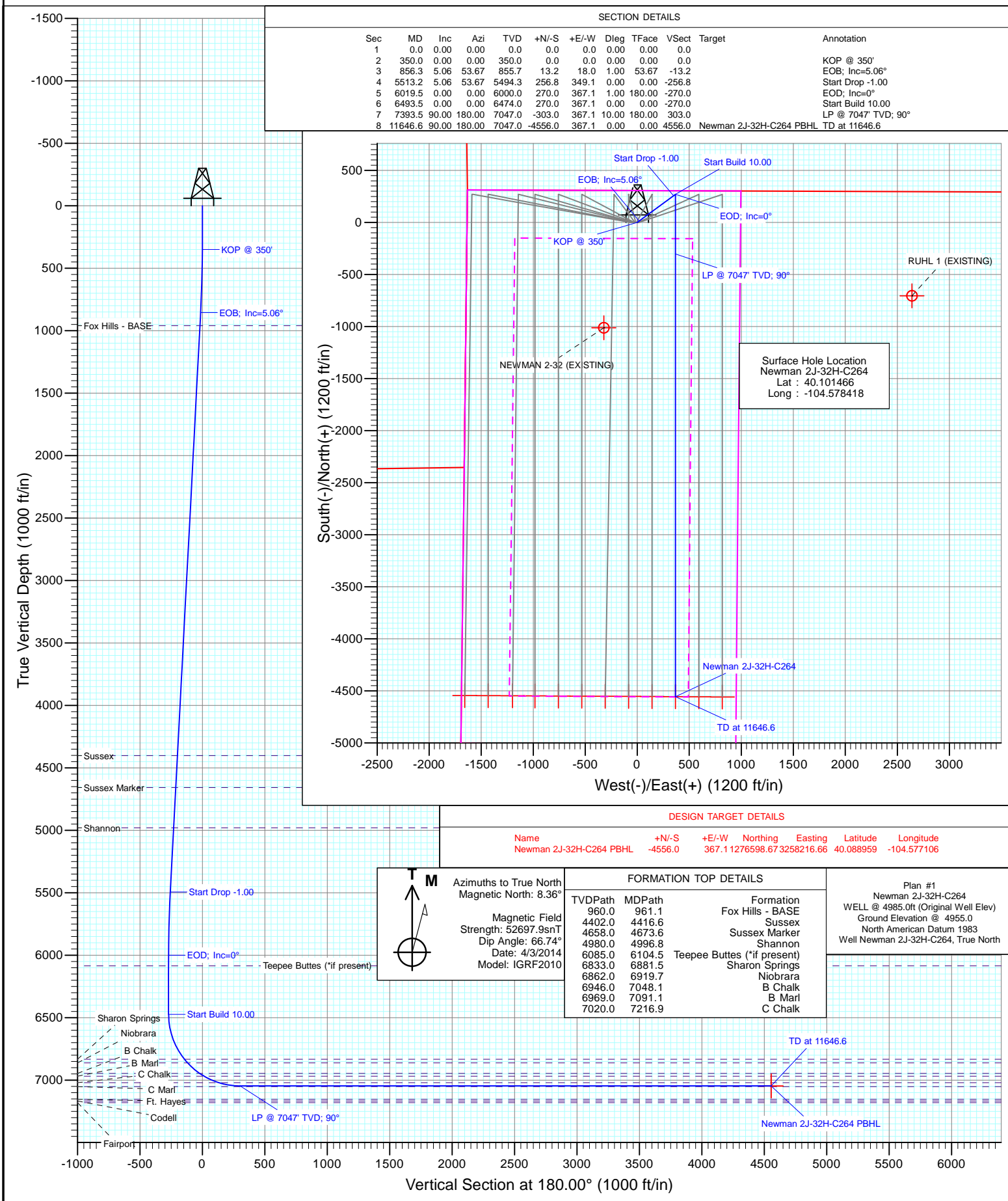




Project: DJ Wattenberg
Site: S32-T2N-R64W (Newman)
Well: Newman 2J-32H-C264
Wellbore: HZ
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
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-R64W (Newman)			
Site Position:		Northing:	1,281,150.66 ft	Latitude:	40.101468
From:	Lat/Long	Easting:	3,257,734.55 ft	Longitude:	-104.578660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.60 °

Well	Newman 2J-32H-C264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,150.60 ft	Latitude:	40.101466
	+E/-W	0.0 ft	Easting:	3,257,802.25 ft	Longitude:	-104.578418
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,955.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/3/2014	8.36	66.74	52,698

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	180.00

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
856.3	5.06	53.67	855.7	13.2	18.0	1.00	1.00	0.00	53.67	
5,513.2	5.06	53.67	5,494.3	256.8	349.1	0.00	0.00	0.00	0.00	
6,019.5	0.00	0.00	6,000.0	270.0	367.1	1.00	-1.00	0.00	180.00	
6,493.5	0.00	0.00	6,474.0	270.0	367.1	0.00	0.00	0.00	0.00	
7,393.5	90.00	180.00	7,047.0	-303.0	367.1	10.00	10.00	0.00	180.00	
11,646.6	90.00	180.00	7,047.0	-4,556.0	367.1	0.00	0.00	0.00	0.00	Newman 2J-32H-C26

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
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	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350'
400.0	0.50	53.67	400.0	0.1	0.2	-0.1	1.00	1.00	
500.0	1.50	53.67	500.0	1.2	1.6	-1.2	1.00	1.00	
600.0	2.50	53.67	599.9	3.2	4.4	-3.2	1.00	1.00	
700.0	3.50	53.67	699.8	6.3	8.6	-6.3	1.00	1.00	
800.0	4.50	53.67	799.5	10.5	14.2	-10.5	1.00	1.00	
856.3	5.06	53.67	855.7	13.2	18.0	-13.2	1.00	1.00	EOB; Inc=5.06°
900.0	5.06	53.67	899.2	15.5	21.1	-15.5	0.00	0.00	
961.1	5.06	53.67	960.0	18.7	25.5	-18.7	0.00	0.00	Fox Hills - BASE
1,000.0	5.06	53.67	998.8	20.8	28.2	-20.8	0.00	0.00	
1,100.0	5.06	53.67	1,098.4	26.0	35.3	-26.0	0.00	0.00	
1,200.0	5.06	53.67	1,198.0	31.2	42.4	-31.2	0.00	0.00	
1,300.0	5.06	53.67	1,297.6	36.4	49.6	-36.4	0.00	0.00	
1,400.0	5.06	53.67	1,397.2	41.7	56.7	-41.7	0.00	0.00	
1,500.0	5.06	53.67	1,496.8	46.9	63.8	-46.9	0.00	0.00	
1,600.0	5.06	53.67	1,596.4	52.1	70.9	-52.1	0.00	0.00	
1,700.0	5.06	53.67	1,696.0	57.4	78.0	-57.4	0.00	0.00	
1,800.0	5.06	53.67	1,795.7	62.6	85.1	-62.6	0.00	0.00	
1,900.0	5.06	53.67	1,895.3	67.8	92.2	-67.8	0.00	0.00	
2,000.0	5.06	53.67	1,994.9	73.0	99.3	-73.0	0.00	0.00	
2,100.0	5.06	53.67	2,094.5	78.3	106.4	-78.3	0.00	0.00	
2,200.0	5.06	53.67	2,194.1	83.5	113.5	-83.5	0.00	0.00	
2,300.0	5.06	53.67	2,293.7	88.7	120.6	-88.7	0.00	0.00	
2,400.0	5.06	53.67	2,393.3	94.0	127.8	-94.0	0.00	0.00	
2,500.0	5.06	53.67	2,492.9	99.2	134.9	-99.2	0.00	0.00	
2,600.0	5.06	53.67	2,592.5	104.4	142.0	-104.4	0.00	0.00	
2,700.0	5.06	53.67	2,692.1	109.7	149.1	-109.7	0.00	0.00	
2,800.0	5.06	53.67	2,791.8	114.9	156.2	-114.9	0.00	0.00	
2,900.0	5.06	53.67	2,891.4	120.1	163.3	-120.1	0.00	0.00	
3,000.0	5.06	53.67	2,991.0	125.3	170.4	-125.3	0.00	0.00	
3,100.0	5.06	53.67	3,090.6	130.6	177.5	-130.6	0.00	0.00	
3,200.0	5.06	53.67	3,190.2	135.8	184.6	-135.8	0.00	0.00	
3,300.0	5.06	53.67	3,289.8	141.0	191.7	-141.0	0.00	0.00	
3,400.0	5.06	53.67	3,389.4	146.3	198.9	-146.3	0.00	0.00	
3,500.0	5.06	53.67	3,489.0	151.5	206.0	-151.5	0.00	0.00	
3,600.0	5.06	53.67	3,588.6	156.7	213.1	-156.7	0.00	0.00	
3,700.0	5.06	53.67	3,688.2	161.9	220.2	-161.9	0.00	0.00	
3,800.0	5.06	53.67	3,787.9	167.2	227.3	-167.2	0.00	0.00	
3,900.0	5.06	53.67	3,887.5	172.4	234.4	-172.4	0.00	0.00	
4,000.0	5.06	53.67	3,987.1	177.6	241.5	-177.6	0.00	0.00	
4,100.0	5.06	53.67	4,086.7	182.9	248.6	-182.9	0.00	0.00	
4,200.0	5.06	53.67	4,186.3	188.1	255.7	-188.1	0.00	0.00	
4,300.0	5.06	53.67	4,285.9	193.3	262.8	-193.3	0.00	0.00	
4,400.0	5.06	53.67	4,385.5	198.5	269.9	-198.5	0.00	0.00	
4,416.6	5.06	53.67	4,402.0	199.4	271.1	-199.4	0.00	0.00	Sussex
4,500.0	5.06	53.67	4,485.1	203.8	277.1	-203.8	0.00	0.00	
4,600.0	5.06	53.67	4,584.7	209.0	284.2	-209.0	0.00	0.00	
4,673.6	5.06	53.67	4,658.0	212.8	289.4	-212.8	0.00	0.00	Sussex Marker

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
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
4,700.0	5.06	53.67	4,684.3	214.2	291.3	-214.2	0.00	0.00	
4,800.0	5.06	53.67	4,784.0	219.5	298.4	-219.5	0.00	0.00	
4,900.0	5.06	53.67	4,883.6	224.7	305.5	-224.7	0.00	0.00	
4,996.8	5.06	53.67	4,980.0	229.8	312.4	-229.8	0.00	0.00	Shannon
5,000.0	5.06	53.67	4,983.2	229.9	312.6	-229.9	0.00	0.00	
5,100.0	5.06	53.67	5,082.8	235.1	319.7	-235.1	0.00	0.00	
5,200.0	5.06	53.67	5,182.4	240.4	326.8	-240.4	0.00	0.00	
5,300.0	5.06	53.67	5,282.0	245.6	333.9	-245.6	0.00	0.00	
5,400.0	5.06	53.67	5,381.6	250.8	341.0	-250.8	0.00	0.00	
5,500.0	5.06	53.67	5,481.2	256.1	348.2	-256.1	0.00	0.00	
5,513.2	5.06	53.67	5,494.3	256.8	349.1	-256.8	0.00	0.00	Start Drop -1.00
5,600.0	4.19	53.67	5,580.9	260.9	354.7	-260.9	1.00	-1.00	
5,700.0	3.19	53.67	5,680.7	264.7	359.9	-264.7	1.00	-1.00	
5,800.0	2.19	53.67	5,780.6	267.5	363.7	-267.5	1.00	-1.00	
5,900.0	1.19	53.67	5,880.5	269.3	366.1	-269.3	1.00	-1.00	
6,000.0	0.19	53.67	5,980.5	270.0	367.1	-270.0	1.00	-1.00	
6,019.5	0.00	0.00	6,000.0	270.0	367.1	-270.0	1.00	-1.00	EOD; Inc=0°
6,100.0	0.00	0.00	6,080.5	270.0	367.1	-270.0	0.00	0.00	
6,104.5	0.00	0.00	6,085.0	270.0	367.1	-270.0	0.00	0.00	Teepee Buttes (*if present)
6,200.0	0.00	0.00	6,180.5	270.0	367.1	-270.0	0.00	0.00	
6,300.0	0.00	0.00	6,280.5	270.0	367.1	-270.0	0.00	0.00	
6,400.0	0.00	0.00	6,380.5	270.0	367.1	-270.0	0.00	0.00	
6,493.5	0.00	0.00	6,474.0	270.0	367.1	-270.0	0.00	0.00	Start Build 10.00
6,500.0	0.65	180.00	6,480.5	270.0	367.1	-270.0	10.00	10.00	
6,600.0	10.65	180.00	6,579.9	260.1	367.1	-260.1	10.00	10.00	
6,700.0	20.65	180.00	6,676.1	233.2	367.1	-233.2	10.00	10.00	
6,800.0	30.65	180.00	6,766.1	190.0	367.1	-190.0	10.00	10.00	
6,881.5	38.79	180.00	6,833.0	143.6	367.1	-143.6	10.00	10.00	Sharon Springs
6,900.0	40.65	180.00	6,847.3	131.8	367.1	-131.8	10.00	10.00	
6,919.7	42.62	180.00	6,862.0	118.7	367.1	-118.7	10.00	10.00	Niobrara
7,000.0	50.65	180.00	6,917.1	60.4	367.1	-60.4	10.00	10.00	
7,048.1	55.46	180.00	6,946.0	21.9	367.1	-21.9	10.00	10.00	B Chalk
7,091.1	59.75	180.00	6,969.0	-14.3	367.1	14.3	10.00	10.00	B Marl
7,100.0	60.65	180.00	6,973.4	-22.1	367.1	22.1	10.00	10.00	
7,200.0	70.65	180.00	7,014.6	-113.1	367.1	113.1	10.00	10.00	
7,216.9	72.34	180.00	7,020.0	-129.1	367.1	129.1	10.00	10.00	C Chalk
7,300.0	80.65	180.00	7,039.4	-209.8	367.1	209.8	10.00	10.00	
7,393.5	90.00	180.00	7,047.0	-303.0	367.1	303.0	10.00	10.00	LP @ 7047' TVD; 90°
7,400.0	90.00	180.00	7,047.0	-309.4	367.1	309.4	0.00	0.00	
7,500.0	90.00	180.00	7,047.0	-409.4	367.1	409.4	0.00	0.00	
7,600.0	90.00	180.00	7,047.0	-509.4	367.1	509.4	0.00	0.00	
7,700.0	90.00	180.00	7,047.0	-609.4	367.1	609.4	0.00	0.00	
7,800.0	90.00	180.00	7,047.0	-709.4	367.1	709.4	0.00	0.00	
7,900.0	90.00	180.00	7,047.0	-809.4	367.1	809.4	0.00	0.00	
8,000.0	90.00	180.00	7,047.0	-909.4	367.1	909.4	0.00	0.00	
8,100.0	90.00	180.00	7,047.0	-1,009.4	367.1	1,009.4	0.00	0.00	
8,200.0	90.00	180.00	7,047.0	-1,109.4	367.1	1,109.4	0.00	0.00	
8,300.0	90.00	180.00	7,047.0	-1,209.4	367.1	1,209.4	0.00	0.00	
8,400.0	90.00	180.00	7,047.0	-1,309.4	367.1	1,309.4	0.00	0.00	
8,500.0	90.00	180.00	7,047.0	-1,409.4	367.1	1,409.4	0.00	0.00	
8,600.0	90.00	180.00	7,047.0	-1,509.4	367.1	1,509.4	0.00	0.00	
8,700.0	90.00	180.00	7,047.0	-1,609.4	367.1	1,609.4	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
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
8,800.0	90.00	180.00	7,047.0	-1,709.4	367.1	1,709.4	0.00	0.00	
8,900.0	90.00	180.00	7,047.0	-1,809.4	367.1	1,809.4	0.00	0.00	
9,000.0	90.00	180.00	7,047.0	-1,909.4	367.1	1,909.4	0.00	0.00	
9,100.0	90.00	180.00	7,047.0	-2,009.4	367.1	2,009.4	0.00	0.00	
9,200.0	90.00	180.00	7,047.0	-2,109.4	367.1	2,109.4	0.00	0.00	
9,300.0	90.00	180.00	7,047.0	-2,209.4	367.1	2,209.4	0.00	0.00	
9,400.0	90.00	180.00	7,047.0	-2,309.4	367.1	2,309.4	0.00	0.00	
9,500.0	90.00	180.00	7,047.0	-2,409.4	367.1	2,409.4	0.00	0.00	
9,600.0	90.00	180.00	7,047.0	-2,509.4	367.1	2,509.4	0.00	0.00	
9,700.0	90.00	180.00	7,047.0	-2,609.4	367.1	2,609.4	0.00	0.00	
9,800.0	90.00	180.00	7,047.0	-2,709.4	367.1	2,709.4	0.00	0.00	
9,900.0	90.00	180.00	7,047.0	-2,809.4	367.1	2,809.4	0.00	0.00	
10,000.0	90.00	180.00	7,047.0	-2,909.4	367.1	2,909.4	0.00	0.00	
10,100.0	90.00	180.00	7,047.0	-3,009.4	367.1	3,009.4	0.00	0.00	
10,200.0	90.00	180.00	7,047.0	-3,109.4	367.1	3,109.4	0.00	0.00	
10,300.0	90.00	180.00	7,047.0	-3,209.4	367.1	3,209.4	0.00	0.00	
10,400.0	90.00	180.00	7,047.0	-3,309.4	367.1	3,309.4	0.00	0.00	
10,500.0	90.00	180.00	7,047.0	-3,409.4	367.1	3,409.4	0.00	0.00	
10,600.0	90.00	180.00	7,047.0	-3,509.4	367.1	3,509.4	0.00	0.00	
10,700.0	90.00	180.00	7,047.0	-3,609.4	367.1	3,609.4	0.00	0.00	
10,800.0	90.00	180.00	7,047.0	-3,709.4	367.1	3,709.4	0.00	0.00	
10,900.0	90.00	180.00	7,047.0	-3,809.4	367.1	3,809.4	0.00	0.00	
11,000.0	90.00	180.00	7,047.0	-3,909.4	367.1	3,909.4	0.00	0.00	
11,100.0	90.00	180.00	7,047.0	-4,009.4	367.1	4,009.4	0.00	0.00	
11,200.0	90.00	180.00	7,047.0	-4,109.4	367.1	4,109.4	0.00	0.00	
11,300.0	90.00	180.00	7,047.0	-4,209.4	367.1	4,209.4	0.00	0.00	
11,400.0	90.00	180.00	7,047.0	-4,309.4	367.1	4,309.4	0.00	0.00	
11,500.0	90.00	180.00	7,047.0	-4,409.4	367.1	4,409.4	0.00	0.00	
11,600.0	90.00	180.00	7,047.0	-4,509.4	367.1	4,509.4	0.00	0.00	
11,646.6	90.00	180.00	7,047.0	-4,556.0	367.1	4,556.0	0.00	0.00	TD at 11646.6

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									
Newman 2J-32H-C264 F	0.00	0.00	7,047.0	-4,556.0	367.1	1,276,598.67	3,258,216.66	40.088959	-104.577106
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
961.1	960.0	Fox Hills - BASE				
4,416.6	4,402.0	Sussex				
4,673.6	4,658.0	Sussex Marker				
4,996.8	4,980.0	Shannon				
6,104.5	6,085.0	Teepee Buttes (*if present)				
6,881.5	6,833.0	Sharon Springs				
6,919.7	6,862.0	Niobrara				
7,048.1	6,946.0	B Chalk				
7,091.1	6,969.0	B Marl				
7,216.9	7,020.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
350.0	350.0	0.0	0.0	KOP @ 350'	
856.3	855.7	13.2	18.0	EOB; Inc=5.06°	
5,513.2	5,494.3	256.8	349.1	Start Drop -1.00	
6,019.5	6,000.0	270.0	367.1	EOD; Inc=0°	
6,493.5	6,474.0	270.0	367.1	Start Build 10.00	
7,393.5	7,047.0	-303.0	367.1	LP @ 7047' TVD; 90°	
11,646.6	7,047.0	-4,556.0	367.1	TD at 11646.6	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R64W (Newman)

Newman 2J-32H-C264

HZ

Plan #1

Anticollision Report

04 April, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	4/4/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,646.6	Plan #1 (HZ)	Geolink MWD	Geolink MWD	

