



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2F-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 2F-32H-C264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,150.64 ft	Latitude:	40.101467
	+E/-W	0.0 ft	Easting:	3,257,772.03 ft	Longitude:	-104.578526
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,954.0 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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,116.7	6.67	298.24	1,115.2	18.3	-34.1	1.00	1.00	0.00	298.24	
5,365.0	6.67	298.24	5,334.8	251.7	-468.7	0.00	0.00	0.00	0.00	
6,031.7	0.00	0.00	6,000.0	270.0	-502.8	1.00	-1.00	0.00	180.00	
6,634.8	0.00	0.00	6,603.0	270.0	-502.8	0.00	0.00	0.00	0.00	
7,534.8	90.00	180.00	7,176.0	-303.0	-502.8	10.00	10.00	0.00	180.00	
11,783.1	90.00	180.00	7,176.0	-4,551.2	-502.8	0.00	0.00	0.00	0.00	Newman 2F-32H-C264

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Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2F-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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	KOP @ 450'
500.0	0.50	298.24	500.0	0.1	-0.2	-0.1	1.00	1.00	
600.0	1.50	298.24	600.0	0.9	-1.7	-0.9	1.00	1.00	
700.0	2.50	298.24	699.9	2.6	-4.8	-2.6	1.00	1.00	
800.0	3.50	298.24	799.8	5.1	-9.4	-5.1	1.00	1.00	
900.0	4.50	298.24	899.5	8.4	-15.6	-8.4	1.00	1.00	
959.7	5.10	298.24	959.0	10.7	-20.0	-10.7	1.00	1.00	Fox Hills - BASE
1,000.0	5.50	298.24	999.2	12.5	-23.2	-12.5	1.00	1.00	
1,100.0	6.50	298.24	1,098.6	17.4	-32.4	-17.4	1.00	1.00	
1,116.7	6.67	298.24	1,115.2	18.3	-34.1	-18.3	1.00	1.00	EOB; Inc=6.67°
1,200.0	6.67	298.24	1,197.9	22.9	-42.7	-22.9	0.00	0.00	
1,300.0	6.67	298.24	1,297.3	28.4	-52.9	-28.4	0.00	0.00	
1,400.0	6.67	298.24	1,396.6	33.9	-63.1	-33.9	0.00	0.00	
1,500.0	6.67	298.24	1,495.9	39.4	-73.3	-39.4	0.00	0.00	
1,600.0	6.67	298.24	1,595.2	44.9	-83.6	-44.9	0.00	0.00	
1,700.0	6.67	298.24	1,694.6	50.4	-93.8	-50.4	0.00	0.00	
1,800.0	6.67	298.24	1,793.9	55.9	-104.0	-55.9	0.00	0.00	
1,900.0	6.67	298.24	1,893.2	61.4	-114.3	-61.4	0.00	0.00	
2,000.0	6.67	298.24	1,992.5	66.8	-124.5	-66.8	0.00	0.00	
2,100.0	6.67	298.24	2,091.8	72.3	-134.7	-72.3	0.00	0.00	
2,200.0	6.67	298.24	2,191.2	77.8	-144.9	-77.8	0.00	0.00	
2,300.0	6.67	298.24	2,290.5	83.3	-155.2	-83.3	0.00	0.00	
2,400.0	6.67	298.24	2,389.8	88.8	-165.4	-88.8	0.00	0.00	
2,500.0	6.67	298.24	2,489.1	94.3	-175.6	-94.3	0.00	0.00	
2,600.0	6.67	298.24	2,588.5	99.8	-185.9	-99.8	0.00	0.00	
2,700.0	6.67	298.24	2,687.8	105.3	-196.1	-105.3	0.00	0.00	
2,800.0	6.67	298.24	2,787.1	110.8	-206.3	-110.8	0.00	0.00	
2,900.0	6.67	298.24	2,886.4	116.3	-216.5	-116.3	0.00	0.00	
3,000.0	6.67	298.24	2,985.8	121.8	-226.8	-121.8	0.00	0.00	
3,100.0	6.67	298.24	3,085.1	127.3	-237.0	-127.3	0.00	0.00	
3,200.0	6.67	298.24	3,184.4	132.8	-247.2	-132.8	0.00	0.00	
3,300.0	6.67	298.24	3,283.7	138.2	-257.4	-138.2	0.00	0.00	
3,400.0	6.67	298.24	3,383.1	143.7	-267.7	-143.7	0.00	0.00	
3,500.0	6.67	298.24	3,482.4	149.2	-277.9	-149.2	0.00	0.00	
3,600.0	6.67	298.24	3,581.7	154.7	-288.1	-154.7	0.00	0.00	
3,700.0	6.67	298.24	3,681.0	160.2	-298.4	-160.2	0.00	0.00	
3,800.0	6.67	298.24	3,780.4	165.7	-308.6	-165.7	0.00	0.00	
3,900.0	6.67	298.24	3,879.7	171.2	-318.8	-171.2	0.00	0.00	
4,000.0	6.67	298.24	3,979.0	176.7	-329.0	-176.7	0.00	0.00	
4,100.0	6.67	298.24	4,078.3	182.2	-339.3	-182.2	0.00	0.00	
4,200.0	6.67	298.24	4,177.6	187.7	-349.5	-187.7	0.00	0.00	
4,300.0	6.67	298.24	4,277.0	193.2	-359.7	-193.2	0.00	0.00	
4,400.0	6.67	298.24	4,376.3	198.7	-370.0	-198.7	0.00	0.00	
4,424.9	6.67	298.24	4,401.0	200.0	-372.5	-200.0	0.00	0.00	Sussex
4,500.0	6.67	298.24	4,475.6	204.2	-380.2	-204.2	0.00	0.00	
4,600.0	6.67	298.24	4,574.9	209.7	-390.4	-209.7	0.00	0.00	
4,682.6	6.67	298.24	4,657.0	214.2	-398.9	-214.2	0.00	0.00	Sussex Marker

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Well:	Newman 2F-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	6.67	298.24	4,674.3	215.1	-400.6	-215.1	0.00	0.00	
4,800.0	6.67	298.24	4,773.6	220.6	-410.9	-220.6	0.00	0.00	
4,900.0	6.67	298.24	4,872.9	226.1	-421.1	-226.1	0.00	0.00	
5,000.0	6.67	298.24	4,972.2	231.6	-431.3	-231.6	0.00	0.00	
5,006.8	6.67	298.24	4,979.0	232.0	-432.0	-232.0	0.00	0.00	Shannon
5,100.0	6.67	298.24	5,071.6	237.1	-441.6	-237.1	0.00	0.00	
5,200.0	6.67	298.24	5,170.9	242.6	-451.8	-242.6	0.00	0.00	
5,300.0	6.67	298.24	5,270.2	248.1	-462.0	-248.1	0.00	0.00	
5,365.0	6.67	298.24	5,334.8	251.7	-468.7	-251.7	0.00	0.00	Start Drop -1.00
5,400.0	6.32	298.24	5,369.5	253.5	-472.1	-253.5	1.00	-1.00	
5,500.0	5.32	298.24	5,469.0	258.3	-481.1	-258.3	1.00	-1.00	
5,600.0	4.32	298.24	5,568.7	262.3	-488.5	-262.3	1.00	-1.00	
5,700.0	3.32	298.24	5,668.5	265.5	-494.3	-265.5	1.00	-1.00	
5,800.0	2.32	298.24	5,768.3	267.8	-498.7	-267.8	1.00	-1.00	
5,900.0	1.32	298.24	5,868.3	269.3	-501.5	-269.3	1.00	-1.00	
6,000.0	0.32	298.24	5,968.3	270.0	-502.7	-270.0	1.00	-1.00	
6,031.7	0.00	0.00	6,000.0	270.0	-502.8	-270.0	1.00	-1.00	EOD; Inc=0°
6,100.0	0.00	0.00	6,068.3	270.0	-502.8	-270.0	0.00	0.00	
6,115.7	0.00	0.00	6,084.0	270.0	-502.8	-270.0	0.00	0.00	Teepee Buttes (*if present)
6,200.0	0.00	0.00	6,168.3	270.0	-502.8	-270.0	0.00	0.00	
6,300.0	0.00	0.00	6,268.3	270.0	-502.8	-270.0	0.00	0.00	
6,400.0	0.00	0.00	6,368.3	270.0	-502.8	-270.0	0.00	0.00	
6,500.0	0.00	0.00	6,468.3	270.0	-502.8	-270.0	0.00	0.00	
6,600.0	0.00	0.00	6,568.3	270.0	-502.8	-270.0	0.00	0.00	
6,634.8	0.00	0.00	6,603.0	270.0	-502.8	-270.0	0.00	0.00	Start Build 10.00
6,700.0	6.52	180.00	6,668.1	266.3	-502.8	-266.3	10.00	10.00	
6,800.0	16.52	180.00	6,766.0	246.3	-502.8	-246.3	10.00	10.00	
6,870.3	23.55	180.00	6,832.0	222.3	-502.8	-222.3	10.00	10.00	Sharon Springs
6,900.0	26.52	180.00	6,858.9	209.7	-502.8	-209.7	10.00	10.00	
6,902.4	26.76	180.00	6,861.0	208.6	-502.8	-208.6	10.00	10.00	Niobrara
7,000.0	36.52	180.00	6,944.0	157.5	-502.8	-157.5	10.00	10.00	
7,001.2	36.64	180.00	6,945.0	156.8	-502.8	-156.8	10.00	10.00	B Chalk
7,030.4	39.57	180.00	6,968.0	138.7	-502.8	-138.7	10.00	10.00	B Marl
7,100.0	46.52	180.00	7,018.8	91.3	-502.8	-91.3	10.00	10.00	
7,100.3	46.55	180.00	7,019.0	91.1	-502.8	-91.1	10.00	10.00	C Chalk
7,149.1	51.43	180.00	7,051.0	54.3	-502.8	-54.3	10.00	10.00	C Marl
7,200.0	56.52	180.00	7,080.9	13.1	-502.8	-13.1	10.00	10.00	
7,300.0	66.52	180.00	7,128.6	-74.7	-502.8	74.7	10.00	10.00	
7,371.9	73.71	180.00	7,153.0	-142.2	-502.8	142.2	10.00	10.00	Ft. Hayes
7,400.0	76.52	180.00	7,160.2	-169.4	-502.8	169.4	10.00	10.00	
7,427.6	79.28	180.00	7,166.0	-196.4	-502.8	196.4	10.00	10.00	Codell
7,500.0	86.52	180.00	7,174.9	-268.2	-502.8	268.2	10.00	10.00	
7,534.8	90.00	180.00	7,176.0	-303.0	-502.8	303.0	10.00	10.00	LP @ 7176' TVD; 90°
7,600.0	90.00	180.00	7,176.0	-368.2	-502.8	368.2	0.00	0.00	
7,700.0	90.00	180.00	7,176.0	-468.2	-502.8	468.2	0.00	0.00	
7,800.0	90.00	180.00	7,176.0	-568.2	-502.8	568.2	0.00	0.00	
7,900.0	90.00	180.00	7,176.0	-668.2	-502.8	668.2	0.00	0.00	
8,000.0	90.00	180.00	7,176.0	-768.2	-502.8	768.2	0.00	0.00	
8,100.0	90.00	180.00	7,176.0	-868.2	-502.8	868.2	0.00	0.00	
8,200.0	90.00	180.00	7,176.0	-968.2	-502.8	968.2	0.00	0.00	
8,300.0	90.00	180.00	7,176.0	-1,068.2	-502.8	1,068.2	0.00	0.00	
8,400.0	90.00	180.00	7,176.0	-1,168.2	-502.8	1,168.2	0.00	0.00	

Planning Report

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2F-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
8,500.0	90.00	180.00	7,176.0	-1,268.2	-502.8	1,268.2	0.00	0.00	
8,600.0	90.00	180.00	7,176.0	-1,368.2	-502.8	1,368.2	0.00	0.00	
8,700.0	90.00	180.00	7,176.0	-1,468.2	-502.8	1,468.2	0.00	0.00	
8,800.0	90.00	180.00	7,176.0	-1,568.2	-502.8	1,568.2	0.00	0.00	
8,900.0	90.00	180.00	7,176.0	-1,668.2	-502.8	1,668.2	0.00	0.00	
9,000.0	90.00	180.00	7,176.0	-1,768.2	-502.8	1,768.2	0.00	0.00	
9,100.0	90.00	180.00	7,176.0	-1,868.2	-502.8	1,868.2	0.00	0.00	
9,200.0	90.00	180.00	7,176.0	-1,968.2	-502.8	1,968.2	0.00	0.00	
9,300.0	90.00	180.00	7,176.0	-2,068.2	-502.8	2,068.2	0.00	0.00	
9,400.0	90.00	180.00	7,176.0	-2,168.2	-502.8	2,168.2	0.00	0.00	
9,500.0	90.00	180.00	7,176.0	-2,268.2	-502.8	2,268.2	0.00	0.00	
9,600.0	90.00	180.00	7,176.0	-2,368.2	-502.8	2,368.2	0.00	0.00	
9,700.0	90.00	180.00	7,176.0	-2,468.2	-502.8	2,468.2	0.00	0.00	
9,800.0	90.00	180.00	7,176.0	-2,568.2	-502.8	2,568.2	0.00	0.00	
9,900.0	90.00	180.00	7,176.0	-2,668.2	-502.8	2,668.2	0.00	0.00	
10,000.0	90.00	180.00	7,176.0	-2,768.2	-502.8	2,768.2	0.00	0.00	
10,100.0	90.00	180.00	7,176.0	-2,868.2	-502.8	2,868.2	0.00	0.00	
10,200.0	90.00	180.00	7,176.0	-2,968.2	-502.8	2,968.2	0.00	0.00	
10,300.0	90.00	180.00	7,176.0	-3,068.2	-502.8	3,068.2	0.00	0.00	
10,400.0	90.00	180.00	7,176.0	-3,168.2	-502.8	3,168.2	0.00	0.00	
10,500.0	90.00	180.00	7,176.0	-3,268.2	-502.8	3,268.2	0.00	0.00	
10,600.0	90.00	180.00	7,176.0	-3,368.2	-502.8	3,368.2	0.00	0.00	
10,700.0	90.00	180.00	7,176.0	-3,468.2	-502.8	3,468.2	0.00	0.00	
10,800.0	90.00	180.00	7,176.0	-3,568.2	-502.8	3,568.2	0.00	0.00	
10,900.0	90.00	180.00	7,176.0	-3,668.2	-502.8	3,668.2	0.00	0.00	
11,000.0	90.00	180.00	7,176.0	-3,768.2	-502.8	3,768.2	0.00	0.00	
11,100.0	90.00	180.00	7,176.0	-3,868.2	-502.8	3,868.2	0.00	0.00	
11,200.0	90.00	180.00	7,176.0	-3,968.2	-502.8	3,968.2	0.00	0.00	
11,300.0	90.00	180.00	7,176.0	-4,068.2	-502.8	4,068.2	0.00	0.00	
11,400.0	90.00	180.00	7,176.0	-4,168.2	-502.8	4,168.2	0.00	0.00	
11,500.0	90.00	180.00	7,176.0	-4,268.2	-502.8	4,268.2	0.00	0.00	
11,600.0	90.00	180.00	7,176.0	-4,368.2	-502.8	4,368.2	0.00	0.00	
11,700.0	90.00	180.00	7,176.0	-4,468.2	-502.8	4,468.2	0.00	0.00	
11,783.1	90.00	180.00	7,176.0	-4,551.2	-502.8	4,551.2	0.00	0.00	TD at 11783.1

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 2F-32H-C264 I	0.00	0.00	7,176.0	-4,551.2	-502.8	1,276,594.41	3,257,316.57	40.088973	-104.580323
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site:	S32-T2N-R64W (Newman)	North Reference:	True
Well:	Newman 2F-32H-C264	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
959.7	959.0	Fox Hills - BASE		0.00		
4,424.9	4,401.0	Sussex		0.00		
4,682.6	4,657.0	Sussex Marker		0.00		
5,006.8	4,979.0	Shannon		0.00		
6,115.7	6,084.0	Teepee Buttes (*if present)		0.00		
6,870.3	6,832.0	Sharon Springs		0.00		
6,902.4	6,861.0	Niobrara		0.00		
7,001.2	6,945.0	B Chalk		0.00		
7,030.4	6,968.0	B Marl		0.00		
7,100.3	7,019.0	C Chalk		0.00		
7,149.1	7,051.0	C Marl		0.00		
7,371.9	7,153.0	Ft. Hayes		0.00		
7,427.6	7,166.0	Codell		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
450.0	450.0	0.0	0.0	KOP @ 450'	
1,116.7	1,115.2	18.3	-34.1	EOB; Inc=6.67°	
5,365.0	5,334.8	251.7	-468.7	Start Drop -1.00	
6,031.7	6,000.0	270.0	-502.8	EOD; Inc=0°	
6,634.8	6,603.0	270.0	-502.8	Start Build 10.00	
7,534.8	7,176.0	-303.0	-502.8	LP @ 7176' TVD; 90°	
11,783.1	7,176.0	-4,551.2	-502.8	TD at 11783.1	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R64W (Newman)

Newman 2F-32H-C264

HZ

Plan #1

Anticollision Report

04 April, 2014

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	11,783.1	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
S32-T2N-R64W (Newman)						
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE	8,244.1	7,125.0	211.9	176.3	5.965	CC, ES, SF
Newman 2A-32H-C264 - HZ - Plan #1	200.0	198.0	37.5	36.9	63.546	CC, ES
Newman 2A-32H-C264 - HZ - Plan #1	600.0	590.7	62.7	60.7	31.711	SF
Newman 2B-32H-C264 - HZ - Plan #1	234.7	233.7	29.9	29.2	42.006	CC, ES
Newman 2B-32H-C264 - HZ - Plan #1	11,783.1	11,708.3	926.8	766.5	5.780	SF
Newman 2C-32H-C264 - HZ - Plan #1	300.0	299.0	22.4	21.4	23.789	CC, ES
Newman 2C-32H-C264 - HZ - Plan #1	11,783.1	11,876.5	665.1	500.2	4.034	SF
Newman 2D-32H-C264 - HZ - Plan #1	334.7	333.7	14.8	13.8	13.962	CC, ES
Newman 2D-32H-C264 - HZ - Plan #1	11,783.1	11,707.0	468.3	309.6	2.950	SF
Newman 2E-32H-C264 - HZ - Plan #1	400.0	399.0	7.3	6.0	5.639	CC, ES
Newman 2E-32H-C264 - HZ - Plan #1	11,783.1	11,586.8	315.4	194.9	2.618	SF
Newman 2G-32H-C264 - HZ - Plan #1	400.0	400.0	7.6	6.3	5.848	CC
Newman 2G-32H-C264 - HZ - Plan #1	500.0	500.0	7.7	6.1	4.721	ES
Newman 2G-32H-C264 - HZ - Plan #1	11,783.1	11,636.1	259.8	116.0	1.807	SF
Newman 2H-32H-C264 - HZ - Plan #1	400.0	400.0	15.1	13.8	11.699	CC
Newman 2H-32H-C264 - HZ - Plan #1	500.0	500.0	15.2	13.6	9.293	ES
Newman 2H-32H-C264 - HZ - Plan #1	11,783.1	11,537.2	501.2	352.5	3.371	SF
Newman 2I-32H-C264 - HZ - Plan #1	366.3	367.3	22.7	21.5	19.274	CC
Newman 2I-32H-C264 - HZ - Plan #1	400.0	401.0	22.7	21.4	17.522	ES
Newman 2I-32H-C264 - HZ - Plan #1	11,783.1	11,760.8	675.1	510.2	4.095	SF
Newman 2J-32H-C264 - HZ - Plan #1	332.1	333.1	30.2	29.2	28.605	CC
Newman 2J-32H-C264 - HZ - Plan #1	400.0	400.8	30.4	29.1	23.508	ES
Newman 2J-32H-C264 - HZ - Plan #1	11,783.1	11,641.5	909.4	746.2	5.572	SF
Newman 2K-32H-C264 - HZ - Plan #1	266.3	267.3	37.5	36.7	45.345	CC
Newman 2K-32H-C264 - HZ - Plan #1	300.0	301.0	37.5	36.5	39.701	ES
Newman 2K-32H-C264 - HZ - Plan #1	600.0	598.9	46.4	44.4	23.309	SF
Newman 2L-32H-C264 - HZ - Plan #1	232.0	233.0	45.0	44.3	63.725	CC
Newman 2L-32H-C264 - HZ - Plan #1	300.0	300.6	45.3	44.3	47.959	ES
Newman 2L-32H-C264 - HZ - Plan #1	700.0	696.4	66.5	64.2	28.468	SF
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,300.0	7,128.6	7,077.6	7,077.6	15.5	12.4	-29.56	-1,012.3	-290.9	961.2	941.6	19.59	49.071		
7,400.0	7,160.2	7,109.2	7,109.2	15.9	12.4	-47.16	-1,012.3	-290.9	869.1	847.4	21.74	39.979		
7,500.0	7,174.9	7,123.9	7,123.9	16.5	12.4	-77.97	-1,012.3	-290.9	773.7	747.7	25.97	29.786		
7,600.0	7,176.0	7,125.0	7,125.0	17.3	12.4	-90.00	-1,012.3	-290.9	678.1	650.7	27.31	24.826		
7,700.0	7,176.0	7,125.0	7,125.0	18.2	12.4	-90.00	-1,012.3	-290.9	583.9	555.6	28.34	20.604		
7,800.0	7,176.0	7,125.0	7,125.0	19.2	12.4	-90.00	-1,012.3	-290.9	492.1	462.6	29.48	16.689		
7,900.0	7,176.0	7,125.0	7,125.0	20.3	12.4	-90.00	-1,012.3	-290.9	404.1	373.4	30.73	13.151		
8,000.0	7,176.0	7,125.0	7,125.0	21.5	12.4	-90.00	-1,012.3	-290.9	323.2	291.2	32.05	10.086		
8,100.0	7,176.0	7,125.0	7,125.0	22.8	12.4	-90.00	-1,012.3	-290.9	256.2	222.8	33.43	7.664		
8,200.0	7,176.0	7,125.0	7,125.0	24.1	12.4	-90.00	-1,012.3	-290.9	216.4	181.5	34.87	6.206		
8,244.1	7,176.0	7,125.0	7,125.0	24.7	12.4	-90.00	-1,012.3	-290.9	211.9	176.3	35.52	5.965 CC, ES, SF		
8,300.0	7,176.0	7,125.0	7,125.0	25.5	12.4	-90.00	-1,012.3	-290.9	219.1	182.8	36.35	6.028		
8,400.0	7,176.0	7,125.0	7,125.0	26.9	12.4	-90.00	-1,012.3	-290.9	263.0	225.2	37.86	6.948		
8,500.0	7,176.0	7,125.0	7,125.0	28.4	12.4	-90.00	-1,012.3	-290.9	332.2	292.8	39.40	8.431		
8,600.0	7,176.0	7,125.0	7,125.0	29.9	12.4	-90.00	-1,012.3	-290.9	414.2	373.2	40.97	10.110		
