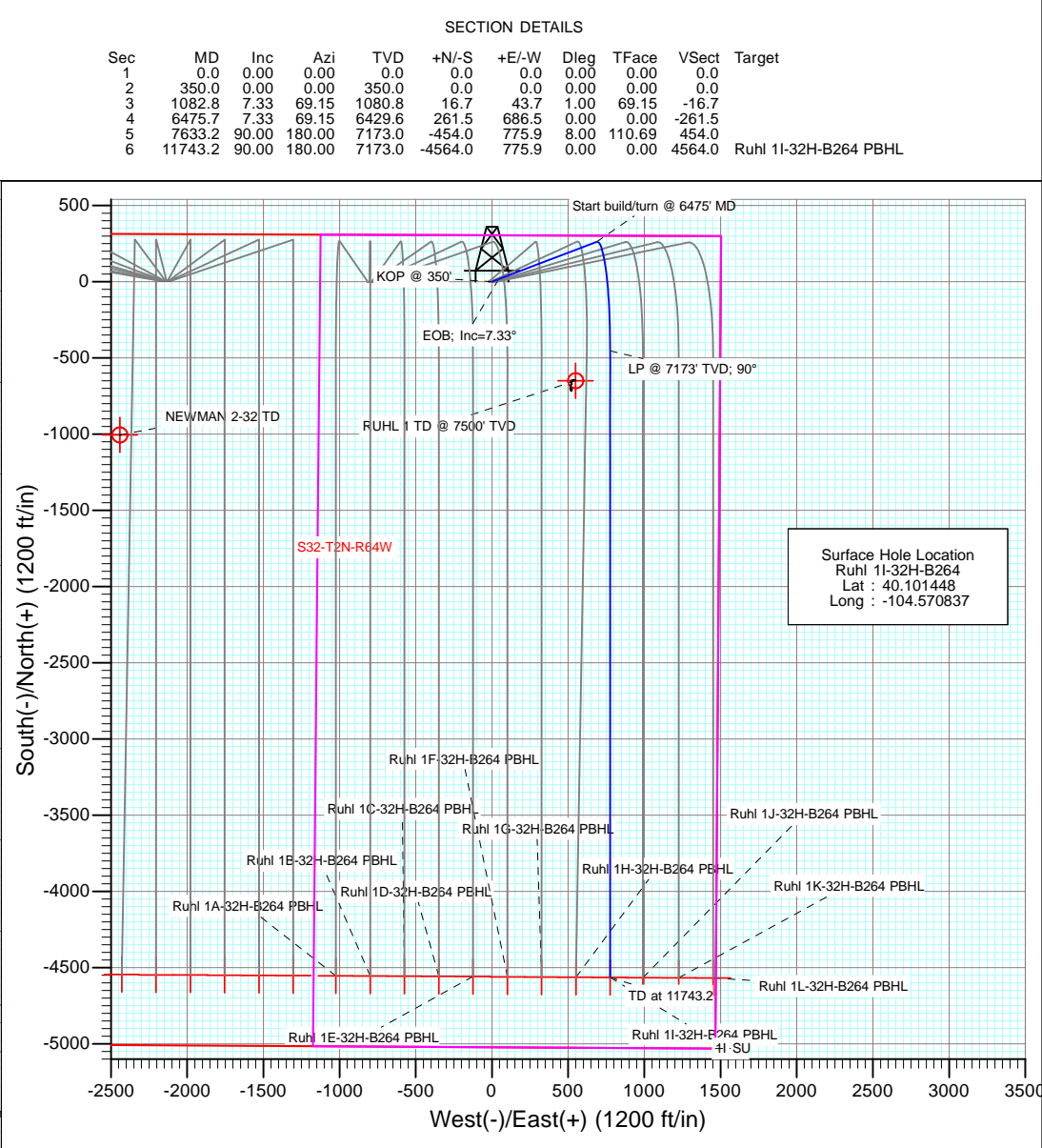
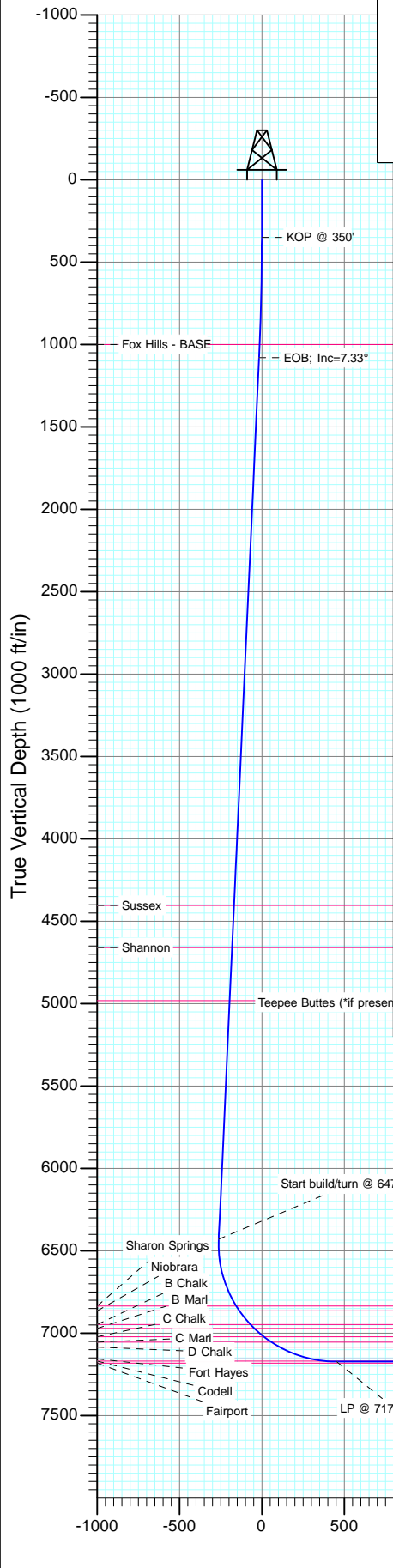




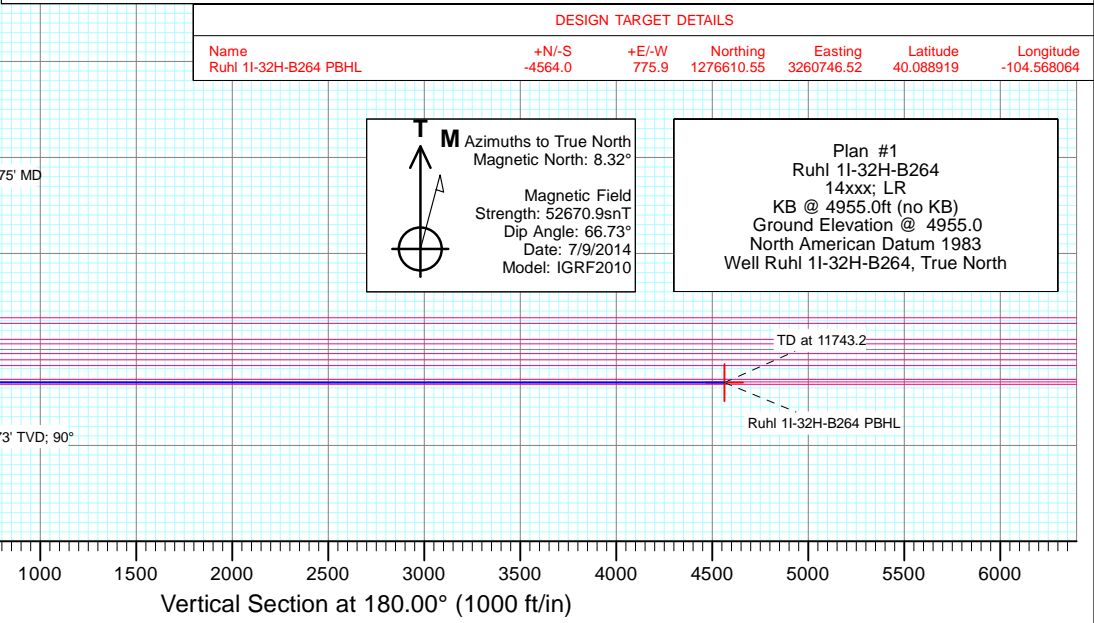
Project: DJ Wattenberg  
Site: S32-T2N-R64W (Newman/Ruhl)  
Well: Ruhl 1I-32H-B264  
Wellbore: Hz  
Design: Plan #1



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ruhl 1I-32H-B264 PBHL	-4564.0	775.9	1276610.55	3260746.52	40.088919	-104.568064

**M** Azimuths to True North  
Magnetic North: 8.32°  
Magnetic Field  
Strength: 52670.9snT  
Dip Angle: 66.73°  
Date: 7/9/2014  
Model: IGRF2010

Plan #1  
Ruhl 1I-32H-B264  
14xxx; LR  
KB @ 4955.0ft (no KB)  
Ground Elevation @ 4955.0  
North American Datum 1983  
Well Ruhl 1I-32H-B264, True North



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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	Ruhl 1I-32H-B264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,166.18 ft	Latitude:	40.101448
	+E/-W	0.0 ft	Easting:	3,259,922.89 ft	Longitude:	-104.570837
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,955.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/9/2014	8.32	66.73	52,671

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	180.00

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,082.8	7.33	69.15	1,080.8	16.7	43.7	1.00	1.00	0.00	69.15	
6,475.7	7.33	69.15	6,429.6	261.5	686.5	0.00	0.00	0.00	0.00	
7,633.2	90.00	180.00	7,173.0	-454.0	775.9	8.00	7.14	9.58	110.69	
11,743.2	90.00	180.00	7,173.0	-4,564.0	775.9	0.00	0.00	0.00	0.00	Ruhl 1I-32H-B264 PB