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-R64W (Newman)						
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE	8,102.5	6,995.0	688.2	653.1	19.588	CC, ES
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE	8,300.0	6,995.0	716.0	677.9	18.777	SF
Newman 2A-32H-C264 - HZ - Plan #1	200.0	197.0	67.7	67.1	115.103	CC, ES
Newman 2A-32H-C264 - HZ - Plan #1	600.0	585.0	98.4	96.4	49.984	SF
Newman 2B-32H-C264 - HZ - Plan #1	235.9	233.9	60.1	59.4	84.094	CC, ES
Newman 2B-32H-C264 - HZ - Plan #1	600.0	588.9	84.8	82.8	42.916	SF
Newman 2C-32H-C264 - HZ - Plan #1	300.0	298.0	52.6	51.7	56.009	CC, ES
Newman 2C-32H-C264 - HZ - Plan #1	600.0	591.3	71.7	69.8	36.244	SF
Newman 2D-32H-C264 - HZ - Plan #1	300.0	298.0	45.0	44.1	47.966	CC
Newman 2D-32H-C264 - HZ - Plan #1	329.6	327.6	45.1	44.0	43.242	ES
Newman 2D-32H-C264 - HZ - Plan #1	600.0	593.4	59.6	57.6	30.042	SF
Newman 2E-32H-C264 - HZ - Plan #1	300.0	298.0	37.5	36.5	39.922	CC
Newman 2E-32H-C264 - HZ - Plan #1	400.0	398.0	37.7	36.4	29.239	ES
Newman 2E-32H-C264 - HZ - Plan #1	600.0	596.5	45.1	43.1	22.702	SF
Newman 2F-32H-C264 - HZ - Plan #1	300.0	299.0	30.2	29.3	32.117	CC
Newman 2F-32H-C264 - HZ - Plan #1	400.0	399.0	30.4	29.1	23.561	ES
Newman 2F-32H-C264 - HZ - Plan #1	11,646.6	11,783.1	909.4	746.1	5.569	SF
Newman 2G-32H-C264 - HZ - Plan #1	300.0	299.0	22.7	21.7	24.089	CC
Newman 2G-32H-C264 - HZ - Plan #1	400.0	399.0	22.8	21.5	17.705	ES
Newman 2G-32H-C264 - HZ - Plan #1	11,646.6	11,626.0	675.1	510.3	4.098	SF
Newman 2H-32H-C264 - HZ - Plan #1	300.0	299.0	15.1	14.2	16.058	CC
Newman 2H-32H-C264 - HZ - Plan #1	400.0	399.0	15.3	14.0	11.848	ES
Newman 2H-32H-C264 - HZ - Plan #1	11,646.6	11,540.4	459.3	297.5	2.839	SF
Newman 2I-32H-C264 - HZ - Plan #1	300.0	300.0	7.6	6.6	8.014	CC
Newman 2I-32H-C264 - HZ - Plan #1	400.0	400.0	7.7	6.4	5.985	ES
Newman 2I-32H-C264 - HZ - Plan #1	11,646.6	11,764.5	259.8	115.8	1.804	SF
Newman 2K-32H-C264 - HZ - Plan #1	300.0	300.0	7.3	6.3	7.717	CC, ES
Newman 2K-32H-C264 - HZ - Plan #1	11,646.6	11,575.7	242.7	89.1	1.580	SF
Newman 2L-32H-C264 - HZ - Plan #1	233.4	233.4	14.8	14.1	20.888	CC
Newman 2L-32H-C264 - HZ - Plan #1	300.0	299.9	15.0	14.1	15.956	ES
Newman 2L-32H-C264 - HZ - Plan #1	11,646.6	11,826.5	468.3	309.5	2.949	SF
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 7893-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
7,400.0	7,047.0	6,995.0	6,995.0	15.5	12.2	90.00	-1,011.9	-321.2	983.5	957.1	26.33	37.354		
7,500.0	7,047.0	6,995.0	6,995.0	16.4	12.2	90.00	-1,011.9	-321.2	914.7	887.4	27.28	33.526		
7,600.0	7,047.0	6,995.0	6,995.0	17.4	12.2	90.00	-1,011.9	-321.2	852.2	823.8	28.37	30.033		
7,700.0	7,047.0	6,995.0	6,995.0	18.5	12.2	90.00	-1,011.9	-321.2	797.3	767.7	29.57	26.960		
7,800.0	7,047.0	6,995.0	6,995.0	19.7	12.2	90.00	-1,011.9	-321.2	751.8	720.9	30.86	24.361		
7,900.0	7,047.0	6,995.0	6,995.0	21.0	12.2	90.00	-1,011.9	-321.2	717.4	685.2	32.22	22.267		
8,000.0	7,047.0	6,995.0	6,995.0	22.4	12.2	90.00	-1,011.9	-321.2	695.8	662.2	33.64	20.688		
8,100.0	7,047.0	6,995.0	6,995.0	23.8	12.2	90.00	-1,011.9	-321.2	688.3	653.2	35.10	19.609		
8,102.5	7,047.0	6,995.0	6,995.0	23.8	12.2	90.00	-1,011.9	-321.2	688.2	653.1	35.14	19.588 CC, ES		
8,200.0	7,047.0	6,995.0	6,995.0	25.2	12.2	90.00	-1,011.9	-321.2	695.1	658.5	36.60	18.992		
8,300.0	7,047.0	6,995.0	6,995.0	26.7	12.2	90.00	-1,011.9	-321.2	716.0	677.9	38.13	18.777 SF		
8,400.0	7,047.0	6,995.0	6,995.0	28.2	12.2	90.00	-1,011.9	-321.2	749.8	710.1	39.69	18.890		
8,500.0	7,047.0	6,995.0	6,995.0	29.8	12.2	90.00	-1,011.9	-321.2	794.8	753.5	41.27	19.256		
8,600.0	7,047.0	6,995.0	6,995.0	31.3	12.2	90.00	-1,011.9	-321.2	849.2	806.3	42.87	19.807		
8,700.0	7,047.0	6,995.0	6,995.0	32.9	12.2	90.00	-1,011.9	-321.2	911.4	866.9	44.49	20.485		
8,800.0	7,047.0	6,995.0	6,995.0	34.5	12.2	90.00	-1,011.9	-321.2	979.9	933.8	46.12	21.246		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2A-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.36	0.8	-67.7	67.8					
100.0	100.0	97.0	97.0	0.1	0.1	-89.36	0.8	-67.7	67.7	67.5	0.24	281.288		
200.0	200.0	197.0	197.0	0.3	0.3	-89.36	0.8	-67.7	67.7	67.1	0.59	115.103 CC, ES		
300.0	300.0	294.8	294.7	0.5	0.5	-89.15	1.0	-69.2	69.3	68.3	0.94	74.001		
400.0	400.0	392.2	392.1	0.6	0.7	-142.29	1.9	-74.0	74.4	73.1	1.28	58.196		
500.0	500.0	489.1	488.6	0.8	0.9	-142.10	3.3	-82.0	84.1	82.5	1.62	51.788		
600.0	599.9	585.0	583.9	1.0	1.1	-142.24	5.3	-93.1	98.4	96.4	1.97	49.984 SF		
700.0	699.8	679.7	677.5	1.2	1.4	-142.55	7.8	-107.1	117.4	115.1	2.32	50.674		
800.0	799.5	772.8	769.0	1.4	1.8	-142.93	10.7	-123.9	140.8	138.2	2.67	52.830		
900.0	899.2	864.0	858.1	1.6	2.1	-143.34	14.1	-143.1	168.6	165.6	3.02	55.846		
1,000.0	998.8	953.4	944.8	1.8	2.6	-143.59	18.0	-164.7	199.6	196.2	3.37	59.132		
1,100.0	1,098.4	1,041.0	1,029.0	2.0	3.0	-143.64	22.2	-188.4	233.4	229.7	3.73	62.573		
1,200.0	1,198.0	1,131.9	1,115.7	2.3	3.5	-143.59	26.9	-215.0	269.4	265.3	4.09	65.828		
1,300.0	1,297.6	1,225.1	1,204.7	2.5	4.0	-143.54	31.8	-242.5	305.6	301.1	4.46	68.504		
1,400.0	1,397.2	1,318.3	1,293.6	2.7	4.5	-143.51	36.7	-269.9	341.8	337.0	4.83	70.755		
1,500.0	1,496.8	1,411.5	1,382.6	2.9	5.1	-143.48	41.6	-297.4	378.0	372.8	5.20	72.674		
1,600.0	1,596.4	1,504.8	1,471.5	3.2	5.6	-143.46	46.4	-324.9	414.2	408.6	5.57	74.329		
1,700.0	1,696.0	1,598.0	1,560.5	3.4	6.1	-143.44	51.3	-352.4	450.4	444.4	5.94	75.770		
1,800.0	1,795.7	1,691.2	1,649.4	3.6	6.6	-143.42	56.2	-379.8	486.5	480.2	6.32	77.036		
1,900.0	1,895.3	1,784.4	1,738.4	3.9	7.2	-143.40	61.1	-407.3	522.7	516.0	6.69	78.156		
2,000.0	1,994.9	1,877.6	1,827.3	4.1	7.7	-143.39	65.9	-434.8	558.9	551.9	7.06	79.155		
2,100.0	2,094.5	1,970.9	1,916.3	4.3	8.2	-143.38	70.8	-462.2	595.1	587.7	7.43	80.051		
2,200.0	2,194.1	2,064.1	2,005.2	4.6	8.8	-143.37	75.7	-489.7	631.3	623.5	7.81	80.858		
2,300.0	2,293.7	2,157.3	2,094.2	4.8	9.3	-143.36	80.6	-517.2	667.5	659.3	8.18	81.590		
2,400.0	2,393.3	2,250.5	2,183.1	5.0	9.8	-143.35	85.5	-544.7	703.7	695.1	8.55	82.257		
2,500.0	2,492.9	2,343.8	2,272.1	5.3	10.3	-143.34	90.3	-572.1	739.9	730.9	8.93	82.866		
2,600.0	2,592.5	2,437.0	2,361.0	5.5	10.9	-143.34	95.2	-599.6	776.1	766.8	9.30	83.425		
2,700.0	2,692.1	2,530.2	2,450.0	5.7	11.4	-143.33	100.1	-627.1	812.2	802.6	9.68	83.940		
2,800.0	2,791.8	2,623.4	2,538.9	5.9	11.9	-143.33	105.0	-654.6	848.4	838.4	10.05	84.416		
2,900.0	2,891.4	2,716.6	2,627.8	6.2	12.5	-143.32	109.9	-682.0	884.6	874.2	10.42	84.857		
3,000.0	2,991.0	2,809.9	2,716.8	6.4	13.0	-143.32	114.7	-709.5	920.8	910.0	10.80	85.266		
3,100.0	3,090.6	2,903.1	2,805.7	6.6	13.5	-143.31	119.6	-737.0	957.0	945.8	11.17	85.648		
3,200.0	3,190.2	2,996.3	2,894.7	6.9	14.1	-143.31	124.5	-764.4	993.2	981.6	11.55	86.004		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2B-32H-C264 - HZ - 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	-89.29	0.7	-60.1	60.2					
100.0	100.0	98.0	98.0	0.1	0.1	-89.29	0.7	-60.1	60.1	59.9	0.24	248.646		
200.0	200.0	198.0	198.0	0.3	0.3	-89.29	0.7	-60.1	60.1	59.6	0.59	101.959		
235.9	235.9	233.9	233.9	0.4	0.4	-89.29	0.7	-60.1	60.1	59.4	0.72	84.094 CC, ES		
300.0	300.0	297.0	297.0	0.5	0.5	-89.23	0.8	-60.5	60.5	59.6	0.94	64.573		
400.0	400.0	394.9	394.8	0.6	0.6	-142.47	1.4	-63.7	64.0	62.7	1.28	49.894		
500.0	500.0	492.3	492.0	0.8	0.8	-142.34	2.7	-70.2	72.0	70.4	1.63	44.236		
600.0	599.9	588.9	588.1	1.0	1.1	-142.53	4.6	-79.8	84.8	82.8	1.98	42.916 SF		
700.0	699.8	684.3	682.6	1.2	1.3	-142.87	7.1	-92.4	102.1	99.8	2.32	43.949		
800.0	799.5	778.2	775.2	1.4	1.7	-143.25	10.1	-107.8	124.0	121.4	2.68	46.366		
900.0	899.2	870.4	865.5	1.6	2.0	-143.64	13.7	-125.8	150.3	147.3	3.03	49.590		
1,000.0	998.8	960.8	953.6	1.8	2.4	-143.83	17.7	-146.2	179.8	176.4	3.39	53.045		
1,100.0	1,098.4	1,050.3	1,040.0	2.0	2.8	-143.80	22.2	-169.1	212.1	208.4	3.75	56.598		
1,200.0	1,198.0	1,144.6	1,130.7	2.3	3.3	-143.73	27.1	-194.2	245.6	241.4	4.12	59.638		
1,300.0	1,297.6	1,238.8	1,221.4	2.5	3.8	-143.67	32.1	-219.3	279.0	274.5	4.49	62.159		
1,400.0	1,397.2	1,333.1	1,312.1	2.7	4.2	-143.62	37.0	-244.5	312.4	307.6	4.86	64.279		
1,500.0	1,496.8	1,427.3	1,402.8	2.9	4.7	-143.58	41.9	-269.6	345.9	340.6	5.23	66.087		
1,600.0	1,596.4	1,521.6	1,493.5	3.2	5.2	-143.55	46.9	-294.7	379.3	373.7	5.61	67.646		
1,700.0	1,696.0	1,615.8	1,584.2	3.4	5.7	-143.53	51.8	-319.8	412.8	406.8	5.98	69.004		
1,800.0	1,795.7	1,710.0	1,674.9	3.6	6.2	-143.50	56.8	-344.9	446.2	439.8	6.36	70.196		
1,900.0	1,895.3	1,804.3	1,765.6	3.9	6.7	-143.49	61.7	-370.1	479.6	472.9	6.73	71.252		
2,000.0	1,994.9	1,898.5	1,856.3	4.1	7.1	-143.47	66.6	-395.2	513.1	506.0	7.11	72.193		
2,100.0	2,094.5	1,992.8	1,947.0	4.3	7.6	-143.45	71.6	-420.3	546.5	539.0	7.48	73.036		
2,200.0	2,194.1	2,087.0	2,037.7	4.6	8.1	-143.44	76.5	-445.4	580.0	572.1	7.86	73.797		
2,300.0	2,293.7	2,181.3	2,128.4	4.8	8.6	-143.43	81.5	-470.6	613.4	605.2	8.23	74.487		
2,400.0	2,393.3	2,275.5	2,219.1	5.0	9.1	-143.42	86.4	-495.7	646.8	638.2	8.61	75.114		
2,500.0	2,492.9	2,369.7	2,309.8	5.3	9.6	-143.41	91.3	-520.8	680.3	671.3	8.99	75.688		
2,600.0	2,592.5	2,464.0	2,400.5	5.5	10.1	-143.40	96.3	-545.9	713.7	704.4	9.36	76.214		
2,700.0	2,692.1	2,558.2	2,491.2	5.7	10.6	-143.40	101.2	-571.0	747.2	737.4	9.74	76.699		
2,800.0	2,791.8	2,652.5	2,581.9	5.9	11.0	-143.39	106.2	-596.2	780.6	770.5	10.12	77.147		
2,900.0	2,891.4	2,746.7	2,672.6	6.2	11.5	-143.38	111.1	-621.3	814.0	803.5	10.50	77.562		
3,000.0	2,991.0	2,841.0	2,763.2	6.4	12.0	-143.38	116.0	-646.4	847.5	836.6	10.87	77.948		
3,100.0	3,090.6	2,935.2	2,853.9	6.6	12.5	-143.37	121.0	-671.5	880.9	869.7	11.25	78.307		
3,200.0	3,190.2	3,029.4	2,944.6	6.9	13.0	-143.37	125.9	-696.6	914.4	902.7	11.63	78.643		
3,300.0	3,289.8	3,123.7	3,035.3	7.1	13.5	-143.36	130.9	-721.8	947.8	935.8	12.00	78.957		
3,400.0	3,389.4	3,217.9	3,126.0	7.3	14.0	-143.36	135.8	-746.9	981.2	968.9	12.38	79.251		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2C-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-52.6	52.6					
100.0	100.0	98.0	98.0	0.1	0.1	-89.58	0.4	-52.6	52.6	52.4	0.24	217.410		
200.0	200.0	198.0	198.0	0.3	0.3	-89.58	0.4	-52.6	52.6	52.0	0.59	89.151		
300.0	300.0	298.0	298.0	0.5	0.5	-89.58	0.4	-52.6	52.6	51.7	0.94	56.009 CC, ES		
400.0	400.0	396.2	396.2	0.6	0.6	-142.99	0.8	-54.2	54.4	53.1	1.29	42.310		
500.0	500.0	494.1	494.0	0.8	0.8	-142.90	1.9	-59.0	60.7	59.1	1.63	37.208		
600.0	599.9	591.3	590.8	1.0	1.0	-143.05	3.8	-67.0	71.7	69.8	1.98	36.244 SF		
700.0	699.8	687.5	686.3	1.2	1.3	-143.30	6.4	-78.1	87.4	85.1	2.33	37.523		
800.0	799.5	782.3	780.0	1.4	1.6	-143.56	9.7	-92.0	107.7	105.0	2.68	40.118		
900.0	899.2	875.4	871.5	1.6	1.9	-143.82	13.6	-108.6	132.3	129.2	3.04	43.475		
1,000.0	998.8	967.5	961.4	1.8	2.3	-143.84	18.1	-127.9	160.1	156.7	3.40	47.026		
1,100.0	1,098.4	1,063.2	1,054.6	2.0	2.7	-143.77	23.1	-149.1	189.1	185.3	3.78	50.081		
1,200.0	1,198.0	1,158.9	1,147.8	2.3	3.1	-143.71	28.1	-170.3	218.1	214.0	4.15	52.566		
1,300.0	1,297.6	1,254.5	1,241.0	2.5	3.5	-143.67	33.1	-191.5	247.1	242.6	4.52	54.624		
1,400.0	1,397.2	1,350.2	1,334.2	2.7	3.9	-143.64	38.1	-212.6	276.1	271.2	4.90	56.353		
1,500.0	1,496.8	1,445.9	1,427.4	2.9	4.3	-143.61	43.1	-233.8	305.2	299.9	5.28	57.827		
1,600.0	1,596.4	1,541.6	1,520.6	3.2	4.7	-143.59	48.1	-255.0	334.2	328.5	5.65	59.096		
1,700.0	1,696.0	1,637.3	1,613.8	3.4	5.1	-143.57	53.1	-276.2	363.2	357.1	6.03	60.201		
1,800.0	1,795.7	1,733.0	1,707.0	3.6	5.5	-143.55	58.1	-297.4	392.2	385.8	6.41	61.172		
1,900.0	1,895.3	1,828.7	1,800.2	3.9	6.0	-143.54	63.1	-318.5	421.2	414.4	6.79	62.030		
2,000.0	1,994.9	1,924.4	1,893.4	4.1	6.4	-143.53	68.1	-339.7	450.2	443.0	7.17	62.795		
2,100.0	2,094.5	2,020.1	1,986.5	4.3	6.8	-143.52	73.1	-360.9	479.2	471.7	7.55	63.480		
2,200.0	2,194.1	2,115.8	2,079.7	4.6	7.2	-143.51	78.1	-382.1	508.2	500.3	7.93	64.098		
2,300.0	2,293.7	2,211.5	2,172.9	4.8	7.6	-143.50	83.0	-403.3	537.2	528.9	8.31	64.658		
2,400.0	2,393.3	2,307.2	2,266.1	5.0	8.1	-143.49	88.0	-424.4	566.3	557.6	8.69	65.168		
2,500.0	2,492.9	2,402.9	2,359.3	5.3	8.5	-143.48	93.0	-445.6	595.3	586.2	9.07	65.634		
2,600.0	2,592.5	2,498.6	2,452.5	5.5	8.9	-143.48	98.0	-466.8	624.3	614.8	9.45	66.061		
2,700.0	2,692.1	2,594.3	2,545.7	5.7	9.3	-143.47	103.0	-488.0	653.3	643.5	9.83	66.454		
2,800.0	2,791.8	2,690.0	2,638.9	5.9	9.7	-143.47	108.0	-509.2	682.3	672.1	10.21	66.818		
2,900.0	2,891.4	2,785.7	2,732.1	6.2	10.2	-143.46	113.0	-530.4	711.3	700.7	10.59	67.154		
3,000.0	2,991.0	2,881.4	2,825.3	6.4	10.6	-143.46	118.0	-551.5	740.3	729.3	10.97	67.467		
3,100.0	3,090.6	2,977.1	2,918.5	6.6	11.0	-143.45	123.0	-572.7	769.3	758.0	11.35	67.758		
3,200.0	3,190.2	3,072.8	3,011.7	6.9	11.4	-143.45	128.0	-593.9	798.3	786.6	11.74	68.030		
3,300.0	3,289.8	3,168.5	3,104.9	7.1	11.8	-143.45	133.0	-615.1	827.3	815.2	12.12	68.284		
3,400.0	3,389.4	3,264.2	3,198.1	7.3	12.3	-143.44	138.0	-636.3	856.4	843.9	12.50	68.523		
3,500.0	3,489.0	3,359.9	3,291.2	7.6	12.7	-143.44	143.0	-657.4	885.4	872.5	12.88	68.747		
3,600.0	3,588.6	3,455.6	3,384.4	7.8	13.1	-143.44	148.0	-678.6	914.4	901.1	13.26	68.958		
3,700.0	3,688.2	3,551.3	3,477.6	8.0	13.5	-143.44	152.9	-699.8	943.4	929.7	13.64	69.158		