8,700.0	7,176.0	7,125.0	7,125.0	31.4	12.4	-90.00	-1,012.3	-290.9	502.7	460.2	42.56	11.813		
8,800.0	7,176.0	7,125.0	7,125.0	32.9	12.4	-90.00	-1,012.3	-290.9	594.9	550.7	44.16	13.471		
8,900.0	7,176.0	7,125.0	7,125.0	34.5	12.4	-90.00	-1,012.3	-290.9	689.3	643.5	45.78	15.055		
9,000.0	7,176.0	7,125.0	7,125.0	36.1	12.4	-90.00	-1,012.3	-290.9	785.0	737.6	47.41	16.556		
9,100.0	7,176.0	7,125.0	7,125.0	37.7	12.4	-90.00	-1,012.3	-290.9	881.7	832.7	49.06	17.973		
9,200.0	7,176.0	7,125.0	7,125.0	39.3	12.4	-90.00	-1,012.3	-290.9	979.1	928.4	50.71	19.306		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	-89.39	0.4	-37.5	37.5					
100.0	100.0	98.0	98.0	0.1	0.1	-89.39	0.4	-37.5	37.5	37.2	0.24	154.967		
200.0	200.0	198.0	198.0	0.3	0.3	-89.39	0.4	-37.5	37.5	36.9	0.59	63.546	CC, ES	
300.0	300.0	296.7	296.7	0.5	0.5	-88.99	0.7	-39.1	39.1	38.2	0.94	41.654		
400.0	400.0	395.2	395.0	0.6	0.7	-87.97	1.6	-44.0	44.2	42.9	1.30	33.990		
500.0	500.0	493.2	492.7	0.8	0.9	-25.00	3.0	-52.2	52.4	50.8	1.63	32.151		
600.0	600.0	590.7	589.5	1.0	1.1	-24.35	5.1	-63.7	62.7	60.7	1.98	31.711	SF	
700.0	699.9	687.7	685.3	1.2	1.4	-24.14	7.6	-78.3	74.7	72.4	2.32	32.162		
800.0	799.8	784.0	780.0	1.4	1.8	-24.20	10.8	-95.9	88.5	85.8	2.67	33.134		
900.0	899.5	879.6	873.3	1.6	2.2	-24.41	14.4	-116.5	104.0	101.0	3.02	34.424		
1,000.0	999.2	974.4	965.0	1.8	2.7	-24.70	18.6	-139.9	121.2	117.8	3.37	35.907		
1,100.0	1,098.6	1,068.4	1,055.1	2.0	3.2	-25.03	23.2	-166.1	140.0	136.3	3.73	37.504		
1,200.0	1,197.9	1,166.3	1,148.6	2.2	3.7	-25.44	28.4	-194.9	159.6	155.5	4.11	38.847		
1,300.0	1,297.3	1,264.4	1,242.2	2.5	4.2	-25.78	33.5	-223.8	179.1	174.6	4.49	39.930		
1,400.0	1,396.6	1,362.5	1,335.8	2.7	4.8	-26.05	38.6	-252.7	198.6	193.7	4.87	40.822		
1,500.0	1,495.9	1,460.5	1,429.3	3.0	5.3	-26.27	43.8	-281.6	218.1	212.9	5.25	41.569		
1,600.0	1,595.2	1,558.6	1,522.9	3.3	5.9	-26.46	48.9	-310.5	237.7	232.0	5.63	42.202		
1,700.0	1,694.6	1,656.7	1,616.5	3.5	6.4	-26.61	54.0	-339.4	257.2	251.2	6.02	42.743		
1,800.0	1,793.9	1,754.8	1,710.1	3.8	7.0	-26.75	59.2	-368.4	276.7	270.3	6.40	43.212		
1,900.0	1,893.2	1,852.8	1,803.6	4.0	7.6	-26.86	64.3	-397.3	296.3	289.5	6.79	43.620		
2,000.0	1,992.5	1,950.9	1,897.2	4.3	8.1	-26.97	69.4	-426.2	315.8	308.6	7.18	43.979		
2,100.0	2,091.8	2,049.0	1,990.8	4.6	8.7	-27.06	74.6	-455.1	335.3	327.7	7.57	44.297		
2,200.0	2,191.2	2,147.0	2,084.4	4.8	9.2	-27.14	79.7	-484.0	354.9	346.9	7.96	44.580		
2,300.0	2,290.5	2,245.1	2,177.9	5.1	9.8	-27.21	84.8	-512.9	374.4	366.0	8.35	44.834		
2,400.0	2,389.8	2,343.2	2,271.5	5.3	10.3	-27.28	90.0	-541.8	393.9	385.2	8.74	45.062		
2,500.0	2,489.1	2,441.3	2,365.1	5.6	10.9	-27.33	95.1	-570.7	413.5	404.3	9.13	45.269		
2,600.0	2,588.5	2,539.3	2,458.7	5.9	11.5	-27.39	100.2	-599.6	433.0	423.5	9.53	45.457		
2,700.0	2,687.8	2,637.4	2,552.2	6.1	12.0	-27.44	105.4	-628.5	452.5	442.6	9.92	45.629		
2,800.0	2,787.1	2,735.5	2,645.8	6.4	12.6	-27.48	110.5	-657.4	472.1	461.8	10.31	45.786		
2,900.0	2,886.4	2,833.6	2,739.4	6.7	13.1	-27.52	115.6	-686.3	491.6	480.9	10.70	45.931		
3,000.0	2,985.8	2,931.6	2,833.0	6.9	13.7	-27.56	120.8	-715.2	511.1	500.1	11.10	46.065		
3,100.0	3,085.1	3,029.7	2,926.6	7.2	14.3	-27.60	125.9	-744.1	530.7	519.2	11.49	46.188		
3,200.0	3,184.4	3,127.8	3,020.1	7.5	14.8	-27.63	131.0	-773.0	550.2	538.3	11.88	46.303		
3,300.0	3,283.7	3,225.8	3,113.7	7.7	15.4	-27.66	136.2	-801.9	569.8	557.5	12.28	46.409		
3,400.0	3,383.1	3,323.9	3,207.3	8.0	15.9	-27.69	141.3	-830.8	589.3	576.6	12.67	46.508		
3,500.0	3,482.4	3,422.0	3,300.9	8.3	16.5	-27.72	146.4	-859.7	608.8	595.8	13.06	46.601		
3,600.0	3,581.7	3,520.1	3,394.4	8.5	17.1	-27.74	151.6	-888.6	628.4	614.9	13.46	46.688		
3,700.0	3,681.0	3,618.1	3,488.0	8.8	17.6	-27.76	156.7	-917.5	647.9	634.1	13.85	46.770		
3,800.0	3,780.4	3,716.2	3,581.6	9.1	18.2	-27.79	161.8	-946.4	667.5	653.2	14.25	46.846		
3,900.0	3,879.7	3,814.3	3,675.2	9.3	18.7	-27.81	167.0	-975.3	687.0	672.4	14.64	46.919		
4,000.0	3,979.0	3,912.3	3,768.7	9.6	19.3	-27.83	172.1	-1,004.2	706.5	691.5	15.04	46.987		
4,100.0	4,078.3	4,010.4	3,862.3	9.9	19.9	-27.85	177.2	-1,033.1	726.1	710.6	15.43	47.051		
4,200.0	4,177.6	4,108.5	3,955.9	10.1	20.4	-27.86	182.3	-1,062.0	745.6	729.8	15.83	47.112		
4,300.0	4,277.0	4,206.6	4,049.5	10.4	21.0	-27.88	187.5	-1,090.9	765.2	748.9	16.22	47.170		
4,400.0	4,376.3	4,304.6	4,143.0	10.7	21.5	-27.90	192.6	-1,119.8	784.7	768.1	16.62	47.225		
4,500.0	4,475.6	4,402.7	4,236.6	10.9	22.1	-27.91	197.7	-1,148.7	804.2	787.2	17.01	47.277		
4,600.0	4,574.9	4,500.8	4,330.2	11.2	22.7	-27.93	202.9	-1,177.6	823.8	806.4	17.41	47.326		
4,700.0	4,674.3	4,598.9	4,423.8	11.5	23.2	-27.94	208.0	-1,206.5	843.3	825.5	17.80	47.374		
4,800.0	4,773.6	4,696.9	4,517.3	11.7	23.8	-27.95	213.1	-1,235.4	862.9	844.7	18.20	47.419		
4,900.0	4,872.9	4,795.0	4,610.9	12.0	24.3	-27.97	218.3	-1,264.3	882.4	863.8	18.59	47.462		
5,000.0	4,972.2	4,893.1	4,704.5	12.3	24.9	-27.98	223.4	-1,293.2	901.9	882.9	18.99	47.503		
5,100.0	5,071.6	4,991.1	4,798.1	12.5	25.5	-27.99	228.5	-1,322.1	921.5	902.1	19.38	47.542		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,170.9	5,089.2	4,891.7	12.8	26.0	-28.00	233.7	-1,351.0	941.0	921.2	19.78	47.579	
5,300.0	5,270.2	5,187.3	4,985.2	13.1	26.6	-28.01	238.8	-1,379.9	960.6	940.4	20.17	47.615	
5,400.0	5,369.5	5,285.3	5,078.8	13.3	27.1	-28.05	243.9	-1,408.8	980.2	959.6	20.57	47.654	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			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	-89.25	0.4	-29.9	30.0					
100.0	100.0	99.0	99.0	0.1	0.1	-89.25	0.4	-29.9	29.9	29.7	0.24	123.124		
200.0	200.0	199.0	199.0	0.3	0.3	-89.25	0.4	-29.9	29.9	29.3	0.59	50.593		
234.7	234.7	233.7	233.7	0.4	0.4	-89.25	0.4	-29.9	29.9	29.2	0.71	42.006	CC, ES	
300.0	300.0	298.5	298.5	0.5	0.5	-89.11	0.5	-30.3	30.3	29.4	0.94	32.279		
400.0	400.0	397.4	397.3	0.6	0.6	-88.09	1.1	-33.6	33.7	32.4	1.29	26.086		
500.0	500.0	495.9	495.6	0.8	0.9	-24.90	2.4	-40.3	40.3	38.7	1.63	24.660		
600.0	600.0	594.0	593.2	1.0	1.1	-24.11	4.4	-50.2	48.9	46.9	1.98	24.688		
700.0	699.9	691.6	689.9	1.2	1.4	-23.83	6.9	-63.3	59.3	57.0	2.33	25.473		
800.0	799.8	788.7	785.5	1.4	1.7	-23.86	10.1	-79.5	71.5	68.8	2.68	26.701		
900.0	899.5	885.1	879.9	1.6	2.1	-24.06	13.9	-98.7	85.4	82.4	3.03	28.197		
1,000.0	999.2	980.8	972.9	1.8	2.5	-24.35	18.3	-120.9	101.0	97.7	3.38	29.855		
1,100.0	1,098.6	1,077.2	1,065.8	2.0	3.0	-24.69	23.2	-146.1	118.1	114.4	3.75	31.517		
1,200.0	1,197.9	1,175.8	1,160.7	2.2	3.5	-25.17	28.4	-172.3	134.8	130.6	4.12	32.690		
1,300.0	1,297.3	1,274.4	1,255.6	2.5	3.9	-25.56	33.6	-198.6	151.4	146.9	4.50	33.637		
1,400.0	1,396.6	1,373.0	1,350.5	2.7	4.4	-25.86	38.7	-224.9	168.0	163.1	4.88	34.419		
1,500.0	1,495.9	1,471.6	1,445.4	3.0	5.0	-26.12	43.9	-251.2	184.7	179.4	5.27	35.073		
1,600.0	1,595.2	1,570.2	1,540.3	3.3	5.5	-26.33	49.1	-277.5	201.3	195.7	5.65	35.627		
1,700.0	1,694.6	1,668.8	1,635.2	3.5	6.0	-26.51	54.2	-303.7	217.9	211.9	6.04	36.101		
1,800.0	1,793.9	1,767.4	1,730.1	3.8	6.5	-26.66	59.4	-330.0	234.6	228.2	6.43	36.511		
1,900.0	1,893.2	1,866.0	1,825.0	4.0	7.0	-26.79	64.6	-356.3	251.2	244.4	6.81	36.869		
2,000.0	1,992.5	1,964.6	1,919.9	4.3	7.5	-26.91	69.7	-382.6	267.9	260.7	7.20	37.184		
2,100.0	2,091.8	2,063.2	2,014.8	4.6	8.0	-27.01	74.9	-408.9	284.5	276.9	7.60	37.462		
2,200.0	2,191.2	2,161.8	2,109.7	4.8	8.5	-27.11	80.1	-435.2	301.2	293.2	7.99	37.711		
2,300.0	2,290.5	2,260.4	2,204.6	5.1	9.0	-27.19	85.3	-461.4	317.8	309.5	8.38	37.933		
2,400.0	2,389.8	2,359.0	2,299.5	5.3	9.5	-27.26	90.4	-487.7	334.5	325.7	8.77	38.134		
2,500.0	2,489.1	2,457.6	2,394.3	5.6	10.0	-27.33	95.6	-514.0	351.2	342.0	9.16	38.315		
2,600.0	2,588.5	2,556.2	2,489.2	5.9	10.6	-27.39	100.8	-540.3	367.8	358.2	9.56	38.480		
2,700.0	2,687.8	2,654.8	2,584.1	6.1	11.1	-27.45	105.9	-566.6	384.5	374.5	9.95	38.630		
2,800.0	2,787.1	2,753.4	2,679.0	6.4	11.6	-27.50	111.1	-592.9	401.1	390.8	10.35	38.768		
2,900.0	2,886.4	2,852.0	2,773.9	6.7	12.1	-27.54	116.3	-619.1	417.8	407.0	10.74	38.895		
3,000.0	2,985.8	2,950.6	2,868.8	6.9	12.6	-27.59	121.4	-645.4	434.4	423.3	11.14	39.012		
3,100.0	3,085.1	3,049.3	2,963.7	7.2	13.1	-27.63	126.6	-671.7	451.1	439.5	11.53	39.120		
3,200.0	3,184.4	3,147.9	3,058.6	7.5	13.6	-27.66	131.8	-698.0	467.7	455.8	11.93	39.221		
3,300.0	3,283.7	3,246.5	3,153.5	7.7	14.1	-27.70	136.9	-724.3	484.4	472.1	12.32	39.314		
3,400.0	3,383.1	3,345.1	3,248.4	8.0	14.6	-27.73	142.1	-750.6	501.0	488.3	12.72	39.401		
3,500.0	3,482.4	3,443.7	3,343.3	8.3	15.2	-27.76	147.3	-776.8	517.7	504.6	13.11	39.483		
3,600.0	3,581.7	3,542.3	3,438.2	8.5	15.7	-27.79	152.4	-803.1	534.4	520.8	13.51	39.559		
3,700.0	3,681.0	3,640.9	3,533.1	8.8	16.2	-27.82	157.6	-829.4	551.0	537.1	13.90	39.631		
3,800.0	3,780.4	3,739.5	3,628.0	9.1	16.7	-27.84	162.8	-855.7	567.7	553.4	14.30	39.698		
3,900.0	3,879.7	3,838.1	3,722.9	9.3	17.2	-27.86	168.0	-882.0	584.3	569.6	14.70	39.761		
4,000.0	3,979.0	3,936.7	3,817.8	9.6	17.7	-27.89	173.1	-908.3	601.0	585.9	15.09	39.821		
4,100.0	4,078.3	4,035.3	3,912.7	9.9	18.2	-27.91	178.3	-934.5	617.6	602.1	15.49	39.877		
4,200.0	4,177.6	4,133.9	4,007.6	10.1	18.7	-27.93	183.5	-960.8	634.3	618.4	15.88	39.931		
4,300.0	4,277.0	4,232.5	4,102.5	10.4	19.3	-27.95	188.6	-987.1	650.9	634.7	16.28	39.981		
4,400.0	4,376.3	4,331.1	4,197.3	10.7	19.8	-27.97	193.8	-1,013.4	667.6	650.9	16.68	40.029		
4,500.0	4,475.6	4,429.7	4,292.2	10.9	20.3	-27.98	199.0	-1,039.7	684.3	667.2	17.07	40.075		
4,600.0	4,574.9	4,528.3	4,387.1	11.2	20.8	-28.00	204.1	-1,066.0	700.9	683.4	17.47	40.119		
4,700.0	4,674.3	4,626.9	4,482.0	11.5	21.3	-28.01	209.3	-1,092.2	717.6	699.7	17.87	40.160		
4,800.0	4,773.6	4,725.5	4,576.9	11.7	21.8	-28.03	214.5	-1,118.5	734.2	716.0	18.26	40.199		
4,900.0	4,872.9	4,824.1	4,671.8	12.0	22.3	-28.04	219.6	-1,144.8	750.9	732.2	18.66	40.237		
5,000.0	4,972.2	4,922.7	4,766.7	12.3	22.9	-28.06	224.8	-1,171.1	767.5	748.5	19.06	40.273		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,071.6	5,021.3	4,861.6	12.5	23.4	-28.07	230.0	-1,197.4	784.2	764.7	19.46	40.308		
5,200.0	5,170.9	5,119.9	4,956.5	12.8	23.9	-28.08	235.2	-1,223.7	800.9	781.0	19.85	40.341		
5,300.0	5,270.2	5,218.5	5,051.4	13.1	24.4	-28.09	240.3	-1,249.9	817.5	797.3	20.25	40.372		
5,400.0	5,369.5	5,317.1	5,146.3	13.3	24.9	-28.13	245.5	-1,276.2	834.3	813.6	20.65	40.408		
5,500.0	5,469.0	5,423.7	5,248.9	13.6	25.4	-28.18	251.1	-1,304.5	852.1	831.1	21.04	40.500		
5,600.0	5,568.7	5,563.6	5,384.7	13.8	26.0	-28.19	257.5	-1,337.2	868.3	846.8	21.47	40.436		
5,700.0	5,668.5	5,705.2	5,523.7	14.0	26.5	-28.20	262.7	-1,363.7	881.2	859.3	21.89	40.256		
5,800.0	5,768.3	5,848.1	5,665.2	14.2	26.9	-28.21	266.6	-1,383.6	890.8	868.5	22.29	39.965		
5,900.0	5,868.3	5,991.9	5,808.4	14.3	27.2	-28.21	269.2	-1,396.5	897.0	874.3	22.67	39.563		
6,000.0	5,968.3	6,136.4	5,952.7	14.4	27.3	-28.21	270.3	-1,402.4	899.8	876.8	23.04	39.056		
6,100.0	6,068.3	6,250.9	6,067.3	14.6	27.4	-89.98	270.4	-1,402.8	900.0	876.7	23.37	38.507		
6,200.0	6,168.3	6,350.9	6,167.3	14.7	27.5	-89.98	270.4	-1,402.8	900.0	876.3	23.69	37.986		
6,300.0	6,268.3	6,450.9	6,267.3	14.8	27.6	-89.98	270.4	-1,402.8	900.0	876.0	24.02	37.477		
6,400.0	6,368.3	6,550.9	6,367.3	15.0	27.6	-89.98	270.4	-1,402.8	900.0	875.7	24.34	36.981		
6,438.3	6,406.6	6,589.3	6,405.6	15.0	27.7	-90.01	269.9	-1,402.8	900.0	875.6	24.46	36.797		
6,500.0	6,468.3	6,650.4	6,466.4	15.1	27.7	-90.38	264.0	-1,402.8	900.1	875.4	24.69	36.456		
6,600.0	6,568.3	6,744.9	6,558.3	15.2	27.7	-91.76	242.3	-1,402.8	900.5	875.4	25.15	35.806		
6,700.0	6,668.1	6,831.7	6,638.5	15.3	27.7	86.19	209.3	-1,402.8	902.3	876.6	25.65	35.182		
6,800.0	6,766.0	6,914.4	6,709.4	15.3	27.6	84.17	166.9	-1,402.8	905.2	879.3	25.92	34.921		
6,900.0	6,858.9	6,994.2	6,771.4	15.3	27.6	82.30	116.8	-1,402.8	908.9	883.0	25.94	35.039		
7,000.0	6,944.0	7,071.7	6,824.4	15.2	27.6	80.62	60.4	-1,402.8	913.0	887.3	25.75	35.462		
7,100.0	7,018.8	7,150.0	6,869.7	15.2	27.7	79.14	-3.4	-1,402.8	917.0	891.6	25.48	35.994		
7,200.0	7,080.9	7,221.7	6,903.2	15.3	27.7	77.99	-66.7	-1,402.8	920.7	895.4	25.34	36.336		
7,300.0	7,128.6	7,300.0	6,930.5	15.5	27.9	77.06	-140.1	-1,402.8	923.7	898.1	25.54	36.163		
7,400.0	7,160.2	7,367.6	6,945.8	15.9	28.1	76.50	-205.9	-1,402.8	925.7	899.4	26.30	35.196		
7,500.0	7,174.9	7,439.9	6,953.5	16.5	28.3	76.22	-277.8	-1,402.8	926.7	899.0	27.71	33.439		
7,600.0	7,176.0	7,530.3	6,954.0	17.3	28.7	76.20	-368.2	-1,402.8	926.8	897.3	29.50	31.413		
7,700.0	7,176.0	7,630.3	6,954.0	18.2	29.2	76.20	-468.2	-1,402.8	926.8	895.3	31.47	29.445		
7,800.0	7,176.0	7,730.3	6,954.0	19.2	29.8	76.20	-568.2	-1,402.8	926.8	893.1	33.68	27.519		
7,900.0	7,176.0	7,830.3	6,954.0	20.3	30.5	76.20	-668.2	-1,402.8	926.8	890.7	36.07	25.695		
8,000.0	7,176.0	7,930.3	6,954.0	21.5	31.3	76.20	-768.2	-1,402.8	926.8	888.2	38.61	24.002		
8,100.0	7,176.0	8,030.3	6,954.0	22.8	32.1	76.20	-868.2	-1,402.8	926.8	885.5	41.28	22.450		
8,200.0	7,176.0	8,130.3	6,954.0	24.1	33.1	76.20	-968.2	-1,402.8	926.8	882.7	44.05	21.038		
8,300.0	7,176.0	8,230.3	6,954.0	25.5	34.0	76.20	-1,068.2	-1,402.8	926.8	879.9	46.91	19.758		
8,400.0	7,176.0	8,330.3	6,954.0	26.9	35.1	76.20	-1,168.2	-1,402.8	926.8	876.9	49.83	18.598		
8,500.0	7,176.0	8,430.3	6,954.0	28.4	36.2	76.20	-1,268.2	-1,402.8	926.8	874.0	52.82	17.548		
8,600.0	7,176.0	8,530.3	6,954.0	29.9	37.4	76.20	-1,368.2	-1,402.8	926.8	870.9	55.85	16.595		
8,700.0	7,176.0	8,630.3	6,954.0	31.4	38.6	76.20	-1,468.2	-1,402.8	926.8	867.9	58.92	15.730		
8,800.0	7,176.0	8,730.3	6,954.0	32.9	39.8	76.20	-1,568.2	-1,402.8	926.8	864.8	62.03	14.942		
8,900.0	7,176.0	8,830.3	6,954.0	34.5	41.1	76.20	-1,668.2	-1,402.8	926.8	861.6	65.17	14.222		
9,000.0	7,176.0	8,930.3	6,954.0	36.1	42.5	76.20	-1,768.2	-1,402.8	926.8	858.5	68.33	13.564		
9,100.0	7,176.0	9,030.3	6,954.0	37.7	43.8	76.20	-1,868.2	-1,402.8	926.8	855.3	71.52	12.959		
9,200.0	7,176.0	9,130.3	6,954.0	39.3	45.2	76.20	-1,968.2	-1,402.8	926.8	852.1	74.72	12.403		
9,300.0	7,176.0	9,230.3	6,954.0	40.9	46.6	76.20	-2,068.2	-1,402.8	926.8	848.8	77.94	11.890		
9,400.0	7,176.0	9,330.3	6,954.0	42.5	48.0	76.20	-2,168.2	-1,402.8	926.8	845.6	81.18	11.416		
9,500.0	7,176.0	9,430.3	6,954.0	44.2	49.5	76.20	-2,268.2	-1,402.8	926.8	842.4	84.43	10.977		
9,600.0	7,176.0	9,530.3	6,954.0	45.8	51.0	76.20	-2,368.2	-1,402.8	926.8	839.1	87.70	10.568		
9,700.0	7,176.0	9,630.3	6,954.0	47.5	52.5	76.20	-2,468.2	-1,402.8	926.8	835.8	90.97	10.188		
9,800.0	7,176.0	9,730.3	6,954.0	49.1	54.0	76.20	-2,568.2	-1,402.8	926.8	832.5	94.26	9.833		