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350'
400.0	0.50	69.15	400.0	0.1	0.2	-0.1	1.00	1.00	
500.0	1.50	69.15	500.0	0.7	1.8	-0.7	1.00	1.00	
600.0	2.50	69.15	599.9	1.9	5.1	-1.9	1.00	1.00	
700.0	3.50	69.15	699.8	3.8	10.0	-3.8	1.00	1.00	
800.0	4.50	69.15	799.5	6.3	16.5	-6.3	1.00	1.00	
900.0	5.50	69.15	899.2	9.4	24.7	-9.4	1.00	1.00	
1,000.0	6.50	69.15	998.6	13.1	34.4	-13.1	1.00	1.00	
1,001.4	6.51	69.15	1,000.0	13.2	34.6	-13.2	1.00	1.00	Fox Hills - BASE
1,082.8	7.33	69.15	1,080.8	16.7	43.7	-16.7	1.00	1.00	EOB; Inc=7.33°
1,100.0	7.33	69.15	1,097.9	17.4	45.8	-17.4	0.00	0.00	
1,200.0	7.33	69.15	1,197.0	22.0	57.7	-22.0	0.00	0.00	
1,300.0	7.33	69.15	1,296.2	26.5	69.6	-26.5	0.00	0.00	
1,400.0	7.33	69.15	1,395.4	31.1	81.5	-31.1	0.00	0.00	
1,500.0	7.33	69.15	1,494.6	35.6	93.5	-35.6	0.00	0.00	
1,600.0	7.33	69.15	1,593.8	40.1	105.4	-40.1	0.00	0.00	
1,700.0	7.33	69.15	1,693.0	44.7	117.3	-44.7	0.00	0.00	
1,800.0	7.33	69.15	1,792.1	49.2	129.2	-49.2	0.00	0.00	
1,900.0	7.33	69.15	1,891.3	53.8	141.1	-53.8	0.00	0.00	
2,000.0	7.33	69.15	1,990.5	58.3	153.1	-58.3	0.00	0.00	
2,100.0	7.33	69.15	2,089.7	62.8	165.0	-62.8	0.00	0.00	
2,200.0	7.33	69.15	2,188.9	67.4	176.9	-67.4	0.00	0.00	
2,300.0	7.33	69.15	2,288.1	71.9	188.8	-71.9	0.00	0.00	
2,400.0	7.33	69.15	2,387.2	76.4	200.7	-76.4	0.00	0.00	
2,500.0	7.33	69.15	2,486.4	81.0	212.7	-81.0	0.00	0.00	
2,600.0	7.33	69.15	2,585.6	85.5	224.6	-85.5	0.00	0.00	
2,700.0	7.33	69.15	2,684.8	90.1	236.5	-90.1	0.00	0.00	
2,800.0	7.33	69.15	2,784.0	94.6	248.4	-94.6	0.00	0.00	
2,900.0	7.33	69.15	2,883.2	99.1	260.3	-99.1	0.00	0.00	
3,000.0	7.33	69.15	2,982.3	103.7	272.2	-103.7	0.00	0.00	
3,100.0	7.33	69.15	3,081.5	108.2	284.2	-108.2	0.00	0.00	
3,200.0	7.33	69.15	3,180.7	112.8	296.1	-112.8	0.00	0.00	
3,300.0	7.33	69.15	3,279.9	117.3	308.0	-117.3	0.00	0.00	
3,400.0	7.33	69.15	3,379.1	121.8	319.9	-121.8	0.00	0.00	
3,500.0	7.33	69.15	3,478.3	126.4	331.8	-126.4	0.00	0.00	
3,600.0	7.33	69.15	3,577.4	130.9	343.8	-130.9	0.00	0.00	
3,700.0	7.33	69.15	3,676.6	135.5	355.7	-135.5	0.00	0.00	
3,800.0	7.33	69.15	3,775.8	140.0	367.6	-140.0	0.00	0.00	
3,900.0	7.33	69.15	3,875.0	144.5	379.5	-144.5	0.00	0.00	
4,000.0	7.33	69.15	3,974.2	149.1	391.4	-149.1	0.00	0.00	
4,100.0	7.33	69.15	4,073.4	153.6	403.4	-153.6	0.00	0.00	
4,200.0	7.33	69.15	4,172.5	158.2	415.3	-158.2	0.00	0.00	
4,300.0	7.33	69.15	4,271.7	162.7	427.2	-162.7	0.00	0.00	
4,400.0	7.33	69.15	4,370.9	167.2	439.1	-167.2	0.00	0.00	
4,433.4	7.33	69.15	4,404.0	168.7	443.1	-168.7	0.00	0.00	Sussex
4,500.0	7.33	69.15	4,470.1	171.8	451.0	-171.8	0.00	0.00	
4,600.0	7.33	69.15	4,569.3	176.3	463.0	-176.3	0.00	0.00	
4,691.5	7.33	69.15	4,660.0	180.5	473.9	-180.5	0.00	0.00	Shannon

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	7.33	69.15	4,668.5	180.8	474.9	-180.8	0.00	0.00	
4,800.0	7.33	69.15	4,767.6	185.4	486.8	-185.4	0.00	0.00	
4,900.0	7.33	69.15	4,866.8	189.9	498.7	-189.9	0.00	0.00	
5,000.0	7.33	69.15	4,966.0	194.5	510.6	-194.5	0.00	0.00	
5,016.1	7.33	69.15	4,982.0	195.2	512.6	-195.2	0.00	0.00	Teepee Buttes (*if present)
5,100.0	7.33	69.15	5,065.2	199.0	522.6	-199.0	0.00	0.00	
5,200.0	7.33	69.15	5,164.4	203.5	534.5	-203.5	0.00	0.00	
5,300.0	7.33	69.15	5,263.6	208.1	546.4	-208.1	0.00	0.00	
5,400.0	7.33	69.15	5,362.7	212.6	558.3	-212.6	0.00	0.00	
5,500.0	7.33	69.15	5,461.9	217.2	570.2	-217.2	0.00	0.00	
5,600.0	7.33	69.15	5,561.1	221.7	582.1	-221.7	0.00	0.00	
5,700.0	7.33	69.15	5,660.3	226.2	594.1	-226.2	0.00	0.00	
5,800.0	7.33	69.15	5,759.5	230.8	606.0	-230.8	0.00	0.00	
5,900.0	7.33	69.15	5,858.7	235.3	617.9	-235.3	0.00	0.00	
6,000.0	7.33	69.15	5,957.8	239.9	629.8	-239.9	0.00	0.00	
6,100.0	7.33	69.15	6,057.0	244.4	641.7	-244.4	0.00	0.00	
6,200.0	7.33	69.15	6,156.2	248.9	653.7	-248.9	0.00	0.00	
6,300.0	7.33	69.15	6,255.4	253.5	665.6	-253.5	0.00	0.00	
6,400.0	7.33	69.15	6,354.6	258.0	677.5	-258.0	0.00	0.00	
6,475.7	7.33	69.15	6,429.6	261.5	686.5	-261.5	0.00	0.00	Start build/turn @ 6475' MD
6,500.0	6.88	84.52	6,453.8	262.1	689.4	-262.1	8.00	-1.83	
6,600.0	10.03	137.21	6,552.8	256.3	701.3	-256.3	8.00	3.15	
6,700.0	16.77	156.50	6,650.1	236.7	713.0	-236.7	8.00	6.74	
6,800.0	24.27	164.55	6,743.7	203.6	724.3	-203.6	8.00	7.50	
6,900.0	32.01	168.92	6,831.8	157.7	734.9	-157.7	8.00	7.73	
6,903.8	32.30	169.04	6,835.0	155.7	735.2	-155.7	8.00	7.80	Sharon Springs
6,938.6	35.03	170.13	6,864.0	136.7	738.7	-136.7	8.00	7.81	Niobrara
7,000.0	39.84	171.72	6,912.7	99.9	744.6	-99.9	8.00	7.84	
7,047.3	43.56	172.74	6,948.0	68.7	748.8	-68.7	8.00	7.87	B Chalk
7,079.7	46.12	173.36	6,971.0	46.0	751.6	-46.0	8.00	7.88	B Marl
7,100.0	47.72	173.73	6,984.9	31.3	753.2	-31.3	8.00	7.89	
7,157.8	52.29	174.67	7,022.0	-12.7	757.7	12.7	8.00	7.90	C Chalk
7,200.0	55.63	175.28	7,046.8	-46.7	760.7	46.7	8.00	7.91	
7,212.9	56.64	175.46	7,054.0	-57.4	761.6	57.4	8.00	7.92	C Marl
7,271.0	61.25	176.22	7,084.0	-107.1	765.2	107.1	8.00	7.92	D Chalk
7,300.0	63.55	176.57	7,097.4	-132.7	766.8	132.7	8.00	7.93	
7,400.0	71.48	177.69	7,135.6	-224.9	771.4	224.9	8.00	7.93	
7,476.3	77.54	178.48	7,156.0	-298.3	773.8	298.3	8.00	7.94	Fort Hayes
7,500.0	79.42	178.71	7,160.7	-321.6	774.4	321.6	8.00	7.94	
7,557.2	83.96	179.27	7,169.0	-378.1	775.4	378.1	8.00	7.94	Codell
7,600.0	87.36	179.68	7,172.2	-420.8	775.8	420.8	8.00	7.94	
7,633.2	90.00	180.00	7,173.0	-454.0	775.9	454.0	8.00	7.94	LP @ 7173' TVD; 90°
7,700.0	90.00	180.00	7,173.0	-520.8	775.9	520.8	0.00	0.00	
7,800.0	90.00	180.00	7,173.0	-620.8	775.9	620.8	0.00	0.00	
7,900.0	90.00	180.00	7,173.0	-720.8	775.9	720.8	0.00	0.00	
8,000.0	90.00	180.00	7,173.0	-820.8	775.9	820.8	0.00	0.00	
8,100.0	90.00	180.00	7,173.0	-920.8	775.9	920.8	0.00	0.00	
8,200.0	90.00	180.00	7,173.0	-1,020.8	775.9	1,020.8	0.00	0.00	
8,300.0	90.00	180.00	7,173.0	-1,120.8	775.9	1,120.8	0.00	0.00	
8,400.0	90.00	180.00	7,173.0	-1,220.8	775.9	1,220.8	0.00	0.00	
8,500.0	90.00	180.00	7,173.0	-1,320.8	775.9	1,320.8	0.00	0.00	
8,600.0	90.00	180.00	7,173.0	-1,420.8	775.9	1,420.8	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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
8,700.0	90.00	180.00	7,173.0	-1,520.8	775.9	1,520.8	0.00	0.00	
8,800.0	90.00	180.00	7,173.0	-1,620.8	775.9	1,620.8	0.00	0.00	
8,900.0	90.00	180.00	7,173.0	-1,720.8	775.9	1,720.8	0.00	0.00	
9,000.0	90.00	180.00	7,173.0	-1,820.8	775.9	1,820.8	0.00	0.00	
9,100.0	90.00	180.00	7,173.0	-1,920.8	775.9	1,920.8	0.00	0.00	
9,200.0	90.00	180.00	7,173.0	-2,020.8	775.9	2,020.8	0.00	0.00	
9,300.0	90.00	180.00	7,173.0	-2,120.8	775.9	2,120.8	0.00	0.00	
9,400.0	90.00	180.00	7,173.0	-2,220.8	775.9	2,220.8	0.00	0.00	
9,500.0	90.00	180.00	7,173.0	-2,320.8	775.9	2,320.8	0.00	0.00	
9,600.0	90.00	180.00	7,173.0	-2,420.8	775.9	2,420.8	0.00	0.00	
9,700.0	90.00	180.00	7,173.0	-2,520.8	775.9	2,520.8	0.00	0.00	
9,800.0	90.00	180.00	7,173.0	-2,620.8	775.9	2,620.8	0.00	0.00	
9,900.0	90.00	180.00	7,173.0	-2,720.8	775.9	2,720.8	0.00	0.00	
10,000.0	90.00	180.00	7,173.0	-2,820.8	775.9	2,820.8	0.00	0.00	
10,100.0	90.00	180.00	7,173.0	-2,920.8	775.9	2,920.8	0.00	0.00	
10,200.0	90.00	180.00	7,173.0	-3,020.8	775.9	3,020.8	0.00	0.00	
10,300.0	90.00	180.00	7,173.0	-3,120.8	775.9	3,120.8	0.00	0.00	
10,400.0	90.00	180.00	7,173.0	-3,220.8	775.9	3,220.8	0.00	0.00	
10,500.0	90.00	180.00	7,173.0	-3,320.8	775.9	3,320.8	0.00	0.00	
10,600.0	90.00	180.00	7,173.0	-3,420.8	775.9	3,420.8	0.00	0.00	
10,700.0	90.00	180.00	7,173.0	-3,520.8	775.9	3,520.8	0.00	0.00	
10,800.0	90.00	180.00	7,173.0	-3,620.8	775.9	3,620.8	0.00	0.00	
10,900.0	90.00	180.00	7,173.0	-3,720.8	775.9	3,720.8	0.00	0.00	
11,000.0	90.00	180.00	7,173.0	-3,820.8	775.9	3,820.8	0.00	0.00	
11,100.0	90.00	180.00	7,173.0	-3,920.8	775.9	3,920.8	0.00	0.00	
11,200.0	90.00	180.00	7,173.0	-4,020.8	775.9	4,020.8	0.00	0.00	
11,300.0	90.00	180.00	7,173.0	-4,120.8	775.9	4,120.8	0.00	0.00	
11,400.0	90.00	180.00	7,173.0	-4,220.8	775.9	4,220.8	0.00	0.00	
11,500.0	90.00	180.00	7,173.0	-4,320.8	775.9	4,320.8	0.00	0.00	
11,600.0	90.00	180.00	7,173.0	-4,420.8	775.9	4,420.8	0.00	0.00	
11,700.0	90.00	180.00	7,173.0	-4,520.8	775.9	4,520.8	0.00	0.00	
11,743.2	90.00	180.00	7,173.0	-4,564.0	775.9	4,564.0	0.00	0.00	TD at 11743.2