3,800.0	3,787.9	3,647.0	3,570.8	8.3	14.0	-143.43	157.9	-721.0	972.4	958.4	14.02	69.346		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - HZ - 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	-89.52	0.4	-45.0	45.1					
100.0	100.0	98.0	98.0	0.1	0.1	-89.52	0.4	-45.0	45.0	44.8	0.24	186.187		
200.0	200.0	198.0	198.0	0.3	0.3	-89.52	0.4	-45.0	45.0	44.4	0.59	76.348		
300.0	300.0	298.0	298.0	0.5	0.5	-89.52	0.4	-45.0	45.0	44.1	0.94	47.966 CC		
329.6	329.6	327.6	327.6	0.5	0.5	-143.22	0.4	-45.0	45.1	44.0	1.04	43.242 ES		
400.0	400.0	397.3	397.3	0.6	0.6	-143.21	0.5	-45.4	45.6	44.3	1.29	35.433		
500.0	500.0	495.6	495.5	0.8	0.8	-143.34	1.4	-48.6	50.2	48.6	1.63	30.748		
600.0	599.9	593.4	593.1	1.0	1.0	-143.51	3.2	-55.0	59.6	57.6	1.98	30.042 SF		
700.0	699.8	690.2	689.4	1.2	1.2	-143.67	6.0	-64.4	73.5	71.2	2.33	31.493		
800.0	799.5	785.8	784.2	1.4	1.5	-143.78	9.5	-76.8	92.0	89.4	2.69	34.208		
900.0	899.2	879.9	876.9	1.6	1.8	-143.85	13.9	-92.0	114.9	111.9	3.05	37.652		
1,000.0	998.8	976.3	971.6	1.8	2.1	-143.79	18.9	-109.4	139.9	136.5	3.42	40.865		
1,100.0	1,098.4	1,073.2	1,066.7	2.0	2.5	-143.74	23.9	-126.8	164.9	161.1	3.80	43.417		
1,200.0	1,198.0	1,170.0	1,161.8	2.3	2.8	-143.71	29.0	-144.3	189.9	185.7	4.17	45.490		
1,300.0	1,297.6	1,266.8	1,256.9	2.5	3.2	-143.68	34.0	-161.8	214.8	210.3	4.55	47.205		
1,400.0	1,397.2	1,363.7	1,352.0	2.7	3.5	-143.66	39.0	-179.2	239.8	234.9	4.93	48.646		
1,500.0	1,496.8	1,460.5	1,447.2	2.9	3.9	-143.64	44.0	-196.7	264.8	259.5	5.31	49.873		
1,600.0	1,596.4	1,557.3	1,542.3	3.2	4.2	-143.63	49.1	-214.2	289.8	284.1	5.69	50.930		
1,700.0	1,696.0	1,654.1	1,637.4	3.4	4.6	-143.61	54.1	-231.6	314.8	308.7	6.07	51.849		
1,800.0	1,795.7	1,751.0	1,732.5	3.6	4.9	-143.60	59.1	-249.1	339.8	333.3	6.45	52.656		
1,900.0	1,895.3	1,847.8	1,827.6	3.9	5.3	-143.60	64.1	-266.6	364.8	357.9	6.83	53.369		
2,000.0	1,994.9	1,944.6	1,922.7	4.1	5.7	-143.59	69.2	-284.0	389.7	382.5	7.22	54.005		
2,100.0	2,094.5	2,041.5	2,017.8	4.3	6.0	-143.58	74.2	-301.5	414.7	407.1	7.60	54.575		
2,200.0	2,194.1	2,138.3	2,112.9	4.6	6.4	-143.57	79.2	-319.0	439.7	431.7	7.98	55.088		
2,300.0	2,293.7	2,235.1	2,208.0	4.8	6.7	-143.57	84.3	-336.4	464.7	456.3	8.36	55.553		
2,400.0	2,393.3	2,331.9	2,303.1	5.0	7.1	-143.56	89.3	-353.9	489.7	480.9	8.75	55.976		
2,500.0	2,492.9	2,428.8	2,398.2	5.3	7.5	-143.56	94.3	-371.3	514.7	505.5	9.13	56.363		
2,600.0	2,592.5	2,525.6	2,493.3	5.5	7.8	-143.56	99.3	-388.8	539.6	530.1	9.51	56.718		
2,700.0	2,692.1	2,622.4	2,588.4	5.7	8.2	-143.55	104.4	-406.3	564.6	554.7	9.90	57.044		
2,800.0	2,791.8	2,719.3	2,683.6	5.9	8.5	-143.55	109.4	-423.7	589.6	579.3	10.28	57.346		
2,900.0	2,891.4	2,816.1	2,778.7	6.2	8.9	-143.55	114.4	-441.2	614.6	603.9	10.67	57.625		
3,000.0	2,991.0	2,912.9	2,873.8	6.4	9.3	-143.54	119.5	-458.7	639.6	628.5	11.05	57.885		
3,100.0	3,090.6	3,009.7	2,968.9	6.6	9.6	-143.54	124.5	-476.1	664.6	653.1	11.43	58.126		
3,200.0	3,190.2	3,106.6	3,064.0	6.9	10.0	-143.54	129.5	-493.6	689.5	677.7	11.82	58.352		
3,300.0	3,289.8	3,203.4	3,159.1	7.1	10.4	-143.54	134.5	-511.1	714.5	702.3	12.20	58.563		
3,400.0	3,389.4	3,300.2	3,254.2	7.3	10.7	-143.53	139.6	-528.5	739.5	726.9	12.59	58.761		
3,500.0	3,489.0	3,397.1	3,349.3	7.6	11.1	-143.53	144.6	-546.0	764.5	751.5	12.97	58.947		
3,600.0	3,588.6	3,493.9	3,444.4	7.8	11.4	-143.53	149.6	-563.5	789.5	776.1	13.35	59.122		
3,700.0	3,688.2	3,590.7	3,539.5	8.0	11.8	-143.53	154.6	-580.9	814.5	800.7	13.74	59.287		
3,800.0	3,787.9	3,687.5	3,634.6	8.3	12.2	-143.53	159.7	-598.4	839.5	825.3	14.12	59.443		
3,900.0	3,887.5	3,784.4	3,729.7	8.5	12.5	-143.53	164.7	-615.9	864.4	849.9	14.51	59.590		
4,000.0	3,987.1	3,881.2	3,824.8	8.7	12.9	-143.52	169.7	-633.3	889.4	874.5	14.89	59.730		
4,100.0	4,086.7	3,978.0	3,920.0	9.0	13.3	-143.52	174.8	-650.8	914.4	899.1	15.28	59.862		
4,200.0	4,186.3	4,074.9	4,015.1	9.2	13.6	-143.52	179.8	-668.3	939.4	923.7	15.66	59.988		
4,300.0	4,285.9	4,171.7	4,110.2	9.4	14.0	-143.52	184.8	-685.7	964.4	948.3	16.04	60.108		
4,400.0	4,385.5	4,268.5	4,205.3	9.7	14.3	-143.52	189.8	-703.2	989.4	972.9	16.43	60.222		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - HZ - 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	-89.44	0.4	-37.5	37.5					
100.0	100.0	98.0	98.0	0.1	0.1	-89.44	0.4	-37.5	37.5	37.2	0.24	154.965		
200.0	200.0	198.0	198.0	0.3	0.3	-89.44	0.4	-37.5	37.5	36.9	0.59	63.545		
300.0	300.0	298.0	298.0	0.5	0.5	-89.44	0.4	-37.5	37.5	36.5	0.94	39.922 CC		
327.9	327.9	325.9	325.9	0.5	0.5	-143.14	0.4	-37.5	37.5	36.5	1.04	36.201		
400.0	400.0	398.0	398.0	0.6	0.6	-143.31	0.4	-37.5	37.7	36.4	1.29	29.239 ES		
500.0	500.0	497.4	497.4	0.8	0.8	-144.37	0.7	-38.3	39.8	38.2	1.64	24.351		
600.0	599.9	596.5	596.5	1.0	1.0	-145.74	1.5	-40.6	45.1	43.1	1.99	22.702 SF		
700.0	699.8	695.4	695.3	1.2	1.2	-147.07	3.0	-44.6	53.4	51.0	2.34	22.833		
800.0	799.5	793.8	793.5	1.4	1.4	-148.19	5.1	-50.2	64.7	62.0	2.69	24.032		
900.0	899.2	891.7	891.1	1.6	1.6	-149.03	7.8	-57.2	79.0	75.9	3.05	25.862		
1,000.0	998.8	989.1	988.0	1.8	1.8	-149.26	11.0	-65.8	95.0	91.5	3.42	27.781		
1,100.0	1,098.4	1,086.0	1,084.3	2.0	2.0	-149.05	14.8	-75.9	112.4	108.7	3.79	29.695		
1,200.0	1,198.0	1,182.3	1,179.9	2.3	2.3	-148.58	19.1	-87.4	131.4	127.3	4.16	31.600		
1,300.0	1,297.6	1,278.0	1,274.6	2.5	2.5	-147.96	23.9	-100.4	151.9	147.4	4.53	33.496		
1,400.0	1,397.2	1,374.1	1,369.4	2.7	2.8	-147.28	29.3	-114.7	173.8	168.8	4.91	35.362		
1,500.0	1,496.8	1,471.6	1,465.6	2.9	3.1	-146.70	34.9	-129.6	195.9	190.6	5.30	36.989		
1,600.0	1,596.4	1,569.1	1,561.8	3.2	3.4	-146.24	40.5	-144.5	218.1	212.4	5.68	38.393		
1,700.0	1,696.0	1,666.6	1,658.0	3.4	3.7	-145.86	46.0	-159.3	240.3	234.3	6.07	39.617		
1,800.0	1,795.7	1,764.1	1,754.2	3.6	4.1	-145.55	51.6	-174.2	262.5	256.1	6.45	40.693		
1,900.0	1,895.3	1,861.6	1,850.4	3.9	4.4	-145.29	57.2	-189.1	284.7	277.9	6.84	41.645		
2,000.0	1,994.9	1,959.1	1,946.6	4.1	4.7	-145.06	62.7	-204.0	307.0	299.7	7.22	42.494		
2,100.0	2,094.5	2,056.6	2,042.8	4.3	5.0	-144.87	68.3	-218.8	329.2	321.6	7.61	43.256		
2,200.0	2,194.1	2,154.1	2,139.0	4.6	5.3	-144.70	73.9	-233.7	351.4	343.4	8.00	43.942		
2,300.0	2,293.7	2,251.5	2,235.2	4.8	5.7	-144.55	79.5	-248.6	373.6	365.3	8.38	44.564		
2,400.0	2,393.3	2,349.0	2,331.4	5.0	6.0	-144.42	85.0	-263.4	395.9	387.1	8.77	45.131		
2,500.0	2,492.9	2,446.5	2,427.5	5.3	6.3	-144.30	90.6	-278.3	418.1	408.9	9.16	45.649		
2,600.0	2,592.5	2,544.0	2,523.7	5.5	6.6	-144.19	96.2	-293.2	440.3	430.8	9.55	46.124		
2,700.0	2,692.1	2,641.5	2,619.9	5.7	6.9	-144.09	101.8	-308.1	462.6	452.6	9.93	46.562		
2,800.0	2,791.8	2,739.0	2,716.1	5.9	7.3	-144.00	107.3	-322.9	484.8	474.5	10.32	46.966		
2,900.0	2,891.4	2,836.5	2,812.3	6.2	7.6	-143.92	112.9	-337.8	507.0	496.3	10.71	47.341		
3,000.0	2,991.0	2,934.0	2,908.5	6.4	7.9	-143.85	118.5	-352.7	529.3	518.2	11.10	47.689		
3,100.0	3,090.6	3,031.5	3,004.7	6.6	8.2	-143.78	124.0	-367.5	551.5	540.0	11.49	48.013		
3,200.0	3,190.2	3,129.0	3,100.9	6.9	8.6	-143.72	129.6	-382.4	573.8	561.9	11.88	48.316		
3,300.0	3,289.8	3,226.5	3,197.1	7.1	8.9	-143.66	135.2	-397.3	596.0	583.7	12.26	48.599		
3,400.0	3,389.4	3,324.0	3,293.3	7.3	9.2	-143.61	140.8	-412.2	618.2	605.6	12.65	48.865		
3,500.0	3,489.0	3,421.5	3,389.5	7.6	9.5	-143.56	146.3	-427.0	640.5	627.4	13.04	49.115		
3,600.0	3,588.6	3,519.0	3,485.7	7.8	9.9	-143.51	151.9	-441.9	662.7	649.3	13.43	49.350		
3,700.0	3,688.2	3,616.5	3,581.8	8.0	10.2	-143.47	157.5	-456.8	685.0	671.1	13.82	49.571		
3,800.0	3,787.9	3,714.0	3,678.0	8.3	10.5	-143.43	163.1	-471.6	707.2	693.0	14.21	49.781		
3,900.0	3,887.5	3,811.5	3,774.2	8.5	10.8	-143.39	168.6	-486.5	729.5	714.9	14.60	49.979		
4,000.0	3,987.1	3,908.9	3,870.4	8.7	11.2	-143.36	174.2	-501.4	751.7	736.7	14.98	50.167		
4,100.0	4,086.7	4,006.4	3,966.6	9.0	11.5	-143.32	179.8	-516.3	773.9	758.6	15.37	50.345		
4,200.0	4,186.3	4,103.9	4,062.8	9.2	11.8	-143.29	185.4	-531.1	796.2	780.4	15.76	50.514		
4,300.0	4,285.9	4,201.4	4,159.0	9.4	12.1	-143.26	190.9	-546.0	818.4	802.3	16.15	50.675		
4,400.0	4,385.5	4,298.9	4,255.2	9.7	12.5	-143.23	196.5	-560.9	840.7	824.1	16.54	50.829		
4,500.0	4,485.1	4,396.4	4,351.4	9.9	12.8	-143.20	202.1	-575.7	862.9	846.0	16.93	50.975		
4,600.0	4,584.7	4,493.9	4,447.6	10.1	13.1	-143.18	207.6	-590.6	885.2	867.8	17.32	51.115		
4,700.0	4,684.3	4,591.4	4,543.8	10.4	13.4	-143.15	213.2	-605.5	907.4	889.7	17.71	51.248		
4,800.0	4,784.0	4,688.9	4,640.0	10.6	13.8	-143.13	218.8	-620.4	929.6	911.6	18.09	51.376		
4,900.0	4,883.6	4,786.4	4,736.1	10.8	14.1	-143.11	224.4	-635.2	951.9	933.4	18.48	51.498		
5,000.0	4,983.2	4,883.9	4,832.3	11.1	14.4	-143.09	229.9	-650.1	974.1	955.3	18.87	51.615		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - HZ - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,082.8	4,981.4	4,928.5	11.3	14.8	-143.07	235.5	-665.0	996.4	977.1	19.26	51.728	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - 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	-89.33	0.4	-30.2	30.2					
100.0	100.0	99.0	99.0	0.1	0.1	-89.33	0.4	-30.2	30.2	0.24	124.272			
200.0	200.0	199.0	199.0	0.3	0.3	-89.33	0.4	-30.2	30.2	0.59	51.065			
300.0	300.0	299.0	299.0	0.5	0.5	-89.33	0.4	-30.2	30.2	0.94	32.117 CC			
327.9	327.9	326.9	326.9	0.5	0.5	-143.04	0.4	-30.2	30.2	1.04	29.131			
400.0	400.0	399.0	399.0	0.6	0.6	-143.25	0.4	-30.2	30.4	1.29	23.561 ES			
500.0	500.0	498.7	498.7	0.8	0.8	-144.93	0.4	-30.4	32.0	1.64	19.517			
600.0	599.9	598.1	598.1	1.0	1.0	-146.72	1.3	-31.9	36.4	1.99	18.282			
700.0	699.8	697.3	697.2	1.2	1.2	-148.09	2.9	-34.9	43.7	2.34	18.663			
800.0	799.5	796.0	795.8	1.4	1.4	-148.98	5.3	-39.4	54.0	2.70	20.007			
900.0	899.2	894.3	893.9	1.6	1.6	-149.44	8.5	-45.4	67.0	3.06	21.905			
1,000.0	998.8	992.2	991.4	1.8	1.8	-149.20	12.5	-52.8	81.7	3.43	23.836			
1,100.0	1,098.4	1,089.6	1,088.3	2.0	2.0	-148.48	17.2	-61.6	97.8	3.80	25.724			
1,200.0	1,198.0	1,187.7	1,185.7	2.3	2.2	-147.63	22.6	-71.6	114.9	4.18	27.493			
1,300.0	1,297.6	1,286.2	1,283.6	2.5	2.5	-146.98	28.0	-81.7	132.2	4.56	28.965			
1,400.0	1,397.2	1,384.7	1,381.4	2.7	2.7	-146.47	33.4	-91.8	149.4	4.95	30.204			
1,500.0	1,496.8	1,483.2	1,479.2	2.9	3.0	-146.08	38.8	-101.8	166.6	5.33	31.259			
1,600.0	1,596.4	1,581.7	1,577.1	3.2	3.2	-145.75	44.2	-111.9	183.9	5.72	32.167			
1,700.0	1,696.0	1,680.2	1,674.9	3.4	3.5	-145.49	49.6	-122.0	201.1	6.10	32.958			
1,800.0	1,795.7	1,778.7	1,772.7	3.6	3.7	-145.26	55.0	-132.1	218.4	6.49	33.652			
1,900.0	1,895.3	1,877.2	1,870.5	3.9	4.0	-145.07	60.5	-142.1	235.7	6.88	34.265			
2,000.0	1,994.9	1,975.7	1,968.4	4.1	4.2	-144.90	65.9	-152.2	252.9	7.27	34.812			
2,100.0	2,094.5	2,074.2	2,066.2	4.3	4.5	-144.76	71.3	-162.3	270.2	7.65	35.301			
2,200.0	2,194.1	2,172.7	2,164.0	4.6	4.7	-144.63	76.7	-172.4	287.4	8.04	35.742			
2,300.0	2,293.7	2,271.2	2,261.9	4.8	5.0	-144.52	82.1	-182.4	304.7	8.43	36.142			
2,400.0	2,393.3	2,369.7	2,359.7	5.0	5.3	-144.42	87.5	-192.5	322.0	8.82	36.505			
2,500.0	2,492.9	2,468.2	2,457.5	5.3	5.5	-144.33	92.9	-202.6	339.3	9.21	36.837			
2,600.0	2,592.5	2,566.7	2,555.4	5.5	5.8	-144.24	98.3	-212.7	356.5	9.60	37.141			
2,700.0	2,692.1	2,665.2	2,653.2	5.7	6.0	-144.17	103.7	-222.7	373.8	9.99	37.422			
2,800.0	2,791.8	2,763.7	2,751.0	5.9	6.3	-144.10	109.1	-232.8	391.1	10.38	37.680			
2,900.0	2,891.4	2,862.2	2,848.8	6.2	6.6	-144.04	114.6	-242.9	408.3	10.77	37.920			
3,000.0	2,991.0	2,960.6	2,946.7	6.4	6.8	-143.98	120.0	-253.0	425.6	11.16	38.142			
3,100.0	3,090.6	3,059.1	3,044.5	6.6	7.1	-143.93	125.4	-263.0	442.9	11.55	38.349			
3,200.0	3,190.2	3,157.6	3,142.3	6.9	7.4	-143.88	130.8	-273.1	460.2	11.94	38.543			
3,300.0	3,289.8	3,256.1	3,240.2	7.1	7.6	-143.84	136.2	-283.2	477.4	12.33	38.724			
3,400.0	3,389.4	3,354.6	3,338.0	7.3	7.9	-143.79	141.6	-293.2	494.7	12.72	38.893			
3,500.0	3,489.0	3,453.1	3,435.8	7.6	8.1	-143.76	147.0	-303.3	512.0	13.11	39.053			
3,600.0	3,588.6	3,551.6	3,533.7	7.8	8.4	-143.72	152.4	-313.4	529.2	13.50	39.203			
3,700.0	3,688.2	3,650.1	3,631.5	8.0	8.7	-143.68	157.8	-323.5	546.5	13.89	39.344			
3,800.0	3,787.9	3,748.6	3,729.3	8.3	8.9	-143.65	163.2	-333.5	563.8	14.28	39.478			
3,900.0	3,887.5	3,847.1	3,827.1	8.5	9.2	-143.62	168.7	-343.6	581.1	14.67	39.604			
4,000.0	3,987.1	3,945.6	3,925.0	8.7	9.5	-143.59	174.1	-353.7	598.3	15.06	39.724			
4,100.0	4,086.7	4,044.1	4,022.8	9.0	9.7	-143.57	179.5	-363.8	615.6	15.45	39.837			
4,200.0	4,186.3	4,142.6	4,120.6	9.2	10.0	-143.54	184.9	-373.8	632.9	15.84	39.945			
4,300.0	4,285.9	4,241.1	4,218.5	9.4	10.2	-143.52	190.3	-383.9	650.2	16.23	40.048			
4,400.0	4,385.5	4,339.6	4,316.3	9.7	10.5	-143.49	195.7	-394.0	667.4	16.63	40.145			
4,500.0	4,485.1	4,438.1	4,414.1	9.9	10.8	-143.47	201.1	-404.1	684.7	17.02	40.238			
4,600.0	4,584.7	4,536.6	4,512.0	10.1	11.0	-143.45	206.5	-414.1	702.0	17.41	40.327			
4,700.0	4,684.3	4,635.1	4,609.8	10.4	11.3	-143.43	211.9	-424.2	719.3	17.80	40.412			
4,800.0	4,784.0	4,733.6	4,707.6	10.6	11.6	-143.41	217.3	-434.3	736.5	18.19	40.493			
4,900.0	4,883.6	4,832.1	4,805.5	10.8	11.8	-143.40	222.7	-444.4	753.8	18.58	40.571			
5,000.0	4,983.2	4,930.6	4,903.3	11.1	12.1	-143.38	228.2	-454.4	771.1	18.97	40.646			