9,900.0	7,176.0	9,830.3	6,954.0	50.8	55.5	76.20	-2,668.2	-1,402.8	926.8	829.2	97.55	9.501		
10,000.0	7,176.0	9,930.3	6,954.0	52.5	57.0	76.20	-2,768.2	-1,402.8	926.8	825.9	100.85	9.190		
10,100.0	7,176.0	10,030.3	6,954.0	54.2	58.6	76.20	-2,868.2	-1,402.9	926.8	822.6	104.15	8.898		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			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	7,176.0	10,130.3	6,954.0	55.9	60.1	76.20	-2,968.2	-1,402.9	926.8	819.3	107.47	8.624	
10,300.0	7,176.0	10,230.3	6,954.0	57.5	61.7	76.20	-3,068.2	-1,402.9	926.8	816.0	110.79	8.366	
10,400.0	7,176.0	10,330.3	6,954.0	59.2	63.3	76.20	-3,168.2	-1,402.9	926.8	812.7	114.11	8.122	
10,500.0	7,176.0	10,430.3	6,954.0	60.9	64.9	76.20	-3,268.2	-1,402.9	926.8	809.4	117.44	7.892	
10,600.0	7,176.0	10,530.3	6,954.0	62.6	66.5	76.20	-3,368.2	-1,402.9	926.8	806.0	120.77	7.674	
10,700.0	7,176.0	10,630.3	6,954.0	64.3	68.1	76.20	-3,468.2	-1,402.9	926.8	802.7	124.11	7.468	
10,800.0	7,176.0	10,730.3	6,954.0	66.0	69.7	76.20	-3,568.2	-1,402.9	926.8	799.4	127.45	7.272	
10,900.0	7,176.0	10,830.3	6,954.0	67.8	71.3	76.20	-3,668.2	-1,402.9	926.8	796.0	130.80	7.086	
11,000.0	7,176.0	10,930.3	6,954.0	69.5	72.9	76.20	-3,768.2	-1,402.9	926.8	792.7	134.14	6.909	
11,100.0	7,176.0	11,030.3	6,954.0	71.2	74.6	76.20	-3,868.2	-1,402.9	926.8	789.3	137.49	6.741	
11,200.0	7,176.0	11,130.3	6,954.0	72.9	76.2	76.20	-3,968.2	-1,402.9	926.8	786.0	140.85	6.580	
11,300.0	7,176.0	11,230.3	6,954.0	74.6	77.8	76.20	-4,068.2	-1,402.9	926.8	782.6	144.20	6.427	
11,400.0	7,176.0	11,330.3	6,954.0	76.3	79.5	76.20	-4,168.2	-1,402.9	926.8	779.2	147.56	6.281	
11,500.0	7,176.0	11,430.3	6,954.0	78.0	81.1	76.20	-4,268.2	-1,402.9	926.8	775.9	150.92	6.141	
11,600.0	7,176.0	11,530.3	6,954.0	79.8	82.8	76.20	-4,368.2	-1,402.9	926.8	772.5	154.29	6.007	
11,700.0	7,176.0	11,630.3	6,954.0	81.5	84.5	76.20	-4,468.2	-1,402.9	926.8	769.2	157.65	5.879	
11,747.9	7,176.0	11,678.3	6,954.0	82.3	85.3	76.20	-4,516.1	-1,402.9	926.8	767.5	159.26	5.819	
11,783.1	7,176.0	11,708.3	6,954.0	82.9	85.8	76.20	-4,546.1	-1,402.9	926.8	766.5	160.36	5.780 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-22.4	22.4					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-22.4	22.4	22.1	0.24	92.047		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-22.4	22.4	21.8	0.59	37.824		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-22.4	22.4	21.4	0.94	23.789	CC, ES	
400.0	400.0	398.2	398.2	0.6	0.6	-88.99	0.4	-24.0	24.0	22.7	1.29	18.631		
500.0	500.0	497.2	497.0	0.8	0.8	-25.26	1.6	-29.0	28.9	27.3	1.64	17.658		
600.0	600.0	595.9	595.3	1.0	1.1	-23.98	3.5	-37.2	35.8	33.8	1.98	18.035		
700.0	699.9	694.1	692.9	1.2	1.3	-23.35	6.2	-48.7	44.5	42.2	2.33	19.069		
800.0	799.8	791.9	789.5	1.4	1.6	-23.12	9.7	-63.4	55.0	52.3	2.68	20.485		
900.0	899.5	889.1	885.0	1.6	2.0	-23.11	13.9	-81.1	67.2	64.1	3.04	22.135		
1,000.0	999.2	986.5	979.9	1.8	2.3	-23.25	18.8	-101.9	81.0	77.6	3.39	23.876		
1,100.0	1,098.6	1,085.6	1,076.5	2.0	2.7	-23.68	24.0	-123.8	94.0	90.3	3.76	25.015		
1,200.0	1,197.9	1,184.9	1,173.2	2.2	3.2	-24.30	29.1	-145.8	106.1	101.9	4.13	25.653		
1,300.0	1,297.3	1,284.1	1,269.8	2.5	3.6	-24.80	34.3	-167.8	118.1	113.5	4.51	26.159		
1,400.0	1,396.6	1,383.4	1,366.5	2.7	4.0	-25.20	39.5	-189.8	130.1	125.2	4.90	26.572		
1,500.0	1,495.9	1,482.7	1,463.2	3.0	4.4	-25.54	44.7	-211.7	142.1	136.8	5.28	26.913		
1,600.0	1,595.2	1,582.0	1,559.8	3.3	4.9	-25.83	49.8	-233.7	154.1	148.4	5.67	27.199		
1,700.0	1,694.6	1,681.2	1,656.5	3.5	5.3	-26.07	55.0	-255.7	166.1	160.1	6.05	27.441		
1,800.0	1,793.9	1,780.5	1,753.2	3.8	5.7	-26.28	60.2	-277.7	178.2	171.7	6.44	27.649		
1,900.0	1,893.2	1,879.8	1,849.9	4.0	6.2	-26.47	65.4	-299.6	190.2	183.4	6.83	27.828		
2,000.0	1,992.5	1,979.0	1,946.5	4.3	6.6	-26.63	70.6	-321.6	202.2	195.0	7.23	27.984		
2,100.0	2,091.8	2,078.3	2,043.2	4.6	7.0	-26.77	75.7	-343.6	214.3	206.6	7.62	28.120		
2,200.0	2,191.2	2,177.6	2,139.9	4.8	7.5	-26.90	80.9	-365.5	226.3	218.3	8.01	28.241		
2,300.0	2,290.5	2,276.9	2,236.5	5.1	7.9	-27.02	86.1	-387.5	238.3	229.9	8.41	28.348		
2,400.0	2,389.8	2,376.1	2,333.2	5.3	8.4	-27.12	91.3	-409.5	250.4	241.6	8.80	28.444		
2,500.0	2,489.1	2,475.4	2,429.9	5.6	8.8	-27.22	96.5	-431.5	262.4	253.2	9.20	28.530		
2,600.0	2,588.5	2,574.7	2,526.6	5.9	9.2	-27.30	101.6	-453.4	274.4	264.8	9.59	28.608		
2,700.0	2,687.8	2,673.9	2,623.2	6.1	9.7	-27.38	106.8	-475.4	286.5	276.5	9.99	28.679		
2,800.0	2,787.1	2,773.2	2,719.9	6.4	10.1	-27.46	112.0	-497.4	298.5	288.1	10.39	28.743		
2,900.0	2,886.4	2,872.5	2,816.6	6.7	10.5	-27.52	117.2	-519.3	310.5	299.8	10.78	28.801		
3,000.0	2,985.8	2,971.8	2,913.2	6.9	11.0	-27.59	122.4	-541.3	322.6	311.4	11.18	28.855		
3,100.0	3,085.1	3,071.0	3,009.9	7.2	11.4	-27.64	127.5	-563.3	334.6	323.0	11.58	28.905		
3,200.0	3,184.4	3,170.3	3,106.6	7.5	11.9	-27.70	132.7	-585.3	346.7	334.7	11.97	28.950		
3,300.0	3,283.7	3,269.6	3,203.3	7.7	12.3	-27.75	137.9	-607.2	358.7	346.3	12.37	28.992		
3,400.0	3,383.1	3,368.9	3,299.9	8.0	12.7	-27.80	143.1	-629.2	370.7	358.0	12.77	29.031		
3,500.0	3,482.4	3,468.1	3,396.6	8.3	13.2	-27.84	148.2	-651.2	382.8	369.6	13.17	29.068		
3,600.0	3,581.7	3,567.4	3,493.3	8.5	13.6	-27.88	153.4	-673.1	394.8	381.3	13.57	29.102		
3,700.0	3,681.0	3,666.7	3,589.9	8.8	14.0	-27.92	158.6	-695.1	406.9	392.9	13.97	29.133		
3,800.0	3,780.4	3,765.9	3,686.6	9.1	14.5	-27.96	163.8	-717.1	418.9	404.5	14.36	29.163		
3,900.0	3,879.7	3,865.2	3,783.3	9.3	14.9	-27.99	169.0	-739.1	430.9	416.2	14.76	29.191		
4,000.0	3,979.0	3,964.5	3,880.0	9.6	15.4	-28.02	174.1	-761.0	443.0	427.8	15.16	29.217		
4,100.0	4,078.3	4,063.8	3,976.6	9.9	15.8	-28.06	179.3	-783.0	455.0	439.5	15.56	29.241		
4,200.0	4,177.6	4,163.0	4,073.3	10.1	16.2	-28.08	184.5	-805.0	467.1	451.1	15.96	29.265		
4,300.0	4,277.0	4,262.3	4,170.0	10.4	16.7	-28.11	189.7	-827.0	479.1	462.7	16.36	29.287		
4,400.0	4,376.3	4,361.6	4,266.6	10.7	17.1	-28.14	194.9	-848.9	491.2	474.4	16.76	29.307		
4,500.0	4,475.6	4,460.8	4,363.3	10.9	17.6	-28.16	200.0	-870.9	503.2	486.0	17.16	29.327		
4,600.0	4,574.9	4,560.1	4,460.0	11.2	18.0	-28.19	205.2	-892.9	515.2	497.7	17.56	29.345		
4,700.0	4,674.3	4,659.4	4,556.7	11.5	18.4	-28.21	210.4	-914.8	527.3	509.3	17.96	29.363		
4,800.0	4,773.6	4,758.7	4,653.3	11.7	18.9	-28.23	215.6	-936.8	539.3	521.0	18.36	29.380		
4,900.0	4,872.9	4,857.9	4,750.0	12.0	19.3	-28.25	220.8	-958.8	551.4	532.6	18.76	29.396		
5,000.0	4,972.2	4,957.2	4,846.7	12.3	19.7	-28.27	225.9	-980.8	563.4	544.2	19.16	29.411		
5,100.0	5,071.6	5,056.5	4,943.3	12.5	20.2	-28.29	231.1	-1,002.7	575.4	555.9	19.56	29.426		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,170.9	5,155.7	5,040.0	12.8	20.6	-28.31	236.3	-1,024.7	587.5	567.5	19.96	29.439		
5,300.0	5,270.2	5,255.0	5,136.7	13.1	21.1	-28.33	241.5	-1,046.7	599.5	579.2	20.36	29.453		
5,400.0	5,369.5	5,354.3	5,233.3	13.3	21.5	-28.36	246.6	-1,068.6	611.7	590.9	20.75	29.472		
5,500.0	5,469.0	5,453.4	5,329.8	13.6	21.9	-28.38	251.8	-1,090.6	625.0	603.9	21.13	29.576		
5,600.0	5,568.7	5,574.3	5,448.0	13.8	22.4	-28.33	257.7	-1,115.6	638.5	617.0	21.52	29.663		
5,700.0	5,668.5	5,701.6	5,573.4	14.0	22.8	-28.29	262.7	-1,136.8	649.3	627.4	21.91	29.634		
5,800.0	5,768.3	5,829.7	5,700.4	14.2	23.1	-28.26	266.4	-1,152.6	657.3	635.1	22.28	29.501		
5,900.0	5,868.3	5,958.4	5,828.7	14.3	23.4	-28.24	268.9	-1,162.9	662.5	639.9	22.64	29.266		
6,000.0	5,968.3	6,087.5	5,957.7	14.4	23.5	-28.23	270.0	-1,167.6	664.9	641.9	22.98	28.932		
6,100.0	6,068.3	6,197.1	6,067.3	14.6	23.6	-90.00	270.0	-1,167.9	665.1	641.8	23.31	28.534		
6,200.0	6,168.3	6,297.1	6,167.3	14.7	23.7	-90.00	270.0	-1,167.9	665.1	641.4	23.63	28.147		
6,300.0	6,268.3	6,397.1	6,267.3	14.8	23.8	-90.00	270.0	-1,167.9	665.1	641.1	23.95	27.770		
6,400.0	6,368.3	6,497.1	6,367.3	15.0	23.8	-90.00	270.0	-1,167.9	665.1	640.8	24.27	27.401		
6,500.0	6,468.3	6,597.1	6,467.3	15.1	23.9	-90.00	270.0	-1,167.9	665.1	640.5	24.59	27.042		
6,600.0	6,568.3	6,697.1	6,567.3	15.2	24.0	-90.00	270.0	-1,167.9	665.1	640.2	24.92	26.691		
6,700.0	6,668.1	6,797.1	6,667.1	15.3	24.1	90.00	266.3	-1,167.9	665.1	639.9	25.16	26.431		
6,800.0	6,766.0	6,897.1	6,765.0	15.3	24.1	90.00	246.4	-1,167.9	665.1	639.9	25.20	26.397		
6,900.0	6,858.9	6,997.1	6,857.9	15.3	24.1	90.00	209.7	-1,167.9	665.1	640.0	25.10	26.501		
7,000.0	6,944.0	7,097.1	6,943.1	15.2	24.0	90.00	157.5	-1,167.9	665.1	640.1	24.97	26.635		
7,100.0	7,018.8	7,197.1	7,017.8	15.2	24.0	90.00	91.3	-1,167.9	665.1	640.1	24.95	26.658		
7,200.0	7,080.9	7,297.1	7,080.0	15.3	24.1	90.00	13.1	-1,167.9	665.1	639.9	25.17	26.427		
7,300.0	7,128.6	7,397.1	7,127.6	15.5	24.2	90.00	-74.7	-1,167.9	665.1	639.3	25.74	25.840		
7,400.0	7,160.2	7,497.1	7,159.2	15.9	24.4	90.00	-169.4	-1,167.9	665.1	638.3	26.73	24.884		
7,500.0	7,174.9	7,597.1	7,173.9	16.5	24.8	90.00	-268.2	-1,167.9	665.1	636.9	28.13	23.643		
7,600.0	7,176.0	7,697.1	7,175.0	17.3	25.3	90.00	-368.2	-1,167.9	665.1	635.2	29.89	22.254		
7,700.0	7,176.0	7,797.1	7,175.0	18.2	25.9	90.00	-468.2	-1,167.9	665.1	633.1	31.93	20.828		
7,800.0	7,176.0	7,897.1	7,175.0	19.2	26.6	90.00	-568.2	-1,167.9	665.1	630.9	34.22	19.438		
7,900.0	7,176.0	7,997.1	7,175.0	20.3	27.4	90.00	-668.2	-1,167.9	665.1	628.4	36.69	18.125		
8,000.0	7,176.0	8,097.1	7,175.0	21.5	28.3	90.00	-768.2	-1,167.9	665.1	625.7	39.33	16.911		
8,100.0	7,176.0	8,197.1	7,175.0	22.8	29.2	90.00	-868.2	-1,167.9	665.1	623.0	42.09	15.801		
8,200.0	7,176.0	8,297.1	7,175.0	24.1	30.2	90.00	-968.2	-1,167.9	665.1	620.1	44.96	14.793		
8,300.0	7,176.0	8,397.1	7,175.0	25.5	31.3	90.00	-1,068.2	-1,167.9	665.1	617.2	47.91	13.882		
8,400.0	7,176.0	8,497.1	7,175.0	26.9	32.5	90.00	-1,168.2	-1,167.9	665.1	614.1	50.93	13.058		
8,500.0	7,176.0	8,597.1	7,175.0	28.4	33.7	90.00	-1,268.2	-1,167.9	665.1	611.1	54.01	12.313		
8,600.0	7,176.0	8,697.1	7,175.0	29.9	35.0	90.00	-1,368.2	-1,167.9	665.1	607.9	57.14	11.638		
8,700.0	7,176.0	8,797.1	7,175.0	31.4	36.3	90.00	-1,468.2	-1,167.9	665.1	604.8	60.32	11.026		
8,800.0	7,176.0	8,897.1	7,175.0	32.9	37.6	90.00	-1,568.2	-1,167.9	665.1	601.5	63.52	10.470		
8,900.0	7,176.0	8,997.1	7,175.0	34.5	39.0	90.00	-1,668.2	-1,167.9	665.1	598.3	66.76	9.962		
9,000.0	7,176.0	9,097.1	7,175.0	36.1	40.4	90.00	-1,768.2	-1,167.9	665.1	595.0	70.03	9.498		
9,100.0	7,176.0	9,197.1	7,175.0	37.7	41.8	90.00	-1,868.2	-1,167.9	665.1	591.8	73.31	9.072		
9,200.0	7,176.0	9,297.1	7,175.0	39.3	43.3	90.00	-1,968.2	-1,167.9	665.1	588.5	76.62	8.680		
9,300.0	7,176.0	9,397.1	7,175.0	40.9	44.8	90.00	-2,068.2	-1,167.9	665.1	585.1	79.94	8.319		
9,400.0	7,176.0	9,497.1	7,175.0	42.5	46.2	90.00	-2,168.2	-1,167.9	665.1	581.8	83.28	7.986		
9,500.0	7,176.0	9,597.1	7,175.0	44.2	47.8	90.00	-2,268.2	-1,167.9	665.1	578.4	86.63	7.677		
9,600.0	7,176.0	9,697.1	7,175.0	45.8	49.3	90.00	-2,368.2	-1,167.9	665.1	575.1	89.99	7.390		
9,700.0	7,176.0	9,797.1	7,175.0	47.5	50.8	90.00	-2,468.2	-1,167.9	665.1	571.7	93.37	7.123		
9,800.0	7,176.0	9,897.1	7,175.0	49.1	52.4	90.00	-2,568.2	-1,167.9	665.1	568.3	96.75	6.874		
9,900.0	7,176.0	9,997.1	7,175.0	50.8	54.0	90.00	-2,668.2	-1,167.9	665.1	564.9	100.15	6.641		
10,000.0	7,176.0	10,097.1	7,175.0	52.5	55.5	90.00	-2,768.2	-1,167.9	665.1	561.5	103.55	6.423		
10,100.0	7,176.0	10,197.1	7,175.0	54.2	57.1	90.00	-2,868.2	-1,167.9	665.1	558.1	106.95	6.218		
10,200.0	7,176.0	10,297.1	7,175.0	55.9	58.7	90.00	-2,968.2	-1,167.9	665.1	554.7	110.37	6.026		
10,300.0	7,176.0	10,397.1	7,175.0	57.5	60.3	90.00	-3,068.2	-1,167.9	665.1	551.3	113.79	5.845		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,176.0	10,497.1	7,175.0	59.2	62.0	90.00	-3,168.2	-1,167.8	665.1	547.9	117.21	5.674		
10,500.0	7,176.0	10,597.1	7,175.0	60.9	63.6	90.00	-3,268.2	-1,167.8	665.1	544.4	120.64	5.513		
10,600.0	7,176.0	10,697.1	7,175.0	62.6	65.2	90.00	-3,368.2	-1,167.8	665.1	541.0	124.07	5.360		
10,700.0	7,176.0	10,797.1	7,175.0	64.3	66.9	90.00	-3,468.2	-1,167.8	665.1	537.6	127.51	5.216		
10,800.0	7,176.0	10,897.1	7,175.0	66.0	68.5	90.00	-3,568.2	-1,167.8	665.1	534.1	130.95	5.079		
10,900.0	7,176.0	10,997.1	7,175.0	67.8	70.1	90.00	-3,668.2	-1,167.8	665.1	530.7	134.40	4.948		
11,000.0	7,176.0	11,097.1	7,175.0	69.5	71.8	90.00	-3,768.2	-1,167.8	665.1	527.2	137.84	4.825		
11,100.0	7,176.0	11,197.1	7,175.0	71.2	73.5	90.00	-3,868.2	-1,167.8	665.1	523.8	141.30	4.707		
11,200.0	7,176.0	11,297.1	7,175.0	72.9	75.1	90.00	-3,968.2	-1,167.8	665.1	520.3	144.75	4.595		
11,300.0	7,176.0	11,397.1	7,175.0	74.6	76.8	90.00	-4,068.2	-1,167.8	665.1	516.9	148.21	4.487		
11,400.0	7,176.0	11,497.1	7,175.0	76.3	78.5	90.00	-4,168.2	-1,167.8	665.1	513.4	151.66	4.385		
11,500.0	7,176.0	11,597.1	7,175.0	78.0	80.1	90.00	-4,268.2	-1,167.8	665.1	509.9	155.13	4.287		
11,600.0	7,176.0	11,697.1	7,175.0	79.8	81.8	90.00	-4,368.2	-1,167.8	665.1	506.5	158.59	4.194		
11,700.0	7,176.0	11,797.1	7,175.0	81.5	83.5	90.00	-4,468.2	-1,167.8	665.1	503.0	162.05	4.104		
11,759.1	7,176.0	11,856.2	7,175.0	82.5	84.5	90.00	-4,527.3	-1,167.8	665.1	501.0	164.10	4.053		
11,783.1	7,176.0	11,876.5	7,175.0	82.9	84.8	90.00	-4,547.6	-1,167.8	665.1	500.2	164.87	4.034 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			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	-89.90	0.0	-14.8	14.9					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-14.8	14.8	14.6	0.24	60.981		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-14.8	14.8	14.2	0.59	25.058		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-14.8	14.8	13.9	0.94	15.760		
334.7	334.7	333.7	333.7	0.5	0.5	-89.90	0.0	-14.8	14.8	13.8	1.06	13.962 CC, ES		
400.0	400.0	398.8	398.8	0.6	0.6	-89.47	0.1	-15.2	15.2	13.9	1.29	11.809		
500.0	500.0	498.1	498.1	0.8	0.8	-25.16	1.1	-18.5	18.4	16.7	1.64	11.213		
600.0	600.0	597.3	597.0	1.0	1.0	-23.18	3.0	-25.1	23.5	21.5	1.99	11.842		
700.0	699.9	696.1	695.3	1.2	1.3	-22.03	5.8	-34.9	30.5	28.1	2.34	13.051		
800.0	799.8	794.6	792.8	1.4	1.5	-21.42	9.5	-47.9	39.2	36.5	2.69	14.601		
900.0	899.5	892.6	889.3	1.6	1.8	-21.12	14.2	-64.1	49.7	46.7	3.04	16.360		
1,000.0	999.2	992.0	987.0	1.8	2.2	-21.27	19.4	-82.0	60.2	56.8	3.40	17.721		
1,100.0	1,098.6	1,091.6	1,084.8	2.0	2.5	-21.90	24.5	-100.0	69.1	65.3	3.76	18.360		
1,200.0	1,197.9	1,191.3	1,182.8	2.2	2.9	-22.73	29.7	-117.9	76.9	72.8	4.14	18.597		
1,300.0	1,297.3	1,291.0	1,280.7	2.5	3.2	-23.42	34.9	-135.9	84.7	80.2	4.51	18.774		
1,400.0	1,396.6	1,390.7	1,378.6	2.7	3.6	-23.99	40.1	-153.9	92.6	87.7	4.89	18.912		
1,500.0	1,495.9	1,490.4	1,476.5	3.0	4.0	-24.47	45.2	-171.9	100.4	95.1	5.28	19.022		
1,600.0	1,595.2	1,590.1	1,574.4	3.3	4.3	-24.88	50.4	-189.9	108.3	102.6	5.67	19.110		