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Ruhl 1I-32H-B264 PBHL - plan hits target center - Point	0.00	0.00	7,173.0	-4,564.0	775.9	1,276,610.55	3,260,746.52	40.088919	-104.568064

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,001.4	1,000.0	Fox Hills - BASE				
4,433.4	4,404.0	Sussex				
4,691.5	4,660.0	Shannon				
5,016.1	4,982.0	Teepee Buttes (*if present)				
6,903.8	6,835.0	Sharon Springs				
6,938.6	6,864.0	Niobrara				
7,047.3	6,948.0	B Chalk				
7,079.7	6,971.0	B Marl				
7,157.8	7,022.0	C Chalk				
7,212.9	7,054.0	C Marl				
7,271.0	7,084.0	D Chalk				
7,476.3	7,156.0	Fort Hayes				
7,557.2	7,169.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
350.0	350.0	0.0	0.0	KOP @ 350'	
1,082.8	1,080.8	16.7	43.7	EOB; Inc=7.33°	
6,475.7	6,429.6	261.5	686.5	Start build/turn @ 6475' MD	
7,633.2	7,173.0	-454.0	775.9	LP @ 7173' TVD; 90°	
11,743.2	7,173.0	-4,564.0	775.9	TD at 11743.2	

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S32-T2N-R64W (Newman)**

**Ruhl 1I-32H-B264**

**Hz**

**Plan #1**

## **Anticollision Report**

**09 July, 2014**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	7/9/2014		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	11,743.2	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S32-T2N-R64W (Newman)						
LAND USX Y31-01 (EXISTING) - EXISTING - NOBLE W						Out of range
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE						Out of range
Newman 2A-32H-C264 - Hz - Plan #1						Out of range
Newman 2B-32H-C264 - Hz - Plan #1						Out of range
Newman 2C-32H-C264 - Hz - Plan #1						Out of range
Newman 2D-32H-C264 - Hz - Plan #1						Out of range
Newman 2E-32H-C264 - Hz - Plan #1						Out of range
Newman 2F-32H-C264 - Hz - Plan #1						Out of range
Newman 2G-32H-C264 - Hz - Plan #1						Out of range
Newman 2H-32H-C264 - Hz - Plan #1						Out of range
Newman 2I-32H-C264 - Hz - Plan #1						Out of range
Newman 2J-32H-C264 - Hz - Plan #1						Out of range
Newman 2K-32H-C264 - Hz - Plan #1						Out of range
Newman 2L-32H-C264 - Hz - Plan #1						Out of range
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL	7,825.5	7,216.6	228.0	197.4	7.453	CC, ES, SF
Ruhl 1A-32H-B264 - Hz - Plan #1	200.0	200.0	812.4	811.7	1,163.626	CC, ES
Ruhl 1A-32H-B264 - Hz - Plan #1	1,800.0	1,762.8	988.6	982.0	150.890	SF
Ruhl 1B-32H-B264 - Hz - Plan #1	300.0	300.0	802.3	801.2	766.134	CC
Ruhl 1B-32H-B264 - Hz - Plan #1	400.0	400.0	802.5	801.1	574.757	ES
Ruhl 1B-32H-B264 - Hz - Plan #1	2,300.0	2,290.8	990.5	982.2	118.618	SF
Ruhl 1C-32H-B264 - Hz - Plan #1	300.0	300.0	792.2	791.2	756.517	CC
Ruhl 1C-32H-B264 - Hz - Plan #1	400.0	400.0	792.4	791.0	567.545	ES
Ruhl 1C-32H-B264 - Hz - Plan #1	3,100.0	3,119.4	997.0	985.4	86.480	SF
Ruhl 1D-32H-B264 - Hz - Plan #1	300.0	300.0	782.2	781.1	746.901	CC
Ruhl 1D-32H-B264 - Hz - Plan #1	400.0	400.0	782.4	781.0	560.332	ES
Ruhl 1D-32H-B264 - Hz - Plan #1	5,000.0	5,047.5	997.9	978.9	52.606	SF
Ruhl 1E-32H-B264 - Hz - Plan #1	979.7	1,059.0	769.3	765.7	213.293	CC
Ruhl 1E-32H-B264 - Hz - Plan #1	11,743.2	11,512.8	925.0	764.2	5.754	ES, SF
Ruhl 1F-32H-B264 - Hz - Plan #1	7,076.3	7,141.8	674.7	649.8	27.103	CC
Ruhl 1F-32H-B264 - Hz - Plan #1	11,743.2	11,747.9	675.1	510.0	4.088	ES, SF
Ruhl 1G-32H-B264 - Hz - Plan #1	300.0	300.0	20.1	19.1	19.237	CC
Ruhl 1G-32H-B264 - Hz - Plan #1	400.0	400.0	20.3	19.0	14.573	ES
Ruhl 1G-32H-B264 - Hz - Plan #1	11,743.2	11,577.0	468.0	308.9	2.941	SF
Ruhl 1H-32H-B264 - Hz - Plan #1	300.0	300.0	10.1	9.0	9.617	CC
Ruhl 1H-32H-B264 - Hz - Plan #1	400.0	400.0	10.3	8.9	7.359	ES
Ruhl 1H-32H-B264 - Hz - Plan #1	11,743.2	11,509.6	310.0	187.7	2.534	SF
Ruhl 1J-32H-B264 - Hz - Plan #1	300.0	300.0	10.1	9.0	9.617	CC, ES
Ruhl 1J-32H-B264 - Hz - Plan #1	11,743.2	11,642.8	250.1	106.7	1.745	SF
Ruhl 1K-32H-B264 - Hz - Plan #1	233.4	233.4	19.9	19.0	24.383	CC
Ruhl 1K-32H-B264 - Hz - Plan #1	300.0	299.8	20.1	19.0	19.173	ES
Ruhl 1K-32H-B264 - Hz - Plan #1	11,743.2	11,595.9	497.8	347.5	3.312	SF
Ruhl 1L-32H-B264 - Hz - Plan #1	200.0	200.0	29.9	29.2	42.877	CC, ES
Ruhl 1L-32H-B264 - Hz - Plan #1	11,743.2	11,845.8	674.9	509.5	4.082	SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - RUHL 1 (EXISTING) - EXISTING - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-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	37.8	37.8	0.0	0.1	143.34	-698.0	519.5	870.1	870.0	0.07	N/A		
100.0	100.0	133.6	133.6	0.2	0.2	143.33	-698.3	520.0	870.6	870.2	0.41	2,133.147		
200.0	200.0	233.5	233.5	0.3	0.4	143.33	-699.0	520.4	871.4	870.7	0.76	1,150.385		
300.0	300.0	336.3	336.3	0.5	0.6	143.36	-699.7	520.4	872.0	870.9	1.11	784.356		
400.0	400.0	436.2	436.2	0.7	0.8	74.24	-700.1	520.4	872.3	870.9	1.46	597.690		
500.0	500.0	533.8	533.8	0.9	0.9	74.34	-700.6	520.8	872.4	870.6	1.81	483.101		
600.0	599.9	632.9	632.9	1.1	1.1	74.58	-701.4	521.0	872.3	870.1	2.16	403.962		
700.0	699.8	732.1	732.1	1.2	1.3	74.94	-702.3	521.2	871.7	869.2	2.52	345.840		
800.0	799.5	831.3	831.3	1.4	1.5	75.41	-703.2	521.5	870.9	868.0	2.89	301.006		
900.0	899.2	930.8	930.7	1.7	1.6	75.98	-704.1	521.9	869.7	866.4	3.28	265.090		
1,000.0	998.6	1,031.1	1,031.0	1.9	1.8	76.68	-704.9	522.4	868.2	864.5	3.69	235.439		
1,100.0	1,097.9	1,132.4	1,132.4	2.1	2.0	77.49	-705.5	522.8	866.1	862.0	4.11	210.521		
1,200.0	1,197.0	1,230.9	1,230.8	2.4	2.2	78.32	-706.2	522.9	864.1	859.5	4.54	190.163		
1,300.0	1,296.2	1,328.4	1,328.3	2.7	2.3	79.13	-707.0	523.3	862.5	857.5	4.98	173.271		
1,400.0	1,395.4	1,428.8	1,428.8	2.9	2.5	79.97	-707.7	523.7	861.0	855.5	5.42	158.830		
1,500.0	1,494.6	1,527.3	1,527.3	3.2	2.7	80.82	-708.5	523.8	859.6	853.7	5.86	146.599		
1,600.0	1,593.8	1,625.0	1,624.9	3.5	2.8	81.66	-709.5	524.0	858.6	852.3	6.31	136.121		
1,700.0	1,693.0	1,725.2	1,725.1	3.8	3.0	82.54	-710.6	524.0	857.9	851.1	6.76	126.926		
1,800.0	1,792.1	1,826.5	1,826.4	4.0	3.2	83.43	-711.5	524.0	857.1	849.9	7.21	118.820		
1,900.0	1,891.3	1,926.8	1,926.7	4.3	3.4	84.34	-712.4	523.4	856.3	848.6	7.67	111.679		
2,000.0	1,990.5	2,025.8	2,025.8	4.6	3.5	85.24	-713.3	522.9	855.7	847.6	8.12	105.378		
2,100.0	2,089.7	2,126.0	2,125.9	4.9	3.7	86.15	-714.1	522.3	855.2	846.6	8.58	99.722		
2,200.0	2,188.9	2,225.6	2,225.5	5.1	3.9	87.06	-715.0	521.6	854.9	845.9	9.03	94.669		
2,300.0	2,288.1	2,330.0	2,329.9	5.4	4.1	88.02	-715.4	520.7	854.5	845.0	9.49	89.993		
2,400.0	2,387.2	2,432.6	2,432.5	5.7	4.3	88.96	-715.4	519.8	853.7	843.7	9.96	85.756		
2,500.0	2,486.4	2,535.5	2,535.4	6.0	4.4	89.89	-714.9	518.7	852.7	842.3	10.42	81.868		
2,600.0	2,585.6	2,636.8	2,636.7	6.3	4.6	90.82	-714.0	517.4	851.6	840.7	10.87	78.318		
2,700.0	2,684.8	2,735.7	2,735.6	6.6	4.8	91.73	-713.1	516.1	850.5	839.2	11.33	75.095		
2,800.0	2,784.0	2,834.2	2,834.0	6.8	5.0	92.62	-712.2	515.2	849.8	838.1	11.78	72.159		
2,900.0	2,883.2	2,934.6	2,934.5	7.1	5.1	93.49	-711.0	514.7	849.2	837.0	12.23	69.433		
3,000.0	2,982.3	3,034.6	3,034.4	7.4	5.3	94.32	-709.6	514.6	848.8	836.1	12.68	66.921		
3,100.0	3,081.5	3,134.7	3,134.6	7.7	5.5	95.16	-708.1	514.6	848.3	835.2	13.13	64.586		
3,200.0	3,180.7	3,233.8	3,233.6	8.0	5.6	95.97	-706.5	514.6	848.0	834.4	13.58	62.435		