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,082.8	5,029.1	5,001.1	11.3	12.4	-143.36	233.6	-464.5	788.4	769.0	19.36	40.717		
5,200.0	5,182.4	5,127.6	5,098.9	11.5	12.6	-143.35	239.0	-474.6	805.6	785.9	19.75	40.786		
5,300.0	5,282.0	5,226.1	5,196.8	11.8	12.9	-143.33	244.4	-484.7	822.9	802.8	20.14	40.852		
5,400.0	5,381.6	5,324.6	5,294.6	12.0	13.1	-143.32	249.8	-494.7	840.2	819.7	20.54	40.915		
5,500.0	5,481.2	5,431.9	5,401.2	12.2	13.4	-143.32	255.5	-505.4	857.2	836.2	20.94	40.934		
5,600.0	5,580.9	5,545.9	5,514.8	12.4	13.7	-143.42	260.6	-514.9	872.0	850.7	21.36	40.825		
5,700.0	5,680.7	5,660.7	5,629.3	12.6	13.9	-143.52	264.7	-522.4	883.8	862.0	21.77	40.605		
5,800.0	5,780.6	5,776.1	5,744.5	12.8	14.1	-143.58	267.7	-528.0	892.4	870.2	22.15	40.283		
5,900.0	5,880.5	5,891.9	5,860.2	13.0	14.3	-143.63	269.5	-531.5	897.8	875.3	22.52	39.862		
6,000.0	5,980.5	6,008.0	5,976.2	13.1	14.5	-143.64	270.3	-533.0	900.0	877.2	22.87	39.347		
6,100.0	6,080.5	6,111.2	6,079.5	13.3	14.6	-89.98	270.4	-533.0	900.1	876.9	23.20	38.800		
6,200.0	6,180.5	6,211.2	6,179.5	13.4	14.7	-89.98	270.4	-533.0	900.1	876.6	23.52	38.273		
6,300.0	6,280.5	6,311.2	6,279.5	13.5	14.8	-89.98	270.4	-533.0	900.1	876.3	23.84	37.758		
6,400.0	6,380.5	6,411.2	6,379.5	13.7	15.0	-89.98	270.4	-533.0	900.1	876.0	24.16	37.256		
6,464.5	6,445.0	6,475.7	6,444.0	13.8	15.1	90.04	270.4	-533.0	900.1	875.7	24.37	36.940		
6,500.0	6,480.5	6,511.2	6,479.5	13.8	15.1	90.02	270.4	-533.0	900.1	875.6	24.48	36.767		
6,519.9	6,500.4	6,531.2	6,499.4	13.8	15.1	90.06	270.4	-533.0	900.1	875.6	24.53	36.699		
6,600.0	6,579.9	6,610.6	6,578.9	13.9	15.2	90.64	270.4	-533.0	900.2	875.5	24.70	36.444		
6,700.0	6,676.1	6,711.3	6,679.4	13.9	15.3	92.00	265.2	-533.0	900.7	875.9	24.76	36.376		
6,800.0	6,766.1	6,816.9	6,782.1	13.8	15.3	93.38	241.7	-533.0	901.8	877.1	24.67	36.557		
6,900.0	6,847.3	6,927.2	6,883.0	13.8	15.3	94.68	197.3	-533.0	903.2	878.7	24.52	36.833		
7,000.0	6,917.1	7,042.5	6,977.3	13.8	15.2	95.85	131.3	-533.0	905.0	880.5	24.47	36.984		
7,100.0	6,973.4	7,162.7	7,059.4	13.9	15.3	96.85	43.9	-533.0	906.7	882.0	24.69	36.718		
7,200.0	7,014.6	7,287.0	7,123.3	14.3	15.5	97.61	-62.5	-533.0	908.2	882.8	25.34	35.842		
7,300.0	7,039.4	7,414.5	7,163.4	14.8	16.0	98.08	-183.2	-533.0	909.1	882.6	26.54	34.261		
7,400.0	7,047.0	7,541.6	7,176.0	15.5	16.8	98.22	-309.4	-533.0	909.4	881.2	28.25	32.195		
7,500.0	7,047.0	7,641.6	7,176.0	16.4	17.6	98.22	-409.4	-533.0	909.4	879.3	30.14	30.170		
7,600.0	7,047.0	7,741.6	7,176.0	17.4	18.6	98.22	-509.4	-533.0	909.4	877.2	32.29	28.166		
7,700.0	7,047.0	7,841.6	7,176.0	18.5	19.6	98.22	-609.4	-533.0	909.4	874.8	34.65	26.247		
7,800.0	7,047.0	7,941.6	7,176.0	19.7	20.8	98.22	-709.4	-533.0	909.4	872.3	37.19	24.457		
7,900.0	7,047.0	8,041.6	7,176.0	21.0	22.0	98.22	-809.4	-533.0	909.4	869.6	39.86	22.814		
8,000.0	7,047.0	8,141.6	7,176.0	22.4	23.3	98.22	-909.4	-533.0	909.4	866.8	42.66	21.321		
8,100.0	7,047.0	8,241.6	7,176.0	23.8	24.7	98.22	-1,009.4	-533.0	909.4	863.9	45.54	19.970		
8,200.0	7,047.0	8,341.6	7,176.0	25.2	26.1	98.22	-1,109.4	-533.0	909.4	860.9	48.50	18.750		
8,300.0	7,047.0	8,441.6	7,176.0	26.7	27.5	98.22	-1,209.4	-533.0	909.4	857.9	51.53	17.648		
8,400.0	7,047.0	8,541.6	7,176.0	28.2	29.0	98.22	-1,309.4	-533.0	909.4	854.8	54.61	16.653		
8,500.0	7,047.0	8,641.6	7,176.0	29.8	30.5	98.22	-1,409.4	-533.0	909.4	851.7	57.74	15.752		
8,600.0	7,047.0	8,741.6	7,176.0	31.3	32.0	98.22	-1,509.4	-533.0	909.4	848.5	60.90	14.934		
8,700.0	7,047.0	8,841.6	7,176.0	32.9	33.6	98.22	-1,609.4	-533.0	909.4	845.3	64.09	14.189		
8,800.0	7,047.0	8,941.6	7,176.0	34.5	35.1	98.22	-1,709.4	-533.0	909.4	842.1	67.31	13.510		
8,900.0	7,047.0	9,041.6	7,176.0	36.1	36.7	98.22	-1,809.4	-533.0	909.4	838.9	70.56	12.889		
9,000.0	7,047.0	9,141.6	7,176.0	37.8	38.3	98.22	-1,909.4	-533.0	909.4	835.6	73.83	12.318		
9,100.0	7,047.0	9,241.6	7,176.0	39.4	39.9	98.22	-2,009.4	-533.0	909.4	832.3	77.11	11.794		
9,200.0	7,047.0	9,341.6	7,176.0	41.0	41.6	98.22	-2,109.4	-533.0	909.4	829.0	80.41	11.310		
9,300.0	7,047.0	9,441.6	7,176.0	42.7	43.2	98.22	-2,209.4	-533.0	909.4	825.7	83.73	10.862		
9,400.0	7,047.0	9,541.6	7,176.0	44.4	44.9	98.22	-2,309.4	-533.0	909.4	822.4	87.05	10.447		
9,500.0	7,047.0	9,641.6	7,176.0	46.0	46.5	98.22	-2,409.4	-533.0	909.4	819.0	90.39	10.061		
9,600.0	7,047.0	9,741.6	7,176.0	47.7	48.2	98.22	-2,509.4	-533.0	909.4	815.7	93.74	9.702		
9,700.0	7,047.0	9,841.6	7,176.0	49.4	49.8	98.22	-2,609.4	-533.0	909.4	812.3	97.09	9.367		
9,800.0	7,047.0	9,941.6	7,176.0	51.1	51.5	98.22	-2,709.4	-533.0	909.4	809.0	100.46	9.053		
9,900.0	7,047.0	10,041.6	7,176.0	52.8	53.2	98.22	-2,809.4	-533.0	909.4	805.6	103.83	8.759		
10,000.0	7,047.0	10,141.6	7,176.0	54.5	54.9	98.22	-2,909.4	-533.0	909.4	802.2	107.21	8.483		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - 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)	
10,100.0	7,047.0	10,241.6	7,176.0	56.2	56.6	98.22	-3,009.4	-533.0	909.4	798.8	110.59	8.223		
10,200.0	7,047.0	10,341.6	7,176.0	57.9	58.2	98.22	-3,109.4	-533.0	909.4	795.4	113.98	7.979		
10,300.0	7,047.0	10,441.6	7,176.0	59.6	59.9	98.22	-3,209.4	-533.0	909.4	792.1	117.37	7.748		
10,400.0	7,047.0	10,541.6	7,176.0	61.3	61.6	98.22	-3,309.4	-533.0	909.4	788.7	120.77	7.530		
10,500.0	7,047.0	10,641.6	7,176.0	63.0	63.3	98.22	-3,409.4	-533.0	909.4	785.3	124.17	7.324		
10,600.0	7,047.0	10,741.6	7,176.0	64.7	65.0	98.22	-3,509.4	-533.0	909.4	781.8	127.58	7.128		
10,700.0	7,047.0	10,841.6	7,176.0	66.4	66.8	98.22	-3,609.4	-533.0	909.4	778.4	130.99	6.943		
10,800.0	7,047.0	10,941.6	7,176.0	68.1	68.5	98.22	-3,709.4	-533.0	909.4	775.0	134.40	6.766		
10,900.0	7,047.0	11,041.6	7,176.0	69.8	70.2	98.22	-3,809.4	-533.0	909.4	771.6	137.82	6.599		
11,000.0	7,047.0	11,141.6	7,176.0	71.6	71.9	98.22	-3,909.4	-533.0	909.4	768.2	141.24	6.439		
11,100.0	7,047.0	11,241.6	7,176.0	73.3	73.6	98.22	-4,009.4	-533.0	909.4	764.8	144.66	6.287		
11,200.0	7,047.0	11,341.6	7,176.0	75.0	75.3	98.22	-4,109.4	-533.0	909.4	761.3	148.08	6.141		
11,300.0	7,047.0	11,441.6	7,176.0	76.7	77.0	98.22	-4,209.4	-533.0	909.4	757.9	151.51	6.003		
11,400.0	7,047.0	11,541.6	7,176.0	78.5	78.8	98.22	-4,309.4	-533.0	909.4	754.5	154.93	5.870		
11,500.0	7,047.0	11,641.6	7,176.0	80.2	80.5	98.22	-4,409.4	-533.0	909.4	751.1	158.36	5.743		
11,600.0	7,047.0	11,741.6	7,176.0	81.9	82.2	98.22	-4,509.4	-533.0	909.4	747.6	161.80	5.621		
11,634.2	7,047.0	11,775.8	7,176.0	82.5	82.8	98.22	-4,543.6	-533.0	909.4	746.5	162.97	5.580		
11,646.6	7,047.0	11,783.1	7,176.0	82.7	82.9	98.22	-4,550.9	-533.0	909.4	746.1	163.31	5.569 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.14	0.3	-22.7	22.7					
100.0	100.0	99.0	99.0	0.1	0.1	-89.14	0.3	-22.7	22.7	22.4	0.24	93.208		
200.0	200.0	199.0	199.0	0.3	0.3	-89.14	0.3	-22.7	22.7	22.1	0.59	38.301		
300.0	300.0	299.0	299.0	0.5	0.5	-89.14	0.3	-22.7	22.7	21.7	0.94	24.089	CC	
327.9	327.9	326.9	326.9	0.5	0.5	-142.86	0.3	-22.7	22.7	21.7	1.04	21.853		
400.0	400.0	399.0	399.0	0.6	0.6	-143.14	0.3	-22.7	22.8	21.5	1.29	17.705	ES	
500.0	500.0	499.0	499.0	0.8	0.8	-145.60	0.3	-22.7	24.3	22.6	1.64	14.797		
600.0	599.9	598.7	598.7	1.0	1.0	-148.21	1.0	-23.2	27.6	25.7	1.99	13.898		
700.0	699.8	698.2	698.2	1.2	1.2	-149.14	3.1	-24.7	33.5	31.1	2.34	14.288		
800.0	799.5	797.5	797.4	1.4	1.4	-148.93	6.5	-27.3	41.7	39.0	2.70	15.425		
900.0	899.2	896.7	896.4	1.6	1.5	-148.10	11.3	-30.8	52.1	49.1	3.07	16.970		
1,000.0	998.8	996.1	995.5	1.8	1.7	-147.29	16.6	-34.7	63.1	59.7	3.45	18.301		
1,100.0	1,098.4	1,095.5	1,094.7	2.0	1.9	-146.72	21.8	-38.6	74.1	70.2	3.83	19.356		
1,200.0	1,198.0	1,194.9	1,193.9	2.3	2.1	-146.30	27.0	-42.5	85.1	80.8	4.21	20.210		
1,300.0	1,297.6	1,294.2	1,293.1	2.5	2.3	-145.97	32.2	-46.3	96.0	91.4	4.59	20.914		
1,400.0	1,397.2	1,393.6	1,392.3	2.7	2.5	-145.72	37.5	-50.2	107.0	102.1	4.98	21.505		
1,500.0	1,496.8	1,493.0	1,491.4	2.9	2.7	-145.51	42.7	-54.1	118.0	112.7	5.36	22.006		
1,600.0	1,596.4	1,592.4	1,590.6	3.2	2.9	-145.33	47.9	-58.0	129.0	123.3	5.75	22.437		
1,700.0	1,696.0	1,691.8	1,689.8	3.4	3.1	-145.18	53.1	-61.8	140.0	133.9	6.14	22.810		
1,800.0	1,795.7	1,791.2	1,789.0	3.6	3.3	-145.06	58.4	-65.7	151.0	144.5	6.53	23.138		
1,900.0	1,895.3	1,890.6	1,888.2	3.9	3.5	-144.95	63.6	-69.6	162.0	155.1	6.91	23.427		
2,000.0	1,994.9	1,990.0	1,987.3	4.1	3.8	-144.86	68.8	-73.5	173.0	165.7	7.30	23.684		
2,100.0	2,094.5	2,089.4	2,086.5	4.3	4.0	-144.77	74.0	-77.4	184.0	176.3	7.69	23.914		
2,200.0	2,194.1	2,188.8	2,185.7	4.6	4.2	-144.70	79.3	-81.2	195.0	186.9	8.08	24.122		
2,300.0	2,293.7	2,288.2	2,284.9	4.8	4.4	-144.63	84.5	-85.1	206.0	197.5	8.47	24.309		
2,400.0	2,393.3	2,387.6	2,384.1	5.0	4.6	-144.57	89.7	-89.0	217.0	208.1	8.86	24.479		
2,500.0	2,492.9	2,487.0	2,483.2	5.3	4.8	-144.52	94.9	-92.9	227.9	218.7	9.25	24.634		
2,600.0	2,592.5	2,586.4	2,582.4	5.5	5.0	-144.47	100.2	-96.8	238.9	229.3	9.64	24.777		
2,700.0	2,692.1	2,685.8	2,681.6	5.7	5.2	-144.42	105.4	-100.6	249.9	239.9	10.03	24.908		
2,800.0	2,791.8	2,785.2	2,780.8	5.9	5.4	-144.38	110.6	-104.5	260.9	250.5	10.43	25.029		
2,900.0	2,891.4	2,884.5	2,880.0	6.2	5.6	-144.35	115.8	-108.4	271.9	261.1	10.82	25.140		
3,000.0	2,991.0	2,983.9	2,979.1	6.4	5.8	-144.31	121.1	-112.3	282.9	271.7	11.21	25.244		
3,100.0	3,090.6	3,083.3	3,078.3	6.6	6.0	-144.28	126.3	-116.1	293.9	282.3	11.60	25.341		
3,200.0	3,190.2	3,182.7	3,177.5	6.9	6.2	-144.25	131.5	-120.0	304.9	292.9	11.99	25.431		
3,300.0	3,289.8	3,282.1	3,276.7	7.1	6.4	-144.22	136.7	-123.9	315.9	303.5	12.38	25.515		
3,400.0	3,389.4	3,381.5	3,375.9	7.3	6.6	-144.20	142.0	-127.8	326.9	314.1	12.77	25.594		
3,500.0	3,489.0	3,480.9	3,475.0	7.6	6.8	-144.17	147.2	-131.7	337.9	324.7	13.16	25.668		
3,600.0	3,588.6	3,580.3	3,574.2	7.8	7.0	-144.15	152.4	-135.5	348.9	335.3	13.56	25.738		
3,700.0	3,688.2	3,679.7	3,673.4	8.0	7.3	-144.13	157.6	-139.4	359.9	345.9	13.95	25.804		
3,800.0	3,787.9	3,779.1	3,772.6	8.3	7.5	-144.11	162.9	-143.3	370.9	356.5	14.34	25.866		
3,900.0	3,887.5	3,878.5	3,871.8	8.5	7.7	-144.09	168.1	-147.2	381.9	367.2	14.73	25.924		
4,000.0	3,987.1	3,977.9	3,970.9	8.7	7.9	-144.07	173.3	-151.1	392.9	377.8	15.12	25.980		
4,100.0	4,086.7	4,077.3	4,070.1	9.0	8.1	-144.06	178.6	-154.9	403.9	388.4	15.51	26.033		
4,200.0	4,186.3	4,176.7	4,169.3	9.2	8.3	-144.04	183.8	-158.8	414.9	399.0	15.91	26.083		
4,300.0	4,285.9	4,276.1	4,268.5	9.4	8.5	-144.03	189.0	-162.7	425.9	409.6	16.30	26.130		
4,400.0	4,385.5	4,375.4	4,367.7	9.7	8.7	-144.01	194.2	-166.6	436.9	420.2	16.69	26.176		
4,500.0	4,485.1	4,474.8	4,466.9	9.9	8.9	-144.00	199.5	-170.4	447.9	430.8	17.08	26.219		
4,600.0	4,584.7	4,574.2	4,566.0	10.1	9.1	-143.98	204.7	-174.3	458.9	441.4	17.47	26.260		
4,700.0	4,684.3	4,673.6	4,665.2	10.4	9.3	-143.97	209.9	-178.2	469.8	452.0	17.87	26.299		
4,800.0	4,784.0	4,773.0	4,764.4	10.6	9.5	-143.96	215.1	-182.1	480.8	462.6	18.26	26.337		
4,900.0	4,883.6	4,872.4	4,863.6	10.8	9.7	-143.95	220.4	-186.0	491.8	473.2	18.65	26.373		
5,000.0	4,983.2	4,971.8	4,962.8	11.1	9.9	-143.94	225.6	-189.8	502.8	483.8	19.04	26.408		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - 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	5,082.8	5,071.2	5,061.9	11.3	10.2	-143.93	230.8	-193.7	513.8	494.4	19.43	26.441		
5,200.0	5,182.4	5,170.6	5,161.1	11.5	10.4	-143.92	236.0	-197.6	524.8	505.0	19.83	26.472		
5,300.0	5,282.0	5,270.0	5,260.3	11.8	10.6	-143.91	241.3	-201.5	535.8	515.6	20.22	26.503		
5,400.0	5,381.6	5,369.4	5,359.5	12.0	10.8	-143.90	246.5	-205.4	546.8	526.2	20.61	26.532		
5,500.0	5,481.2	5,468.8	5,458.7	12.2	11.0	-143.89	251.7	-209.2	557.8	536.8	21.00	26.560		
5,600.0	5,580.9	5,568.2	5,557.9	12.4	11.2	-143.90	256.9	-213.1	568.3	546.9	21.40	26.558		
5,700.0	5,680.7	5,669.9	5,659.3	12.6	11.4	-143.81	262.2	-217.0	577.3	555.5	21.79	26.497		
5,800.0	5,780.6	5,776.0	5,765.3	12.8	11.6	-143.72	266.5	-220.2	584.1	561.9	22.16	26.353		
5,900.0	5,880.5	5,882.4	5,871.7	13.0	11.8	-143.66	269.2	-222.2	588.4	565.8	22.52	26.128		
6,000.0	5,980.5	5,988.9	5,978.2	13.1	11.9	-143.63	270.3	-223.0	590.1	567.3	22.85	25.824		
6,100.0	6,080.5	6,090.3	6,079.5	13.3	12.1	-89.97	270.3	-223.1	590.2	567.0	23.17	25.470		
6,200.0	6,180.5	6,190.3	6,179.5	13.4	12.3	-89.97	270.3	-223.1	590.2	566.7	23.49	25.123		
6,300.0	6,280.5	6,290.3	6,279.5	13.5	12.4	-89.97	270.3	-223.1	590.2	566.3	23.81	24.785		
6,400.0	6,380.5	6,390.3	6,379.5	13.7	12.6	-89.97	270.3	-223.1	590.2	566.0	24.13	24.456		
6,458.8	6,439.3	6,449.1	6,438.3	13.8	12.7	90.05	270.3	-223.1	590.2	565.8	24.32	24.265		
6,500.0	6,480.5	6,490.2	6,479.4	13.8	12.7	90.03	270.3	-223.1	590.2	565.7	24.45	24.136		
6,600.0	6,579.9	6,588.4	6,577.1	13.9	12.8	90.03	260.8	-223.2	590.3	565.7	24.59	24.007		
6,700.0	6,676.1	6,686.8	6,671.8	13.9	12.8	90.03	234.8	-223.7	590.8	566.2	24.55	24.065		
6,800.0	6,766.1	6,785.2	6,760.7	13.8	12.7	90.03	192.9	-224.4	591.5	567.1	24.42	24.228		
6,900.0	6,847.3	6,883.8	6,841.3	13.8	12.7	90.02	136.3	-225.4	592.6	568.3	24.30	24.382		
7,000.0	6,917.1	6,982.5	6,911.1	13.8	12.7	90.02	66.7	-226.6	593.8	569.5	24.35	24.387		
7,100.0	6,973.4	7,081.5	6,968.1	13.9	12.8	90.01	-14.1	-228.1	595.2	570.6	24.69	24.112		
7,200.0	7,014.6	7,180.8	7,010.4	14.3	13.2	90.01	-103.8	-229.7	596.8	571.4	25.41	23.483		
7,300.0	7,039.4	7,280.3	7,036.7	14.8	13.7	90.00	-199.6	-231.3	598.5	572.0	26.57	22.523		
7,400.0	7,047.0	7,380.1	7,046.0	15.5	14.5	90.00	-298.8	-233.1	600.3	572.1	28.13	21.338		
7,500.0	7,047.0	7,480.1	7,046.0	16.4	15.4	90.00	-398.8	-234.9	602.0	572.0	30.04	20.042		
7,600.0	7,047.0	7,580.1	7,046.0	17.4	16.5	90.00	-498.8	-236.6	603.8	571.6	32.21	18.749		
7,700.0	7,047.0	7,680.1	7,046.0	18.5	17.6	90.00	-598.8	-238.4	605.6	571.0	34.59	17.506		
7,800.0	7,047.0	7,780.1	7,046.0	19.7	18.9	90.00	-698.7	-240.1	607.3	570.2	37.16	16.345		
7,900.0	7,047.0	7,880.0	7,046.0	21.0	20.2	90.00	-798.7	-241.9	609.1	569.2	39.87	15.278		
8,000.0	7,047.0	7,980.0	7,046.0	22.4	21.6	90.00	-898.7	-243.7	610.9	568.2	42.69	14.308		
8,100.0	7,047.0	8,080.0	7,046.0	23.8	23.1	90.00	-998.6	-245.4	612.6	567.0	45.61	13.431		
8,200.0	7,047.0	8,180.0	7,046.0	25.2	24.5	90.00	-1,098.6	-247.2	614.4	565.8	48.61	12.639		
8,300.0	7,047.0	8,280.0	7,046.0	26.7	26.1	90.00	-1,198.6	-248.9	616.1	564.5	51.67	11.924		
8,400.0	7,047.0	8,380.0	7,046.0	28.2	27.6	90.00	-1,298.5	-250.7	617.9	563.1	54.79	11.278		
8,500.0	7,047.0	8,479.9	7,046.0	29.8	29.2	90.00	-1,398.5	-252.5	619.7	561.7	57.95	10.693		
8,600.0	7,047.0	8,579.9	7,046.0	31.3	30.8	90.00	-1,498.5	-254.2	621.4	560.3	61.15	10.162		
8,700.0	7,047.0	8,679.9	7,046.0	32.9	32.4	90.00	-1,598.4	-256.0	623.2	558.8	64.38	9.680		
8,800.0	7,047.0	8,779.9	7,046.0	34.5	34.0	90.00	-1,698.4	-257.8	624.9	557.3	67.64	9.239		
8,900.0	7,047.0	8,879.9	7,046.0	36.1	35.6	90.00	-1,798.4	-259.5	626.7	555.8	70.92	8.837		
9,000.0	7,047.0	8,979.9	7,046.0	37.8	37.3	90.00	-1,898.4	-261.3	628.5	554.2	74.22	8.467		
9,100.0	7,047.0	9,079.8	7,046.0	39.4	38.9	90.00	-1,998.3	-263.0	630.2	552.7	77.55	8.127		
9,200.0	7,047.0	9,179.8	7,046.0	41.0	40.6	90.00	-2,098.3	-264.8	632.0	551.1	80.88	7.814		
9,300.0	7,047.0	9,279.8	7,046.0	42.7	42.2	90.00	-2,198.3	-266.6	633.8	549.5	84.23	7.524		
9,400.0	7,047.0	9,379.8	7,046.0	44.4	43.9	90.00	-2,298.2	-268.3	635.5	547.9	87.60	7.255		
9,500.0	7,047.0	9,479.8	7,046.0	46.0	45.6	90.00	-2,398.2	-270.1	637.3	546.3	90.97	7.005		
9,600.0	7,047.0	9,579.8	7,046.0	47.7	47.3	90.00	-2,498.2	-271.9	639.0	544.7	94.35	6.773		
9,700.0	7,047.0	9,679.8	7,046.0	49.4	49.0	90.00	-2,598.1	-273.6	640.8	543.1	97.75	6.556		
9,800.0	7,047.0	9,779.7	7,046.0	51.1	50.7	90.00	-2,698.1	-275.4	642.6	541.4	101.15	6.353		
9,900.0	7,047.0	9,879.7	7,046.0	52.8	52.4	90.00	-2,798.1	-277.1	644.3	539.8	104.55	6.163		
10,000.0	7,047.0	9,979.7	7,046.0	54.5	54.1	90.00	-2,898.0	-278.9	646.1	538.1	107.97	5.984		
10,100.0	7,047.0	10,079.7	7,046.0	56.2	55.8	90.00	-2,998.0	-280.7	647.8	536.5	111.39	5.816		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - 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	7,047.0	10,179.7	7,046.0	57.9	57.5	90.00	-3,098.0	-282.4	649.6	534.8	114.81	5.658		
10,300.0	7,047.0	10,279.7	7,046.0	59.6	59.2	90.00	-3,197.9	-284.2	651.4	533.1	118.24	5.509		
10,400.0	7,047.0	10,379.6	7,046.0	61.3	60.9	90.00	-3,297.9	-285.9	653.1	531.5	121.68	5.368		
10,500.0	7,047.0	10,479.6	7,046.0	63.0	62.6	90.00	-3,397.9	-287.7	654.9	529.8	125.12	5.234		
10,600.0	7,047.0	10,579.6	7,046.0	64.7	64.3	90.00	-3,497.9	-289.5	656.7	528.1	128.56	5.108		
10,700.0	7,047.0	10,679.6	7,046.0	66.4	66.1	90.00	-3,597.8	-291.2	658.4	526.4	132.00	4.988		
10,800.0	7,047.0	10,779.6	7,046.0	68.1	67.8	90.00	-3,697.8	-293.0	660.2	524.7	135.45	4.874		
10,900.0	7,047.0	10,879.6	7,046.0	69.8	69.5	90.00	-3,797.8	-294.8	661.9	523.0	138.90	4.765		
11,000.0	7,047.0	10,979.6	7,046.0	71.6	71.2	90.00	-3,897.7	-296.5	663.7	521.3	142.36	4.662		
11,100.0	7,047.0	11,079.5	7,046.0	73.3	73.0	90.00	-3,997.7	-298.3	665.5	519.7	145.82	4.564		
11,200.0	7,047.0	11,179.5	7,046.0	75.0	74.7	90.00	-4,097.7	-300.0	667.2	518.0	149.27	4.470		
11,300.0	7,047.0	11,279.5	7,046.0	76.7	76.4	90.00	-4,197.6	-301.8	669.0	516.3	152.74	4.380		
11,400.0	7,047.0	11,379.5	7,046.0	78.5	78.2	90.00	-4,297.6	-303.6	670.8	514.6	156.20	4.294		
11,500.0	7,047.0	11,479.5	7,046.0	80.2	79.9	90.00	-4,397.6	-305.3	672.5	512.8	159.67	4.212		
11,600.0	7,047.0	11,579.5	7,046.0	81.9	81.6	90.00	-4,497.5	-307.1	674.3	511.1	163.13	4.133		
11,646.6	7,047.0	11,626.0	7,046.0	82.7	82.4	90.00	-4,544.1	-307.9	675.1	510.3	164.75	4.098 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - HZ - 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	-89.90	0.0	-15.1	15.1					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-15.1	15.1	14.9	0.24	62.132		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-15.1	15.1	14.5	0.59	25.531		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-15.1	15.1	14.2	0.94	16.058 CC		
328.0	328.0	327.0	327.0	0.5	0.5	-143.65	0.0	-15.1	15.1	14.1	1.04	14.573		
400.0	400.0	399.0	399.0	0.6	0.6	-144.06	0.0	-15.1	15.3	14.0	1.29	11.848 ES		
500.0	500.0	499.0	499.0	0.8	0.8	-146.85	0.2	-15.2	16.8	15.1	1.64	10.228		
600.0	599.9	598.8	598.8	1.0	1.0	-147.45	1.9	-15.6	20.0	18.0	1.99	10.054		
700.0	699.8	698.6	698.6	1.2	1.2	-146.06	5.3	-16.4	25.1	22.7	2.35	10.667		
800.0	799.5	798.3	798.1	1.4	1.4	-144.16	10.1	-17.6	31.9	29.2	2.72	11.736		
900.0	899.2	898.0	897.7	1.6	1.5	-143.93	15.2	-18.9	40.1	37.0	3.09	12.960		
1,000.0	998.8	997.7	997.2	1.8	1.7	-143.99	20.4	-20.2	48.5	45.0	3.47	13.967		
1,100.0	1,098.4	1,097.3	1,096.7	2.0	1.9	-144.03	25.5	-21.5	56.9	53.0	3.85	14.766		
1,200.0	1,198.0	1,197.0	1,196.2	2.3	2.1	-144.06	30.6	-22.8	65.3	61.0	4.23	15.414		
1,300.0	1,297.6	1,296.6	1,295.7	2.5	2.3	-144.08	35.7	-24.1	73.7	69.0	4.62	15.949		