1,700.0	1,694.6	1,689.7	1,672.3	3.5	4.7	-25.24	55.6	-207.8	116.1	110.1	6.05	19.182		
1,800.0	1,793.9	1,789.4	1,770.3	3.8	5.1	-25.55	60.8	-225.8	124.0	117.5	6.44	19.240		
1,900.0	1,893.2	1,889.1	1,868.2	4.0	5.4	-25.82	65.9	-243.8	131.8	125.0	6.84	19.288		
2,000.0	1,992.5	1,988.8	1,966.1	4.3	5.8	-26.06	71.1	-261.8	139.7	132.5	7.23	19.327		
2,100.0	2,091.8	2,088.5	2,064.0	4.6	6.2	-26.28	76.3	-279.8	147.6	139.9	7.62	19.360		
2,200.0	2,191.2	2,188.2	2,161.9	4.8	6.6	-26.48	81.5	-297.7	155.4	147.4	8.02	19.388		
2,300.0	2,290.5	2,287.9	2,259.8	5.1	6.9	-26.65	86.6	-315.7	163.3	154.9	8.41	19.411		
2,400.0	2,389.8	2,387.6	2,357.8	5.3	7.3	-26.81	91.8	-333.7	171.2	162.4	8.81	19.431		
2,500.0	2,489.1	2,487.2	2,455.7	5.6	7.7	-26.96	97.0	-351.7	179.1	169.8	9.21	19.448		
2,600.0	2,588.5	2,586.9	2,553.6	5.9	8.0	-27.09	102.2	-369.7	186.9	177.3	9.60	19.462		
2,700.0	2,687.8	2,686.6	2,651.5	6.1	8.4	-27.22	107.4	-387.6	194.8	184.8	10.00	19.475		
2,800.0	2,787.1	2,786.3	2,749.4	6.4	8.8	-27.33	112.5	-405.6	202.7	192.3	10.40	19.485		
2,900.0	2,886.4	2,886.0	2,847.3	6.7	9.2	-27.43	117.7	-423.6	210.6	199.8	10.80	19.494		
3,000.0	2,985.8	2,985.7	2,945.3	6.9	9.5	-27.53	122.9	-441.6	218.4	207.2	11.20	19.502		
3,100.0	3,085.1	3,085.4	3,043.2	7.2	9.9	-27.62	128.1	-459.6	226.3	214.7	11.60	19.509		
3,200.0	3,184.4	3,185.1	3,141.1	7.5	10.3	-27.71	133.2	-477.5	234.2	222.2	12.00	19.515		
3,300.0	3,283.7	3,284.8	3,239.0	7.7	10.7	-27.79	138.4	-495.5	242.1	229.7	12.40	19.520		
3,400.0	3,383.1	3,384.4	3,336.9	8.0	11.0	-27.86	143.6	-513.5	249.9	237.1	12.80	19.525		
3,500.0	3,482.4	3,484.1	3,434.8	8.3	11.4	-27.93	148.8	-531.5	257.8	244.6	13.20	19.529		
3,600.0	3,581.7	3,583.8	3,532.8	8.5	11.8	-28.00	153.9	-549.5	265.7	252.1	13.60	19.532		
3,700.0	3,681.0	3,683.5	3,630.7	8.8	12.2	-28.06	159.1	-567.5	273.6	259.6	14.00	19.535		
3,800.0	3,780.4	3,783.2	3,728.6	9.1	12.5	-28.12	164.3	-585.4	281.5	267.1	14.41	19.537		
3,900.0	3,879.7	3,882.9	3,826.5	9.3	12.9	-28.17	169.5	-603.4	289.3	274.5	14.81	19.539		
4,000.0	3,979.0	3,982.6	3,924.4	9.6	13.3	-28.22	174.6	-621.4	297.2	282.0	15.21	19.541		
4,100.0	4,078.3	4,082.3	4,022.3	9.9	13.6	-28.27	179.8	-639.4	305.1	289.5	15.61	19.543		
4,200.0	4,177.6	4,182.0	4,120.3	10.1	14.0	-28.32	185.0	-657.4	313.0	297.0	16.01	19.544		
4,300.0	4,277.0	4,281.6	4,218.2	10.4	14.4	-28.36	190.2	-675.3	320.9	304.5	16.42	19.546		
4,400.0	4,376.3	4,381.3	4,316.1	10.7	14.8	-28.41	195.3	-693.3	328.8	311.9	16.82	19.547		
4,500.0	4,475.6	4,481.0	4,414.0	10.9	15.1	-28.45	200.5	-711.3	336.6	319.4	17.22	19.547		
4,600.0	4,574.9	4,580.7	4,511.9	11.2	15.5	-28.48	205.7	-729.3	344.5	326.9	17.62	19.548		
4,700.0	4,674.3	4,680.4	4,609.8	11.5	15.9	-28.52	210.9	-747.3	352.4	334.4	18.03	19.549		
4,800.0	4,773.6	4,780.1	4,707.8	11.7	16.3	-28.56	216.1	-765.2	360.3	341.9	18.43	19.549		
4,900.0	4,872.9	4,879.8	4,805.7	12.0	16.6	-28.59	221.2	-783.2	368.2	349.3	18.83	19.550		
5,000.0	4,972.2	4,979.5	4,903.6	12.3	17.0	-28.62	226.4	-801.2	376.0	356.8	19.24	19.550		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			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	5,071.6	5,079.2	5,001.5	12.5	17.4	-28.65	231.6	-819.2	383.9	364.3	19.64	19.550		
5,200.0	5,170.9	5,178.8	5,099.4	12.8	17.8	-28.68	236.8	-837.2	391.8	371.8	20.04	19.550		
5,300.0	5,270.2	5,278.5	5,197.3	13.1	18.1	-28.71	241.9	-855.1	399.7	379.2	20.44	19.550		
5,400.0	5,369.5	5,378.2	5,295.3	13.3	18.5	-28.75	247.1	-873.1	407.7	386.8	20.85	19.557		
5,500.0	5,469.0	5,477.8	5,393.1	13.6	18.9	-28.72	252.3	-891.1	416.8	395.6	21.22	19.643		
5,600.0	5,568.7	5,582.0	5,495.5	13.8	19.3	-28.59	257.6	-909.7	427.4	405.8	21.58	19.809		
5,700.0	5,668.5	5,698.5	5,610.5	14.0	19.6	-28.44	262.7	-927.2	436.6	414.6	21.93	19.906		
5,800.0	5,768.3	5,815.5	5,726.7	14.2	19.9	-28.33	266.4	-940.2	443.4	421.1	22.28	19.904		
5,900.0	5,868.3	5,932.9	5,843.8	14.3	20.1	-28.26	268.8	-948.6	447.8	425.2	22.61	19.805		
6,000.0	5,968.3	6,050.6	5,961.4	14.4	20.2	-28.23	270.0	-952.5	449.8	426.9	22.93	19.613		
6,100.0	6,068.3	6,156.5	6,067.3	14.6	20.3	-90.00	270.0	-952.7	449.9	426.7	23.25	19.348		
6,200.0	6,168.3	6,256.5	6,167.3	14.7	20.4	-90.00	270.0	-952.7	449.9	426.4	23.57	19.086		
6,300.0	6,268.3	6,356.5	6,267.3	14.8	20.5	-90.00	270.0	-952.7	449.9	426.0	23.89	18.829		
6,400.0	6,368.3	6,456.5	6,367.3	15.0	20.6	-90.00	270.0	-952.7	449.9	425.7	24.22	18.579		
6,500.0	6,468.3	6,556.5	6,467.3	15.1	20.7	-90.00	270.0	-952.7	449.9	425.4	24.54	18.335		
6,530.6	6,498.9	6,587.1	6,497.9	15.1	20.7	-90.07	269.4	-952.7	449.9	425.3	24.64	18.261		
6,600.0	6,568.3	6,655.6	6,566.0	15.2	20.8	-90.98	262.3	-952.7	450.0	425.0	24.95	18.034		
6,700.0	6,668.1	6,750.0	6,657.4	15.3	20.8	86.44	239.2	-952.7	450.8	425.3	25.50	17.683		
6,800.0	6,766.0	6,842.0	6,741.7	15.3	20.7	83.84	202.6	-952.7	452.6	426.8	25.80	17.546		
6,900.0	6,858.9	6,930.9	6,816.6	15.3	20.7	81.47	154.8	-952.7	455.1	429.3	25.82	17.631		
7,000.0	6,944.0	7,017.7	6,881.8	15.2	20.7	79.35	97.6	-952.7	458.0	432.4	25.60	17.889		
7,100.0	7,018.8	7,100.0	6,934.8	15.2	20.7	77.59	34.8	-952.7	461.0	435.7	25.30	18.219		
7,200.0	7,080.9	7,186.6	6,980.4	15.3	20.8	76.07	-38.7	-952.7	463.7	438.6	25.13	18.454		
7,300.0	7,128.6	7,269.3	7,013.1	15.5	21.0	74.97	-114.5	-952.7	466.0	440.6	25.30	18.414		
7,400.0	7,160.2	7,350.0	7,034.2	15.9	21.3	74.25	-192.4	-952.7	467.5	441.5	26.04	17.951		
7,500.0	7,174.9	7,432.9	7,044.3	16.5	21.6	73.91	-274.6	-952.7	468.3	440.8	27.47	17.045		
7,600.0	7,176.0	7,526.5	7,045.0	17.3	22.2	73.88	-368.2	-952.7	468.3	439.1	29.25	16.010		
7,700.0	7,176.0	7,626.5	7,045.0	18.2	22.9	73.88	-468.2	-952.7	468.3	437.1	31.20	15.008		
7,800.0	7,176.0	7,726.5	7,045.0	19.2	23.7	73.88	-568.2	-952.7	468.3	434.9	33.38	14.028		
7,900.0	7,176.0	7,826.5	7,045.0	20.3	24.5	73.88	-668.2	-952.7	468.3	432.6	35.75	13.100		
8,000.0	7,176.0	7,926.5	7,045.0	21.5	25.5	73.88	-768.2	-952.7	468.3	430.1	38.27	12.238		
8,100.0	7,176.0	8,026.5	7,045.0	22.8	26.6	73.88	-868.2	-952.7	468.3	427.4	40.91	11.449		
8,200.0	7,176.0	8,126.5	7,045.0	24.1	27.7	73.88	-968.2	-952.7	468.3	424.7	43.65	10.730		
8,300.0	7,176.0	8,226.5	7,045.0	25.5	28.9	73.88	-1,068.2	-952.7	468.3	421.9	46.47	10.077		
8,400.0	7,176.0	8,326.5	7,045.0	26.9	30.2	73.88	-1,168.2	-952.7	468.3	419.0	49.37	9.487		
8,500.0	7,176.0	8,426.5	7,045.0	28.4	31.5	73.88	-1,268.2	-952.7	468.3	416.0	52.32	8.952		
8,600.0	7,176.0	8,526.5	7,045.0	29.9	32.9	73.88	-1,368.2	-952.7	468.3	413.0	55.32	8.466		
8,700.0	7,176.0	8,626.5	7,045.0	31.4	34.2	73.88	-1,468.2	-952.7	468.3	410.0	58.35	8.025		
8,800.0	7,176.0	8,726.5	7,045.0	32.9	35.7	73.88	-1,568.2	-952.7	468.3	406.9	61.43	7.624		
8,900.0	7,176.0	8,826.5	7,045.0	34.5	37.1	73.88	-1,668.2	-952.7	468.3	403.8	64.53	7.257		
9,000.0	7,176.0	8,926.5	7,045.0	36.1	38.6	73.88	-1,768.2	-952.7	468.3	400.7	67.66	6.921		
9,100.0	7,176.0	9,026.5	7,045.0	37.7	40.1	73.88	-1,868.2	-952.7	468.3	397.5	70.81	6.613		
9,200.0	7,176.0	9,126.5	7,045.0	39.3	41.6	73.88	-1,968.2	-952.7	468.3	394.3	73.99	6.330		
9,300.0	7,176.0	9,226.5	7,045.0	40.9	43.1	73.88	-2,068.2	-952.7	468.3	391.1	77.17	6.068		
9,400.0	7,176.0	9,326.5	7,045.0	42.5	44.7	73.88	-2,168.2	-952.7	468.3	387.9	80.38	5.826		
9,500.0	7,176.0	9,426.5	7,045.0	44.2	46.2	73.88	-2,268.2	-952.7	468.3	384.7	83.59	5.602		
9,600.0	7,176.0	9,526.5	7,045.0	45.8	47.8	73.88	-2,368.2	-952.7	468.3	381.5	86.82	5.394		
9,700.0	7,176.0	9,626.5	7,045.0	47.5	49.4	73.88	-2,468.2	-952.7	468.3	378.3	90.06	5.200		
9,800.0	7,176.0	9,726.5	7,045.0	49.1	51.0	73.88	-2,568.2	-952.7	468.3	375.0	93.31	5.019		
9,900.0	7,176.0	9,826.5	7,045.0	50.8	52.6	73.88	-2,668.2	-952.7	468.3	371.7	96.57	4.850		
10,000.0	7,176.0	9,926.5	7,045.0	52.5	54.2	73.88	-2,768.2	-952.7	468.3	368.5	99.83	4.691		
10,100.0	7,176.0	10,026.5	7,045.0	54.2	55.9	73.88	-2,868.2	-952.7	468.3	365.2	103.10	4.542		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
10,200.0	7,176.0	10,126.5	7,045.0	55.9	57.5	73.88	-2,968.2	-952.7	468.3	361.9	106.38	4.402		
10,300.0	7,176.0	10,226.5	7,045.0	57.5	59.1	73.88	-3,068.2	-952.7	468.3	358.6	109.66	4.270		
10,400.0	7,176.0	10,326.5	7,045.0	59.2	60.8	73.88	-3,168.2	-952.7	468.3	355.4	112.95	4.146		
10,500.0	7,176.0	10,426.5	7,045.0	60.9	62.4	73.88	-3,268.2	-952.7	468.3	352.1	116.25	4.029		
10,600.0	7,176.0	10,526.5	7,045.0	62.6	64.1	73.88	-3,368.2	-952.7	468.3	348.8	119.54	3.917		
10,700.0	7,176.0	10,626.5	7,045.0	64.3	65.8	73.88	-3,468.2	-952.7	468.3	345.5	122.85	3.812		
10,800.0	7,176.0	10,726.5	7,045.0	66.0	67.4	73.88	-3,568.2	-952.7	468.3	342.2	126.15	3.712		
10,900.0	7,176.0	10,826.5	7,045.0	67.8	69.1	73.88	-3,668.2	-952.7	468.3	338.8	129.46	3.617		
11,000.0	7,176.0	10,926.5	7,045.0	69.5	70.8	73.88	-3,768.2	-952.7	468.3	335.5	132.77	3.527		
11,100.0	7,176.0	11,026.5	7,045.0	71.2	72.5	73.88	-3,868.2	-952.7	468.3	332.2	136.09	3.441		
11,200.0	7,176.0	11,126.5	7,045.0	72.9	74.2	73.88	-3,968.2	-952.7	468.3	328.9	139.41	3.359		
11,300.0	7,176.0	11,226.5	7,045.0	74.6	75.8	73.88	-4,068.2	-952.7	468.3	325.6	142.73	3.281		
11,400.0	7,176.0	11,326.5	7,045.0	76.3	77.5	73.88	-4,168.2	-952.7	468.3	322.3	146.05	3.207		
11,500.0	7,176.0	11,426.5	7,045.0	78.0	79.2	73.88	-4,268.2	-952.7	468.3	318.9	149.37	3.135		
11,600.0	7,176.0	11,526.5	7,045.0	79.8	80.9	73.88	-4,368.2	-952.7	468.3	315.6	152.70	3.067		
11,700.0	7,176.0	11,626.5	7,045.0	81.5	82.6	73.88	-4,468.2	-952.7	468.3	312.3	156.03	3.001		
11,759.5	7,176.0	11,686.0	7,045.0	82.5	83.6	73.88	-4,527.7	-952.7	468.3	310.3	158.01	2.964		
11,783.1	7,176.0	11,707.0	7,045.0	82.9	84.0	73.88	-4,548.7	-952.7	468.3	309.6	158.75	2.950 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	
0.0	0.0	0.0	0.0	0.0	0.0	-89.90	0.0	-7.3	7.3					
100.0	100.0	99.0	99.0	0.1	0.1	-89.90	0.0	-7.3	7.3	7.0	0.24	29.915		
200.0	200.0	199.0	199.0	0.3	0.3	-89.90	0.0	-7.3	7.3	6.7	0.59	12.293		
300.0	300.0	299.0	299.0	0.5	0.5	-89.90	0.0	-7.3	7.3	6.3	0.94	7.731		
400.0	400.0	399.0	399.0	0.6	0.6	-89.90	0.0	-7.3	7.3	6.0	1.29	5.639 CC, ES		
500.0	500.0	498.9	498.9	0.8	0.8	-26.72	0.3	-8.1	7.9	6.2	1.64	4.811		
600.0	600.0	598.7	598.7	1.0	1.0	-26.31	1.2	-10.5	8.8	6.8	1.99	4.417		
700.0	699.9	698.6	698.4	1.2	1.2	-27.25	2.7	-14.6	9.8	7.4	2.34	4.176		
800.0	799.8	798.4	798.1	1.4	1.4	-29.15	4.9	-20.2	10.8	8.2	2.69	4.028		
900.0	899.5	898.2	897.6	1.6	1.6	-31.69	7.6	-27.5	12.0	9.0	3.06	3.942		
1,000.0	999.2	998.0	996.9	1.8	1.8	-34.65	11.0	-36.5	13.4	9.9	3.43	3.898		
1,100.0	1,098.6	1,097.8	1,096.0	2.0	2.0	-37.81	14.9	-47.0	14.9	11.0	3.83	3.880		
1,200.0	1,197.9	1,197.5	1,194.9	2.2	2.3	-39.72	19.5	-59.2	17.0	12.7	4.24	4.001		
1,300.0	1,297.3	1,297.2	1,293.5	2.5	2.6	-38.57	24.6	-72.9	20.6	15.9	4.65	4.426		
1,400.0	1,396.6	1,396.9	1,391.9	2.7	2.9	-36.14	30.3	-88.0	25.4	20.4	5.03	5.051		
1,500.0	1,495.9	1,496.8	1,490.5	3.0	3.2	-34.37	36.0	-103.2	30.4	25.0	5.42	5.615		
1,600.0	1,595.2	1,596.7	1,589.0	3.3	3.5	-33.10	41.7	-118.5	35.4	29.6	5.80	6.108		
1,700.0	1,694.6	1,696.5	1,687.6	3.5	3.8	-32.15	47.4	-133.7	40.5	34.3	6.19	6.540		
1,800.0	1,793.9	1,796.4	1,786.1	3.8	4.2	-31.40	53.1	-148.9	45.5	38.9	6.57	6.922		
1,900.0	1,893.2	1,896.3	1,884.6	4.0	4.5	-30.81	58.8	-164.2	50.5	43.6	6.96	7.262		
2,000.0	1,992.5	1,996.1	1,983.2	4.3	4.8	-30.32	64.5	-179.4	55.6	48.3	7.35	7.566		
2,100.0	2,091.8	2,096.0	2,081.7	4.6	5.1	-29.92	70.2	-194.6	60.7	52.9	7.74	7.840		
2,200.0	2,191.2	2,195.9	2,180.2	4.8	5.5	-29.57	75.9	-209.9	65.7	57.6	8.13	8.088		
2,300.0	2,290.5	2,295.8	2,278.8	5.1	5.8	-29.28	81.6	-225.1	70.8	62.3	8.51	8.313		
2,400.0	2,389.8	2,395.6	2,377.3	5.3	6.1	-29.02	87.4	-240.3	75.8	66.9	8.90	8.518		
2,500.0	2,489.1	2,495.5	2,475.9	5.6	6.5	-28.80	93.1	-255.6	80.9	71.6	9.29	8.706		
2,600.0	2,588.5	2,595.4	2,574.4	5.9	6.8	-28.60	98.8	-270.8	86.0	76.3	9.68	8.879		
2,700.0	2,687.8	2,695.2	2,672.9	6.1	7.1	-28.43	104.5	-286.0	91.0	81.0	10.07	9.038		
2,800.0	2,787.1	2,795.1	2,771.5	6.4	7.4	-28.27	110.2	-301.3	96.1	85.6	10.46	9.186		
2,900.0	2,886.4	2,895.0	2,870.0	6.7	7.8	-28.13	115.9	-316.5	101.2	90.3	10.85	9.323		
3,000.0	2,985.8	2,994.9	2,968.5	6.9	8.1	-28.00	121.6	-331.7	106.2	95.0	11.24	9.450		
3,100.0	3,085.1	3,094.7	3,067.1	7.2	8.4	-27.89	127.3	-347.0	111.3	99.7	11.63	9.569		
3,200.0	3,184.4	3,194.6	3,165.6	7.5	8.8	-27.78	133.0	-362.2	116.4	104.3	12.02	9.680		
3,300.0	3,283.7	3,294.5	3,264.2	7.7	9.1	-27.69	138.7	-377.4	121.4	109.0	12.41	9.785		
3,400.0	3,383.1	3,394.3	3,362.7	8.0	9.4	-27.60	144.4	-392.7	126.5	113.7	12.80	9.882		
3,500.0	3,482.4	3,494.2	3,461.2	8.3	9.8	-27.51	150.1	-407.9	131.6	118.4	13.19	9.974		
3,600.0	3,581.7	3,594.1	3,559.8	8.5	10.1	-27.44	155.9	-423.1	136.6	123.0	13.58	10.061		
3,700.0	3,681.0	3,694.0	3,658.3	8.8	10.4	-27.37	161.6	-438.4	141.7	127.7	13.97	10.143		
3,800.0	3,780.4	3,793.8	3,756.8	9.1	10.8	-27.30	167.3	-453.6	146.8	132.4	14.36	10.220		
3,900.0	3,879.7	3,893.7	3,855.4	9.3	11.1	-27.24	173.0	-468.8	151.8	137.1	14.75	10.293		
4,000.0	3,979.0	3,993.6	3,953.9	9.6	11.4	-27.18	178.7	-484.1	156.9	141.8	15.14	10.363		
4,100.0	4,078.3	4,093.4	4,052.5	9.9	11.8	-27.13	184.4	-499.3	162.0	146.4	15.53	10.428		
4,200.0	4,177.6	4,193.3	4,151.0	10.1	12.1	-27.08	190.1	-514.5	167.0	151.1	15.92	10.491		
4,300.0	4,277.0	4,293.2	4,249.5	10.4	12.4	-27.03	195.8	-529.8	172.1	155.8	16.31	10.551		
4,400.0	4,376.3	4,393.1	4,348.1	10.7	12.8	-26.99	201.5	-545.0	177.2	160.5	16.70	10.608		
4,500.0	4,475.6	4,492.9	4,446.6	10.9	13.1	-26.94	207.2	-560.2	182.3	165.2	17.09	10.662		
4,600.0	4,574.9	4,592.8	4,545.1	11.2	13.5	-26.90	212.9	-575.5	187.3	169.8	17.48	10.714		
4,700.0	4,674.3	4,692.7	4,643.7	11.5	13.8	-26.87	218.7	-590.7	192.4	174.5	17.87	10.763		
4,800.0	4,773.6	4,792.5	4,742.2	11.7	14.1	-26.83	224.4	-605.9	197.5	179.2	18.27	10.811		
4,900.0	4,872.9	4,892.4	4,840.8	12.0	14.5	-26.80	230.1	-621.2	202.5	183.9	18.66	10.856		
5,000.0	4,972.2	4,992.3	4,939.3	12.3	14.8	-26.76	235.8	-636.4	207.6	188.6	19.05	10.900		
5,100.0	5,071.6	5,092.2	5,037.8	12.5	15.1	-26.73	241.5	-651.7	212.7	193.2	19.44	10.942		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	
5,200.0	5,170.9	5,194.7	5,139.0	12.8	15.5	-26.74	247.2	-666.9	217.3	197.5	19.84	10.955		
5,300.0	5,270.2	5,298.3	5,241.7	13.1	15.8	-26.90	252.3	-680.6	220.3	200.1	20.26	10.878		
5,400.0	5,369.5	5,402.1	5,344.6	13.3	16.0	-27.21	256.8	-692.6	221.7	201.0	20.69	10.716		
5,500.0	5,469.0	5,505.9	5,447.8	13.6	16.3	-27.51	260.7	-702.8	222.7	201.5	21.11	10.546		
5,600.0	5,568.7	5,609.7	5,551.2	13.8	16.5	-27.76	263.8	-711.3	223.4	201.9	21.51	10.386		
5,700.0	5,668.5	5,713.5	5,654.8	14.0	16.7	-27.96	266.4	-718.0	224.0	202.2	21.89	10.234		
