.5	12.0	-165.10	-0.4	188.4	414.0	391.7	22.35	18.526		
6,200.0	6,170.8	6,196.8	6,187.6	14.7	12.2	-164.88	-0.4	194.1	420.4	397.7	22.73	18.494		
6,300.0	6,270.3	6,296.6	6,287.2	15.0	12.4	-164.66	-0.4	199.9	426.8	403.7	23.12	18.462		
6,400.0	6,369.7	6,396.4	6,386.8	15.2	12.6	-164.45	-0.5	205.6	433.2	409.7	23.50	18.431		
6,500.0	6,469.2	6,496.2	6,486.4	15.5	12.8	-164.24	-0.5	211.4	439.6	415.7	23.89	18.402		
6,600.0	6,568.6	6,595.9	6,586.0	15.7	13.0	-164.04	-0.5	217.1	446.0	421.7	24.27	18.373		
6,700.0	6,668.1	6,695.7	6,685.7	16.0	13.2	-163.85	-0.5	222.8	452.4	427.7	24.66	18.345		
6,800.0	6,767.5	6,795.5	6,785.3	16.2	13.4	-163.67	-0.5	228.6	458.5	433.5	25.05	18.308		
6,900.0	6,867.0	6,895.3	6,884.9	16.4	13.6	-163.50	-0.6	234.3	464.7	439.6	25.44	18.272		
7,000.0	6,966.4	6,994.5	6,983.0	16.5	13.8	-163.34	-0.6	240.0	470.9	445.7	25.83	18.237		
7,100.0	7,065.9	7,144.9	7,133.2	16.5	14.1	-163.19	-13.7	245.8	477.1	451.8	26.22	18.202		
7,200.0	7,165.4	7,244.9	7,233.2	16.5	14.4	-163.04	-45.0	251.6	483.3	457.9	26.61	18.167		
7,300.0	7,264.9	7,344.4	7,333.2	16.4	14.6	-162.89	-73.3	257.4	489.5	464.1	27.00	18.132		
7,400.0	7,364.4	7,443.9	7,432.4	16.4	14.7	-162.74	-91.5	263.2	495.7	470.9	27.39	18.097		
7,440.3	7,330.7	7,381.4	7,353.5	16.5	14.7	-162.60	-96.0	261.3	493.6	468.8	26.03	11.895 SF		
7,500.0	7,367.2	7,389.2	7,360.2	16.5	14.7	-162.46	-99.9	261.7	491.2	466.4	26.37	11.951		
7,600.0	7,419.2	7,390.7	7,361.5	16.7	14.7	-162.32	-100.6	261.8	489.1	464.3	26.76	12.993		
7,700.0	7,459.0	7,381.5	7,353.6	17.1	14.7	-162.18	-96.0	261.3	487.0	462.2	26.93	14.942		
7,800.0	7,485.6	7,364.8	7,339.0	17.6	14.7	-162.04	-87.9	260.5	484.9	460.1	27.05	17.376		
7,900.0	7,498.6	7,350.0	7,326.0	18.2	14.6	-161.90	-80.9	259.7	482.8	458.0	27.35	19.883		
8,000.0	7,500.0	7,317.5	7,296.8	19.0	14.5	-161.76	-66.6	258.1	480.7	456.0	27.42	22.607		
8,100.0	7,500.0	7,300.0	7,280.9	19.9	14.5	-161.62	-59.5	257.1	478.6	454.0	27.73	25.259		
8,200.0	7,500.0	7,275.5	7,258.3	20.9	14.4	-161.48	-50.1	255.8	476.5	452.0	27.89	28.121		
8,300.0	7,500.0	7,250.0	7,234.4	22.0	14.4	-161.34	-41.2	254.5	474.4	450.0	28.02	31.083		
8,400.0	7,500.0	7,250.0	7,234.4	23.2	14.4	-161.20	-41.2	254.5	472.3	448.0	28.41	33.772		
8,500.0	7,500.0	7,229.8	7,215.3	24.4	14.3	-161.06	-34.8	253.4	470.2	446.0	28.55	36.763		
8,600.0	7,500.0	7,217.7	7,203.8	25.7	14.3	-160.92	-31.2	252.7	468.1	444.0	28.75	39.683		
8,700.0	7,500.0	7,200.0	7,186.8	27.1	14.2	-160.78	-26.3	251.7	466.0	442.0	28.89	42.695		
8,800.0	7,500.0	7,200.0	7,186.8	28.5	14.2	-160.64	-26.3	251.7	463.9	440.0	29.16	45.503		
8,900.0	7,500.0	7,200.0	7,186.8	29.9	14.2	-160.50	-26.3	251.7	461.8	438.0	29.41	48.329		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-89.64	0.8	-120.0	120.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.64	0.8	-120.0	120.0	119.7	0.30	402.179		
200.0	200.0	201.0	201.0	0.3	0.3	-89.64	0.8	-120.0	120.0	119.4	0.65	185.371		
300.0	300.0	301.0	301.0	0.5	0.5	-89.64	0.8	-120.0	120.0	119.0	1.00	120.443		
400.0	400.0	401.0	401.0	0.7	0.7	-89.64	0.8	-120.0	120.0	118.7	1.35	89.197		
500.0	500.0	503.1	503.1	0.8	0.9	-89.64	0.8	-119.1	119.1	117.4	1.70	70.142		
600.0	600.0	605.2	605.2	1.0	1.0	146.19	0.8	-116.4	117.2	115.1	2.05	57.133		
700.0	700.0	707.3	707.1	1.2	1.2	146.96	0.7	-111.8	114.9	112.5	2.40	47.800		
800.0	799.9	809.2	808.9	1.4	1.4	148.28	0.7	-105.4	112.3	109.5	2.76	40.741		
900.0	899.7	910.7	910.0	1.6	1.6	150.19	0.7	-97.3	109.6	106.5	3.11	35.219		
1,000.0	999.4	1,010.6	1,009.5	1.8	1.8	152.63	0.7	-88.8	107.9	104.5	3.47	31.134		
1,041.5	1,040.7	1,052.0	1,050.8	1.9	1.9	153.77	0.7	-85.2	107.8	104.2	3.62	29.808 CC		
1,100.0	1,098.9	1,110.4	1,109.0	2.0	2.1	155.51	0.7	-80.2	108.1	104.3	3.83	28.261		
1,200.0	1,198.4	1,210.2	1,208.5	2.2	2.3	158.55	0.7	-71.7	109.4	105.2	4.18	26.145		
1,300.0	1,297.8	1,310.1	1,307.9	2.5	2.5	161.51	0.7	-63.2	111.0	106.4	4.54	24.426		
1,400.0	1,397.3	1,409.9	1,407.4	2.7	2.7	164.38	0.6	-54.6	112.8	107.9	4.90	23.011		
1,500.0	1,496.7	1,509.7	1,506.9	2.9	2.9	167.15	0.6	-46.1	115.0	109.7	5.27	21.832		
1,600.0	1,596.1	1,609.5	1,606.3	3.2	3.2	169.81	0.6	-37.6	117.3	111.7	5.63	20.840		
1,700.0	1,695.6	1,709.4	1,705.8	3.4	3.4	172.37	0.6	-29.0	120.0	114.0	6.00	19.996		
1,800.0	1,795.0	1,809.2	1,805.2	3.7	3.6	174.80	0.6	-20.5	122.9	116.5	6.37	19.273		
1,900.0	1,894.5	1,909.0	1,904.7	3.9	3.8	177.13	0.6	-12.0	125.9	119.2	6.75	18.647		
2,000.0	1,993.9	2,008.8	2,004.1	4.2	4.1	179.34	0.6	-3.4	129.2	122.1	7.14	18.103		
2,100.0	2,093.4	2,108.7	2,103.6	4.4	4.3	-178.57	0.5	5.1	132.7	125.2	7.53	17.626		
2,200.0	2,192.8	2,208.5	2,203.1	4.6	4.5	-176.58	0.5	13.6	136.3	128.4	7.92	17.205		
2,300.0	2,292.3	2,308.3	2,302.5	4.9	4.8	-174.69	0.5	22.2	140.1	131.8	8.32	16.833		
2,400.0	2,391.7	2,408.1	2,402.0	5.1	5.0	-172.91	0.5	30.7	144.0	135.3	8.73	16.502		
2,500.0	2,491.2	2,508.0	2,501.4	5.4	5.2	-171.23	0.5	39.2	148.1	138.9	9.14	16.206		
2,600.0	2,590.6	2,607.8	2,600.9	5.6	5.4	-169.63	0.5	47.8	152.3	142.7	9.55	15.941		
2,700.0	2,690.1	2,707.6	2,700.4	5.9	5.7	-168.12	0.4	56.3	156.6	146.6	9.97	15.703		
2,800.0	2,789.5	2,807.4	2,799.8	6.1	5.9	-166.69	0.4	64.8	161.0	150.6	10.39	15.488		
2,900.0	2,889.0	2,907.3	2,899.3	6.4	6.1	-165.34	0.4	73.4	165.4	154.6	10.82	15.293		
3,000.0	2,988.4	3,007.1	2,998.7	6.6	6.3	-164.06	0.4	81.9	170.0	158.8	11.25	15.116		
3,100.0	3,087.9	3,106.9	3,098.2	6.9	6.6	-162.85	0.4	90.4	174.7	163.0	11.68	14.956		
3,200.0	3,187.3	3,206.7	3,197.7	7.2	6.8	-161.70	0.4	99.0	179.4	167.3	12.12	14.809		
3,300.0	3,286.8	3,306.6	3,297.1	7.4	7.0	-160.61	0.4	107.5	184.2	171.7	12.55	14.676		
3,400.0	3,386.2	3,406.4	3,396.6	7.7	7.3	-159.58	0.3	116.0	189.1	176.1	12.99	14.553		
3,500.0	3,485.7	3,506.2	3,496.0	7.9	7.5	-158.60	0.3	124.6	194.0	180.6	13.43	14.441		
3,600.0	3,585.1	3,606.0	3,595.5	8.2	7.7	-157.67	0.3	133.1	199.0	185.1	13.88	14.338		
3,700.0	3,684.6	3,705.9	3,695.0	8.4	7.9	-156.78	0.3	141.6	204.0	189.7	14.32	14.244		
3,800.0	3,784.0	3,805.7	3,794.4	8.7	8.2	-155.94	0.3	150.2	209.1	194.3	14.77	14.156		
3,900.0	3,883.5	3,905.5	3,893.9	8.9	8.4	-155.13	0.3	158.7	214.2	199.0	15.22	14.076		
4,000.0	3,982.9	4,005.3	3,993.3	9.2	8.6	-154.37	0.2	167.2	219.4	203.7	15.67	14.001		
4,100.0	4,082.4	4,105.2	4,092.8	9.4	8.9	-153.63	0.2	175.8	224.5	208.4	16.12	13.932		
4,200.0	4,181.8	4,205.0	4,192.3	9.7	9.1	-152.94	0.2	184.3	229.8	213.2	16.57	13.869		
4,300.0	4,281.3	4,304.8	4,291.7	9.9	9.3	-152.27	0.2	192.8	235.0	218.0	17.02	13.809		
4,400.0	4,380.7	4,404.6	4,391.2	10.2	9.6	-151.63	0.2	201.4	240.3	222.9	17.47	13.754		
4,500.0	4,480.2	4,504.5	4,490.6	10.4	9.8	-151.02	0.2	209.9	245.6	227.7	17.93	13.703		
4,600.0	4,579.6	4,604.3	4,590.1	10.7	10.0	-150.44	0.2	218.4	251.0	232.6	18.38	13.655		
4,700.0	4,679.1	4,704.1	4,689.6	10.9	10.2	-149.88	0.1	227.0	256.4	237.5	18.84	13.610		
4,800.0	4,778.5	4,803.9	4,789.0	11.2	10.5	-149.34	0.1	235.5	261.8	242.5	19.29	13.569		
4,900.0	4,878.0	4,903.8	4,888.5	11.4	10.7	-148.83	0.1	244.0	267.2	247.4	19.75	13.530		
5,000.0	4,977.4	5,003.6	4,987.9	11.7	10.9	-148.33	0.1	252.6	272.6	252.4	20.20	13.493		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4E-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				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	5,076.9	5,103.4	5,087.4	11.9	11.2	-147.86	0.1	261.1	278.1	257.4	20.66	13.459		
5,200.0	5,176.3	5,203.2	5,186.9	12.2	11.4	-147.40	0.1	269.6	283.5	262.4	21.12	13.427		
5,300.0	5,275.8	5,303.1	5,286.3	12.4	11.6	-146.96	0.0	278.2	289.0	267.5	21.57	13.397		
5,400.0	5,375.2	5,402.9	5,385.8	12.7	11.8	-146.54	0.0	286.7	294.5	272.5	22.03	13.369		
5,500.0	5,474.7	5,502.7	5,485.2	12.9	12.1	-146.13	0.0	295.2	300.1	277.6	22.49	13.342		
5,600.0	5,574.1	5,602.5	5,584.7	13.2	12.3	-145.74	0.0	303.8	305.6	282.7	22.95	13.317		
5,700.0	5,673.6	5,702.4	5,684.2	13.5	12.5	-145.36	0.0	312.3	311.2	287.8	23.41	13.294		
5,800.0	5,773.0	5,802.2	5,783.6	13.7	12.8	-144.99	0.0	320.8	316.7	292.9	23.86	13.272		
5,900.0	5,872.5	5,902.0	5,883.1	14.0	13.0	-144.64	0.0	329.4	322.3	298.0	24.32	13.251		
6,000.0	5,971.9	6,001.8	5,982.5	14.2	13.2	-144.30	-0.1	337.9	327.9	303.1	24.78	13.231		
6,100.0	6,071.4	6,101.7	6,082.0	14.5	13.4	-143.97	-0.1	346.4	333.5	308.3	25.24	13.212		
6,200.0	6,170.8	6,201.5	6,181.5	14.7	13.7	-143.65	-0.1	355.0	339.1	313.4	25.70	13.195		
6,300.0	6,270.3	6,301.3	6,280.9	15.0	13.9	-143.34	-0.1	363.5	344.7	318.6	26.16	13.178		
6,400.0	6,369.7	6,401.1	6,380.4	15.2	14.1	-143.05	-0.1	372.0	350.4	323.7	26.62	13.162		
6,500.0	6,469.2	6,501.0	6,479.8	15.5	14.4	-142.76	-0.1	380.6	356.0	328.9	27.08	13.147		
6,600.0	6,568.6	6,600.8	6,579.3	15.7	14.6	-142.48	-0.1	389.1	361.7	334.1	27.54	13.133		
6,700.0	6,668.1	6,700.6	6,678.7	16.0	14.8	-142.21	-0.2	397.6	367.3	339.3	28.00	13.119		
6,800.0	6,767.5	6,861.1	6,838.0	16.2	15.2	-125.53	-10.8	411.3	367.4	339.2	28.29	12.987		
6,900.0	6,867.0	7,037.7	7,005.9	16.4	15.6	-60.89	-62.2	425.7	335.9	308.7	27.16	12.367		
7,000.0	6,964.8	7,165.6	7,117.1	16.5	16.0	-54.16	-124.4	435.2	276.7	251.3	25.40	10.893		
7,100.0	7,059.3	7,245.1	7,179.9	16.5	16.4	-69.46	-172.7	440.6	204.2	180.2	23.99	8.513		
7,200.0	7,148.4	7,288.7	7,212.1	16.5	16.6	-90.11	-202.1	443.4	137.5	113.5	24.06	5.716		
7,277.2	7,212.4	7,305.3	7,223.8	16.4	16.7	-98.63	-213.8	444.4	114.9	88.4	26.50	4.335 ES		
7,300.0	7,230.4	7,308.0	7,225.7	16.4	16.7	-99.46	-215.7	444.5	117.1	89.9	27.21	4.303 SF		
7,400.0	7,303.8	7,310.9	7,227.7	16.4	16.7	-94.71	-217.7	444.7	168.0	140.4	27.60	6.085		
7,500.0	7,367.2	7,300.0	7,220.1	16.5	16.6	-77.36	-210.0	444.1	249.9	223.2	26.78	9.333		
7,600.0	7,419.2	7,286.2	7,210.2	16.7	16.6	-57.81	-200.3	443.2	339.4	312.7	26.72	12.703		
7,700.0	7,459.0	7,264.2	7,194.2	17.1	16.5	-41.33	-185.3	441.8	429.3	402.5	26.82	16.008		
7,800.0	7,485.6	7,237.9	7,174.5	17.6	16.3	-30.77	-168.0	440.1	516.8	489.7	27.11	19.064		
7,900.0	7,498.6	7,200.0	7,144.9	18.2	16.2	-23.90	-144.4	437.6	600.5	573.2	27.28	22.014		
8,000.0	7,500.0	7,177.4	7,126.8	19.0	16.1	-21.66	-131.1	436.1	680.4	652.4	27.97	24.324		
8,100.0	7,500.0	7,150.0	7,104.1	19.9	16.0	-20.79	-115.8	434.1	762.2	733.8	28.41	26.827		
8,200.0	7,500.0	7,124.3	7,082.4	20.9	15.9	-20.04	-102.1	432.2	846.3	817.5	28.79	29.394		
8,300.0	7,500.0	7,100.0	7,061.4	22.0	15.8	-19.37	-90.0	430.5	932.2	903.0	29.12	32.014		
8,400.0	7,500.0	7,081.7	7,045.4	23.2	15.8	-18.90	-81.3	429.1	1,019.6	990.1	29.47	34.594		
8,500.0	7,500.0	7,050.0	7,017.1	24.4	15.7	-18.14	-67.3	426.6	1,108.6	1,079.0	29.60	37.457		
8,600.0	7,500.0	7,050.0	7,017.1	25.7	15.7	-18.14	-67.3	426.6	1,198.3	1,168.2	30.09	39.824		
8,700.0	7,500.0	7,032.0	7,000.8	27.1	15.6	-17.74	-59.9	425.2	1,289.2	1,258.8	30.31	42.528		
8,800.0	7,500.0	7,018.4	6,988.2	28.5	15.6	-17.45	-54.6	424.2	1,380.9	1,350.3	30.56	45.190		
8,900.0	7,500.0	7,000.0	6,971.2	29.9	15.5	-17.07	-47.8	422.7	1,473.4	1,442.7	30.73	47.944		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4F-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-89.60	0.8	-110.0	110.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.60	0.8	-110.0	110.0	109.7	0.30	368.431		
116.3	116.3	117.3	117.3	0.2	0.2	-89.60	0.8	-110.0	110.0	109.6	0.36	309.348		
200.0	200.0	201.0	201.0	0.3	0.3	-89.60	0.8	-110.0	110.0	109.3	0.65	169.814		
300.0	300.0	301.0	301.0	0.5	0.5	-89.14	1.6	-110.0	110.0	109.0	1.00	110.242		
400.0	400.0	400.9	400.8	0.7	0.7	-87.77	4.3	-110.0	110.0	108.7	1.35	81.405		
500.0	500.0	500.7	500.5	0.8	0.9	-85.50	8.6	-110.0	110.3	108.6	1.71	64.362		
600.0	600.0	600.3	599.9	1.0	1.1	153.39	14.7	-110.0	111.7	109.6	2.09	53.553		
700.0	700.0	701.8	701.2	1.2	1.3	157.29	21.3	-109.2	114.5	112.0	2.46	46.494		
800.0	799.9	803.4	802.7	1.4	1.5	161.00	26.9	-106.9	117.7	114.9	2.84	41.496		
900.0	899.7	905.1	904.2	1.6	1.7	164.52	31.5	-103.2	121.3	118.1	3.21	37.814		
1,000.0	999.4	1,006.9	1,005.8	1.8	1.9	167.83	35.1	-97.9	125.3	121.8	3.58	35.015		
1,100.0	1,098.9	1,108.8	1,107.4	2.0	2.1	170.94	37.7	-91.1	129.7	125.8	3.95	32.829		
1,200.0	1,198.4	1,210.8	1,209.1	2.2	2.3	173.82	39.4	-82.8	133.6	129.2	4.32	30.889		
1,300.0	1,297.8	1,313.0	1,310.8	2.5	2.5	176.49	40.0	-73.0	135.9	131.2	4.70	28.927		
1,400.0	1,397.3	1,415.2	1,412.4	2.7	2.7	179.06	39.6	-61.6	136.8	131.7	5.08	26.933		
1,500.0	1,496.7	1,515.1	1,511.5	2.9	2.9	-178.45	38.7	-49.9	137.1	131.6	5.47	25.075		
1,600.0	1,596.1	1,614.9	1,610.7	3.2	3.2	-175.98	37.8	-38.1	137.6	131.7	5.86	23.476		
1,700.0	1,695.6	1,714.7	1,709.8	3.4	3.4	-173.53	36.9	-26.3	138.3	132.1	6.26	22.088		
1,800.0	1,795.0	1,814.5	1,808.9	3.7	3.7	-171.11	36.0	-14.5	139.4	132.7	6.68	20.876		
1,900.0	1,894.5	1,914.4	1,908.0	3.9	3.9	-168.73	35.2	-2.7	140.6	133.5	7.10	19.813		
2,000.0	1,993.9	2,014.2	2,007.1	4.2	4.2	-166.40	34.3	9.1	142.1	134.6	7.53	18.876		
2,100.0	2,093.4	2,114.0	2,106.3	4.4	4.4	-164.12	33.4	20.9	143.9	135.9	7.97	18.047		
2,200.0	2,192.8	2,213.8	2,205.4	4.6	4.7	-161.90	32.5	32.7	145.8	137.4	8.42	17.311		
2,300.0	2,292.3	2,313.6	2,304.5	4.9	4.9	-159.74	31.6	44.5	148.0	139.1	8.89	16.656		
2,400.0	2,391.7	2,413.5	2,403.6	5.1	5.2	-157.64	30.8	56.3	150.4	141.0	9.36	16.072		
2,500.0	2,491.2	2,513.3	2,502.7	5.4	5.4	-155.61	29.9	68.1	153.0	143.1	9.84	15.550		
2,600.0	2,590.6	2,613.1	2,601.8	5.6	5.7	-153.65	29.0	79.8	155.7	145.4	10.32	15.084		
2,700.0	2,690.1	2,712.9	2,701.0	5.9	6.0	-151.76	28.1	91.6	158.6	147.8	10.82	14.666		
2,800.0	2,789.5	2,812.8	2,800.1	6.1	6.2	-149.94	27.3	103.4	161.7	150.4	11.32	14.291		
2,900.0	2,889.0	2,912.6	2,899.2	6.4	6.5	-148.20	26.4	115.2	165.0	153.2	11.82	13.955		
3,000.0	2,988.4	3,012.4	2,998.3	6.6	6.8	-146.52	25.5	127.0	168.4	156.1	12.34	13.652		
3,100.0	3,087.9	3,112.2	3,097.4	6.9	7.0	-144.91	24.6	138.8	172.0	159.1	12.85	13.380		
3,200.0	3,187.3	3,212.0	3,196.6	7.2	7.3	-143.36	23.7	150.6	175.6	162.3	13.37	13.135		
3,300.0	3,286.8	3,311.9	3,295.7	7.4	7.6	-141.88	22.9	162.4	179.4	165.5	13.89	12.915		
3,400.0	3,386.2	3,411.7	3,394.8	7.7	7.8	-140.46	22.0	174.2	183.3	168.9	14.42	12.716		
3,500.0	3,485.7	3,511.5	3,493.9	7.9	8.1	-139.10	21.1	186.0	187.4	172.4	14.95	12.536		
3,600.0	3,585.1	3,611.3	3,593.0	8.2	8.4	-137.80	20.2	197.8	191.5	176.0	15.47	12.374		
3,700.0	3,684.6	3,711.2	3,692.2	8.4	8.6	-136.55	19.3	209.5	195.7	179.7	16.01	12.227		
3,800.0	3,784.0	3,811.0	3,791.3	8.7	8.9	-135.36	18.5	221.3	200.0	183.5	16.54	12.095		
3,900.0	3,883.5	3,910.8	3,890.4	8.9	9.2	-134.22	17.6	233.1	204.4	187.3	17.07	11.975		
4,000.0	3,982.9	4,010.6	3,989.5	9.2	9.4	-133.12	16.7	244.9	208.9	191.3	17.60	11.866		
4,100.0	4,082.4	4,110.4	4,088.6	9.4	9.7	-132.08	15.8	256.7	213.4	195.3	18.13	11.768		
4,200.0	4,181.8	4,210.3	4,187.8	9.7	10.0	-131.07	15.0	268.5	218.0	199.3	18.67	11.678		
4,300.0	4,281.3	4,310.1	4,286.9	9.9	10.2	-130.11	14.1	280.3	222.7	203.5	19.20	11.597		
4,400.0	4,380.7	4,409.9	4,386.0	10.2	10.5	-129.19	13.2	292.1	227.4	207.7	19.73	11.524		
4,500.0	4,480.2	4,509.7	4,485.1	10.4	10.8	-128.30	12.3	303.9	232.2	211.9	20.27	11.457		
4,600.0	4,579.6	4,609.6	4,584.2	10.7	11.0	-127.45	11.4	315.7	237.0	216.2	20.80	11.396		
4,700.0	4,679.1	4,709.4	4,683.4	10.9	11.3	-126.64	10.6	327.5	241.9	220.6	21.33	11.341		
4,800.0	4,778.5	4,809.2	4,782.5	11.2	11.6	-125.86	9.7	339.2	246.9	225.0	21.86	11.291		
4,900.0	4,878.0	4,909.0	4,881.6	11.4	11.8	-125.10	8.8	351.0	251.9	229.5	22.40	11.246		
5,000.0	4,977.4	5,008.8	4,980.7	11.7	12.1	-124.38	7.9	362.8	256.9	234.0	22.93	11.204		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4F-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,108.7	5,079.8	11.9	12.4	-123.69	7.0	374.6	261.9	238.5	23.46	11.167		
5,200.0	5,176.3	5,208.5	5,179.0	12.2	12.6	-123.02	6.2	386.4	267.0	243.1	23.99	11.133		
5,300.0	5,275.8	5,308.3	5,278.1	12.4	12.9	-122.38	5.3	398.2	272.2	247.7	24.52	11.102		
5,400.0	5,375.2	5,408.1	5,377.2	12.7	13.2	-121.76	4.4	410.0	277.3	252.3	25.05	11.073		
5,500.0	5,474.7	5,508.0	5,476.3	12.9	13.5	-121.16	3.5	421.8	282.5	257.0	25.57	11.048		
5,600.0	5,574.1	5,607.8	5,575.4	13.2	13.7	-120.59	2.7	433.6	287.8	261.7	26.10	11.025		
5,700.0	5,673.6	5,707.6	5,674.6	13.5	14.0	-120.03	1.8	445.4	293.0	266.4	26.63	11.004		
5,800.0	5,773.0	5,807.4	5,773.7	13.7	14.3	-119.50	0.9	457.2	298.3	271.2	27.16	10.985		
5,900.0	5,872.5	5,907.2	5,872.8	14.0	14.5	-118.98	0.0	469.0	303.6	275.9	27.68	10.968		
6,000.0	5,971.9	6,007.1	5,971.9	14.2	14.8	-118.48	-0.9	480.7	309.0	280.7	28.21	10.953		
6,100.0	6,071.4	6,106.9	6,071.0	14.5	15.1	-118.00	-1.7	492.5	314.3	285.6	28.73	10.939		
6,200.0	6,170.8	6,206.7	6,170.2	14.7	15.3	-117.54	-2.6	504.3	319.7	290.4	29.26	10.926		
6,300.0	6,270.3	6,306.5	6,269.3	15.0	15.6	-117.09	-3.5	516.1	325.1	295.3	29.78	10.915		
6,400.0	6,369.7	6,406.4	6,368.4	15.2	15.9	-116.65	-4.4	527.9	330.5	300.2	30.31	10.905		
6,500.0	6,469.2	6,506.2	6,467.5	15.5	16.2	-116.23	-5.3	539.7	335.9	305.1	30.83	10.896		
6,600.0	6,568.6	6,606.0	6,566.6	15.7	16.4	-115.82	-6.1	551.5	341.4	310.0	31.35	10.889		
6,700.0	6,668.1	6,705.8	6,665.8	16.0	16.7	-115.43	-7.0	563.3	346.8	315.0	31.87	10.882		
6,800.0	6,767.5	6,805.7	6,764.9	16.2	17.0	-98.20	-7.9	575.1	352.0	319.6	32.40	10.865		
6,900.0	6,867.0	6,905.4	6,863.9	16.4	17.2	-28.36	-8.8	586.9	347.4	314.5	32.90	10.561		
7,000.0	6,964.8	7,003.5	6,961.3	16.5	17.5	-8.50	-9.6	598.4	329.3	295.9	33.37	9.868		
7,100.0	7,059.3	7,129.5	7,086.2	16.5	17.8	1.25	-15.0	613.4	295.6	261.8	33.79	8.748		
7,200.0	7,148.4	7,252.0	7,205.2	16.5	18.2	13.77	-39.8	627.9	236.4	202.9	33.48	7.061		
7,300.0	7,230.4	7,330.8	7,278.8	16.4	18.4	36.63	-66.4	637.1	161.5	128.9	32.63	4.949		
7,400.0	7,303.8	7,375.8	7,319.3	16.4	18.6	69.08	-85.2	642.3	89.9	60.2	29.72	3.026		
7,453.7	7,339.2	7,389.6	7,331.5	16.5	18.6	81.25	-91.5	643.9	73.4	47.3	26.14	2.810	CC, ES, SF	
7,500.0	7,367.2	7,397.1	7,338.0	16.5	18.7	86.12	-94.9	644.7	86.4	59.7	26.73	3.233		
7,600.0	7,419.2	7,400.0	7,340.6	16.7	18.7	78.61	-96.3	645.0	162.6	132.5	30.16	5.391		
7,700.0	7,459.0	7,400.0	7,340.6	17.1	18.7	59.65	-96.3	645.0	255.3	223.5	31.85	8.017		
7,800.0	7,485.6	7,380.9	7,323.8	17.6	18.6	33.00	-87.5	642.9	349.8	317.5	32.37	10.807		
7,900.0	7,498.6	7,360.4	7,305.5	18.2	18.5	18.77	-78.4	640.5	442.7	409.7	32.98	13.423		
8,000.0	7,500.0	7,336.6	7,284.0	19.0	18.5	13.63	-68.7	637.8	533.2	499.7	33.53	15.904		
8,100.0	7,500.0	7,315.4	7,264.6	19.9	18.4	11.96	-60.6	635.4	624.8	590.8	33.97	18.394		
8,200.0	7,500.0	7,300.0	7,250.3	20.9	18.3	10.89	-55.0	633.6	717.6	683.2	34.38	20.871		
8,300.0	7,500.0	7,280.9	7,232.5	22.0	18.3	9.71	-48.6	631.3	811.3	776.7	34.64	23.424		
8,400.0	7,500.0	7,266.6	7,219.0	23.2	18.2	8.92	-44.1	629.7	905.9	871.0	34.91	25.952		
8,500.0	7,500.0	7,250.0	7,203.3	24.4	18.2	8.08	-39.2	627.7	1,001.1	966.0	35.10	28.523		
8,600.0	7,500.0	7,250.0	7,203.3	25.7	18.2	8.08	-39.2	627.7	1,096.9	1,061.5	35.45	30.946		
8,700.0	7,500.0	7,232.4	7,186.4	27.1	18.1	7.27	-34.5	625.6	1,193.0	1,157.5	35.56	33.546		
8,800.0	7,500.0	7,223.2	7,177.6	28.5	18.1	6.88	-32.1	624.5	1,289.6	1,253.9	35.75	36.072		
8,900.0	7,500.0	7,200.0	7,155.2	29.9	18.0	5.98	-26.8	621.8	1,386.8	1,351.0	35.79	38.744		
9,000.0	7,500.0	7,200.0	7,155.2	31.4	18.0	5.98	-26.8	621.8	1,483.8	1,447.7	36.03	41.176		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	-89.74	0.4	-99.9	99.9					
100.0	100.0	101.0	101.0	0.1	0.2	-89.74	0.4	-99.9	99.9	99.6	0.30	334.677		
200.0	200.0	201.0	201.0	0.3	0.3	-89.74	0.4	-99.9	99.9	99.2	0.65	154.258		
300.0	300.0	301.0	301.0	0.5	0.5	-89.74	0.4	-99.9	99.9	98.9	1.00	100.227		
400.0	400.0	401.0	401.0	0.7	0.7	-89.74	0.4	-99.9	99.9	98.5	1.35	74.228		
500.0	500.0	501.0	501.0	0.8	0.8	-89.74	0.4	-99.9	99.9	98.2	1.69	58.938		
600.0	600.0	602.8	602.8	1.0	1.0	146.11	0.5	-99.0	99.7	97.7	2.05	48.710		
700.0	700.0	704.5	704.5	1.2	1.2	147.02	0.5	-96.2	99.2	96.8	2.40	41.349		
800.0	799.9	806.3	806.1	1.4	1.4	148.54	0.6	-91.7	98.4	95.7	2.75	35.764		
900.0	899.7	907.9	907.6	1.6	1.6	150.70	0.7	-85.4	97.5	94.4	3.11	31.379		
1,000.0	999.4	1,009.5	1,008.8	1.8	1.8	153.53	0.8	-77.2	96.5	93.0	3.46	27.865		
1,100.0	1,098.9	1,111.0	1,109.9	2.0	2.0	157.05	1.0	-67.3	95.6	91.8	3.82	25.022		
1,200.0	1,198.4	1,212.4	1,210.6	2.2	2.3	161.09	1.2	-55.7	94.2	90.0	4.18	22.539		
1,300.0	1,297.8	1,313.7	1,310.9	2.5	2.5	165.63	1.4	-42.2	91.6	87.1	4.55	20.157		
1,400.0	1,397.3	1,414.7	1,410.8	2.7	2.8	170.88	1.6	-27.0	88.1	83.1	4.93	17.862		
1,500.0	1,496.7	1,514.8	1,509.6	2.9	3.1	176.99	1.9	-10.6	84.0	78.7	5.35	15.708		
1,600.0	1,596.1	1,614.3	1,607.7	3.2	3.4	-176.35	2.2	6.0	80.9	75.1	5.82	13.909		
1,700.0	1,695.6	1,713.8	1,705.8	3.4	3.8	-169.26	2.4	22.5	79.0	72.7	6.34	12.452		
1,800.0	1,795.0	1,813.3	1,803.9	3.7	4.1	-161.94	2.7	39.0	78.4	71.4	6.93	11.305		
1,800.4	1,795.5	1,813.7	1,804.3	3.7	4.1	-161.91	2.7	39.1	78.4	71.4	6.93	11.301 CC, ES		
1,900.0	1,894.5	1,912.7	1,902.0	3.9	4.4	-154.61	2.9	55.6	79.0	71.4	7.57	10.440		
2,000.0	1,993.9	2,012.2	2,000.1	4.2	4.7	-147.52	3.2	72.1	80.9	72.7	8.23	9.825		
2,100.0	2,093.4	2,111.7	2,098.2	4.4	5.0	-140.85	3.5	88.6	84.0	75.1	8.91	9.424		
2,200.0	2,192.8	2,211.2	2,196.3	4.6	5.4	-134.73	3.7	105.2	88.2	78.6	9.59	9.195		
2,300.0	2,292.3	2,310.7	2,294.4	4.9	5.7	-129.21	4.0	121.7	93.2	83.0	10.25	9.100 SF		
2,400.0	2,391.7	2,410.2	2,392.5	5.1	6.0	-124.30	4.3	138.2	99.1	88.2	10.88	9.107		
2,500.0	2,491.2	2,509.7	2,490.6	5.4	6.4	-119.95	4.5	154.8	105.6	94.1	11.49	9.187		
2,600.0	2,590.6	2,609.2	2,588.7	5.6	6.7	-116.13	4.8	171.3	112.6	100.5	12.08	9.320		
2,700.0	2,690.1	2,708.6	2,686.8	5.9	7.0	-112.77	5.1	187.8	120.1	107.4	12.66	9.489		
2,800.0	2,789.5	2,808.1	2,784.9	6.1	7.4	-109.81	5.3	204.4	127.9	114.7	13.21	9.683		
2,900.0	2,889.0	2,907.6	2,883.0	6.4	7.7	-107.20	5.6	220.9	136.1	122.3	13.76	9.891		
3,000.0	2,988.4	3,007.1	2,981.1	6.6	8.0	-104.88	5.9	237.4	144.5	130.2	14.29	10.109		
3,100.0	3,087.9	3,106.6	3,079.2	6.9	8.4	-102.82	6.1	254.0	153.1	138.3	14.82	10.331		
3,200.0	3,187.3	3,206.1	3,177.3	7.2	8.7	-100.98	6.4	270.5	161.9	146.5	15.34	10.554		
3,300.0	3,286.8	3,305.6	3,275.4	7.4	9.0	-99.34	6.7	287.0	170.8	154.9	15.85	10.775		
3,400.0	3,386.2	3,405.0	3,373.5	7.7	9.4	-97.85	6.9	303.6	179.8	163.5	16.36	10.993		
3,500.0	3,485.7	3,504.5	3,471.6	7.9	9.7	-96.51	7.2	320.1	189.0	172.1	16.87	11.206		
3,600.0	3,585.1	3,604.0	3,569.7	8.2	10.0	-95.29	7.5	336.6	198.2	180.9	17.37	11.414		
3,700.0	3,684.6	3,703.5	3,667.8	8.4	10.4	-94.19	7.7	353.2	207.6	189.7	17.87	11.616		
3,800.0	3,784.0	3,803.0	3,765.9	8.7	10.7	-93.17	8.0	369.7	217.0	198.6	18.37	11.812		
3,900.0	3,883.5	3,902.5	3,864.0	8.9	11.1	-92.25	8.3	386.2	226.4	207.6	18.87	12.002		
4,000.0	3,982.9	4,002.0	3,962.1	9.2	11.4	-91.39	8.5	402.8	236.0	216.6	19.36	12.186		
4,100.0	4,082.4	4,101.5	4,060.2	9.4	11.7	-90.60	8.8	419.3	245.5	225.7	19.86	12.364		
4,200.0	4,181.8	4,200.9	4,158.3	9.7	12.1	-89.88	9.1	435.8	255.1	234.8	20.35	12.535		
4,300.0	4,281.3	4,300.4	4,256.4	9.9	12.4	-89.20	9.3	452.4	264.8	243.9	20.85	12.701		
4,400.0	4,380.7	4,399.9	4,354.5	10.2	12.7	-88.57	9.6	468.9	274.5	253.1	21.34	12.861		
4,500.0	4,480.2	4,499.4	4,452.6	10.4	13.1	-87.99	9.9	485.4	284.2	262.4	21.84	13.015		
4,600.0	4,579.6	4,598.9	4,550.7	10.7	13.4	-87.44	10.1	502.0	293.9	271.6	22.33	13.164		
4,700.0	4,679.1	4,698.4	4,648.8	10.9	13.8	-86.93	10.4	518.5	303.7	280.9	22.82	13.308		
4,800.0	4,778.5	4,797.9	4,747.0	11.2	14.1	-86.45	10.7	535.0	313.5	290.2	23.31	13.447		
4,900.0	4,878.0	4,897.3	4,845.1	11.4	14.4	-86.00	10.9	551.6	323.3	299.5	23.81	13.581		
5,000.0	4,977.4	4,996.8	4,943.2	11.7	14.8	-85.58	11.2	568.1	333.1	308.8	24.30	13.710		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4G-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	5,076.9	5,096.3	5,041.3	11.9	15.1	-85.18	11.5	584.6	343.0	318.2	24.79	13.835		
5,200.0	5,176.3	5,195.8	5,139.4	12.2	15.5	-84.80	11.7	601.1	352.8	327.5	25.28	13.956		
5,300.0	5,275.8	5,295.3	5,237.5	12.4	15.8	-84.44	12.0	617.7	362.7	336.9	25.77	14.073		
5,400.0	5,375.2	5,394.8	5,335.6	12.7	16.1	-84.11	12.3	634.2	372.6	346.3	26.26	14.186		
5,500.0	5,474.7	5,494.3	5,433.7	12.9	16.5	-83.79	12.5	650.7	382.5	355.7	26.76	14.295		
5,600.0	5,574.1	5,593.8	5,531.8	13.2	16.8	-83.48	12.8	667.3	392.4	365.1	27.25	14.401		
5,700.0	5,673.6	5,693.2	5,629.9	13.5	17.2	-83.19	13.1	683.8	402.3	374.6	27.74	14.503		
5,800.0	5,773.0	5,792.7	5,728.0	13.7	17.5	-82.92	13.3	700.3	412.2	384.0	28.23	14.603		
5,900.0	5,872.5	5,892.2	5,826.1	14.0	17.8	-82.66	13.6	716.9	422.2	393.5	28.72	14.699		
6,000.0	5,971.9	5,991.7	5,924.2	14.2	18.2	-82.41	13.9	733.4	432.1	402.9	29.21	14.792		
6,100.0	6,071.4	6,091.2	6,022.3	14.5	18.5	-82.17	14.1	749.9	442.1	412.4	29.70	14.882		
6,200.0	6,170.8	6,190.7	6,120.4	14.7	18.8	-81.94	14.4	766.5	452.0	421.8	30.20	14.970		
6,300.0	6,270.3	6,290.2	6,218.5	15.0	19.2	-81.72	14.7	783.0	462.0	431.3	30.69	15.055		
6,400.0	6,369.7	6,389.6	6,316.6	15.2	19.5	-81.51	14.9	799.5	472.0	440.8	31.18	15.138		
6,500.0	6,469.2	6,489.1	6,414.7	15.5	19.9	-81.31	15.2	816.1	482.0	450.3	31.67	15.218		
6,600.0	6,568.6	6,588.6	6,512.8	15.7	20.2	-81.12	15.5	832.6	492.0	459.8	32.16	15.296		
6,700.0	6,668.1	6,688.1	6,610.9	16.0	20.5	-80.93	15.7	849.1	501.9	469.3	32.65	15.372		
6,800.0	6,767.5	6,787.6	6,709.0	16.2	20.9	-80.74	16.0	865.7	511.7	478.5	33.13	15.442		
6,900.0	6,867.0	6,975.6	6,892.8	16.4	21.5	9.00	-5.0	896.6	506.6	473.3	33.37	15.181		
7,000.0	6,964.8	7,135.1	7,039.9	16.5	22.1	38.04	-60.2	921.4	477.8	445.5	32.35	14.771		
7,100.0	7,059.3	7,238.8	7,127.7	16.5	22.5	57.25	-113.4	936.2	439.6	408.8	30.78	14.281		
7,200.0	7,148.4	7,298.1	7,174.1	16.5	22.7	70.54	-149.3	944.0	406.5	377.6	28.95	14.044		
7,300.0	7,230.4	7,326.9	7,195.6	16.4	22.8	77.72	-168.2	947.7	390.2	363.2	27.01	14.447		
7,321.9	7,247.3	7,330.3	7,198.1	16.4	22.8	78.55	-170.5	948.1	389.6	363.0	26.63	14.630		
7,400.0	7,303.8	7,335.7	7,202.0	16.4	22.9	79.58	-174.1	948.8	397.0	371.4	25.62	15.497		
7,500.0	7,367.2	7,331.1	7,198.7	16.5	22.8	77.14	-171.0	948.2	426.9	401.4	25.49	16.746		
7,600.0	7,419.2	7,317.2	7,188.5	16.7	22.8	71.38	-161.8	946.5	474.5	448.0	26.54	17.882		
7,700.0	7,459.0	7,300.0	7,175.6	17.1	22.7	63.81	-150.5	944.3	533.7	505.4	28.27	18.876		
7,800.0	7,485.6	7,271.6	7,153.7	17.6	22.6	54.57	-132.8	940.6	598.8	568.8	30.01	19.955		
7,900.0	7,498.6	7,250.0	7,136.7	18.2	22.5	46.61	-119.9	937.7	666.2	634.2	31.95	20.853		
8,000.0	7,500.0	7,212.4	7,106.0	19.0	22.4	41.35	-98.6	932.6	733.9	700.5	33.41	21.968		
8,100.0	7,500.0	7,184.9	7,083.0	19.9	22.2	39.42	-84.2	928.7	805.8	771.0	34.81	23.150		
8,200.0	7,500.0	7,150.0	7,053.0	20.9	22.1	37.07	-67.1	923.6	881.9	846.2	35.79	24.640		
8,300.0	7,500.0	7,150.0	7,053.0	22.0	22.1	37.07	-67.1	923.6	961.2	924.0	37.17	25.862		
8,400.0	7,500.0	7,119.7	7,026.3	23.2	22.0	35.11	-53.5	919.1	1,042.9	1,005.1	37.82	27.577		
8,500.0	7,500.0	7,100.0	7,008.6	24.4	21.9	33.89	-45.3	916.2	1,127.1	1,088.6	38.49	29.281		
8,600.0	7,500.0	7,100.0	7,008.6	25.7	21.9	33.89	-45.3	916.2	1,213.3	1,174.0	39.31	30.866		
8,700.0	7,500.0	7,072.6	6,983.7	27.1	21.8	32.25	-34.7	912.0	1,300.6	1,261.0	39.65	32.800		
8,800.0	7,500.0	7,050.0	6,962.9	28.5	21.8	30.96	-26.6	908.4	1,389.6	1,349.6	39.99	34.748		
8,900.0	7,500.0	7,050.0	6,962.9	29.9	21.8	30.96	-26.6	908.4	1,479.5	1,439.0	40.53	36.503		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	-89.75	0.4	-89.8	89.8					
100.0	100.0	101.0	101.0	0.1	0.2	-89.75	0.4	-89.8	89.8	89.5	0.30	300.928		
200.0	200.0	201.0	201.0	0.3	0.3	-89.75	0.4	-89.8	89.8	89.2	0.65	138.703		
300.0	300.0	301.0	301.0	0.5	0.5	-89.75	0.4	-89.8	89.8	88.8	1.00	90.120		
316.3	316.3	317.3	317.3	0.5	0.5	-89.75	0.4	-89.8	89.8	88.8	1.05	85.245 CC		
400.0	400.0	401.0	401.0	0.7	0.7	-89.75	0.4	-89.8	89.8	88.5	1.35	66.742		
401.5	401.5	402.5	402.5	0.7	0.7	-89.75	0.4	-89.8	89.8	88.5	1.35	66.476		
500.0	500.0	500.9	500.9	0.8	0.9	-88.62	2.2	-89.8	89.8	88.1	1.70	52.941 ES		
600.0	600.0	600.6	600.5	1.0	1.0	150.54	7.4	-89.8	90.9	88.8	2.06	44.128		
700.0	700.0	701.9	701.5	1.2	1.2	155.50	14.1	-89.0	93.3	90.8	2.43	38.363		
800.0	799.9	803.1	802.5	1.4	1.4	160.40	20.2	-86.5	96.2	93.4	2.80	34.286		
900.0	899.7	904.5	903.6	1.6	1.6	165.21	25.6	-82.3	99.7	96.5	3.18	31.326		
1,000.0	999.4	1,005.9	1,004.7	1.8	1.8	169.87	30.3	-76.5	103.7	100.2	3.56	29.135		
1,100.0	1,098.9	1,107.3	1,105.8	2.0	2.1	174.36	34.4	-69.0	108.4	104.5	3.94	27.486		
1,200.0	1,198.4	1,208.8	1,206.8	2.2	2.3	178.65	37.8	-59.8	112.8	108.5	4.34	26.029		
1,300.0	1,297.8	1,310.4	1,307.8	2.5	2.5	-177.17	40.5	-49.0	116.1	111.4	4.74	24.511		
1,400.0	1,397.3	1,412.0	1,408.6	2.7	2.8	-172.97	42.6	-36.5	118.3	113.2	5.16	22.942		
1,500.0	1,496.7	1,513.5	1,509.2	2.9	3.0	-168.61	43.9	-22.3	119.5	113.9	5.60	21.336		
1,600.0	1,596.1	1,615.0	1,609.4	3.2	3.3	-163.96	44.6	-6.5	119.7	113.7	6.07	19.715		
1,700.0	1,695.6	1,716.3	1,709.1	3.4	3.6	-158.90	44.6	10.8	119.3	112.7	6.59	18.110		
1,800.0	1,795.0	1,816.6	1,807.7	3.7	3.9	-153.41	44.0	29.6	118.5	111.3	7.14	16.585		
1,844.6	1,839.4	1,860.9	1,851.2	3.8	4.1	-150.93	43.7	37.9	118.4	111.0	7.40	15.990		
1,900.0	1,894.5	1,915.9	1,905.3	3.9	4.3	-147.85	43.3	48.3	118.5	110.8	7.73	15.331		
2,000.0	1,993.9	2,015.3	2,002.8	4.2	4.6	-142.35	42.6	67.1	119.7	111.4	8.34	14.349		
2,100.0	2,093.4	2,114.6	2,100.3	4.4	5.0	-137.00	41.9	85.9	122.0	113.0	8.97	13.602		
2,200.0	2,192.8	2,213.9	2,197.9	4.6	5.3	-131.89	41.2	104.7	125.3	115.7	9.60	13.054		
2,300.0	2,292.3	2,313.3	2,295.4	4.9	5.7	-127.08	40.5	123.5	129.6	119.3	10.22	12.672		
2,400.0	2,391.7	2,412.6	2,392.9	5.1	6.0	-122.59	39.8	142.3	134.7	123.8	10.84	12.425		
2,500.0	2,491.2	2,511.9	2,490.5	5.4	6.4	-118.46	39.1	161.1	140.6	129.1	11.44	12.286		
2,600.0	2,590.6	2,611.2	2,588.0	5.6	6.7	-114.67	38.4	179.9	147.1	135.1	12.03	12.232 SF		
2,700.0	2,690.1	2,710.6	2,685.5	5.9	7.1	-111.22	37.7	198.7	154.3	141.7	12.60	12.245		
2,800.0	2,789.5	2,809.9	2,783.1	6.1	7.5	-108.08	37.0	217.4	162.0	148.8	13.16	12.309		
2,900.0	2,889.0	2,909.2	2,880.6	6.4	7.8	-105.23	36.3	236.2	170.1	156.4	13.70	12.412		
3,000.0	2,988.4	3,008.6	2,978.1	6.6	8.2	-102.64	35.6	255.0	178.6	164.3	14.23	12.544		
3,100.0	3,087.9	3,107.9	3,075.7	6.9	8.5	-100.29	34.9	273.8	187.4	172.6	14.76	12.697		
3,200.0	3,187.3	3,207.2	3,173.2	7.2	8.9	-98.16	34.2	292.6	196.5	181.2	15.27	12.865		
3,300.0	3,286.8	3,306.5	3,270.7	7.4	9.3	-96.21	33.5	311.4	205.8	190.1	15.78	13.045		
3,400.0	3,386.2	3,405.9	3,368.3	7.7	9.7	-94.44	32.8	330.2	215.4	199.1	16.28	13.231		
3,500.0	3,485.7	3,505.2	3,465.8	7.9	10.0	-92.82	32.1	349.0	225.2	208.4	16.78	13.421		
3,600.0	3,585.1	3,604.5	3,563.3	8.2	10.4	-91.33	31.3	367.8	235.1	217.8	17.27	13.613		
3,700.0	3,684.6	3,703.9	3,660.9	8.4	10.8	-89.96	30.6	386.6	245.1	227.4	17.76	13.805		
3,800.0	3,784.0	3,803.2	3,758.4	8.7	11.1	-88.71	29.9	405.3	255.3	237.1	18.24	13.996		
3,900.0	3,883.5	3,902.5	3,855.9	8.9	11.5	-87.54	29.2	424.1	265.6	246.9	18.73	14.185		
4,000.0	3,982.9	4,001.8	3,953.5	9.2	11.9	-86.47	28.5	442.9	276.1	256.8	19.21	14.371		
4,100.0	4,082.4	4,101.2	4,051.0	9.4	12.2	-85.47	27.8	461.7	286.5	266.9	19.69	14.554		
4,200.0	4,181.8	4,200.5	4,148.5	9.7	12.6	-84.55	27.1	480.5	297.1	277.0	20.17	14.733		
4,300.0	4,281.3	4,299.8	4,246.1	9.9	13.0	-83.69	26.4	499.3	307.8	287.1	20.64	14.909		
4,400.0	4,380.7	4,399.2	4,343.6	10.2	13.4	-82.88	25.7	518.1	318.5	297.4	21.12	15.080		
4,500.0	4,480.2	4,498.5	4,441.1	10.4	13.7	-82.13	25.0	536.9	329.3	307.7	21.60	15.247		
4,600.0	4,579.6	4,597.8	4,538.7	10.7	14.1	-81.43	24.3	555.7	340.1	318.0	22.07	15.409		
4,700.0	4,679.1	4,697.1	4,636.2	10.9	14.5	-80.76	23.6	574.5	350.9	328.4	22.54	15.567		
4,800.0	4,778.5	4,796.5	4,733.7	11.2	14.8	-80.14	22.9	593.2	361.9	338.8	23.02	15.721		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4H-32H-O268 - OH - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,900.0	4,878.0	4,895.8	4,831.3	11.4	15.2	-79.56	22.2	612.0	372.8	349.3	23.49	15.871		
5,000.0	4,977.4	4,995.1	4,928.8	11.7	15.6	-79.01	21.5	630.8	383.8	359.8	23.96	16.016		
5,100.0	5,076.9	5,094.5	5,026.3	11.9	16.0	-78.49	20.8	649.6	394.8	370.4	24.44	16.157		
5,200.0	5,176.3	5,193.8	5,123.8	12.2	16.3	-77.99	20.1	668.4	405.9	381.0	24.91	16.295		
5,300.0	5,275.8	5,293.1	5,221.4	12.4	16.7	-77.53	19.4	687.2	417.0	391.6	25.38	16.428		
5,400.0	5,375.2	5,392.4	5,318.9	12.7	17.1	-77.09	18.7	706.0	428.1	402.2	25.85	16.558		
5,500.0	5,474.7	5,491.8	5,416.4	12.9	17.5	-76.67	18.0	724.8	439.2	412.9	26.32	16.684		
5,600.0	5,574.1	5,591.1	5,514.0	13.2	17.8	-76.27	17.3	743.6	450.3	423.6	26.80	16.807		
5,700.0	5,673.6	5,690.4	5,611.5	13.5	18.2	-75.89	16.5	762.3	461.5	434.3	27.27	16.926		
5,800.0	5,773.0	5,789.7	5,709.0	13.7	18.6	-75.53	15.8	781.1	472.7	445.0	27.74	17.042		
5,900.0	5,872.5	5,889.1	5,806.6	14.0	19.0	-75.18	15.1	799.9	483.9	455.7	28.21	17.154		
6,000.0	5,971.9	5,988.4	5,904.1	14.2	19.3	-74.85	14.4	818.7	495.2	466.5	28.68	17.264		
6,100.0	6,071.4	6,087.7	6,001.6	14.5	19.7	-74.54	13.7	837.5	506.4	477.2	29.15	17.370		
6,200.0	6,170.8	6,187.1	6,099.2	14.7	20.1	-74.24	13.0	856.3	517.7	488.0	29.62	17.474		
6,300.0	6,270.3	6,286.4	6,196.7	15.0	20.5	-73.95	12.3	875.1	528.9	498.8	30.10	17.575		
6,400.0	6,369.7	6,385.7	6,294.2	15.2	20.8	-73.67	11.6	893.9	540.2	509.6	30.57	17.673		
6,500.0	6,469.2	6,485.0	6,391.8	15.5	21.2	-73.41	10.9	912.7	551.5	520.5	31.04	17.768		
6,600.0	6,568.6	6,584.4	6,489.3	15.7	21.6	-73.15	10.2	931.5	562.8	531.3	31.51	17.861		
6,700.0	6,668.1	6,683.7	6,586.8	16.0	22.0	-72.91	9.5	950.2	574.1	542.1	31.98	17.952		
6,800.0	6,767.5	6,783.0	6,684.4	16.2	22.3	-55.94	8.8	969.0	585.2	552.8	32.44	18.040		
6,900.0	6,867.0	6,882.3	6,781.9	16.4	22.7	13.88	8.1	987.8	590.3	557.6	32.61	18.098		
7,000.0	6,964.8	6,980.0	6,877.7	16.5	23.1	34.59	7.4	1,006.3	587.1	554.7	32.40	18.122		
7,100.0	7,059.3	7,074.0	6,970.1	16.5	23.4	44.66	6.7	1,024.1	577.0	545.2	31.75	18.173		
7,200.0	7,148.4	7,168.3	7,082.1	16.5	23.9	54.37	2.5	1,045.7	561.0	530.3	30.71	18.268		
7,300.0	7,230.4	7,291.8	7,182.1	16.4	24.2	65.32	-15.7	1,064.9	539.5	510.5	29.00	18.600		
7,400.0	7,303.8	7,355.7	7,242.2	16.4	24.5	73.77	-34.2	1,076.5	522.3	495.1	27.14	19.242		
7,479.9	7,355.3	7,385.4	7,269.4	16.5	24.6	77.86	-44.6	1,081.7	517.3	491.2	26.17	19.770		
7,500.0	7,367.2	7,390.4	7,274.1	16.5	24.6	78.51	-46.5	1,082.6	517.7	491.6	26.04	19.879		
7,600.0	7,419.2	7,404.8	7,287.1	16.7	24.7	79.61	-52.1	1,085.1	529.6	503.2	26.41	20.055		
7,700.0	7,459.0	7,400.0	7,282.7	17.1	24.7	77.03	-50.2	1,084.3	558.3	530.1	28.12	19.850		
7,800.0	7,485.6	7,400.0	7,282.7	17.6	24.7	73.53	-50.2	1,084.3	600.7	569.9	30.79	19.509		
7,900.0	7,498.6	7,378.6	7,263.3	18.2	24.6	66.67	-42.1	1,080.6	652.9	619.6	33.35	19.578		
8,000.0	7,500.0	7,350.0	7,236.9	19.0	24.5	61.67	-32.3	1,075.5	712.0	676.4	35.63	19.982		
8,100.0	7,500.0	7,350.0	7,236.9	19.9	24.5	61.67	-32.3	1,075.5	778.3	740.4	37.95	20.506		
8,200.0	7,500.0	7,323.3	7,211.9	20.9	24.4	59.21	-24.1	1,070.7	850.4	810.9	39.48	21.542		
8,300.0	7,500.0	7,300.0	7,189.9	22.0	24.3	57.10	-17.7	1,066.4	927.4	886.7	40.72	22.779		
8,400.0	7,500.0	7,300.0	7,189.9	23.2	24.3	57.10	-17.7	1,066.4	1,008.0	966.0	41.98	24.012		
8,500.0	7,500.0	7,300.0	7,189.9	24.4	24.3	57.10	-17.7	1,066.4	1,091.8	1,048.8	43.00	25.389		
8,600.0	7,500.0	7,276.8	7,167.8	25.7	24.2	55.03	-12.1	1,062.2	1,177.5	1,133.9	43.59	27.013		
8,700.0	7,500.0	7,268.2	7,159.6	27.1	24.2	54.28	-10.2	1,060.6	1,265.4	1,221.2	44.21	28.621		
8,800.0	7,500.0	7,250.0	7,142.1	28.5	24.1	52.72	-6.6	1,057.2	1,354.9	1,310.3	44.63	30.360		
8,900.0	7,500.0	7,250.0	7,142.1	29.9	24.1	52.72	-6.6	1,057.2	1,445.5	1,400.3	45.15	32.015		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4I-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.76	0.3	-80.0	80.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.76	0.3	-80.0	80.0	79.7	0.30	269.694		
200.0	200.0	200.0	200.0	0.3	0.3	-89.76	0.3	-80.0	80.0	79.4	0.65	123.913		
300.0	300.0	300.0	300.0	0.5	0.5	-89.76	0.3	-80.0	80.0	79.0	0.99	80.435		
306.5	306.5	306.5	306.5	0.5	0.5	-89.76	0.3	-80.0	80.0	79.0	1.02	78.654 CC		
400.0	400.0	400.0	400.0	0.7	0.7	-89.52	0.7	-80.0	80.0	78.7	1.34	59.541		
500.0	500.0	499.9	499.9	0.8	0.9	-87.65	3.3	-80.0	80.1	78.4	1.70	47.205 ES		
600.0	600.0	599.6	599.4	1.0	1.0	151.90	8.5	-80.0	81.2	79.2	2.06	39.448		
700.0	700.0	698.8	698.3	1.2	1.2	157.93	16.3	-80.0	84.9	82.5	2.44	34.826		
800.0	799.9	800.5	799.6	1.4	1.5	164.80	25.4	-78.9	90.5	87.6	2.83	32.015		
900.0	899.7	903.3	902.0	1.6	1.7	170.98	33.1	-74.6	95.4	92.2	3.22	29.666		
1,000.0	999.4	1,006.2	1,004.5	1.8	1.9	176.71	39.0	-67.0	99.4	95.8	3.61	27.552		
1,100.0	1,098.9	1,109.3	1,106.9	2.0	2.1	-177.76	43.3	-56.1	102.5	98.5	4.01	25.553		
1,200.0	1,198.4	1,212.5	1,209.1	2.2	2.4	-172.17	45.9	-41.9	103.9	99.4	4.44	23.419		
1,300.0	1,297.8	1,315.5	1,310.5	2.5	2.7	-166.08	46.7	-24.5	102.8	97.9	4.89	21.002		
1,400.0	1,397.3	1,417.5	1,410.5	2.7	3.0	-159.06	45.9	-4.0	99.7	94.2	5.41	18.435		
1,500.0	1,496.7	1,516.6	1,507.4	2.9	3.3	-151.49	44.5	16.9	97.0	91.0	5.97	16.243		
1,597.0	1,593.2	1,612.8	1,601.3	3.2	3.7	-143.87	43.2	37.2	96.1	89.5	6.56	14.654		
1,600.0	1,596.1	1,615.7	1,604.2	3.2	3.7	-143.63	43.1	37.9	96.1	89.5	6.58	14.613		
1,700.0	1,695.6	1,714.8	1,701.1	3.4	4.0	-135.79	41.7	58.8	97.1	89.9	7.21	13.469		
1,800.0	1,795.0	1,813.9	1,797.9	3.7	4.4	-128.23	40.4	79.8	99.9	92.0	7.84	12.733		
1,900.0	1,894.5	1,913.0	1,894.8	3.9	4.8	-121.20	39.0	100.7	104.3	95.8	8.46	12.323		
2,000.0	1,993.9	2,012.1	1,991.6	4.2	5.2	-114.81	37.6	121.7	110.2	101.1	9.06	12.162 SF		
2,100.0	2,093.4	2,111.2	2,088.5	4.4	5.6	-109.13	36.2	142.6	117.3	107.7	9.63	12.186		
2,200.0	2,192.8	2,210.3	2,185.3	4.6	5.9	-104.13	34.8	163.6	125.4	115.3	10.17	12.340		
2,300.0	2,292.3	2,309.4	2,282.2	4.9	6.3	-99.77	33.4	184.5	134.4	123.7	10.68	12.585		
2,400.0	2,391.7	2,408.5	2,379.0	5.1	6.7	-95.96	32.0	205.5	144.1	132.9	11.18	12.888		
2,500.0	2,491.2	2,507.6	2,475.9	5.4	7.1	-92.64	30.6	226.4	154.3	142.6	11.66	13.230		
2,600.0	2,590.6	2,606.7	2,572.7	5.6	7.5	-89.74	29.2	247.4	165.0	152.8	12.14	13.592		
2,700.0	2,690.1	2,705.8	2,669.6	5.9	7.9	-87.20	27.8	268.3	176.0	163.4	12.60	13.966		
2,800.0	2,789.5	2,804.9	2,766.4	6.1	8.3	-84.96	26.4	289.3	187.4	174.3	13.06	14.342		
2,900.0	2,889.0	2,904.0	2,863.3	6.4	8.7	-82.97	25.1	310.2	199.0	185.4	13.52	14.715		
3,000.0	2,988.4	3,003.2	2,960.1	6.6	9.1	-81.21	23.7	331.2	210.8	196.8	13.97	15.082		
3,100.0	3,087.9	3,102.3	3,057.0	6.9	9.5	-79.63	22.3	352.1	222.7	208.3	14.43	15.440		
3,200.0	3,187.3	3,201.4	3,153.9	7.2	10.0	-78.21	20.9	373.1	234.9	220.0	14.88	15.788		
3,300.0	3,286.8	3,300.5	3,250.7	7.4	10.4	-76.94	19.5	394.0	247.1	231.8	15.33	16.124		
3,400.0	3,386.2	3,399.6	3,347.6	7.7	10.8	-75.78	18.1	415.0	259.5	243.7	15.78	16.449		
3,500.0	3,485.7	3,498.7	3,444.4	7.9	11.2	-74.73	16.7	435.9	272.0	255.7	16.22	16.763		
3,600.0	3,585.1	3,597.8	3,541.3	8.2	11.6	-73.77	15.3	456.9	284.5	267.8	16.67	17.064		
3,700.0	3,684.6	3,696.9	3,638.1	8.4	12.0	-72.90	13.9	477.8	297.1	280.0	17.12	17.354		
3,800.0	3,784.0	3,796.0	3,735.0	8.7	12.4	-72.09	12.5	498.8	309.8	292.2	17.57	17.632		
3,900.0	3,883.5	3,895.1	3,831.8	8.9	12.8	-71.35	11.1	519.7	322.5	304.5	18.02	17.899		
4,000.0	3,982.9	3,994.2	3,928.7	9.2	13.2	-70.66	9.8	540.7	335.3	316.9	18.47	18.156		
4,100.0	4,082.4	4,093.3	4,025.5	9.4	13.6	-70.03	8.4	561.6	348.2	329.2	18.92	18.403		
4,200.0	4,181.8	4,192.4	4,122.4	9.7	14.0	-69.44	7.0	582.6	361.0	341.7	19.37	18.641		
4,300.0	4,281.3	4,291.5	4,219.2	9.9	14.4	-68.89	5.6	603.5	373.9	354.1	19.82	18.869		
4,400.0	4,380.7	4,390.6	4,316.1	10.2	14.8	-68.38	4.2	624.5	386.9	366.6	20.27	19.088		
4,500.0	4,480.2	4,489.7	4,412.9	10.4	15.3	-67.90	2.8	645.4	399.8	379.1	20.72	19.299		
4,600.0	4,579.6	4,588.8	4,509.8	10.7	15.7	-67.45	1.4	666.4	412.8	391.7	21.17	19.502		
4,700.0	4,679.1	4,687.9	4,606.6	10.9	16.1	-67.02	0.0	687.3	425.8	404.2	21.62	19.697		
4,800.0	4,778.5	4,787.0	4,703.5	11.2	16.5	-66.63	-1.4	708.3	438.9	416.8	22.07	19.885		
4,900.0	4,878.0	4,886.1	4,800.3	11.4	16.9	-66.25	-2.8	729.2	451.9	429.4	22.52	20.067		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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)	
5,000.0	4,977.4	4,985.2	4,897.2	11.7	17.3	-65.90	-4.2	750.2	465.0	442.0	22.97	20.241		
5,100.0	5,076.9	5,084.3	4,994.1	11.9	17.7	-65.57	-5.5	771.1	478.1	454.7	23.42	20.410		
5,200.0	5,176.3	5,183.4	5,090.9	12.2	18.1	-65.25	-6.9	792.1	491.2	467.3	23.88	20.573		
5,300.0	5,275.8	5,282.5	5,187.8	12.4	18.5	-64.95	-8.3	813.0	504.3	480.0	24.33	20.730		
5,400.0	5,375.2	5,381.6	5,284.6	12.7	19.0	-64.67	-9.7	834.0	517.4	492.7	24.78	20.881		
5,500.0	5,474.7	5,480.7	5,381.5	12.9	19.4	-64.40	-11.1	854.9	530.6	505.3	25.23	21.028		
5,600.0	5,574.1	5,579.8	5,478.3	13.2	19.8	-64.14	-12.5	875.9	543.7	518.0	25.68	21.170		
5,700.0	5,673.6	5,678.9	5,575.2	13.5	20.2	-63.89	-13.9	896.8	556.9	530.8	26.14	21.307		
5,800.0	5,773.0	5,778.0	5,672.0	13.7	20.6	-63.66	-15.3	917.8	570.1	543.5	26.59	21.439		
5,900.0	5,872.5	5,877.1	5,768.9	14.0	21.0	-63.44	-16.7	938.7	583.3	556.2	27.04	21.568		
6,000.0	5,971.9	5,976.2	5,865.7	14.2	21.4	-63.22	-18.1	959.7	596.4	568.9	27.50	21.692		
6,100.0	6,071.4	6,075.3	5,962.6	14.5	21.8	-63.02	-19.5	980.6	609.6	581.7	27.95	21.813		
6,200.0	6,170.8	6,174.4	6,059.4	14.7	22.2	-62.82	-20.8	1,001.6	622.8	594.4	28.40	21.929		
6,300.0	6,270.3	6,273.5	6,156.3	15.0	22.6	-62.63	-22.2	1,022.5	636.1	607.2	28.86	22.043		
6,400.0	6,369.7	6,372.6	6,253.1	15.2	23.1	-62.45	-23.6	1,043.5	649.3	620.0	29.31	22.153		
6,500.0	6,469.2	6,471.7	6,350.0	15.5	23.5	-62.28	-25.0	1,064.4	662.5	632.7	29.76	22.259		
6,600.0	6,568.6	6,570.8	6,446.8	15.7	23.9	-62.12	-26.4	1,085.4	675.7	645.5	30.22	22.363		
6,700.0	6,668.1	6,669.9	6,543.7	16.0	24.3	-61.96	-27.8	1,106.3	689.0	658.3	30.67	22.464		
6,800.0	6,767.5	6,769.0	6,640.6	16.2	24.7	-45.13	-29.2	1,127.3	702.0	670.9	31.11	22.566		
6,900.0	6,867.0	6,868.0	6,737.3	16.4	25.1	24.28	-30.6	1,148.2	710.6	679.3	31.23	22.754		
7,000.0	6,964.8	6,965.3	6,832.3	16.5	25.5	44.40	-31.9	1,168.7	713.0	682.1	30.93	23.056		
7,100.0	7,059.3	7,058.9	6,923.8	16.5	25.9	53.61	-33.3	1,188.5	710.5	680.3	30.21	23.520		
7,200.0	7,148.4	7,147.1	7,010.0	16.5	26.3	60.47	-34.5	1,207.2	704.8	675.7	29.13	24.196		
7,300.0	7,230.4	7,247.2	7,107.6	16.4	26.7	67.92	-41.2	1,228.3	697.5	669.6	27.87	25.028		
7,400.0	7,303.8	7,318.3	7,175.9	16.4	27.0	74.14	-54.3	1,243.2	692.2	665.6	26.58	26.046		
7,423.1	7,319.4	7,330.5	7,187.4	16.4	27.0	75.24	-57.2	1,245.7	691.9	665.6	26.35	26.262		
7,500.0	7,367.2	7,361.1	7,216.1	16.5	27.2	77.87	-65.4	1,252.0	694.9	669.0	25.91	26.823		
7,600.0	7,419.2	7,382.7	7,236.3	16.7	27.3	78.98	-72.0	1,256.4	708.9	682.5	26.35	26.907		
7,700.0	7,459.0	7,389.2	7,242.3	17.1	27.3	77.72	-74.1	1,257.7	734.7	706.8	27.91	26.322		
7,800.0	7,485.6	7,384.8	7,238.3	17.6	27.3	74.47	-72.7	1,256.8	771.0	740.8	30.24	25.500		
7,900.0	7,498.6	7,372.5	7,226.8	18.2	27.2	69.70	-68.8	1,254.3	815.7	782.8	32.87	24.819		
8,000.0	7,500.0	7,350.0	7,205.8	19.0	27.1	66.11	-62.3	1,249.7	866.8	831.4	35.41	24.481		
8,100.0	7,500.0	7,350.0	7,205.8	19.9	27.1	66.11	-62.3	1,249.7	925.1	887.1	37.96	24.370		
8,200.0	7,500.0	7,327.0	7,184.1	20.9	27.0	64.41	-56.3	1,245.0	989.6	949.6	39.93	24.780		
8,300.0	7,500.0	7,315.5	7,173.1	22.0	27.0	63.56	-53.6	1,242.6	1,059.4	1,017.7	41.73	25.389		
8,400.0	7,500.0	7,300.0	7,158.4	23.2	26.9	62.42	-50.2	1,239.4	1,133.5	1,090.3	43.19	26.245		
8,500.0	7,500.0	7,300.0	7,158.4	24.4	26.9	62.42	-50.2	1,239.4	1,211.2	1,166.6	44.57	27.175		
8,600.0	7,500.0	7,300.0	7,158.4	25.7	26.9	62.42	-50.2	1,239.4	1,291.9	1,246.2	45.74	28.248		
8,700.0	7,500.0	7,281.3	7,140.5	27.1	26.8	61.05	-46.6	1,235.5	1,374.9	1,328.3	46.55	29.538		
8,800.0	7,500.0	7,274.9	7,134.3	28.5	26.8	60.59	-45.4	1,234.1	1,460.0	1,412.6	47.34	30.841		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	-89.77	0.3	-69.9	69.9					
100.0	100.0	100.0	100.0	0.1	0.1	-89.77	0.3	-69.9	69.9	69.7	0.30	235.746		
200.0	200.0	200.0	200.0	0.3	0.3	-89.77	0.3	-69.9	69.9	69.3	0.65	108.316		
300.0	300.0	300.0	300.0	0.5	0.5	-89.77	0.3	-69.9	69.9	69.0	0.99	70.310 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-89.77	0.3	-69.9	69.9	69.0	0.99	70.308		
400.0	400.0	399.9	399.9	0.7	0.7	-88.34	2.0	-69.9	70.0	68.6	1.35	51.966		
500.0	500.0	499.7	499.5	0.8	0.9	-84.09	7.2	-69.9	70.3	68.6	1.71	41.087 ES		
600.0	600.0	598.8	598.3	1.0	1.1	158.58	15.9	-69.9	72.6	70.5	2.10	34.559		
700.0	700.0	700.8	699.7	1.2	1.3	166.96	25.9	-68.3	76.4	73.9	2.50	30.595		
800.0	799.9	802.9	801.3	1.4	1.5	174.97	34.8	-63.2	80.0	77.1	2.90	27.562		
900.0	899.7	905.1	902.9	1.6	1.8	-177.15	42.5	-54.6	83.2	79.9	3.31	25.107		
1,000.0	999.4	1,007.2	1,004.0	1.8	2.0	-169.18	48.9	-42.7	86.3	82.6	3.75	23.044		
1,100.0	1,098.9	1,109.1	1,104.7	2.0	2.3	-161.02	54.1	-27.4	89.6	85.4	4.21	21.276		
1,200.0	1,198.4	1,210.7	1,204.5	2.2	2.6	-152.40	58.0	-8.7	92.7	87.9	4.72	19.613		
1,300.0	1,297.8	1,311.7	1,303.1	2.5	3.0	-142.92	60.7	13.1	95.3	90.1	5.29	18.015		
1,400.0	1,397.3	1,412.0	1,400.2	2.7	3.4	-132.50	62.2	37.9	98.7	92.8	5.91	16.715		
1,500.0	1,496.7	1,510.2	1,494.9	2.9	3.9	-122.31	63.0	63.9	104.5	98.0	6.51	16.063		
1,600.0	1,596.1	1,608.3	1,589.5	3.2	4.3	-113.41	63.8	89.9	113.3	106.2	7.07	16.026 SF		
1,700.0	1,695.6	1,706.5	1,684.1	3.4	4.8	-105.91	64.6	115.8	124.4	116.8	7.59	16.385		
1,800.0	1,795.0	1,804.6	1,778.8	3.7	5.2	-99.71	65.4	141.8	137.4	129.3	8.09	16.982		
1,900.0	1,894.5	1,902.7	1,873.4	3.9	5.7	-94.60	66.2	167.8	151.6	143.1	8.56	17.708		
2,000.0	1,993.9	2,000.9	1,968.1	4.2	6.2	-90.38	67.0	193.7	166.9	157.9	9.02	18.495		
2,100.0	2,093.4	2,099.0	2,062.7	4.4	6.6	-86.88	67.8	219.7	182.9	173.4	9.48	19.301		
2,200.0	2,192.8	2,197.2	2,157.3	4.6	7.1	-83.94	68.6	245.7	199.5	189.5	9.92	20.099		
2,300.0	2,292.3	2,295.3	2,252.0	4.9	7.6	-81.46	69.4	271.6	216.5	206.1	10.37	20.875		
2,400.0	2,391.7	2,393.4	2,346.6	5.1	8.1	-79.34	70.2	297.6	233.8	223.0	10.81	21.621		
2,500.0	2,491.2	2,491.6	2,441.3	5.4	8.6	-77.51	71.0	323.6	251.4	240.2	11.26	22.333		
2,600.0	2,590.6	2,589.7	2,535.9	5.6	9.1	-75.92	71.8	349.5	269.2	257.5	11.70	23.009		
2,700.0	2,690.1	2,687.9	2,630.5	5.9	9.6	-74.53	72.6	375.5	287.2	275.1	12.15	23.650		
2,800.0	2,789.5	2,786.0	2,725.2	6.1	10.0	-73.30	73.5	401.5	305.4	292.8	12.59	24.256		
2,900.0	2,889.0	2,884.1	2,819.8	6.4	10.5	-72.21	74.3	427.4	323.7	310.6	13.04	24.829		
3,000.0	2,988.4	2,982.3	2,914.5	6.6	11.0	-71.24	75.1	453.4	342.0	328.6	13.48	25.371		
3,100.0	3,087.9	3,080.4	3,009.1	6.9	11.5	-70.36	75.9	479.4	360.5	346.6	13.93	25.883		
3,200.0	3,187.3	3,178.6	3,103.7	7.2	12.0	-69.58	76.7	505.3	379.0	364.7	14.38	26.367		
3,300.0	3,286.8	3,276.7	3,198.4	7.4	12.5	-68.86	77.5	531.3	397.6	382.8	14.82	26.825		
3,400.0	3,386.2	3,374.8	3,293.0	7.7	13.0	-68.21	78.3	557.3	416.3	401.0	15.27	27.259		
3,500.0	3,485.7	3,473.0	3,387.7	7.9	13.5	-67.61	79.1	583.2	435.0	419.2	15.72	27.671		
3,600.0	3,585.1	3,571.1	3,482.3	8.2	14.0	-67.07	79.9	609.2	453.7	437.5	16.17	28.061		
3,700.0	3,684.6	3,669.3	3,576.9	8.4	14.5	-66.56	80.7	635.2	472.5	455.9	16.62	28.432		
3,800.0	3,784.0	3,767.4	3,671.6	8.7	15.0	-66.10	81.5	661.1	491.3	474.2	17.07	28.785		
3,900.0	3,883.5	3,865.5	3,766.2	8.9	15.5	-65.67	82.3	687.1	510.1	492.6	17.52	29.120		
4,000.0	3,982.9	3,963.7	3,860.9	9.2	16.0	-65.27	83.1	713.1	529.0	511.0	17.97	29.440		
4,100.0	4,082.4	4,061.8	3,955.5	9.4	16.5	-64.89	83.9	739.0	547.9	529.5	18.42	29.745		
4,200.0	4,181.8	4,160.0	4,050.1	9.7	17.0	-64.55	84.7	765.0	566.8	547.9	18.87	30.036		
4,300.0	4,281.3	4,258.1	4,144.8	9.9	17.5	-64.22	85.6	791.0	585.7	566.4	19.32	30.314		
4,400.0	4,380.7	4,356.3	4,239.4	10.2	18.0	-63.92	86.4	816.9	604.6	584.9	19.77	30.579		
4,500.0	4,480.2	4,454.4	4,334.1	10.4	18.4	-63.63	87.2	842.9	623.6	603.4	20.22	30.834		
4,600.0	4,579.6	4,552.5	4,428.7	10.7	18.9	-63.36	88.0	868.8	642.6	621.9	20.68	31.077		
4,700.0	4,679.1	4,650.7	4,523.3	10.9	19.4	-63.11	88.8	894.8	661.6	640.4	21.13	31.310		
4,800.0	4,778.5	4,748.8	4,618.0	11.2	19.9	-62.87	89.6	920.8	680.6	659.0	21.58	31.534		
4,900.0	4,878.0	4,847.0	4,712.6	11.4	20.4	-62.64	90.4	946.7	699.6	677.5	22.03	31.749		
5,000.0	4,977.4	4,945.1	4,807.2	11.7	20.9	-62.42	91.2	972.7	718.6	696.1	22.49	31.956		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4J-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,043.2	4,901.9	11.9	21.4	-62.22	92.0	998.7	737.6	714.7	22.94	32.155		
5,200.0	5,176.3	5,141.4	4,996.5	12.2	21.9	-62.03	92.8	1,024.6	756.6	733.2	23.39	32.346		
5,300.0	5,275.8	5,239.5	5,091.2	12.4	22.4	-61.84	93.6	1,050.6	775.7	751.8	23.85	32.530		
5,400.0	5,375.2	5,337.7	5,185.8	12.7	22.9	-61.67	94.4	1,076.6	794.7	770.4	24.30	32.707		
5,500.0	5,474.7	5,435.8	5,280.4	12.9	23.4	-61.50	95.2	1,102.5	813.8	789.0	24.75	32.878		
5,600.0	5,574.1	5,533.9	5,375.1	13.2	23.9	-61.34	96.0	1,128.5	832.9	807.7	25.21	33.043		
5,700.0	5,673.6	5,632.1	5,469.7	13.5	24.4	-61.19	96.8	1,154.5	851.9	826.3	25.66	33.202		
5,800.0	5,773.0	5,730.2	5,564.4	13.7	24.9	-61.04	97.6	1,180.4	871.0	844.9	26.11	33.355		
5,900.0	5,872.5	5,828.4	5,659.0	14.0	25.4	-60.90	98.5	1,206.4	890.1	863.5	26.57	33.504		
6,000.0	5,971.9	5,926.5	5,753.6	14.2	25.9	-60.77	99.3	1,232.4	909.2	882.1	27.02	33.647		
6,100.0	6,071.4	6,024.6	5,848.3	14.5	26.4	-60.64	100.1	1,258.3	928.3	900.8	27.47	33.786		
6,200.0	6,170.8	6,122.8	5,942.9	14.7	26.9	-60.52	100.9	1,284.3	947.4	919.4	27.93	33.921		
6,300.0	6,270.3	6,220.9	6,037.6	15.0	27.4	-60.40	101.7	1,310.3	966.5	938.1	28.38	34.051		
6,400.0	6,369.7	6,319.1	6,132.2	15.2	27.9	-60.29	102.5	1,336.2	985.6	956.7	28.84	34.177		
6,500.0	6,469.2	6,417.2	6,226.8	15.5	28.4	-60.18	103.3	1,362.2	1,004.7	975.4	29.29	34.300		
6,600.0	6,568.6	6,515.3	6,321.5	15.7	28.9	-60.07	104.1	1,388.2	1,023.8	994.0	29.75	34.418		
6,700.0	6,668.1	6,613.5	6,416.1	16.0	29.4	-59.97	104.9	1,414.1	1,042.9	1,012.7	30.20	34.533		
6,800.0	6,767.5	6,711.6	6,510.8	16.2	29.9	-43.31	105.7	1,440.1	1,061.8	1,031.2	30.64	34.655		
6,900.0	6,867.0	6,809.9	6,605.5	16.4	30.4	25.35	106.5	1,466.1	1,076.5	1,045.7	30.79	34.961		
7,000.0	6,964.8	6,906.7	6,698.9	16.5	30.9	44.43	107.3	1,491.7	1,085.2	1,054.7	30.58	35.493		
7,100.0	7,059.3	7,076.9	6,862.3	16.5	31.7	54.50	96.0	1,536.5	1,086.5	1,056.3	30.24	35.928		
7,200.0	7,148.4	7,226.2	7,000.3	16.5	32.4	63.66	54.1	1,574.4	1,078.1	1,048.9	29.21	36.912		
7,300.0	7,230.4	7,308.8	7,072.1	16.4	32.8	70.04	18.4	1,594.1	1,068.3	1,040.4	27.90	38.288		
7,400.0	7,303.8	7,348.5	7,105.0	16.4	33.0	73.65	-1.7	1,603.1	1,062.7	1,036.0	26.74	39.744		
7,437.6	7,328.9	7,355.9	7,111.1	16.5	33.0	74.40	-5.6	1,604.8	1,062.2	1,035.8	26.42	40.208		
7,500.0	7,367.2	7,361.8	7,115.8	16.5	33.0	75.03	-8.8	1,606.1	1,063.6	1,037.6	26.04	40.845		
7,600.0	7,419.2	7,358.6	7,113.3	16.7	33.0	74.72	-7.1	1,605.4	1,071.6	1,045.6	26.02	41.187		
7,700.0	7,459.0	7,344.8	7,102.0	17.1	32.9	73.14	0.3	1,602.3	1,086.4	1,059.6	26.81	40.526		
7,800.0	7,485.6	7,323.7	7,084.6	17.6	32.9	70.62	11.1	1,597.5	1,107.0	1,078.7	28.35	39.044		
7,900.0	7,498.6	7,300.0	7,064.6	18.2	32.7	67.56	22.7	1,592.0	1,132.1	1,101.6	30.47	37.159		
8,000.0	7,500.0	7,268.8	7,037.8	19.0	32.6	65.16	36.8	1,584.7	1,161.0	1,128.1	32.88	35.309		
8,100.0	7,500.0	7,250.0	7,021.4	19.9	32.5	64.29	44.7	1,580.2	1,196.3	1,160.7	35.58	33.622		
8,200.0	7,500.0	7,221.9	6,996.5	20.9	32.4	62.97	55.7	1,573.3	1,237.8	1,199.7	38.09	32.493		
8,300.0	7,500.0	7,200.0	6,976.7	22.0	32.3	61.94	63.6	1,567.9	1,285.2	1,244.6	40.55	31.693		
8,400.0	7,500.0	7,186.6	6,964.6	23.2	32.2	61.30	68.1	1,564.6	1,338.0	1,295.1	42.89	31.194		
8,500.0	7,500.0	7,172.1	6,951.3	24.4	32.2	60.62	72.7	1,560.9	1,395.5	1,350.5	45.00	31.012		
8,600.0	7,500.0	7,150.0	6,930.9	25.7	32.1	59.57	79.2	1,555.4	1,457.5	1,410.7	46.80	31.141		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	-89.78	0.2	-59.9	59.9				
100.0	100.0	100.0	100.0	0.1	0.1	-89.78	0.2	-59.9	59.9	59.6	0.30	201.798	
200.0	200.0	200.0	200.0	0.3	0.3	-89.78	0.2	-59.9	59.9	59.2	0.65	92.718 CC	
200.0	200.0	200.0	200.0	0.3	0.3	-89.78	0.2	-59.9	59.9	59.2	0.65	92.716	
300.0	300.0	300.0	299.9	0.5	0.5	-88.11	2.0	-59.9	59.9	58.9	1.00	59.999 ES	
400.0	400.0	399.7	399.5	0.7	0.7	-83.16	7.2	-59.9	60.3	58.9	1.37	44.107	
500.0	500.0	498.9	498.3	0.8	0.9	-75.21	15.8	-59.9	61.9	60.2	1.76	35.182	
600.0	600.0	600.6	599.5	1.0	1.2	169.67	25.9	-58.2	64.6	62.4	2.16	29.863	
700.0	700.0	702.3	700.7	1.2	1.4	178.85	34.8	-53.1	67.0	64.4	2.56	26.115	
800.0	799.9	803.9	801.7	1.4	1.6	-171.84	42.5	-44.6	69.4	66.4	2.98	23.321	
900.0	899.7	905.4	902.3	1.6	1.9	-162.26	49.1	-32.7	72.2	68.8	3.41	21.190	
1,000.0	999.4	1,006.6	1,002.2	1.8	2.2	-152.43	54.5	-17.5	75.7	71.8	3.87	19.578	
1,100.0	1,098.9	1,107.5	1,101.2	2.0	2.5	-142.47	58.6	1.0	80.4	76.0	4.37	18.406	
1,200.0	1,198.4	1,207.8	1,199.1	2.2	2.9	-132.30	61.6	22.6	86.1	81.2	4.91	17.546	
1,300.0	1,297.8	1,307.3	1,295.5	2.5	3.3	-121.67	63.4	47.2	93.1	87.7	5.47	17.020 SF	
1,400.0	1,397.3	1,405.7	1,390.0	2.7	3.8	-111.04	64.1	74.6	102.5	96.4	6.02	17.028	
1,500.0	1,496.7	1,503.4	1,483.6	2.9	4.2	-101.97	64.5	102.7	114.8	108.3	6.51	17.626	
1,600.0	1,596.1	1,601.2	1,577.2	3.2	4.7	-94.75	64.8	130.7	129.4	122.4	6.97	18.555	
1,700.0	1,695.6	1,698.9	1,670.9	3.4	5.2	-89.04	65.2	158.8	145.7	138.2	7.42	19.634	
1,800.0	1,795.0	1,796.6	1,764.5	3.7	5.7	-84.49	65.5	186.8	163.1	155.2	7.85	20.761	
1,900.0	1,894.5	1,894.3	1,858.1	3.9	6.2	-80.83	65.9	214.9	181.3	173.0	8.29	21.879	
2,000.0	1,993.9	1,992.1	1,951.7	4.2	6.8	-77.83	66.3	243.0	200.1	191.4	8.72	22.958	
2,100.0	2,093.4	2,089.8	2,045.3	4.4	7.3	-75.36	66.6	271.0	219.4	210.2	9.15	23.983	
2,200.0	2,192.8	2,187.5	2,138.9	4.6	7.8	-73.28	67.0	299.1	239.0	229.4	9.58	24.949	
2,300.0	2,292.3	2,285.2	2,232.5	4.9	8.3	-71.52	67.3	327.1	258.8	248.8	10.01	25.855	
2,400.0	2,391.7	2,382.9	2,326.1	5.1	8.8	-70.01	67.7	355.2	278.9	268.4	10.44	26.703	
2,500.0	2,491.2	2,480.7	2,419.7	5.4	9.4	-68.70	68.1	383.2	299.1	288.2	10.88	27.496	
2,600.0	2,590.6	2,578.4	2,513.3	5.6	9.9	-67.56	68.4	411.3	319.4	308.1	11.31	28.236	
2,700.0	2,690.1	2,676.1	2,606.9	5.9	10.4	-66.55	68.8	439.3	339.9	328.1	11.75	28.929	
2,800.0	2,789.5	2,773.8	2,700.5	6.1	11.0	-65.66	69.1	467.4	360.4	348.2	12.19	29.577	
2,900.0	2,889.0	2,871.5	2,794.1	6.4	11.5	-64.87	69.5	495.4	381.0	368.4	12.62	30.185	
3,000.0	2,988.4	2,969.3	2,887.8	6.6	12.0	-64.15	69.9	523.5	401.7	388.6	13.06	30.755	
3,100.0	3,087.9	3,067.0	2,981.4	6.9	12.6	-63.51	70.2	551.6	422.4	408.9	13.50	31.291	
3,200.0	3,187.3	3,164.7	3,075.0	7.2	13.1	-62.92	70.6	579.6	443.2	429.3	13.94	31.794	
3,300.0	3,286.8	3,262.4	3,168.6	7.4	13.6	-62.39	70.9	607.7	464.0	449.7	14.38	32.269	
3,400.0	3,386.2	3,360.2	3,262.2	7.7	14.2	-61.90	71.3	635.7	484.9	470.1	14.82	32.717	
3,500.0	3,485.7	3,457.9	3,355.8	7.9	14.7	-61.46	71.7	663.8	505.8	490.5	15.26	33.140	
3,600.0	3,585.1	3,555.6	3,449.4	8.2	15.2	-61.05	72.0	691.8	526.7	511.0	15.70	33.540	
3,700.0	3,684.6	3,653.3	3,543.0	8.4	15.8	-60.67	72.4	719.9	547.6	531.5	16.14	33.919	
3,800.0	3,784.0	3,751.0	3,636.6	8.7	16.3	-60.32	72.7	747.9	568.6	552.0	16.59	34.279	
3,900.0	3,883.5	3,848.8	3,730.2	8.9	16.8	-59.99	73.1	776.0	589.6	572.5	17.03	34.621	
4,000.0	3,982.9	3,946.5	3,823.8	9.2	17.4	-59.69	73.5	804.0	610.5	593.1	17.47	34.945	
4,100.0	4,082.4	4,044.2	3,917.4	9.4	17.9	-59.40	73.8	832.1	631.6	613.6	17.91	35.254	
4,200.0	4,181.8	4,141.9	4,011.0	9.7	18.4	-59.14	74.2	860.2	652.6	634.2	18.36	35.548	
4,300.0	4,281.3	4,239.7	4,104.7	9.9	19.0	-58.89	74.5	888.2	673.6	654.8	18.80	35.829	
4,400.0	4,380.7	4,337.4	4,198.3	10.2	19.5	-58.65	74.9	916.3	694.7	675.4	19.24	36.097	
4,500.0	4,480.2	4,435.1	4,291.9	10.4	20.0	-58.43	75.3	944.3	715.7	696.0	19.69	36.354	
4,600.0	4,579.6	4,532.8	4,385.5	10.7	20.6	-58.22	75.6	972.4	736.8	716.7	20.13	36.599	
4,700.0	4,679.1	4,630.5	4,479.1	10.9	21.1	-58.03	76.0	1,000.4	757.9	737.3	20.58	36.834	
4,800.0	4,778.5	4,728.3	4,572.7	11.2	21.6	-57.84	76.4	1,028.5	778.9	757.9	21.02	37.058	
4,900.0	4,878.0	4,826.0	4,666.3	11.4	22.2	-57.67	76.7	1,056.5	800.0	778.6	21.46	37.274	
5,000.0	4,977.4	4,923.7	4,759.9	11.7	22.7	-57.50	77.1	1,084.6	821.1	799.2	21.91	37.481	