3,300.0	3,279.9	3,333.8	3,333.6	8.2	5.8	96.82	-704.9	514.4	847.9	833.8	14.03	60.426		
3,356.7	3,336.1	3,390.1	3,389.9	8.4	5.9	97.30	-704.0	514.3	847.8	833.5	14.28	59.353		
3,400.0	3,379.1	3,433.3	3,433.1	8.5	6.0	97.66	-703.3	514.2	847.8	833.4	14.48	58.561		
3,500.0	3,478.3	3,533.2	3,533.0	8.8	6.2	98.49	-701.6	514.2	847.9	833.0	14.92	56.818		
3,600.0	3,577.4	3,633.1	3,632.9	9.1	6.3	99.31	-699.8	514.2	848.1	832.8	15.37	55.189		
3,700.0	3,676.6	3,734.9	3,734.7	9.4	6.5	100.15	-697.8	514.2	848.4	832.6	15.81	53.649		
3,800.0	3,775.8	3,838.4	3,838.2	9.7	6.7	100.98	-695.2	514.4	848.3	832.0	16.26	52.168		
3,900.0	3,875.0	3,939.5	3,939.2	9.9	6.9	101.77	-692.3	514.9	848.1	831.4	16.70	50.775		
4,000.0	3,974.2	4,040.4	4,040.0	10.2	7.1	102.54	-689.2	515.6	847.8	830.6	17.14	49.457		
4,100.0	4,073.4	4,139.8	4,139.4	10.5	7.2	103.30	-685.9	516.3	847.5	829.9	17.58	48.216		
4,137.6	4,110.6	4,176.5	4,176.0	10.6	7.3	103.58	-684.8	516.6	847.5	829.8	17.74	47.774		
4,200.0	4,172.5	4,236.9	4,236.4	10.8	7.4	104.03	-682.9	517.2	847.6	829.6	18.01	47.067		
4,300.0	4,271.7	4,334.4	4,333.8	11.1	7.6	104.75	-680.2	518.3	848.1	829.6	18.44	45.998		
4,400.0	4,370.9	4,431.4	4,430.8	11.4	7.7	105.48	-677.6	519.2	848.8	830.0	18.86	44.999		
4,500.0	4,470.1	4,525.3	4,524.7	11.6	7.9	106.17	-675.6	520.3	850.4	831.1	19.28	44.097		
4,600.0	4,569.3	4,622.7	4,622.0	11.9	8.1	106.88	-674.0	521.6	852.4	832.7	19.71	43.252		
4,700.0	4,668.5	4,721.6	4,721.0	12.2	8.3	107.59	-672.5	522.9	854.8	834.6	20.13	42.458		
4,800.0	4,767.6	4,824.2	4,823.5	12.5	8.4	108.38	-670.7	523.5	857.0	836.5	20.56	41.690		
4,900.0	4,866.8	4,924.6	4,923.9	12.8	8.6	109.19	-668.8	523.5	859.2	838.3	20.98	40.964		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - RUHL 1 (EXISTING) - EXISTING - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
5,000.0	4,966.0	5,024.2	5,023.5	13.1	8.8	110.03	-666.8	522.8	861.5	840.1	21.39	40.280			
5,100.0	5,065.2	5,122.2	5,121.5	13.3	9.0	110.85	-664.8	522.1	864.0	842.2	21.80	39.641			
5,200.0	5,164.4	5,218.4	5,217.7	13.6	9.1	111.67	-663.2	521.2	866.9	844.7	22.20	39.056			
5,300.0	5,263.6	5,316.2	5,315.4	13.9	9.3	112.51	-661.8	520.1	870.3	847.7	22.60	38.514			
5,400.0	5,362.7	5,414.9	5,414.1	14.2	9.5	113.32	-660.4	519.4	874.0	851.0	23.00	38.003			
5,500.0	5,461.9	5,513.7	5,512.9	14.5	9.6	114.10	-659.1	519.0	877.9	854.5	23.40	37.521			
5,600.0	5,561.1	5,613.3	5,612.5	14.8	9.8	114.87	-657.9	518.8	881.9	858.1	23.79	37.065			
5,700.0	5,660.3	5,713.1	5,712.4	15.0	10.0	115.64	-656.5	518.7	886.0	861.9	24.19	36.629			
5,800.0	5,759.5	5,811.5	5,810.7	15.3	10.2	116.36	-655.2	518.8	890.4	865.8	24.58	36.221			
5,900.0	5,858.7	5,910.8	5,910.0	15.6	10.3	117.08	-654.0	519.1	894.9	869.9	24.97	35.833			
6,000.0	5,957.8	6,008.9	6,008.1	15.9	10.5	117.79	-652.8	519.3	899.6	874.2	25.36	35.472			
6,100.0	6,057.0	6,110.5	6,109.7	16.2	10.7	118.50	-651.6	519.7	904.4	878.6	25.75	35.120			
6,200.0	6,156.2	6,210.1	6,209.2	16.5	10.9	119.17	-650.3	520.3	909.1	883.0	26.14	34.784			
6,300.0	6,255.4	6,308.9	6,308.0	16.7	11.0	119.83	-649.0	521.2	914.0	887.5	26.52	34.465			
6,400.0	6,354.6	6,404.6	6,403.8	17.0	11.2	120.41	-648.0	522.5	919.3	892.4	26.90	34.172			
6,500.0	6,453.8	6,504.0	6,503.2	17.3	11.4	120.74	-647.3	524.2	924.4	897.1	27.29	33.870			
6,600.0	6,552.8	6,604.4	6,603.5	17.5	11.6	121.07	-646.5	525.9	929.5	902.3	27.66	33.577			
6,700.0	6,651.9	6,703.3	6,702.4	17.7	11.7	121.36	-645.9	528.3	934.7	907.5	28.02	33.284			
6,800.0	6,751.0	6,794.8	6,793.8	17.8	11.9	121.66	-645.5	531.5	939.9	912.7	28.37	32.991			
6,900.0	6,850.1	6,884.1	6,883.0	17.9	12.1	121.96	-645.2	535.2	945.1	917.9	28.72	32.698			
7,000.0	6,949.2	6,964.9	6,963.7	18.0	12.2	122.26	-645.1	539.1	950.3	923.1	29.07	32.405			
7,100.0	7,048.3	7,034.8	7,033.6	18.2	12.3	122.56	-645.2	542.8	955.5	928.3	29.42	32.112			
7,200.0	7,147.4	7,093.4	7,092.1	18.4	12.4	122.86	-645.3	546.5	960.7	933.5	29.77	31.819			
7,300.0	7,246.5	7,140.5	7,139.2	18.8	12.5	123.16	-645.6	546.7	965.9	938.7	30.12	31.526			
7,400.0	7,345.6	7,176.5	7,175.2	19.3	12.6	123.46	-645.9	547.4	971.1	943.9	30.47	31.233			
7,500.0	7,444.7	7,200.8	7,199.5	19.8	12.6	123.76	-646.1	547.7	976.3	949.1	30.82	30.940			
7,600.0	7,543.8	7,213.3	7,211.9	20.6	12.6	124.06	-646.3	547.8	981.5	954.3	31.17	30.647			
7,700.0	7,642.9	7,215.1	7,213.8	21.4	12.6	124.36	-646.3	547.8	986.7	959.5	31.52	30.354			
7,800.0	7,742.0	7,216.3	7,214.9	22.3	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
7,825.5	7,713.0	7,216.6	7,215.2	22.6	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
7,900.0	7,713.0	7,217.4	7,216.1	23.3	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
8,000.0	7,713.0	7,218.6	7,217.2	24.5	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
8,100.0	7,713.0	7,219.7	7,218.4	25.6	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
8,200.0	7,713.0	7,220.9	7,219.5	26.9	12.6	124.66	-646.3	547.9	991.9	964.7	31.87	30.061			
8,300.0	7,713.0	7,222.0	7,220.7	28.2	12.6	124.66	-646.4	547.9	991.9	964.7	31.87	30.061			
8,400.0	7,713.0	7,223.2	7,221.8	29.5	12.6	124.66	-646.4	547.9	991.9	964.7	31.87	30.061			
8,500.0	7,713.0	7,224.3	7,223.0	30.9	12.7	124.66	-646.4	547.9	991.9	964.7	31.87	30.061			
8,600.0	7,713.0	7,225.5	7,224.2	32.3	12.7	124.66	-646.4	547.9	991.9	964.7	31.87	30.061			
8,700.0	7,713.0	7,226.7	7,225.3	33.8	12.7	124.66	-646.4	548.0	991.9	964.7	31.87	30.061			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1A-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-90.23	-3.2	-812.4	812.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.23	-3.2	-812.4	812.4	812.0	0.35	2,327.251		
200.0	200.0	200.0	200.0	0.3	0.3	-90.23	-3.2	-812.4	812.4	811.7	0.70	1,163.626	CC, ES	
300.0	300.0	286.1	286.1	0.5	0.5	-90.15	-2.2	-813.1	813.2	812.2	1.02	793.458		
400.0	400.0	374.5	374.4	0.7	0.7	-159.08	1.1	-815.4	816.0	814.6	1.36	599.646		
500.0	500.0	474.3	474.1	0.9	0.9	-158.79	5.5	-818.5	820.7	819.0	1.72	476.888		
600.0	599.9	574.1	573.7	1.1	1.1	-158.54	10.0	-821.6	827.2	825.1	2.08	397.142		
700.0	699.8	673.7	673.2	1.2	1.2	-158.34	14.5	-824.7	835.2	832.7	2.45	341.491		
800.0	799.5	773.2	772.5	1.4	1.4	-158.18	18.9	-827.8	844.9	842.0	2.81	300.667		
900.0	899.2	872.6	871.7	1.7	1.6	-158.06	23.4	-830.9	856.1	853.0	3.18	269.595		
1,000.0	998.6	971.8	970.8	1.9	1.8	-157.97	27.8	-834.0	869.0	865.5	3.54	245.273		
1,100.0	1,097.9	1,070.7	1,069.6	2.1	2.0	-157.94	32.3	-837.1	883.5	879.6	3.91	225.778		
1,200.0	1,197.0	1,169.6	1,168.3	2.4	2.2	-157.96	36.7	-840.2	898.5	894.2	4.29	209.544		
1,300.0	1,296.2	1,268.4	1,267.0	2.7	2.4	-157.98	41.2	-843.3	913.5	908.8	4.66	195.877		
1,400.0	1,395.4	1,367.3	1,365.7	2.9	2.6	-158.00	45.6	-846.4	928.5	923.5	5.04	184.220		
1,500.0	1,494.6	1,466.2	1,464.4	3.2	2.8	-158.02	50.0	-849.5	943.5	938.1	5.42	174.165		
1,600.0	1,593.8	1,565.0	1,563.2	3.5	3.0	-158.05	54.4	-852.6	958.5	952.8	5.80	165.405		
1,700.0	1,693.0	1,663.9	1,661.9	3.8	3.2	-158.06	58.9	-855.7	973.6	967.4	6.17	157.707		