5,800.0	5,768.3	5,817.3	5,758.5	14.2	16.9	-28.10	268.2	-723.0	224.5	202.3	22.25	10.091		
5,900.0	5,868.3	5,921.1	5,862.2	14.3	17.0	-28.19	269.4	-726.2	224.8	202.2	22.59	9.954		
6,000.0	5,968.3	6,024.9	5,966.0	14.4	17.1	-28.23	270.0	-727.7	225.0	202.1	22.90	9.823		
6,100.0	6,068.3	6,126.2	6,067.3	14.6	17.2	-90.00	270.0	-727.8	225.0	201.8	23.22	9.690		
6,200.0	6,168.3	6,226.2	6,167.3	14.7	17.4	-90.00	270.0	-727.8	225.0	201.4	23.54	9.558		
6,300.0	6,268.3	6,326.2	6,267.3	14.8	17.5	-90.00	270.0	-727.8	225.0	201.1	23.86	9.430		
6,400.0	6,368.3	6,426.2	6,367.3	15.0	17.6	-90.00	270.0	-727.8	225.0	200.8	24.18	9.305		
6,435.7	6,404.0	6,461.8	6,403.0	15.0	17.6	-90.10	269.6	-727.8	225.0	200.7	24.30	9.258		
6,500.0	6,468.3	6,525.5	6,466.3	15.1	17.6	-91.62	263.6	-727.8	225.1	200.4	24.67	9.123		
6,600.0	6,568.3	6,620.0	6,558.1	15.2	17.6	-97.11	242.0	-727.8	226.9	201.3	25.64	8.849		
6,700.0	6,668.1	6,706.8	6,638.3	15.3	17.6	75.02	209.0	-727.8	233.9	207.1	26.87	8.706		
6,800.0	6,766.0	6,789.5	6,709.3	15.3	17.6	67.71	166.7	-727.8	245.1	217.5	27.59	8.884		
6,900.0	6,858.9	6,869.2	6,771.3	15.3	17.5	61.53	116.6	-727.8	258.4	230.9	27.52	9.390		
7,000.0	6,944.0	6,950.0	6,826.4	15.2	17.5	56.36	57.6	-727.8	272.4	245.7	26.73	10.193		
7,100.0	7,018.8	7,022.3	6,868.2	15.2	17.6	52.55	-1.3	-727.8	285.6	260.1	25.49	11.204		
7,200.0	7,080.9	7,100.0	6,904.5	15.3	17.8	49.50	-70.0	-727.8	297.1	273.2	23.94	12.413		
7,300.0	7,128.6	7,169.9	6,929.0	15.5	18.0	47.47	-135.4	-727.8	306.2	283.4	22.81	13.422		
7,400.0	7,160.2	7,242.6	6,945.7	15.9	18.3	46.15	-206.1	-727.8	312.3	289.8	22.48	13.889		
7,500.0	7,174.9	7,314.8	6,953.5	16.5	18.7	45.55	-277.9	-727.8	315.2	291.8	23.33	13.509		
7,600.0	7,176.0	7,405.2	6,954.0	17.3	19.3	45.51	-368.2	-727.8	315.4	290.6	24.76	12.737		
7,700.0	7,176.0	7,505.2	6,954.0	18.2	20.1	45.51	-468.2	-727.8	315.4	289.2	26.20	12.036		
7,800.0	7,176.0	7,605.2	6,954.0	19.2	21.0	45.51	-568.2	-727.8	315.4	287.6	27.80	11.344		
7,900.0	7,176.0	7,705.2	6,954.0	20.3	22.0	45.51	-668.2	-727.8	315.4	285.8	29.52	10.681		
8,000.0	7,176.0	7,805.2	6,954.0	21.5	23.1	45.51	-768.2	-727.8	315.4	284.0	31.36	10.057		
8,100.0	7,176.0	7,905.2	6,954.0	22.8	24.3	45.51	-868.2	-727.8	315.4	282.1	33.28	9.476		
8,200.0	7,176.0	8,005.2	6,954.0	24.1	25.5	45.51	-968.2	-727.8	315.4	280.1	35.28	8.939		
8,300.0	7,176.0	8,105.2	6,954.0	25.5	26.8	45.51	-1,068.2	-727.8	315.4	278.0	37.34	8.446		
8,400.0	7,176.0	8,205.2	6,954.0	26.9	28.2	45.51	-1,168.2	-727.8	315.4	275.9	39.45	7.993		
8,500.0	7,176.0	8,305.2	6,954.0	28.4	29.6	45.51	-1,268.2	-727.8	315.4	273.7	41.61	7.579		
8,600.0	7,176.0	8,405.2	6,954.0	29.9	31.0	45.51	-1,368.2	-727.8	315.4	271.6	43.81	7.199		
8,700.0	7,176.0	8,505.2	6,954.0	31.4	32.5	45.51	-1,468.2	-727.8	315.4	269.3	46.04	6.850		
8,800.0	7,176.0	8,605.2	6,954.0	32.9	34.0	45.51	-1,568.2	-727.8	315.4	267.1	48.30	6.530		
8,900.0	7,176.0	8,705.2	6,954.0	34.5	35.5	45.51	-1,668.2	-727.8	315.4	264.8	50.58	6.235		
9,000.0	7,176.0	8,805.2	6,954.0	36.1	37.0	45.51	-1,768.2	-727.8	315.4	262.5	52.88	5.963		
9,100.0	7,176.0	8,905.2	6,954.0	37.7	38.6	45.51	-1,868.2	-727.8	315.4	260.2	55.20	5.713		
9,200.0	7,176.0	9,005.2	6,954.0	39.3	40.2	45.51	-1,968.2	-727.8	315.4	257.8	57.54	5.480		
9,300.0	7,176.0	9,105.2	6,954.0	40.9	41.8	45.51	-2,068.2	-727.8	315.4	255.5	59.90	5.265		
9,400.0	7,176.0	9,205.2	6,954.0	42.5	43.3	45.51	-2,168.2	-727.8	315.4	253.1	62.26	5.065		
9,500.0	7,176.0	9,305.2	6,954.0	44.2	45.0	45.51	-2,268.2	-727.8	315.4	250.7	64.64	4.879		
9,600.0	7,176.0	9,405.2	6,954.0	45.8	46.6	45.51	-2,368.2	-727.7	315.4	248.3	67.03	4.705		
9,700.0	7,176.0	9,505.2	6,954.0	47.5	48.2	45.51	-2,468.2	-727.7	315.4	245.9	69.42	4.542		
9,800.0	7,176.0	9,605.2	6,954.0	49.1	49.9	45.51	-2,568.2	-727.7	315.4	243.5	71.83	4.390		
9,900.0	7,176.0	9,705.2	6,954.0	50.8	51.5	45.51	-2,668.2	-727.7	315.4	241.1	74.24	4.248		
10,000.0	7,176.0	9,805.2	6,954.0	52.5	53.2	45.51	-2,768.2	-727.7	315.4	238.7	76.66	4.114		
10,100.0	7,176.0	9,905.2	6,954.0	54.2	54.8	45.51	-2,868.2	-727.7	315.4	236.3	79.09	3.987		
10,200.0	7,176.0	10,005.2	6,954.0	55.9	56.5	45.51	-2,968.2	-727.7	315.4	233.8	81.52	3.869		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,176.0	10,105.2	6,954.0	57.5	58.1	45.51	-3,068.2	-727.7	315.4	231.4	83.95	3.756		
10,400.0	7,176.0	10,205.2	6,954.0	59.2	59.8	45.51	-3,168.2	-727.7	315.4	229.0	86.39	3.650		
10,500.0	7,176.0	10,305.2	6,954.0	60.9	61.5	45.51	-3,268.2	-727.7	315.4	226.5	88.84	3.550		
10,600.0	7,176.0	10,405.2	6,954.0	62.6	63.2	45.51	-3,368.2	-727.7	315.4	224.1	91.29	3.454		
10,700.0	7,176.0	10,505.2	6,954.0	64.3	64.9	45.51	-3,468.2	-727.7	315.4	221.6	93.74	3.364		
10,800.0	7,176.0	10,605.2	6,954.0	66.0	66.6	45.51	-3,568.2	-727.7	315.4	219.2	96.20	3.278		
10,900.0	7,176.0	10,705.2	6,954.0	67.8	68.3	45.51	-3,668.2	-727.7	315.3	216.7	98.66	3.196		
11,000.0	7,176.0	10,805.2	6,954.0	69.5	70.0	45.51	-3,768.2	-727.7	315.3	214.2	101.12	3.119		
11,100.0	7,176.0	10,905.2	6,954.0	71.2	71.7	45.51	-3,868.2	-727.7	315.3	211.8	103.58	3.044		
11,200.0	7,176.0	11,005.2	6,954.0	72.9	73.4	45.51	-3,968.2	-727.7	315.3	209.3	106.05	2.974		
11,300.0	7,176.0	11,105.2	6,954.0	74.6	75.1	45.51	-4,068.2	-727.7	315.3	206.8	108.52	2.906		
11,400.0	7,176.0	11,205.2	6,954.0	76.3	76.8	45.51	-4,168.2	-727.7	315.3	204.4	110.99	2.841		
11,500.0	7,176.0	11,305.2	6,954.0	78.0	78.5	45.51	-4,268.2	-727.7	315.3	201.9	113.46	2.779		
11,600.0	7,176.0	11,405.2	6,954.0	79.8	80.2	45.51	-4,368.2	-727.7	315.3	199.4	115.94	2.720		
11,700.0	7,176.0	11,505.2	6,954.0	81.5	81.9	45.51	-4,468.2	-727.7	315.3	196.9	118.42	2.663		
11,759.9	7,176.0	11,565.1	6,954.0	82.5	82.9	45.51	-4,528.1	-727.7	315.3	195.4	119.90	2.630		
11,783.1	7,176.0	11,586.8	6,954.0	82.9	83.3	45.51	-4,549.8	-727.7	315.4	194.9	120.46	2.618 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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)				
0.0	0.0	0.0	0.0	0.0	0.0	90.10	0.0	7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	90.10	0.0	7.6	7.6	7.3	0.24	30.911		
200.0	200.0	200.0	200.0	0.3	0.3	90.10	0.0	7.6	7.6	7.0	0.59	12.728		
300.0	300.0	300.0	300.0	0.5	0.5	90.10	0.0	7.6	7.6	6.6	0.94	8.014		
400.0	400.0	400.0	400.0	0.6	0.6	90.10	0.0	7.6	7.6	6.3	1.29	5.848 CC		
428.0	428.0	428.0	428.0	0.7	0.7	151.98	0.0	7.6	7.6	6.2	1.39	5.458		
500.0	500.0	500.0	500.0	0.8	0.8	152.62	0.0	7.6	7.7	6.1	1.64	4.721 ES		
600.0	600.0	600.1	600.1	1.0	1.0	154.02	0.6	6.9	8.7	6.7	1.99	4.349		
700.0	699.9	700.2	700.2	1.2	1.2	152.87	2.4	5.0	9.8	7.5	2.34	4.195		
800.0	799.8	800.3	800.2	1.4	1.4	150.05	5.4	1.8	11.3	8.6	2.70	4.175		
900.0	899.5	900.5	900.1	1.6	1.5	146.31	9.6	-2.6	13.0	10.0	3.07	4.248		
1,000.0	999.2	1,000.5	999.9	1.8	1.8	143.02	14.8	-8.1	15.3	11.9	3.45	4.441		
1,100.0	1,098.6	1,100.4	1,099.5	2.0	2.0	143.53	20.1	-13.7	18.9	15.1	3.83	4.935		
1,200.0	1,197.9	1,200.3	1,199.1	2.2	2.2	145.53	25.5	-19.4	23.5	19.2	4.22	5.562		
1,300.0	1,297.3	1,300.2	1,298.7	2.5	2.4	146.91	30.8	-25.0	28.0	23.4	4.60	6.091		
1,400.0	1,396.6	1,400.1	1,398.3	2.7	2.6	147.90	36.1	-30.6	32.6	27.6	4.99	6.540		
1,500.0	1,495.9	1,500.0	1,497.9	3.0	2.8	148.65	41.4	-36.2	37.2	31.8	5.37	6.924		
1,600.0	1,595.2	1,599.9	1,597.5	3.3	3.0	149.23	46.7	-41.9	41.8	36.1	5.76	7.257		
1,700.0	1,694.6	1,699.8	1,697.1	3.5	3.2	149.70	52.0	-47.5	46.4	40.3	6.15	7.547		
1,800.0	1,793.9	1,799.7	1,796.7	3.8	3.4	150.08	57.4	-53.1	51.0	44.5	6.54	7.803		
1,900.0	1,893.2	1,899.6	1,896.3	4.0	3.7	150.40	62.7	-58.7	55.6	48.7	6.93	8.030		
2,000.0	1,992.5	1,999.5	1,995.9	4.3	3.9	150.67	68.0	-64.3	60.2	52.9	7.32	8.233		
2,100.0	2,091.8	2,099.4	2,095.4	4.6	4.1	150.91	73.3	-70.0	64.8	57.1	7.71	8.415		
2,200.0	2,191.2	2,199.3	2,195.0	4.8	4.3	151.11	78.6	-75.6	69.5	61.4	8.10	8.579		
2,300.0	2,290.5	2,299.2	2,294.6	5.1	4.5	151.28	84.0	-81.2	74.1	65.6	8.49	8.729		
2,400.0	2,389.8	2,399.0	2,394.2	5.3	4.7	151.44	89.3	-86.8	78.7	69.8	8.88	8.865		
2,500.0	2,489.1	2,498.9	2,493.8	5.6	5.0	151.58	94.6	-92.5	83.3	74.0	9.27	8.989		
2,600.0	2,588.5	2,598.8	2,593.4	5.9	5.2	151.70	99.9	-98.1	87.9	78.3	9.66	9.103		
2,700.0	2,687.8	2,698.7	2,693.0	6.1	5.4	151.81	105.2	-103.7	92.5	82.5	10.05	9.209		
2,800.0	2,787.1	2,798.6	2,792.6	6.4	5.6	151.91	110.6	-109.3	97.1	86.7	10.44	9.306		
2,900.0	2,886.4	2,898.5	2,892.2	6.7	5.8	152.01	115.9	-114.9	101.8	90.9	10.83	9.396		
3,000.0	2,985.8	2,998.4	2,991.8	6.9	6.1	152.09	121.2	-120.6	106.4	95.1	11.22	9.480		
3,100.0	3,085.1	3,098.3	3,091.4	7.2	6.3	152.17	126.5	-126.2	111.0	99.4	11.61	9.558		
3,200.0	3,184.4	3,198.2	3,191.0	7.5	6.5	152.24	131.8	-131.8	115.6	103.6	12.00	9.632		
3,300.0	3,283.7	3,298.1	3,290.6	7.7	6.7	152.30	137.2	-137.4	120.2	107.8	12.39	9.700		
3,400.0	3,383.1	3,398.0	3,390.2	8.0	6.9	152.36	142.5	-143.1	124.8	112.0	12.78	9.764		
3,500.0	3,482.4	3,497.9	3,489.8	8.3	7.2	152.42	147.8	-148.7	129.4	116.3	13.18	9.825		
3,600.0	3,581.7	3,597.8	3,589.3	8.5	7.4	152.47	153.1	-154.3	134.1	120.5	13.57	9.881		
3,700.0	3,681.0	3,697.7	3,688.9	8.8	7.6	152.52	158.4	-159.9	138.7	124.7	13.96	9.935		
3,800.0	3,780.4	3,797.6	3,788.5	9.1	7.8	152.57	163.7	-165.5	143.3	128.9	14.35	9.986		
3,900.0	3,879.7	3,897.4	3,888.1	9.3	8.0	152.61	169.1	-171.2	147.9	133.2	14.74	10.034		
4,000.0	3,979.0	3,997.3	3,987.7	9.6	8.3	152.65	174.4	-176.8	152.5	137.4	15.13	10.079		
4,100.0	4,078.3	4,097.2	4,087.3	9.9	8.5	152.69	179.7	-182.4	157.1	141.6	15.52	10.122		
4,200.0	4,177.6	4,197.1	4,186.9	10.1	8.7	152.72	185.0	-188.0	161.7	145.8	15.91	10.164		
4,300.0	4,277.0	4,297.0	4,286.5	10.4	8.9	152.76	190.3	-193.7	166.4	150.1	16.31	10.203		
4,400.0	4,376.3	4,396.9	4,386.1	10.7	9.1	152.79	195.7	-199.3	171.0	154.3	16.70	10.240		
4,500.0	4,475.6	4,496.8	4,485.7	10.9	9.4	152.82	201.0	-204.9	175.6	158.5	17.09	10.275		
4,600.0	4,574.9	4,596.7	4,585.3	11.2	9.6	152.85	206.3	-210.5	180.2	162.7	17.48	10.309		
4,700.0	4,674.3	4,696.6	4,684.9	11.5	9.8	152.88	211.6	-216.2	184.8	167.0	17.87	10.342		
4,800.0	4,773.6	4,796.5	4,784.5	11.7	10.0	152.90	216.9	-221.8	189.4	171.2	18.26	10.373		
4,900.0	4,872.9	4,896.4	4,884.1	12.0	10.2	152.93	222.3	-227.4	194.1	175.4	18.66	10.402		
5,000.0	4,972.2	4,996.3	4,983.6	12.3	10.5	152.95	227.6	-233.0	198.7	179.6	19.05	10.431		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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		
5,100.0	5,071.6	5,096.2	5,083.2	12.5	10.7	152.97	232.9	-238.6	203.3	183.9	19.44	10.458		
5,200.0	5,170.9	5,196.1	5,182.8	12.8	10.9	152.99	238.2	-244.3	207.9	188.1	19.83	10.484		
5,300.0	5,270.2	5,296.0	5,282.4	13.1	11.1	153.01	243.5	-249.9	212.5	192.3	20.22	10.510		
5,400.0	5,369.5	5,395.9	5,382.0	13.3	11.3	153.03	248.9	-255.5	217.0	196.4	20.62	10.528		
5,500.0	5,469.0	5,495.8	5,481.7	13.6	11.6	152.89	254.2	-261.1	220.3	199.3	21.02	10.482		
5,600.0	5,568.7	5,595.1	5,580.6	13.8	11.8	152.55	259.4	-266.7	222.1	200.7	21.43	10.363		
5,700.0	5,668.5	5,692.3	5,677.6	14.0	12.0	152.23	263.8	-271.3	223.3	201.5	21.82	10.231		
5,800.0	5,768.3	5,789.5	5,774.8	14.2	12.1	151.99	266.9	-274.6	224.1	201.9	22.19	10.101		
5,900.0	5,868.3	5,886.7	5,871.9	14.3	12.3	151.84	269.0	-276.8	224.7	202.2	22.53	9.973		
6,000.0	5,968.3	5,983.9	5,969.1	14.4	12.5	151.77	269.9	-277.8	224.9	202.1	22.84	9.847		
6,100.0	6,068.3	6,083.1	6,068.3	14.6	12.6	90.00	270.0	-277.8	225.0	201.8	23.16	9.714		
6,200.0	6,168.3	6,183.1	6,168.3	14.7	12.7	90.00	270.0	-277.8	225.0	201.5	23.48	9.582		
6,300.0	6,268.3	6,283.1	6,268.3	14.8	12.9	90.00	270.0	-277.8	225.0	201.2	23.80	9.453		
6,400.0	6,368.3	6,383.1	6,368.3	15.0	13.0	90.00	270.0	-277.8	225.0	200.8	24.12	9.328		
6,500.0	6,468.3	6,483.1	6,468.3	15.1	13.2	90.00	270.0	-277.8	225.0	200.5	24.44	9.205		
6,530.3	6,498.6	6,513.4	6,498.5	15.1	13.2	90.15	269.4	-277.8	225.0	200.4	24.51	9.177		
6,600.0	6,568.3	6,582.2	6,567.0	15.2	13.3	91.98	262.2	-277.8	225.1	200.6	24.50	9.186		
6,700.0	6,668.1	6,677.0	6,658.8	15.3	13.3	-82.87	239.0	-277.8	226.8	202.6	24.21	9.367		
6,800.0	6,766.0	6,768.5	6,742.7	15.3	13.2	-77.81	202.6	-277.8	230.4	206.4	23.91	9.633		
6,900.0	6,858.9	6,857.5	6,817.6	15.3	13.1	-73.28	154.8	-277.8	235.2	211.5	23.73	9.913		
7,000.0	6,944.0	6,944.3	6,882.7	15.2	13.1	-69.38	97.6	-277.8	240.7	217.1	23.66	10.174		
7,100.0	7,018.8	7,029.4	6,937.5	15.2	13.2	-66.16	32.5	-277.8	246.3	222.6	23.72	10.383		
7,200.0	7,080.9	7,113.1	6,981.4	15.3	13.4	-63.62	-38.7	-277.8	251.4	227.6	23.82	10.552		
7,300.0	7,128.6	7,200.0	7,015.5	15.5	13.7	-61.69	-118.5	-277.8	255.6	231.5	24.09	10.610		
7,400.0	7,160.2	7,277.9	7,035.5	15.9	14.1	-60.56	-193.7	-277.8	258.4	233.9	24.50	10.547		
7,500.0	7,174.9	7,359.5	7,045.3	16.5	14.7	-60.02	-274.6	-277.8	259.7	234.6	25.15	10.327		
7,600.0	7,176.0	7,453.0	7,046.0	17.3	15.5	-59.98	-368.2	-277.8	259.8	233.3	26.51	9.802		
7,700.0	7,176.0	7,553.0	7,046.0	18.2	16.5	-59.98	-468.2	-277.8	259.8	231.5	28.32	9.176		
7,800.0	7,176.0	7,653.0	7,046.0	19.2	17.6	-59.98	-568.2	-277.8	259.8	229.5	30.32	8.569		
7,900.0	7,176.0	7,753.0	7,046.0	20.3	18.8	-59.98	-668.2	-277.8	259.8	227.3	32.49	7.997		
8,000.0	7,176.0	7,853.0	7,046.0	21.5	20.1	-59.98	-768.2	-277.8	259.8	225.0	34.79	7.468		
8,100.0	7,176.0	7,953.0	7,046.0	22.8	21.4	-59.98	-868.2	-277.8	259.8	222.6	37.20	6.985		
8,200.0	7,176.0	8,053.0	7,046.0	24.1	22.8	-59.98	-968.2	-277.8	259.8	220.1	39.69	6.546		
8,300.0	7,176.0	8,153.0	7,046.0	25.5	24.3	-59.98	-1,068.2	-277.8	259.8	217.6	42.26	6.149		
8,400.0	7,176.0	8,253.0	7,046.0	26.9	25.8	-59.98	-1,168.2	-277.8	259.8	214.9	44.88	5.789		
8,500.0	7,176.0	8,353.0	7,046.0	28.4	27.3	-59.98	-1,268.2	-277.8	259.8	212.3	47.56	5.463		
8,600.0	7,176.0	8,453.0	7,046.0	29.9	28.8	-59.98	-1,368.2	-277.8	259.8	209.5	50.28	5.168		
8,700.0	7,176.0	8,553.0	7,046.0	31.4	30.4	-59.98	-1,468.2	-277.8	259.8	206.8	53.03	4.899		
8,800.0	7,176.0	8,653.0	7,046.0	32.9	32.0	-59.98	-1,568.2	-277.8	259.8	204.0	55.81	4.655		
8,900.0	7,176.0	8,753.0	7,046.0	34.5	33.6	-59.98	-1,668.2	-277.8	259.8	201.2	58.62	4.432		
9,000.0	7,176.0	8,853.0	7,046.0	36.1	35.2	-59.98	-1,768.2	-277.8	259.8	198.4	61.45	4.228		
9,100.0	7,176.0	8,953.0	7,046.0	37.7	36.9	-59.98	-1,868.2	-277.8	259.8	195.5	64.31	4.040		
9,200.0	7,176.0	9,053.0	7,046.0	39.3	38.5	-59.98	-1,968.2	-277.8	259.8	192.6	67.17	3.868		
9,300.0	7,176.0	9,153.0	7,046.0	40.9	40.2	-59.98	-2,068.2	-277.8	259.8	189.8	70.06	3.709		
9,400.0	7,176.0	9,253.0	7,046.0	42.5	41.8	-59.98	-2,168.2	-277.8	259.8	186.9	72.95	3.561		
9,500.0	7,176.0	9,353.0	7,046.0	44.2	43.5	-59.98	-2,268.2	-277.8	259.8	184.0	75.86	3.425		
9,600.0	7,176.0	9,453.0	7,046.0	45.8	45.2	-59.98	-2,368.2	-277.8	259.8	181.0	78.78	3.298		