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4K-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,021.4	4,853.5	11.9	23.2	-57.34	77.4	1,112.7	842.2	819.9	22.35	37.680		
5,200.0	5,176.3	5,119.2	4,947.1	12.2	23.8	-57.19	77.8	1,140.7	863.3	840.5	22.80	37.872		
5,300.0	5,275.8	5,216.9	5,040.7	12.4	24.3	-57.05	78.2	1,168.8	884.5	861.2	23.24	38.056		
5,400.0	5,375.2	5,314.6	5,134.3	12.7	24.8	-56.91	78.5	1,196.8	905.6	881.9	23.69	38.233		
5,500.0	5,474.7	5,412.3	5,227.9	12.9	25.4	-56.78	78.9	1,224.9	926.7	902.6	24.13	38.404		
5,600.0	5,574.1	5,510.0	5,321.6	13.2	25.9	-56.66	79.2	1,252.9	947.8	923.3	24.58	38.568		
5,700.0	5,673.6	5,607.8	5,415.2	13.5	26.5	-56.54	79.6	1,281.0	969.0	943.9	25.02	38.727		
5,800.0	5,773.0	5,705.5	5,508.8	13.7	27.0	-56.42	80.0	1,309.0	990.1	964.6	25.47	38.881		
5,900.0	5,872.5	5,803.2	5,602.4	14.0	27.5	-56.31	80.3	1,337.1	1,011.2	985.3	25.91	39.029		
6,000.0	5,971.9	5,900.9	5,696.0	14.2	28.1	-56.21	80.7	1,365.1	1,032.4	1,006.0	26.36	39.172		
6,100.0	6,071.4	5,998.7	5,799.6	14.5	28.6	-56.11	81.0	1,393.2	1,053.5	1,026.7	26.80	39.310		
6,200.0	6,170.8	6,096.4	5,883.2	14.7	29.1	-56.01	81.4	1,421.3	1,074.7	1,047.4	27.25	39.444		
6,300.0	6,270.3	6,194.1	5,976.8	15.0	29.7	-55.92	81.8	1,449.3	1,095.8	1,068.1	27.69	39.574		
6,400.0	6,369.7	6,291.8	6,070.4	15.2	30.2	-55.83	82.1	1,477.4	1,117.0	1,088.9	28.14	39.699		
6,500.0	6,469.2	6,389.5	6,164.0	15.5	30.7	-55.74	82.5	1,505.4	1,138.2	1,109.6	28.58	39.821		
6,600.0	6,568.6	6,487.3	6,257.6	15.7	31.3	-55.66	82.8	1,533.5	1,159.3	1,130.3	29.03	39.939		
6,700.0	6,668.1	6,585.0	6,351.2	16.0	31.8	-55.58	83.2	1,561.5	1,180.5	1,151.0	29.47	40.053		
6,800.0	6,767.5	6,682.7	6,444.9	16.2	32.4	-38.99	83.6	1,589.6	1,201.5	1,171.6	29.91	40.177		
6,900.0	6,867.0	6,780.5	6,538.5	16.4	32.9	29.37	83.9	1,617.7	1,218.9	1,188.9	30.05	40.563		
7,000.0	6,964.8	6,876.8	6,630.8	16.5	33.4	48.03	84.3	1,645.3	1,231.3	1,201.4	29.84	41.268		
7,100.0	7,059.3	6,969.8	6,719.9	16.5	33.9	55.41	84.6	1,672.0	1,239.0	1,209.7	29.29	42.297		
7,200.0	7,148.4	7,057.7	6,804.0	16.5	34.4	60.13	84.9	1,697.2	1,243.0	1,214.5	28.49	43.634		
7,300.0	7,230.4	7,138.7	6,881.6	16.4	34.9	63.98	85.2	1,720.5	1,244.5	1,217.0	27.53	45.199		
7,400.0	7,303.8	7,211.3	6,951.2	16.4	35.3	67.36	85.5	1,741.3	1,245.0	1,218.4	26.62	46.774		
7,500.0	7,367.2	7,274.1	7,011.3	16.5	35.6	70.27	85.7	1,759.4	1,246.0	1,220.0	25.99	47.948		
7,600.0	7,419.2	7,330.9	7,065.7	16.7	35.9	72.80	84.4	1,775.6	1,249.0	1,223.1	25.94	48.152		
7,700.0	7,459.0	7,363.5	7,096.8	17.1	36.1	74.02	81.6	1,784.9	1,255.6	1,229.0	26.64	47.137		
7,800.0	7,485.6	7,377.1	7,109.8	17.6	36.2	73.93	80.0	1,788.8	1,267.1	1,239.0	28.16	45.001		
7,900.0	7,498.6	7,377.4	7,110.1	18.2	36.2	72.72	79.9	1,788.9	1,283.6	1,253.3	30.37	42.264		
8,000.0	7,500.0	7,369.6	7,102.7	19.0	36.1	71.68	80.9	1,786.7	1,305.2	1,272.1	33.04	39.498		
8,100.0	7,500.0	7,362.4	7,095.8	19.9	36.1	71.36	81.7	1,784.6	1,333.5	1,297.6	35.95	37.095		
8,200.0	7,500.0	7,350.0	7,084.0	20.9	36.0	70.80	82.9	1,781.1	1,368.6	1,329.8	38.87	35.212		
8,300.0	7,500.0	7,350.0	7,084.0	22.0	36.0	70.80	82.9	1,781.1	1,409.8	1,368.1	41.79	33.738		
8,400.0	7,500.0	7,350.0	7,084.0	23.2	36.0	70.80	82.9	1,781.1	1,456.8	1,412.2	44.56	32.696		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4L-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-89.55	0.4	-49.8	49.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.55	0.4	-49.8	49.8	49.5	0.30	167.855		
200.0	200.0	200.0	200.0	0.3	0.3	-89.55	0.4	-49.8	49.8	49.2	0.65	77.123		
300.0	300.0	300.0	300.0	0.5	0.5	-89.55	0.4	-49.8	49.8	48.8	0.99	50.062		
400.0	400.0	400.0	400.0	0.7	0.7	-89.55	0.4	-49.8	49.8	48.5	1.34	37.059		
500.0	500.0	500.0	500.0	0.8	0.8	-89.55	0.4	-49.8	49.8	48.1	1.69	29.418 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	146.56	0.4	-49.8	50.5	48.5	2.04	24.743		
700.0	700.0	700.0	700.0	1.2	1.2	148.12	0.4	-49.8	52.7	50.3	2.39	22.046		
800.0	799.9	799.5	799.5	1.4	1.4	150.28	0.3	-50.0	56.6	53.9	2.74	20.655		
900.0	899.7	898.5	898.5	1.6	1.5	151.90	-0.8	-51.3	63.2	60.1	3.09	20.438		
1,000.0	999.4	997.3	997.2	1.8	1.7	152.83	-3.0	-54.0	72.6	69.1	3.45	21.055		
1,100.0	1,098.9	1,095.6	1,095.4	2.0	1.9	153.20	-6.1	-57.9	84.7	80.9	3.81	22.249		
1,200.0	1,198.4	1,193.5	1,193.1	2.2	2.1	153.04	-10.4	-63.2	98.7	94.6	4.17	23.680		
1,300.0	1,297.8	1,291.1	1,290.3	2.5	2.3	152.30	-15.6	-69.7	114.0	109.4	4.54	25.099		
1,400.0	1,397.3	1,389.6	1,388.3	2.7	2.5	151.39	-21.6	-77.1	130.0	125.0	4.92	26.413		
1,500.0	1,496.7	1,488.3	1,486.6	2.9	2.7	150.67	-27.6	-84.5	146.0	140.7	5.30	27.523		
1,600.0	1,596.1	1,587.0	1,584.8	3.2	2.9	150.10	-33.6	-92.0	162.1	156.4	5.69	28.472		
1,700.0	1,695.6	1,685.7	1,683.0	3.4	3.2	149.63	-39.6	-99.4	178.1	172.1	6.08	29.292		
1,800.0	1,795.0	1,784.4	1,781.2	3.7	3.4	149.23	-45.6	-106.9	194.2	187.8	6.47	30.006		
1,900.0	1,894.5	1,883.0	1,879.5	3.9	3.6	148.90	-51.6	-114.3	210.3	203.5	6.87	30.633		
2,000.0	1,993.9	1,981.7	1,977.7	4.2	3.8	148.61	-57.6	-121.7	226.4	219.2	7.26	31.188		
2,100.0	2,093.4	2,080.4	2,075.9	4.4	4.1	148.37	-63.6	-129.2	242.5	234.9	7.65	31.683		
2,200.0	2,192.8	2,179.1	2,174.1	4.6	4.3	148.15	-69.6	-136.6	258.6	250.6	8.05	32.125		
2,300.0	2,292.3	2,277.8	2,272.4	4.9	4.5	147.96	-75.6	-144.1	274.7	266.3	8.45	32.524		
2,400.0	2,391.7	2,376.5	2,370.6	5.1	4.8	147.79	-81.6	-151.5	290.9	282.0	8.84	32.885		
2,500.0	2,491.2	2,475.2	2,468.8	5.4	5.0	147.63	-87.6	-159.0	307.0	297.7	9.24	33.213		
2,600.0	2,590.6	2,573.9	2,567.0	5.6	5.2	147.50	-93.6	-166.4	323.1	313.4	9.64	33.513		
2,700.0	2,690.1	2,672.6	2,665.3	5.9	5.5	147.37	-99.7	-173.8	339.2	329.2	10.04	33.788		
2,800.0	2,789.5	2,771.3	2,763.5	6.1	5.7	147.26	-105.7	-181.3	355.3	344.9	10.44	34.040		
2,900.0	2,889.0	2,869.9	2,861.7	6.4	5.9	147.16	-111.7	-188.7	371.4	360.6	10.84	34.273		
3,000.0	2,988.4	2,968.6	2,959.9	6.6	6.2	147.06	-117.7	-196.2	387.6	376.3	11.24	34.489		
3,100.0	3,087.9	3,067.3	3,058.2	6.9	6.4	146.97	-123.7	-203.6	403.7	392.1	11.64	34.689		
3,200.0	3,187.3	3,166.0	3,156.4	7.2	6.6	146.89	-129.7	-211.1	419.8	407.8	12.04	34.875		
3,300.0	3,286.8	3,264.7	3,254.6	7.4	6.9	146.82	-135.7	-218.5	435.9	423.5	12.44	35.049		
3,400.0	3,386.2	3,363.4	3,352.8	7.7	7.1	146.75	-141.7	-225.9	452.1	439.2	12.84	35.211		
3,500.0	3,485.7	3,462.1	3,451.1	7.9	7.3	146.69	-147.7	-233.4	468.2	455.0	13.24	35.363		
3,600.0	3,585.1	3,560.8	3,549.3	8.2	7.6	146.63	-153.7	-240.8	484.3	470.7	13.64	35.506		
3,700.0	3,684.6	3,659.5	3,647.5	8.4	7.8	146.57	-159.7	-248.3	500.4	486.4	14.04	35.640		
3,800.0	3,784.0	3,758.2	3,745.7	8.7	8.1	146.52	-165.7	-255.7	516.6	502.1	14.44	35.767		
3,900.0	3,883.5	3,856.8	3,844.0	8.9	8.3	146.47	-171.7	-263.2	532.7	517.9	14.84	35.886		
4,000.0	3,982.9	3,955.5	3,942.2	9.2	8.5	146.42	-177.7	-270.6	548.8	533.6	15.25	35.999		
4,100.0	4,082.4	4,054.2	4,040.4	9.4	8.8	146.38	-183.7	-278.0	565.0	549.3	15.65	36.106		
4,200.0	4,181.8	4,152.9	4,138.6	9.7	9.0	146.34	-189.7	-285.5	581.1	565.0	16.05	36.207		
4,300.0	4,281.3	4,251.6	4,236.9	9.9	9.2	146.30	-195.7	-292.9	597.2	580.8	16.45	36.303		
4,400.0	4,380.7	4,350.3	4,335.1	10.2	9.5	146.26	-201.7	-300.4	613.3	596.5	16.85	36.395		
4,500.0	4,480.2	4,449.0	4,433.3	10.4	9.7	146.22	-207.7	-307.8	629.5	612.2	17.25	36.482		
4,600.0	4,579.6	4,547.7	4,531.6	10.7	10.0	146.19	-213.7	-315.3	645.6	628.0	17.66	36.564		
4,700.0	4,679.1	4,646.4	4,629.8	10.9	10.2	146.16	-219.7	-322.7	661.7	643.7	18.06	36.644		
4,800.0	4,778.5	4,745.1	4,728.0	11.2	10.4	146.13	-225.7	-330.1	677.9	659.4	18.46	36.719		
4,900.0	4,878.0	4,843.7	4,826.2	11.4	10.7	146.10	-231.7	-337.6	694.0	675.1	18.86	36.791		
5,000.0	4,977.4	4,942.4	4,924.5	11.7	10.9	146.07	-237.7	-345.0	710.1	690.9	19.27	36.860		
5,100.0	5,076.9	5,041.1	5,022.7	11.9	11.2	146.04	-243.7	-352.5	726.3	706.6	19.67	36.927		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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	
5,200.0	5,176.3	5,139.8	5,120.9	12.2	11.4	146.02	-249.7	-359.9	742.4	722.3	20.07	36.990	
5,300.0	5,275.8	5,238.5	5,219.1	12.4	11.6	146.00	-255.7	-367.4	758.5	738.1	20.47	37.051	
5,400.0	5,375.2	5,337.2	5,317.4	12.7	11.9	145.97	-261.7	-374.8	774.7	753.8	20.87	37.109	
5,500.0	5,474.7	5,435.9	5,415.6	12.9	12.1	145.95	-267.7	-382.2	790.8	769.5	21.28	37.166	
5,600.0	5,574.1	5,534.6	5,513.8	13.2	12.3	145.93	-273.7	-389.7	806.9	785.2	21.68	37.220	
5,700.0	5,673.6	5,633.3	5,612.0	13.5	12.6	145.91	-279.7	-397.1	823.0	801.0	22.08	37.272	
5,800.0	5,773.0	5,732.0	5,710.3	13.7	12.8	145.89	-285.7	-404.6	839.2	816.7	22.49	37.322	
5,900.0	5,872.5	5,830.6	5,808.5	14.0	13.1	145.87	-291.7	-412.0	855.3	832.4	22.89	37.370	
6,000.0	5,971.9	5,929.3	5,906.7	14.2	13.3	145.85	-297.7	-419.5	871.4	848.2	23.29	37.417	
6,100.0	6,071.4	6,028.0	6,004.9	14.5	13.5	145.83	-303.7	-426.9	887.6	863.9	23.69	37.461	
6,200.0	6,170.8	6,126.7	6,103.2	14.7	13.8	145.82	-309.7	-434.3	903.7	879.6	24.10	37.505	
6,300.0	6,270.3	6,225.4	6,201.4	15.0	14.0	145.80	-315.8	-441.8	919.8	895.3	24.50	37.547	
6,400.0	6,369.7	6,324.1	6,299.6	15.2	14.3	145.78	-321.8	-449.2	936.0	911.1	24.90	37.587	
6,500.0	6,469.2	6,422.8	6,397.8	15.5	14.5	145.77	-327.8	-456.7	952.1	926.8	25.30	37.627	
6,600.0	6,568.6	6,521.5	6,496.1	15.7	14.7	145.75	-333.8	-464.1	968.2	942.5	25.71	37.665	
6,700.0	6,668.1	6,620.2	6,594.3	16.0	15.0	145.74	-339.8	-471.6	984.4	958.3	26.11	37.701	
6,800.0	6,767.5	6,718.6	6,692.2	16.2	15.2	162.87	-345.4	-479.0	1,000.5	974.0	26.49	37.763	
6,900.0	6,867.0	6,815.9	6,789.2	16.4	15.4	-126.71	-341.9	-486.3	1,016.7	990.0	26.88	38.106	
7,000.0	6,964.8	6,913.4	6,884.9	16.5	15.4	-106.97	-325.2	-493.6	1,032.8	1,006.1	26.67	38.721	
7,100.0	7,059.3	7,011.2	6,977.7	16.5	15.4	-99.41	-295.5	-500.6	1,048.4	1,021.9	26.51	39.547	
7,200.0	7,148.4	7,109.4	7,066.0	16.5	15.4	-95.22	-253.3	-507.3	1,063.3	1,037.0	26.26	40.488	
7,300.0	7,230.4	7,208.0	7,148.0	16.4	15.3	-92.46	-199.0	-513.5	1,077.1	1,051.1	26.01	41.409	
7,400.0	7,303.8	7,307.1	7,222.2	16.4	15.3	-90.48	-133.7	-519.1	1,089.7	1,063.8	25.86	42.132	
7,500.0	7,367.2	7,406.8	7,287.0	16.5	15.4	-89.00	-58.2	-524.0	1,100.7	1,074.7	25.92	42.458	
7,600.0	7,419.2	7,507.0	7,341.0	16.7	15.6	-87.91	26.0	-528.1	1,109.9	1,083.6	26.29	42.215	
7,700.0	7,459.0	7,607.8	7,383.0	17.1	15.9	-87.13	117.5	-531.3	1,117.2	1,090.1	27.04	41.318	
7,800.0	7,485.6	7,709.1	7,411.9	17.6	16.4	-86.63	214.5	-533.5	1,122.4	1,094.2	28.19	39.810	
7,900.0	7,498.6	7,810.8	7,426.9	18.2	17.1	-86.40	315.0	-534.6	1,125.4	1,095.6	29.74	37.845	
8,000.0	7,500.0	7,911.8	7,429.0	19.0	17.9	-86.39	416.0	-534.8	1,126.5	1,094.9	31.60	35.645	
8,100.0	7,500.0	8,011.8	7,429.0	19.9	18.9	-86.39	516.0	-534.8	1,127.3	1,093.6	33.72	33.436	
8,200.0	7,500.0	8,111.8	7,429.0	20.9	19.9	-86.39	616.0	-534.8	1,128.2	1,092.2	36.05	31.299	
8,300.0	7,500.0	8,211.8	7,429.0	22.0	21.1	-86.39	716.0	-534.8	1,129.1	1,090.5	38.55	29.285	
8,400.0	7,500.0	8,311.8	7,429.0	23.2	22.3	-86.40	816.0	-534.8	1,130.0	1,088.7	41.21	27.421	
8,500.0	7,500.0	8,411.8	7,429.0	24.4	23.6	-86.40	916.0	-534.8	1,130.8	1,086.8	43.98	25.712	
8,600.0	7,500.0	8,511.8	7,429.0	25.7	24.9	-86.40	1,016.0	-534.8	1,131.7	1,084.8	46.85	24.156	
8,700.0	7,500.0	8,611.8	7,429.0	27.1	26.3	-86.41	1,116.0	-534.8	1,132.6	1,082.8	49.80	22.742	
8,800.0	7,500.0	8,711.8	7,429.0	28.5	27.8	-86.41	1,216.0	-534.8	1,133.4	1,080.6	52.82	21.459	
8,900.0	7,500.0	8,811.8	7,429.0	29.9	29.2	-86.41	1,316.0	-534.8	1,134.3	1,078.4	55.89	20.294	
9,000.0	7,500.0	8,911.8	7,429.0	31.4	30.7	-86.41	1,416.0	-534.8	1,135.2	1,076.2	59.02	19.235	
9,100.0	7,500.0	9,011.8	7,429.0	32.9	32.3	-86.42	1,515.9	-534.8	1,136.1	1,073.9	62.18	18.271	
9,200.0	7,500.0	9,111.8	7,429.0	34.4	33.8	-86.42	1,615.9	-534.8	1,136.9	1,071.5	65.38	17.391	
9,300.0	7,500.0	9,211.8	7,429.0	36.0	35.4	-86.42	1,715.9	-534.8	1,137.8	1,069.2	68.60	16.585	
9,400.0	7,500.0	9,311.8	7,429.0	37.5	37.0	-86.42	1,815.9	-534.8	1,138.7	1,066.8	71.86	15.847	
9,500.0	7,500.0	9,411.8	7,429.0	39.1	38.6	-86.43	1,915.9	-534.8	1,139.5	1,064.4	75.13	15.167	
9,600.0	7,500.0	9,511.8	7,429.0	40.7	40.2	-86.43	2,015.9	-534.8	1,140.4	1,062.0	78.43	14.541	
9,700.0	7,500.0	9,611.8	7,429.0	42.3	41.8	-86.43	2,115.9	-534.8	1,141.3	1,059.5	81.74	13.963	
9,800.0	7,500.0	9,711.8	7,429.0	43.9	43.4	-86.44	2,215.9	-534.8	1,142.1	1,057.1	85.06	13.427	
9,900.0	7,500.0	9,811.8	7,429.0	45.6	45.1	-86.43	2,315.9	-534.8	1,141.9	1,053.5	88.40	12.916	
10,000.0	7,500.0	9,911.8	7,429.0	47.2	46.7	-86.43	2,415.9	-534.8	1,141.0	1,049.3	91.76	12.435	
10,100.0	7,500.0	10,011.8	7,429.0	48.8	48.4	-86.43	2,515.9	-534.8	1,140.2	1,045.0	95.12	11.987	
10,200.0	7,500.0	10,111.8	7,429.0	50.5	50.0	-86.43	2,615.9	-534.8	1,139.3	1,040.8	98.49	11.568	
10,300.0	7,500.0	10,211.8	7,429.0	52.1	51.7	-86.42	2,715.9	-534.8	1,138.5	1,036.6	101.87	11.175	