1,400.0	1,397.2	1,396.2	1,395.2	2.7	2.5	-144.10	40.9	-25.4	82.1	77.1	5.00	16.398		
1,500.0	1,496.8	1,495.9	1,494.7	2.9	2.7	-144.11	46.0	-26.7	90.5	85.1	5.39	16.781		
1,600.0	1,596.4	1,595.5	1,594.2	3.2	2.9	-144.13	51.1	-28.0	98.9	93.1	5.78	17.110		
1,700.0	1,696.0	1,695.2	1,693.7	3.4	3.1	-144.14	56.2	-29.3	107.3	101.1	6.17	17.396		
1,800.0	1,795.7	1,794.8	1,793.2	3.6	3.3	-144.14	61.3	-30.5	115.7	109.1	6.55	17.647		
1,900.0	1,895.3	1,894.5	1,892.7	3.9	3.5	-144.15	66.5	-31.8	124.1	117.1	6.94	17.869		
2,000.0	1,994.9	1,994.1	1,992.2	4.1	3.7	-144.16	71.6	-33.1	132.5	125.1	7.33	18.067		
2,100.0	2,094.5	2,093.8	2,091.7	4.3	3.9	-144.16	76.7	-34.4	140.9	133.1	7.72	18.244		
2,200.0	2,194.1	2,193.4	2,191.3	4.6	4.1	-144.17	81.8	-35.7	149.3	141.2	8.11	18.404		
2,300.0	2,293.7	2,293.1	2,290.8	4.8	4.3	-144.17	86.9	-37.0	157.7	149.2	8.50	18.548		
2,400.0	2,393.3	2,392.7	2,390.3	5.0	4.5	-144.18	92.1	-38.3	166.1	157.2	8.89	18.680		
2,500.0	2,492.9	2,492.4	2,489.8	5.3	4.7	-144.18	97.2	-39.6	174.5	165.2	9.28	18.800		
2,600.0	2,592.5	2,592.0	2,589.3	5.5	4.9	-144.19	102.3	-40.9	182.9	173.2	9.67	18.910		
2,700.0	2,692.1	2,691.6	2,688.8	5.7	5.0	-144.19	107.4	-42.2	191.3	181.2	10.06	19.011		
2,800.0	2,791.8	2,791.3	2,788.3	5.9	5.2	-144.19	112.5	-43.4	199.7	189.2	10.45	19.105		
2,900.0	2,891.4	2,890.9	2,887.8	6.2	5.4	-144.19	117.7	-44.7	208.1	197.2	10.84	19.192		
3,000.0	2,991.0	2,990.6	2,987.3	6.4	5.6	-144.20	122.8	-46.0	216.5	205.2	11.23	19.272		
3,100.0	3,090.6	3,090.2	3,086.8	6.6	5.8	-144.20	127.9	-47.3	224.9	213.2	11.62	19.347		
3,200.0	3,190.2	3,189.9	3,186.3	6.9	6.0	-144.20	133.0	-48.6	233.3	221.3	12.01	19.417		
3,300.0	3,289.8	3,289.5	3,285.8	7.1	6.2	-144.20	138.2	-49.9	241.7	229.3	12.40	19.483		
3,400.0	3,389.4	3,389.2	3,385.3	7.3	6.4	-144.21	143.3	-51.2	250.1	237.3	12.80	19.544		
3,500.0	3,489.0	3,488.8	3,484.8	7.6	6.6	-144.21	148.4	-52.5	258.5	245.3	13.19	19.602		
3,600.0	3,588.6	3,588.5	3,584.3	7.8	6.8	-144.21	153.5	-53.8	266.9	253.3	13.58	19.656		
3,700.0	3,688.2	3,688.1	3,683.8	8.0	7.0	-144.21	158.6	-55.1	275.3	261.3	13.97	19.707		
3,800.0	3,787.9	3,787.8	3,783.4	8.3	7.2	-144.21	163.8	-56.3	283.7	269.3	14.36	19.756		
3,900.0	3,887.5	3,887.4	3,882.9	8.5	7.4	-144.21	168.9	-57.6	292.1	277.3	14.75	19.801		
4,000.0	3,987.1	3,987.1	3,982.4	8.7	7.6	-144.21	174.0	-58.9	300.5	285.3	15.14	19.845		
4,100.0	4,086.7	4,086.7	4,081.9	9.0	7.8	-144.22	179.1	-60.2	308.9	293.3	15.53	19.886		
4,200.0	4,186.3	4,186.3	4,181.4	9.2	8.0	-144.22	184.2	-61.5	317.3	301.4	15.92	19.925		
4,300.0	4,285.9	4,286.0	4,280.9	9.4	8.2	-144.22	189.4	-62.8	325.7	309.4	16.31	19.962		
4,400.0	4,385.5	4,385.6	4,380.4	9.7	8.4	-144.22	194.5	-64.1	334.1	317.4	16.71	19.997		
4,500.0	4,485.1	4,485.3	4,479.9	9.9	8.6	-144.22	199.6	-65.4	342.5	325.4	17.10	20.031		
4,600.0	4,584.7	4,584.9	4,579.4	10.1	8.8	-144.22	204.7	-66.7	350.9	333.4	17.49	20.063		
4,700.0	4,684.3	4,684.6	4,678.9	10.4	9.0	-144.22	209.9	-68.0	359.3	341.4	17.88	20.094		
4,800.0	4,784.0	4,784.2	4,778.4	10.6	9.2	-144.22	215.0	-69.2	367.7	349.4	18.27	20.124		
4,900.0	4,883.6	4,883.9	4,877.9	10.8	9.4	-144.22	220.1	-70.5	376.1	357.4	18.66	20.152		
5,000.0	4,983.2	4,983.5	4,977.4	11.1	9.6	-144.22	225.2	-71.8	384.5	365.4	19.05	20.179		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - HZ - 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	5,082.8	5,083.2	5,076.9	11.3	9.8	-144.22	230.3	-73.1	392.9	373.4	19.45	20.205		
5,200.0	5,182.4	5,182.8	5,176.4	11.5	10.0	-144.23	235.5	-74.4	401.3	381.4	19.84	20.230		
5,300.0	5,282.0	5,282.5	5,276.0	11.8	10.2	-144.23	240.6	-75.7	409.7	389.5	20.23	20.253		
5,400.0	5,381.6	5,382.1	5,375.5	12.0	10.4	-144.23	245.7	-77.0	418.1	397.5	20.62	20.276		
5,500.0	5,481.2	5,481.8	5,475.0	12.2	10.5	-144.23	250.8	-78.3	426.5	405.5	21.01	20.299		
5,600.0	5,580.9	5,581.4	5,574.5	12.4	10.7	-144.22	255.9	-79.6	434.4	413.0	21.40	20.293		
5,700.0	5,680.7	5,681.2	5,674.2	12.6	10.9	-144.07	261.1	-80.9	440.8	419.0	21.79	20.227		
5,800.0	5,780.6	5,782.5	5,775.4	12.8	11.1	-143.86	265.8	-82.0	445.8	423.6	22.17	20.108		
5,900.0	5,880.5	5,884.4	5,877.2	13.0	11.3	-143.72	268.7	-82.8	448.9	426.4	22.52	19.933		
6,000.0	5,980.5	5,986.4	5,979.1	13.1	11.5	-143.66	270.0	-83.1	450.2	427.3	22.84	19.707		
6,100.0	6,080.5	6,086.8	6,079.5	13.3	11.6	-90.00	270.0	-83.1	450.2	427.0	23.16	19.437		
6,200.0	6,180.5	6,186.8	6,179.5	13.4	11.8	-90.00	270.0	-83.1	450.2	426.7	23.48	19.173		
6,300.0	6,280.5	6,286.8	6,279.5	13.5	11.9	-90.00	270.0	-83.1	450.2	426.4	23.80	18.915		
6,400.0	6,380.5	6,386.8	6,379.5	13.7	12.1	-90.00	270.0	-83.1	450.2	426.1	24.12	18.663		
6,424.7	6,405.3	6,411.5	6,404.2	13.7	12.1	89.95	269.6	-83.1	450.2	426.0	24.19	18.611		
6,500.0	6,480.5	6,485.8	6,478.1	13.8	12.2	88.97	261.9	-83.1	450.3	426.0	24.32	18.512		
6,600.0	6,579.9	6,582.0	6,571.1	13.9	12.2	87.04	237.9	-83.1	450.8	426.5	24.31	18.542		
6,700.0	6,676.1	6,675.9	6,656.8	13.9	12.1	85.22	199.8	-83.1	451.8	427.6	24.18	18.683		
6,800.0	6,766.1	6,767.8	6,733.6	13.8	12.0	83.55	149.5	-83.1	453.1	429.1	24.03	18.857		
6,900.0	6,847.3	6,858.1	6,800.3	13.8	12.0	82.08	88.7	-83.1	454.6	430.6	23.96	18.975		
7,000.0	6,917.1	6,947.0	6,855.8	13.8	12.1	80.83	19.3	-83.1	456.1	432.0	24.07	18.948		
7,100.0	6,973.4	7,034.9	6,899.4	13.9	12.4	79.84	-56.8	-83.1	457.4	432.9	24.46	18.699		
7,200.0	7,014.6	7,122.0	6,930.7	14.3	12.8	79.13	-138.0	-83.1	458.4	433.3	25.18	18.208		
7,300.0	7,039.4	7,208.6	6,949.3	14.8	13.3	78.70	-222.5	-83.1	459.1	432.9	26.24	17.497		
7,400.0	7,047.0	7,295.8	6,955.0	15.5	14.0	78.57	-309.4	-83.1	459.3	431.7	27.64	16.618		
7,500.0	7,047.0	7,395.8	6,955.0	16.4	15.0	78.57	-409.4	-83.1	459.3	429.8	29.53	15.554		
7,600.0	7,047.0	7,495.8	6,955.0	17.4	16.1	78.57	-509.4	-83.1	459.3	427.6	31.68	14.499		
7,700.0	7,047.0	7,595.8	6,955.0	18.5	17.3	78.57	-609.4	-83.1	459.3	425.3	34.04	13.493		
7,800.0	7,047.0	7,695.8	6,955.0	19.7	18.6	78.57	-709.4	-83.1	459.3	422.7	36.57	12.559		
7,900.0	7,047.0	7,795.8	6,955.0	21.0	19.9	78.57	-809.4	-83.1	459.3	420.1	39.24	11.704		
8,000.0	7,047.0	7,895.8	6,955.0	22.4	21.3	78.57	-909.4	-83.1	459.3	417.3	42.03	10.929		
8,100.0	7,047.0	7,995.8	6,955.0	23.8	22.8	78.57	-1,009.4	-83.1	459.3	414.4	44.90	10.230		
8,200.0	7,047.0	8,095.8	6,955.0	25.2	24.3	78.57	-1,109.4	-83.1	459.3	411.5	47.85	9.599		
8,300.0	7,047.0	8,195.8	6,955.0	26.7	25.9	78.57	-1,209.4	-83.1	459.3	408.4	50.86	9.031		
8,400.0	7,047.0	8,295.8	6,955.0	28.2	27.4	78.57	-1,309.4	-83.1	459.3	405.4	53.92	8.518		
8,500.0	7,047.0	8,395.8	6,955.0	29.8	29.0	78.57	-1,409.4	-83.1	459.3	402.3	57.02	8.054		
8,600.0	7,047.0	8,495.8	6,955.0	31.3	30.6	78.57	-1,509.4	-83.1	459.3	399.1	60.17	7.634		
8,700.0	7,047.0	8,595.8	6,955.0	32.9	32.2	78.57	-1,609.4	-83.1	459.3	396.0	63.34	7.252		
8,800.0	7,047.0	8,695.8	6,955.0	34.5	33.9	78.57	-1,709.4	-83.1	459.3	392.8	66.54	6.903		
8,900.0	7,047.0	8,795.8	6,955.0	36.1	35.5	78.57	-1,809.4	-83.1	459.3	389.5	69.76	6.584		
9,000.0	7,047.0	8,895.8	6,955.0	37.8	37.2	78.57	-1,909.4	-83.1	459.3	386.3	73.00	6.292		
9,100.0	7,047.0	8,995.8	6,955.0	39.4	38.8	78.57	-2,009.4	-83.1	459.3	383.0	76.26	6.023		
9,200.0	7,047.0	9,095.8	6,955.0	41.0	40.5	78.57	-2,109.4	-83.1	459.3	379.8	79.53	5.775		
9,300.0	7,047.0	9,195.8	6,955.0	42.7	42.2	78.57	-2,209.4	-83.1	459.3	376.5	82.82	5.546		
9,400.0	7,047.0	9,295.8	6,955.0	44.4	43.8	78.57	-2,309.4	-83.1	459.3	373.2	86.12	5.333		
9,500.0	7,047.0	9,395.8	6,955.0	46.0	45.5	78.57	-2,409.4	-83.1	459.3	369.9	89.43	5.136		
9,600.0	7,047.0	9,495.8	6,955.0	47.7	47.2	78.57	-2,509.4	-83.1	459.3	366.5	92.75	4.952		
9,700.0	7,047.0	9,595.8	6,955.0	49.4	48.9	78.57	-2,609.4	-83.1	459.3	363.2	96.08	4.781		
9,800.0	7,047.0	9,695.8	6,955.0	51.1	50.6	78.57	-2,709.4	-83.1	459.3	359.9	99.41	4.620		
9,900.0	7,047.0	9,795.8	6,955.0	52.8	52.3	78.57	-2,809.4	-83.1	459.3	356.5	102.75	4.470		
10,000.0	7,047.0	9,895.8	6,955.0	54.5	54.0	78.57	-2,909.4	-83.1	459.3	353.2	106.10	4.329		
10,100.0	7,047.0	9,995.8	6,955.0	56.2	55.8	78.57	-3,009.4	-83.1	459.3	349.8	109.46	4.196		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - HZ - 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	7,047.0	10,095.8	6,955.0	57.9	57.5	78.57	-3,109.4	-83.1	459.3	346.5	112.82	4.071		
10,300.0	7,047.0	10,195.8	6,955.0	59.6	59.2	78.57	-3,209.4	-83.1	459.3	343.1	116.18	3.953		
10,400.0	7,047.0	10,295.8	6,955.0	61.3	60.9	78.57	-3,309.4	-83.1	459.3	339.7	119.55	3.842		
10,500.0	7,047.0	10,395.8	6,955.0	63.0	62.6	78.57	-3,409.4	-83.1	459.3	336.4	122.92	3.737		
10,600.0	7,047.0	10,495.8	6,955.0	64.7	64.3	78.57	-3,509.4	-83.1	459.3	333.0	126.30	3.637		
10,700.0	7,047.0	10,595.8	6,955.0	66.4	66.1	78.57	-3,609.4	-83.1	459.3	329.6	129.67	3.542		
10,800.0	7,047.0	10,695.8	6,955.0	68.1	67.8	78.57	-3,709.4	-83.1	459.3	326.2	133.06	3.452		
10,900.0	7,047.0	10,795.8	6,955.0	69.8	69.5	78.57	-3,809.4	-83.1	459.3	322.8	136.44	3.366		
11,000.0	7,047.0	10,895.8	6,955.0	71.6	71.2	78.57	-3,909.4	-83.1	459.3	319.5	139.83	3.285		
11,100.0	7,047.0	10,995.8	6,955.0	73.3	73.0	78.57	-4,009.4	-83.1	459.3	316.1	143.22	3.207		
11,200.0	7,047.0	11,095.8	6,955.0	75.0	74.7	78.57	-4,109.4	-83.1	459.3	312.7	146.61	3.133		
11,300.0	7,047.0	11,195.8	6,955.0	76.7	76.4	78.57	-4,209.4	-83.1	459.3	309.3	150.01	3.062		
11,400.0	7,047.0	11,295.8	6,955.0	78.5	78.2	78.57	-4,309.4	-83.1	459.3	305.9	153.40	2.994		
11,500.0	7,047.0	11,395.8	6,955.0	80.2	79.9	78.57	-4,409.4	-83.1	459.3	302.5	156.80	2.929		
11,600.0	7,047.0	11,495.8	6,955.0	81.9	81.6	78.57	-4,509.4	-83.1	459.3	299.1	160.20	2.867		
11,635.4	7,047.0	11,531.2	6,955.0	82.5	82.3	78.57	-4,544.8	-83.1	459.3	297.9	161.41	2.846		
11,646.6	7,047.0	11,540.4	6,955.0	82.7	82.4	78.57	-4,554.1	-83.1	459.3	297.5	161.75	2.839 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.90	0.0	-7.6	7.6	7.3	0.24	30.911		
200.0	200.0	200.0	200.0	0.3	0.3	-89.90	0.0	-7.6	7.6	7.0	0.59	12.728		
300.0	300.0	300.0	300.0	0.5	0.5	-89.90	0.0	-7.6	7.6	6.6	0.94	8.014	CC	
328.2	328.2	328.2	328.2	0.5	0.5	-143.73	0.0	-7.6	7.6	6.5	1.04	7.283		
400.0	400.0	400.0	400.0	0.6	0.6	-144.53	0.0	-7.6	7.7	6.4	1.29	5.985	ES	
500.0	500.0	500.1	500.1	0.8	0.8	-146.20	0.8	-7.1	8.7	7.1	1.64	5.312		
600.0	599.9	600.1	600.1	1.0	1.0	-144.57	3.1	-5.9	10.3	8.3	2.00	5.139		
700.0	699.8	700.2	700.1	1.2	1.2	-141.08	6.9	-3.7	12.4	10.0	2.36	5.242		
800.0	799.5	800.2	799.9	1.4	1.4	-138.20	11.9	-1.0	15.3	12.5	2.73	5.580		
900.0	899.2	900.1	899.6	1.6	1.6	-139.18	17.0	1.9	19.3	16.2	3.11	6.198		
1,000.0	998.8	1,000.0	999.4	1.8	1.8	-140.27	22.1	4.7	23.6	20.1	3.50	6.739		
1,100.0	1,098.4	1,099.9	1,099.1	2.0	2.0	-141.02	27.3	7.6	27.8	23.9	3.88	7.172		
1,200.0	1,198.0	1,199.8	1,198.9	2.3	2.2	-141.57	32.4	10.4	32.1	27.8	4.26	7.525		
1,300.0	1,297.6	1,299.7	1,298.6	2.5	2.4	-141.99	37.5	13.2	36.4	31.7	4.65	7.819		
1,400.0	1,397.2	1,399.7	1,398.3	2.7	2.6	-142.33	42.6	16.1	40.6	35.6	5.04	8.067		
1,500.0	1,496.8	1,499.6	1,498.1	2.9	2.8	-142.60	47.7	18.9	44.9	39.5	5.42	8.278		
1,600.0	1,596.4	1,599.5	1,597.8	3.2	3.0	-142.82	52.8	21.7	49.2	43.4	5.81	8.461		
1,700.0	1,696.0	1,699.4	1,697.5	3.4	3.2	-143.01	58.0	24.6	53.4	47.2	6.20	8.621		
1,800.0	1,795.7	1,799.3	1,797.3	3.6	3.4	-143.17	63.1	27.4	57.7	51.1	6.59	8.761		
1,900.0	1,895.3	1,899.2	1,897.0	3.9	3.6	-143.31	68.2	30.2	62.0	55.0	6.98	8.886		
2,000.0	1,994.9	1,999.1	1,996.7	4.1	3.8	-143.43	73.3	33.1	66.3	58.9	7.37	8.997		
2,100.0	2,094.5	2,099.0	2,096.5	4.3	4.0	-143.53	78.4	35.9	70.5	62.8	7.75	9.097		
2,200.0	2,194.1	2,198.9	2,196.2	4.6	4.2	-143.63	83.5	38.8	74.8	66.7	8.14	9.187		
2,300.0	2,293.7	2,298.8	2,296.0	4.8	4.4	-143.71	88.6	41.6	79.1	70.6	8.53	9.268		
2,400.0	2,393.3	2,398.7	2,395.7	5.0	4.6	-143.79	93.8	44.4	83.4	74.4	8.92	9.343		
2,500.0	2,492.9	2,498.7	2,495.4	5.3	4.8	-143.85	98.9	47.3	87.6	78.3	9.31	9.411		
2,600.0	2,592.5	2,598.6	2,595.2	5.5	5.0	-143.91	104.0	50.1	91.9	82.2	9.70	9.474		
2,700.0	2,692.1	2,698.5	2,694.9	5.7	5.2	-143.97	109.1	52.9	96.2	86.1	10.09	9.531		
2,800.0	2,791.8	2,798.4	2,794.6	5.9	5.4	-144.02	114.2	55.8	100.5	90.0	10.48	9.585		
2,900.0	2,891.4	2,898.3	2,894.4	6.2	5.6	-144.07	119.3	58.6	104.7	93.9	10.87	9.634		
3,000.0	2,991.0	2,998.2	2,994.1	6.4	5.8	-144.11	124.5	61.4	109.0	97.8	11.26	9.680		
3,100.0	3,090.6	3,098.1	3,093.9	6.6	6.0	-144.15	129.6	64.3	113.3	101.6	11.65	9.723		
3,200.0	3,190.2	3,198.0	3,193.6	6.9	6.2	-144.19	134.7	67.1	117.6	105.5	12.04	9.763		
3,300.0	3,289.8	3,297.9	3,293.3	7.1	6.4	-144.22	139.8	70.0	121.9	109.4	12.43	9.801		
3,400.0	3,389.4	3,397.8	3,393.1	7.3	6.6	-144.25	144.9	72.8	126.1	113.3	12.82	9.836		
3,500.0	3,489.0	3,497.7	3,492.8	7.6	6.8	-144.28	150.0	75.6	130.4	117.2	13.21	9.869		
3,600.0	3,588.6	3,597.6	3,592.5	7.8	7.0	-144.31	155.1	78.5	134.7	121.1	13.60	9.900		
3,700.0	3,688.2	3,697.6	3,692.3	8.0	7.2	-144.34	160.3	81.3	139.0	125.0	13.99	9.930		
3,800.0	3,787.9	3,797.5	3,792.0	8.3	7.4	-144.36	165.4	84.1	143.2	128.8	14.38	9.957		
3,900.0	3,887.5	3,897.4	3,891.8	8.5	7.6	-144.39	170.5	87.0	147.5	132.7	14.77	9.984		
4,000.0	3,987.1	3,997.3	3,991.5	8.7	7.8	-144.41	175.6	89.8	151.8	136.6	15.17	10.009		
4,100.0	4,086.7	4,097.2	4,091.2	9.0	8.0	-144.43	180.7	92.6	156.1	140.5	15.56	10.032		
4,200.0	4,186.3	4,197.1	4,191.0	9.2	8.2	-144.45	185.8	95.5	160.3	144.4	15.95	10.055		
4,300.0	4,285.9	4,297.0	4,290.7	9.4	8.4	-144.47	191.0	98.3	164.6	148.3	16.34	10.076		
4,400.0	4,385.5	4,396.9	4,390.4	9.7	8.6	-144.49	196.1	101.1	168.9	152.2	16.73	10.097		
4,500.0	4,485.1	4,496.8	4,490.2	9.9	8.8	-144.50	201.2	104.0	173.2	156.0	17.12	10.116		
4,600.0	4,584.7	4,596.7	4,589.9	10.1	9.0	-144.52	206.3	106.8	177.4	159.9	17.51	10.135		
4,700.0	4,684.3	4,696.6	4,689.7	10.4	9.2	-144.53	211.4	109.7	181.7	163.8	17.90	10.153		
4,800.0	4,784.0	4,796.5	4,789.4	10.6	9.4	-144.55	216.5	112.5	186.0	167.7	18.29	10.170		
4,900.0	4,883.6	4,896.5	4,889.1	10.8	9.6	-144.56	221.6	115.3	190.3	171.6	18.68	10.186		
5,000.0	4,983.2	4,996.4	4,988.9	11.1	9.8	-144.58	226.8	118.2	194.5	175.5	19.07	10.202		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2J-32H-C264 - HZ - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,082.8	5,096.3	5,088.6	11.3	10.0	-144.59	231.9	121.0	198.8	179.4	19.46	10.217	
5,200.0	5,182.4	5,196.2	5,188.3	11.5	10.2	-144.60	237.0	123.8	203.1	183.2	19.85	10.231	
5,300.0	5,282.0	5,296.1	5,288.1	11.8	10.4	-144.61	242.1	126.7	207.4	187.1	20.24	10.245	
5,400.0	5,381.6	5,396.0	5,387.8	12.0	10.6	-144.62	247.2	129.5	211.7	191.0	20.63	10.258	
5,500.0	5,481.2	5,495.9	5,487.5	12.2	10.8	-144.64	252.3	132.3	215.9	194.9	21.02	10.271	
5,600.0	5,580.9	5,595.8	5,587.3	12.4	11.0	-144.56	257.5	135.2	219.7	198.3	21.42	10.257	
5,700.0	5,680.7	5,695.4	5,686.7	12.6	11.2	-144.24	262.5	138.0	222.0	200.2	21.82	10.177	
5,800.0	5,780.6	5,793.5	5,784.7	12.8	11.4	-143.94	266.5	140.2	223.6	201.4	22.19	10.075	
5,900.0	5,880.5	5,891.6	5,882.8	13.0	11.6	-143.74	269.0	141.6	224.5	202.0	22.54	9.964	
6,000.0	5,980.5	5,989.7	5,980.9	13.1	11.7	-143.66	270.0	142.1	224.9	202.1	22.85	9.844	
6,100.0	6,080.5	6,089.4	6,080.5	13.3	11.9	-90.00	270.0	142.1	225.0	201.8	23.17	9.710	
6,200.0	6,180.5	6,189.4	6,180.5	13.4	12.0	-90.00	270.0	142.1	225.0	201.5	23.49	9.578	
6,300.0	6,280.5	6,289.4	6,280.5	13.5	12.2	-90.00	270.0	142.1	225.0	201.1	23.81	9.449	
6,400.0	6,380.5	6,389.4	6,380.5	13.7	12.3	-90.00	270.0	142.1	225.0	200.8	24.13	9.323	
6,465.3	6,445.8	6,454.6	6,445.8	13.8	12.4	90.06	270.0	142.1	225.0	200.6	24.34	9.241	
6,500.0	6,480.5	6,489.4	6,480.5	13.8	12.5	90.01	270.0	142.1	225.0	200.5	24.45	9.200	
6,522.8	6,503.3	6,512.1	6,503.3	13.8	12.5	90.19	270.0	142.1	225.0	200.4	24.51	9.176	
6,600.0	6,579.9	6,588.8	6,579.9	13.9	12.7	92.47	270.0	142.1	225.2	200.3	24.82	9.070	
6,700.0	6,676.1	6,689.4	6,680.3	13.9	12.8	97.89	264.9	142.1	227.2	202.1	25.16	9.031	
6,800.0	6,766.1	6,794.9	6,783.0	13.8	12.8	103.21	241.3	142.1	231.4	206.2	25.15	9.199	
6,900.0	6,847.3	6,905.2	6,883.8	13.8	12.7	108.06	197.1	142.1	237.1	212.3	24.81	9.557	
7,000.0	6,917.1	7,020.4	6,978.0	13.8	12.6	112.24	131.1	142.1	243.6	219.3	24.28	10.032	
7,100.0	6,973.4	7,140.4	7,060.1	13.9	12.7	115.62	43.8	142.1	249.9	226.1	23.84	10.484	
7,200.0	7,014.6	7,264.7	7,124.1	14.3	13.0	118.09	-62.5	142.1	255.2	231.4	23.84	10.705	
7,300.0	7,039.4	7,392.2	7,164.3	14.8	13.6	119.57	-183.1	142.1	258.7	234.1	24.59	10.523	
7,400.0	7,047.0	7,519.4	7,177.0	15.5	14.6	120.02	-309.4	142.1	259.8	233.6	26.17	9.928	
7,500.0	7,047.0	7,619.4	7,177.0	16.4	15.5	120.02	-409.4	142.1	259.8	232.0	27.81	9.341	
7,600.0	7,047.0	7,719.4	7,177.0	17.4	16.6	120.02	-509.4	142.1	259.8	230.1	29.68	8.755	
7,700.0	7,047.0	7,819.4	7,177.0	18.5	17.7	120.02	-609.4	142.1	259.8	228.1	31.72	8.191	
7,800.0	7,047.0	7,919.4	7,177.0	19.7	19.0	120.02	-709.4	142.1	259.8	225.9	33.91	7.661	
7,900.0	7,047.0	8,019.4	7,177.0	21.0	20.3	120.02	-809.4	142.1	259.8	223.6	36.23	7.171	
8,000.0	7,047.0	8,119.4	7,177.0	22.4	21.7	120.02	-909.4	142.1	259.8	221.2	38.65	6.722	
8,100.0	7,047.0	8,219.4	7,177.0	23.8	23.2	120.02	-1,009.4	142.1	259.8	218.7	41.15	6.314	
8,200.0	7,047.0	8,319.4	7,177.0	25.2	24.7	120.02	-1,109.4	142.1	259.8	216.1	43.72	5.942	
8,300.0	7,047.0	8,419.4	7,177.0	26.7	26.2	120.02	-1,209.4	142.1	259.8	213.5	46.35	5.605	
8,400.0	7,047.0	8,519.4	7,177.0	28.2	27.7	120.02	-1,309.4	142.1	259.8	210.8	49.03	5.299	
8,500.0	7,047.0	8,619.4	7,177.0	29.8	29.3	120.02	-1,409.4	142.1	259.8	208.1	51.74	5.021	
8,600.0	7,047.0	8,719.4	7,177.0	31.3	30.9	120.02	-1,509.4	142.1	259.8	205.3	54.49	4.768	
8,700.0	7,047.0	8,819.4	7,177.0	32.9	32.5	120.02	-1,609.4	142.1	259.8	202.5	57.28	4.536	
8,800.0	7,047.0	8,919.4	7,177.0	34.5	34.1	120.02	-1,709.4	142.1	259.8	199.7	60.08	4.324	
8,900.0	7,047.0	9,019.4	7,177.0	36.1	35.7	120.02	-1,809.4	142.1	259.8	196.9	62.91	4.130	
9,000.0	7,047.0	9,119.4	7,177.0	37.8	37.4	120.02	-1,909.4	142.1	259.8	194.1	65.76	3.951	
9,100.0	7,047.0	9,219.4	7,177.0	39.4	39.0	120.02	-2,009.4	142.1	259.8	191.2	68.62	3.786	
9,200.0	7,047.0	9,319.4	7,177.0	41.0	40.7	120.02	-2,109.4	142.1	259.8	188.3	71.50	3.634	
9,300.0	7,047.0	9,419.4	7,177.0	42.7	42.4	120.02	-2,209.4	142.1	259.8	185.4	74.39	3.492	
9,400.0	7,047.0	9,519.4	7,177.0	44.4	44.0	120.02	-2,309.4	142.1	259.8	182.5	77.30	3.361	
9,500.0	7,047.0	9,619.4	7,177.0	46.0	45.7	120.02	-2,409.4	142.1	259.8	179.6	80.21	3.239	
9,600.0	7,047.0	9,719.4	7,177.0	47.7	47.4	120.02	-2,509.4	142.1	259.8	176.7	83.14	3.125	
9,700.0	7,047.0	9,819.4	7,177.0	49.4	49.1	120.02	-2,609.4	142.1	259.8	173.7	86.07	3.019	
9,800.0	7,047.0	9,919.4	7,177.0	51.1	50.8	120.02	-2,709.4	142.1	259.8	170.8	89.01	2.919	
9,900.0	7,047.0	10,019.4	7,177.0	52.8	52.5	120.02	-2,809.4	142.1	259.8	167.9	91.95	2.825	
10,000.0	7,047.0	10,119.4	7,177.0	54.5	54.2	120.02	-2,909.4	142.1	259.8	164.9	94.91	2.738	