9,700.0	7,176.0	9,553.0	7,046.0	47.5	46.8	-59.98	-2,468.2	-277.8	259.8	178.1	81.70	3.180		
9,800.0	7,176.0	9,653.0	7,046.0	49.1	48.5	-59.98	-2,568.2	-277.8	259.8	175.2	84.64	3.070		
9,900.0	7,176.0	9,753.0	7,046.0	50.8	50.2	-59.98	-2,668.2	-277.8	259.8	172.2	87.58	2.966		
10,000.0	7,176.0	9,853.0	7,046.0	52.5	51.9	-59.98	-2,768.2	-277.8	259.8	169.3	90.53	2.870		
10,100.0	7,176.0	9,953.0	7,046.0	54.2	53.6	-59.98	-2,868.2	-277.8	259.8	166.3	93.49	2.779		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	7,176.0	10,053.0	7,046.0	55.9	55.3	-59.98	-2,968.2	-277.8	259.8	163.4	96.45	2.694		
10,300.0	7,176.0	10,153.0	7,046.0	57.5	57.0	-59.98	-3,068.2	-277.8	259.8	160.4	99.41	2.613		
10,400.0	7,176.0	10,253.0	7,046.0	59.2	58.7	-59.98	-3,168.2	-277.8	259.8	157.4	102.38	2.538		
10,500.0	7,176.0	10,353.0	7,046.0	60.9	60.4	-59.98	-3,268.2	-277.8	259.8	154.5	105.36	2.466		
10,600.0	7,176.0	10,453.0	7,046.0	62.6	62.1	-59.98	-3,368.2	-277.8	259.8	151.5	108.34	2.398		
10,700.0	7,176.0	10,553.0	7,046.0	64.3	63.9	-59.98	-3,468.2	-277.8	259.8	148.5	111.32	2.334		
10,800.0	7,176.0	10,653.0	7,046.0	66.0	65.6	-59.98	-3,568.2	-277.8	259.8	145.5	114.30	2.273		
10,900.0	7,176.0	10,753.0	7,046.0	67.8	67.3	-59.98	-3,668.2	-277.8	259.8	142.5	117.29	2.215		
11,000.0	7,176.0	10,853.0	7,046.0	69.5	69.0	-59.98	-3,768.2	-277.8	259.8	139.5	120.28	2.160		
11,100.0	7,176.0	10,953.0	7,046.0	71.2	70.7	-59.98	-3,868.2	-277.8	259.8	136.5	123.28	2.108		
11,200.0	7,176.0	11,053.0	7,046.0	72.9	72.5	-59.98	-3,968.2	-277.8	259.8	133.5	126.27	2.058		
11,300.0	7,176.0	11,153.0	7,046.0	74.6	74.2	-59.98	-4,068.2	-277.8	259.8	130.5	129.27	2.010		
11,400.0	7,176.0	11,253.0	7,046.0	76.3	75.9	-59.98	-4,168.2	-277.8	259.8	127.5	132.27	1.964		
11,500.0	7,176.0	11,353.0	7,046.0	78.0	77.6	-59.98	-4,268.2	-277.8	259.8	124.5	135.27	1.921		
11,600.0	7,176.0	11,453.0	7,046.0	79.8	79.4	-59.98	-4,368.2	-277.8	259.8	121.5	138.28	1.879		
11,700.0	7,176.0	11,553.0	7,046.0	81.5	81.1	-59.98	-4,468.2	-277.8	259.8	118.5	141.28	1.839		
11,783.1	7,176.0	11,636.1	7,046.0	82.9	82.5	-59.98	-4,551.2	-277.8	259.8	116.0	143.78	1.807 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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		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	91.24	-0.3	15.1	15.1					
100.0	100.0	100.0	100.0	0.1	0.1	91.24	-0.3	15.1	15.1	14.9	0.24	61.836		
200.0	200.0	200.0	200.0	0.3	0.3	91.24	-0.3	15.1	15.1	14.5	0.59	25.462		
300.0	300.0	300.0	300.0	0.5	0.5	91.24	-0.3	15.1	15.1	14.2	0.94	16.032		
400.0	400.0	400.0	400.0	0.6	0.6	91.24	-0.3	15.1	15.1	13.8	1.29	11.699 CC		
428.0	428.0	428.0	428.0	0.7	0.7	153.06	-0.3	15.1	15.1	13.8	1.39	10.898		
500.0	500.0	500.0	500.0	0.8	0.8	152.58	-0.1	15.1	15.2	13.6	1.64	9.293 ES		
600.0	600.0	600.1	600.1	1.0	1.0	149.48	1.6	14.6	16.4	14.4	1.99	8.220		
700.0	699.9	700.1	700.0	1.2	1.2	144.43	5.0	13.8	18.7	16.4	2.35	7.979		
800.0	799.8	800.0	799.8	1.4	1.4	139.38	9.9	12.5	22.5	19.8	2.71	8.283		
900.0	899.5	899.9	899.5	1.6	1.6	137.78	15.0	11.2	27.6	24.5	3.09	8.947		
1,000.0	999.2	999.7	999.2	1.8	1.7	138.68	20.1	10.0	34.1	30.6	3.47	9.827		
1,100.0	1,098.6	1,099.4	1,098.7	2.0	1.9	140.83	25.2	8.7	41.9	38.0	3.85	10.872		
1,200.0	1,197.9	1,199.0	1,198.2	2.2	2.1	143.12	30.4	7.4	50.6	46.4	4.23	11.947		
1,300.0	1,297.3	1,298.6	1,297.7	2.5	2.3	144.76	35.5	6.1	59.4	54.8	4.62	12.856		
1,400.0	1,396.6	1,398.2	1,397.1	2.7	2.5	145.97	40.6	4.8	68.2	63.2	5.01	13.630		
1,500.0	1,495.9	1,497.8	1,496.6	3.0	2.7	146.91	45.7	3.5	77.1	71.7	5.39	14.296		
1,600.0	1,595.2	1,597.4	1,596.0	3.3	2.9	147.65	50.8	2.2	86.0	80.2	5.78	14.875		
1,700.0	1,694.6	1,697.0	1,695.5	3.5	3.1	148.25	56.0	0.9	94.9	88.7	6.17	15.382		
1,800.0	1,793.9	1,796.6	1,795.0	3.8	3.3	148.75	61.1	-0.4	103.8	97.2	6.56	15.829		
1,900.0	1,893.2	1,896.2	1,894.4	4.0	3.5	149.17	66.2	-1.6	112.7	105.8	6.95	16.227		
2,000.0	1,992.5	1,995.8	1,993.9	4.3	3.7	149.53	71.3	-2.9	121.6	114.3	7.34	16.583		
2,100.0	2,091.8	2,095.4	2,093.3	4.6	3.9	149.84	76.4	-4.2	130.6	122.8	7.72	16.903		
2,200.0	2,191.2	2,195.0	2,192.8	4.8	4.1	150.11	81.5	-5.5	139.5	131.4	8.11	17.192		
2,300.0	2,290.5	2,294.6	2,292.2	5.1	4.3	150.35	86.7	-6.8	148.4	139.9	8.50	17.455		
2,400.0	2,389.8	2,394.2	2,391.7	5.3	4.5	150.56	91.8	-8.1	157.3	148.4	8.89	17.695		
2,500.0	2,489.1	2,493.8	2,491.2	5.6	4.7	150.74	96.9	-9.4	166.3	157.0	9.28	17.915		
2,600.0	2,588.5	2,593.4	2,590.6	5.9	4.9	150.91	102.0	-10.7	175.2	165.5	9.67	18.117		
2,700.0	2,687.8	2,692.9	2,690.1	6.1	5.0	151.06	107.1	-12.0	184.1	174.1	10.06	18.304		
2,800.0	2,787.1	2,792.5	2,789.5	6.4	5.2	151.20	112.3	-13.2	193.1	182.6	10.45	18.477		
2,900.0	2,886.4	2,892.1	2,889.0	6.7	5.4	151.33	117.4	-14.5	202.0	191.2	10.84	18.637		
3,000.0	2,985.8	2,991.7	2,988.5	6.9	5.6	151.44	122.5	-15.8	211.0	199.7	11.23	18.786		
3,100.0	3,085.1	3,091.3	3,087.9	7.2	5.8	151.55	127.6	-17.1	219.9	208.3	11.62	18.925		
3,200.0	3,184.4	3,190.9	3,187.4	7.5	6.0	151.65	132.7	-18.4	228.8	216.8	12.01	19.055		
3,300.0	3,283.7	3,290.5	3,286.8	7.7	6.2	151.74	137.9	-19.7	237.8	225.4	12.40	19.177		
3,400.0	3,383.1	3,390.1	3,386.3	8.0	6.4	151.82	143.0	-21.0	246.7	233.9	12.79	19.291		
3,500.0	3,482.4	3,489.7	3,485.8	8.3	6.6	151.90	148.1	-22.3	255.7	242.5	13.18	19.398		
3,600.0	3,581.7	3,589.3	3,585.2	8.5	6.8	151.97	153.2	-23.6	264.6	251.0	13.57	19.500		
3,700.0	3,681.0	3,688.9	3,684.7	8.8	7.0	152.04	158.3	-24.9	273.5	259.6	13.96	19.595		
3,800.0	3,780.4	3,788.5	3,784.1	9.1	7.2	152.10	163.4	-26.1	282.5	268.1	14.35	19.686		
3,900.0	3,879.7	3,888.1	3,883.6	9.3	7.4	152.16	168.6	-27.4	291.4	276.7	14.74	19.772		
4,000.0	3,979.0	3,987.7	3,983.0	9.6	7.6	152.22	173.7	-28.7	300.4	285.2	15.13	19.853		
4,100.0	4,078.3	4,087.3	4,082.5	9.9	7.8	152.27	178.8	-30.0	309.3	293.8	15.52	19.930		
4,200.0	4,177.6	4,186.9	4,182.0	10.1	8.0	152.32	183.9	-31.3	318.3	302.3	15.91	20.003		
4,300.0	4,277.0	4,286.5	4,281.4	10.4	8.2	152.37	189.0	-32.6	327.2	310.9	16.30	20.073		
4,400.0	4,376.3	4,386.1	4,380.9	10.7	8.4	152.41	194.2	-33.9	336.1	319.5	16.69	20.140		
4,500.0	4,475.6	4,485.7	4,480.3	10.9	8.6	152.46	199.3	-35.2	345.1	328.0	17.08	20.203		
4,600.0	4,574.9	4,585.3	4,579.8	11.2	8.8	152.50	204.4	-36.5	354.0	336.6	17.47	20.264		
4,700.0	4,674.3	4,684.9	4,679.3	11.5	9.0	152.54	209.5	-37.7	363.0	345.1	17.86	20.322		
4,800.0	4,773.6	4,784.5	4,778.7	11.7	9.2	152.57	214.6	-39.0	371.9	353.7	18.25	20.377		
4,900.0	4,872.9	4,884.1	4,878.2	12.0	9.4	152.61	219.8	-40.3	380.9	362.2	18.64	20.431		
5,000.0	4,972.2	4,983.7	4,977.6	12.3	9.6	152.64	224.9	-41.6	389.8	370.8	19.03	20.482		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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			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	5,071.6	5,083.3	5,077.1	12.5	9.8	152.67	230.0	-42.9	398.8	379.3	19.42	20.530		
5,200.0	5,170.9	5,182.9	5,176.6	12.8	10.0	152.70	235.1	-44.2	407.7	387.9	19.81	20.577		
5,300.0	5,270.2	5,282.5	5,276.0	13.1	10.2	152.73	240.2	-45.5	416.6	396.4	20.20	20.623		
5,400.0	5,369.5	5,382.1	5,375.5	13.3	10.4	152.77	245.4	-46.8	425.5	404.9	20.60	20.659		
5,500.0	5,469.0	5,481.8	5,475.0	13.6	10.5	152.74	250.5	-48.1	433.1	412.1	20.99	20.633		
5,600.0	5,568.7	5,581.6	5,574.7	13.8	10.7	152.60	255.6	-49.4	439.2	417.8	21.39	20.536		
5,700.0	5,668.5	5,681.5	5,674.4	14.0	10.9	152.36	260.7	-50.6	443.8	422.0	21.78	20.373		
5,800.0	5,768.3	5,779.9	5,772.8	14.2	11.1	152.07	265.3	-51.8	446.9	424.7	22.16	20.169		
5,900.0	5,868.3	5,878.0	5,870.8	14.3	11.3	151.89	268.3	-52.5	448.9	426.4	22.51	19.947		
6,000.0	5,968.3	5,976.1	5,968.9	14.4	11.5	151.81	269.6	-52.9	449.8	427.0	22.82	19.709		
6,100.0	6,068.3	6,075.5	6,068.3	14.6	11.6	90.04	269.7	-52.9	449.9	426.8	23.14	19.443		
6,200.0	6,168.3	6,175.5	6,168.3	14.7	11.8	90.04	269.7	-52.9	449.9	426.4	23.46	19.178		
6,300.0	6,268.3	6,275.5	6,268.3	14.8	11.9	90.04	269.7	-52.9	449.9	426.1	23.78	18.920		
6,400.0	6,368.3	6,375.5	6,368.3	15.0	12.1	90.04	269.7	-52.9	449.9	425.8	24.10	18.668		
6,433.3	6,401.6	6,408.8	6,401.6	15.0	12.1	90.08	269.3	-52.9	449.9	425.7	24.20	18.593		
6,500.0	6,468.3	6,474.8	6,467.3	15.1	12.2	90.85	263.3	-52.9	450.0	425.7	24.30	18.518		
6,600.0	6,568.3	6,569.2	6,559.1	15.2	12.2	93.61	241.6	-52.9	450.9	426.6	24.28	18.570		
6,700.0	6,668.1	6,656.0	6,639.2	15.3	12.1	-82.34	208.7	-52.9	454.5	430.4	24.12	18.842		
6,800.0	6,766.0	6,738.6	6,710.2	15.3	12.1	-78.38	166.4	-52.9	460.3	436.4	23.93	19.240		
6,900.0	6,858.9	6,818.4	6,772.1	15.3	12.0	-74.80	116.4	-52.9	467.6	443.8	23.79	19.659		
7,000.0	6,944.0	6,900.0	6,827.8	15.2	12.1	-71.54	56.7	-52.9	475.5	451.8	23.73	20.039		
7,100.0	7,018.8	6,971.4	6,869.1	15.2	12.2	-69.02	-1.5	-52.9	483.2	459.4	23.78	20.316		
7,200.0	7,080.9	7,050.0	6,905.8	15.3	12.4	-66.84	-70.9	-52.9	490.1	466.1	23.97	20.444		
7,300.0	7,128.6	7,119.0	6,929.9	15.5	12.7	-65.35	-135.5	-52.9	495.6	471.3	24.31	20.385		
7,400.0	7,160.2	7,191.7	6,946.7	15.9	13.2	-64.33	-206.1	-52.9	499.4	474.5	24.86	20.083		
7,500.0	7,174.9	7,263.9	6,954.4	16.5	13.7	-63.87	-278.0	-52.9	501.1	475.5	25.67	19.521		
7,600.0	7,176.0	7,354.2	6,955.0	17.3	14.6	-63.84	-368.2	-52.9	501.3	474.1	27.12	18.485		
7,700.0	7,176.0	7,454.2	6,955.0	18.2	15.6	-63.84	-468.2	-52.9	501.3	472.3	28.99	17.291		
7,800.0	7,176.0	7,554.2	6,955.0	19.2	16.8	-63.84	-568.2	-52.9	501.3	470.2	31.07	16.134		
7,900.0	7,176.0	7,654.2	6,955.0	20.3	18.0	-63.84	-668.2	-52.9	501.3	467.9	33.32	15.044		
8,000.0	7,176.0	7,754.2	6,955.0	21.5	19.4	-63.84	-768.2	-52.9	501.3	465.5	35.70	14.039		
8,100.0	7,176.0	7,854.2	6,955.0	22.8	20.8	-63.84	-868.2	-52.9	501.3	463.1	38.20	13.121		
8,200.0	7,176.0	7,954.2	6,955.0	24.1	22.2	-63.84	-968.2	-52.9	501.3	460.5	40.79	12.288		
8,300.0	7,176.0	8,054.2	6,955.0	25.5	23.7	-63.84	-1,068.2	-52.9	501.3	457.8	43.46	11.535		
8,400.0	7,176.0	8,154.2	6,955.0	26.9	25.2	-63.84	-1,168.2	-52.9	501.3	455.1	46.18	10.854		
8,500.0	7,176.0	8,254.2	6,955.0	28.4	26.8	-63.84	-1,268.2	-52.9	501.3	452.3	48.96	10.238		
8,600.0	7,176.0	8,354.2	6,955.0	29.9	28.3	-63.84	-1,368.2	-52.9	501.3	449.5	51.78	9.681		
8,700.0	7,176.0	8,454.2	6,955.0	31.4	29.9	-63.84	-1,468.2	-52.9	501.3	446.6	54.64	9.174		
8,800.0	7,176.0	8,554.2	6,955.0	32.9	31.6	-63.84	-1,568.2	-52.9	501.3	443.7	57.52	8.714		
8,900.0	7,176.0	8,654.2	6,955.0	34.5	33.2	-63.84	-1,668.2	-52.9	501.3	440.8	60.44	8.294		
9,000.0	7,176.0	8,754.2	6,955.0	36.1	34.8	-63.84	-1,768.2	-52.9	501.3	437.9	63.37	7.909		
9,100.0	7,176.0	8,854.2	6,955.0	37.7	36.5	-63.84	-1,868.2	-52.9	501.3	434.9	66.33	7.557		
9,200.0	7,176.0	8,954.2	6,955.0	39.3	38.1	-63.84	-1,968.2	-52.9	501.3	431.9	69.31	7.232		
9,300.0	7,176.0	9,054.2	6,955.0	40.9	39.8	-63.84	-2,068.2	-52.9	501.3	429.0	72.30	6.933		
9,400.0	7,176.0	9,154.2	6,955.0	42.5	41.5	-63.84	-2,168.2	-52.9	501.3	426.0	75.30	6.657		
9,500.0	7,176.0	9,254.2	6,955.0	44.2	43.1	-63.84	-2,268.2	-52.9	501.3	422.9	78.31	6.401		
9,600.0	7,176.0	9,354.2	6,955.0	45.8	44.8	-63.84	-2,368.2	-52.9	501.3	419.9	81.34	6.162		
9,700.0	7,176.0	9,454.2	6,955.0	47.5	46.5	-63.84	-2,468.2	-52.9	501.3	416.9	84.37	5.941		
9,800.0	7,176.0	9,554.2	6,955.0	49.1	48.2	-63.84	-2,568.2	-52.9	501.3	413.8	87.42	5.734		
9,900.0	7,176.0	9,654.2	6,955.0	50.8	49.9	-63.84	-2,668.2	-52.9	501.3	410.8	90.47	5.541		
10,000.0	7,176.0	9,754.2	6,955.0	52.5	51.6	-63.84	-2,768.2	-52.9	501.3	407.7	93.53	5.360		
10,100.0	7,176.0	9,854.2	6,955.0	54.2	53.3	-63.84	-2,868.2	-52.9	501.3	404.7	96.59	5.190		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	7,176.0	9,954.2	6,955.0	55.9	55.0	-63.84	-2,968.2	-52.9	501.3	401.6	99.66	5.030		
10,300.0	7,176.0	10,054.2	6,955.0	57.5	56.8	-63.84	-3,068.2	-52.9	501.3	398.5	102.73	4.879		
10,400.0	7,176.0	10,154.2	6,955.0	59.2	58.5	-63.84	-3,168.2	-52.9	501.3	395.4	105.81	4.737		
10,500.0	7,176.0	10,254.2	6,955.0	60.9	60.2	-63.84	-3,268.2	-52.9	501.3	392.4	108.89	4.603		
10,600.0	7,176.0	10,354.2	6,955.0	62.6	61.9	-63.84	-3,368.2	-52.9	501.3	389.3	111.98	4.476		
10,700.0	7,176.0	10,454.2	6,955.0	64.3	63.6	-63.84	-3,468.2	-52.9	501.3	386.2	115.07	4.356		
10,800.0	7,176.0	10,554.2	6,955.0	66.0	65.3	-63.84	-3,568.2	-52.9	501.3	383.1	118.17	4.242		
10,900.0	7,176.0	10,654.2	6,955.0	67.8	67.1	-63.84	-3,668.2	-52.9	501.3	380.0	121.26	4.134		
11,000.0	7,176.0	10,754.2	6,955.0	69.5	68.8	-63.84	-3,768.2	-52.9	501.3	376.9	124.36	4.031		
11,100.0	7,176.0	10,854.2	6,955.0	71.2	70.5	-63.84	-3,868.2	-52.9	501.3	373.8	127.47	3.932		
11,200.0	7,176.0	10,954.2	6,955.0	72.9	72.3	-63.84	-3,968.2	-52.9	501.3	370.7	130.57	3.839		
11,300.0	7,176.0	11,054.2	6,955.0	74.6	74.0	-63.84	-4,068.2	-52.9	501.3	367.6	133.68	3.750		
11,400.0	7,176.0	11,154.2	6,955.0	76.3	75.7	-63.84	-4,168.2	-52.9	501.2	364.5	136.79	3.664		
11,500.0	7,176.0	11,254.2	6,955.0	78.0	77.4	-63.84	-4,268.2	-52.9	501.2	361.4	139.90	3.583		
11,600.0	7,176.0	11,354.2	6,955.0	79.8	79.2	-63.84	-4,368.2	-52.9	501.2	358.2	143.01	3.505		
11,700.0	7,176.0	11,454.2	6,955.0	81.5	80.9	-63.84	-4,468.2	-52.9	501.2	355.1	146.13	3.430		
11,783.1	7,176.0	11,537.2	6,955.0	82.9	82.4	-63.84	-4,551.2	-52.9	501.2	352.5	148.72	3.371 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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	1.0	1.0	0.0	0.0	90.86	-0.3	22.7	22.7					
100.0	100.0	101.0	101.0	0.1	0.1	90.86	-0.3	22.7	22.7	22.4	0.25	92.085		
200.0	200.0	201.0	201.0	0.3	0.3	90.86	-0.3	22.7	22.7	22.1	0.60	38.076		
300.0	300.0	301.0	301.0	0.5	0.5	90.86	-0.3	22.7	22.7	21.7	0.94	24.000		
366.3	366.3	367.3	367.3	0.6	0.6	90.86	-0.3	22.7	22.7	21.5	1.18	19.274 CC		
400.0	400.0	401.0	401.0	0.6	0.6	90.86	-0.3	22.7	22.7	21.4	1.29	17.522 ES		
500.0	500.0	500.8	500.8	0.8	0.8	150.94	0.4	23.1	23.3	21.6	1.64	14.177		
600.0	600.0	600.5	600.5	1.0	1.0	147.79	2.7	24.4	26.2	24.2	1.99	13.120		
700.0	699.9	700.1	699.9	1.2	1.2	144.49	6.5	26.5	31.5	29.2	2.35	13.422		
800.0	799.8	799.7	799.4	1.4	1.4	142.12	11.5	29.2	39.2	36.5	2.71	14.467		
900.0	899.5	899.2	898.8	1.6	1.6	141.72	16.6	32.1	48.4	45.3	3.08	15.714		
1,000.0	999.2	998.7	998.0	1.8	1.8	142.48	21.7	34.9	58.9	55.4	3.45	17.064		
1,100.0	1,098.6	1,097.9	1,097.1	2.0	2.0	143.84	26.8	37.7	70.8	67.0	3.83	18.491		
1,200.0	1,197.9	1,197.1	1,196.1	2.2	2.2	145.29	31.9	40.5	83.7	79.5	4.21	19.869		
1,300.0	1,297.3	1,296.2	1,295.1	2.5	2.3	146.38	37.0	43.3	96.7	92.1	4.60	21.022		
1,400.0	1,396.6	1,395.4	1,394.1	2.7	2.5	147.21	42.0	46.2	109.6	104.6	4.98	21.997		
1,500.0	1,495.9	1,494.5	1,493.0	3.0	2.7	147.86	47.1	49.0	122.6	117.2	5.37	22.832		
1,600.0	1,595.2	1,593.7	1,592.0	3.3	2.9	148.39	52.2	51.8	135.6	129.9	5.76	23.554		
1,700.0	1,694.6	1,692.8	1,691.0	3.5	3.1	148.83	57.3	54.6	148.6	142.5	6.15	24.185		