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 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		
10,400.0	7,500.0	10,311.7	7,429.0	53.8	53.4	-86.42	2,815.9	-534.8	1,137.6	1,032.3	105.26	10.807		
10,500.0	7,500.0	10,411.7	7,429.0	55.5	55.1	-86.42	2,915.9	-534.8	1,136.8	1,028.1	108.66	10.462		
10,600.0	7,500.0	10,511.7	7,429.0	57.1	56.8	-86.42	3,015.9	-534.8	1,135.9	1,023.8	112.06	10.137		
10,700.0	7,500.0	10,611.7	7,429.0	58.8	58.4	-86.41	3,115.9	-534.8	1,135.1	1,019.6	115.47	9.830		
10,800.0	7,500.0	10,711.7	7,429.0	60.5	60.1	-86.41	3,215.9	-534.8	1,134.2	1,015.3	118.88	9.540		
10,900.0	7,500.0	10,811.7	7,429.0	62.2	61.8	-86.41	3,315.9	-534.8	1,133.3	1,011.0	122.30	9.267		
11,000.0	7,500.0	10,911.7	7,429.0	63.9	63.5	-86.41	3,415.9	-534.8	1,132.5	1,006.8	125.72	9.008		
11,100.0	7,500.0	11,009.2	7,429.0	65.6	65.2	-86.40	3,513.3	-534.8	1,131.7	1,002.6	129.10	8.766		
11,143.0	7,500.0	11,045.1	7,429.0	66.3	65.8	-86.40	3,549.3	-535.0	1,131.5	1,001.1	130.44	8.675		
11,200.0	7,500.0	11,100.0	7,429.0	67.3	66.7	-86.40	3,604.1	-535.7	1,131.8	999.4	132.36	8.551		
11,300.0	7,500.0	11,176.2	7,429.0	69.0	68.0	-86.41	3,680.3	-537.6	1,133.3	998.0	135.29	8.377		
11,400.0	7,500.0	11,259.7	7,429.0	70.7	69.5	-86.42	3,763.7	-540.8	1,136.3	998.0	138.35	8.214		
11,500.0	7,500.0	11,353.7	7,429.0	72.4	71.1	-86.43	3,857.6	-545.6	1,140.5	998.9	141.64	8.052		
11,600.0	7,500.0	11,453.6	7,429.0	74.1	72.8	-86.44	3,957.4	-550.7	1,144.7	999.7	145.08	7.890		
11,700.0	7,500.0	11,553.5	7,429.0	75.8	74.5	-86.45	4,057.2	-555.8	1,149.0	1,000.5	148.53	7.736		
11,800.0	7,500.0	11,653.4	7,429.0	77.5	76.3	-86.47	4,156.9	-560.9	1,153.3	1,001.3	151.98	7.588		
11,845.2	7,500.0	11,698.6	7,429.0	78.3	77.0	-86.47	4,202.0	-563.2	1,155.2	1,001.7	153.54	7.524 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-89.43	0.4	-40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.43	0.4	-40.0	40.0	39.7	0.30	134.852		
200.0	200.0	200.0	200.0	0.3	0.3	-89.43	0.4	-40.0	40.0	39.4	0.65	61.959		
300.0	300.0	300.0	300.0	0.5	0.5	-89.43	0.4	-40.0	40.0	39.0	0.99	40.219		
400.0	400.0	400.0	400.0	0.7	0.7	-89.43	0.4	-40.0	40.0	38.7	1.34	29.773		
500.0	500.0	500.0	500.0	0.8	0.8	-89.43	0.4	-40.0	40.0	38.3	1.69	23.634 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	146.81	0.4	-40.0	40.7	38.7	2.04	19.949		
700.0	700.0	700.0	700.0	1.2	1.2	148.71	0.4	-40.0	43.0	40.6	2.39	17.957		
800.0	799.9	799.9	799.9	1.4	1.4	151.47	0.4	-40.0	46.7	44.0	2.74	17.040		
900.0	899.7	899.2	899.2	1.6	1.5	153.85	-0.2	-40.6	52.7	49.6	3.09	17.024		
1,000.0	999.4	998.3	998.2	1.8	1.7	155.04	-2.1	-42.3	61.2	57.7	3.45	17.751		
1,100.0	1,098.9	1,097.0	1,096.9	2.0	1.9	155.33	-5.3	-45.2	72.2	68.4	3.80	18.982		
1,200.0	1,198.4	1,195.5	1,195.1	2.2	2.1	154.86	-9.6	-49.3	85.0	80.8	4.17	20.391		
1,300.0	1,297.8	1,293.8	1,293.2	2.5	2.3	153.69	-15.2	-54.4	98.7	94.2	4.54	21.740		
1,400.0	1,397.3	1,392.8	1,391.8	2.7	2.5	152.56	-21.3	-60.0	112.8	107.9	4.92	22.922		
1,500.0	1,496.7	1,491.7	1,490.4	2.9	2.7	151.68	-27.4	-65.6	127.0	121.7	5.31	23.924		
1,600.0	1,596.1	1,590.7	1,589.1	3.2	2.9	150.97	-33.4	-71.2	141.1	135.4	5.69	24.782		
1,700.0	1,695.6	1,689.7	1,687.7	3.4	3.1	150.39	-39.5	-76.7	155.3	149.2	6.08	25.524		
1,800.0	1,795.0	1,788.7	1,786.3	3.7	3.3	149.91	-45.5	-82.3	169.5	163.0	6.48	26.171		
1,900.0	1,894.5	1,887.6	1,885.0	3.9	3.5	149.51	-51.6	-87.9	183.7	176.8	6.87	26.739		
2,000.0	1,993.9	1,986.6	1,983.6	4.2	3.7	149.16	-57.7	-93.5	197.9	190.6	7.26	27.241		
2,100.0	2,093.4	2,085.6	2,082.2	4.4	3.9	148.86	-63.7	-99.1	212.1	204.5	7.66	27.689		
2,200.0	2,192.8	2,184.6	2,180.9	4.6	4.2	148.60	-69.8	-104.7	226.3	218.3	8.06	28.090		
2,300.0	2,292.3	2,283.6	2,279.5	4.9	4.4	148.36	-75.8	-110.2	240.6	232.1	8.46	28.451		
2,400.0	2,391.7	2,382.5	2,378.2	5.1	4.6	148.16	-81.9	-115.8	254.8	245.9	8.85	28.778		
2,500.0	2,491.2	2,481.5	2,476.8	5.4	4.8	147.97	-88.0	-121.4	269.0	259.8	9.25	29.075		
2,600.0	2,590.6	2,580.5	2,575.4	5.6	5.0	147.81	-94.0	-127.0	283.2	273.6	9.65	29.347		
2,700.0	2,690.1	2,679.5	2,674.1	5.9	5.3	147.66	-100.1	-132.6	297.5	287.4	10.05	29.595		
2,800.0	2,789.5	2,778.5	2,772.7	6.1	5.5	147.52	-106.2	-138.2	311.7	301.3	10.45	29.824		
2,900.0	2,889.0	2,877.4	2,871.3	6.4	5.7	147.39	-112.2	-143.7	325.9	315.1	10.85	30.035		
3,000.0	2,988.4	2,976.4	2,970.0	6.6	5.9	147.28	-118.3	-149.3	340.2	328.9	11.25	30.230		
3,100.0	3,087.9	3,075.4	3,068.6	6.9	6.1	147.18	-124.3	-154.9	354.4	342.8	11.65	30.411		
3,200.0	3,187.3	3,174.4	3,167.2	7.2	6.4	147.08	-130.4	-160.5	368.7	356.6	12.06	30.580		
3,300.0	3,286.8	3,273.4	3,265.9	7.4	6.6	146.99	-136.5	-166.1	382.9	370.4	12.46	30.737		
3,400.0	3,386.2	3,372.3	3,364.5	7.7	6.8	146.91	-142.5	-171.7	397.1	384.3	12.86	30.883		
3,500.0	3,485.7	3,471.3	3,463.1	7.9	7.0	146.83	-148.6	-177.2	411.4	398.1	13.26	31.021		
3,600.0	3,585.1	3,570.3	3,561.8	8.2	7.3	146.76	-154.7	-182.8	425.6	412.0	13.66	31.150		
3,700.0	3,684.6	3,669.3	3,660.4	8.4	7.5	146.69	-160.7	-188.4	439.9	425.8	14.07	31.272		
3,800.0	3,784.0	3,768.2	3,759.0	8.7	7.7	146.63	-166.8	-194.0	454.1	439.6	14.47	31.386		
3,900.0	3,883.5	3,867.2	3,857.7	8.9	7.9	146.57	-172.8	-199.6	468.4	453.5	14.87	31.494		
4,000.0	3,982.9	3,966.2	3,956.3	9.2	8.1	146.51	-178.9	-205.2	482.6	467.3	15.27	31.596		
4,100.0	4,082.4	4,065.2	4,055.0	9.4	8.4	146.46	-185.0	-210.7	496.8	481.2	15.68	31.693		
4,200.0	4,181.8	4,164.2	4,153.6	9.7	8.6	146.41	-191.0	-216.3	511.1	495.0	16.08	31.784		
4,300.0	4,281.3	4,263.1	4,252.2	9.9	8.8	146.36	-197.1	-221.9	525.3	508.9	16.48	31.871		
4,400.0	4,380.7	4,362.1	4,350.9	10.2	9.0	146.32	-203.2	-227.5	539.6	522.7	16.89	31.954		
4,500.0	4,480.2	4,461.1	4,449.5	10.4	9.3	146.27	-209.2	-233.1	553.8	536.5	17.29	32.032		
4,600.0	4,579.6	4,560.1	4,548.1	10.7	9.5	146.23	-215.3	-238.7	568.1	550.4	17.69	32.107		
4,700.0	4,679.1	4,659.1	4,646.8	10.9	9.7	146.20	-221.3	-244.2	582.3	564.2	18.10	32.179		
4,800.0	4,778.5	4,758.0	4,745.4	11.2	9.9	146.16	-227.4	-249.8	596.6	578.1	18.50	32.247		
4,900.0	4,878.0	4,857.0	4,844.0	11.4	10.2	146.12	-233.5	-255.4	610.8	591.9	18.90	32.312		
5,000.0	4,977.4	4,956.0	4,942.7	11.7	10.4	146.09	-239.5	-261.0	625.1	605.8	19.31	32.375		
5,100.0	5,076.9	5,055.0	5,041.3	11.9	10.6	146.06	-245.6	-266.6	639.3	619.6	19.71	32.434		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,154.0	5,139.9	12.2	10.8	146.03	-251.7	-272.2	653.6	633.5	20.11	32.492		
5,300.0	5,275.8	5,252.9	5,238.6	12.4	11.0	146.00	-257.7	-277.7	667.8	647.3	20.52	32.547		
5,400.0	5,375.2	5,351.9	5,337.2	12.7	11.3	145.97	-263.8	-283.3	682.1	661.1	20.92	32.600		
5,500.0	5,474.7	5,450.9	5,435.8	12.9	11.5	145.95	-269.8	-288.9	696.3	675.0	21.33	32.650		
5,600.0	5,574.1	5,549.9	5,534.5	13.2	11.7	145.92	-275.9	-294.5	710.6	688.8	21.73	32.699		
5,700.0	5,673.6	5,648.9	5,633.1	13.5	11.9	145.90	-282.0	-300.1	724.8	702.7	22.13	32.746		
5,800.0	5,773.0	5,747.8	5,731.8	13.7	12.2	145.87	-288.0	-305.7	739.1	716.5	22.54	32.791		
5,900.0	5,872.5	5,846.8	5,830.4	14.0	12.4	145.85	-294.1	-311.3	753.3	730.4	22.94	32.835		
6,000.0	5,971.9	5,945.8	5,929.0	14.2	12.6	145.83	-300.2	-316.8	767.6	744.2	23.35	32.877		
6,100.0	6,071.4	6,044.8	6,027.7	14.5	12.8	145.81	-306.2	-322.4	781.8	758.1	23.75	32.917		
6,200.0	6,170.8	6,143.7	6,126.3	14.7	13.1	145.79	-312.3	-328.0	796.1	771.9	24.15	32.957		
6,300.0	6,270.3	6,242.7	6,224.9	15.0	13.3	145.77	-318.3	-333.6	810.3	785.8	24.56	32.994		
6,400.0	6,369.7	6,341.7	6,323.6	15.2	13.5	145.75	-324.4	-339.2	824.6	799.6	24.96	33.031		
6,500.0	6,469.2	6,440.7	6,422.2	15.5	13.7	145.73	-330.5	-344.8	838.8	813.4	25.37	33.066		
6,600.0	6,568.6	6,539.7	6,520.8	15.7	14.0	145.71	-336.5	-350.3	853.1	827.3	25.77	33.101		
6,700.0	6,668.1	6,638.6	6,619.5	16.0	14.2	145.69	-342.6	-355.9	867.3	841.1	26.18	33.134		
6,800.0	6,767.5	6,737.1	6,717.7	16.2	14.4	162.87	-347.0	-361.5	881.6	855.0	26.54	33.213		
6,900.0	6,867.0	6,834.7	6,814.7	16.4	14.5	-126.64	-339.9	-367.0	895.9	869.3	26.70	33.561		
7,000.0	6,964.8	6,931.9	6,909.6	16.5	14.5	-106.82	-319.7	-372.3	910.2	883.6	26.66	34.146		
7,100.0	7,059.3	7,028.9	7,000.7	16.5	14.5	-99.20	-286.9	-377.5	924.1	897.6	26.47	34.905		
7,200.0	7,148.4	7,125.8	7,086.4	16.5	14.4	-94.96	-242.2	-382.4	937.3	911.1	26.22	35.751		
7,300.0	7,230.4	7,222.7	7,165.3	16.4	14.3	-92.14	-186.3	-386.8	949.6	923.7	25.97	36.561		
7,400.0	7,303.8	7,319.5	7,236.0	16.4	14.3	-90.11	-120.3	-390.8	960.8	934.9	25.84	37.179		
7,500.0	7,367.2	7,416.5	7,297.2	16.5	14.3	-88.60	-45.2	-394.3	970.6	944.6	25.92	37.439		
7,600.0	7,419.2	7,513.7	7,347.8	16.7	14.5	-87.47	37.6	-397.1	978.8	952.5	26.31	37.199		
7,700.0	7,459.0	7,611.0	7,386.8	17.1	14.9	-86.67	126.7	-399.4	985.3	958.2	27.07	36.401		
7,800.0	7,485.6	7,708.6	7,413.4	17.6	15.4	-86.16	220.4	-400.9	989.9	961.7	28.21	35.089		
7,900.0	7,498.6	7,806.3	7,427.1	18.2	16.1	-85.92	317.1	-401.6	992.7	962.9	29.73	33.392		
8,000.0	7,500.0	7,905.2	7,429.0	19.0	17.0	-85.90	416.0	-401.7	993.7	962.1	31.57	31.477		
8,100.0	7,500.0	8,005.2	7,429.0	19.9	18.0	-85.91	516.0	-401.7	994.6	960.9	33.68	29.528		
8,200.0	7,500.0	8,105.2	7,429.0	20.9	19.1	-85.91	616.0	-401.7	995.5	959.4	36.01	27.641		
8,300.0	7,500.0	8,205.2	7,429.0	22.0	20.3	-85.91	716.0	-401.7	996.3	957.8	38.52	25.865		
8,400.0	7,500.0	8,305.2	7,429.0	23.2	21.5	-85.92	816.0	-401.7	997.2	956.0	41.17	24.219		
8,500.0	7,500.0	8,405.2	7,429.0	24.4	22.9	-85.92	916.0	-401.7	998.1	954.1	43.95	22.712		
8,600.0	7,500.0	8,505.2	7,429.0	25.7	24.3	-85.92	1,016.0	-401.7	998.9	952.1	46.81	21.338		
8,700.0	7,500.0	8,605.2	7,429.0	27.1	25.7	-85.93	1,116.0	-401.7	999.8	950.0	49.76	20.091		
8,800.0	7,500.0	8,705.2	7,429.0	28.5	27.2	-85.93	1,216.0	-401.7	1,000.7	947.9	52.78	18.959		
8,900.0	7,500.0	8,805.2	7,429.0	29.9	28.7	-85.93	1,316.0	-401.7	1,001.6	945.7	55.85	17.931		
9,000.0	7,500.0	8,905.2	7,429.0	31.4	30.2	-85.94	1,416.0	-401.7	1,002.4	943.4	58.98	16.997		
9,100.0	7,500.0	9,005.2	7,429.0	32.9	31.7	-85.94	1,515.9	-401.7	1,003.3	941.2	62.14	16.147		
9,200.0	7,500.0	9,105.2	7,429.0	34.4	33.3	-85.95	1,615.9	-401.7	1,004.2	938.8	65.33	15.370		
9,300.0	7,500.0	9,205.2	7,429.0	36.0	34.9	-85.95	1,715.9	-401.7	1,005.0	936.5	68.56	14.660		
9,400.0	7,500.0	9,305.2	7,429.0	37.5	36.5	-85.95	1,815.9	-401.7	1,005.9	934.1	71.81	14.008		
9,500.0	7,500.0	9,405.2	7,429.0	39.1	38.1	-85.96	1,915.9	-401.7	1,006.8	931.7	75.08	13.409		
9,600.0	7,500.0	9,505.2	7,429.0	40.7	39.8	-85.96	2,015.9	-401.7	1,007.6	929.3	78.38	12.857		
9,700.0	7,500.0	9,605.2	7,429.0	42.3	41.4	-85.96	2,115.9	-401.7	1,008.5	926.8	81.69	12.346		
9,800.0	7,500.0	9,705.2	7,429.0	43.9	43.0	-85.97	2,215.9	-401.7	1,009.4	924.3	85.01	11.873		
9,900.0	7,500.0	9,805.2	7,429.0	45.6	44.7	-85.97	2,315.9	-401.7	1,009.1	920.8	88.35	11.422		
10,000.0	7,500.0	9,905.2	7,429.0	47.2	46.4	-85.96	2,415.9	-401.7	1,008.3	916.6	91.70	10.995		
10,100.0	7,500.0	10,005.2	7,429.0	48.8	48.0	-85.96	2,515.9	-401.7	1,007.4	912.3	95.06	10.597		
10,200.0	7,500.0	10,105.2	7,429.0	50.5	49.7	-85.95	2,615.9	-401.7	1,006.6	908.1	98.43	10.226		
10,300.0	7,500.0	10,205.2	7,429.0	52.1	51.4	-85.95	2,715.9	-401.7	1,005.7	903.9	101.81	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 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4M-32H-O268 - OH - PLAN #1											Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,500.0	10,305.1	7,429.0	53.8	53.1	-85.95	2,815.9	-401.7	1,004.9	899.7	105.20	9.552		
10,500.0	7,500.0	10,405.1	7,429.0	55.5	54.8	-85.94	2,915.9	-401.7	1,004.0	895.4	108.59	9.245		
10,600.0	7,500.0	10,505.1	7,429.0	57.1	56.5	-85.94	3,015.9	-401.7	1,003.1	891.2	111.99	8.957		
10,700.0	7,500.0	10,605.1	7,429.0	58.8	58.2	-85.94	3,115.9	-401.7	1,002.3	886.9	115.40	8.685		
10,800.0	7,500.0	10,705.1	7,429.0	60.5	59.9	-85.93	3,215.9	-401.7	1,001.4	882.6	118.81	8.429		
10,900.0	7,500.0	10,805.1	7,429.0	62.2	61.6	-85.93	3,315.9	-401.7	1,000.6	878.4	122.23	8.186		
11,000.0	7,500.0	10,905.1	7,429.0	63.9	63.3	-85.93	3,415.9	-401.7	999.7	874.1	125.65	7.957		
11,100.0	7,500.0	11,005.1	7,429.0	65.6	65.0	-85.92	3,515.9	-401.7	998.9	869.8	129.08	7.739		
11,200.0	7,500.0	11,105.1	7,429.0	67.3	66.7	-85.92	3,615.9	-401.7	998.0	865.5	132.50	7.532		
11,300.0	7,500.0	11,205.1	7,429.0	69.0	68.4	-85.92	3,715.9	-401.7	997.2	861.2	135.94	7.336		
11,400.0	7,500.0	11,305.1	7,429.0	70.7	70.1	-85.91	3,815.9	-401.7	996.3	857.0	139.37	7.149		
11,500.0	7,500.0	11,405.1	7,429.0	72.4	71.8	-85.91	3,915.9	-401.7	995.5	852.7	142.81	6.971		
11,600.0	7,500.0	11,505.1	7,429.0	74.1	73.6	-85.91	4,015.9	-401.7	994.6	848.4	146.25	6.801		
11,700.0	7,500.0	11,605.1	7,429.0	75.8	75.3	-85.90	4,115.9	-401.7	993.8	844.1	149.70	6.639		
11,800.0	7,500.0	11,705.1	7,429.0	77.5	77.0	-85.90	4,215.9	-401.7	992.9	839.8	153.14	6.484		
11,845.2	7,500.0	11,750.3	7,429.0	78.3	77.8	-85.90	4,261.1	-401.7	992.5	837.8	154.70	6.416 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	-89.99	0.0	-29.9	29.9				
100.0	100.0	100.0	100.0	0.1	0.1	-89.99	0.0	-29.9	29.9	29.6	0.30	100.898	
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-29.9	29.9	29.3	0.65	46.359	
300.0	300.0	300.0	300.0	0.5	0.5	-89.99	0.0	-29.9	29.9	28.9	0.99	30.093	
400.0	400.0	400.0	400.0	0.7	0.7	-89.99	0.0	-29.9	29.9	28.6	1.34	22.276	
500.0	500.0	500.0	500.0	0.8	0.8	-89.99	0.0	-29.9	29.9	28.2	1.69	17.683 CC, ES	
600.0	600.0	600.0	600.0	1.0	1.0	146.49	0.0	-29.9	30.7	28.6	2.04	15.014	
700.0	700.0	699.9	699.9	1.2	1.2	148.63	-0.2	-30.0	32.9	30.5	2.39	13.768	
800.0	799.9	799.6	799.6	1.4	1.4	149.52	-1.9	-30.6	37.1	34.4	2.74	13.530	
900.0	899.7	899.3	899.2	1.6	1.5	149.12	-5.1	-31.6	43.2	40.1	3.10	13.948	
1,000.0	999.4	998.8	998.6	1.8	1.7	147.98	-10.0	-33.3	51.3	47.8	3.47	14.802	
1,100.0	1,098.9	1,098.3	1,097.9	2.0	1.9	147.52	-15.5	-35.1	61.0	57.2	3.84	15.886	
1,200.0	1,198.4	1,197.8	1,197.2	2.2	2.1	147.62	-20.9	-36.9	71.5	67.2	4.22	16.943	
1,300.0	1,297.8	1,297.2	1,296.5	2.5	2.3	147.69	-26.3	-38.7	81.9	77.3	4.60	17.813	
1,400.0	1,397.3	1,396.7	1,395.8	2.7	2.5	147.74	-31.7	-40.5	92.4	87.4	4.98	18.541	
1,500.0	1,496.7	1,496.1	1,495.1	2.9	2.7	147.78	-37.1	-42.3	102.8	97.5	5.37	19.157	
1,600.0	1,596.1	1,595.6	1,594.4	3.2	2.9	147.82	-42.5	-44.1	113.3	107.5	5.76	19.686	
1,700.0	1,695.6	1,695.0	1,693.7	3.4	3.1	147.85	-48.0	-45.9	123.8	117.6	6.14	20.143	
1,800.0	1,795.0	1,794.5	1,792.9	3.7	3.3	147.87	-53.4	-47.7	134.2	127.7	6.53	20.543	
1,900.0	1,894.5	1,893.9	1,892.2	3.9	3.5	147.90	-58.8	-49.5	144.7	137.7	6.92	20.895	
2,000.0	1,993.9	1,993.4	1,991.5	4.2	3.7	147.91	-64.2	-51.3	155.1	147.8	7.31	21.208	
2,100.0	2,093.4	2,092.8	2,090.8	4.4	3.9	147.93	-69.6	-53.1	165.6	157.9	7.71	21.486	
2,200.0	2,192.8	2,192.3	2,190.1	4.6	4.1	147.94	-75.0	-54.9	176.0	167.9	8.10	21.737	
2,300.0	2,292.3	2,291.7	2,289.4	4.9	4.3	147.96	-80.5	-56.7	186.5	178.0	8.49	21.963	
2,400.0	2,391.7	2,391.2	2,388.7	5.1	4.5	147.97	-85.9	-58.5	197.0	188.1	8.88	22.168	
2,500.0	2,491.2	2,490.6	2,488.0	5.4	4.7	147.98	-91.3	-60.3	207.4	198.1	9.28	22.355	
2,600.0	2,590.6	2,590.1	2,587.2	5.6	4.8	147.99	-96.7	-62.1	217.9	208.2	9.67	22.526	
2,700.0	2,690.1	2,689.5	2,686.5	5.9	5.0	148.00	-102.1	-63.9	228.3	218.3	10.07	22.683	
2,800.0	2,789.5	2,789.0	2,785.8	6.1	5.2	148.00	-107.5	-65.7	238.8	228.3	10.46	22.828	
2,900.0	2,889.0	2,888.4	2,885.1	6.4	5.4	148.01	-113.0	-67.5	249.2	238.4	10.86	22.961	
3,000.0	2,988.4	2,987.9	2,984.4	6.6	5.6	148.02	-118.4	-69.3	259.7	248.5	11.25	23.085	
3,100.0	3,087.9	3,087.3	3,083.7	6.9	5.8	148.02	-123.8	-71.1	270.2	258.5	11.64	23.201	
3,200.0	3,187.3	3,186.8	3,183.0	7.2	6.0	148.03	-129.2	-72.9	280.6	268.6	12.04	23.308	
3,300.0	3,286.8	3,286.2	3,282.3	7.4	6.2	148.03	-134.6	-74.7	291.1	278.6	12.44	23.408	
3,400.0	3,386.2	3,385.7	3,381.5	7.7	6.4	148.04	-140.1	-76.5	301.5	288.7	12.83	23.502	
3,500.0	3,485.7	3,485.1	3,480.8	7.9	6.6	148.04	-145.5	-78.3	312.0	298.8	13.23	23.590	
3,600.0	3,585.1	3,584.6	3,580.1	8.2	6.8	148.05	-150.9	-80.1	322.5	308.8	13.62	23.673	
3,700.0	3,684.6	3,684.0	3,679.4	8.4	7.0	148.05	-156.3	-81.9	332.9	318.9	14.02	23.750	
3,800.0	3,784.0	3,783.5	3,778.7	8.7	7.2	148.05	-161.7	-83.7	343.4	329.0	14.41	23.824	
3,900.0	3,883.5	3,882.9	3,878.0	8.9	7.4	148.06	-167.1	-85.5	353.8	339.0	14.81	23.893	
4,000.0	3,982.9	3,982.4	3,977.3	9.2	7.6	148.06	-172.6	-87.3	364.3	349.1	15.20	23.959	
4,100.0	4,082.4	4,081.9	4,076.6	9.4	7.8	148.06	-178.0	-89.1	374.7	359.1	15.60	24.021	
4,200.0	4,181.8	4,181.3	4,175.8	9.7	8.0	148.07	-183.4	-90.9	385.2	369.2	16.00	24.080	
4,300.0	4,281.3	4,280.8	4,275.1	9.9	8.2	148.07	-188.8	-92.7	395.7	379.3	16.39	24.136	
4,400.0	4,380.7	4,380.2	4,374.4	10.2	8.4	148.07	-194.2	-94.5	406.1	389.3	16.79	24.190	
4,500.0	4,480.2	4,479.7	4,473.7	10.4	8.6	148.07	-199.6	-96.3	416.6	399.4	17.19	24.241	
4,600.0	4,579.6	4,579.1	4,573.0	10.7	8.8	148.08	-205.1	-98.1	427.0	409.5	17.58	24.289	
4,700.0	4,679.1	4,678.6	4,672.3	10.9	9.0	148.08	-210.5	-99.8	437.5	419.5	17.98	24.335	
4,800.0	4,778.5	4,778.0	4,771.6	11.2	9.2	148.08	-215.9	-101.6	447.9	429.6	18.37	24.380	
4,900.0	4,878.0	4,877.5	4,870.9	11.4	9.4	148.08	-221.3	-103.4	458.4	439.6	18.77	24.422	
5,000.0	4,977.4	4,976.9	4,970.1	11.7	9.6	148.09	-226.7	-105.2	468.9	449.7	19.17	24.462	
5,100.0	5,076.9	5,076.4	5,069.4	11.9	9.8	148.09	-232.1	-107.0	479.3	459.8	19.56	24.501	