1,800.0	1,792.1	1,762.8	1,760.6	4.0	3.4	-158.08	63.3	-858.8	988.6	982.0	6.55	150.890	SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1B-32H-B264 - 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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.23	-3.3	-802.3	802.3					
100.0	100.0	100.0	100.0	0.2	0.2	-90.23	-3.3	-802.3	802.3	801.9	0.35	2,298.402		
200.0	200.0	200.0	200.0	0.3	0.3	-90.23	-3.3	-802.3	802.3	801.6	0.70	1,149.201		
300.0	300.0	300.0	300.0	0.5	0.5	-90.23	-3.3	-802.3	802.3	801.2	1.05	766.134 CC		
327.8	327.8	327.8	327.8	0.6	0.6	-159.38	-3.3	-802.3	802.3	801.2	1.14	701.232		
400.0	400.0	400.0	400.0	0.7	0.7	-159.39	-3.3	-802.3	802.5	801.1	1.40	574.757 ES		
500.0	500.0	500.0	500.0	0.9	0.9	-159.43	-3.3	-802.3	804.1	802.4	1.75	460.770		
600.0	599.9	599.9	599.9	1.1	1.0	-159.50	-3.3	-802.3	807.4	805.3	2.09	385.528		
700.0	699.8	699.8	699.8	1.2	1.2	-159.61	-3.3	-802.3	812.3	809.9	2.44	332.403		
800.0	799.5	799.5	799.5	1.4	1.4	-159.76	-3.3	-802.3	818.8	816.1	2.79	293.091		
900.0	899.2	899.2	899.2	1.7	1.6	-159.94	-3.3	-802.3	827.0	823.9	3.14	262.986		
1,000.0	998.6	998.6	998.6	1.9	1.7	-160.15	-3.3	-802.3	836.9	833.4	3.50	239.330		
1,100.0	1,097.9	1,098.8	1,098.8	2.1	1.9	-160.29	-1.6	-802.3	848.3	844.4	3.85	220.155		
1,200.0	1,197.0	1,198.6	1,198.5	2.4	2.1	-160.26	3.2	-802.2	860.1	855.9	4.22	203.983		
1,300.0	1,296.2	1,297.9	1,297.6	2.7	2.3	-160.20	8.4	-802.2	872.0	867.4	4.58	190.250		
1,400.0	1,395.4	1,397.2	1,396.8	2.9	2.5	-160.14	13.6	-802.1	883.8	878.9	4.95	178.445		
1,500.0	1,494.6	1,496.5	1,495.9	3.2	2.6	-160.08	18.8	-802.1	895.7	890.4	5.33	168.204		
1,600.0	1,593.8	1,595.8	1,595.1	3.5	2.8	-160.03	24.0	-802.0	907.5	901.8	5.70	159.246		
1,700.0	1,693.0	1,695.1	1,694.3	3.8	3.0	-159.97	29.2	-802.0	919.4	913.3	6.07	151.351		
1,800.0	1,792.1	1,794.4	1,793.4	4.0	3.2	-159.92	34.3	-801.9	931.2	924.8	6.45	144.346		
1,900.0	1,891.3	1,893.7	1,892.6	4.3	3.4	-159.87	39.5	-801.9	943.1	936.3	6.83	138.091		
2,000.0	1,990.5	1,992.9	1,991.7	4.6	3.6	-159.82	44.7	-801.8	955.0	947.8	7.21	132.474		
2,100.0	2,089.7	2,092.2	2,090.9	4.9	3.8	-159.77	49.9	-801.8	966.8	959.2	7.59	127.404		
2,200.0	2,188.9	2,191.5	2,190.0	5.1	4.0	-159.72	55.1	-801.7	978.7	970.7	7.97	122.806		
2,300.0	2,288.1	2,290.8	2,289.2	5.4	4.2	-159.67	60.3	-801.6	990.5	982.2	8.35	118.618 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1C-32H-B264 - 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	-90.24	-3.3	-792.2	792.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.24	-3.3	-792.2	792.2	791.9	0.35	2,269.552		
200.0	200.0	200.0	200.0	0.3	0.3	-90.24	-3.3	-792.2	792.2	791.5	0.70	1,134.776		
300.0	300.0	300.0	300.0	0.5	0.5	-90.24	-3.3	-792.2	792.2	791.2	1.05	756.517	CC	
327.8	327.8	327.8	327.8	0.6	0.6	-159.39	-3.3	-792.2	792.3	791.1	1.14	692.430		
400.0	400.0	400.0	400.0	0.7	0.7	-159.39	-3.3	-792.2	792.4	791.0	1.40	567.545	ES	
500.0	500.0	500.0	500.0	0.9	0.9	-159.43	-3.3	-792.2	794.1	792.3	1.75	455.000		
600.0	599.9	599.9	599.9	1.1	1.0	-159.51	-3.3	-792.2	797.3	795.2	2.09	380.720		
700.0	699.8	708.8	708.8	1.2	1.2	-159.58	-2.4	-791.6	801.7	799.2	2.46	325.904		
800.0	799.5	817.7	817.6	1.4	1.4	-159.57	0.1	-789.8	806.5	803.7	2.83	285.138		
900.0	899.2	926.6	926.4	1.7	1.6	-159.49	4.3	-786.8	811.9	808.7	3.20	253.525		
1,000.0	998.6	1,027.0	1,026.7	1.9	1.8	-159.39	9.0	-783.4	818.3	814.7	3.57	229.450		
1,100.0	1,097.9	1,126.7	1,126.2	2.1	2.0	-159.34	13.7	-780.0	826.3	822.3	3.93	210.084		
1,200.0	1,197.0	1,226.3	1,225.6	2.4	2.2	-159.33	18.4	-776.6	834.8	830.5	4.31	193.908		
1,300.0	1,296.2	1,326.0	1,325.1	2.7	2.4	-159.31	23.1	-773.2	843.3	838.6	4.68	180.232		
1,400.0	1,395.4	1,425.6	1,424.6	2.9	2.6	-159.30	27.9	-769.8	851.9	846.8	5.05	168.531		
1,500.0	1,494.6	1,525.2	1,524.0	3.2	2.8	-159.29	32.6	-766.4	860.4	855.0	5.43	158.413		
1,600.0	1,593.8	1,624.9	1,623.5	3.5	3.0	-159.27	37.3	-763.0	868.9	863.1	5.81	149.583		
1,700.0	1,693.0	1,724.5	1,723.0	3.8	3.2	-159.26	42.0	-759.6	877.5	871.3	6.19	141.812		
1,800.0	1,792.1	1,824.1	1,822.4	4.0	3.4	-159.25	46.7	-756.3	886.0	879.4	6.57	134.924		
1,900.0	1,891.3	1,923.8	1,921.9	4.3	3.6	-159.24	51.4	-752.9	894.5	887.6	6.95	128.777		
2,000.0	1,990.5	2,023.4	2,021.4	4.6	3.8	-159.22	56.1	-749.5	903.1	895.7	7.33	123.259		
2,100.0	2,089.7	2,123.0	2,120.8	4.9	4.0	-159.21	60.8	-746.1	911.6	903.9	7.71	118.279		
2,200.0	2,188.9	2,222.7	2,220.3	5.1	4.2	-159.20	65.5	-742.7	920.1	912.0	8.09	113.763		
2,300.0	2,288.1	2,322.3	2,319.8	5.4	4.4	-159.19	70.2	-739.3	928.7	920.2	8.47	109.649		
2,400.0	2,387.2	2,421.9	2,419.2	5.7	4.6	-159.18	74.9	-735.9	937.2	928.4	8.85	105.886		
2,500.0	2,486.4	2,521.6	2,518.7	6.0	4.8	-159.17	79.6	-732.5	945.7	936.5	9.23	102.431		
2,600.0	2,585.6	2,621.2	2,618.2	6.3	5.0	-159.16	84.3	-729.1	954.3	944.7	9.62	99.248		
2,700.0	2,684.8	2,720.8	2,717.6	6.6	5.2	-159.15	89.0	-725.8	962.8	952.8	10.00	96.307		
2,800.0	2,784.0	2,820.5	2,817.1	6.8	5.4	-159.13	93.7	-722.4	971.3	961.0	10.38	93.581		
2,900.0	2,883.2	2,920.1	2,916.6	7.1	5.6	-159.12	98.5	-719.0	979.9	969.1	10.76	91.047		
3,000.0	2,982.3	3,019.8	3,016.0	7.4	5.8	-159.11	103.2	-715.6	988.4	977.3	11.15	88.686		
3,100.0	3,081.5	3,119.4	3,115.5	7.7	6.0	-159.10	107.9	-712.2	997.0	985.4	11.53	86.480	SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1D-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.24	-3.3	-782.1	782.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.24	-3.3	-782.1	782.2	781.8	0.35	2,240.703		
200.0	200.0	200.0	200.0	0.3	0.3	-90.24	-3.3	-782.1	782.2	781.5	0.70	1,120.351		
300.0	300.0	300.0	300.0	0.5	0.5	-90.24	-3.3	-782.1	782.2	781.1	1.05	746.901 CC		
327.8	327.8	327.8	327.8	0.6	0.6	-159.39	-3.3	-782.1	782.2	781.0	1.14	683.629		
400.0	400.0	400.0	400.0	0.7	0.7	-159.40	-3.3	-782.1	782.4	781.0	1.40	560.332 ES		
500.0	500.0	512.7	512.7	0.9	0.9	-159.40	-2.6	-781.2	783.2	781.4	1.77	443.062		
600.0	599.9	625.3	625.3	1.1	1.1	-159.36	-0.7	-778.5	784.0	781.9	2.14	366.217		
700.0	699.8	738.0	737.8	1.2	1.3	-159.28	2.4	-774.0	784.9	782.4	2.52	311.728		
800.0	799.5	850.7	850.2	1.4	1.5	-159.16	6.8	-767.6	785.7	782.8	2.90	270.936		
900.0	899.2	952.9	952.1	1.7	1.7	-159.03	11.6	-760.7	787.2	783.9	3.27	240.846		
1,000.0	998.6	1,052.9	1,051.7	1.9	2.0	-158.95	16.3	-754.0	790.2	786.6	3.64	217.335		
1,100.0	1,097.9	1,152.8	1,151.3	2.1	2.2	-158.92	21.0	-747.3	794.9	790.9	4.01	198.360		
1,200.0	1,197.0	1,252.6	1,250.8	2.4	2.4	-158.91	25.7	-740.6	800.1	795.7	4.38	182.536		
1,300.0	1,296.2	1,352.5	1,350.3	2.7	2.6	-158.90	30.3	-733.8	805.3	800.5	4.76	169.157		
1,400.0	1,395.4	1,452.4	1,449.9	2.9	2.8	-158.89	35.0	-727.1	810.5	805.4	5.14	157.708		
1,500.0	1,494.6	1,552.2	1,549.4	3.2	3.0	-158.88	39.7	-720.4	815.7	810.2	5.52	147.804		
1,600.0	1,593.8	1,652.1	1,648.9	3.5	3.3	-158.87	44.4	-713.7	820.9	815.0	5.90	139.156		
1,700.0	1,693.0	1,752.0	1,748.5	3.8	3.5	-158.87	49.1	-706.9	826.1	819.8	6.28	131.543		
1,800.0	1,792.1	1,851.8	1,848.0	4.0	3.7	-158.86	53.7	-700.2	831.3	824.7	6.66	124.790		
1,900.0	1,891.3	1,951.7	1,947.5	4.3	3.9	-158.85	58.4	-693.5	836.5	829.5	7.04	118.761		
2,000.0	1,990.5	2,051.5	2,047.0	4.6	4.2	-158.84	63.1	-686.8	841.7	834.3	7.43	113.347		
2,100.0	2,089.7	2,151.4	2,146.6	4.9	4.4	-158.84	67.8	-680.0	846.9	839.1	7.81	108.458		