1,800.0	1,793.9	1,792.0	1,790.0	3.8	3.3	149.19	62.3	57.4	161.6	155.1	6.53	24.741		
1,900.0	1,893.2	1,891.1	1,888.9	4.0	3.5	149.50	67.4	60.2	174.7	167.7	6.92	25.233		
2,000.0	1,992.5	1,990.2	1,987.9	4.3	3.7	149.77	72.5	63.0	187.7	180.4	7.31	25.673		
2,100.0	2,091.8	2,089.4	2,086.9	4.6	3.9	150.00	77.6	65.9	200.7	193.0	7.70	26.069		
2,200.0	2,191.2	2,188.5	2,185.8	4.8	4.1	150.21	82.6	68.7	213.8	205.7	8.09	26.426		
2,300.0	2,290.5	2,287.7	2,284.8	5.1	4.3	150.39	87.7	71.5	226.8	218.3	8.48	26.750		
2,400.0	2,389.8	2,386.8	2,383.8	5.3	4.5	150.55	92.8	74.3	239.8	231.0	8.87	27.045		
2,500.0	2,489.1	2,486.0	2,482.8	5.6	4.7	150.70	97.9	77.1	252.9	243.6	9.26	27.315		
2,600.0	2,588.5	2,585.1	2,581.7	5.9	4.9	150.83	103.0	79.9	265.9	256.3	9.65	27.563		
2,700.0	2,687.8	2,684.3	2,680.7	6.1	5.1	150.94	108.0	82.7	279.0	268.9	10.04	27.792		
2,800.0	2,787.1	2,783.4	2,779.7	6.4	5.3	151.05	113.1	85.6	292.0	281.6	10.43	28.003		
2,900.0	2,886.4	2,882.5	2,878.7	6.7	5.5	151.15	118.2	88.4	305.0	294.2	10.82	28.199		
3,000.0	2,985.8	2,981.7	2,977.6	6.9	5.7	151.24	123.3	91.2	318.1	306.9	11.21	28.382		
3,100.0	3,085.1	3,080.8	3,076.6	7.2	5.9	151.32	128.3	94.0	331.1	319.5	11.60	28.552		
3,200.0	3,184.4	3,180.0	3,175.6	7.5	6.1	151.40	133.4	96.8	344.2	332.2	11.99	28.711		
3,300.0	3,283.7	3,279.1	3,274.6	7.7	6.3	151.47	138.5	99.6	357.2	344.8	12.38	28.859		
3,400.0	3,383.1	3,378.3	3,373.5	8.0	6.5	151.54	143.6	102.4	370.3	357.5	12.77	28.999		
3,500.0	3,482.4	3,477.4	3,472.5	8.3	6.7	151.60	148.6	105.3	383.3	370.2	13.16	29.130		
3,600.0	3,581.7	3,576.6	3,571.5	8.5	6.9	151.66	153.7	108.1	396.4	382.8	13.55	29.254		
3,700.0	3,681.0	3,675.7	3,670.5	8.8	7.1	151.71	158.8	110.9	409.4	395.5	13.94	29.370		
3,800.0	3,780.4	3,774.8	3,769.4	9.1	7.3	151.76	163.9	113.7	422.5	408.1	14.33	29.481		
3,900.0	3,879.7	3,874.0	3,868.4	9.3	7.5	151.81	168.9	116.5	435.5	420.8	14.72	29.585		
4,000.0	3,979.0	3,973.1	3,967.4	9.6	7.7	151.86	174.0	119.3	448.6	433.5	15.11	29.684		
4,100.0	4,078.3	4,072.3	4,066.4	9.9	7.9	151.90	179.1	122.1	461.6	446.1	15.50	29.778		
4,200.0	4,177.6	4,171.4	4,165.3	10.1	8.1	151.94	184.2	125.0	474.7	458.8	15.89	29.867		
4,300.0	4,277.0	4,270.6	4,264.3	10.4	8.3	151.98	189.2	127.8	487.7	471.4	16.28	29.952		
4,400.0	4,376.3	4,369.7	4,363.3	10.7	8.5	152.01	194.3	130.6	500.8	484.1	16.67	30.033		
4,500.0	4,475.6	4,468.9	4,462.3	10.9	8.7	152.05	199.4	133.4	513.8	496.7	17.06	30.110		
4,600.0	4,574.9	4,568.0	4,561.2	11.2	8.9	152.08	204.5	136.2	526.9	509.4	17.46	30.184		
4,700.0	4,674.3	4,667.1	4,660.2	11.5	9.1	152.11	209.6	139.0	539.9	522.1	17.85	30.254		
4,800.0	4,773.6	4,766.3	4,759.2	11.7	9.3	152.14	214.6	141.8	553.0	534.7	18.24	30.322		
4,900.0	4,872.9	4,865.4	4,858.2	12.0	9.5	152.17	219.7	144.7	566.0	547.4	18.63	30.386		
5,000.0	4,972.2	4,964.6	4,957.1	12.3	9.7	152.19	224.8	147.5	579.1	560.1	19.02	30.448		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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: 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	5,071.6	5,063.7	5,056.1	12.5	9.9	152.22	229.9	150.3	592.1	572.7	19.41	30.508		
5,200.0	5,170.9	5,162.9	5,155.1	12.8	10.1	152.24	234.9	153.1	605.2	585.4	19.80	30.565		
5,300.0	5,270.2	5,262.0	5,254.1	13.1	10.3	152.27	240.0	155.9	618.2	598.0	20.19	30.620		
5,400.0	5,369.5	5,361.2	5,353.0	13.3	10.5	152.31	245.1	158.7	631.2	610.6	20.59	30.662		
5,500.0	5,469.0	5,460.5	5,452.2	13.6	10.7	152.32	250.2	161.6	642.9	621.9	20.98	30.642		
5,600.0	5,568.7	5,559.9	5,551.5	13.8	10.9	152.26	255.3	164.4	653.1	631.8	21.37	30.558		
5,700.0	5,668.5	5,659.5	5,650.9	14.0	11.1	152.12	260.4	167.2	661.8	640.1	21.76	30.414		
5,800.0	5,768.3	5,764.4	5,755.6	14.2	11.3	151.95	265.1	169.8	668.6	646.5	22.14	30.201		
5,900.0	5,868.3	5,870.2	5,861.4	14.3	11.5	151.84	268.2	171.5	673.1	650.6	22.50	29.919		
6,000.0	5,968.3	5,976.3	5,967.4	14.4	11.7	151.80	269.6	172.3	675.0	652.2	22.83	29.571		
6,100.0	6,068.3	6,078.1	6,069.3	14.6	11.9	90.03	269.7	172.4	675.2	652.0	23.15	29.167		
6,200.0	6,168.3	6,178.1	6,169.3	14.7	12.0	90.03	269.7	172.4	675.2	651.7	23.47	28.770		
6,300.0	6,268.3	6,278.1	6,269.3	14.8	12.2	90.03	269.7	172.4	675.2	651.4	23.79	28.383		
6,400.0	6,368.3	6,378.1	6,369.3	15.0	12.3	90.03	269.7	172.4	675.2	651.1	24.11	28.005		
6,500.0	6,468.3	6,478.1	6,469.3	15.1	12.5	90.03	269.7	172.4	675.2	650.7	24.43	27.636		
6,600.0	6,568.3	6,578.1	6,569.3	15.2	12.6	90.03	269.7	172.4	675.2	650.4	24.75	27.276		
6,700.0	6,668.1	6,678.1	6,669.1	15.3	12.8	-89.97	266.0	172.4	675.2	650.2	24.99	27.014		
6,800.0	6,766.0	6,778.0	6,766.9	15.3	12.8	-89.97	246.0	172.4	675.2	650.1	25.02	26.980		
6,900.0	6,858.9	6,878.0	6,859.8	15.3	12.7	-89.97	209.4	172.4	675.2	650.2	24.92	27.089		
7,000.0	6,944.0	6,977.9	6,944.9	15.2	12.7	-89.98	157.3	172.4	675.2	650.4	24.80	27.229		
7,100.0	7,018.8	7,077.9	7,019.6	15.2	12.6	-89.98	91.1	172.4	675.2	650.4	24.77	27.254		
7,200.0	7,080.9	7,177.8	7,081.8	15.3	12.7	-89.98	13.0	172.4	675.2	650.2	24.99	27.016		
7,300.0	7,128.6	7,277.8	7,129.4	15.5	13.0	-89.99	-74.8	172.4	675.2	649.6	25.56	26.410		
7,400.0	7,160.2	7,377.8	7,161.1	15.9	13.5	-89.99	-169.4	172.4	675.2	648.6	26.56	25.423		
7,500.0	7,174.9	7,477.8	7,175.9	16.5	14.2	-90.00	-268.2	172.4	675.2	647.2	27.96	24.143		
7,600.0	7,176.0	7,577.8	7,177.0	17.3	15.1	-90.00	-368.2	172.4	675.2	645.4	29.73	22.707		
7,700.0	7,176.0	7,677.8	7,177.0	18.2	16.1	-90.00	-468.2	172.4	675.2	643.4	31.79	21.240		
7,800.0	7,176.0	7,777.8	7,177.0	19.2	17.2	-90.00	-568.2	172.4	675.2	641.1	34.08	19.813		
7,900.0	7,176.0	7,877.8	7,177.0	20.3	18.5	-90.00	-668.2	172.4	675.2	638.6	36.56	18.466		
8,000.0	7,176.0	7,977.8	7,177.0	21.5	19.8	-90.00	-768.2	172.4	675.2	636.0	39.20	17.222		
8,100.0	7,176.0	8,077.8	7,177.0	22.8	21.1	-90.00	-868.2	172.4	675.2	633.2	41.97	16.086		
8,200.0	7,176.0	8,177.8	7,177.0	24.1	22.6	-90.00	-968.2	172.4	675.2	630.3	44.84	15.056		
8,300.0	7,176.0	8,277.8	7,177.0	25.5	24.0	-90.00	-1,068.2	172.4	675.2	627.4	47.80	14.125		
8,400.0	7,176.0	8,377.8	7,177.0	26.9	25.5	-90.00	-1,168.2	172.4	675.1	624.3	50.83	13.283		
8,500.0	7,176.0	8,477.8	7,177.0	28.4	27.1	-90.00	-1,268.2	172.4	675.1	621.2	53.91	12.523		
8,600.0	7,176.0	8,577.8	7,177.0	29.9	28.6	-90.00	-1,368.2	172.4	675.1	618.1	57.05	11.835		
8,700.0	7,176.0	8,677.8	7,177.0	31.4	30.2	-90.00	-1,468.2	172.4	675.1	614.9	60.22	11.211		
8,800.0	7,176.0	8,777.8	7,177.0	32.9	31.8	-90.00	-1,568.2	172.4	675.1	611.7	63.43	10.643		
8,900.0	7,176.0	8,877.8	7,177.0	34.5	33.4	-90.00	-1,668.2	172.4	675.1	608.5	66.67	10.126		
9,000.0	7,176.0	8,977.8	7,177.0	36.1	35.1	-90.00	-1,768.2	172.4	675.1	605.2	69.94	9.653		
9,100.0	7,176.0	9,077.8	7,177.0	37.7	36.7	-90.00	-1,868.2	172.4	675.1	601.9	73.23	9.220		
9,200.0	7,176.0	9,177.8	7,177.0	39.3	38.4	-90.00	-1,968.2	172.4	675.1	598.6	76.54	8.821		
9,300.0	7,176.0	9,277.8	7,177.0	40.9	40.0	-90.00	-2,068.2	172.4	675.1	595.3	79.86	8.454		
9,400.0	7,176.0	9,377.8	7,177.0	42.5	41.7	-90.00	-2,168.2	172.4	675.1	591.9	83.20	8.114		
9,500.0	7,176.0	9,477.8	7,177.0	44.2	43.4	-90.00	-2,268.2	172.4	675.1	588.6	86.56	7.800		
9,600.0	7,176.0	9,577.8	7,177.0	45.8	45.0	-90.00	-2,368.2	172.4	675.1	585.2	89.92	7.508		
9,700.0	7,176.0	9,677.8	7,177.0	47.5	46.7	-90.00	-2,468.2	172.4	675.1	581.8	93.30	7.236		
9,800.0	7,176.0	9,777.8	7,177.0	49.1	48.4	-90.00	-2,568.2	172.4	675.1	578.5	96.69	6.983		
9,900.0	7,176.0	9,877.8	7,177.0	50.8	50.1	-90.00	-2,668.2	172.4	675.1	575.1	100.08	6.746		
10,000.0	7,176.0	9,977.8	7,177.0	52.5	51.8	-90.00	-2,768.2	172.4	675.1	571.7	103.48	6.524		
10,100.0	7,176.0	10,077.8	7,177.0	54.2	53.5	-90.00	-2,868.2	172.4	675.1	568.3	106.89	6.316		
10,200.0	7,176.0	10,177.8	7,177.0	55.9	55.2	-90.00	-2,968.2	172.4	675.1	564.8	110.30	6.121		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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		
10,300.0	7,176.0	10,277.8	7,177.0	57.5	56.9	-90.00	-3,068.2	172.4	675.1	561.4	113.72	5.937		
10,400.0	7,176.0	10,377.8	7,177.0	59.2	58.6	-90.00	-3,168.2	172.4	675.1	558.0	117.15	5.763		
10,500.0	7,176.0	10,477.8	7,177.0	60.9	60.3	-90.00	-3,268.2	172.4	675.1	554.6	120.58	5.599		
10,600.0	7,176.0	10,577.8	7,177.0	62.6	62.1	-90.00	-3,368.2	172.4	675.1	551.1	124.01	5.444		
10,700.0	7,176.0	10,677.8	7,177.0	64.3	63.8	-90.00	-3,468.2	172.4	675.1	547.7	127.45	5.297		
10,800.0	7,176.0	10,777.8	7,177.0	66.0	65.5	-90.00	-3,568.2	172.4	675.1	544.2	130.90	5.158		
10,900.0	7,176.0	10,877.8	7,177.0	67.8	67.2	-90.00	-3,668.2	172.4	675.1	540.8	134.34	5.026		
11,000.0	7,176.0	10,977.8	7,177.0	69.5	68.9	-90.00	-3,768.2	172.4	675.1	537.3	137.79	4.900		
11,100.0	7,176.0	11,077.8	7,177.0	71.2	70.7	-90.00	-3,868.2	172.4	675.1	533.9	141.24	4.780		
11,200.0	7,176.0	11,177.8	7,177.0	72.9	72.4	-90.00	-3,968.2	172.4	675.1	530.4	144.70	4.666		
11,300.0	7,176.0	11,277.8	7,177.0	74.6	74.1	-90.00	-4,068.2	172.4	675.1	527.0	148.15	4.557		
11,400.0	7,176.0	11,377.8	7,177.0	76.3	75.8	-90.00	-4,168.2	172.4	675.1	523.5	151.61	4.453		
11,500.0	7,176.0	11,477.8	7,177.0	78.0	77.6	-90.00	-4,268.2	172.4	675.1	520.1	155.07	4.354		
11,600.0	7,176.0	11,577.8	7,177.0	79.8	79.3	-90.00	-4,368.2	172.4	675.1	516.6	158.54	4.258		
11,700.0	7,176.0	11,677.8	7,177.0	81.5	81.0	-90.00	-4,468.2	172.3	675.1	513.1	162.00	4.167		
11,783.1	7,176.0	11,760.8	7,177.0	82.9	82.5	-90.00	-4,551.2	172.3	675.1	510.2	164.88	4.095 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.67	-0.4	30.2	30.2					
100.0	100.0	101.0	101.0	0.1	0.1	90.67	-0.4	30.2	30.2	30.0	0.25	122.774		
200.0	200.0	201.0	201.0	0.3	0.3	90.67	-0.4	30.2	30.2	29.6	0.60	50.766		
300.0	300.0	301.0	301.0	0.5	0.5	90.67	-0.4	30.2	30.2	29.3	0.94	31.998		
332.1	332.1	333.1	333.1	0.5	0.5	90.67	-0.4	30.2	30.2	29.2	1.06	28.605 CC		
400.0	400.0	400.8	400.8	0.6	0.6	90.41	-0.2	30.4	30.4	29.1	1.29	23.508 ES		
500.0	500.0	500.3	500.3	0.8	0.8	150.48	0.8	31.8	32.0	30.4	1.64	19.496		
600.0	600.0	599.7	599.7	1.0	1.0	148.66	2.9	34.6	36.4	34.4	1.99	18.276		
700.0	699.9	698.9	698.7	1.2	1.2	147.26	5.9	38.8	43.8	41.4	2.34	18.666		
800.0	799.8	797.6	797.2	1.4	1.4	146.32	10.0	44.3	54.1	51.4	2.70	20.015		
900.0	899.5	896.2	895.4	1.6	1.6	145.81	15.0	51.1	67.1	64.1	3.06	21.925		
1,000.0	999.2	995.1	993.9	1.8	1.8	146.02	20.2	58.1	81.9	78.5	3.43	23.883		
1,100.0	1,098.6	1,093.8	1,092.2	2.0	2.0	146.70	25.3	65.1	98.2	94.3	3.80	25.803		
1,200.0	1,197.9	1,192.3	1,190.3	2.2	2.3	147.55	30.5	72.1	115.3	111.2	4.18	27.572		
1,300.0	1,297.3	1,290.8	1,288.5	2.5	2.5	148.20	35.6	79.1	132.6	128.0	4.56	29.038		
1,400.0	1,396.6	1,389.3	1,386.6	2.7	2.7	148.70	40.8	86.1	149.8	144.8	4.95	30.270		
1,500.0	1,495.9	1,487.8	1,484.7	3.0	2.9	149.10	45.9	93.1	167.0	161.7	5.33	31.320		
1,600.0	1,595.2	1,586.3	1,582.8	3.3	3.1	149.42	51.1	100.1	184.3	178.6	5.72	32.224		
1,700.0	1,694.6	1,684.8	1,680.9	3.5	3.4	149.68	56.2	107.1	201.5	195.4	6.11	33.011		
1,800.0	1,793.9	1,783.3	1,779.0	3.8	3.6	149.91	61.4	114.1	218.8	212.3	6.49	33.701		
1,900.0	1,893.2	1,881.8	1,877.1	4.0	3.8	150.10	66.5	121.1	236.1	229.2	6.88	34.312		
2,000.0	1,992.5	1,980.3	1,975.2	4.3	4.1	150.26	71.7	128.1	253.3	246.1	7.27	34.856		
2,100.0	2,091.8	2,078.8	2,073.4	4.6	4.3	150.41	76.8	135.1	270.6	262.9	7.66	35.343		
2,200.0	2,191.2	2,177.3	2,171.5	4.8	4.5	150.54	82.0	142.1	287.8	279.8	8.04	35.782		
2,300.0	2,290.5	2,275.8	2,269.6	5.1	4.7	150.65	87.1	149.1	305.1	296.7	8.43	36.179		
2,400.0	2,389.8	2,374.3	2,367.7	5.3	5.0	150.75	92.3	156.1	322.4	313.6	8.82	36.541		
2,500.0	2,489.1	2,472.8	2,465.8	5.6	5.2	150.84	97.4	163.1	339.7	330.4	9.21	36.871		
2,600.0	2,588.5	2,571.3	2,563.9	5.9	5.4	150.92	102.6	170.1	356.9	347.3	9.60	37.174		
2,700.0	2,687.8	2,669.8	2,662.0	6.1	5.6	151.00	107.7	177.1	374.2	364.2	9.99	37.453		
2,800.0	2,787.1	2,768.3	2,760.1	6.4	5.9	151.06	112.9	184.2	391.5	381.1	10.38	37.710		
2,900.0	2,886.4	2,866.8	2,858.2	6.7	6.1	151.13	118.0	191.2	408.7	398.0	10.77	37.949		
3,000.0	2,985.8	2,965.2	2,956.4	6.9	6.3	151.18	123.2	198.2	426.0	414.8	11.16	38.170		
3,100.0	3,085.1	3,063.7	3,054.5	7.2	6.6	151.23	128.3	205.2	443.3	431.7	11.55	38.376		
3,200.0	3,184.4	3,162.2	3,152.6	7.5	6.8	151.28	133.5	212.2	460.6	448.6	11.94	38.569		
3,300.0	3,283.7	3,260.7	3,250.7	7.7	7.0	151.33	138.6	219.2	477.8	465.5	12.33	38.749		
3,400.0	3,383.1	3,359.2	3,348.8	8.0	7.2	151.37	143.8	226.2	495.1	482.4	12.72	38.918		
3,500.0	3,482.4	3,457.7	3,446.9	8.3	7.5	151.41	148.9	233.2	512.4	499.3	13.11	39.076		
3,600.0	3,581.7	3,556.2	3,545.0	8.5	7.7	151.45	154.1	240.2	529.6	516.1	13.50	39.225		
3,700.0	3,681.0	3,654.7	3,643.1	8.8	7.9	151.48	159.2	247.2	546.9	533.0	13.89	39.366		
3,800.0	3,780.4	3,753.2	3,741.3	9.1	8.2	151.51	164.4	254.2	564.2	549.9	14.28	39.499		
3,900.0	3,879.7	3,851.7	3,839.4	9.3	8.4	151.54	169.5	261.2	581.5	566.8	14.67	39.625		
4,000.0	3,979.0	3,950.2	3,937.5	9.6	8.6	151.57	174.7	268.2	598.7	583.7	15.07	39.744		
4,100.0	4,078.3	4,048.7	4,035.6	9.9	8.8	151.60	179.8	275.2	616.0	600.6	15.46	39.857		
4,200.0	4,177.6	4,147.2	4,133.7	10.1	9.1	151.62	185.0	282.2	633.3	617.4	15.85	39.964		
4,300.0	4,277.0	4,245.7	4,231.8	10.4	9.3	151.65	190.1	289.2	650.6	634.3	16.24	40.066		
4,400.0	4,376.3	4,344.2	4,329.9	10.7	9.5	151.67	195.3	296.2	667.8	651.2	16.63	40.163		
4,500.0	4,475.6	4,442.7	4,428.0	10.9	9.8	151.69	200.4	303.2	685.1	668.1	17.02	40.256		
4,600.0	4,574.9	4,541.2	4,526.2	11.2	10.0	151.71	205.6	310.2	702.4	685.0	17.41	40.344		
4,700.0	4,674.3	4,639.7	4,624.3	11.5	10.2	151.73	210.7	317.2	719.7	701.9	17.80	40.429		
4,800.0	4,773.6	4,738.2	4,722.4	11.7	10.4	151.75	215.9	324.2	736.9	718.8	18.19	40.510		
4,900.0	4,872.9	4,836.7	4,820.5	12.0	10.7	151.77	221.0	331.2	754.2	735.6	18.58	40.587		
5,000.0	4,972.2	4,935.2	4,918.6	12.3	10.9	151.78	226.2	338.2	771.5	752.5	18.97	40.661		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,071.6	5,033.7	5,016.7	12.5	11.1	151.80	231.3	345.2	788.8	769.4	19.36	40.732	
5,200.0	5,170.9	5,132.2	5,114.8	12.8	11.4	151.82	236.5	352.2	806.0	786.3	19.76	40.801	
5,300.0	5,270.2	5,230.7	5,212.9	13.1	11.6	151.83	241.6	359.2	823.3	803.2	20.15	40.866	
5,400.0	5,369.5	5,329.2	5,311.1	13.3	11.8	151.87	246.8	366.2	840.5	820.0	20.54	40.913	
5,500.0	5,469.0	5,427.9	5,409.4	13.6	12.1	151.91	251.9	373.2	856.5	835.5	20.94	40.894	
5,600.0	5,568.7	5,528.7	5,509.8	13.8	12.3	151.89	257.2	380.4	870.9	849.6	21.34	40.813	
5,700.0	5,668.5	5,641.9	5,622.7	14.0	12.5	151.85	262.3	387.3	882.9	861.1	21.74	40.608	
5,800.0	5,768.3	5,755.7	5,736.3	14.2	12.7	151.82	266.1	392.4	891.7	869.6	22.13	40.303	
5,900.0	5,868.3	5,869.9	5,850.4	14.3	12.9	151.80	268.5	395.7	897.4	874.9	22.49	39.901	