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - HZ - 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
10,100.0	7,047.0	10,219.4	7,177.0	56.2	55.9	120.02	-3,009.4	142.1	259.8	161.9	97.86	2.655	
10,200.0	7,047.0	10,319.4	7,177.0	57.9	57.6	120.02	-3,109.4	142.1	259.8	159.0	100.83	2.577	
10,300.0	7,047.0	10,419.4	7,177.0	59.6	59.3	120.02	-3,209.4	142.1	259.8	156.0	103.79	2.503	
10,400.0	7,047.0	10,519.4	7,177.0	61.3	61.1	120.02	-3,309.4	142.1	259.8	153.0	106.77	2.433	
10,500.0	7,047.0	10,619.4	7,177.0	63.0	62.8	120.02	-3,409.4	142.1	259.8	150.1	109.74	2.367	
10,600.0	7,047.0	10,719.4	7,177.0	64.7	64.5	120.02	-3,509.4	142.1	259.8	147.1	112.72	2.305	
10,700.0	7,047.0	10,819.4	7,177.0	66.4	66.2	120.02	-3,609.4	142.1	259.8	144.1	115.71	2.245	
10,800.0	7,047.0	10,919.4	7,177.0	68.1	67.9	120.02	-3,709.4	142.1	259.8	141.1	118.69	2.189	
10,900.0	7,047.0	11,019.4	7,177.0	69.8	69.7	120.02	-3,809.4	142.1	259.8	138.1	121.68	2.135	
11,000.0	7,047.0	11,119.4	7,177.0	71.6	71.4	120.02	-3,909.4	142.1	259.8	135.1	124.67	2.084	
11,100.0	7,047.0	11,219.4	7,177.0	73.3	73.1	120.02	-4,009.4	142.1	259.8	132.1	127.67	2.035	
11,200.0	7,047.0	11,319.4	7,177.0	75.0	74.8	120.02	-4,109.4	142.1	259.8	129.2	130.66	1.988	
11,300.0	7,047.0	11,419.4	7,177.0	76.7	76.6	120.02	-4,209.4	142.1	259.8	126.2	133.66	1.944	
11,400.0	7,047.0	11,519.4	7,177.0	78.5	78.3	120.02	-4,309.4	142.1	259.8	123.2	136.66	1.901	
11,500.0	7,047.0	11,619.4	7,177.0	80.2	80.0	120.02	-4,409.4	142.1	259.8	120.2	139.66	1.860	
11,600.0	7,047.0	11,719.4	7,177.0	81.9	81.8	120.02	-4,509.4	142.1	259.8	117.1	142.67	1.821	
11,635.5	7,047.0	11,754.9	7,177.0	82.5	82.4	120.02	-4,545.0	142.1	259.8	116.1	143.73	1.808	
11,646.6	7,047.0	11,764.5	7,177.0	82.7	82.5	120.02	-4,554.5	142.1	259.8	115.8	144.04	1.804 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - HZ - 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	7.3	7.3					
100.0	100.0	100.0	100.0	0.1	0.1	90.10	0.0	7.3	7.3	7.0	0.24	29.766		
200.0	200.0	200.0	200.0	0.3	0.3	90.10	0.0	7.3	7.3	6.7	0.59	12.257		
300.0	300.0	300.0	300.0	0.5	0.5	90.10	0.0	7.3	7.3	6.3	0.94	7.717	CC, ES	
400.0	400.0	399.9	399.9	0.6	0.6	34.71	0.4	8.1	7.9	6.6	1.29	6.111		
500.0	500.0	499.7	499.7	0.8	0.8	34.48	1.4	10.4	8.9	7.2	1.64	5.399		
600.0	599.9	599.6	599.4	1.0	1.0	36.07	3.3	14.4	10.0	8.0	1.99	5.015		
700.0	699.8	699.4	699.1	1.2	1.2	38.84	5.8	19.9	11.3	9.0	2.35	4.813		
800.0	799.5	799.2	798.6	1.4	1.4	42.30	9.1	27.0	12.9	10.2	2.73	4.722		
900.0	899.2	899.0	897.9	1.6	1.6	45.61	13.1	35.7	14.8	11.7	3.12	4.745		
1,000.0	998.8	998.7	997.0	1.8	1.9	45.51	17.8	45.9	18.0	14.5	3.52	5.121		
1,100.0	1,098.4	1,098.5	1,095.9	2.0	2.2	43.38	23.1	57.4	22.4	18.5	3.90	5.744		
1,200.0	1,198.0	1,198.4	1,195.0	2.3	2.4	41.79	28.5	69.1	27.0	22.7	4.29	6.290		
1,300.0	1,297.6	1,298.3	1,294.1	2.5	2.7	40.66	33.9	80.8	31.5	26.9	4.67	6.749		
1,400.0	1,397.2	1,398.2	1,393.1	2.7	3.0	39.82	39.3	92.5	36.1	31.1	5.06	7.138		
1,500.0	1,496.8	1,498.1	1,492.2	2.9	3.2	39.17	44.7	104.2	40.7	35.3	5.45	7.473		
1,600.0	1,596.4	1,597.9	1,591.2	3.2	3.5	38.65	50.1	115.8	45.3	39.5	5.84	7.764		
1,700.0	1,696.0	1,697.8	1,690.3	3.4	3.8	38.22	55.5	127.5	49.9	43.7	6.22	8.019		
1,800.0	1,795.7	1,797.7	1,789.4	3.6	4.1	37.87	60.9	139.2	54.5	47.9	6.61	8.243		
1,900.0	1,895.3	1,897.6	1,888.4	3.9	4.4	37.57	66.3	150.9	59.1	52.1	7.00	8.443		
2,000.0	1,994.9	1,997.5	1,987.5	4.1	4.6	37.31	71.7	162.6	63.7	56.3	7.39	8.622		
2,100.0	2,094.5	2,097.4	2,086.6	4.3	4.9	37.09	77.1	174.3	68.3	60.5	7.78	8.783		
2,200.0	2,194.1	2,197.3	2,185.6	4.6	5.2	36.90	82.5	185.9	72.9	64.7	8.17	8.929		
2,300.0	2,293.7	2,297.2	2,284.7	4.8	5.5	36.73	87.9	197.6	77.5	69.0	8.55	9.061		
2,400.0	2,393.3	2,397.1	2,383.7	5.0	5.8	36.58	93.3	209.3	82.1	73.2	8.94	9.182		
2,500.0	2,492.9	2,497.0	2,482.8	5.3	6.0	36.44	98.7	221.0	86.7	77.4	9.33	9.293		
2,600.0	2,592.5	2,596.9	2,581.9	5.5	6.3	36.32	104.1	232.7	91.3	81.6	9.72	9.395		
2,700.0	2,692.1	2,696.8	2,680.9	5.7	6.6	36.21	109.4	244.4	95.9	85.8	10.11	9.489		
2,800.0	2,791.8	2,796.7	2,780.0	5.9	6.9	36.11	114.8	256.0	100.5	90.0	10.50	9.576		
2,900.0	2,891.4	2,896.6	2,879.0	6.2	7.2	36.02	120.2	267.7	105.1	94.3	10.89	9.657		
3,000.0	2,991.0	2,996.5	2,978.1	6.4	7.5	35.94	125.6	279.4	109.7	98.5	11.28	9.732		
3,100.0	3,090.6	3,096.4	3,077.2	6.6	7.7	35.86	131.0	291.1	114.3	102.7	11.67	9.802		
3,200.0	3,190.2	3,196.3	3,176.2	6.9	8.0	35.79	136.4	302.8	119.0	106.9	12.05	9.868		
3,300.0	3,289.8	3,296.1	3,275.3	7.1	8.3	35.73	141.8	314.4	123.6	111.1	12.44	9.929		
3,400.0	3,389.4	3,396.0	3,374.4	7.3	8.6	35.66	147.2	326.1	128.2	115.3	12.83	9.987		
3,500.0	3,489.0	3,495.9	3,473.4	7.6	8.9	35.61	152.6	337.8	132.8	119.6	13.22	10.042		
3,600.0	3,588.6	3,595.8	3,572.5	7.8	9.2	35.56	158.0	349.5	137.4	123.8	13.61	10.093		
3,700.0	3,688.2	3,695.7	3,671.5	8.0	9.5	35.51	163.4	361.2	142.0	128.0	14.00	10.141		
3,800.0	3,787.9	3,795.6	3,770.6	8.3	9.7	35.46	168.8	372.9	146.6	132.2	14.39	10.187		
3,900.0	3,887.5	3,895.5	3,869.7	8.5	10.0	35.42	174.2	384.5	151.2	136.4	14.78	10.230		
4,000.0	3,987.1	3,995.4	3,968.7	8.7	10.3	35.38	179.6	396.2	155.8	140.6	15.17	10.271		
4,100.0	4,086.7	4,095.3	4,067.8	9.0	10.6	35.34	185.0	407.9	160.4	144.9	15.56	10.310		
4,200.0	4,186.3	4,195.2	4,166.8	9.2	10.9	35.30	190.4	419.6	165.0	149.1	15.95	10.348		
4,300.0	4,285.9	4,295.1	4,265.9	9.4	11.2	35.27	195.7	431.3	169.6	153.3	16.34	10.383		
4,400.0	4,385.5	4,395.0	4,365.0	9.7	11.4	35.23	201.1	443.0	174.2	157.5	16.73	10.417		
4,500.0	4,485.1	4,494.9	4,464.0	9.9	11.7	35.20	206.5	454.6	178.8	161.7	17.12	10.449		
4,600.0	4,584.7	4,594.8	4,563.1	10.1	12.0	35.17	211.9	466.3	183.5	165.9	17.51	10.480		
4,700.0	4,684.3	4,694.7	4,662.2	10.4	12.3	35.15	217.3	478.0	188.1	170.2	17.90	10.509		
4,800.0	4,784.0	4,794.6	4,761.2	10.6	12.6	35.12	222.7	489.7	192.7	174.4	18.28	10.537		
4,900.0	4,883.6	4,894.4	4,860.3	10.8	12.9	35.09	228.1	501.4	197.3	178.6	18.67	10.564		
5,000.0	4,983.2	4,994.3	4,959.3	11.1	13.2	35.07	233.5	513.0	201.9	182.8	19.06	10.590		
5,100.0	5,082.8	5,094.2	5,058.4	11.3	13.4	35.05	238.9	524.7	206.5	187.0	19.45	10.615		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - HZ - 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)				
5,200.0	5,182.4	5,194.1	5,157.5	11.5	13.7	35.02	244.3	536.4	211.1	191.3	19.84	10.639		
5,300.0	5,282.0	5,294.0	5,256.5	11.8	14.0	35.00	249.7	548.1	215.7	195.5	20.23	10.661		
5,400.0	5,381.6	5,397.4	5,359.1	12.0	14.3	35.07	254.9	559.4	219.6	198.9	20.63	10.642		
5,500.0	5,481.2	5,501.0	5,462.2	12.2	14.5	35.33	259.4	569.1	221.8	200.7	21.05	10.535		
5,600.0	5,580.9	5,604.6	5,565.5	12.4	14.7	35.68	263.1	577.1	222.9	201.4	21.47	10.382		
5,700.0	5,680.7	5,708.3	5,668.9	12.6	14.9	35.96	266.0	583.4	223.8	201.9	21.86	10.235		
5,800.0	5,780.6	5,812.0	5,772.5	12.8	15.1	36.16	268.1	588.0	224.4	202.2	22.23	10.095		
5,900.0	5,880.5	5,915.7	5,876.1	13.0	15.3	36.28	269.4	590.9	224.8	202.2	22.57	9.959		
6,000.0	5,980.5	6,019.4	5,979.8	13.1	15.4	36.34	270.0	592.0	225.0	202.1	22.89	9.827		
6,100.0	6,080.5	6,120.1	6,080.5	13.3	15.5	90.00	270.0	592.1	225.0	201.8	23.21	9.692		
6,200.0	6,180.5	6,220.1	6,180.5	13.4	15.6	90.00	270.0	592.1	225.0	201.4	23.53	9.561		
6,300.0	6,280.5	6,320.1	6,280.5	13.5	15.8	90.00	270.0	592.1	225.0	201.1	23.85	9.432		
6,400.0	6,380.5	6,420.1	6,380.5	13.7	15.9	90.00	270.0	592.1	225.0	200.8	24.17	9.307		
6,424.4	6,404.9	6,444.5	6,404.9	13.7	15.9	-89.90	269.6	592.1	225.0	200.7	24.25	9.275		
6,500.0	6,480.5	6,519.2	6,479.1	13.8	15.9	-87.94	261.9	592.1	225.1	200.5	24.64	9.135		
6,600.0	6,579.9	6,615.3	6,572.1	13.9	15.9	-84.09	237.9	592.1	226.2	201.1	25.10	9.011		
6,700.0	6,676.1	6,709.2	6,657.8	13.9	15.9	-80.49	199.8	592.1	228.2	202.9	25.26	9.032		
6,800.0	6,766.1	6,800.0	6,733.7	13.8	15.8	-77.28	150.1	592.1	230.8	205.6	25.13	9.184		
6,900.0	6,847.3	6,891.4	6,801.2	13.8	15.8	-74.43	88.7	592.1	233.6	208.9	24.78	9.427		
7,000.0	6,917.1	6,980.4	6,856.8	13.8	15.9	-72.10	19.3	592.1	236.5	212.1	24.41	9.688		
7,100.0	6,973.4	7,068.2	6,900.4	13.9	16.1	-70.28	-56.8	592.1	239.1	214.8	24.27	9.852		
7,200.0	7,014.6	7,155.3	6,931.7	14.3	16.4	-68.98	-138.0	592.1	241.0	216.5	24.56	9.813		
7,300.0	7,039.4	7,241.9	6,950.3	14.8	16.8	-68.21	-222.5	592.1	242.3	216.8	25.51	9.497		
7,400.0	7,047.0	7,329.1	6,956.0	15.5	17.3	-67.98	-309.4	592.1	242.7	215.6	27.12	8.949		
7,500.0	7,047.0	7,429.1	6,956.0	16.4	18.1	-67.98	-409.4	592.1	242.7	213.8	28.88	8.402		
7,600.0	7,047.0	7,529.1	6,956.0	17.4	19.0	-67.98	-509.4	592.1	242.7	211.8	30.89	7.857		
7,700.0	7,047.0	7,629.1	6,956.0	18.5	20.1	-67.98	-609.4	592.1	242.7	209.6	33.09	7.334		
7,800.0	7,047.0	7,729.1	6,956.0	19.7	21.2	-67.98	-709.4	592.1	242.7	207.2	35.45	6.845		
7,900.0	7,047.0	7,829.1	6,956.0	21.0	22.4	-67.98	-809.4	592.1	242.7	204.7	37.95	6.395		
8,000.0	7,047.0	7,929.1	6,956.0	22.4	23.7	-67.98	-909.4	592.1	242.7	202.1	40.55	5.984		
8,100.0	7,047.0	8,029.1	6,956.0	23.8	25.0	-67.98	-1,009.4	592.1	242.7	199.4	43.24	5.612		
8,200.0	7,047.0	8,129.1	6,956.0	25.2	26.4	-67.98	-1,109.4	592.1	242.7	196.7	46.01	5.274		
8,300.0	7,047.0	8,229.1	6,956.0	26.7	27.8	-67.98	-1,209.4	592.1	242.7	193.8	48.84	4.969		
8,400.0	7,047.0	8,329.1	6,956.0	28.2	29.3	-67.98	-1,309.4	592.1	242.7	191.0	51.71	4.693		
8,500.0	7,047.0	8,429.1	6,956.0	29.8	30.7	-67.98	-1,409.4	592.1	242.7	188.0	54.63	4.442		
8,600.0	7,047.0	8,529.1	6,956.0	31.3	32.3	-67.98	-1,509.4	592.1	242.7	185.1	57.59	4.214		
8,700.0	7,047.0	8,629.1	6,956.0	32.9	33.8	-67.98	-1,609.4	592.1	242.7	182.1	60.57	4.006		
8,800.0	7,047.0	8,729.1	6,956.0	34.5	35.4	-67.98	-1,709.4	592.1	242.7	179.1	63.59	3.816		
8,900.0	7,047.0	8,829.1	6,956.0	36.1	36.9	-67.98	-1,809.4	592.1	242.7	176.1	66.62	3.643		
9,000.0	7,047.0	8,929.1	6,956.0	37.8	38.5	-67.98	-1,909.4	592.1	242.7	173.0	69.68	3.483		
9,100.0	7,047.0	9,029.1	6,956.0	39.4	40.1	-67.98	-2,009.4	592.1	242.7	169.9	72.75	3.336		
9,200.0	7,047.0	9,129.1	6,956.0	41.0	41.8	-67.98	-2,109.4	592.1	242.7	166.8	75.84	3.200		
9,300.0	7,047.0	9,229.1	6,956.0	42.7	43.4	-67.98	-2,209.4	592.1	242.7	163.7	78.94	3.074		
9,400.0	7,047.0	9,329.1	6,956.0	44.4	45.0	-67.98	-2,309.4	592.1	242.7	160.6	82.05	2.958		
9,500.0	7,047.0	9,429.1	6,956.0	46.0	46.7	-67.98	-2,409.4	592.1	242.7	157.5	85.17	2.849		
9,600.0	7,047.0	9,529.1	6,956.0	47.7	48.3	-67.98	-2,509.4	592.0	242.7	154.4	88.31	2.748		
9,700.0	7,047.0	9,629.1	6,956.0	49.4	50.0	-67.98	-2,609.4	592.0	242.7	151.2	91.45	2.654		
9,800.0	7,047.0	9,729.1	6,956.0	51.1	51.6	-67.98	-2,709.4	592.0	242.7	148.1	94.60	2.565		
9,900.0	7,047.0	9,829.1	6,956.0	52.8	53.3	-67.98	-2,809.4	592.0	242.7	144.9	97.76	2.482		
10,000.0	7,047.0	9,929.1	6,956.0	54.5	55.0	-67.98	-2,909.4	592.0	242.7	141.7	100.92	2.405		
10,100.0	7,047.0	10,029.1	6,956.0	56.2	56.7	-67.98	-3,009.4	592.0	242.7	138.6	104.09	2.331		
10,200.0	7,047.0	10,129.1	6,956.0	57.9	58.4	-67.98	-3,109.4	592.0	242.7	135.4	107.26	2.262		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - HZ - 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)			
10,300.0	7,047.0	10,229.1	6,956.0	59.6	60.1	-67.98	-3,209.4	592.0	242.7	132.2	110.44	2.197	
10,400.0	7,047.0	10,329.1	6,956.0	61.3	61.7	-67.98	-3,309.4	592.0	242.7	129.0	113.62	2.136	
10,500.0	7,047.0	10,429.1	6,956.0	63.0	63.4	-67.98	-3,409.4	592.0	242.7	125.9	116.81	2.077	
10,600.0	7,047.0	10,529.1	6,956.0	64.7	65.1	-67.98	-3,509.4	592.0	242.7	122.7	120.00	2.022	
10,700.0	7,047.0	10,629.1	6,956.0	66.4	66.8	-67.98	-3,609.4	592.0	242.7	119.5	123.19	1.970	
10,800.0	7,047.0	10,729.1	6,956.0	68.1	68.6	-67.98	-3,709.4	592.0	242.7	116.3	126.39	1.920	
10,900.0	7,047.0	10,829.1	6,956.0	69.8	70.3	-67.98	-3,809.4	592.0	242.7	113.1	129.59	1.873	
11,000.0	7,047.0	10,929.1	6,956.0	71.6	72.0	-67.98	-3,909.4	592.0	242.7	109.9	132.79	1.827	
11,100.0	7,047.0	11,029.1	6,956.0	73.3	73.7	-67.98	-4,009.4	592.0	242.7	106.7	136.00	1.784	
11,200.0	7,047.0	11,129.1	6,956.0	75.0	75.4	-67.98	-4,109.4	592.0	242.7	103.5	139.21	1.743	
11,300.0	7,047.0	11,229.1	6,956.0	76.7	77.1	-67.98	-4,209.4	592.0	242.7	100.2	142.42	1.704	
11,400.0	7,047.0	11,329.1	6,956.0	78.5	78.8	-67.98	-4,309.4	592.0	242.7	97.0	145.63	1.666	
11,500.0	7,047.0	11,429.1	6,956.0	80.2	80.5	-67.98	-4,409.4	592.0	242.7	93.8	148.84	1.630	
11,600.0	7,047.0	11,529.1	6,956.0	81.9	82.3	-67.98	-4,509.4	592.0	242.7	90.6	152.06	1.596	
11,646.6	7,047.0	11,575.7	6,956.0	82.7	83.1	-67.97	-4,556.0	592.0	242.7	89.1	153.55	1.580 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - HZ - 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	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	91.31	-0.3	14.8	14.8						
100.0	100.0	100.0	100.0	0.1	0.1	91.31	-0.3	14.8	14.8	14.6	0.24	60.692			
200.0	200.0	200.0	200.0	0.3	0.3	91.31	-0.3	14.8	14.8	14.2	0.59	24.991			
233.4	233.4	233.4	233.4	0.4	0.4	91.31	-0.3	14.8	14.8	14.1	0.71	20.888 CC			
300.0	300.0	299.9	299.9	0.5	0.5	91.03	-0.3	15.0	15.0	14.1	0.94	15.956 ES			
400.0	400.0	399.6	399.6	0.6	0.6	35.79	0.3	16.7	16.5	15.2	1.29	12.786			
500.0	500.0	499.3	499.2	0.8	0.8	35.60	1.4	20.0	18.4	16.8	1.64	11.215			
600.0	599.9	599.0	598.7	1.0	1.0	36.78	3.0	24.9	20.5	18.5	1.99	10.301			
700.0	699.8	698.6	698.1	1.2	1.2	38.91	5.3	31.5	22.9	20.6	2.35	9.749			
800.0	799.5	798.1	797.3	1.4	1.4	41.66	8.0	39.7	25.6	22.9	2.72	9.414			
900.0	899.2	897.6	896.3	1.6	1.7	44.52	11.3	49.5	28.8	25.7	3.11	9.260			
1,000.0	998.8	997.1	995.0	1.8	1.9	45.72	15.2	60.9	33.4	29.9	3.51	9.515			
1,100.0	1,098.4	1,096.3	1,093.2	2.0	2.2	45.42	19.6	74.0	39.5	35.6	3.91	10.110			
1,200.0	1,198.0	1,195.4	1,191.1	2.3	2.5	44.23	24.5	88.6	47.1	42.8	4.30	10.963			
1,300.0	1,297.6	1,294.4	1,288.6	2.5	2.9	42.64	29.9	104.7	56.3	51.6	4.69	12.009			
1,400.0	1,397.2	1,393.9	1,386.6	2.7	3.2	41.35	35.5	121.3	65.8	60.7	5.07	12.978			
1,500.0	1,496.8	1,493.5	1,484.6	2.9	3.5	40.39	41.1	137.9	75.4	69.9	5.46	13.813			
1,600.0	1,596.4	1,593.0	1,582.6	3.2	3.9	39.64	46.7	154.5	85.0	79.1	5.84	14.541			
1,700.0	1,696.0	1,692.5	1,680.6	3.4	4.2	39.04	52.3	171.1	94.6	88.3	6.23	15.179			
1,800.0	1,795.7	1,792.1	1,778.5	3.6	4.6	38.56	57.9	187.7	104.2	97.5	6.62	15.743			
1,900.0	1,895.3	1,891.6	1,876.5	3.9	4.9	38.15	63.4	204.3	113.8	106.8	7.00	16.245			
2,000.0	1,994.9	1,991.1	1,974.5	4.1	5.3	37.81	69.0	220.9	123.4	116.0	7.39	16.695			
2,100.0	2,094.5	2,090.7	2,072.5	4.3	5.6	37.52	74.6	237.6	133.0	125.2	7.78	17.101			
2,200.0	2,194.1	2,190.2	2,170.5	4.6	6.0	37.27	80.2	254.2	142.6	134.5	8.17	17.468			
2,300.0	2,293.7	2,289.7	2,268.4	4.8	6.3	37.05	85.8	270.8	152.3	143.7	8.55	17.801			
2,400.0	2,393.3	2,389.3	2,366.4	5.0	6.7	36.85	91.4	287.4	161.9	152.9	8.94	18.106			
2,500.0	2,492.9	2,488.8	2,464.4	5.3	7.0	36.68	97.0	304.0	171.5	162.2	9.33	18.386			
2,600.0	2,592.5	2,588.3	2,562.4	5.5	7.4	36.53	102.6	320.6	181.1	171.4	9.72	18.643			
2,700.0	2,692.1	2,687.9	2,660.4	5.7	7.7	36.39	108.2	337.2	190.8	180.7	10.10	18.881			
2,800.0	2,791.8	2,787.4	2,758.3	5.9	8.1	36.26	113.7	353.8	200.4	189.9	10.49	19.101			
2,900.0	2,891.4	2,886.9	2,856.3	6.2	8.4	36.15	119.3	370.4	210.0	199.2	10.88	19.305			
3,000.0	2,991.0	2,986.5	2,954.3	6.4	8.8	36.05	124.9	387.0	219.7	208.4	11.27	19.495			
3,100.0	3,090.6	3,086.0	3,052.3	6.6	9.1	35.95	130.5	403.6	229.3	217.6	11.66	19.673			
3,200.0	3,190.2	3,185.5	3,150.3	6.9	9.5	35.86	136.1	420.2	238.9	226.9	12.04	19.839			
3,300.0	3,289.8	3,285.1	3,248.2	7.1	9.8	35.78	141.7	436.8	248.6	236.1	12.43	19.995			
3,400.0	3,389.4	3,384.6	3,346.2	7.3	10.2	35.71	147.3	453.4	258.2	245.4	12.82	20.141			
3,500.0	3,489.0	3,484.1	3,444.2	7.6	10.5	35.64	152.9	470.0	267.8	254.6	13.21	20.279			
3,600.0	3,588.6	3,583.7	3,542.2	7.8	10.9	35.57	158.5	486.6	277.5	263.9	13.60	20.408			
3,700.0	3,688.2	3,683.2	3,640.2	8.0	11.2	35.51	164.0	503.2	287.1	273.1	13.98	20.531			
3,800.0	3,787.9	3,782.7	3,738.1	8.3	11.6	35.46	169.6	519.8	296.7	282.4	14.37	20.647			
3,900.0	3,887.5	3,882.3	3,836.1	8.5	11.9	35.41	175.2	536.4	306.4	291.6	14.76	20.757			
4,000.0	3,987.1	3,981.8	3,934.1	8.7	12.3	35.36	180.8	553.0	316.0	300.9	15.15	20.861			
4,100.0	4,086.7	4,081.4	4,032.1	9.0	12.7	35.31	186.4	569.6	325.7	310.1	15.54	20.960			
4,200.0	4,186.3	4,180.9	4,130.1	9.2	13.0	35.27	192.0	586.3	335.3	319.4	15.93	21.054			
4,300.0	4,285.9	4,280.4	4,228.0	9.4	13.4	35.22	197.6	602.9	344.9	328.6	16.31	21.144			
4,400.0	4,385.5	4,380.0	4,326.0	9.7	13.7	35.19	203.2	619.5	354.6	337.9	16.70	21.229			
4,500.0	4,485.1	4,479.5	4,424.0	9.9	14.1	35.15	208.8	636.1	364.2	347.1	17.09	21.311			
4,600.0	4,584.7	4,579.0	4,522.0	10.1	14.4	35.11	214.3	652.7	373.8	356.4	17.48	21.389			
4,700.0	4,684.3	4,678.6	4,620.0	10.4	14.8	35.08	219.9	669.3	383.5	365.6	17.87	21.464			
4,800.0	4,784.0	4,778.1	4,717.9	10.6	15.1	35.05	225.5	685.9	393.1	374.9	18.26	21.535			
4,900.0	4,883.6	4,877.6	4,815.9	10.8	15.5	35.02	231.1	702.5	402.8	384.1	18.64	21.603			
5,000.0	4,983.2	4,977.2	4,913.9	11.1	15.8	34.99	236.7	719.1	412.4	393.4	19.03	21.669			