2,200.0	2,188.9	2,251.3	2,246.1	5.1	4.6	-158.83	72.5	-673.3	852.1	843.9	8.19	104.023		
2,300.0	2,288.1	2,351.1	2,345.6	5.4	4.8	-158.82	77.1	-666.6	857.3	848.8	8.58	99.980		
2,400.0	2,387.2	2,451.0	2,445.1	5.7	5.0	-158.81	81.8	-659.9	862.6	853.6	8.96	96.281		
2,500.0	2,486.4	2,550.9	2,544.7	6.0	5.3	-158.81	86.5	-653.1	867.8	858.4	9.34	92.884		
2,600.0	2,585.6	2,650.7	2,644.2	6.3	5.5	-158.80	91.2	-646.4	873.0	863.2	9.73	89.753		
2,700.0	2,684.8	2,750.6	2,743.7	6.6	5.7	-158.79	95.9	-639.7	878.2	868.1	10.11	86.859		
2,800.0	2,784.0	2,850.5	2,843.3	6.8	5.9	-158.79	100.5	-633.0	883.4	872.9	10.49	84.175		
2,900.0	2,883.2	2,950.3	2,942.8	7.1	6.2	-158.78	105.2	-626.2	888.6	877.7	10.88	81.679		
3,000.0	2,982.3	3,050.2	3,042.3	7.4	6.4	-158.77	109.9	-619.5	893.8	882.5	11.26	79.354		
3,100.0	3,081.5	3,150.1	3,141.8	7.7	6.6	-158.76	114.6	-612.8	899.0	887.3	11.65	77.180		
3,200.0	3,180.7	3,249.9	3,241.4	8.0	6.8	-158.76	119.3	-606.1	904.2	892.2	12.03	75.146		
3,300.0	3,279.9	3,349.8	3,340.9	8.2	7.1	-158.75	123.9	-599.3	909.4	897.0	12.42	73.236		
3,400.0	3,379.1	3,449.6	3,440.4	8.5	7.3	-158.75	128.6	-592.6	914.6	901.8	12.80	71.441		
3,500.0	3,478.3	3,549.5	3,540.0	8.8	7.5	-158.74	133.3	-585.9	919.8	906.6	13.19	69.750		
3,600.0	3,577.4	3,649.4	3,639.5	9.1	7.7	-158.73	138.0	-579.1	925.0	911.5	13.57	68.155		
3,700.0	3,676.6	3,749.2	3,739.0	9.4	8.0	-158.73	142.7	-572.4	930.2	916.3	13.96	66.647		
3,800.0	3,775.8	3,849.1	3,838.5	9.7	8.2	-158.72	147.3	-565.7	935.4	921.1	14.34	65.220		
3,900.0	3,875.0	3,949.0	3,938.1	9.9	8.4	-158.71	152.0	-559.0	940.6	925.9	14.73	63.868		
4,000.0	3,974.2	4,048.8	4,037.6	10.2	8.6	-158.71	156.7	-552.2	945.8	930.7	15.11	62.584		
4,100.0	4,073.4	4,148.7	4,137.1	10.5	8.9	-158.70	161.4	-545.5	951.1	935.6	15.50	61.364		
4,200.0	4,172.5	4,248.6	4,236.6	10.8	9.1	-158.70	166.1	-538.8	956.3	940.4	15.88	60.202		
4,300.0	4,271.7	4,348.4	4,336.2	11.1	9.3	-158.69	170.7	-532.1	961.5	945.2	16.27	59.096		
4,400.0	4,370.9	4,448.3	4,435.7	11.4	9.5	-158.68	175.4	-525.3	966.7	950.0	16.66	58.040		
4,500.0	4,470.1	4,548.2	4,535.2	11.6	9.8	-158.68	180.1	-518.6	971.9	954.8	17.04	57.032		
4,600.0	4,569.3	4,648.0	4,634.8	11.9	10.0	-158.67	184.8	-511.9	977.1	959.7	17.43	56.069		
4,700.0	4,668.5	4,747.9	4,734.3	12.2	10.2	-158.67	189.5	-505.2	982.3	964.5	17.81	55.147		
4,800.0	4,767.6	4,847.7	4,833.8	12.5	10.4	-158.66	194.1	-498.4	987.5	969.3	18.20	54.264		
4,900.0	4,866.8	4,947.6	4,933.3	12.8	10.7	-158.66	198.8	-491.7	992.7	974.1	18.58	53.418		
5,000.0	4,966.0	5,047.5	5,032.9	13.1	10.9	-158.65	203.5	-485.0	997.9	978.9	18.97	52.606 SF		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1E-32H-B264 - 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	-90.27	-3.6	-772.4	772.4					
100.0	100.0	100.0	100.0	0.2	0.2	-90.27	-3.6	-772.4	772.4	772.0	0.35	2,212.659		
200.0	200.0	200.0	200.0	0.3	0.3	-90.27	-3.6	-772.4	772.4	771.7	0.70	1,106.329		
300.0	300.0	300.0	300.0	0.5	0.5	-90.27	-3.6	-772.4	772.4	771.3	1.05	737.553		
400.0	400.0	407.0	407.0	0.7	0.7	-159.42	-3.5	-772.1	772.3	770.9	1.41	548.363		
500.0	500.0	520.9	520.9	0.9	0.9	-159.40	-2.5	-770.0	772.2	770.4	1.78	433.235		
600.0	599.9	634.9	634.8	1.1	1.1	-159.36	-0.6	-765.9	771.8	769.7	2.16	357.682		
700.0	699.8	748.8	748.5	1.2	1.3	-159.31	2.2	-759.8	771.3	768.8	2.54	304.098		
800.0	799.5	862.7	862.0	1.4	1.6	-159.24	6.0	-751.6	770.6	767.7	2.92	263.966		
900.0	899.2	976.6	975.4	1.7	1.8	-159.15	10.8	-741.3	769.7	766.4	3.31	232.671		
979.7	978.4	1,059.0	1,057.2	1.8	2.0	-159.09	14.7	-732.9	769.3	765.7	3.61	213.293 CC		
1,000.0	998.6	1,079.3	1,077.4	1.9	2.1	-159.08	15.7	-730.8	769.3	765.6	3.68	208.971		
1,100.0	1,097.9	1,179.3	1,176.8	2.1	2.3	-159.04	20.4	-720.6	770.4	766.4	4.05	190.072		
1,200.0	1,197.0	1,279.3	1,276.1	2.4	2.6	-159.02	25.2	-710.3	772.1	767.7	4.43	174.294		
1,300.0	1,296.2	1,379.3	1,375.5	2.7	2.8	-159.01	30.0	-700.1	773.8	769.0	4.81	160.934		
1,400.0	1,395.4	1,479.3	1,474.8	2.9	3.1	-158.99	34.7	-689.8	775.5	770.3	5.19	149.486		
1,500.0	1,494.6	1,579.2	1,574.1	3.2	3.3	-158.98	39.5	-679.6	777.1	771.6	5.57	139.572		
1,600.0	1,593.8	1,679.2	1,673.5	3.5	3.6	-158.96	44.2	-669.3	778.8	772.9	5.95	130.908		
1,700.0	1,693.0	1,779.2	1,772.8	3.8	3.9	-158.95	49.0	-659.1	780.5	774.2	6.33	123.274		
1,800.0	1,792.1	1,879.2	1,872.2	4.0	4.1	-158.93	53.8	-648.9	782.2	775.5	6.71	116.498		
1,900.0	1,891.3	1,979.2	1,971.5	4.3	4.4	-158.91	58.5	-638.6	783.9	776.8	7.10	110.445		
2,000.0	1,990.5	2,079.2	2,070.9	4.6	4.6	-158.90	63.3	-628.4	785.6	778.1	7.48	105.006		
2,100.0	2,089.7	2,179.2	2,170.2	4.9	4.9	-158.88	68.0	-618.1	787.2	779.4	7.87	100.092		
2,200.0	2,188.9	2,279.1	2,269.6	5.1	5.2	-158.87	72.8	-607.9	788.9	780.7	8.25	95.632		
2,300.0	2,288.1	2,379.1	2,368.9	5.4	5.4	-158.85	77.6	-597.6	790.6	782.0	8.63	91.565		
2,400.0	2,387.2	2,479.1	2,468.3	5.7	5.7	-158.84	82.3	-587.4	792.3	783.3	9.02	87.843		
2,500.0	2,486.4	2,579.1	2,567.6	6.0	5.9	-158.82	87.1	-577.1	794.0	784.6	9.40	84.423		
2,600.0	2,585.6	2,679.1	2,666.9	6.3	6.2	-158.81	91.9	-566.9	795.6	785.9	9.79	81.270		
2,700.0	2,684.8	2,779.1	2,766.3	6.6	6.5	-158.79	96.6	-556.6	797.3	787.1	10.18	78.354		
2,800.0	2,784.0	2,879.1	2,865.6	6.8	6.7	-158.78	101.4	-546.4	799.0	788.4	10.56	75.650		
2,900.0	2,883.2	2,979.0	2,965.0	7.1	7.0	-158.76	106.1	-536.1	800.7	789.7	10.95	73.135		
3,000.0	2,982.3	3,079.0	3,064.3	7.4	7.2	-158.75	110.9	-525.9	802.4	791.0	11.33	70.791		
3,100.0	3,081.5	3,179.0	3,163.7	7.7	7.5	-158.73	115.7	-515.6	804.1	792.3	11.72	68.600		
3,200.0	3,180.7	3,279.0	3,263.0	8.0	7.8	-158.72	120.4	-505.4	805.7	793.6	12.11	66.548		
3,300.0	3,279.9	3,379.0	3,362.4	8.2	8.0	-158.70	125.2	-495.1	807.4	794.9	12.49	64.622		
3,400.0	3,379.1	3,479.0	3,461.7	8.5	8.3	-158.69	129.9	-484.9	809.1	796.2	12.88	62.811		
3,500.0	3,478.3	3,579.0	3,561.0	8.8	8.6	-158.67	134.7	-474.7	810.8	797.5	13.27	61.105		
3,600.0	3,577.4	3,678.9	3,660.4	9.1	8.8	-158.66	139.5	-464.4	812.5	798.8	13.66	59.496		
3,700.0	3,676.6	3,778.9	3,759.7	9.4	9.1	-158.65	144.2	-454.2	814.1	800.1	14.04	57.974		
3,800.0	3,775.8	3,878.9	3,859.1	9.7	9.3	-158.63	149.0	-443.9	815.8	801.4	14.43	56.534		
3,900.0	3,875.0	3,978.9	3,958.4	9.9	9.6	-158.62	153.7	-433.7	817.5	802.7	14.82	55.169		
4,000.0	3,974.2	4,078.9	4,057.8	10.2	9.9	-158.60	158.5	-423.4	819.2	804.0	15.21	53.872		
4,100.0	4,073.4	4,178.9	4,157.1	10.5	10.1	-158.59	163.3	-413.2	820.9	805.3	15.59	52.640		
4,200.0	4,172.5	4,278.9	4,256.5	10.8	10.4	-158.57	168.0	-402.9	822.6	806.6	15.98	51.468		
4,300.0	4,271.7	4,378.8	4,355.8	11.1	10.7	-158.56	172.8	-392.7	824.2	807.9	16.37	50.350		
4,400.0	4,370.9	4,478.8	4,455.2	11.4	10.9	-158.55	177.6	-382.4	825.9	809.2	16.76	49.284		
4,500.0	4,470.1	4,578.8	4,554.5	11.6	11.2	-158.53	182.3	-372.2	827.6	810.5	17.15	48.266		
4,600.0	4,569.3	4,678.8	4,653.8	11.9	11.5	-158.52	187.1	-361.9	829.3	811.8	17.54	47.293		
4,700.0	4,668.5	4,778.8	4,753.2	12.2	11.7	-158.50	191.8	-351.7	831.0	813.0	17.92	46.362		
4,800.0	4,767.6	4,878.8	4,852.5	12.5	12.0	-158.49	196.6	-341.4	832.7	814.3	18.31	45.470		
4,900.0	4,866.8	4,978.8	4,951.9	12.8	12.2	-158.48	201.4	-331.2	834.3	815.6	18.70	44.615		