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,175.8	5,168.7	12.2	10.0	148.09	-237.6	-108.8	489.8	469.8	19.96	24.538		
5,300.0	5,275.8	5,275.3	5,268.0	12.4	10.2	148.09	-243.0	-110.6	500.2	479.9	20.36	24.574		
5,400.0	5,375.2	5,374.7	5,367.3	12.7	10.4	148.09	-248.4	-112.4	510.7	489.9	20.75	24.609		
5,500.0	5,474.7	5,474.2	5,466.6	12.9	10.6	148.09	-253.8	-114.2	521.2	500.0	21.15	24.642		
5,600.0	5,574.1	5,573.6	5,565.9	13.2	10.8	148.10	-259.2	-116.0	531.6	510.1	21.55	24.673		
5,700.0	5,673.6	5,673.1	5,665.2	13.5	11.0	148.10	-264.7	-117.8	542.1	520.1	21.94	24.704		
5,800.0	5,773.0	5,772.5	5,764.4	13.7	11.2	148.10	-270.1	-119.6	552.5	530.2	22.34	24.734		
5,900.0	5,872.5	5,872.0	5,863.7	14.0	11.4	148.10	-275.5	-121.4	563.0	540.3	22.74	24.762		
6,000.0	5,971.9	5,971.4	5,963.0	14.2	11.6	148.10	-280.9	-123.2	573.4	550.3	23.13	24.789		
6,100.0	6,071.4	6,070.9	6,062.3	14.5	11.8	148.10	-286.3	-125.0	583.9	560.4	23.53	24.816		
6,200.0	6,170.8	6,170.3	6,161.6	14.7	12.0	148.10	-291.7	-126.8	594.4	570.4	23.93	24.842		
6,300.0	6,270.3	6,269.8	6,260.9	15.0	12.2	148.10	-297.2	-128.6	604.8	580.5	24.32	24.866		
6,400.0	6,369.7	6,369.2	6,360.2	15.2	12.4	148.11	-302.6	-130.4	615.3	590.6	24.72	24.890		
6,500.0	6,469.2	6,468.7	6,459.5	15.5	12.6	148.11	-308.0	-132.2	625.7	600.6	25.12	24.913		
6,600.0	6,568.6	6,568.1	6,558.7	15.7	12.8	148.11	-313.4	-134.0	636.2	610.7	25.51	24.936		
6,700.0	6,668.1	6,667.6	6,658.0	16.0	13.0	148.11	-318.8	-135.8	646.7	620.7	25.91	24.958		
6,800.0	6,767.5	6,767.0	6,757.3	16.2	13.2	165.12	-324.2	-137.6	657.1	630.8	26.30	24.982		
6,900.0	6,867.0	6,865.9	6,856.1	16.4	13.4	-125.79	-329.6	-139.4	667.2	640.6	26.65	25.041		
7,000.0	6,964.8	6,962.5	6,952.5	16.5	13.6	-108.41	-334.9	-141.2	677.4	650.4	26.95	25.140		
7,100.0	7,059.3	7,059.4	7,049.2	16.5	13.7	-103.65	-334.2	-142.9	688.4	661.3	27.11	25.391		
7,200.0	7,148.4	7,160.8	7,149.5	16.5	13.8	-102.17	-319.5	-144.7	700.4	673.3	27.10	25.841		
7,300.0	7,230.4	7,267.3	7,251.5	16.4	13.7	-101.97	-289.0	-146.6	712.9	686.0	26.94	26.459		
7,400.0	7,303.8	7,379.8	7,352.9	16.4	13.6	-102.37	-240.9	-148.4	725.7	699.0	26.70	27.181		
7,500.0	7,367.2	7,498.6	7,450.5	16.5	13.5	-103.05	-173.4	-150.2	738.1	711.6	26.46	27.889		
7,600.0	7,419.2	7,624.2	7,540.1	16.7	13.5	-103.84	-85.5	-151.8	749.6	723.2	26.41	28.382		
7,700.0	7,459.0	7,756.5	7,616.3	17.1	13.7	-104.61	22.4	-153.2	759.5	732.8	26.73	28.414		
7,800.0	7,485.6	7,894.9	7,673.4	17.6	14.2	-105.27	148.1	-154.2	767.2	739.6	27.64	27.758		
7,900.0	7,498.6	8,037.9	7,706.0	18.2	15.2	-105.74	287.2	-154.8	772.2	742.9	29.27	26.385		
8,000.0	7,500.0	8,167.0	7,712.0	19.0	16.3	-105.90	416.0	-154.9	774.0	742.6	31.34	24.693		
8,100.0	7,500.0	8,267.0	7,712.0	19.9	17.4	-105.88	516.0	-154.9	774.8	741.4	33.36	23.225		
8,200.0	7,500.0	8,367.0	7,712.0	20.9	18.5	-105.86	616.0	-154.9	775.6	740.1	35.58	21.800		
8,300.0	7,500.0	8,467.0	7,712.0	22.0	19.7	-105.84	716.0	-154.9	776.5	738.5	37.97	20.450		
8,400.0	7,500.0	8,567.0	7,712.0	23.2	21.0	-105.83	816.0	-154.9	777.3	736.8	40.50	19.192		
8,500.0	7,500.0	8,667.0	7,712.0	24.4	22.4	-105.81	916.0	-154.9	778.2	735.0	43.15	18.033		
8,600.0	7,500.0	8,767.0	7,712.0	25.7	23.8	-105.79	1,016.0	-154.9	779.0	733.1	45.90	16.973		
8,700.0	7,500.0	8,867.0	7,712.0	27.1	25.3	-105.77	1,116.0	-154.9	779.8	731.1	48.72	16.006		
8,800.0	7,500.0	8,967.0	7,712.0	28.5	26.8	-105.76	1,216.0	-154.9	780.7	729.1	51.61	15.125		
8,900.0	7,500.0	9,066.9	7,712.0	29.9	28.3	-105.74	1,316.0	-154.9	781.5	727.0	54.56	14.323		
9,000.0	7,500.0	9,166.9	7,712.0	31.4	29.9	-105.72	1,416.0	-154.9	782.4	724.8	57.56	13.592		
9,100.0	7,500.0	9,266.9	7,712.0	32.9	31.4	-105.71	1,515.9	-154.9	783.2	722.6	60.60	12.924		
9,200.0	7,500.0	9,366.9	7,712.0	34.4	33.0	-105.69	1,615.9	-154.9	784.0	720.4	63.67	12.313		
9,300.0	7,500.0	9,466.9	7,712.0	36.0	34.6	-105.67	1,715.9	-154.9	784.9	718.1	66.78	11.753		
9,400.0	7,500.0	9,566.9	7,712.0	37.5	36.2	-105.65	1,815.9	-154.9	785.7	715.8	69.91	11.239		
9,500.0	7,500.0	9,666.9	7,712.0	39.1	37.9	-105.64	1,915.9	-154.9	786.6	713.5	73.06	10.765		
9,600.0	7,500.0	9,766.9	7,712.0	40.7	39.5	-105.62	2,015.9	-154.9	787.4	711.2	76.24	10.328		
9,700.0	7,500.0	9,866.9	7,712.0	42.3	41.2	-105.60	2,115.9	-154.9	788.2	708.8	79.43	9.924		
9,800.0	7,500.0	9,966.9	7,712.0	43.9	42.8	-105.59	2,215.9	-154.9	789.1	706.4	82.64	9.548		
9,900.0	7,500.0	10,066.9	7,712.0	45.6	44.5	-105.59	2,315.9	-154.9	788.8	703.0	85.85	9.188		
10,000.0	7,500.0	10,166.9	7,712.0	47.2	46.2	-105.61	2,415.9	-154.9	788.0	698.9	89.07	8.847		
10,100.0	7,500.0	10,266.9	7,712.0	48.8	47.8	-105.62	2,515.9	-154.9	787.2	694.9	92.31	8.528		
10,200.0	7,500.0	10,366.9	7,712.0	50.5	49.5	-105.64	2,615.9	-154.9	786.4	690.8	95.55	8.230		
10,300.0	7,500.0	10,466.9	7,712.0	52.1	51.2	-105.66	2,715.9	-154.9	785.5	686.7	98.80	7.951		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4N-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
10,400.0	7,500.0	10,566.9	7,712.0	53.8	52.9	-105.67	2,815.9	-154.9	784.7	682.7	102.05	7.689		
10,500.0	7,500.0	10,668.0	7,712.0	55.5	54.6	-105.69	2,917.0	-154.9	783.9	678.5	105.35	7.441		
10,600.0	7,500.0	10,775.2	7,712.0	57.1	56.4	-105.72	3,024.2	-154.2	782.5	673.7	108.79	7.192		
10,700.0	7,500.0	10,882.3	7,712.0	58.8	58.3	-105.78	3,131.3	-152.6	780.1	667.9	112.22	6.952		
10,800.0	7,500.0	10,989.4	7,712.0	60.5	60.1	-105.85	3,238.3	-149.9	776.9	661.2	115.63	6.718		
10,900.0	7,500.0	11,096.4	7,712.0	62.2	61.9	-105.94	3,345.3	-146.1	772.7	653.7	119.02	6.492		
11,000.0	7,500.0	11,203.3	7,712.0	63.9	63.8	-106.06	3,452.0	-141.4	767.6	645.2	122.39	6.272		
11,100.0	7,500.0	11,310.0	7,712.0	65.6	65.6	-106.20	3,558.7	-135.7	761.6	635.9	125.74	6.057		
11,200.0	7,500.0	11,416.7	7,712.0	67.3	67.4	-106.36	3,665.1	-128.9	754.7	625.7	129.06	5.848		
11,300.0	7,500.0	11,523.1	7,712.0	69.0	69.2	-106.55	3,771.3	-121.2	747.0	614.6	132.34	5.644		
11,400.0	7,500.0	11,629.4	7,712.0	70.7	71.0	-106.76	3,877.2	-112.5	738.3	602.7	135.59	5.445		
11,500.0	7,500.0	11,735.6	7,712.0	72.4	72.9	-107.00	3,982.9	-102.8	728.7	589.9	138.80	5.250		
11,600.0	7,500.0	11,841.5	7,712.0	74.1	74.7	-107.27	4,088.3	-92.1	718.3	576.3	141.96	5.060		
11,700.0	7,500.0	11,947.1	7,712.0	75.8	76.5	-107.58	4,193.3	-80.4	706.9	561.9	145.07	4.873		
11,800.0	7,500.0	12,020.8	7,712.0	77.5	77.8	-107.81	4,266.5	-71.7	695.4	547.6	147.87	4.703		
11,845.2	7,500.0	12,020.8	7,712.0	78.3	77.8	-107.81	4,266.5	-71.7	693.2	544.8	148.40	4.671 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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 40-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.14	0.0	-19.9	19.9					
100.0	100.0	100.0	100.0	0.1	0.1	-90.14	0.0	-19.9	19.9	19.6	0.30	66.952		
200.0	200.0	200.0	200.0	0.3	0.3	-90.14	0.0	-19.9	19.9	19.2	0.65	30.762		
300.0	300.0	300.0	300.0	0.5	0.5	-90.14	0.0	-19.9	19.9	18.9	0.99	19.968		
400.0	400.0	400.0	400.0	0.7	0.7	-90.14	0.0	-19.9	19.9	18.5	1.34	14.782		
500.0	500.0	500.0	500.0	0.8	0.8	-90.14	0.0	-19.9	19.9	18.2	1.69	11.734 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	146.80	0.0	-19.9	20.6	18.5	2.04	10.082		
700.0	700.0	700.1	700.1	1.2	1.2	148.42	-0.9	-19.5	22.4	20.0	2.39	9.376		
800.0	799.9	800.3	800.2	1.4	1.4	148.23	-3.3	-18.5	25.0	22.3	2.75	9.107		
900.0	899.7	900.4	900.3	1.6	1.6	146.74	-7.3	-16.8	28.3	25.2	3.11	9.116		
1,000.0	999.4	1,000.5	1,000.1	1.8	1.7	144.64	-12.8	-14.5	32.5	29.0	3.48	9.329		
1,100.0	1,098.9	1,100.3	1,099.8	2.0	1.9	144.11	-18.7	-12.0	37.9	34.1	3.86	9.821		
1,200.0	1,198.4	1,200.1	1,199.4	2.2	2.1	144.42	-24.5	-9.6	44.1	39.9	4.25	10.388		
1,300.0	1,297.8	1,299.9	1,299.0	2.5	2.3	144.66	-30.3	-7.1	50.3	45.7	4.63	10.854		
1,400.0	1,397.3	1,399.7	1,398.6	2.7	2.5	144.85	-36.2	-4.6	56.5	51.5	5.02	11.243		
1,500.0	1,496.7	1,499.5	1,498.2	2.9	2.7	145.00	-42.0	-2.2	62.7	57.3	5.42	11.571		
1,600.0	1,596.1	1,599.3	1,597.8	3.2	2.9	145.12	-47.8	0.3	68.9	63.0	5.81	11.852		
1,700.0	1,695.6	1,699.2	1,697.4	3.4	3.1	145.22	-53.7	2.7	75.0	68.8	6.20	12.095		
1,800.0	1,795.0	1,799.0	1,797.0	3.7	3.3	145.31	-59.5	5.2	81.2	74.6	6.60	12.307		
1,900.0	1,894.5	1,898.8	1,896.6	3.9	3.5	145.39	-65.3	7.7	87.4	80.4	7.00	12.493		
2,000.0	1,993.9	1,998.6	1,996.3	4.2	3.7	145.45	-71.2	10.1	93.6	86.2	7.39	12.659		
2,100.0	2,093.4	2,098.4	2,095.9	4.4	3.9	145.51	-77.0	12.6	99.8	92.0	7.79	12.806		
2,200.0	2,192.8	2,198.2	2,195.5	4.6	4.1	145.56	-82.8	15.0	106.0	97.8	8.19	12.938		
2,300.0	2,292.3	2,298.0	2,295.1	4.9	4.3	145.60	-88.7	17.5	112.2	103.6	8.59	13.057		
2,400.0	2,391.7	2,397.8	2,394.7	5.1	4.5	145.64	-94.5	20.0	118.4	109.4	8.99	13.166		
2,500.0	2,491.2	2,497.6	2,494.3	5.4	4.8	145.68	-100.4	22.4	124.5	115.2	9.39	13.264		
2,600.0	2,590.6	2,597.4	2,593.9	5.6	5.0	145.71	-106.2	24.9	130.7	120.9	9.79	13.354		
2,700.0	2,690.1	2,697.2	2,693.5	5.9	5.2	145.74	-112.0	27.3	136.9	126.7	10.19	13.437		
2,800.0	2,789.5	2,797.0	2,793.1	6.1	5.4	145.77	-117.9	29.8	143.1	132.5	10.59	13.513		
2,900.0	2,889.0	2,896.9	2,892.7	6.4	5.6	145.79	-123.7	32.2	149.3	138.3	10.99	13.583		
3,000.0	2,988.4	2,996.7	2,992.3	6.6	5.8	145.81	-129.5	34.7	155.5	144.1	11.39	13.648		
3,100.0	3,087.9	3,096.5	3,091.9	6.9	6.0	145.84	-135.4	37.2	161.7	149.9	11.79	13.709		
3,200.0	3,187.3	3,196.3	3,191.5	7.2	6.2	145.85	-141.2	39.6	167.9	155.7	12.19	13.765		
3,300.0	3,286.8	3,296.1	3,291.1	7.4	6.4	145.87	-147.0	42.1	174.0	161.5	12.60	13.818		
3,400.0	3,386.2	3,395.9	3,390.8	7.7	6.6	145.89	-152.9	44.5	180.2	167.2	13.00	13.867		
3,500.0	3,485.7	3,495.7	3,490.4	7.9	6.8	145.91	-158.7	47.0	186.4	173.0	13.40	13.913		
3,600.0	3,585.1	3,595.5	3,590.0	8.2	7.0	145.92	-164.5	49.5	192.6	178.8	13.80	13.957		
3,700.0	3,684.6	3,695.3	3,689.6	8.4	7.2	145.93	-170.4	51.9	198.8	184.6	14.20	13.998		
3,800.0	3,784.0	3,795.1	3,789.2	8.7	7.4	145.95	-176.2	54.4	205.0	190.4	14.60	14.036		
3,900.0	3,883.5	3,894.9	3,888.8	8.9	7.6	145.96	-182.0	56.8	211.2	196.2	15.01	14.073		
4,000.0	3,982.9	3,994.7	3,988.4	9.2	7.8	145.97	-187.9	59.3	217.4	202.0	15.41	14.107		
4,100.0	4,082.4	4,094.6	4,088.0	9.4	8.0	145.98	-193.7	61.8	223.6	207.7	15.81	14.140		
4,200.0	4,181.8	4,194.4	4,187.6	9.7	8.2	145.99	-199.5	64.2	229.7	213.5	16.21	14.171		
4,300.0	4,281.3	4,294.2	4,287.2	9.9	8.4	146.00	-205.4	66.7	235.9	219.3	16.61	14.200		
4,400.0	4,380.7	4,394.0	4,386.8	10.2	8.7	146.01	-211.2	69.1	242.1	225.1	17.02	14.228		
4,500.0	4,480.2	4,493.8	4,486.4	10.4	8.9	146.02	-217.0	71.6	248.3	230.9	17.42	14.255		
4,600.0	4,579.6	4,593.6	4,586.0	10.7	9.1	146.03	-222.9	74.0	254.5	236.7	17.82	14.280		
4,700.0	4,679.1	4,693.4	4,685.6	10.9	9.3	146.04	-228.7	76.5	260.7	242.5	18.22	14.304		
4,800.0	4,778.5	4,793.2	4,785.3	11.2	9.5	146.04	-234.5	79.0	266.9	248.2	18.63	14.328		
4,900.0	4,878.0	4,893.0	4,884.9	11.4	9.7	146.05	-240.4	81.4	273.1	254.0	19.03	14.350		
5,000.0	4,977.4	4,992.8	4,984.5	11.7	9.9	146.06	-246.2	83.9	279.3	259.8	19.43	14.371		
5,100.0	5,076.9	5,092.6	5,084.1	11.9	10.1	146.06	-252.1	86.3	285.4	265.6	19.83	14.391		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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 40-32H-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	
5,200.0	5,176.3	5,192.4	5,183.7	12.2	10.3	146.07	-257.9	88.8	291.6	271.4	20.24	14.411	
5,300.0	5,275.8	5,292.3	5,283.3	12.4	10.5	146.08	-263.7	91.3	297.8	277.2	20.64	14.430	
5,400.0	5,375.2	5,392.1	5,382.9	12.7	10.7	146.08	-269.6	93.7	304.0	283.0	21.04	14.448	
5,500.0	5,474.7	5,491.9	5,482.5	12.9	10.9	146.09	-275.4	96.2	310.2	288.7	21.44	14.465	
5,600.0	5,574.1	5,591.7	5,582.1	13.2	11.1	146.09	-281.2	98.6	316.4	294.5	21.85	14.481	
5,700.0	5,673.6	5,691.5	5,681.7	13.5	11.3	146.10	-287.1	101.1	322.6	300.3	22.25	14.498	
5,800.0	5,773.0	5,791.3	5,781.3	13.7	11.5	146.10	-292.9	103.6	328.8	306.1	22.65	14.513	
5,900.0	5,872.5	5,891.1	5,880.9	14.0	11.7	146.11	-298.7	106.0	334.9	311.9	23.06	14.528	
6,000.0	5,971.9	5,990.9	5,980.5	14.2	11.9	146.11	-304.6	108.5	341.1	317.7	23.46	14.542	
6,100.0	6,071.4	6,090.7	6,080.2	14.5	12.2	146.12	-310.4	110.9	347.3	323.5	23.86	14.556	
6,200.0	6,170.8	6,190.5	6,179.8	14.7	12.4	146.12	-316.2	113.4	353.5	329.2	24.26	14.569	
6,300.0	6,270.3	6,290.3	6,279.4	15.0	12.6	146.13	-322.1	115.9	359.7	335.0	24.67	14.582	
6,400.0	6,369.7	6,390.1	6,379.0	15.2	12.8	146.13	-327.9	118.3	365.9	340.8	25.07	14.595	
6,500.0	6,469.2	6,490.0	6,478.6	15.5	13.0	146.13	-333.7	120.8	372.1	346.6	25.47	14.607	
6,600.0	6,568.6	6,589.8	6,578.2	15.7	13.2	146.14	-339.6	123.2	378.3	352.4	25.88	14.619	
6,700.0	6,668.1	6,689.5	6,677.8	16.0	13.4	146.15	-345.4	125.7	384.5	358.2	26.28	14.631	
6,800.0	6,767.5	6,788.0	6,776.1	16.2	13.5	164.20	-343.5	128.1	390.8	364.3	26.48	14.759	
6,900.0	6,867.0	6,884.8	6,871.6	16.4	13.5	-124.56	-328.5	130.5	397.6	371.1	26.44	15.038	
7,000.0	6,964.8	6,980.2	6,963.0	16.5	13.5	-104.08	-301.2	132.7	404.6	378.4	26.26	15.407	
7,100.0	7,059.3	7,074.4	7,048.8	16.5	13.4	-95.87	-262.6	134.8	411.7	385.7	26.02	15.826	
7,200.0	7,148.4	7,167.5	7,127.9	16.5	13.3	-91.14	-213.7	136.8	418.7	393.0	25.77	16.248	
7,300.0	7,230.4	7,259.7	7,199.4	16.4	13.2	-87.92	-155.6	138.6	425.4	399.8	25.61	16.614	
7,400.0	7,303.8	7,350.0	7,261.6	16.4	13.2	-85.58	-90.3	140.1	431.6	406.0	25.59	16.867	
7,500.0	7,367.2	7,441.8	7,315.9	16.5	13.3	-83.82	-16.3	141.4	437.1	411.3	25.80	16.941	
7,600.0	7,419.2	7,532.1	7,359.7	16.7	13.5	-82.54	62.6	142.5	441.8	415.5	26.28	16.809	
7,700.0	7,459.0	7,622.0	7,393.1	17.1	13.9	-81.64	146.0	143.3	445.5	418.5	27.06	16.463	
7,800.0	7,485.6	7,711.8	7,415.7	17.6	14.4	-81.11	232.7	143.9	448.3	420.1	28.15	15.928	
7,900.0	7,498.6	7,800.0	7,427.3	18.2	15.1	-80.91	320.2	144.2	450.0	420.5	29.48	15.262	
8,000.0	7,500.0	7,895.9	7,429.0	19.0	16.0	-80.94	416.0	144.2	450.8	419.6	31.24	14.429	
8,100.0	7,500.0	7,995.9	7,429.0	19.9	17.1	-80.96	516.0	144.2	451.7	418.3	33.35	13.545	
8,200.0	7,500.0	8,095.9	7,429.0	20.9	18.2	-80.97	616.0	144.2	452.5	416.9	35.66	12.690	
8,300.0	7,500.0	8,195.8	7,429.0	22.0	19.5	-80.99	716.0	144.2	453.4	415.3	38.15	11.885	
8,400.0	7,500.0	8,295.8	7,429.0	23.2	20.8	-81.01	816.0	144.2	454.3	413.5	40.78	11.139	
8,500.0	7,500.0	8,395.8	7,429.0	24.4	22.2	-81.02	916.0	144.2	455.1	411.6	43.53	10.455	
8,600.0	7,500.0	8,495.8	7,429.0	25.7	23.6	-81.04	1,016.0	144.2	456.0	409.6	46.38	9.832	
8,700.0	7,500.0	8,595.8	7,429.0	27.1	25.1	-81.06	1,116.0	144.2	456.9	407.5	49.31	9.266	
8,800.0	7,500.0	8,695.8	7,429.0	28.5	26.6	-81.08	1,216.0	144.2	457.7	405.4	52.30	8.752	
8,900.0	7,500.0	8,795.8	7,429.0	29.9	28.1	-81.09	1,316.0	144.2	458.6	403.2	55.35	8.285	
9,000.0	7,500.0	8,895.8	7,429.0	31.4	29.7	-81.11	1,416.0	144.2	459.4	401.0	58.44	7.861	
9,100.0	7,500.0	8,995.8	7,429.0	32.9	31.2	-81.13	1,515.9	144.2	460.3	398.7	61.58	7.475	
9,200.0	7,500.0	9,095.8	7,429.0	34.4	32.8	-81.14	1,615.9	144.2	461.2	396.4	64.75	7.122	
9,300.0	7,500.0	9,195.8	7,429.0	36.0	34.4	-81.16	1,715.9	144.2	462.0	394.1	67.95	6.800	
9,400.0	7,500.0	9,295.8	7,429.0	37.5	36.1	-81.18	1,815.9	144.2	462.9	391.7	71.17	6.504	
9,500.0	7,500.0	9,395.8	7,429.0	39.1	37.7	-81.19	1,915.9	144.2	463.8	389.3	74.42	6.232	
9,600.0	7,500.0	9,495.8	7,429.0	40.7	39.4	-81.21	2,015.9	144.2	464.6	386.9	77.69	5.981	
9,700.0	7,500.0	9,595.8	7,429.0	42.3	41.0	-81.23	2,115.9	144.2	465.5	384.5	80.97	5.749	
9,800.0	7,500.0	9,695.8	7,429.0	43.9	42.7	-81.24	2,215.9	144.2	466.3	382.0	84.27	5.534	
9,900.0	7,500.0	9,795.8	7,429.0	45.6	44.3	-81.24	2,315.9	144.2	466.1	378.5	87.58	5.322	
10,000.0	7,500.0	9,895.8	7,429.0	47.2	46.0	-81.22	2,415.9	144.2	465.2	374.3	90.90	5.118	
10,100.0	7,500.0	9,995.8	7,429.0	48.8	47.7	-81.21	2,515.9	144.2	464.4	370.2	94.22	4.928	
10,200.0	7,500.0	10,095.8	7,429.0	50.5	49.4	-81.19	2,615.9	144.2	463.5	366.0	97.56	4.751	
10,300.0	7,500.0	10,195.8	7,429.0	52.1	51.1	-81.17	2,715.9	144.2	462.7	361.8	100.91	4.585	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		
10,400.0	7,500.0	10,295.8	7,429.0	53.8	52.8	-81.16	2,815.9	144.2	461.8	357.6	104.26	4.430		
10,500.0	7,500.0	10,395.8	7,429.0	55.5	54.5	-81.14	2,915.9	144.2	461.0	353.4	107.62	4.284		
10,600.0	7,500.0	10,495.8	7,429.0	57.1	56.2	-81.12	3,015.9	144.2	460.2	349.2	110.98	4.146		
10,700.0	7,500.0	10,595.8	7,429.0	58.8	57.9	-81.11	3,115.9	144.2	459.3	345.0	114.35	4.017		
10,800.0	7,500.0	10,695.8	7,429.0	60.5	59.6	-81.09	3,215.9	144.2	458.5	340.7	117.73	3.894		
10,900.0	7,500.0	10,795.8	7,429.0	62.2	61.3	-81.07	3,315.9	144.2	457.6	336.5	121.11	3.779		
11,000.0	7,500.0	10,895.7	7,429.0	63.9	63.0	-81.06	3,415.9	144.2	456.8	332.3	124.49	3.669		
11,100.0	7,500.0	10,995.7	7,429.0	65.6	64.7	-81.04	3,515.9	144.2	455.9	328.1	127.88	3.565		
11,200.0	7,500.0	11,095.7	7,429.0	67.3	66.5	-81.02	3,615.9	144.2	455.1	323.8	131.27	3.467		
11,300.0	7,500.0	11,195.7	7,429.0	69.0	68.2	-81.01	3,715.9	144.2	454.3	319.6	134.67	3.373		
11,400.0	7,500.0	11,295.7	7,429.0	70.7	69.9	-80.99	3,815.9	144.2	453.4	315.4	138.06	3.284		
11,500.0	7,500.0	11,395.7	7,429.0	72.4	71.6	-80.97	3,915.9	144.2	452.6	311.1	141.46	3.199		
11,600.0	7,500.0	11,495.7	7,429.0	74.1	73.3	-80.96	4,015.9	144.2	451.7	306.9	144.87	3.118		
11,700.0	7,500.0	11,595.7	7,429.0	75.8	75.1	-80.94	4,115.9	144.2	450.9	302.6	148.27	3.041		
11,737.9	7,500.0	11,629.8	7,429.0	76.4	75.7	-80.93	4,150.0	144.2	450.6	301.2	149.38	3.016 SF		
11,800.0	7,500.0	11,650.0	7,429.0	77.5	76.0	-80.96	4,170.1	142.9	453.6	304.8	148.88	3.047		
11,845.2	7,500.0	11,660.0	7,429.0	78.3	76.2	-80.99	4,179.9	141.3	459.8	312.4	147.35	3.120		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-9.8	9.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.90	0.0	-9.8	9.8	9.5	0.30	33.004		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.0	-9.8	9.8	9.1	0.65	15.164		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.0	-9.8	9.8	8.8	0.99	9.843		
400.0	400.0	400.0	400.0	0.7	0.7	-89.90	0.0	-9.8	9.8	8.4	1.34	7.287		
500.0	500.0	500.0	500.0	0.8	0.8	-89.90	0.0	-9.8	9.8	8.1	1.69	5.784 CC, ES		
600.0	600.0	600.1	600.1	1.0	1.0	147.47	-0.1	-9.6	10.4	8.3	2.04	5.079		
700.0	700.0	700.2	700.2	1.2	1.2	148.16	-1.5	-8.5	11.4	9.0	2.39	4.757		
800.0	799.9	800.3	800.2	1.4	1.4	147.20	-4.1	-6.2	12.7	9.9	2.75	4.609		
900.0	899.7	900.5	900.2	1.6	1.6	145.09	-8.0	-2.7	14.2	11.1	3.11	4.575		
1,000.0	999.4	1,000.6	1,000.1	1.8	1.8	142.29	-13.3	1.9	16.1	12.6	3.49	4.619		
1,100.0	1,098.9	1,100.6	1,099.8	2.0	2.0	141.40	-19.1	7.1	18.9	15.0	3.87	4.869		
1,200.0	1,198.4	1,200.5	1,199.4	2.2	2.2	142.22	-25.0	12.3	22.3	18.1	4.26	5.239		
1,300.0	1,297.8	1,300.4	1,299.1	2.5	2.4	142.82	-30.8	17.5	25.8	21.1	4.65	5.545		
1,400.0	1,397.3	1,400.4	1,398.7	2.7	2.6	143.28	-36.7	22.6	29.2	24.2	5.04	5.802		
1,500.0	1,496.7	1,500.3	1,498.3	2.9	2.8	143.64	-42.6	27.8	32.7	27.3	5.43	6.020		
1,600.0	1,596.1	1,600.3	1,598.0	3.2	3.0	143.93	-48.4	33.0	36.2	30.4	5.83	6.208		
1,700.0	1,695.6	1,700.2	1,697.6	3.4	3.2	144.17	-54.3	38.2	39.7	33.4	6.23	6.370		
1,800.0	1,795.0	1,800.1	1,797.2	3.7	3.4	144.37	-60.2	43.3	43.1	36.5	6.62	6.513		
1,900.0	1,894.5	1,900.1	1,896.9	3.9	3.7	144.54	-66.0	48.5	46.6	39.6	7.02	6.638		
2,000.0	1,993.9	2,000.0	1,996.5	4.2	3.9	144.69	-71.9	53.7	50.1	42.7	7.42	6.750		
2,100.0	2,093.4	2,100.0	2,096.1	4.4	4.1	144.82	-77.8	58.9	53.5	45.7	7.82	6.850		
2,200.0	2,192.8	2,199.9	2,195.8	4.6	4.3	144.93	-83.6	64.0	57.0	48.8	8.22	6.940		
2,300.0	2,292.3	2,299.8	2,295.4	4.9	4.5	145.03	-89.5	69.2	60.5	51.9	8.62	7.021		
2,400.0	2,391.7	2,399.8	2,395.0	5.1	4.7	145.12	-95.3	74.4	64.0	54.9	9.02	7.095		
2,500.0	2,491.2	2,499.7	2,494.7	5.4	5.0	145.20	-101.2	79.6	67.4	58.0	9.42	7.162		
2,600.0	2,590.6	2,599.7	2,594.3	5.6	5.2	145.27	-107.1	84.7	70.9	61.1	9.82	7.224		
2,700.0	2,690.1	2,699.6	2,693.9	5.9	5.4	145.34	-112.9	89.9	74.4	64.2	10.22	7.281		
2,800.0	2,789.5	2,799.5	2,793.6	6.1	5.6	145.39	-118.8	95.1	77.9	67.2	10.62	7.333		
2,900.0	2,889.0	2,899.5	2,893.2	6.4	5.8	145.45	-124.7	100.3	81.3	70.3	11.02	7.382		
3,000.0	2,988.4	2,999.4	2,992.8	6.6	6.1	145.50	-130.5	105.4	84.8	73.4	11.42	7.427		
3,100.0	3,087.9	3,099.4	3,092.5	6.9	6.3	145.55	-136.4	110.6	88.3	76.5	11.82	7.468		
3,200.0	3,187.3	3,199.3	3,192.1	7.2	6.5	145.59	-142.2	115.8	91.8	79.5	12.22	7.507		
3,300.0	3,286.8	3,299.2	3,291.7	7.4	6.7	145.63	-148.1	121.0	95.2	82.6	12.62	7.544		
3,400.0	3,386.2	3,399.2	3,391.4	7.7	6.9	145.66	-154.0	126.1	98.7	85.7	13.02	7.578		
3,500.0	3,485.7	3,499.1	3,491.0	7.9	7.2	145.70	-159.8	131.3	102.2	88.7	13.43	7.610		
3,600.0	3,585.1	3,599.1	3,590.6	8.2	7.4	145.73	-165.7	136.5	105.6	91.8	13.83	7.640		
3,700.0	3,684.6	3,699.0	3,690.3	8.4	7.6	145.76	-171.6	141.7	109.1	94.9	14.23	7.669		
3,800.0	3,784.0	3,798.9	3,789.9	8.7	7.8	145.79	-177.4	146.9	112.6	98.0	14.63	7.695		
3,900.0	3,883.5	3,898.9	3,889.5	8.9	8.0	145.81	-183.3	152.0	116.1	101.0	15.03	7.721		
4,000.0	3,982.9	3,998.8	3,989.2	9.2	8.3	145.84	-189.1	157.2	119.5	104.1	15.44	7.745		
4,100.0	4,082.4	4,098.8	4,088.8	9.4	8.5	145.86	-195.0	162.4	123.0	107.2	15.84	7.767		
4,200.0	4,181.8	4,198.7	4,188.4	9.7	8.7	145.88	-200.9	167.6	126.5	110.3	16.24	7.789		
4,300.0	4,281.3	4,298.6	4,288.1	9.9	8.9	145.91	-206.7	172.7	130.0	113.3	16.64	7.810		
4,400.0	4,380.7	4,398.6	4,387.7	10.2	9.2	145.93	-212.6	177.9	133.4	116.4	17.04	7.829		
4,500.0	4,480.2	4,498.5	4,487.3	10.4	9.4	145.94	-218.5	183.1	136.9	119.5	17.45	7.848		
4,600.0	4,579.6	4,598.5	4,587.0	10.7	9.6	145.96	-224.3	188.3	140.4	122.5	17.85	7.866		
4,700.0	4,679.1	4,698.4	4,686.6	10.9	9.8	145.98	-230.2	193.4	143.9	125.6	18.25	7.883		
4,800.0	4,778.5	4,798.3	4,786.2	11.2	10.0	146.00	-236.0	198.6	147.3	128.7	18.65	7.899		
4,900.0	4,878.0	4,898.3	4,885.9	11.4	10.3	146.01	-241.9	203.8	150.8	131.8	19.06	7.914		
5,000.0	4,977.4	4,998.2	4,985.5	11.7	10.5	146.03	-247.8	209.0	154.3	134.8	19.46	7.929		
5,100.0	5,076.9	5,098.2	5,085.1	11.9	10.7	146.04	-253.6	214.1	157.8	137.9	19.86	7.943		