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - HZ - 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	5,082.8	5,078.3	5,013.4	11.3	16.2	34.96	242.4	735.9	422.0	402.6	19.42	21.727		
5,200.0	5,182.4	5,185.5	5,119.3	11.5	16.5	34.99	247.9	752.5	430.4	410.6	19.83	21.705		
5,300.0	5,282.0	5,293.1	5,225.7	11.8	16.9	35.10	252.9	767.2	437.0	416.7	20.24	21.587		
5,400.0	5,381.6	5,400.8	5,332.6	12.0	17.2	35.28	257.2	780.1	441.8	421.1	20.66	21.380		
5,500.0	5,481.2	5,508.7	5,439.8	12.2	17.4	35.54	260.9	791.0	444.8	423.7	21.09	21.089		
5,600.0	5,580.9	5,616.7	5,547.4	12.4	17.6	35.83	263.9	800.1	446.6	425.1	21.51	20.763		
5,700.0	5,680.7	5,724.6	5,655.1	12.6	17.8	36.06	266.3	807.2	448.0	426.1	21.90	20.454		
5,800.0	5,780.6	5,832.7	5,762.9	12.8	18.0	36.23	268.1	812.4	449.0	426.7	22.27	20.161		
5,900.0	5,880.5	5,940.7	5,870.9	13.0	18.2	36.33	269.2	815.6	449.7	427.0	22.62	19.881		
6,000.0	5,980.5	6,048.7	5,978.9	13.1	18.3	36.38	269.6	817.0	449.9	427.0	22.94	19.612		
6,100.0	6,080.5	6,150.3	6,080.5	13.3	18.4	90.04	269.7	817.0	449.9	426.7	23.26	19.344		
6,200.0	6,180.5	6,250.3	6,180.5	13.4	18.5	90.04	269.7	817.0	449.9	426.3	23.58	19.081		
6,300.0	6,280.5	6,350.3	6,280.5	13.5	18.6	90.04	269.7	817.0	449.9	426.0	23.90	18.825		
6,400.0	6,380.5	6,450.3	6,380.5	13.7	18.7	90.04	269.7	817.0	449.9	425.7	24.22	18.576		
6,500.0	6,480.5	6,550.3	6,480.5	13.8	18.8	-89.96	269.7	817.0	449.9	425.4	24.54	18.333		
6,525.7	6,506.2	6,576.0	6,506.2	13.8	18.8	-90.07	269.7	817.0	449.9	425.3	24.59	18.300		
6,600.0	6,579.9	6,649.7	6,579.9	13.9	18.9	-91.19	269.7	817.0	450.0	425.4	24.61	18.290		
6,700.0	6,676.1	6,750.3	6,680.3	13.9	19.0	-93.92	264.6	817.0	451.0	426.7	24.38	18.498		
6,800.0	6,766.1	6,855.7	6,782.9	13.8	19.0	-96.65	241.0	817.0	453.1	429.0	24.13	18.776		
6,900.0	6,847.3	6,965.9	6,883.6	13.8	18.9	-99.22	196.8	817.0	456.1	432.1	23.99	19.013		
7,000.0	6,917.1	7,081.0	6,977.8	13.8	18.9	-101.52	130.9	817.0	459.5	435.4	24.04	19.112		
7,100.0	6,973.4	7,201.0	7,059.9	13.9	18.9	-103.46	43.7	817.0	462.9	438.5	24.37	18.996		
7,200.0	7,014.6	7,325.3	7,123.9	14.3	19.1	-104.92	-62.5	817.0	465.8	440.7	25.03	18.611		
7,300.0	7,039.4	7,452.7	7,164.2	14.8	19.5	-105.83	-183.0	817.0	467.7	441.7	26.04	17.958		
7,400.0	7,047.0	7,579.9	7,177.0	15.5	20.2	-106.12	-309.4	817.0	468.3	440.9	27.43	17.075		
7,500.0	7,047.0	7,679.9	7,177.0	16.4	20.8	-106.12	-409.4	817.0	468.3	439.0	29.28	15.994		
7,600.0	7,047.0	7,779.9	7,177.0	17.4	21.6	-106.12	-509.4	817.0	468.3	436.9	31.38	14.926		
7,700.0	7,047.0	7,879.9	7,177.0	18.5	22.5	-106.12	-609.4	817.0	468.3	434.6	33.68	13.905		
7,800.0	7,047.0	7,979.9	7,177.0	19.7	23.5	-106.12	-709.4	817.0	468.3	432.2	36.15	12.954		
7,900.0	7,047.0	8,079.9	7,177.0	21.0	24.6	-106.12	-809.4	817.0	468.3	429.6	38.76	12.082		
8,000.0	7,047.0	8,179.9	7,177.0	22.4	25.8	-106.12	-909.4	817.0	468.3	426.8	41.48	11.290		
8,100.0	7,047.0	8,279.9	7,177.0	23.8	27.0	-106.12	-1,009.4	817.0	468.3	424.0	44.29	10.574		
8,200.0	7,047.0	8,379.9	7,177.0	25.2	28.3	-106.12	-1,109.4	817.0	468.3	421.2	47.17	9.928		
8,300.0	7,047.0	8,479.9	7,177.0	26.7	29.6	-106.12	-1,209.4	817.0	468.3	418.2	50.12	9.345		
8,400.0	7,047.0	8,579.9	7,177.0	28.2	31.0	-106.12	-1,309.4	817.0	468.3	415.2	53.11	8.818		
8,500.0	7,047.0	8,679.9	7,177.0	29.8	32.4	-106.12	-1,409.4	817.0	468.3	412.2	56.15	8.341		
8,600.0	7,047.0	8,779.9	7,177.0	31.3	33.8	-106.12	-1,509.4	817.0	468.3	409.1	59.22	7.908		
8,700.0	7,047.0	8,879.9	7,177.0	32.9	35.3	-106.12	-1,609.4	817.0	468.3	406.0	62.33	7.514		
8,800.0	7,047.0	8,979.9	7,177.0	34.5	36.8	-106.12	-1,709.4	817.0	468.3	402.9	65.46	7.154		
8,900.0	7,047.0	9,079.9	7,177.0	36.1	38.3	-106.12	-1,809.4	817.0	468.3	399.7	68.61	6.826		
9,000.0	7,047.0	9,179.9	7,177.0	37.8	39.9	-106.12	-1,909.4	817.0	468.3	396.5	71.79	6.524		
9,100.0	7,047.0	9,279.9	7,177.0	39.4	41.4	-106.12	-2,009.4	817.0	468.3	393.3	74.98	6.246		
9,200.0	7,047.0	9,379.9	7,177.0	41.0	43.0	-106.12	-2,109.4	817.0	468.3	390.1	78.18	5.990		
9,300.0	7,047.0	9,479.9	7,177.0	42.7	44.6	-106.12	-2,209.4	817.0	468.3	386.9	81.40	5.753		
9,400.0	7,047.0	9,579.9	7,177.0	44.4	46.2	-106.12	-2,309.4	817.0	468.3	383.7	84.63	5.533		
9,500.0	7,047.0	9,679.9	7,177.0	46.0	47.8	-106.12	-2,409.4	817.0	468.3	380.4	87.88	5.329		
9,600.0	7,047.0	9,779.9	7,177.0	47.7	49.4	-106.12	-2,509.4	817.0	468.3	377.2	91.13	5.139		
9,700.0	7,047.0	9,879.9	7,177.0	49.4	51.0	-106.12	-2,609.4	817.0	468.3	373.9	94.39	4.962		
9,800.0	7,047.0	9,979.9	7,177.0	51.1	52.7	-106.12	-2,709.4	817.0	468.3	370.7	97.66	4.796		
9,900.0	7,047.0	10,079.9	7,177.0	52.8	54.3	-106.12	-2,809.4	817.0	468.3	367.4	100.93	4.640		
10,000.0	7,047.0	10,179.9	7,177.0	54.5	56.0	-106.12	-2,909.4	817.0	468.3	364.1	104.21	4.494		
10,100.0	7,047.0	10,279.9	7,177.0	56.2	57.6	-106.12	-3,009.4	817.0	468.3	360.8	107.50	4.357		