5,000.0	4,966.0	5,078.7	5,051.2	13.1	12.5	-158.46	206.1	-321.0	836.0	816.9	19.09	43.794		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1E-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,065.2	5,178.7	5,150.6	13.3	12.8	-158.45	210.9	-310.7	837.7	818.2	19.48	43.006		
5,200.0	5,164.4	5,278.7	5,249.9	13.6	13.0	-158.44	215.6	-300.5	839.4	819.5	19.87	42.249		
5,300.0	5,263.6	5,378.7	5,349.3	13.9	13.3	-158.42	220.4	-290.2	841.1	820.8	20.26	41.521		
5,400.0	5,362.7	5,478.7	5,448.6	14.2	13.6	-158.41	225.2	-280.0	842.8	822.1	20.65	40.819		
5,500.0	5,461.9	5,578.7	5,548.0	14.5	13.8	-158.40	229.9	-269.7	844.4	823.4	21.04	40.144		
5,600.0	5,561.1	5,678.7	5,647.3	14.8	14.1	-158.38	234.7	-259.5	846.1	824.7	21.42	39.493		
5,700.0	5,660.3	5,778.6	5,746.6	15.0	14.4	-158.37	239.4	-249.2	847.8	826.0	21.81	38.865		
5,800.0	5,759.5	5,878.6	5,846.0	15.3	14.6	-158.36	244.2	-239.0	849.5	827.3	22.20	38.259		
5,900.0	5,858.7	5,978.6	5,945.3	15.6	14.9	-158.34	249.0	-228.7	851.2	828.6	22.59	37.674		
6,000.0	5,957.8	6,078.6	6,044.7	15.9	15.1	-158.33	253.7	-218.5	852.9	829.9	22.98	37.108		
6,100.0	6,057.0	6,178.6	6,144.0	16.2	15.4	-158.32	258.5	-208.2	854.5	831.2	23.37	36.562		
6,200.0	6,156.2	6,279.2	6,244.0	16.5	15.7	-158.35	262.6	-197.9	856.2	832.5	23.74	36.063		
6,300.0	6,255.4	6,379.8	6,343.8	16.7	15.9	-159.09	256.1	-187.6	857.8	833.9	23.92	35.860		
6,400.0	6,354.6	6,475.5	6,437.0	17.0	16.0	-160.65	236.9	-178.0	859.7	835.8	23.91	35.953		
6,500.0	6,453.8	6,563.7	6,519.9	17.3	16.0	-178.11	208.2	-169.5	863.1	839.3	23.81	36.246		
6,600.0	6,552.8	6,650.0	6,597.1	17.5	16.1	127.10	170.5	-161.5	868.2	844.5	23.69	36.651		
6,700.0	6,650.1	6,727.5	6,662.1	17.7	16.2	105.98	128.9	-154.8	874.6	850.9	23.69	36.921		
6,800.0	6,743.7	6,805.6	6,722.7	17.8	16.2	96.20	80.1	-148.6	881.8	857.9	23.83	36.996		
6,900.0	6,831.8	6,881.7	6,776.3	17.9	16.4	90.29	26.5	-143.0	889.4	865.2	24.19	36.771		
7,000.0	6,912.7	6,956.2	6,823.0	18.0	16.5	86.18	-31.3	-138.2	897.0	872.3	24.63	36.414		
7,100.0	6,984.9	7,029.5	6,862.9	18.2	16.8	83.13	-92.6	-134.1	904.2	879.0	25.25	35.804		
7,200.0	7,046.8	7,100.0	6,895.2	18.4	17.0	80.84	-155.2	-130.8	910.7	884.8	25.97	35.074		
7,300.0	7,097.4	7,173.2	6,922.1	18.8	17.4	79.08	-223.1	-128.0	916.3	889.5	26.80	34.185		
7,400.0	7,135.6	7,250.0	6,942.8	19.3	17.9	77.81	-297.0	-125.9	920.6	892.8	27.75	33.172		
7,500.0	7,160.7	7,314.5	6,954.0	19.8	18.4	77.06	-360.6	-124.7	923.4	894.7	28.68	32.199		
7,600.0	7,172.2	7,384.8	6,959.6	20.6	18.9	76.71	-430.6	-124.1	924.7	895.0	29.74	31.090		
7,700.0	7,173.0	7,475.0	6,960.0	21.4	19.7	76.68	-520.8	-124.1	924.8	893.2	31.60	29.271		
7,800.0	7,173.0	7,575.0	6,960.0	22.3	20.7	76.68	-620.8	-124.1	924.8	890.9	33.96	27.230		
7,900.0	7,173.0	7,675.0	6,960.0	23.3	21.8	76.68	-720.8	-124.1	924.8	888.3	36.50	25.340		
8,000.0	7,173.0	7,775.0	6,960.0	24.5	23.0	76.68	-820.8	-124.1	924.8	885.7	39.16	23.614		
8,100.0	7,173.0	7,875.0	6,960.0	25.6	24.3	76.68	-920.8	-124.1	924.8	882.9	41.94	22.051		
8,200.0	7,173.0	7,975.0	6,960.0	26.9	25.6	76.68	-1,020.8	-124.1	924.8	880.0	44.81	20.641		
8,300.0	7,173.0	8,075.0	6,960.0	28.2	26.9	76.68	-1,120.8	-124.1	924.8	877.1	47.74	19.371		
8,400.0	7,173.0	8,175.0	6,960.0	29.5	28.3	76.68	-1,220.8	-124.1	924.8	874.1	50.74	18.227		
8,500.0	7,173.0	8,275.0	6,960.0	30.9	29.8	76.68	-1,320.8	-124.1	924.8	871.1	53.79	17.195		
8,600.0	7,173.0	8,375.0	6,960.0	32.3	31.2	76.68	-1,420.8	-124.1	924.8	868.0	56.88	16.261		
8,700.0	7,173.0	8,475.0	6,960.0	33.8	32.7	76.68	-1,520.8	-124.1	924.8	864.8	60.00	15.414		
8,800.0	7,173.0	8,575.0	6,960.0	35.3	34.3	76.68	-1,620.8	-124.1	924.9	861.7	63.15	14.644		
8,900.0	7,173.0	8,675.0	6,960.0	36.8	35.8	76.68	-1,720.8	-124.1	924.9	858.5	66.33	13.942		
9,000.0	7,173.0	8,775.0	6,960.0	38.3	37.4	76.68	-1,820.8	-124.1	924.9	855.3	69.54	13.300		
9,100.0	7,173.0	8,875.0	6,960.0	39.9	38.9	76.68	-1,920.8	-124.1	924.9	852.1	72.76	12.711		
9,200.0	7,173.0	8,975.0	6,960.0	41.4	40.5	76.69	-2,020.8	-124.1	924.9	848.9	76.00	12.170		
9,300.0	7,173.0	9,075.0	6,960.0	43.0	42.1	76.69	-2,120.8	-124.2	924.9	845.6	79.25	11.670		
9,400.0	7,173.0	9,175.0	6,960.0	44.6	43.8	76.69	-2,220.8	-124.2	924.9	842.4	82.52	11.208		
9,500.0	7,173.0	9,275.0	6,960.0	46.2	45.4	76.69	-2,320.8	-124.2	924.9	839.1	85.80	10.780		
9,600.0	7,173.0	9,375.0	6,960.0	47.8	47.0	76.69	-2,420.8	-124.2	924.9	835.8	89.08	10.382		
9,700.0	7,173.0	9,475.0	6,960.0	49.4	48.7	76.69	-2,520.8	-124.2	924.9	832.5	92.38	10.012		
9,800.0	7,173.0	9,575.0	6,960.0	51.1	50.3	76.69	-2,620.8	-124.2	924.9	829.2	95.69	9.666		
9,900.0	7,173.0	9,675.0	6,960.0	52.7	52.0	76.69	-2,720.8	-124.2	924.9	825.9	99.00	9.342		
10,000.0	7,173.0	9,775.0	6,960.0	54.4	53.7	76.69	-2,820.8	-124.2	924.9	822.6	102.32	9.039		
10,100.0	7,173.0	9,875.0	6,960.0	56.0	55.3	76.69	-2,920.8	-124.2	924.9	819.2	105.65	8.755		
10,200.0	7,173.0	9,975.0	6,960.0	57.7	57.0	76.69	-3,020.8	-124.2	924.9	815.9	108.98	8.487		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1E-32H-B264 - 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	7,173.0	10,075.0	6,960.0	59.3	58.7	76.69	-3,120.8	-124.2	924.9	812.6	112.31	8.235		
10,400.0	7,173.0	10,175.0	6,960.0	61.0	60.4	76.69	-3,220.8	-124.2	924.9	809.2	115.66	7.997		
10,500.0	7,173.0	10,275.0	6,960.0	62.7	62.1	76.69	-3,320.8	-124.2	924.9	805.9	119.00	7.772		
10,600.0	7,173.0	10,375.0	6,960.0	64.3	63.7	76.69	-3,420.8	-124.2	924.9	802.6	122.35	7.560		
10,700.0	7,173.0	10,475.0	6,960.0	66.0	65.4	76.69	-3,520.8	-124.2	924.9	799.2	125.70	7.358		
10,800.0	7,173.0	10,575.0	6,960.0	67.7	67.1	76.69	-3,620.8	-124.2	924.9	795.9	129.06	7.167		
10,900.0	7,173.0	10,675.0	6,960.0	69.4	68.8	76.69	-3,720.8	-124.2	924.9	792.5	132.42	6.985		
11,000.0	7,173.0	10,775.0	6,960.0	71.1	70.5	76.69	-3,820.8	-124.2	924.9	789.1	135.78	6.812		
11,100.0	7,173.0	10,875.0	6,960.0	72.8	72.3	76.69	-3,920.8	-124.2	924.9	785.8	139.14	6.647		
11,200.0	7,173.0	10,975.0	6,960.0	74.5	74.0	76.69	-4,020.8	-124.2	924.9	782.4	142.51	6.490		
11,300.0	7,173.0	11,075.0	6,960.0	76.2	75.7	76.69	-4,120.8	-124.2	924.9	779.0	145.88	6.340		
11,400.0	7,173.0	11,175.0	6,960.0	77.9	77.4	76.69	-4,220.8	-124.2	924.9	775.7	149.25	6.197		
11,500.0	7,173.0	11,275.0	6,960.0	79.6	79.1	76.69	-4,320.8	-124.2	924.9	772.3	152.62	6.060		
11,600.0	7,173.0	11,375.0	6,960.0	81.3	80.8	76.69	-4,420.8	-124.2	924.9	768.9	156.00	5.929		
11,700.0	7,173.0	11,475.0	6,960.0	83.0	82.5	76.69	-4,520.8	-124.2	924.9	765.6	159.38	5.804		
11,721.0	7,173.0	11,496.1	6,960.0	83.4	82.9	76.69	-4,541.8	-124.2	924.9	764.9	160.09	5.778		
11,743.2	7,173.0	11,512.8	6,960.0	83.8	83.2	76.69	-4,558.6	-124.2	925.0	764.2	160.74	5.754 ES, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1F-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.27	-3.6	-762.3	762.3					
100.0	100.0	100.0	100.0	0.2	0.2	-90.27	-3.6	-762.3	762.3	761.9	0.35	2,183.809		
200.0	200.0	200.0	200.0	0.3	0.3	-90.27	-3.6	-762.3	762.3	761.6	0.70	1,091.904		
300.0	300.0	314.4	314.4	0.5	0.5	-90.24	-3.2	-761.2	761.3	760.3	1.07	709.331		