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4P-32H-O268 - OH - PLAN #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,176.3	5,198.1	5,184.8	12.2	10.9	146.05	-259.5	219.3	161.2	141.0	20.26	7.957	
5,300.0	5,275.8	5,298.0	5,284.4	12.4	11.1	146.07	-265.4	224.5	164.7	144.0	20.67	7.970	
5,400.0	5,375.2	5,398.0	5,384.0	12.7	11.4	146.08	-271.2	229.7	168.2	147.1	21.07	7.983	
5,500.0	5,474.7	5,497.9	5,483.7	12.9	11.6	146.09	-277.1	234.8	171.7	150.2	21.47	7.995	
5,600.0	5,574.1	5,597.9	5,583.3	13.2	11.8	146.10	-283.0	240.0	175.1	153.3	21.87	8.007	
5,700.0	5,673.6	5,697.8	5,682.9	13.5	12.0	146.11	-288.8	245.2	178.6	156.3	22.28	8.018	
5,800.0	5,773.0	5,797.7	5,782.6	13.7	12.2	146.12	-294.7	250.4	182.1	159.4	22.68	8.029	
5,900.0	5,872.5	5,897.7	5,882.2	14.0	12.5	146.13	-300.5	255.5	185.6	162.5	23.08	8.039	
6,000.0	5,971.9	5,997.6	5,981.8	14.2	12.7	146.14	-306.4	260.7	189.0	165.5	23.48	8.050	
6,100.0	6,071.4	6,097.6	6,081.5	14.5	12.9	146.15	-312.3	265.9	192.5	168.6	23.89	8.059	
6,200.0	6,170.8	6,197.5	6,181.1	14.7	13.1	146.16	-318.1	271.1	196.0	171.7	24.29	8.069	
6,300.0	6,270.3	6,297.4	6,280.7	15.0	13.4	146.17	-324.0	276.2	199.5	174.8	24.69	8.078	
6,400.0	6,369.7	6,397.4	6,380.4	15.2	13.6	146.18	-329.9	281.4	202.9	177.8	25.09	8.087	
6,500.0	6,469.2	6,497.3	6,480.0	15.5	13.8	146.19	-335.7	286.6	206.4	180.9	25.50	8.095	
6,600.0	6,568.6	6,597.2	6,579.6	15.7	14.0	146.20	-341.6	291.8	209.9	184.0	25.90	8.104	
6,700.0	6,668.1	6,697.2	6,679.3	16.0	14.2	146.20	-347.4	297.0	213.4	187.0	26.30	8.112	
6,800.0	6,767.5	6,796.8	6,778.6	16.2	14.4	163.28	-352.4	302.1	216.9	190.2	26.66	8.133	
6,900.0	6,867.0	6,895.6	6,877.1	16.4	14.5	-126.80	-346.3	307.0	220.7	193.9	26.78	8.239	
7,000.0	6,964.8	6,994.2	6,973.5	16.5	14.6	-107.55	-326.8	311.6	224.8	198.0	26.73	8.410	
7,100.0	7,059.3	7,092.6	7,066.2	16.5	14.5	-100.48	-294.4	315.7	229.1	202.6	26.54	8.632	
7,200.0	7,148.4	7,190.7	7,153.4	16.5	14.4	-96.76	-249.6	319.4	233.6	207.3	26.30	8.881	
7,300.0	7,230.4	7,288.8	7,233.6	16.4	14.3	-94.44	-193.4	322.5	238.1	212.0	26.09	9.127	
7,400.0	7,303.8	7,386.7	7,305.3	16.4	14.3	-92.86	-127.0	325.0	242.6	216.6	25.99	9.333	
7,500.0	7,367.2	7,484.5	7,367.2	16.5	14.3	-91.74	-51.4	326.8	246.9	220.8	26.10	9.460	
7,600.0	7,419.2	7,582.3	7,418.3	16.7	14.5	-90.95	31.9	328.0	251.0	224.5	26.50	9.474	
7,700.0	7,459.0	7,680.1	7,457.6	17.1	14.8	-90.41	121.4	328.4	254.9	227.6	27.24	9.357	
7,800.0	7,485.6	7,778.0	7,484.4	17.6	15.4	-90.10	215.5	328.1	258.3	230.0	28.34	9.115	
7,900.0	7,498.6	7,876.0	7,498.1	18.2	16.0	-89.98	312.5	327.1	261.3	231.5	29.79	8.772	
8,000.0	7,500.0	7,975.0	7,500.0	19.0	16.9	-90.00	411.4	325.5	264.0	232.4	31.58	8.358	
8,100.0	7,500.0	8,074.9	7,500.0	19.9	17.9	-90.00	511.3	323.8	266.6	232.9	33.67	7.917	
8,200.0	7,500.0	8,174.9	7,500.0	20.9	19.0	-90.00	611.3	322.0	269.2	233.2	35.98	7.483	
8,300.0	7,500.0	8,274.9	7,500.0	22.0	20.1	-90.00	711.2	320.3	271.8	233.4	38.46	7.067	
8,400.0	7,500.0	8,374.8	7,500.0	23.2	21.4	-90.00	811.2	318.5	274.4	233.3	41.10	6.677	
8,500.0	7,500.0	8,474.8	7,500.0	24.4	22.7	-90.00	911.1	316.8	277.1	233.2	43.86	6.317	
8,600.0	7,500.0	8,574.8	7,500.0	25.7	24.1	-90.00	1,011.1	315.0	279.7	233.0	46.72	5.986	
8,700.0	7,500.0	8,674.7	7,500.0	27.1	25.5	-90.00	1,111.0	313.3	282.3	232.6	49.66	5.684	
8,800.0	7,500.0	8,774.7	7,500.0	28.5	27.0	-90.00	1,211.0	311.5	284.9	232.2	52.68	5.409	
8,900.0	7,500.0	8,874.7	7,500.0	29.9	28.5	-90.00	1,310.9	309.8	287.5	231.8	55.75	5.158	
9,000.0	7,500.0	8,974.6	7,500.0	31.4	30.0	-90.00	1,410.9	308.1	290.1	231.3	58.87	4.929	
9,100.0	7,500.0	9,074.6	7,500.0	32.9	31.6	-90.00	1,510.8	306.3	292.8	230.7	62.03	4.720	
9,200.0	7,500.0	9,174.6	7,500.0	34.4	33.2	-90.00	1,610.8	304.6	295.4	230.2	65.22	4.529	
9,300.0	7,500.0	9,274.5	7,500.0	36.0	34.7	-90.00	1,710.7	302.8	298.0	229.6	68.45	4.354	
9,400.0	7,500.0	9,374.5	7,500.0	37.5	36.3	-90.00	1,810.7	301.1	300.6	228.9	71.70	4.193	
9,500.0	7,500.0	9,474.5	7,500.0	39.1	38.0	-90.00	1,910.6	299.3	303.2	228.3	74.98	4.044	
9,600.0	7,500.0	9,574.4	7,500.0	40.7	39.6	-90.00	2,010.6	297.6	305.9	227.6	78.27	3.908	
9,700.0	7,500.0	9,674.4	7,500.0	42.3	41.2	-90.00	2,110.5	295.8	308.5	226.9	81.59	3.781	
9,800.0	7,500.0	9,774.4	7,500.0	43.9	42.9	-90.00	2,210.5	294.1	311.1	226.2	84.92	3.663	
9,900.0	7,500.0	9,874.3	7,500.0	45.6	44.5	-90.00	2,310.5	292.4	312.6	224.3	88.26	3.541	
10,000.0	7,500.0	9,974.3	7,500.0	47.2	46.2	-90.00	2,410.4	290.6	313.5	221.8	91.62	3.421	
10,100.0	7,500.0	10,074.3	7,500.0	48.8	47.9	-90.00	2,510.4	288.9	314.3	219.4	94.98	3.309	
10,200.0	7,500.0	10,174.3	7,500.0	50.5	49.5	-90.00	2,610.4	287.1	315.2	216.9	98.36	3.205	
10,300.0	7,500.0	10,274.3	7,500.0	52.1	51.2	-90.00	2,710.4	285.4	316.1	214.4	101.75	3.107	