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 Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - HZ - 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	7,047.0	10,379.9	7,177.0	57.9	59.3	-106.12	-3,109.4	817.0	468.3	357.5	110.79	4.227		
10,300.0	7,047.0	10,479.9	7,177.0	59.6	60.9	-106.12	-3,209.4	817.0	468.3	354.2	114.08	4.105		
10,400.0	7,047.0	10,579.9	7,177.0	61.3	62.6	-106.12	-3,309.4	817.0	468.3	350.9	117.39	3.990		
10,500.0	7,047.0	10,679.9	7,177.0	63.0	64.3	-106.12	-3,409.4	817.0	468.3	347.6	120.69	3.880		
10,600.0	7,047.0	10,779.9	7,177.0	64.7	66.0	-106.12	-3,509.4	817.0	468.3	344.3	124.00	3.777		
10,700.0	7,047.0	10,879.9	7,177.0	66.4	67.6	-106.12	-3,609.4	817.0	468.3	341.0	127.31	3.679		
10,800.0	7,047.0	10,979.9	7,177.0	68.1	69.3	-106.12	-3,709.4	817.0	468.3	337.7	130.62	3.585		
10,900.0	7,047.0	11,079.9	7,177.0	69.8	71.0	-106.12	-3,809.4	817.0	468.3	334.4	133.94	3.496		
11,000.0	7,047.0	11,179.9	7,177.0	71.6	72.7	-106.12	-3,909.4	817.0	468.3	331.0	137.26	3.412		
11,100.0	7,047.0	11,279.9	7,177.0	73.3	74.4	-106.12	-4,009.4	817.0	468.3	327.7	140.58	3.331		
11,200.0	7,047.0	11,379.9	7,177.0	75.0	76.1	-106.12	-4,109.4	817.0	468.3	324.4	143.91	3.254		
11,300.0	7,047.0	11,479.9	7,177.0	76.7	77.8	-106.12	-4,209.4	817.0	468.3	321.1	147.24	3.181		
11,400.0	7,047.0	11,579.9	7,177.0	78.5	79.5	-106.12	-4,309.4	817.0	468.3	317.7	150.56	3.110		
11,500.0	7,047.0	11,679.9	7,177.0	80.2	81.2	-106.12	-4,409.4	817.0	468.3	314.4	153.89	3.043		
11,600.0	7,047.0	11,779.9	7,177.0	81.9	82.9	-106.12	-4,509.4	817.0	468.3	311.1	157.23	2.979		
11,646.6	7,047.0	11,826.5	7,177.0	82.7	83.7	-106.12	-4,556.0	817.0	468.3	309.5	158.78	2.949 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2J-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4985.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4985.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2J-32H-C264	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4985.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Newman 2J-32H-C264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