6,000.0	5,968.3	5,984.3	5,964.8	14.4	13.1	151.79	269.6	397.2	900.0	877.1	22.84	39.407	
6,100.0	6,068.3	6,088.8	6,069.3	14.6	13.2	90.02	269.6	397.3	900.1	876.9	23.16	38.860	
6,200.0	6,168.3	6,188.8	6,169.3	14.7	13.4	90.02	269.6	397.3	900.1	876.6	23.48	38.331	
6,300.0	6,268.3	6,288.8	6,269.3	14.8	13.5	90.02	269.6	397.3	900.1	876.3	23.80	37.816	
6,400.0	6,368.3	6,388.8	6,369.3	15.0	13.7	90.02	269.6	397.3	900.1	876.0	24.12	37.312	
6,500.0	6,468.3	6,488.8	6,469.3	15.1	13.8	90.02	269.6	397.3	900.1	875.7	24.45	36.821	
6,527.8	6,496.1	6,516.5	6,497.0	15.1	13.8	90.05	269.2	397.3	900.1	875.6	24.52	36.704	
6,600.0	6,568.3	6,587.8	6,567.9	15.2	13.9	90.52	261.9	397.3	900.1	875.5	24.68	36.472	
6,700.0	6,668.1	6,682.6	6,659.7	15.3	13.9	-88.19	238.7	397.3	900.6	875.8	24.77	36.361	
6,800.0	6,766.0	6,774.1	6,743.5	15.3	13.8	-86.89	202.3	397.3	901.5	876.8	24.70	36.495	
6,900.0	6,858.9	6,863.0	6,818.4	15.3	13.8	-85.69	154.6	397.3	902.7	878.2	24.57	36.737	
7,000.0	6,944.0	6,950.0	6,883.7	15.2	13.8	-84.61	97.2	397.3	904.2	879.7	24.48	36.938	
7,100.0	7,018.8	7,034.9	6,938.4	15.2	13.8	-83.68	32.4	397.3	905.7	881.2	24.53	36.927	
7,200.0	7,080.9	7,118.6	6,982.3	15.3	14.0	-82.92	-38.8	397.3	907.1	882.3	24.82	36.550	
7,300.0	7,128.6	7,200.0	7,014.6	15.5	14.3	-82.35	-113.4	397.3	908.2	882.8	25.40	35.759	
7,400.0	7,160.2	7,283.3	7,036.4	15.9	14.7	-81.97	-193.7	397.3	909.0	882.7	26.35	34.503	
7,500.0	7,174.9	7,364.9	7,046.3	16.5	15.2	-81.79	-274.7	397.3	909.4	881.8	27.62	32.929	
7,600.0	7,176.0	7,458.4	7,047.0	17.3	16.0	-81.78	-368.2	397.3	909.4	880.1	29.33	31.010	
7,700.0	7,176.0	7,558.4	7,047.0	18.2	17.0	-81.78	-468.2	397.3	909.4	878.1	31.37	28.993	
7,800.0	7,176.0	7,658.4	7,047.0	19.2	18.0	-81.78	-568.2	397.3	909.4	875.8	33.64	27.031	
7,900.0	7,176.0	7,758.4	7,047.0	20.3	19.2	-81.78	-668.2	397.3	909.4	873.3	36.11	25.184	
8,000.0	7,176.0	7,858.4	7,047.0	21.5	20.5	-81.78	-768.2	397.3	909.4	870.7	38.73	23.479	
8,100.0	7,176.0	7,958.4	7,047.0	22.8	21.8	-81.78	-868.2	397.3	909.4	868.0	41.48	21.924	
8,200.0	7,176.0	8,058.4	7,047.0	24.1	23.2	-81.78	-968.2	397.3	909.4	865.1	44.33	20.515	
8,300.0	7,176.0	8,158.4	7,047.0	25.5	24.6	-81.78	-1,068.2	397.3	909.4	862.2	47.26	19.242	
8,400.0	7,176.0	8,258.4	7,047.0	26.9	26.1	-81.78	-1,168.2	397.3	909.4	859.2	50.27	18.093	
8,500.0	7,176.0	8,358.4	7,047.0	28.4	27.6	-81.78	-1,268.2	397.3	909.4	856.1	53.32	17.055	
8,600.0	7,176.0	8,458.4	7,047.0	29.9	29.1	-81.78	-1,368.2	397.3	909.4	853.0	56.43	16.116	
8,700.0	7,176.0	8,558.4	7,047.0	31.4	30.7	-81.78	-1,468.2	397.3	909.4	849.9	59.58	15.265	
8,800.0	7,176.0	8,658.4	7,047.0	32.9	32.3	-81.78	-1,568.2	397.3	909.4	846.7	62.76	14.491	
8,900.0	7,176.0	8,758.4	7,047.0	34.5	33.8	-81.78	-1,668.2	397.3	909.4	843.5	65.97	13.785	
9,000.0	7,176.0	8,858.4	7,047.0	36.1	35.5	-81.78	-1,768.2	397.3	909.4	840.2	69.21	13.141	
9,100.0	7,176.0	8,958.4	7,047.0	37.7	37.1	-81.78	-1,868.2	397.3	909.4	837.0	72.47	12.550	
9,200.0	7,176.0	9,058.4	7,047.0	39.3	38.7	-81.78	-1,968.2	397.3	909.4	833.7	75.74	12.007	
9,300.0	7,176.0	9,158.4	7,047.0	40.9	40.4	-81.78	-2,068.2	397.3	909.4	830.4	79.04	11.506	
9,400.0	7,176.0	9,258.4	7,047.0	42.5	42.0	-81.78	-2,168.2	397.3	909.4	827.1	82.35	11.044	
9,500.0	7,176.0	9,358.4	7,047.0	44.2	43.7	-81.78	-2,268.2	397.3	909.4	823.8	85.67	10.616	
9,600.0	7,176.0	9,458.4	7,047.0	45.8	45.3	-81.78	-2,368.2	397.3	909.4	820.4	89.00	10.218	
9,700.0	7,176.0	9,558.4	7,047.0	47.5	47.0	-81.78	-2,468.2	397.3	909.4	817.1	92.34	9.848	
9,800.0	7,176.0	9,658.4	7,047.0	49.1	48.7	-81.78	-2,568.2	397.3	909.4	813.7	95.70	9.503	
9,900.0	7,176.0	9,758.4	7,047.0	50.8	50.4	-81.78	-2,668.2	397.3	909.4	810.4	99.06	9.181	
10,000.0	7,176.0	9,858.4	7,047.0	52.5	52.1	-81.78	-2,768.2	397.3	909.4	807.0	102.43	8.879	
10,100.0	7,176.0	9,958.4	7,047.0	54.2	53.8	-81.78	-2,868.2	397.3	909.4	803.6	105.80	8.596	

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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							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	7,176.0	10,058.4	7,047.0	55.9	55.5	-81.78	-2,968.2	397.3	909.4	800.2	109.18	8.329		
10,300.0	7,176.0	10,158.4	7,047.0	57.5	57.2	-81.78	-3,068.2	397.3	909.4	796.9	112.57	8.079		
10,400.0	7,176.0	10,258.4	7,047.0	59.2	58.9	-81.78	-3,168.2	397.3	909.4	793.5	115.96	7.843		
10,500.0	7,176.0	10,358.4	7,047.0	60.9	60.6	-81.78	-3,268.2	397.3	909.4	790.1	119.36	7.619		
10,600.0	7,176.0	10,458.4	7,047.0	62.6	62.3	-81.78	-3,368.2	397.3	909.4	786.7	122.76	7.408		
10,700.0	7,176.0	10,558.4	7,047.0	64.3	64.0	-81.78	-3,468.2	397.3	909.4	783.3	126.16	7.208		
10,800.0	7,176.0	10,658.4	7,047.0	66.0	65.7	-81.78	-3,568.2	397.3	909.4	779.9	129.57	7.019		
10,900.0	7,176.0	10,758.4	7,047.0	67.8	67.4	-81.78	-3,668.2	397.3	909.4	776.4	132.98	6.839		
11,000.0	7,176.0	10,858.4	7,047.0	69.5	69.1	-81.78	-3,768.2	397.3	909.4	773.0	136.40	6.667		
11,100.0	7,176.0	10,958.4	7,047.0	71.2	70.9	-81.78	-3,868.2	397.3	909.4	769.6	139.81	6.505		
11,200.0	7,176.0	11,058.4	7,047.0	72.9	72.6	-81.78	-3,968.2	397.3	909.4	766.2	143.23	6.349		
11,300.0	7,176.0	11,158.4	7,047.0	74.6	74.3	-81.78	-4,068.2	397.3	909.4	762.8	146.66	6.201		
11,400.0	7,176.0	11,258.4	7,047.0	76.3	76.0	-81.78	-4,168.2	397.3	909.4	759.3	150.08	6.060		
11,500.0	7,176.0	11,358.4	7,047.0	78.0	77.7	-81.78	-4,268.2	397.3	909.4	755.9	153.51	5.924		
11,600.0	7,176.0	11,458.4	7,047.0	79.8	79.5	-81.78	-4,368.2	397.3	909.4	752.5	156.94	5.795		
11,700.0	7,176.0	11,558.4	7,047.0	81.5	81.2	-81.78	-4,468.2	397.3	909.4	749.1	160.37	5.671		
11,783.1	7,176.0	11,641.5	7,047.0	82.9	82.6	-81.78	-4,551.2	397.3	909.4	746.2	163.22	5.572 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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)				
0.0	0.0	1.0	1.0	0.0	0.0	90.56	-0.4	37.5	37.5					
100.0	100.0	101.0	101.0	0.1	0.1	90.56	-0.4	37.5	37.5	37.2	0.25	152.328		
200.0	200.0	201.0	201.0	0.3	0.3	90.56	-0.4	37.5	37.5	36.9	0.60	62.986		
266.3	266.3	267.3	267.3	0.4	0.4	90.56	-0.4	37.5	37.5	36.7	0.83	45.345	CC	
300.0	300.0	301.0	301.0	0.5	0.5	90.56	-0.4	37.5	37.5	36.5	0.94	39.701	ES	
400.0	400.0	400.4	400.4	0.6	0.6	89.99	0.0	38.3	38.3	37.0	1.29	29.613		
500.0	500.0	500.0	500.0	0.8	0.8	150.36	1.1	40.7	40.9	39.2	1.64	24.901		
600.0	600.0	598.9	598.7	1.0	1.0	149.28	2.9	44.6	46.4	44.4	1.99	23.309	SF	
700.0	699.9	697.7	697.4	1.2	1.2	148.69	5.4	50.0	55.0	52.7	2.34	23.500		
800.0	799.8	796.0	795.4	1.4	1.4	148.49	8.6	57.0	66.7	64.0	2.69	24.761		
900.0	899.5	893.8	892.7	1.6	1.6	148.51	12.5	65.4	81.4	78.4	3.05	26.699		
1,000.0	999.2	990.8	989.1	1.8	1.9	148.66	17.1	75.2	99.2	95.8	3.41	29.081		
1,100.0	1,098.6	1,087.8	1,085.3	2.0	2.1	148.89	22.2	86.4	119.8	116.0	3.78	31.704		
1,200.0	1,197.9	1,185.4	1,182.1	2.2	2.4	149.32	27.5	97.8	141.5	137.4	4.15	34.075		
1,300.0	1,297.3	1,283.0	1,278.9	2.5	2.6	149.65	32.8	109.2	163.3	158.8	4.53	36.034		
1,400.0	1,396.6	1,380.6	1,375.7	2.7	2.9	149.91	38.0	120.6	185.1	180.2	4.91	37.676		
1,500.0	1,495.9	1,478.2	1,472.5	3.0	3.2	150.11	43.3	132.1	206.9	201.6	5.29	39.072		
1,600.0	1,595.2	1,575.8	1,569.3	3.3	3.5	150.27	48.6	143.5	228.7	223.0	5.68	40.271		
1,700.0	1,694.6	1,673.4	1,666.0	3.5	3.7	150.41	53.8	154.9	250.4	244.4	6.06	41.313		
1,800.0	1,793.9	1,771.0	1,762.8	3.8	4.0	150.52	59.1	166.3	272.2	265.8	6.45	42.225		
1,900.0	1,893.2	1,868.6	1,859.6	4.0	4.3	150.62	64.4	177.7	294.0	287.2	6.83	43.030		
2,000.0	1,992.5	1,966.2	1,956.4	4.3	4.5	150.70	69.6	189.1	315.8	308.6	7.22	43.746		
2,100.0	2,091.8	2,063.8	2,053.2	4.6	4.8	150.77	74.9	200.5	337.6	330.0	7.61	44.387		
2,200.0	2,191.2	2,161.4	2,150.0	4.8	5.1	150.84	80.2	211.9	359.4	351.4	7.99	44.963		
2,300.0	2,290.5	2,258.9	2,246.7	5.1	5.4	150.89	85.5	223.4	381.2	372.8	8.38	45.485		
2,400.0	2,389.8	2,356.5	2,343.5	5.3	5.6	150.94	90.7	234.8	403.0	394.2	8.77	45.958		
2,500.0	2,489.1	2,454.1	2,440.3	5.6	5.9	150.99	96.0	246.2	424.8	415.6	9.16	46.391		
2,600.0	2,588.5	2,551.7	2,537.1	5.9	6.2	151.03	101.3	257.6	446.5	437.0	9.54	46.787		
2,700.0	2,687.8	2,649.3	2,633.9	6.1	6.5	151.07	106.5	269.0	468.3	458.4	9.93	47.151		
2,800.0	2,787.1	2,746.9	2,730.7	6.4	6.8	151.10	111.8	280.4	490.1	479.8	10.32	47.487		
2,900.0	2,886.4	2,844.5	2,827.4	6.7	7.0	151.13	117.1	291.8	511.9	501.2	10.71	47.798		
3,000.0	2,985.8	2,942.1	2,924.2	6.9	7.3	151.16	122.3	303.3	533.7	522.6	11.10	48.086		
3,100.0	3,085.1	3,039.7	3,021.0	7.2	7.6	151.19	127.6	314.7	555.5	544.0	11.49	48.355		
3,200.0	3,184.4	3,137.3	3,117.8	7.5	7.9	151.21	132.9	326.1	577.3	565.4	11.88	48.605		
3,300.0	3,283.7	3,234.9	3,214.6	7.7	8.1	151.23	138.2	337.5	599.1	586.8	12.27	48.839		
3,400.0	3,383.1	3,332.5	3,311.4	8.0	8.4	151.25	143.4	348.9	620.9	608.2	12.66	49.058		
3,500.0	3,482.4	3,430.1	3,408.1	8.3	8.7	151.27	148.7	360.3	642.7	629.6	13.05	49.264		
3,600.0	3,581.7	3,527.7	3,504.9	8.5	9.0	151.29	154.0	371.7	664.4	651.0	13.43	49.458		
3,700.0	3,681.0	3,625.3	3,601.7	8.8	9.3	151.31	159.2	383.2	686.2	672.4	13.82	49.640		
3,800.0	3,780.4	3,722.9	3,698.5	9.1	9.5	151.32	164.5	394.6	708.0	693.8	14.21	49.813		
3,900.0	3,879.7	3,820.5	3,795.3	9.3	9.8	151.34	169.8	406.0	729.8	715.2	14.60	49.975		
4,000.0	3,979.0	3,918.1	3,892.1	9.6	10.1	151.35	175.0	417.4	751.6	736.6	14.99	50.130		
4,100.0	4,078.3	4,015.7	3,988.8	9.9	10.4	151.37	180.3	428.8	773.4	758.0	15.38	50.276		
4,200.0	4,177.6	4,113.3	4,085.6	10.1	10.6	151.38	185.6	440.2	795.2	779.4	15.77	50.415		
4,300.0	4,277.0	4,210.9	4,182.4	10.4	10.9	151.39	190.8	451.6	817.0	800.8	16.16	50.547		
4,400.0	4,376.3	4,308.5	4,279.2	10.7	11.2	151.40	196.1	463.1	838.8	822.2	16.55	50.672		
4,500.0	4,475.6	4,406.1	4,376.0	10.9	11.5	151.41	201.4	474.5	860.6	843.6	16.94	50.792		
4,600.0	4,574.9	4,503.7	4,472.8	11.2	11.8	151.42	206.7	485.9	882.4	865.0	17.33	50.906		
4,700.0	4,674.3	4,601.3	4,569.5	11.5	12.0	151.43	211.9	497.3	904.1	886.4	17.72	51.016		
4,800.0	4,773.6	4,698.9	4,666.3	11.7	12.3	151.44	217.2	508.7	925.9	907.8	18.11	51.120		
4,900.0	4,872.9	4,796.5	4,763.1	12.0	12.6	151.45	222.5	520.1	947.7	929.2	18.50	51.220		
5,000.0	4,972.2	4,894.1	4,859.9	12.3	12.9	151.46	227.7	531.5	969.5	950.6	18.89	51.315		

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 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,071.6	4,991.7	4,956.7	12.5	13.1	151.47	233.0	542.9	991.3	972.0	19.28	51.407	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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)				
0.0	0.0	1.0	1.0	0.0	0.0	90.88	-0.7	45.0	45.0					
100.0	100.0	101.0	101.0	0.1	0.1	90.88	-0.7	45.0	45.0	44.8	0.25	183.033		
200.0	200.0	201.0	201.0	0.3	0.3	90.88	-0.7	45.0	45.0	44.4	0.60	75.682		
232.0	232.0	233.0	233.0	0.4	0.4	90.88	-0.7	45.0	45.0	44.3	0.71	63.725 CC		
300.0	300.0	300.6	300.6	0.5	0.5	90.78	-0.6	45.2	45.3	44.3	0.94	47.959 ES		
400.0	400.0	400.0	400.0	0.6	0.6	90.08	-0.1	46.9	46.9	45.6	1.29	36.261		
500.0	500.0	499.0	498.9	0.8	0.8	150.69	1.0	50.2	50.4	48.8	1.64	30.742		
600.0	600.0	597.9	597.7	1.0	1.0	149.95	2.7	55.0	56.9	54.9	1.99	28.619		
700.0	699.9	696.4	696.0	1.2	1.2	149.68	4.9	61.5	66.5	64.2	2.34	28.468 SF		
800.0	799.8	794.4	793.6	1.4	1.4	149.75	7.6	69.5	79.3	76.6	2.69	29.503		
900.0	899.5	891.7	890.4	1.6	1.7	149.99	10.8	79.1	95.2	92.2	3.04	31.296		
1,000.0	999.2	988.2	986.2	1.8	1.9	150.31	14.5	90.0	114.2	110.8	3.40	33.592		
1,100.0	1,098.6	1,083.8	1,080.8	2.0	2.2	150.65	18.6	102.4	136.2	132.4	3.76	36.227		
1,200.0	1,197.9	1,178.4	1,174.3	2.2	2.5	150.97	23.2	116.2	160.7	156.6	4.13	38.949		
1,300.0	1,297.3	1,272.5	1,267.1	2.5	2.8	151.07	28.3	131.3	186.8	182.3	4.50	41.538		
1,400.0	1,396.6	1,368.8	1,361.9	2.7	3.1	151.09	33.7	147.3	213.5	208.6	4.87	43.801		
1,500.0	1,495.9	1,465.2	1,456.8	3.0	3.4	151.11	39.2	163.4	240.1	234.9	5.25	45.724		
1,600.0	1,595.2	1,561.6	1,551.7	3.3	3.8	151.12	44.6	179.5	266.8	261.2	5.63	47.377		
1,700.0	1,694.6	1,658.0	1,646.5	3.5	4.1	151.13	50.0	195.6	293.5	287.5	6.01	48.812		
1,800.0	1,793.9	1,754.3	1,741.4	3.8	4.4	151.14	55.4	211.7	320.2	313.8	6.39	50.068		
1,900.0	1,893.2	1,850.7	1,836.3	4.0	4.8	151.15	60.8	227.7	346.9	340.1	6.78	51.176		
2,000.0	1,992.5	1,947.1	1,931.1	4.3	5.1	151.15	66.2	243.8	373.5	366.4	7.16	52.162		
2,100.0	2,091.8	2,043.5	2,026.0	4.6	5.4	151.16	71.6	259.9	400.2	392.7	7.55	53.043		
2,200.0	2,191.2	2,139.8	2,120.9	4.8	5.8	151.16	77.0	276.0	426.9	419.0	7.93	53.835		
2,300.0	2,290.5	2,236.2	2,215.8	5.1	6.1	151.17	82.4	292.0	453.6	445.3	8.31	54.552		
2,400.0	2,389.8	2,332.6	2,310.6	5.3	6.5	151.17	87.9	308.1	480.3	471.6	8.70	55.203		
2,500.0	2,489.1	2,429.0	2,405.5	5.6	6.8	151.18	93.3	324.2	506.9	497.9	9.09	55.797		
2,600.0	2,588.5	2,525.3	2,500.4	5.9	7.1	151.18	98.7	340.3	533.6	524.2	9.47	56.340		
2,700.0	2,687.8	2,621.7	2,595.2	6.1	7.5	151.18	104.1	356.4	560.3	550.4	9.86	56.840		
2,800.0	2,787.1	2,718.1	2,690.1	6.4	7.8	151.18	109.5	372.4	587.0	576.7	10.24	57.301		
2,900.0	2,886.4	2,814.5	2,785.0	6.7	8.2	151.19	114.9	388.5	613.7	603.0	10.63	57.728		
3,000.0	2,985.8	2,910.8	2,879.8	6.9	8.5	151.19	120.3	404.6	640.3	629.3	11.02	58.123		
3,100.0	3,085.1	3,007.2	2,974.7	7.2	8.8	151.19	125.7	420.7	667.0	655.6	11.40	58.491		
3,200.0	3,184.4	3,103.6	3,069.6	7.5	9.2	151.19	131.1	436.7	693.7	681.9	11.79	58.834		
3,300.0	3,283.7	3,200.0	3,164.5	7.7	9.5	151.19	136.6	452.8	720.4	708.2	12.18	59.155		
3,400.0	3,383.1	3,296.3	3,259.3	8.0	9.9	151.19	142.0	468.9	747.1	734.5	12.57	59.455		
3,500.0	3,482.4	3,392.7	3,354.2	8.3	10.2	151.20	147.4	485.0	773.7	760.8	12.95	59.737		
3,600.0	3,581.7	3,489.1	3,449.1	8.5	10.5	151.20	152.8	501.1	800.4	787.1	13.34	60.003		
3,700.0	3,681.0	3,585.5	3,543.9	8.8	10.9	151.20	158.2	517.1	827.1	813.4	13.73	60.253		
3,800.0	3,780.4	3,681.8	3,638.8	9.1	11.2	151.20	163.6	533.2	853.8	839.7	14.11	60.488		
3,900.0	3,879.7	3,778.2	3,733.7	9.3	11.6	151.20	169.0	549.3	880.5	866.0	14.50	60.711		
4,000.0	3,979.0	3,874.6	3,828.6	9.6	11.9	151.20	174.4	565.4	907.1	892.3	14.89	60.922		
4,100.0	4,078.3	3,971.0	3,923.4	9.9	12.3	151.20	179.9	581.4	933.8	918.6	15.28	61.122		
4,200.0	4,177.6	4,067.3	4,018.3	10.1	12.6	151.20	185.3	597.5	960.5	944.8	15.67	61.312		
4,300.0	4,277.0	4,163.7	4,113.2	10.4	12.9	151.20	190.7	613.6	987.2	971.1	16.05	61.493		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Newman 2F-32H-C264
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4984.0ft (Original Well Elev)
Reference Site:	S32-T2N-R64W (Newman)	MD Reference:	WELL @ 4984.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Newman 2F-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 @ 4984.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