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
10,400.0	7,500.0	10,374.3	7,500.0	53.8	52.9	-90.00	2,810.4	283.6	317.0	211.9	105.14	3.015		
10,500.0	7,500.0	10,474.3	7,500.0	55.5	54.6	-90.00	2,910.3	281.9	317.9	209.4	108.54	2.929		
10,600.0	7,500.0	10,574.3	7,500.0	57.1	56.3	-90.00	3,010.3	280.1	318.8	206.9	111.95	2.848		
10,700.0	7,500.0	10,674.3	7,500.0	58.8	58.0	-90.00	3,110.3	278.4	319.7	204.3	115.36	2.771		
10,800.0	7,500.0	10,774.3	7,500.0	60.5	59.7	-90.00	3,210.3	276.6	320.6	201.8	118.78	2.699		
10,900.0	7,500.0	10,874.3	7,500.0	62.2	61.4	-90.00	3,310.3	274.9	321.5	199.3	122.21	2.631		
11,000.0	7,500.0	10,974.3	7,500.0	63.9	63.1	-90.00	3,410.3	273.2	322.4	196.7	125.64	2.566		
11,100.0	7,500.0	11,074.3	7,500.0	65.6	64.8	-90.00	3,510.2	271.4	323.3	194.2	129.07	2.505		
11,200.0	7,500.0	11,174.3	7,500.0	67.3	66.5	-90.00	3,610.2	269.7	324.2	191.6	132.51	2.446		
11,300.0	7,500.0	11,274.3	7,500.0	69.0	68.2	-90.00	3,710.2	267.9	325.0	189.1	135.95	2.391		
11,400.0	7,500.0	11,374.3	7,500.0	70.7	70.0	-90.00	3,810.2	266.2	325.9	186.5	139.39	2.338		
11,500.0	7,500.0	11,474.3	7,500.0	72.4	71.7	-90.00	3,910.2	264.4	326.8	184.0	142.84	2.288		
11,600.0	7,500.0	11,574.3	7,500.0	74.1	73.4	-90.00	4,010.1	262.7	327.7	181.4	146.29	2.240		
11,700.0	7,500.0	11,674.3	7,500.0	75.8	75.1	-90.00	4,110.1	260.9	328.6	178.9	149.74	2.195		
11,800.0	7,500.0	11,774.3	7,500.0	77.5	76.8	-90.00	4,210.1	259.2	329.5	176.3	153.20	2.151		
11,845.2	7,500.0	11,819.5	7,500.0	78.3	77.6	-90.00	4,255.3	258.4	329.9	175.1	154.76	2.132 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.14	0.0	10.1	10.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.14	0.0	10.1	10.1	9.8	0.30	33.947		
200.0	200.0	200.0	200.0	0.3	0.3	90.14	0.0	10.1	10.1	9.4	0.65	15.597		
300.0	300.0	300.0	300.0	0.5	0.5	90.14	0.0	10.1	10.1	9.1	0.99	10.125		
400.0	400.0	400.0	400.0	0.7	0.7	90.14	0.0	10.1	10.1	8.7	1.34	7.495		
500.0	500.0	500.0	500.0	0.8	0.8	90.14	0.0	10.1	10.1	8.4	1.69	5.950 CC		
600.0	600.0	599.8	599.8	1.0	1.0	-34.65	-0.5	10.8	10.1	8.1	2.04	4.951		
700.0	700.0	699.7	699.7	1.2	1.2	-35.70	-1.7	13.1	10.2	7.8	2.39	4.274		
800.0	799.9	799.5	799.4	1.4	1.4	-37.39	-3.9	16.9	10.4	7.7	2.75	3.796		
900.0	899.7	899.4	899.1	1.6	1.6	-39.64	-6.9	22.2	10.7	7.6	3.11	3.448		
1,000.0	999.4	999.2	998.6	1.8	1.8	-42.36	-10.8	29.0	11.1	7.6	3.48	3.191		
1,100.0	1,098.9	1,099.1	1,098.0	2.0	2.0	-45.42	-15.5	37.3	11.6	7.8	3.88	2.998		
1,200.0	1,198.4	1,198.9	1,197.2	2.2	2.2	-45.89	-21.1	47.1	12.9	8.6	4.29	3.000		
1,300.0	1,297.8	1,298.9	1,296.4	2.5	2.5	-44.25	-27.1	57.6	14.7	10.0	4.69	3.132		
1,400.0	1,397.3	1,398.9	1,395.7	2.7	2.7	-42.97	-33.0	68.1	16.5	11.4	5.09	3.245		
1,500.0	1,496.7	1,498.9	1,494.9	2.9	3.0	-41.95	-39.0	78.5	18.3	12.8	5.49	3.342		
1,600.0	1,596.1	1,598.8	1,594.2	3.2	3.2	-41.12	-45.0	89.0	20.2	14.3	5.89	3.426		
1,700.0	1,695.6	1,698.8	1,693.4	3.4	3.5	-40.42	-50.9	99.5	22.0	15.7	6.29	3.500		
1,800.0	1,795.0	1,798.8	1,792.7	3.7	3.8	-39.84	-56.9	110.0	23.9	17.2	6.69	3.565		
1,900.0	1,894.5	1,898.8	1,891.9	3.9	4.0	-39.33	-62.9	120.5	25.7	18.6	7.09	3.624		
2,000.0	1,993.9	1,998.8	1,991.2	4.2	4.3	-38.90	-68.9	131.0	27.5	20.1	7.49	3.676		
2,100.0	2,093.4	2,098.8	2,090.4	4.4	4.6	-38.52	-74.8	141.5	29.4	21.5	7.90	3.723		
2,200.0	2,192.8	2,198.7	2,189.7	4.6	4.8	-38.18	-80.8	152.0	31.2	23.0	8.30	3.766		
2,300.0	2,292.3	2,298.7	2,288.9	4.9	5.1	-37.88	-86.8	162.5	33.1	24.4	8.70	3.804		
2,400.0	2,391.7	2,398.7	2,388.2	5.1	5.4	-37.61	-92.8	173.0	35.0	25.8	9.10	3.840		
2,500.0	2,491.2	2,498.7	2,487.4	5.4	5.6	-37.37	-98.7	183.5	36.8	27.3	9.50	3.872		
2,600.0	2,590.6	2,598.7	2,586.7	5.6	5.9	-37.16	-104.7	194.0	38.7	28.8	9.91	3.902		
2,700.0	2,690.1	2,698.7	2,686.0	5.9	6.2	-36.96	-110.7	204.5	40.5	30.2	10.31	3.930		
2,800.0	2,789.5	2,798.6	2,785.2	6.1	6.4	-36.78	-116.6	214.9	42.4	31.7	10.71	3.955		
2,900.0	2,889.0	2,898.6	2,884.5	6.4	6.7	-36.62	-122.6	225.4	44.2	33.1	11.11	3.979		
3,000.0	2,988.4	2,998.6	2,983.7	6.6	7.0	-36.46	-128.6	235.9	46.1	34.6	11.52	4.001		
3,100.0	3,087.9	3,098.6	3,083.0	6.9	7.3	-36.32	-134.6	246.4	47.9	36.0	11.92	4.022		
3,200.0	3,187.3	3,198.6	3,182.2	7.2	7.5	-36.19	-140.5	256.9	49.8	37.5	12.32	4.041		
3,300.0	3,286.8	3,298.6	3,281.5	7.4	7.8	-36.07	-146.5	267.4	51.6	38.9	12.72	4.059		
3,400.0	3,386.2	3,398.5	3,380.7	7.7	8.1	-35.96	-152.5	277.9	53.5	40.4	13.12	4.076		
3,500.0	3,485.7	3,498.5	3,480.0	7.9	8.3	-35.86	-158.5	288.4	55.4	41.8	13.53	4.092		
3,600.0	3,585.1	3,598.5	3,579.2	8.2	8.6	-35.76	-164.4	298.9	57.2	43.3	13.93	4.107		
3,700.0	3,684.6	3,698.5	3,678.5	8.4	8.9	-35.67	-170.4	309.4	59.1	44.7	14.33	4.121		
3,800.0	3,784.0	3,798.5	3,777.7	8.7	9.2	-35.58	-176.4	319.9	60.9	46.2	14.73	4.135		
3,900.0	3,883.5	3,898.4	3,877.0	8.9	9.4	-35.50	-182.3	330.4	62.8	47.6	15.14	4.148		
4,000.0	3,982.9	3,998.4	3,976.2	9.2	9.7	-35.43	-188.3	340.9	64.6	49.1	15.54	4.160		
4,100.0	4,082.4	4,098.4	4,075.5	9.4	10.0	-35.36	-194.3	351.3	66.5	50.5	15.94	4.171		
4,200.0	4,181.8	4,198.4	4,174.7	9.7	10.3	-35.29	-200.3	361.8	68.3	52.0	16.34	4.182		
4,300.0	4,281.3	4,298.4	4,274.0	9.9	10.5	-35.22	-206.2	372.3	70.2	53.5	16.74	4.193		
4,400.0	4,380.7	4,398.4	4,373.2	10.2	10.8	-35.16	-212.2	382.8	72.1	54.9	17.15	4.203		
4,500.0	4,480.2	4,498.3	4,472.5	10.4	11.1	-35.10	-218.2	393.3	73.9	56.4	17.55	4.212		
4,600.0	4,579.6	4,598.3	4,571.7	10.7	11.4	-35.05	-224.2	403.8	75.8	57.8	17.95	4.221		
4,700.0	4,679.1	4,698.3	4,671.0	10.9	11.6	-35.00	-230.1	414.3	77.6	59.3	18.35	4.230		
4,800.0	4,778.5	4,798.3	4,770.2	11.2	11.9	-34.95	-236.1	424.8	79.5	60.7	18.76	4.238		
4,900.0	4,878.0	4,898.3	4,869.5	11.4	12.2	-34.90	-242.1	435.3	81.3	62.2	19.16	4.246		
5,000.0	4,977.4	4,998.3	4,968.7	11.7	12.4	-34.85	-248.0	445.8	83.2	63.6	19.56	4.254		
5,100.0	5,076.9	5,098.2	5,068.0	11.9	12.7	-34.81	-254.0	456.3	85.1	65.1	19.96	4.261		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4R-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,176.3	5,198.2	5,167.2	12.2	13.0	-34.77	-260.0	466.8	86.9	66.6	20.37	4.268		
5,300.0	5,275.8	5,298.2	5,266.5	12.4	13.3	-34.73	-266.0	477.3	88.8	68.0	20.77	4.275		
5,400.0	5,375.2	5,398.2	5,365.7	12.7	13.5	-34.69	-271.9	487.7	90.6	69.5	21.17	4.281		
5,500.0	5,474.7	5,498.2	5,465.0	12.9	13.8	-34.65	-277.9	498.2	92.5	70.9	21.57	4.288		
5,600.0	5,574.1	5,598.2	5,564.2	13.2	14.1	-34.62	-283.9	508.7	94.4	72.4	21.97	4.294		
5,700.0	5,673.6	5,698.1	5,663.5	13.5	14.4	-34.58	-289.8	519.2	96.2	73.8	22.38	4.299		
5,800.0	5,773.0	5,798.1	5,762.7	13.7	14.6	-34.55	-295.8	529.7	98.1	75.3	22.78	4.305		
5,900.0	5,872.5	5,898.1	5,862.0	14.0	14.9	-34.52	-301.8	540.2	99.9	76.7	23.18	4.310		
6,000.0	5,971.9	5,998.1	5,961.2	14.2	15.2	-34.49	-307.8	550.7	101.8	78.2	23.58	4.316		
6,100.0	6,071.4	6,098.1	6,060.5	14.5	15.5	-34.46	-313.7	561.2	103.6	79.7	23.99	4.321		
6,200.0	6,170.8	6,198.1	6,159.7	14.7	15.7	-34.43	-319.7	571.7	105.5	81.1	24.39	4.326		
6,300.0	6,270.3	6,298.0	6,259.0	15.0	16.0	-34.40	-325.7	582.2	107.4	82.6	24.79	4.330		
6,400.0	6,369.7	6,398.0	6,358.2	15.2	16.3	-34.38	-331.7	592.7	109.2	84.0	25.19	4.335		
6,500.0	6,469.2	6,498.0	6,457.5	15.5	16.6	-34.35	-337.6	603.2	111.1	85.5	25.60	4.340		
6,600.0	6,568.6	6,598.0	6,556.7	15.7	16.8	-34.33	-343.6	613.7	112.9	86.9	26.00	4.344		
6,700.0	6,668.1	6,698.0	6,656.0	16.0	17.1	-34.30	-349.6	624.1	114.8	88.4	26.40	4.348		
6,800.0	6,767.5	6,797.9	6,755.2	16.2	17.4	-17.32	-355.5	634.6	116.6	89.9	26.77	4.357		
6,900.0	6,867.0	6,898.1	6,854.7	16.4	17.6	52.56	-353.1	645.2	118.4	91.6	26.83	4.414		
7,000.0	6,964.8	6,998.4	6,953.1	16.5	17.7	71.79	-336.7	655.6	120.1	93.4	26.72	4.494		
7,100.0	7,059.3	7,099.1	7,048.5	16.5	17.7	78.86	-306.5	665.6	121.6	95.1	26.50	4.589		
7,200.0	7,148.4	7,199.9	7,139.0	16.5	17.8	82.59	-263.1	675.2	122.9	96.7	26.23	4.685		
7,300.0	7,230.4	7,301.0	7,222.6	16.4	17.7	84.94	-207.2	684.1	124.0	98.0	26.03	4.764		
7,400.0	7,303.8	7,402.3	7,297.8	16.4	17.8	86.58	-139.9	692.0	124.8	98.9	25.97	4.808		
7,500.0	7,367.2	7,503.8	7,362.9	16.5	17.9	87.78	-62.5	698.9	125.4	99.3	26.14	4.798		
7,600.0	7,419.2	7,605.5	7,416.5	16.7	18.1	88.66	23.6	704.5	125.7	99.1	26.60	4.725		
7,700.0	7,459.0	7,707.2	7,457.6	17.1	18.4	89.29	116.5	708.9	125.7	98.3	27.41	4.587		
7,800.0	7,485.6	7,809.0	7,485.1	17.6	18.8	89.72	214.3	711.8	125.4	96.8	28.55	4.393		
7,900.0	7,498.6	7,910.9	7,498.6	18.2	19.4	89.95	315.2	713.2	124.8	94.8	30.00	4.160		
8,000.0	7,500.0	8,011.7	7,500.0	19.0	20.2	90.00	416.0	713.4	123.9	92.1	31.79	3.898		
8,100.0	7,500.0	8,111.7	7,500.0	19.9	21.0	90.00	516.0	713.4	123.1	89.2	33.91	3.630		
8,200.0	7,500.0	8,211.7	7,500.0	20.9	21.9	90.00	616.0	713.4	122.2	86.0	36.23	3.372		
8,300.0	7,500.0	8,311.7	7,500.0	22.0	23.0	90.00	716.0	713.4	121.3	82.6	38.74	3.132		
8,400.0	7,500.0	8,411.7	7,500.0	23.2	24.1	90.00	816.0	713.4	120.5	79.1	41.39	2.910		
8,500.0	7,500.0	8,511.7	7,500.0	24.4	25.3	90.00	916.0	713.4	119.6	75.4	44.16	2.708		
8,600.0	7,500.0	8,611.7	7,500.0	25.7	26.6	90.00	1,016.0	713.4	118.7	71.7	47.03	2.524		
8,700.0	7,500.0	8,711.6	7,500.0	27.1	27.9	90.00	1,116.0	713.4	117.8	67.8	49.99	2.357		
8,800.0	7,500.0	8,811.6	7,500.0	28.5	29.3	90.00	1,216.0	713.4	117.0	64.0	53.01	2.207		
8,900.0	7,500.0	8,911.6	7,500.0	29.9	30.7	90.00	1,316.0	713.4	116.1	60.0	56.08	2.070		
9,000.0	7,500.0	9,011.6	7,500.0	31.4	32.1	90.00	1,416.0	713.4	115.2	56.0	59.21	1.946		
9,100.0	7,500.0	9,111.6	7,500.0	32.9	33.6	90.00	1,515.9	713.4	114.3	52.0	62.37	1.833		
9,200.0	7,500.0	9,211.6	7,500.0	34.4	35.0	90.00	1,615.9	713.4	113.5	47.9	65.57	1.730		
9,300.0	7,500.0	9,311.6	7,500.0	36.0	36.6	90.00	1,715.9	713.4	112.6	43.8	68.80	1.637		
9,400.0	7,500.0	9,411.6	7,500.0	37.5	38.1	90.00	1,815.9	713.4	111.7	39.7	72.06	1.550		
9,500.0	7,500.0	9,511.6	7,500.0	39.1	39.7	90.00	1,915.9	713.4	110.9	35.5	75.34	1.471 Level 3		
9,600.0	7,500.0	9,611.6	7,500.0	40.7	41.2	90.00	2,015.9	713.4	110.0	31.3	78.64	1.399 Level 3		
9,700.0	7,500.0	9,711.6	7,500.0	42.3	42.8	90.00	2,115.9	713.4	109.1	27.2	81.95	1.331 Level 3		
9,800.0	7,500.0	9,811.6	7,500.0	43.9	44.4	90.00	2,215.9	713.4	108.3	23.0	85.28	1.269 Level 3		
9,841.1	7,500.0	9,852.7	7,500.0	44.6	45.1	90.00	2,257.0	713.4	108.1	21.5	86.66	1.248 Level 2		
9,900.0	7,500.0	9,911.6	7,500.0	45.6	46.0	90.00	2,315.9	713.4	108.5	19.9	88.63	1.224 Level 2		
10,000.0	7,500.0	10,011.6	7,500.0	47.2	47.6	90.00	2,415.9	713.4	109.4	17.4	91.99	1.189 Level 2		
10,100.0	7,500.0	10,111.6	7,500.0	48.8	49.3	90.00	2,515.9	713.4	110.2	14.9	95.35	1.156 Level 2		
10,200.0	7,500.0	10,211.6	7,500.0	50.5	50.9	90.00	2,615.9	713.4	111.1	12.3	98.73	1.125 Level 2		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		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			
10,300.0	7,500.0	10,311.6	7,500.0	52.1	52.5	90.00	2,715.9	713.4	111.9	9.8	102.12	1.096 Level 2		
10,400.0	7,500.0	10,411.6	7,500.0	53.8	54.2	90.00	2,815.9	713.4	112.8	7.3	105.51	1.069 Level 2		
10,500.0	7,500.0	10,511.6	7,500.0	55.5	55.8	90.00	2,915.9	713.4	113.6	4.7	108.91	1.043 Level 2		
10,600.0	7,500.0	10,611.6	7,500.0	57.1	57.5	90.00	3,015.9	713.4	114.5	2.2	112.32	1.019 Level 2		
10,700.0	7,500.0	10,711.6	7,500.0	58.8	59.2	90.00	3,115.9	713.4	115.3	-0.4	115.74	0.997 Level 1		
10,800.0	7,500.0	10,811.6	7,500.0	60.5	60.9	90.00	3,215.9	713.4	116.2	-3.0	119.16	0.975 Level 1		
10,900.0	7,500.0	10,911.6	7,500.0	62.2	62.5	90.00	3,315.9	713.4	117.0	-5.5	122.58	0.955 Level 1		
11,000.0	7,500.0	11,011.6	7,500.0	63.9	64.2	90.00	3,415.9	713.4	117.9	-8.1	126.01	0.936 Level 1		
11,100.0	7,500.0	11,111.6	7,500.0	65.6	65.9	90.00	3,515.9	713.4	118.8	-10.7	129.44	0.917 Level 1		
11,200.0	7,500.0	11,211.6	7,500.0	67.3	67.6	90.00	3,615.9	713.4	119.6	-13.3	132.88	0.900 Level 1		
11,300.0	7,500.0	11,311.6	7,500.0	69.0	69.3	90.00	3,715.9	713.4	120.5	-15.9	136.32	0.884 Level 1		
11,400.0	7,500.0	11,409.2	7,500.0	70.7	70.9	90.00	3,813.5	714.0	122.0	-18.2	140.13	0.870 Level 1, ES, SF		
11,500.0	7,500.0	11,505.4	7,500.0	72.4	72.6	90.00	3,909.7	717.3	126.2	-17.8	144.03	0.876 Level 1		
11,600.0	7,500.0	11,600.0	7,500.0	74.1	74.2	90.00	4,004.1	723.3	133.5	-14.4	147.88	0.902 Level 1		
11,700.0	7,500.0	11,696.8	7,500.0	75.8	75.9	90.00	4,100.4	732.3	143.6	-7.8	151.44	0.948 Level 1		
11,800.0	7,500.0	11,791.6	7,500.0	77.5	77.5	90.00	4,194.5	743.8	156.6	1.7	154.94	1.011 Level 2		
11,845.2	7,500.0	11,834.5	7,500.0	78.3	78.3	90.00	4,236.9	749.9	163.5	7.0	156.48	1.045 Level 2		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.10	0.0	20.1	20.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.10	0.0	20.1	20.1	19.8	0.30	67.894		
200.0	200.0	200.0	200.0	0.3	0.3	90.10	0.0	20.1	20.1	19.5	0.65	31.195		
300.0	300.0	300.0	300.0	0.5	0.5	90.10	0.0	20.1	20.1	19.1	0.99	20.249		
400.0	400.0	400.0	400.0	0.7	0.7	90.10	0.0	20.1	20.1	18.8	1.34	14.990 CC, ES		
500.0	500.0	499.7	499.7	0.8	0.8	91.06	-0.4	20.9	20.9	19.2	1.69	12.375		
600.0	600.0	599.3	599.3	1.0	1.0	-32.00	-1.4	23.3	22.6	20.6	2.04	11.084		
700.0	700.0	698.9	698.8	1.2	1.2	-31.49	-3.2	27.3	24.4	22.1	2.39	10.225		
800.0	799.9	798.5	798.2	1.4	1.4	-31.66	-5.7	32.8	26.4	23.7	2.74	9.624		
900.0	899.7	898.0	897.4	1.6	1.6	-32.37	-8.9	39.9	28.5	25.4	3.10	9.190		
1,000.0	999.4	997.5	996.4	1.8	1.8	-33.50	-12.7	48.6	30.7	27.3	3.46	8.867		
1,100.0	1,098.9	1,097.0	1,095.3	2.0	2.1	-34.95	-17.3	58.8	33.1	29.3	3.84	8.618		
1,200.0	1,198.4	1,196.4	1,193.8	2.2	2.3	-35.86	-22.6	70.6	36.4	32.1	4.23	8.598		
1,300.0	1,297.8	1,296.0	1,292.4	2.5	2.6	-35.74	-28.5	83.7	40.9	36.3	4.62	8.859		
1,400.0	1,397.3	1,395.9	1,391.2	2.7	2.9	-35.55	-34.4	97.0	45.6	40.6	5.01	9.099		
1,500.0	1,496.7	1,495.8	1,490.1	2.9	3.2	-35.40	-40.4	110.3	50.3	44.9	5.40	9.302		
1,600.0	1,596.1	1,595.7	1,588.9	3.2	3.5	-35.28	-46.3	123.6	54.9	49.1	5.80	9.474		
1,700.0	1,695.6	1,695.6	1,687.7	3.4	3.8	-35.17	-52.2	136.8	59.6	53.4	6.20	9.622		
1,800.0	1,795.0	1,795.5	1,786.5	3.7	4.1	-35.08	-58.2	150.1	64.3	57.7	6.60	9.751		
1,900.0	1,894.5	1,895.4	1,885.4	3.9	4.4	-35.01	-64.1	163.4	69.0	62.0	6.99	9.864		
2,000.0	1,993.9	1,995.3	1,984.2	4.2	4.7	-34.94	-70.1	176.7	73.7	66.3	7.39	9.964		
2,100.0	2,093.4	2,095.1	2,083.0	4.4	5.0	-34.88	-76.0	190.0	78.4	70.6	7.79	10.053		
2,200.0	2,192.8	2,195.0	2,181.8	4.6	5.3	-34.83	-82.0	203.3	83.0	74.8	8.20	10.132		
2,300.0	2,292.3	2,294.9	2,280.7	4.9	5.6	-34.78	-87.9	216.6	87.7	79.1	8.60	10.204		
2,400.0	2,391.7	2,394.8	2,379.5	5.1	5.9	-34.74	-93.8	229.9	92.4	83.4	9.00	10.269		
2,500.0	2,491.2	2,494.7	2,478.3	5.4	6.2	-34.70	-99.8	243.1	97.1	87.7	9.40	10.328		
2,600.0	2,590.6	2,594.6	2,577.1	5.6	6.5	-34.66	-105.7	256.4	101.8	92.0	9.80	10.382		
2,700.0	2,690.1	2,694.5	2,676.0	5.9	6.8	-34.63	-111.7	269.7	106.5	96.2	10.20	10.431		
2,800.0	2,789.5	2,794.4	2,774.8	6.1	7.1	-34.60	-117.6	283.0	111.1	100.5	10.61	10.477		
2,900.0	2,889.0	2,894.3	2,873.6	6.4	7.4	-34.58	-123.6	296.3	115.8	104.8	11.01	10.519		
3,000.0	2,988.4	2,994.2	2,972.4	6.6	7.7	-34.55	-129.5	309.6	120.5	109.1	11.41	10.558		
3,100.0	3,087.9	3,094.1	3,071.3	6.9	8.0	-34.53	-135.4	322.9	125.2	113.4	11.82	10.594		
3,200.0	3,187.3	3,193.9	3,170.1	7.2	8.3	-34.51	-141.4	336.1	129.9	117.6	12.22	10.627		
3,300.0	3,286.8	3,293.8	3,268.9	7.4	8.6	-34.49	-147.3	349.4	134.5	121.9	12.62	10.659		
3,400.0	3,386.2	3,393.7	3,367.7	7.7	8.9	-34.47	-153.3	362.7	139.2	126.2	13.03	10.688		
3,500.0	3,485.7	3,493.6	3,466.6	7.9	9.3	-34.45	-159.2	376.0	143.9	130.5	13.43	10.716		
3,600.0	3,585.1	3,593.5	3,565.4	8.2	9.6	-34.44	-165.2	389.3	148.6	134.8	13.83	10.741		
3,700.0	3,684.6	3,693.4	3,664.2	8.4	9.9	-34.42	-171.1	402.6	153.3	139.0	14.24	10.766		
3,800.0	3,784.0	3,793.3	3,763.0	8.7	10.2	-34.41	-177.1	415.9	158.0	143.3	14.64	10.788		
3,900.0	3,883.5	3,893.2	3,861.9	8.9	10.5	-34.40	-183.0	429.1	162.6	147.6	15.05	10.810		
4,000.0	3,982.9	3,993.1	3,960.7	9.2	10.8	-34.38	-188.9	442.4	167.3	151.9	15.45	10.830		
4,100.0	4,082.4	4,093.0	4,059.5	9.4	11.1	-34.37	-194.9	455.7	172.0	156.2	15.85	10.850		
4,200.0	4,181.8	4,192.8	4,158.3	9.7	11.4	-34.36	-200.8	469.0	176.7	160.4	16.26	10.868		
4,300.0	4,281.3	4,292.7	4,257.1	9.9	11.7	-34.35	-206.8	482.3	181.4	164.7	16.66	10.886		
4,400.0	4,380.7	4,392.6	4,356.0	10.2	12.0	-34.34	-212.7	495.6	186.1	169.0	17.07	10.902		
4,500.0	4,480.2	4,492.5	4,454.8	10.4	12.3	-34.33	-218.7	508.9	190.7	173.3	17.47	10.918		
4,600.0	4,579.6	4,592.4	4,553.6	10.7	12.6	-34.32	-224.6	522.1	195.4	177.6	17.88	10.933		
4,700.0	4,679.1	4,692.3	4,652.4	10.9	13.0	-34.31	-230.5	535.4	200.1	181.8	18.28	10.947		
4,800.0	4,778.5	4,792.2	4,751.3	11.2	13.3	-34.30	-236.5	548.7	204.8	186.1	18.68	10.961		
4,900.0	4,878.0	4,892.1	4,850.1	11.4	13.6	-34.29	-242.4	562.0	209.5	190.4	19.09	10.974		
5,000.0	4,977.4	4,992.0	4,948.9	11.7	13.9	-34.29	-248.4	575.3	214.2	194.7	19.49	10.987		
5,100.0	5,076.9	5,091.9	5,047.7	11.9	14.2	-34.28	-254.3	588.6	218.8	198.9	19.90	10.999		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,176.3	5,191.7	5,146.6	12.2	14.5	-34.27	-260.3	601.9	223.5	203.2	20.30	11.010	
5,300.0	5,275.8	5,291.6	5,245.4	12.4	14.8	-34.27	-266.2	615.1	228.2	207.5	20.71	11.021	
5,400.0	5,375.2	5,391.5	5,344.2	12.7	15.1	-34.26	-272.1	628.4	232.9	211.8	21.11	11.032	
5,500.0	5,474.7	5,491.4	5,443.0	12.9	15.4	-34.25	-278.1	641.7	237.6	216.1	21.52	11.042	
5,600.0	5,574.1	5,591.3	5,541.9	13.2	15.7	-34.25	-284.0	655.0	242.3	220.3	21.92	11.052	
5,700.0	5,673.6	5,691.2	5,640.7	13.5	16.0	-34.24	-290.0	668.3	246.9	224.6	22.33	11.061	
5,800.0	5,773.0	5,791.1	5,739.5	13.7	16.4	-34.24	-295.9	681.6	251.6	228.9	22.73	11.070	
5,900.0	5,872.5	5,891.0	5,838.3	14.0	16.7	-34.23	-301.9	694.9	256.3	233.2	23.13	11.079	
6,000.0	5,971.9	5,990.9	5,937.2	14.2	17.0	-34.23	-307.8	708.2	261.0	237.5	23.54	11.088	
6,100.0	6,071.4	6,090.8	6,036.0	14.5	17.3	-34.22	-313.7	721.4	265.7	241.7	23.94	11.096	
6,200.0	6,170.8	6,190.6	6,134.8	14.7	17.6	-34.22	-319.7	734.7	270.4	246.0	24.35	11.104	
6,300.0	6,270.3	6,290.5	6,233.6	15.0	17.9	-34.21	-325.6	748.0	275.0	250.3	24.75	11.111	
6,400.0	6,369.7	6,390.4	6,332.5	15.2	18.2	-34.21	-331.6	761.3	279.7	254.6	25.16	11.119	
6,500.0	6,469.2	6,490.3	6,431.3	15.5	18.5	-34.20	-337.5	774.6	284.4	258.8	25.56	11.126	
6,600.0	6,568.6	6,590.2	6,530.1	15.7	18.8	-34.20	-343.5	787.9	289.1	263.1	25.97	11.133	
6,700.0	6,668.1	6,690.1	6,628.9	16.0	19.1	-34.19	-349.4	801.2	293.8	267.4	26.37	11.139	
6,800.0	6,767.5	6,790.0	6,727.7	16.2	19.4	-17.35	-355.4	814.4	298.5	271.7	26.76	11.154	
6,900.0	6,867.0	6,890.1	6,826.9	16.4	19.7	52.51	-356.9	827.8	303.1	276.3	26.80	11.311	
7,000.0	6,964.8	6,991.1	6,926.1	16.5	19.9	71.77	-344.6	841.1	307.7	281.0	26.65	11.543	
7,100.0	7,059.3	7,092.9	7,023.5	16.5	20.0	78.88	-318.0	854.2	312.1	285.7	26.41	11.815	
7,200.0	7,148.4	7,195.6	7,116.9	16.5	20.1	82.64	-277.5	866.8	316.2	290.0	26.16	12.089	
7,300.0	7,230.4	7,299.2	7,204.3	16.4	20.2	85.01	-223.3	878.5	319.9	294.0	25.97	12.319	
7,400.0	7,303.8	7,403.5	7,283.6	16.4	20.2	86.67	-156.5	889.2	323.2	297.2	25.94	12.458	
7,500.0	7,367.2	7,508.5	7,352.8	16.5	20.3	87.86	-78.3	898.5	325.9	299.7	26.15	12.460	
7,600.0	7,419.2	7,614.0	7,410.3	16.7	20.5	88.74	9.8	906.2	327.9	301.3	26.65	12.306	
7,700.0	7,459.0	7,720.1	7,454.4	17.1	20.8	89.36	105.9	912.1	329.2	301.8	27.47	11.987	
7,800.0	7,485.6	7,826.4	7,484.1	17.6	21.3	89.76	207.8	916.1	329.8	301.2	28.60	11.530	
7,900.0	7,498.6	7,932.9	7,498.6	18.2	21.8	89.97	313.3	918.1	329.6	299.6	30.03	10.976	
8,000.0	7,500.0	8,035.7	7,500.0	19.0	22.5	90.00	416.0	918.3	328.8	297.0	31.83	10.332	
8,100.0	7,500.0	8,135.7	7,500.0	19.9	23.2	90.00	516.0	918.3	328.0	294.0	33.94	9.664	
8,200.0	7,500.0	8,235.7	7,500.0	20.9	24.1	90.00	616.0	918.3	327.1	290.8	36.26	9.020	
8,300.0	7,500.0	8,335.7	7,500.0	22.0	25.0	90.00	716.0	918.3	326.2	287.4	38.77	8.415	
8,400.0	7,500.0	8,435.7	7,500.0	23.2	26.1	90.00	816.0	918.3	325.3	283.9	41.42	7.855	
8,500.0	7,500.0	8,535.7	7,500.0	24.4	27.2	90.00	916.0	918.3	324.5	280.3	44.19	7.343	
8,600.0	7,500.0	8,635.7	7,500.0	25.7	28.4	90.00	1,016.0	918.3	323.6	276.5	47.06	6.877	
8,700.0	7,500.0	8,735.7	7,500.0	27.1	29.6	90.00	1,116.0	918.3	322.7	272.7	50.01	6.454	
8,800.0	7,500.0	8,835.6	7,500.0	28.5	30.9	90.00	1,216.0	918.3	321.8	268.8	53.03	6.070	
8,900.0	7,500.0	8,935.6	7,500.0	29.9	32.2	90.00	1,316.0	918.3	321.0	264.9	56.10	5.721	
9,000.0	7,500.0	9,035.6	7,500.0	31.4	33.6	90.00	1,416.0	918.3	320.1	260.9	59.22	5.405	
9,100.0	7,500.0	9,135.6	7,500.0	32.9	35.0	90.00	1,515.9	918.3	319.2	256.8	62.39	5.117	
9,200.0	7,500.0	9,235.6	7,500.0	34.4	36.4	90.00	1,615.9	918.3	318.4	252.8	65.59	4.854	
9,300.0	7,500.0	9,335.6	7,500.0	36.0	37.9	90.00	1,715.9	918.3	317.5	248.7	68.82	4.613	
9,400.0	7,500.0	9,435.6	7,500.0	37.5	39.4	90.00	1,815.9	918.3	316.6	244.5	72.07	4.393	
9,500.0	7,500.0	9,535.6	7,500.0	39.1	40.9	90.00	1,915.9	918.3	315.7	240.4	75.35	4.190	
9,600.0	7,500.0	9,635.6	7,500.0	40.7	42.4	90.00	2,015.9	918.3	314.9	236.2	78.65	4.003	
9,700.0	7,500.0	9,735.6	7,500.0	42.3	43.9	90.00	2,115.9	918.3	314.0	232.0	81.97	3.831	
9,800.0	7,500.0	9,835.6	7,500.0	43.9	45.5	90.00	2,215.9	918.3	313.1	227.8	85.30	3.671	
9,841.1	7,500.0	9,876.7	7,500.0	44.6	46.1	90.00	2,257.0	918.3	313.0	226.4	86.67	3.612	
9,900.0	7,500.0	9,935.6	7,500.0	45.6	47.1	90.00	2,315.9	918.3	313.4	224.8	88.64	3.536	
10,000.0	7,500.0	10,035.6	7,500.0	47.2	48.6	90.00	2,415.9	918.3	314.3	222.3	92.00	3.416	
10,100.0	7,500.0	10,135.6	7,500.0	48.8	50.2	90.00	2,515.9	918.3	315.1	219.7	95.37	3.304	
10,200.0	7,500.0	10,235.6	7,500.0	50.5	51.8	90.00	2,615.9	918.3	316.0	217.2	98.74	3.200	

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4S-32H-O268 - OH - PLAN #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
10,300.0	7,500.0	10,335.6	7,500.0	52.1	53.5	90.00	2,715.9	918.3	316.8	214.7	102.13	3.102	
10,400.0	7,500.0	10,435.6	7,500.0	53.8	55.1	90.00	2,815.9	918.3	317.7	212.1	105.53	3.010	
10,500.0	7,500.0	10,535.6	7,500.0	55.5	56.7	90.00	2,915.9	918.3	318.5	209.6	108.93	2.924	
10,600.0	7,500.0	10,635.6	7,500.0	57.1	58.4	90.00	3,015.9	918.3	319.4	207.0	112.33	2.843	
10,700.0	7,500.0	10,735.6	7,500.0	58.8	60.0	90.00	3,115.9	918.3	320.2	204.5	115.75	2.767	
10,800.0	7,500.0	10,835.6	7,500.0	60.5	61.6	90.00	3,215.9	918.3	321.1	201.9	119.17	2.694	
10,900.0	7,500.0	10,935.6	7,500.0	62.2	63.3	90.00	3,315.9	918.3	321.9	199.3	122.59	2.626	
11,000.0	7,500.0	11,035.6	7,500.0	63.9	65.0	90.00	3,415.9	918.3	322.8	196.8	126.02	2.561	
11,100.0	7,500.0	11,135.6	7,500.0	65.6	66.6	90.00	3,515.9	918.3	323.6	194.2	129.46	2.500	
11,200.0	7,500.0	11,235.6	7,500.0	67.3	68.3	90.00	3,615.9	918.3	324.5	191.6	132.89	2.442	
11,300.0	7,500.0	11,335.6	7,500.0	69.0	70.0	90.00	3,715.9	918.3	325.3	189.0	136.33	2.386	
11,400.0	7,500.0	11,435.6	7,500.0	70.7	71.7	90.00	3,815.9	918.3	326.2	186.4	139.78	2.334	
11,500.0	7,500.0	11,535.6	7,500.0	72.4	73.3	90.00	3,915.9	918.3	327.1	183.8	143.22	2.284	
11,600.0	7,500.0	11,635.6	7,500.0	74.1	75.0	90.00	4,015.9	918.3	327.9	181.2	146.67	2.236	
11,700.0	7,500.0	11,735.6	7,500.0	75.8	76.7	90.00	4,115.9	918.3	328.8	178.6	150.13	2.190	
11,800.0	7,500.0	11,835.6	7,500.0	77.5	78.4	90.00	4,215.8	918.3	329.6	176.0	153.58	2.146	
11,845.2	7,500.0	11,878.1	7,500.0	78.3	79.1	90.00	4,258.4	918.3	330.0	174.7	155.30	2.125 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	89.94	0.0	30.2	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	89.94	0.0	30.2	30.2	29.9	0.30	101.842		
200.0	200.0	200.0	200.0	0.3	0.3	89.94	0.0	30.2	30.2	29.6	0.65	46.792		
300.0	300.0	300.0	300.0	0.5	0.5	89.94	0.0	30.2	30.2	29.2	0.99	30.374		
303.4	303.4	303.4	303.4	0.5	0.5	89.94	0.0	30.2	30.2	29.2	1.01	30.020 CC		
400.0	400.0	399.8	399.8	0.7	0.7	90.07	0.0	30.4	30.4	29.1	1.34	22.644 ES		
500.0	500.0	499.2	499.2	0.8	0.8	91.11	-0.6	32.0	32.1	30.4	1.69	18.956		
600.0	600.0	598.6	598.6	1.0	1.0	-32.29	-1.8	35.3	34.6	32.6	2.04	16.980		
700.0	700.0	698.0	697.8	1.2	1.2	-32.03	-3.5	40.2	37.4	35.0	2.39	15.651		
800.0	799.9	797.3	796.9	1.4	1.4	-32.38	-5.8	46.7	40.3	37.6	2.74	14.713		
900.0	899.7	896.6	895.8	1.6	1.6	-33.22	-8.7	54.8	43.4	40.3	3.10	14.026		
1,000.0	999.4	995.8	994.4	1.8	1.9	-34.43	-12.2	64.5	46.7	43.3	3.46	13.507		
1,100.0	1,098.9	1,094.9	1,092.8	2.0	2.1	-35.94	-16.2	75.8	50.3	46.4	3.84	13.101		
1,200.0	1,198.4	1,194.0	1,190.9	2.2	2.4	-37.14	-20.8	88.7	54.7	50.5	4.22	12.954		
1,300.0	1,297.8	1,292.9	1,288.6	2.5	2.7	-37.52	-26.0	103.1	60.8	56.1	4.61	13.170		
1,400.0	1,397.3	1,391.9	1,386.1	2.7	3.0	-37.28	-31.7	119.1	68.3	63.3	5.00	13.656		
1,500.0	1,496.7	1,491.5	1,484.3	2.9	3.3	-36.97	-37.6	135.7	76.3	70.9	5.40	14.133		
1,600.0	1,596.1	1,591.2	1,582.4	3.2	3.7	-36.71	-43.5	152.2	84.3	78.5	5.80	14.542		
1,700.0	1,695.6	1,690.9	1,680.5	3.4	4.0	-36.50	-49.3	168.7	92.3	86.1	6.20	14.895		
1,800.0	1,795.0	1,790.6	1,778.6	3.7	4.3	-36.32	-55.2	185.3	100.3	93.7	6.60	15.205		
1,900.0	1,894.5	1,890.3	1,876.8	3.9	4.7	-36.17	-61.1	201.8	108.3	101.3	7.00	15.477		
2,000.0	1,993.9	1,989.9	1,974.9	4.2	5.0	-36.04	-67.0	218.3	116.3	108.9	7.40	15.719		
2,100.0	2,093.4	2,089.6	2,073.0	4.4	5.4	-35.93	-72.9	234.9	124.3	116.5	7.80	15.935		
2,200.0	2,192.8	2,189.3	2,171.1	4.6	5.7	-35.83	-78.8	251.4	132.3	124.1	8.20	16.129		
2,300.0	2,292.3	2,289.0	2,269.2	4.9	6.1	-35.74	-84.7	267.9	140.3	131.7	8.60	16.304		
2,400.0	2,391.7	2,388.7	2,367.4	5.1	6.4	-35.66	-90.6	284.5	148.3	139.3	9.01	16.463		
2,500.0	2,491.2	2,488.3	2,465.5	5.4	6.8	-35.59	-96.5	301.0	156.3	146.9	9.41	16.608		
2,600.0	2,590.6	2,588.0	2,563.6	5.6	7.1	-35.52	-102.4	317.5	164.3	154.5	9.81	16.740		
2,700.0	2,690.1	2,687.7	2,661.7	5.9	7.5	-35.46	-108.3	334.1	172.3	162.0	10.22	16.862		
2,800.0	2,789.5	2,787.4	2,759.9	6.1	7.8	-35.41	-114.2	350.6	180.3	169.6	10.62	16.974		
2,900.0	2,889.0	2,887.1	2,858.0	6.4	8.2	-35.36	-120.1	367.1	188.3	177.2	11.02	17.078		
3,000.0	2,988.4	2,986.7	2,956.1	6.6	8.5	-35.32	-126.0	383.7	196.3	184.8	11.43	17.174		
3,100.0	3,087.9	3,086.4	3,054.2	6.9	8.9	-35.28	-131.9	400.2	204.3	192.4	11.83	17.264		
3,200.0	3,187.3	3,186.1	3,152.3	7.2	9.2	-35.24	-137.7	416.7	212.3	200.0	12.24	17.347		
3,300.0	3,286.8	3,285.8	3,250.5	7.4	9.6	-35.20	-143.6	433.3	220.3	207.6	12.64	17.425		
3,400.0	3,386.2	3,385.5	3,348.6	7.7	9.9	-35.17	-149.5	449.8	228.2	215.2	13.04	17.498		
3,500.0	3,485.7	3,485.1	3,446.7	7.9	10.3	-35.14	-155.4	466.3	236.2	222.8	13.45	17.567		
3,600.0	3,585.1	3,584.8	3,544.8	8.2	10.6	-35.11	-161.3	482.9	244.2	230.4	13.85	17.631		
3,700.0	3,684.6	3,684.5	3,642.9	8.4	11.0	-35.08	-167.2	499.4	252.2	238.0	14.26	17.692		
3,800.0	3,784.0	3,784.2	3,741.1	8.7	11.4	-35.06	-173.1	515.9	260.2	245.6	14.66	17.749		
3,900.0	3,883.5	3,883.9	3,839.2	8.9	11.7	-35.04	-179.0	532.5	268.2	253.2	15.07	17.803		
4,000.0	3,982.9	3,983.5	3,937.3	9.2	12.1	-35.01	-184.9	549.0	276.2	260.8	15.47	17.855		
4,100.0	4,082.4	4,083.2	4,035.4	9.4	12.4	-34.99	-190.8	565.5	284.2	268.4	15.88	17.903		
4,200.0	4,181.8	4,182.9	4,133.6	9.7	12.8	-34.97	-196.7	582.1	292.2	276.0	16.28	17.949		
4,300.0	4,281.3	4,282.6	4,231.7	9.9	13.1	-34.95	-202.6	598.6	300.2	283.5	16.69	17.993		
4,400.0	4,380.7	4,382.2	4,329.8	10.2	13.5	-34.94	-208.5	615.1	308.2	291.1	17.09	18.035		
4,500.0	4,480.2	4,481.9	4,427.9	10.4	13.8	-34.92	-214.4	631.7	316.2	298.7	17.50	18.074		
4,600.0	4,579.6	4,581.6	4,526.0	10.7	14.2	-34.90	-220.3	648.2	324.2	306.3	17.90	18.112		
4,700.0	4,679.1	4,681.3	4,624.2	10.9	14.5	-34.89	-226.1	664.7	332.2	313.9	18.31	18.148		
4,800.0	4,778.5	4,781.0	4,722.3	11.2	14.9	-34.87	-232.0	681.3	340.2	321.5	18.71	18.183		
4,900.0	4,878.0	4,880.6	4,820.4	11.4	15.3	-34.86	-237.9	697.8	348.2	329.1	19.12	18.216		
5,000.0	4,977.4	4,980.3	4,918.5	11.7	15.6	-34.85	-243.8	714.3	356.2	336.7	19.52	18.248		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4T-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,080.0	5,016.7	11.9	16.0	-34.83	-249.7	730.9	364.2	344.3	19.93	18.278		
5,200.0	5,176.3	5,179.7	5,114.8	12.2	16.3	-34.82	-255.6	747.4	372.2	351.9	20.33	18.307		
5,300.0	5,275.8	5,279.4	5,212.9	12.4	16.7	-34.81	-261.5	763.9	380.2	359.5	20.74	18.335		
5,400.0	5,375.2	5,379.0	5,311.0	12.7	17.0	-34.80	-267.4	780.5	388.2	367.1	21.14	18.362		
5,500.0	5,474.7	5,478.7	5,409.1	12.9	17.4	-34.79	-273.3	797.0	396.2	374.7	21.55	18.388		
5,600.0	5,574.1	5,578.4	5,507.3	13.2	17.7	-34.78	-279.2	813.5	404.2	382.3	21.95	18.413		
5,700.0	5,673.6	5,678.1	5,605.4	13.5	18.1	-34.77	-285.1	830.1	412.2	389.9	22.36	18.437		
5,800.0	5,773.0	5,777.8	5,703.5	13.7	18.5	-34.76	-291.0	846.6	420.2	397.4	22.76	18.460		
5,900.0	5,872.5	5,877.4	5,801.6	14.0	18.8	-34.75	-296.9	863.1	428.2	405.0	23.17	18.482		
6,000.0	5,971.9	5,977.1	5,899.8	14.2	19.2	-34.74	-302.8	879.7	436.2	412.6	23.57	18.504		
6,100.0	6,071.4	6,076.8	5,997.9	14.5	19.5	-34.73	-308.7	896.2	444.2	420.2	23.98	18.525		
6,200.0	6,170.8	6,176.5	6,096.0	14.7	19.9	-34.72	-314.6	912.7	452.2	427.8	24.38	18.545		
6,300.0	6,270.3	6,276.2	6,194.1	15.0	20.2	-34.72	-320.4	929.2	460.2	435.4	24.79	18.564		
6,400.0	6,369.7	6,375.8	6,292.2	15.2	20.6	-34.71	-326.3	945.8	468.2	443.0	25.20	18.583		
6,500.0	6,469.2	6,475.5	6,390.4	15.5	20.9	-34.70	-332.2	962.3	476.2	450.6	25.60	18.601		
6,600.0	6,568.6	6,575.2	6,488.5	15.7	21.3	-34.69	-338.1	978.8	484.2	458.2	26.01	18.619		
6,700.0	6,668.1	6,674.9	6,586.6	16.0	21.6	-34.69	-344.0	995.4	492.2	465.8	26.41	18.636		
6,800.0	6,767.5	6,774.6	6,684.7	16.2	22.0	-17.93	-349.9	1,011.9	500.2	473.4	26.80	18.663		
6,900.0	6,867.0	6,873.7	6,782.3	16.4	22.3	51.65	-355.1	1,028.4	508.1	481.2	26.85	18.924		
7,000.0	6,964.8	6,973.5	6,880.6	16.5	22.6	70.96	-349.9	1,045.0	516.1	489.5	26.65	19.365		
7,100.0	7,059.3	7,075.2	6,978.9	16.5	22.9	78.14	-330.4	1,061.7	524.1	497.8	26.37	19.879		
7,200.0	7,148.4	7,178.9	7,075.3	16.5	23.0	81.97	-296.2	1,078.3	532.0	505.9	26.08	20.395		
7,300.0	7,230.4	7,284.6	7,167.5	16.4	23.2	84.44	-247.2	1,094.2	539.4	513.5	25.90	20.827		
7,400.0	7,303.8	7,392.3	7,253.0	16.4	23.3	86.19	-183.7	1,109.1	546.3	520.4	25.90	21.093		
7,500.0	7,367.2	7,502.0	7,329.5	16.5	23.5	87.49	-106.4	1,122.5	552.4	526.3	26.15	21.121		
7,600.0	7,419.2	7,613.3	7,394.3	16.7	23.7	88.47	-16.7	1,134.1	557.5	530.8	26.70	20.879		
7,700.0	7,459.0	7,726.2	7,445.2	17.1	24.0	89.18	83.4	1,143.4	561.5	534.0	27.57	20.369		
7,800.0	7,485.6	7,840.2	7,480.2	17.6	24.4	89.67	191.6	1,150.1	564.2	535.5	28.72	19.643		
7,900.0	7,498.6	7,955.0	7,497.9	18.2	24.9	89.94	304.8	1,153.8	565.5	535.4	30.14	18.762		
8,000.0	7,500.0	8,062.3	7,500.0	19.0	25.5	90.00	412.0	1,154.9	565.5	533.6	31.92	17.718		
8,100.0	7,500.0	8,162.3	7,500.0	19.9	26.2	90.00	512.0	1,155.6	565.3	531.3	34.04	16.610		
8,200.0	7,500.0	8,262.3	7,500.0	20.9	27.0	90.00	612.0	1,156.3	565.2	528.8	36.37	15.539		
8,300.0	7,500.0	8,362.3	7,500.0	22.0	27.8	90.00	712.0	1,157.0	565.0	526.1	38.88	14.531		
8,400.0	7,500.0	8,462.3	7,500.0	23.2	28.8	90.00	812.0	1,157.7	564.8	523.3	41.54	13.598		
8,500.0	7,500.0	8,562.3	7,500.0	24.4	29.8	90.00	912.0	1,158.4	564.7	520.3	44.31	12.743		
8,600.0	7,500.0	8,662.3	7,500.0	25.7	30.8	90.00	1,012.0	1,159.1	564.5	517.3	47.18	11.963		
8,700.0	7,500.0	8,762.3	7,500.0	27.1	32.0	90.00	1,112.0	1,159.8	564.3	514.2	50.14	11.255		
8,800.0	7,500.0	8,862.3	7,500.0	28.5	33.2	90.00	1,212.0	1,160.5	564.1	511.0	53.16	10.612		
8,900.0	7,500.0	8,962.3	7,500.0	29.9	34.4	90.00	1,312.0	1,161.2	564.0	507.7	56.24	10.028		
9,000.0	7,500.0	9,062.3	7,500.0	31.4	35.7	90.00	1,412.0	1,161.9	563.8	504.4	59.36	9.497		
9,100.0	7,500.0	9,162.3	7,500.0	32.9	37.0	90.00	1,512.0	1,162.6	563.6	501.1	62.53	9.014		
9,200.0	7,500.0	9,262.3	7,500.0	34.4	38.4	90.00	1,612.0	1,163.3	563.4	497.7	65.73	8.572		
9,300.0	7,500.0	9,362.3	7,500.0	36.0	39.8	90.00	1,712.0	1,164.0	563.3	494.3	68.96	8.168		
9,400.0	7,500.0	9,462.3	7,500.0	37.5	41.2	90.00	1,812.0	1,164.7	563.1	490.9	72.22	7.797		
9,500.0	7,500.0	9,562.3	7,500.0	39.1	42.6	90.00	1,912.0	1,165.4	562.9	487.4	75.50	7.456		
9,600.0	7,500.0	9,662.3	7,500.0	40.7	44.1	90.00	2,012.0	1,166.1	562.7	483.9	78.80	7.142		
9,700.0	7,500.0	9,762.3	7,500.0	42.3	45.6	90.00	2,112.0	1,166.8	562.6	480.4	82.11	6.851		
9,788.5	7,500.0	9,850.8	7,500.0	43.8	46.9	90.00	2,200.5	1,167.4	562.5	477.4	85.06	6.613		
9,800.0	7,500.0	9,862.3	7,500.0	43.9	47.1	90.00	2,212.0	1,167.5	562.4	477.0	85.44	6.582		
9,900.0	7,500.0	9,962.3	7,500.0	45.6	48.6	90.00	2,312.0	1,168.2	563.4	474.6	88.79	6.345		
10,000.0	7,500.0	10,062.2	7,500.0	47.2	50.1	90.00	2,412.0	1,168.9	564.9	472.8	92.15	6.131		
10,100.0	7,500.0	10,162.2	7,500.0	48.8	51.7	90.00	2,512.0	1,169.6	566.5	470.9	95.51	5.931		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
10,200.0	7,500.0	10,261.1	7,500.0	50.5	53.2	90.00	2,610.9	1,170.3	568.0	469.1	98.93	5.742		
10,300.0	7,500.0	10,352.1	7,500.0	52.1	54.7	90.00	2,701.8	1,171.8	570.6	468.0	102.59	5.561		
10,400.0	7,500.0	10,442.9	7,500.0	53.8	56.1	90.00	2,792.6	1,174.8	574.7	468.4	106.24	5.409		
10,500.0	7,500.0	10,537.1	7,500.0	55.5	57.7	90.00	2,886.7	1,179.3	580.3	470.5	109.79	5.285		
10,600.0	7,500.0	10,637.0	7,500.0	57.1	59.3	90.00	2,986.4	1,184.3	586.1	473.0	113.19	5.178		
10,700.0	7,500.0	10,736.8	7,500.0	58.8	60.9	90.00	3,086.1	1,189.3	592.0	475.4	116.60	5.077		
10,800.0	7,500.0	10,836.6	7,500.0	60.5	62.6	90.00	3,185.8	1,194.3	597.9	477.9	120.02	4.982		
10,900.0	7,500.0	10,936.4	7,500.0	62.2	64.2	90.00	3,285.5	1,199.4	603.8	480.4	123.44	4.891		
11,000.0	7,500.0	11,036.3	7,500.0	63.9	65.9	90.00	3,385.2	1,204.4	609.7	482.8	126.87	4.806		
11,100.0	7,500.0	11,136.1	7,500.0	65.6	67.5	90.00	3,484.9	1,209.4	615.6	485.3	130.30	4.724		
11,200.0	7,500.0	11,235.9	7,500.0	67.3	69.2	90.00	3,584.6	1,214.4	621.5	487.7	133.73	4.647		
11,300.0	7,500.0	11,335.8	7,500.0	69.0	70.8	90.00	3,684.3	1,219.5	627.3	490.2	137.17	4.573		
11,400.0	7,500.0	11,435.6	7,500.0	70.7	72.5	90.00	3,784.0	1,224.5	633.2	492.6	140.61	4.503		
11,500.0	7,500.0	11,535.4	7,500.0	72.4	74.2	90.00	3,883.7	1,229.5	639.1	495.1	144.06	4.437		
11,600.0	7,500.0	11,635.2	7,500.0	74.1	75.9	90.00	3,983.4	1,234.5	645.0	497.5	147.50	4.373		
11,700.0	7,500.0	11,735.1	7,500.0	75.8	77.5	90.00	4,083.1	1,239.6	650.9	499.9	150.95	4.312		
11,800.0	7,500.0	11,834.9	7,500.0	77.5	79.2	90.00	4,182.8	1,244.6	656.8	502.4	154.41	4.254		
11,845.2	7,500.0	11,880.0	7,500.0	78.3	80.0	90.00	4,227.9	1,246.9	659.4	503.5	155.97	4.228 SF		

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.52	-0.4	40.0	40.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.52	-0.4	40.0	40.0	39.7	0.30	134.851		
200.0	200.0	200.0	200.0	0.3	0.3	90.52	-0.4	40.0	40.0	39.4	0.65	61.959 CC		
203.9	203.9	203.9	203.9	0.3	0.3	90.52	-0.4	40.0	40.0	39.4	0.66	60.664		
300.0	300.0	299.9	299.9	0.5	0.5	93.01	-2.1	40.0	40.1	39.1	1.00	40.127 ES		
400.0	400.0	399.7	399.5	0.7	0.7	100.36	-7.3	40.0	40.7	39.3	1.37	29.760		
500.0	500.0	498.7	498.3	0.8	0.9	109.12	-14.2	40.9	43.3	41.5	1.73	24.964		
600.0	600.0	597.8	597.1	1.0	1.1	-8.90	-20.9	43.4	47.4	45.3	2.09	22.670		
700.0	700.0	696.9	696.0	1.2	1.3	-4.78	-27.5	47.7	51.7	49.3	2.44	21.197		
800.0	799.9	796.1	794.7	1.4	1.5	-2.41	-33.9	53.7	55.9	53.1	2.78	20.086		
900.0	899.7	895.2	893.3	1.6	1.8	-1.42	-40.3	61.3	59.8	56.6	3.12	19.141		
1,000.0	999.4	994.3	991.8	1.8	2.0	-1.52	-46.5	70.7	63.3	59.8	3.46	18.279		
1,100.0	1,098.9	1,093.3	1,090.0	2.0	2.3	-2.54	-52.5	81.8	66.4	62.6	3.80	17.470		
1,200.0	1,198.4	1,192.3	1,187.9	2.2	2.6	-4.33	-58.4	94.6	70.1	66.0	4.15	16.915		
1,300.0	1,297.8	1,291.0	1,285.5	2.5	2.9	-6.64	-64.2	109.0	75.3	70.8	4.49	16.770		
1,400.0	1,397.3	1,389.6	1,382.5	2.7	3.2	-9.24	-69.8	125.0	82.1	77.3	4.84	16.961		
1,500.0	1,496.7	1,487.8	1,479.0	2.9	3.5	-11.93	-75.2	142.7	90.6	85.4	5.20	17.431		
1,600.0	1,596.1	1,585.7	1,574.9	3.2	3.9	-14.55	-80.5	161.9	100.8	95.3	5.56	18.134		
1,700.0	1,695.6	1,684.6	1,671.4	3.4	4.3	-16.95	-85.7	182.5	112.3	106.4	5.94	18.920		
1,800.0	1,795.0	1,783.8	1,768.3	3.7	4.7	-18.91	-91.0	203.3	124.0	117.7	6.32	19.622		
1,900.0	1,894.5	1,883.1	1,865.2	3.9	5.0	-20.54	-96.2	224.0	135.8	129.1	6.71	20.250		
2,000.0	1,993.9	1,982.3	1,962.1	4.2	5.4	-21.90	-101.5	244.7	147.7	140.6	7.10	20.814		
2,100.0	2,093.4	2,081.5	2,059.0	4.4	5.8	-23.06	-106.7	265.5	159.7	152.2	7.49	21.322		
2,200.0	2,192.8	2,180.7	2,155.9	4.6	6.2	-24.06	-112.0	286.2	171.8	163.9	7.89	21.780		
2,300.0	2,292.3	2,280.0	2,252.8	4.9	6.7	-24.92	-117.2	306.9	183.8	175.6	8.28	22.196		
2,400.0	2,391.7	2,379.2	2,349.7	5.1	7.1	-25.68	-122.5	327.7	196.0	187.3	8.68	22.573		
2,500.0	2,491.2	2,478.4	2,446.6	5.4	7.5	-26.36	-127.7	348.4	208.1	199.0	9.08	22.918		
2,600.0	2,590.6	2,577.7	2,543.5	5.6	7.9	-26.95	-133.0	369.1	220.3	210.8	9.48	23.233		
2,700.0	2,690.1	2,676.9	2,640.4	5.9	8.3	-27.49	-138.2	389.9	232.5	222.6	9.88	23.523		
2,800.0	2,789.5	2,776.1	2,737.3	6.1	8.7	-27.97	-143.5	410.6	244.7	234.4	10.28	23.790		
2,900.0	2,889.0	2,875.4	2,834.2	6.4	9.1	-28.40	-148.7	431.3	256.9	246.2	10.69	24.036		
3,000.0	2,988.4	2,974.6	2,931.1	6.6	9.5	-28.80	-153.9	452.0	269.1	258.0	11.09	24.264		
3,100.0	3,087.9	3,073.8	3,028.0	6.9	9.9	-29.16	-159.2	472.8	281.4	269.9	11.50	24.476		
3,200.0	3,187.3	3,173.1	3,124.9	7.2	10.3	-29.49	-164.4	493.5	293.6	281.7	11.90	24.673		
3,300.0	3,286.8	3,272.3	3,221.8	7.4	10.8	-29.80	-169.7	514.2	305.9	293.6	12.31	24.857		
3,400.0	3,386.2	3,371.5	3,318.7	7.7	11.2	-30.08	-174.9	535.0	318.2	305.5	12.71	25.028		
3,500.0	3,485.7	3,470.8	3,415.6	7.9	11.6	-30.34	-180.2	555.7	330.5	317.4	13.12	25.189		
3,600.0	3,585.1	3,570.0	3,512.5	8.2	12.0	-30.58	-185.4	576.4	342.8	329.2	13.53	25.340		
3,700.0	3,684.6	3,669.2	3,609.4	8.4	12.4	-30.81	-190.7	597.2	355.1	341.1	13.93	25.482		
3,800.0	3,784.0	3,768.5	3,706.3	8.7	12.8	-31.02	-195.9	617.9	367.4	353.0	14.34	25.616		
3,900.0	3,883.5	3,867.7	3,803.2	8.9	13.2	-31.21	-201.2	638.6	379.7	364.9	14.75	25.742		
4,000.0	3,982.9	3,966.9	3,900.1	9.2	13.7	-31.40	-206.4	659.4	392.0	376.8	15.16	25.862		
4,100.0	4,082.4	4,066.2	3,997.0	9.4	14.1	-31.57	-211.7	680.1	404.3	388.7	15.57	25.974		
4,200.0	4,181.8	4,165.4	4,093.9	9.7	14.5	-31.73	-216.9	700.8	416.6	400.6	15.97	26.081		
4,300.0	4,281.3	4,264.6	4,190.8	9.9	14.9	-31.89	-222.2	721.5	428.9	412.5	16.38	26.183		
4,400.0	4,380.7	4,363.8	4,287.7	10.2	15.3	-32.03	-227.4	742.3	441.3	424.5	16.79	26.279		
4,500.0	4,480.2	4,463.1	4,384.6	10.4	15.7	-32.17	-232.6	763.0	453.6	436.4	17.20	26.371		
4,600.0	4,579.6	4,562.3	4,481.5	10.7	16.2	-32.30	-237.9	783.7	465.9	448.3	17.61	26.458		
4,700.0	4,679.1	4,661.5	4,578.4	10.9	16.6	-32.42	-243.1	804.5	478.2	460.2	18.02	26.541		
4,800.0	4,778.5	4,760.8	4,675.3	11.2	17.0	-32.54	-248.4	825.2	490.6	472.1	18.43	26.621		
4,900.0	4,878.0	4,860.0	4,772.2	11.4	17.4	-32.65	-253.6	845.9	502.9	484.1	18.84	26.697		
5,000.0	4,977.4	4,959.2	4,869.1	11.7	17.8	-32.75	-258.9	866.7	515.2	496.0	19.25	26.769		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,058.5	4,966.0	11.9	18.2	-32.85	-264.1	887.4	527.6	507.9	19.66	26.839		
5,200.0	5,176.3	5,157.7	5,062.9	12.2	18.7	-32.95	-269.4	908.1	539.9	519.8	20.07	26.905		
5,300.0	5,275.8	5,256.9	5,159.8	12.4	19.1	-33.04	-274.6	928.9	552.3	531.8	20.48	26.969		
5,400.0	5,375.2	5,356.2	5,256.7	12.7	19.5	-33.13	-279.9	949.6	564.6	543.7	20.89	27.031		
5,500.0	5,474.7	5,455.4	5,353.6	12.9	19.9	-33.21	-285.1	970.3	576.9	555.6	21.30	27.089		
5,600.0	5,574.1	5,554.6	5,450.5	13.2	20.3	-33.30	-290.4	991.1	589.3	567.6	21.71	27.146		
5,700.0	5,673.6	5,653.9	5,547.4	13.5	20.7	-33.37	-295.6	1,011.8	601.6	579.5	22.12	27.201		
5,800.0	5,773.0	5,753.1	5,644.3	13.7	21.2	-33.45	-300.9	1,032.5	614.0	591.4	22.53	27.253		
5,900.0	5,872.5	5,852.3	5,741.2	14.0	21.6	-33.52	-306.1	1,053.2	626.3	603.4	22.94	27.303		
6,000.0	5,971.9	5,951.6	5,838.1	14.2	22.0	-33.59	-311.3	1,074.0	638.7	615.3	23.35	27.352		
6,100.0	6,071.4	6,050.8	5,935.0	14.5	22.4	-33.65	-316.6	1,094.7	651.0	627.3	23.76	27.399		
6,200.0	6,170.8	6,150.0	6,031.9	14.7	22.8	-33.72	-321.8	1,115.4	663.4	639.2	24.17	27.444		
6,300.0	6,270.3	6,249.3	6,128.8	15.0	23.3	-33.78	-327.1	1,136.2	675.7	651.1	24.58	27.488		
6,400.0	6,369.7	6,348.5	6,225.7	15.2	23.7	-33.84	-332.3	1,156.9	688.1	663.1	24.99	27.531		
6,500.0	6,469.2	6,447.7	6,322.6	15.5	24.1	-33.89	-337.6	1,177.6	700.4	675.0	25.40	27.571		
6,600.0	6,568.6	6,546.9	6,419.5	15.7	24.5	-33.95	-342.8	1,198.4	712.8	687.0	25.81	27.611		
6,700.0	6,668.1	6,646.2	6,516.4	16.0	24.9	-34.00	-348.1	1,219.1	725.1	698.9	26.23	27.649		
6,800.0	6,767.5	6,745.4	6,613.3	16.2	25.3	-17.40	-353.3	1,239.8	737.5	710.9	26.62	27.700		
6,900.0	6,867.0	6,844.1	6,709.7	16.4	25.8	51.48	-358.5	1,260.4	749.8	723.0	26.73	28.046		
7,000.0	6,964.8	6,942.6	6,805.9	16.5	26.2	70.63	-362.3	1,281.0	762.3	735.7	26.52	28.742		
7,100.0	7,059.3	7,045.4	6,906.0	16.5	26.5	77.82	-354.0	1,302.4	774.9	748.7	26.21	29.567		
7,200.0	7,148.4	7,152.1	7,007.6	16.5	26.8	81.69	-329.9	1,324.0	787.3	761.4	25.93	30.367		
7,300.0	7,230.4	7,263.2	7,108.5	16.4	27.1	84.22	-288.8	1,345.4	799.3	773.5	25.78	31.003		
7,400.0	7,303.8	7,378.8	7,205.5	16.4	27.3	86.05	-229.6	1,366.0	810.3	784.4	25.85	31.350		
7,500.0	7,367.2	7,498.9	7,295.1	16.5	27.5	87.43	-152.0	1,384.8	820.0	793.8	26.17	31.335		
7,600.0	7,419.2	7,623.3	7,373.2	16.7	27.8	88.48	-56.8	1,401.2	828.0	801.2	26.79	30.906		
7,700.0	7,459.0	7,751.3	7,435.5	17.1	28.1	89.25	54.1	1,414.1	833.9	806.2	27.65	30.156		
7,800.0	7,485.6	7,882.1	7,478.2	17.6	28.5	89.75	177.1	1,422.8	837.4	808.6	28.78	29.092		
7,900.0	7,498.6	8,014.2	7,498.5	18.2	29.0	89.98	307.5	1,426.7	838.3	808.2	30.13	27.821		
8,000.0	7,500.0	8,125.7	7,500.0	19.0	29.5	90.00	418.9	1,426.7	837.2	805.3	31.89	26.255		
8,100.0	7,500.0	8,225.7	7,500.0	19.9	30.1	90.00	518.9	1,426.3	836.0	802.0	33.99	24.597		
8,200.0	7,500.0	8,325.7	7,500.0	20.9	30.7	90.00	618.9	1,426.0	834.8	798.5	36.31	22.992		
8,300.0	7,500.0	8,425.7	7,500.0	22.0	31.5	90.00	718.9	1,425.6	833.6	794.8	38.80	21.481		
8,400.0	7,500.0	8,525.7	7,500.0	23.2	32.3	90.00	818.9	1,425.3	832.3	790.9	41.45	20.081		
8,500.0	7,500.0	8,625.7	7,500.0	24.4	33.2	90.00	918.9	1,424.9	831.1	786.9	44.21	18.798		
8,600.0	7,500.0	8,725.7	7,500.0	25.7	34.2	90.00	1,018.9	1,424.6	829.9	782.8	47.08	17.628		
8,700.0	7,500.0	8,825.7	7,500.0	27.1	35.2	90.00	1,118.9	1,424.2	828.7	778.7	50.02	16.565		
8,800.0	7,500.0	8,925.7	7,500.0	28.5	36.3	90.00	1,218.8	1,423.9	827.5	774.4	53.04	15.601		
8,900.0	7,500.0	9,025.7	7,500.0	29.9	37.4	90.00	1,318.8	1,423.5	826.2	770.1	56.11	14.725		
9,000.0	7,500.0	9,125.6	7,500.0	31.4	38.6	90.00	1,418.8	1,423.2	825.0	765.8	59.23	13.929		
9,100.0	7,500.0	9,225.6	7,500.0	32.9	39.8	90.00	1,518.8	1,422.8	823.8	761.4	62.39	13.203		
9,200.0	7,500.0	9,325.6	7,500.0	34.4	41.0	90.00	1,618.8	1,422.5	822.6	757.0	65.59	12.541		
9,300.0	7,500.0	9,425.6	7,500.0	36.0	42.3	90.00	1,718.8	1,422.1	821.3	752.5	68.82	11.935		
9,400.0	7,500.0	9,525.6	7,500.0	37.5	43.7	90.00	1,818.8	1,421.8	820.1	748.1	72.07	11.379		
9,500.0	7,500.0	9,625.6	7,500.0	39.1	45.0	90.00	1,918.8	1,421.4	818.9	743.6	75.35	10.868		
9,600.0	7,500.0	9,725.6	7,500.0	40.7	46.4	90.00	2,018.8	1,421.1	817.7	739.0	78.64	10.397		
9,700.0	7,500.0	9,825.6	7,500.0	42.3	47.8	90.00	2,118.8	1,420.7	816.5	734.5	81.96	9.962		
9,800.0	7,500.0	9,925.6	7,500.0	43.9	49.2	90.00	2,218.8	1,420.4	815.3	730.0	85.29	9.559		
9,865.2	7,500.0	9,990.8	7,500.0	45.0	50.2	90.00	2,283.9	1,420.1	814.9	727.5	87.47	9.317		
9,900.0	7,500.0	10,025.6	7,500.0	45.6	50.7	90.00	2,318.8	1,420.0	815.2	726.5	88.63	9.197		
10,000.0	7,500.0	10,125.6	7,500.0	47.2	52.2	90.00	2,418.8	1,419.7	815.7	723.7	91.99	8.867		
10,100.0	7,500.0	10,225.6	7,500.0	48.8	53.6	90.00	2,518.8	1,419.3	816.2	720.8	95.35	8.559		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4U-32H-O268 - OH - PLAN #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,200.0	7,500.0	10,325.6	7,500.0	50.5	55.2	90.00	2,618.8	1,419.0	816.7	717.9	98.73	8.272	
10,300.0	7,500.0	10,425.6	7,500.0	52.1	56.7	90.00	2,718.8	1,418.6	817.2	715.1	102.11	8.003	
10,400.0	7,500.0	10,525.6	7,500.0	53.8	58.2	90.00	2,818.8	1,418.3	817.7	712.2	105.51	7.750	
10,500.0	7,500.0	10,625.6	7,500.0	55.5	59.7	90.00	2,918.8	1,417.9	818.2	709.3	108.91	7.513	
10,600.0	7,500.0	10,725.6	7,500.0	57.1	61.3	90.00	3,018.8	1,417.6	818.7	706.4	112.32	7.289	
10,700.0	7,500.0	10,825.6	7,500.0	58.8	62.9	90.00	3,118.7	1,417.2	819.2	703.5	115.73	7.079	
10,800.0	7,500.0	10,925.6	7,500.0	60.5	64.4	90.00	3,218.7	1,416.9	819.7	700.6	119.15	6.880	
10,900.0	7,500.0	11,025.6	7,500.0	62.2	66.0	90.00	3,318.7	1,416.5	820.2	697.6	122.57	6.692	
11,000.0	7,500.0	11,125.6	7,500.0	63.9	67.6	90.00	3,418.7	1,416.2	820.7	694.7	126.00	6.514	
11,100.0	7,500.0	11,225.6	7,500.0	65.6	69.2	90.00	3,518.7	1,415.8	821.2	691.8	129.43	6.345	
11,200.0	7,500.0	11,325.6	7,500.0	67.3	70.8	90.00	3,618.7	1,415.5	821.7	688.8	132.87	6.184	
11,300.0	7,500.0	11,425.6	7,500.0	69.0	72.4	90.00	3,718.7	1,415.1	822.2	685.9	136.31	6.032	
11,400.0	7,500.0	11,525.6	7,500.0	70.7	74.1	90.00	3,818.7	1,414.8	822.7	683.0	139.75	5.887	
11,500.0	7,500.0	11,625.6	7,500.0	72.4	75.7	90.00	3,918.7	1,414.4	823.2	680.0	143.20	5.749	
11,600.0	7,500.0	11,725.6	7,500.0	74.1	77.3	90.00	4,018.7	1,414.1	823.7	677.1	146.65	5.617	
11,700.0	7,500.0	11,825.6	7,500.0	75.8	79.0	90.00	4,118.7	1,413.7	824.2	674.1	150.10	5.491	
11,800.0	7,500.0	11,925.6	7,500.0	77.5	80.6	90.00	4,218.7	1,413.4	824.7	671.2	153.56	5.371	
11,845.2	7,500.0	11,961.1	7,500.0	78.3	81.2	90.00	4,254.3	1,413.3	825.0	669.7	155.34	5,311 SF	

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.43	-0.4	50.1	50.1					
100.0	100.0	100.0	100.0	0.1	0.1	90.43	-0.4	50.1	50.1	49.8	0.30	168.798		
200.0	200.0	200.0	200.0	0.3	0.3	90.43	-0.4	50.1	50.1	49.4	0.65	77.556		
207.4	207.4	207.4	207.4	0.3	0.3	90.43	-0.4	50.1	50.1	49.4	0.67	74.561	CC	
300.0	300.0	300.0	300.0	0.5	0.5	90.93	-0.8	50.1	50.1	49.1	1.00	50.338		
400.0	400.0	399.8	399.8	0.7	0.7	94.90	-4.3	50.1	50.3	48.9	1.35	37.181	ES	
500.0	500.0	498.8	498.6	0.8	0.9	100.52	-9.5	50.9	51.8	50.1	1.71	30.285		
600.0	600.0	597.8	597.4	1.0	1.1	-19.47	-14.6	53.5	54.7	52.6	2.07	26.444		
700.0	700.0	696.8	696.2	1.2	1.3	-16.53	-19.7	57.8	57.8	55.4	2.42	23.875		
800.0	799.9	795.8	794.9	1.4	1.5	-14.88	-24.7	63.7	61.0	58.2	2.77	22.006		
900.0	899.7	894.7	893.4	1.6	1.7	-14.33	-29.8	71.4	64.1	61.0	3.12	20.554		
1,000.0	999.4	993.6	991.7	1.8	1.9	-14.72	-34.7	80.8	67.1	63.7	3.47	19.367		
1,100.0	1,098.9	1,092.4	1,089.8	2.0	2.2	-15.94	-39.7	91.9	70.1	66.3	3.82	18.366		
1,200.0	1,198.4	1,191.2	1,187.6	2.2	2.5	-17.68	-44.5	104.6	73.9	69.7	4.17	17.708		
1,300.0	1,297.8	1,289.7	1,284.9	2.5	2.7	-19.60	-49.4	119.0	79.4	74.9	4.53	17.515		
1,400.0	1,397.3	1,388.0	1,381.8	2.7	3.1	-21.54	-54.1	135.0	86.7	81.8	4.90	17.687		
1,500.0	1,496.7	1,486.1	1,478.1	2.9	3.4	-23.40	-58.9	152.7	95.7	90.4	5.27	18.151		
1,600.0	1,596.1	1,583.8	1,573.8	3.2	3.8	-25.10	-63.5	171.9	106.4	100.8	5.65	18.851		
1,700.0	1,695.6	1,681.0	1,668.7	3.4	4.2	-26.62	-68.1	192.7	118.9	112.9	6.02	19.743		
1,800.0	1,795.0	1,778.8	1,763.8	3.7	4.6	-27.94	-72.7	215.0	133.0	126.6	6.41	20.744		
1,900.0	1,894.5	1,877.8	1,860.0	3.9	5.0	-29.04	-77.3	237.9	147.4	140.6	6.81	21.642		
2,000.0	1,993.9	1,976.7	1,956.1	4.2	5.4	-29.94	-81.9	260.7	161.9	154.7	7.21	22.440		
2,100.0	2,093.4	2,075.6	2,052.3	4.4	5.8	-30.69	-86.5	283.6	176.3	168.7	7.62	23.153		
2,200.0	2,192.8	2,174.5	2,148.4	4.6	6.3	-31.33	-91.1	306.4	190.8	182.8	8.02	23.794		
2,300.0	2,292.3	2,273.5	2,244.5	4.9	6.7	-31.88	-95.7	329.2	205.4	196.9	8.43	24.371		
2,400.0	2,391.7	2,372.4	2,340.7	5.1	7.2	-32.35	-100.3	352.1	219.9	211.1	8.83	24.894		
2,500.0	2,491.2	2,471.3	2,436.8	5.4	7.6	-32.77	-104.9	374.9	234.5	225.2	9.24	25.370		
2,600.0	2,590.6	2,570.2	2,532.9	5.6	8.0	-33.14	-109.5	397.8	249.0	239.4	9.65	25.805		
2,700.0	2,690.1	2,669.1	2,629.1	5.9	8.5	-33.46	-114.1	420.6	263.6	253.5	10.06	26.204		
2,800.0	2,789.5	2,768.1	2,725.2	6.1	8.9	-33.76	-118.7	443.5	278.2	267.7	10.47	26.570		
2,900.0	2,889.0	2,867.0	2,821.3	6.4	9.4	-34.02	-123.3	466.3	292.8	281.9	10.88	26.908		
3,000.0	2,988.4	2,965.9	2,917.5	6.6	9.8	-34.26	-127.9	489.2	307.4	296.1	11.29	27.221		
3,100.0	3,087.9	3,064.8	3,013.6	6.9	10.3	-34.48	-132.5	512.0	322.0	310.3	11.70	27.512		
3,200.0	3,187.3	3,163.8	3,109.8	7.2	10.7	-34.67	-137.1	534.9	336.6	324.4	12.11	27.782		
3,300.0	3,286.8	3,262.7	3,205.9	7.4	11.1	-34.86	-141.7	557.7	351.2	338.6	12.53	28.033		
3,400.0	3,386.2	3,361.6	3,302.0	7.7	11.6	-35.02	-146.3	580.6	365.8	352.8	12.94	28.268		
3,500.0	3,485.7	3,460.5	3,398.2	7.9	12.0	-35.18	-150.9	603.4	380.4	367.0	13.35	28.489		
3,600.0	3,585.1	3,559.4	3,494.3	8.2	12.5	-35.32	-155.5	626.3	395.0	381.2	13.76	28.695		
3,700.0	3,684.6	3,658.4	3,590.4	8.4	12.9	-35.45	-160.1	649.1	409.6	395.4	14.18	28.890		
3,800.0	3,784.0	3,757.3	3,686.6	8.7	13.4	-35.58	-164.7	672.0	424.2	409.6	14.59	29.073		
3,900.0	3,883.5	3,856.2	3,782.7	8.9	13.8	-35.69	-169.3	694.8	438.8	423.8	15.01	29.245		
4,000.0	3,982.9	3,955.1	3,878.9	9.2	14.3	-35.80	-173.9	717.7	453.5	438.0	15.42	29.409		
4,100.0	4,082.4	4,054.1	3,975.0	9.4	14.7	-35.90	-178.6	740.5	468.1	452.3	15.83	29.563		
4,200.0	4,181.8	4,153.0	4,071.1	9.7	15.2	-36.00	-183.2	763.4	482.7	466.5	16.25	29.709		
4,300.0	4,281.3	4,251.9	4,167.3	9.9	15.6	-36.09	-187.8	786.2	497.3	480.7	16.66	29.848		
4,400.0	4,380.7	4,350.8	4,263.4	10.2	16.1	-36.17	-192.4	809.1	512.0	494.9	17.08	29.980		
4,500.0	4,480.2	4,449.7	4,359.5	10.4	16.5	-36.25	-197.0	831.9	526.6	509.1	17.49	30.105		
4,600.0	4,579.6	4,548.7	4,455.7	10.7	17.0	-36.33	-201.6	854.8	541.2	523.3	17.91	30.225		
4,700.0	4,679.1	4,647.6	4,551.8	10.9	17.4	-36.40	-206.2	877.6	555.8	537.5	18.32	30.339		
4,800.0	4,778.5	4,746.5	4,647.9	11.2	17.9	-36.47	-210.8	900.4	570.5	551.7	18.74	30.448		
4,900.0	4,878.0	4,845.4	4,744.1	11.4	18.3	-36.53	-215.4	923.3	585.1	565.9	19.15	30.552		
5,000.0	4,977.4	4,944.4	4,840.2	11.7	18.8	-36.59	-220.0	946.1	599.7	580.2	19.57	30.651		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,076.9	5,043.3	4,936.4	11.9	19.2	-36.65	-224.6	969.0	614.4	594.4	19.98	30.747		
5,200.0	5,176.3	5,142.2	5,032.5	12.2	19.7	-36.70	-229.2	991.8	629.0	608.6	20.40	30.838		
5,300.0	5,275.8	5,241.1	5,128.6	12.4	20.1	-36.76	-233.8	1,014.7	643.6	622.8	20.81	30.925		
5,400.0	5,375.2	5,340.0	5,224.8	12.7	20.6	-36.81	-238.4	1,037.5	658.3	637.0	21.23	31.009		
5,500.0	5,474.7	5,439.0	5,320.9	12.9	21.0	-36.86	-243.0	1,060.4	672.9	651.3	21.64	31.090		
5,600.0	5,574.1	5,537.9	5,417.0	13.2	21.5	-36.90	-247.6	1,083.2	687.5	665.5	22.06	31.168		
5,700.0	5,673.6	5,636.8	5,513.2	13.5	21.9	-36.95	-252.2	1,106.1	702.2	679.7	22.47	31.242		
5,800.0	5,773.0	5,735.7	5,609.3	13.7	22.4	-36.99	-256.8	1,128.9	716.8	693.9	22.89	31.314		
5,900.0	5,872.5	5,834.6	5,705.5	14.0	22.8	-37.03	-261.4	1,151.8	731.4	708.1	23.31	31.384		
6,000.0	5,971.9	5,933.6	5,801.6	14.2	23.3	-37.07	-266.0	1,174.6	746.1	722.3	23.72	31.450		
6,100.0	6,071.4	6,032.5	5,897.7	14.5	23.7	-37.11	-270.6	1,197.5	760.7	736.6	24.14	31.515		
6,200.0	6,170.8	6,131.4	5,993.9	14.7	24.2	-37.15	-275.2	1,220.3	775.3	750.8	24.55	31.577		
6,300.0	6,270.3	6,230.3	6,090.0	15.0	24.6	-37.18	-279.8	1,243.2	790.0	765.0	24.97	31.637		
6,400.0	6,369.7	6,329.3	6,186.1	15.2	25.1	-37.21	-284.5	1,266.0	804.6	779.2	25.39	31.695		
6,500.0	6,469.2	6,428.2	6,282.3	15.5	25.5	-37.25	-289.1	1,288.9	819.3	793.4	25.80	31.752		
6,600.0	6,568.6	6,527.1	6,378.4	15.7	26.0	-37.28	-293.7	1,311.7	833.9	807.7	26.22	31.806		
6,700.0	6,668.1	6,626.0	6,474.6	16.0	26.4	-37.31	-298.3	1,334.6	848.5	821.9	26.63	31.859		
6,800.0	6,767.5	6,724.9	6,570.7	16.2	26.9	-20.73	-302.9	1,357.4	863.1	836.1	27.04	31.924		
6,900.0	6,867.0	6,823.4	6,666.4	16.4	27.3	47.92	-307.5	1,380.2	877.1	850.0	27.16	32.299		
7,000.0	6,964.8	6,919.7	6,760.0	16.5	27.8	66.83	-311.9	1,402.4	890.4	863.5	26.94	33.051		
7,100.0	7,059.3	7,013.3	6,851.0	16.5	28.2	74.06	-311.5	1,424.0	903.8	877.3	26.50	34.100		
7,200.0	7,148.4	7,110.8	6,944.8	16.5	28.5	78.05	-298.3	1,446.3	917.3	891.3	26.08	35.179		
7,300.0	7,230.4	7,213.1	7,040.5	16.4	28.9	80.77	-270.4	1,469.1	930.9	905.1	25.79	36.089		
7,400.0	7,303.8	7,321.1	7,136.2	16.4	29.2	82.88	-226.1	1,491.8	944.0	918.2	25.77	36.634		
7,500.0	7,367.2	7,435.4	7,229.3	16.5	29.5	84.64	-163.7	1,513.9	956.4	930.3	26.08	36.677		
7,600.0	7,419.2	7,556.7	7,316.1	16.7	29.8	86.17	-81.8	1,534.6	967.5	940.8	26.73	36.193		
7,700.0	7,459.0	7,685.3	7,392.1	17.1	30.1	87.51	20.1	1,552.6	976.9	949.2	27.68	35.285		
7,800.0	7,485.6	7,820.8	7,451.6	17.6	30.6	88.64	140.8	1,566.8	983.9	955.0	28.91	34.034		
7,900.0	7,498.6	7,962.4	7,489.1	18.2	31.1	89.54	276.8	1,575.7	988.1	957.8	30.30	32.614		
8,000.0	7,500.0	8,102.2	7,500.0	19.0	31.7	90.00	416.0	1,578.3	988.8	957.0	31.86	31.035		
8,100.0	7,500.0	8,202.2	7,500.0	19.9	32.3	90.00	516.0	1,578.3	988.0	954.0	33.97	29.081		
8,200.0	7,500.0	8,302.2	7,500.0	20.9	32.9	90.00	616.0	1,578.3	987.1	950.8	36.30	27.192		
8,300.0	7,500.0	8,402.2	7,500.0	22.0	33.6	90.00	716.0	1,578.3	986.2	947.4	38.81	25.414		
8,400.0	7,500.0	8,502.2	7,500.0	23.2	34.3	90.00	816.0	1,578.3	985.3	943.9	41.46	23.768		
8,500.0	7,500.0	8,602.2	7,500.0	24.4	35.2	90.00	916.0	1,578.3	984.5	940.2	44.23	22.259		
8,600.0	7,500.0	8,702.2	7,500.0	25.7	36.1	90.00	1,016.0	1,578.3	983.6	936.5	47.10	20.885		
8,700.0	7,500.0	8,802.2	7,500.0	27.1	37.0	90.00	1,116.0	1,578.3	982.7	932.7	50.05	19.636		
8,800.0	7,500.0	8,902.2	7,500.0	28.5	38.1	90.00	1,216.0	1,578.3	981.9	928.8	53.07	18.503		
8,900.0	7,500.0	9,002.2	7,500.0	29.9	39.1	90.00	1,316.0	1,578.3	981.0	924.8	56.14	17.474		
9,000.0	7,500.0	9,102.2	7,500.0	31.4	40.3	90.00	1,416.0	1,578.3	980.1	920.8	59.26	16.538		
9,100.0	7,500.0	9,202.2	7,500.0	32.9	41.4	90.00	1,515.9	1,578.3	979.2	916.8	62.43	15.686		
9,200.0	7,500.0	9,302.2	7,500.0	34.4	42.6	90.00	1,615.9	1,578.3	978.4	912.7	65.63	14.908		
9,300.0	7,500.0	9,402.2	7,500.0	36.0	43.9	90.00	1,715.9	1,578.3	977.5	908.6	68.86	14.196		
9,400.0	7,500.0	9,502.1	7,500.0	37.5	45.2	90.00	1,815.9	1,578.3	976.6	904.5	72.11	13.543		
9,500.0	7,500.0	9,602.1	7,500.0	39.1	46.5	90.00	1,915.9	1,578.3	975.7	900.4	75.39	12.943		
9,600.0	7,500.0	9,702.1	7,500.0	40.7	47.8	90.00	2,015.9	1,578.3	974.9	896.2	78.69	12.389		
9,700.0	7,500.0	9,802.1	7,500.0	42.3	49.2	90.00	2,115.9	1,578.3	974.0	892.0	82.00	11.877		
9,800.0	7,500.0	9,902.1	7,500.0	43.9	50.6	90.00	2,215.9	1,578.3	973.1	887.8	85.33	11.404		
9,841.1	7,500.0	9,943.2	7,500.0	44.6	51.1	90.00	2,257.0	1,578.3	973.0	886.3	86.71	11.222		
9,900.0	7,500.0	10,002.1	7,500.0	45.6	52.0	90.00	2,315.9	1,578.3	973.4	884.7	88.68	10.977		
10,000.0	7,500.0	10,102.1	7,500.0	47.2	53.4	90.00	2,415.9	1,578.3	974.3	882.2	92.04	10.586		
10,100.0	7,500.0	10,202.1	7,500.0	48.8	54.9	90.00	2,515.9	1,578.3	975.1	879.7	95.40	10.221		

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

Anticollision Report

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

Offset Design S32-T2N-R68W (File/Hwy 52) NEW - HWY 4V-32H-O268 - OH - PLAN #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
10,200.0	7,500.0	10,302.1	7,500.0	50.5	56.3	90.00	2,615.9	1,578.3	976.0	877.2	98.78	9.880		
10,300.0	7,500.0	10,402.1	7,500.0	52.1	57.8	90.00	2,715.9	1,578.3	976.8	874.6	102.17	9.561		
10,400.0	7,500.0	10,502.1	7,500.0	53.8	59.3	90.00	2,815.9	1,578.3	977.7	872.1	105.56	9.262		
10,500.0	7,500.0	10,602.1	7,500.0	55.5	60.8	90.00	2,915.9	1,578.3	978.5	869.6	108.96	8.980		
10,600.0	7,500.0	10,702.1	7,500.0	57.1	62.4	90.00	3,015.9	1,578.3	979.4	867.0	112.37	8.716		
10,700.0	7,500.0	10,802.1	7,500.0	58.8	63.9	90.00	3,115.9	1,578.3	980.2	864.4	115.78	8.466		
10,800.0	7,500.0	10,902.1	7,500.0	60.5	65.5	90.00	3,215.9	1,578.3	981.1	861.9	119.20	8.230		
10,900.0	7,500.0	11,002.1	7,500.0	62.2	67.0	90.00	3,315.9	1,578.3	981.9	859.3	122.63	8.007		
11,000.0	7,500.0	11,102.1	7,500.0	63.9	68.6	90.00	3,415.9	1,578.3	982.8	856.7	126.06	7.796		
11,100.0	7,500.0	11,202.1	7,500.0	65.6	70.2	90.00	3,515.9	1,578.3	983.6	854.2	129.49	7.596		
11,200.0	7,500.0	11,302.1	7,500.0	67.3	71.8	90.00	3,615.9	1,578.3	984.5	851.6	132.93	7.406		
11,300.0	7,500.0	11,402.1	7,500.0	69.0	73.3	90.00	3,715.9	1,578.3	985.3	849.0	136.37	7.226		
11,400.0	7,500.0	11,502.1	7,500.0	70.7	74.9	90.00	3,815.9	1,578.3	986.2	846.4	139.81	7.054		
11,500.0	7,500.0	11,602.1	7,500.0	72.4	76.6	90.00	3,915.9	1,578.3	987.1	843.8	143.26	6.890		
11,600.0	7,500.0	11,702.1	7,500.0	74.1	78.2	90.00	4,015.9	1,578.3	987.9	841.2	146.71	6.734		
11,700.0	7,500.0	11,802.1	7,500.0	75.8	79.8	90.00	4,115.9	1,578.3	988.8	838.6	150.16	6.585		
11,800.0	7,500.0	11,902.1	7,500.0	77.5	81.4	90.00	4,215.9	1,578.3	989.6	836.0	153.62	6.442		
11,845.2	7,500.0	11,939.2	7,500.0	78.3	82.0	90.00	4,253.0	1,578.3	990.0	834.7	155.33	6.374 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.32	-0.3	60.2	60.2					
100.0	100.0	100.0	100.0	0.1	0.1	90.32	-0.3	60.2	60.2	59.9	0.30	202.743	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	90.32	-0.3	60.2	60.2	59.5	0.65	93.152		
300.0	300.0	299.0	299.0	0.5	0.5	90.39	-0.4	61.0	61.0	60.0	0.99	61.449		
400.0	400.0	397.9	397.8	0.7	0.7	90.60	-0.7	63.6	63.6	62.3	1.34	47.467		
500.0	500.0	496.6	496.5	0.8	0.9	90.90	-1.1	67.8	67.9	66.2	1.69	40.268		
600.0	600.0	595.3	595.0	1.0	1.1	-33.51	-1.6	73.7	73.2	71.2	2.03	36.017		
700.0	700.0	693.8	693.2	1.2	1.3	-34.08	-2.4	81.3	78.7	76.4	2.38	33.107		
800.0	799.9	792.2	791.2	1.4	1.5	-35.11	-3.2	90.6	84.6	81.8	2.73	31.020		
900.0	899.7	890.5	888.9	1.6	1.7	-36.51	-4.3	101.5	90.7	87.7	3.08	29.469		
1,000.0	999.4	988.7	986.2	1.8	2.0	-38.19	-5.5	114.1	97.3	93.8	3.44	28.279		
1,100.0	1,098.9	1,086.7	1,083.2	2.0	2.3	-40.08	-6.9	128.3	104.2	100.4	3.81	27.334		
1,200.0	1,198.4	1,184.5	1,179.7	2.2	2.6	-41.87	-8.4	144.1	112.2	108.0	4.20	26.750		
1,300.0	1,297.8	1,282.1	1,275.6	2.5	3.0	-43.22	-10.0	161.6	122.0	117.4	4.59	26.596		
1,400.0	1,397.3	1,379.3	1,371.0	2.7	3.3	-44.18	-11.8	180.5	133.5	128.5	4.99	26.774		
1,500.0	1,496.7	1,476.1	1,465.6	2.9	3.7	-44.81	-13.8	201.0	146.6	141.2	5.39	27.213		
1,600.0	1,596.1	1,572.5	1,559.5	3.2	4.1	-45.16	-15.9	223.0	161.3	155.5	5.79	27.862		
1,700.0	1,695.6	1,668.5	1,652.5	3.4	4.6	-45.30	-18.2	246.5	177.7	171.5	6.19	28.685		
1,800.0	1,795.0	1,763.9	1,744.6	3.7	5.0	-45.28	-20.5	271.3	195.5	189.0	6.59	29.655		
1,900.0	1,894.5	1,858.7	1,835.7	3.9	5.5	-45.14	-23.0	297.5	215.0	208.0	6.99	30.748		
2,000.0	1,993.9	1,952.9	1,925.7	4.2	6.0	-44.92	-25.7	325.0	236.0	228.6	7.39	31.953		
2,100.0	2,093.4	2,050.2	2,018.4	4.4	6.6	-44.66	-28.5	354.3	257.9	250.1	7.80	33.068		
2,200.0	2,192.8	2,147.8	2,111.4	4.6	7.1	-44.45	-31.3	383.7	279.8	271.6	8.22	34.061		
2,300.0	2,292.3	2,245.3	2,204.4	4.9	7.7	-44.26	-34.1	413.0	301.7	293.1	8.63	34.957		
2,400.0	2,391.7	2,342.9	2,297.4	5.1	8.2	-44.10	-36.9	442.4	323.7	314.6	9.05	35.768		
2,500.0	2,491.2	2,440.5	2,390.4	5.4	8.8	-43.96	-39.7	471.8	345.6	336.1	9.47	36.506		
2,600.0	2,590.6	2,538.0	2,483.4	5.6	9.3	-43.84	-42.5	501.2	367.5	357.6	9.88	37.181		
2,700.0	2,690.1	2,635.6	2,576.4	5.9	9.9	-43.73	-45.3	530.5	389.4	379.1	10.30	37.800		
2,800.0	2,789.5	2,733.2	2,669.4	6.1	10.4	-43.64	-48.1	559.9	411.4	400.6	10.72	38.370		
2,900.0	2,889.0	2,830.7	2,762.4	6.4	11.0	-43.55	-50.9	589.3	433.3	422.1	11.14	38.896		
3,000.0	2,988.4	2,928.3	2,855.4	6.6	11.6	-43.47	-53.8	618.7	455.2	443.7	11.56	39.383		
3,100.0	3,087.9	3,025.9	2,948.4	6.9	12.1	-43.40	-56.6	648.0	477.1	465.2	11.98	39.836		
3,200.0	3,187.3	3,123.4	3,041.4	7.2	12.7	-43.33	-59.4	677.4	499.1	486.7	12.40	40.257		
3,300.0	3,286.8	3,221.0	3,134.4	7.4	13.2	-43.27	-62.2	706.8	521.0	508.2	12.82	40.650		
3,400.0	3,386.2	3,318.5	3,227.4	7.7	13.8	-43.22	-65.0	736.2	542.9	529.7	13.24	41.018		
3,500.0	3,485.7	3,416.1	3,320.4	7.9	14.3	-43.17	-67.8	765.5	564.9	551.2	13.66	41.363		
3,600.0	3,585.1	3,513.7	3,413.4	8.2	14.9	-43.12	-70.6	794.9	586.8	572.7	14.08	41.687		
3,700.0	3,684.6	3,611.2	3,506.3	8.4	15.5	-43.08	-73.4	824.3	608.7	594.2	14.50	41.992		
3,800.0	3,784.0	3,708.8	3,599.3	8.7	16.0	-43.04	-76.2	853.7	630.6	615.7	14.92	42.280		
3,900.0	3,883.5	3,806.4	3,692.3	8.9	16.6	-43.00	-79.0	883.1	652.6	637.2	15.34	42.552		
4,000.0	3,982.9	3,903.9	3,785.3	9.2	17.1	-42.96	-81.9	912.4	674.5	658.8	15.76	42.808		
4,100.0	4,082.4	4,001.5	3,878.3	9.4	17.7	-42.93	-84.7	941.8	696.4	680.3	16.18	43.052		
4,200.0	4,181.8	4,099.1	3,971.3	9.7	18.3	-42.90	-87.5	971.2	718.4	701.8	16.60	43.282		
4,300.0	4,281.3	4,196.6	4,064.3	9.9	18.8	-42.87	-90.3	1,000.6	740.3	723.3	17.02	43.502		
4,400.0	4,380.7	4,294.2	4,157.3	10.2	19.4	-42.84	-93.1	1,029.9	762.2	744.8	17.44	43.710		
4,500.0	4,480.2	4,391.8	4,250.3	10.4	20.0	-42.82	-95.9	1,059.3	784.2	766.3	17.86	43.909		
4,600.0	4,579.6	4,489.3	4,343.3	10.7	20.5	-42.79	-98.7	1,088.7	806.1	787.8	18.28	44.098		
4,700.0	4,679.1	4,586.9	4,436.3	10.9	21.1	-42.77	-101.5	1,118.1	828.0	809.3	18.70	44.279		
4,800.0	4,778.5	4,684.5	4,529.3	11.2	21.6	-42.75	-104.3	1,147.4	850.0	830.8	19.12	44.451		
4,900.0	4,878.0	4,782.0	4,622.3	11.4	22.2	-42.73	-107.1	1,176.8	871.9	852.4	19.54	44.616		
5,000.0	4,977.4	4,879.6	4,715.3	11.7	22.8	-42.71	-109.9	1,206.2	893.8	873.9	19.96	44.774		
5,100.0	5,076.9	4,977.1	4,808.3	11.9	23.3	-42.69	-112.8	1,235.6	915.8	895.4	20.38	44.926		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well HWY 4Q-32H-O268
Project:	DJ Wattenberg	TVD Reference:	15' KB @ 5003.0ft
Reference Site:	S32-T2N-R68W (File/Hwy 52) NEW	MD Reference:	15' KB @ 5003.0ft
Site Error:	0.0ft	North Reference:	True
Reference Well:	HWY 4Q-32H-O268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	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						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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,176.3	5,074.7	4,901.3	12.2	23.9	-42.67	-115.6	1,264.9	937.7	916.9	20.80	45.071	
5,300.0	5,275.8	5,172.3	4,994.3	12.4	24.5	-42.65	-118.4	1,294.3	959.6	938.4	21.23	45.210	
5,400.0	5,375.2	5,269.8	5,087.3	12.7	25.0	-42.64	-121.2	1,323.7	981.6	959.9	21.65	45.344	
5,500.0	5,474.7	5,367.4	5,180.3	12.9	25.6	-42.62	-124.0	1,353.1	1,003.5	981.4	22.07	45.473	
5,600.0	5,574.1	5,465.0	5,273.3	13.2	26.1	-42.60	-126.8	1,382.4	1,025.4	1,002.9	22.49	45.597	
5,700.0	5,673.6	5,562.5	5,366.2	13.5	26.7	-42.59	-129.6	1,411.8	1,047.4	1,024.5	22.91	45.716	
5,800.0	5,773.0	5,660.1	5,459.2	13.7	27.3	-42.58	-132.4	1,441.2	1,069.3	1,046.0	23.33	45.831	
5,900.0	5,872.5	5,757.7	5,552.2	14.0	27.8	-42.56	-135.2	1,470.6	1,091.2	1,067.5	23.75	45.942	
6,000.0	5,971.9	5,855.2	5,645.2	14.2	28.4	-42.55	-138.0	1,499.9	1,113.2	1,089.0	24.17	46.049	
6,100.0	6,071.4	5,952.8	5,738.2	14.5	29.0	-42.54	-140.9	1,529.3	1,135.1	1,110.5	24.59	46.152	
6,200.0	6,170.8	6,050.4	5,831.2	14.7	29.5	-42.53	-143.7	1,558.7	1,157.0	1,132.0	25.02	46.251	
6,300.0	6,270.3	6,147.9	5,924.2	15.0	30.1	-42.51	-146.5	1,588.1	1,179.0	1,153.5	25.44	46.348	
6,400.0	6,369.7	6,245.5	6,017.2	15.2	30.6	-42.50	-149.3	1,617.4	1,200.9	1,175.0	25.86	46.441	
6,500.0	6,469.2	6,343.0	6,110.2	15.5	31.2	-42.49	-152.1	1,646.8	1,222.8	1,196.6	26.28	46.531	
6,600.0	6,568.6	6,440.6	6,203.2	15.7	31.8	-42.48	-154.9	1,676.2	1,244.8	1,218.1	26.70	46.618	
6,700.0	6,668.1	6,538.2	6,296.2	16.0	32.3	-42.47	-157.7	1,705.6	1,266.7	1,239.6	27.12	46.703	
6,800.0	6,767.5	6,635.8	6,389.2	16.2	32.9	-26.00	-160.5	1,734.9	1,288.6	1,261.0	27.53	46.803	
6,900.0	6,867.0	6,733.0	6,481.9	16.4	33.5	41.96	-163.3	1,764.2	1,308.9	1,281.3	27.68	47.293	
7,000.0	6,964.8	6,828.4	6,572.9	16.5	34.0	60.03	-166.1	1,793.0	1,327.1	1,299.6	27.51	48.248	
7,100.0	7,059.3	6,920.1	6,660.2	16.5	34.5	66.59	-168.7	1,820.6	1,343.4	1,316.4	27.08	49.616	
7,200.0	7,148.4	7,004.9	6,741.1	16.5	35.0	70.24	-170.8	1,846.1	1,358.6	1,332.1	26.48	51.299	
7,300.0	7,230.4	7,087.1	6,819.4	16.4	35.5	72.69	-165.8	1,870.5	1,373.5	1,347.6	25.92	52.990	
7,400.0	7,303.8	7,175.0	6,901.9	16.4	35.9	74.64	-150.1	1,896.0	1,388.1	1,362.5	25.61	54.211	
7,500.0	7,367.2	7,270.1	6,988.6	16.5	36.4	76.41	-121.3	1,922.3	1,402.2	1,376.6	25.69	54.584	
7,600.0	7,419.2	7,375.0	7,079.2	16.7	36.9	78.18	-76.1	1,949.2	1,415.7	1,389.4	26.26	53.903	
7,700.0	7,459.0	7,492.5	7,172.1	17.1	37.4	80.03	-9.6	1,976.2	1,428.1	1,400.8	27.31	52.285	
7,800.0	7,485.6	7,626.6	7,264.1	17.6	37.9	82.05	84.4	2,001.8	1,438.7	1,410.0	28.75	50.051	
7,900.0	7,498.6	7,781.6	7,347.5	18.2	38.5	84.21	212.7	2,023.6	1,446.8	1,416.4	30.36	47.651	
8,000.0	7,500.0	7,961.6	7,409.1	19.0	39.2	86.41	380.8	2,037.1	1,451.0	1,419.0	31.95	45.414	
8,100.0	7,500.0	8,148.9	7,429.0	19.9	40.0	87.19	566.5	2,036.9	1,449.2	1,415.7	33.54	43.209	
8,200.0	7,500.0	8,248.8	7,429.0	20.9	40.4	87.18	666.3	2,033.4	1,444.9	1,409.0	35.83	40.326	
8,300.0	7,500.0	8,348.7	7,429.0	22.0	41.0	87.17	766.2	2,029.9	1,440.5	1,402.2	38.29	37.616	
8,400.0	7,500.0	8,448.6	7,429.0	23.2	41.6	87.16	866.0	2,026.4	1,436.2	1,395.2	40.91	35.104	
8,500.0	7,500.0	8,548.5	7,429.0	24.4	42.3	87.15	965.9	2,023.0	1,431.8	1,388.1	43.65	32.800	
8,600.0	7,500.0	8,648.4	7,429.0	25.7	43.0	87.15	1,065.7	2,019.5	1,427.4	1,380.9	46.50	30.701	
8,700.0	7,500.0	8,748.3	7,429.0	27.1	43.8	87.14	1,165.6	2,016.0	1,423.1	1,373.7	49.42	28.794	
8,800.0	7,500.0	8,848.2	7,429.0	28.5	44.6	87.13	1,265.4	2,012.5	1,418.7	1,366.3	52.42	27.064	
8,900.0	7,500.0	8,948.1	7,429.0	29.9	45.5	87.12	1,365.3	2,009.0	1,414.4	1,358.9	55.48	25.494	
9,000.0	7,500.0	9,048.0	7,429.0	31.4	46.5	87.11	1,465.1	2,005.5	1,410.0	1,351.4	58.59	24.068	
9,100.0	7,500.0	9,147.9	7,429.0	32.9	47.4	87.10	1,564.9	2,002.0	1,405.7	1,343.9	61.73	22.770	
9,200.0	7,500.0	9,247.8	7,429.0	34.4	48.5	87.09	1,664.8	1,998.6	1,401.3	1,336.4	64.92	21.585	
9,300.0	7,500.0	9,347.7	7,429.0	36.0	49.6	87.08	1,764.6	1,995.1	1,396.9	1,328.8	68.14	20.502	
9,400.0	7,500.0	9,447.6	7,429.0	37.5	50.7	87.07	1,864.5	1,991.6	1,392.6	1,321.2	71.38	19.510	
9,500.0	7,500.0	9,547.5	7,429.0	39.1	51.8	87.07	1,964.3	1,988.1	1,388.2	1,313.6	74.64	18.598	
9,600.0	7,500.0	9,647.4	7,429.0	40.7	53.0	87.06	2,064.2	1,984.6	1,383.9	1,305.9	77.93	17.758	
9,700.0	7,500.0	9,747.4	7,429.0	42.3	54.2	87.05	2,164.0	1,981.1	1,379.5	1,298.3	81.24	16.982	
9,800.0	7,500.0	9,847.3	7,429.0	43.9	55.5	87.04	2,263.9	1,977.6	1,375.2	1,290.6	84.56	16.264	
9,900.0	7,500.0	9,947.2	7,429.0	45.6	56.7	87.03	2,363.7	1,974.1	1,372.0	1,284.1	87.89	15.610	
10,000.0	7,500.0	10,047.2	7,429.0	47.2	58.0	87.03	2,463.6	1,970.7	1,369.3	1,278.1	91.24	15.008	
10,100.0	7,500.0	10,147.1	7,429.0	48.8	59.4	87.02	2,563.5	1,967.2	1,366.7	1,272.1	94.60	14.447	
10,200.0	7,500.0	10,247.1	7,429.0	50.5	60.7	87.02	2,663.5	1,963.7	1,364.1	1,266.1	97.97	13.923	
10,300.0	7,500.0	10,347.1	7,429.0	52.1	62.1	87.01	2,763.4	1,960.2	1,361.4	1,260.1	101.35	13.433	

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

Anticollision Report

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

Offset Design													S32-T2N-R68W (File/Hwy 52) NEW - HWY 4W-32H-O268 - OH - PLAN #1		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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				
10,400.0	7,500.0	10,447.0	7,429.0	53.8	63.5	87.00	2,863.3	1,956.7	1,358.8	1,254.1	104.74	12.973					
10,500.0	7,500.0	10,547.0	7,429.0	55.5	64.9	87.00	2,963.2	1,953.2	1,356.2	1,248.0	108.13	12.542					
10,600.0	7,500.0	10,647.0	7,429.0	57.1	66.3	86.99	3,063.1	1,949.7	1,353.5	1,242.0	111.53	12.136					
10,700.0	7,500.0	10,746.9	7,429.0	58.8	67.7	86.99	3,163.0	1,946.2	1,350.9	1,235.9	114.94	11.753					
10,800.0	7,500.0	10,846.9	7,429.0	60.5	69.2	86.98	3,262.9	1,942.7	1,348.3	1,229.9	118.35	11.392					
10,900.0	7,500.0	10,946.9	7,429.0	62.2	70.6	86.97	3,362.8	1,939.3	1,345.6	1,223.9	121.77	11.051					
11,000.0	7,500.0	11,046.8	7,429.0	63.9	72.1	86.97	3,462.7	1,935.8	1,343.0	1,217.8	125.19	10.728					
11,100.0	7,500.0	11,146.8	7,429.0	65.6	73.6	86.96	3,562.6	1,932.3	1,340.4	1,211.7	128.62	10.421					
11,200.0	7,500.0	11,246.8	7,429.0	67.3	75.1	86.96	3,662.5	1,928.8	1,337.7	1,205.7	132.05	10.131					
11,300.0	7,500.0	11,346.7	7,429.0	69.0	76.6	86.95	3,762.4	1,925.3	1,335.1	1,199.6	135.48	9.854					
11,400.0	7,500.0	11,446.7	7,429.0	70.7	78.2	86.94	3,862.3	1,921.8	1,332.5	1,193.5	138.92	9.592					
11,500.0	7,500.0	11,546.6	7,429.0	72.4	79.7	86.94	3,962.2	1,918.3	1,329.8	1,187.5	142.36	9.341					
11,600.0	7,500.0	11,646.6	7,429.0	74.1	81.2	86.93	4,062.1	1,914.8	1,327.2	1,181.4	145.80	9.103					
11,700.0	7,500.0	11,746.6	7,429.0	75.8	82.8	86.93	4,162.0	1,911.3	1,324.6	1,175.3	149.25	8.875					
11,800.0	7,500.0	11,834.9	7,429.0	77.5	84.2	86.92	4,250.3	1,908.3	1,322.0	1,169.1	152.90	8.646					
11,823.2	7,500.0	11,834.9	7,429.0	77.9	84.2	86.92	4,250.3	1,908.3	1,321.8	1,167.7	154.07	8.579					
11,845.2	7,500.0	11,834.9	7,429.0	78.3	84.2	86.92	4,250.3	1,908.3	1,322.0	1,166.8	155.15	8.520 SF					

Anticollision Report

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

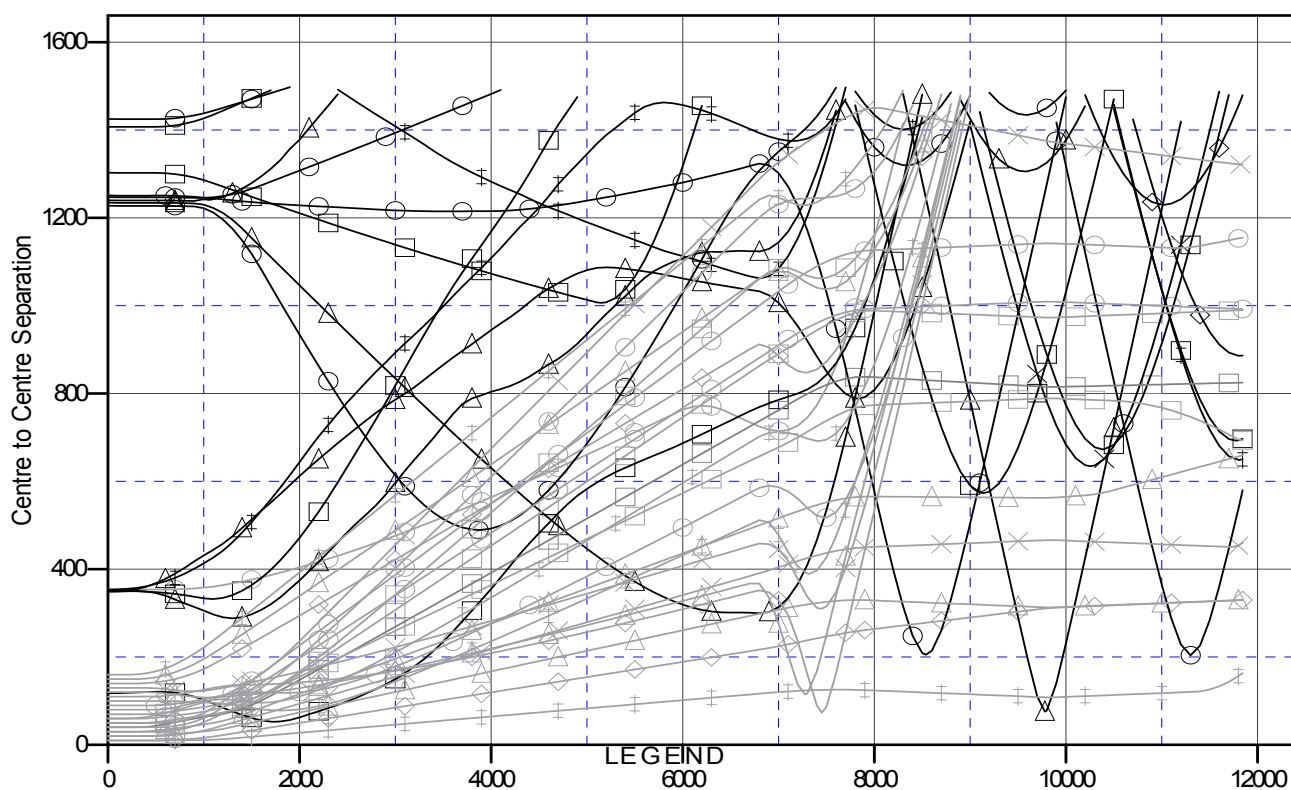
Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°

Ladder Plot



1-6-32, ENCANA WELL, SURVEYS V0	ANDERSON 6-4-32, ENCANA WELL, SURVEYS V0	HWY 4A-32H-O268, OH, PLAN#1 V0
XAS TEA WELL, NOSURVEYS V0	NELSON 3, TEXAS TEA WELL, NOSURVEYS V0	HWY 4L-32H-O268, OH, PLAN#1 V0
1-32, ENCANA WELL, NOSURVEYS V0	CANINO 1-X, ENCANA WELL, NOSURVEYS V0	HWY 4V-32H-O268, OH, PLAN#1 V0
1-32, ENCANA WELL, PLAN ONLY V0	RAY NELSON 4-8-32, ENCANA WELL, PLAN ONLY V0	HWY 4W-32H-O268, OH, PLAN#1 V0
2-32, ENCANA WELL, SURVEYS V0	BROWN 41-5, ENCANA WELL, ENCANA WELL V0	HWY 4S-32H-O268, OH, PLAN#1 V0
3-4-32, ENCANA WELL, PLAN ONLY V0	RAY NELSON 33-32, ENCANA WELL, ENCANA WELL V0	HWY 4C-32H-O268, OH, PLAN#1 V0
IT 2, ENCANA, SURVEYS V0	BROWN 31-5, ENCANA WELL, SURVEYS V0	HWY 4O-32H-O268, OH, PLAN#1 V0
7-8-32, DD, Plan#1 V0	ANDERSON TRUST C 1, ENCANA WELL, GYRO V0	HWY 4G-32H-O268, OH, PLAN#1 V0
RUST 32-8, ENCANA WELL, NOSURVEYS V0	ANDERSON TRUST 32-2, ENCANA WELL, GYRO V0	HWY 4J-32H-O268, OH, PLAN#1 V0
34-32, ENCANA WELL, ENCANA WELL V0	HWY 4B-32H-O268, OH, PLAN#1 V0	HWY 4E-32H-O268, OH, PLAN#1 V0
44-32, ENCANA WELL, ENCANA WELL V0	HWY 4I-32H-O268, OH, PLAN#1 V0	HWY 4H-32H-O268, OH, Plan#1 V0
3-6-32, ENCANA WELL, PLAN ONLY V0	HWY 4U-32H-O268, OH, PLAN#1 V0	HWY 4P-32H-O268, OH, PLAN#1 V0

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