400.0	400.0	428.7	428.7	0.7	0.8	-159.32	-2.1	-758.0	758.7	757.3	1.45	524.188		
500.0	500.0	542.9	542.7	0.9	1.0	-159.25	-0.3	-752.6	755.6	753.8	1.82	414.374		
600.0	599.9	657.1	656.6	1.1	1.2	-159.17	2.3	-745.1	752.3	750.1	2.20	341.657		
700.0	699.8	771.1	770.2	1.2	1.5	-159.09	5.7	-735.4	748.7	746.1	2.58	289.798		
800.0	799.5	885.1	883.5	1.4	1.8	-159.01	9.7	-723.6	744.9	741.9	2.97	250.828		
900.0	899.2	997.9	995.3	1.7	2.1	-158.93	14.5	-709.9	740.8	737.4	3.36	220.528		
1,000.0	998.6	1,097.8	1,094.3	1.9	2.3	-158.88	18.9	-696.9	737.5	733.8	3.73	197.814		
1,100.0	1,097.9	1,197.8	1,193.3	2.1	2.6	-158.87	23.4	-683.9	735.9	731.8	4.10	179.432		
1,200.0	1,197.0	1,297.8	1,292.4	2.4	2.9	-158.87	27.9	-670.9	734.8	730.3	4.48	164.096		
1,300.0	1,296.2	1,397.8	1,391.4	2.7	3.2	-158.88	32.4	-657.9	733.7	728.9	4.86	151.099		
1,400.0	1,395.4	1,497.8	1,490.5	2.9	3.5	-158.88	36.9	-644.9	732.6	727.4	5.23	139.952		
1,500.0	1,494.6	1,597.8	1,589.5	3.2	3.8	-158.88	41.4	-631.9	731.5	725.9	5.61	130.292		
1,600.0	1,593.8	1,697.8	1,688.6	3.5	4.1	-158.89	45.8	-618.9	730.5	724.5	6.00	121.843		
1,700.0	1,693.0	1,797.8	1,787.6	3.8	4.4	-158.89	50.3	-605.9	729.4	723.0	6.38	114.393		
1,800.0	1,792.1	1,897.8	1,886.7	4.0	4.7	-158.89	54.8	-592.9	728.3	721.5	6.76	107.777		
1,900.0	1,891.3	1,997.8	1,985.7	4.3	4.9	-158.90	59.3	-579.9	727.2	720.0	7.14	101.862		
2,000.0	1,990.5	2,097.8	2,084.7	4.6	5.2	-158.90	63.8	-566.9	726.1	718.6	7.52	96.544		
2,100.0	2,089.7	2,197.8	2,183.8	4.9	5.5	-158.91	68.3	-553.9	725.0	717.1	7.90	91.737		
2,200.0	2,188.9	2,297.8	2,282.8	5.1	5.8	-158.91	72.7	-540.9	723.9	715.6	8.29	87.371		
2,300.0	2,288.1	2,397.8	2,381.9	5.4	6.1	-158.91	77.2	-527.9	722.8	714.2	8.67	83.389		
2,400.0	2,387.2	2,497.7	2,480.9	5.7	6.4	-158.92	81.7	-514.9	721.7	712.7	9.05	79.742		
2,500.0	2,486.4	2,597.7	2,580.0	6.0	6.7	-158.92	86.2	-501.9	720.7	711.2	9.43	76.390		
2,600.0	2,585.6	2,697.7	2,679.0	6.3	7.0	-158.93	90.7	-488.9	719.6	709.8	9.82	73.299		
2,700.0	2,684.8	2,797.7	2,778.1	6.6	7.3	-158.93	95.1	-475.9	718.5	708.3	10.20	70.439		
2,800.0	2,784.0	2,897.7	2,877.1	6.8	7.6	-158.93	99.6	-462.9	717.4	706.8	10.58	67.786		
2,900.0	2,883.2	2,997.7	2,976.1	7.1	7.9	-158.94	104.1	-449.9	716.3	705.3	10.97	65.318		
3,000.0	2,982.3	3,097.7	3,075.2	7.4	8.2	-158.94	108.6	-436.9	715.2	703.9	11.35	63.016		
3,100.0	3,081.5	3,197.7	3,174.2	7.7	8.5	-158.95	113.1	-423.9	714.1	702.4	11.73	60.864		
3,200.0	3,180.7	3,297.7	3,273.3	8.0	8.8	-158.95	117.6	-410.9	713.0	700.9	12.12	58.849		
3,300.0	3,279.9	3,397.7	3,372.3	8.2	9.1	-158.95	122.0	-397.9	712.0	699.5	12.50	56.956		
3,400.0	3,379.1	3,497.7	3,471.4	8.5	9.4	-158.96	126.5	-384.9	710.9	698.0	12.88	55.177		
3,500.0	3,478.3	3,597.7	3,570.4	8.8	9.7	-158.96	131.0	-371.9	709.8	696.5	13.27	53.500		
3,600.0	3,577.4	3,697.7	3,669.5	9.1	10.0	-158.97	135.5	-358.9	708.7	695.0	13.65	51.917		
3,700.0	3,676.6	3,797.7	3,768.5	9.4	10.3	-158.97	140.0	-345.9	707.6	693.6	14.03	50.420		
3,800.0	3,775.8	3,897.7	3,867.5	9.7	10.6	-158.97	144.5	-332.9	706.5	692.1	14.42	49.004		
3,900.0	3,875.0	3,997.7	3,966.6	9.9	10.9	-158.98	148.9	-319.9	705.4	690.6	14.80	47.660		
4,000.0	3,974.2	4,097.6	4,065.6	10.2	11.2	-158.98	153.4	-306.9	704.3	689.2	15.18	46.384		
4,100.0	4,073.4	4,197.6	4,164.7	10.5	11.5	-158.99	157.9	-293.9	703.2	687.7	15.57	45.172		
4,200.0	4,172.5	4,297.6	4,263.7	10.8	11.8	-158.99	162.4	-280.9	702.2	686.2	15.95	44.017		
4,300.0	4,271.7	4,397.6	4,362.8	11.1	12.1	-158.99	166.9	-267.9	701.1	684.7	16.34	42.917		
4,400.0	4,370.9	4,497.6	4,461.8	11.4	12.4	-159.00	171.3	-254.9	700.0	683.3	16.72	41.867		
4,500.0	4,470.1	4,597.6	4,560.9	11.6	12.7	-159.00	175.8	-241.9	698.9	681.8	17.10	40.865		
4,600.0	4,569.3	4,697.6	4,659.9	11.9	13.0	-159.01	180.3	-228.9	697.8	680.3	17.49	39.906		
4,700.0	4,668.5	4,797.6	4,758.9	12.2	13.3	-159.01	184.8	-215.9	696.7	678.9	17.87	38.989		
4,800.0	4,767.6	4,897.6	4,858.0	12.5	13.6	-159.01	189.3	-202.9	695.6	677.4	18.25	38.110		
4,900.0	4,866.8	4,997.6	4,957.0	12.8	13.9	-159.02	193.8	-189.9	694.5	675.9	18.64	37.267		
5,000.0	4,966.0	5,097.6	5,056.1	13.1	14.2	-159.02	198.2	-176.9	693.5	674.4	19.02	36.458		
5,100.0	5,065.2	5,197.6	5,155.1	13.3	14.5	-159.03	202.7	-163.9	692.4	673.0	19.40	35.682		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1F-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,164.4	5,297.6	5,254.2	13.6	14.8	-159.03	207.2	-150.9	691.3	671.5	19.79	34.935		
5,300.0	5,263.6	5,397.6	5,353.2	13.9	15.1	-159.04	211.7	-137.9	690.2	670.0	20.17	34.217		
5,400.0	5,362.7	5,497.6	5,452.3	14.2	15.3	-159.04	216.2	-124.9	689.1	668.6	20.55	33.526		
5,500.0	5,461.9	5,597.6	5,551.3	14.5	15.6	-159.04	220.7	-112.0	688.0	667.1	20.94	32.860		
5,600.0	5,561.1	5,697.6	5,650.3	14.8	15.9	-159.05	225.1	-99.0	686.9	665.6	21.32	32.218		
5,700.0	5,660.3	5,797.5	5,749.4	15.0	16.2	-159.05	229.6	-86.0	685.8	664.1	21.70	31.598		
5,800.0	5,759.5	5,897.5	5,848.4	15.3	16.5	-159.06	234.1	-73.0	684.8	662.7	22.09	31.001		
5,900.0	5,858.7	5,997.5	5,947.5	15.6	16.8	-159.06	238.6	-60.0	683.7	661.2	22.47	30.423		
6,000.0	5,957.8	6,097.5	6,046.5	15.9	17.1	-159.07	243.1	-47.0	682.6	659.7	22.86	29.865		
6,100.0	6,057.0	6,197.5	6,145.6	16.2	17.4	-159.07	247.5	-34.0	681.5	658.3	23.24	29.326		
6,200.0	6,156.2	6,297.5	6,244.6	16.5	17.7	-159.07	252.0	-21.0	680.4	656.8	23.62	28.804		
6,300.0	6,255.4	6,397.5	6,343.7	16.7	18.0	-159.08	256.5	-8.0	679.3	655.3	24.01	28.299		
6,400.0	6,354.6	6,497.6	6,442.7	17.0	18.3	-159.09	260.9	5.0	678.2	653.8	24.39	27.812		
6,500.0	6,453.8	6,597.1	6,541.3	17.3	18.6	-175.01	256.8	18.0	677.2	652.6	24.57	27.558		
6,600.0	6,552.8	6,694.8	6,636.6	17.5	18.8	131.85	239.4	30.5	676.3	651.7	24.57	27.521		
6,700.0	6,650.1	6,791.0	6,727.2	17.7	18.9	112.14	209.7	42.4	675.6	651.1	24.50	27.579		
6,800.0	6,743.7	6,885.8	6,811.9	17.8	19.0	103.74	168.7	53.5	675.1	650.7	24.42	27.643		
6,900.0	6,831.8	6,979.4	6,889.5	17.9	19.1	99.09	117.6	63.7	674.9	650.4	24.44	27.617		
7,000.0	6,912.7	7,071.9	6,959.0	18.0	19.3	96.10	57.4	72.8	674.7	650.1	24.61	27.418		
7,076.3	6,968.7	7,141.8	7,006.2	18.1	19.4	94.45	6.1	79.0	674.7	649.8	24.89	27.103 CC		
7,100.0	6,984.9	7,163.4	7,019.7	18.2	19.5	94.01	-10.6	80.8	674.7	649.7	24.99	26.998		
7,200.0	7,046.8	7,254.2	7,071.0	18.4	19.7	92.51	-85.1	87.5	674.7	649.1	25.63	26.322		
7,300.0	7,097.4	7,344.3	7,112.2	18.8	20.1	91.43	-165.0	92.9	674.8	648.3	26.55	25.419		
7,400.0	7,135.6	7,434.0	7,143.0	19.3	20.5	90.67	-249.0	96.9	674.9	647.2	27.73	24.339		
7,500.0	7,160.7	7,523.3	7,163.1	19.8	21.0	90.21	-336.0	99.6	675.0	645.8	29.15	23.156		
7,600.0	7,172.2	7,612.4	7,172.4	20.6	21.6	90.01	-424.5	100.8	675.0	644.2	30.77	21.934		
7,675.2	7,174.4	7,683.9	7,173.0	21.2	22.2	89.88	-496.0	100.8	675.2	642.9	32.31	20.899		
7,700.0	7,173.0	7,708.6	7,173.0	21.4	22.4	90.00	-520.8	100.8	675.0	642.2	32.84	20.555		
7,800.0	7,173.0	7,808.6	7,173.0	22.3	23.3	90.00	-620.8	100.8	675.0	639.8	35.24	19.157		
7,900.0	7,173.0	7,908.6	7,173.0	23.3	24.3	90.00	-720.8	100.8	675.0	637.2	37.81	17.854		
8,000.0	7,173.0	8,008.6	7,173.0	24.5	25.3	90.00	-820.8	100.8	675.0	634.5	40.52	16.659		
8,100.0	7,173.0	8,108.6	7,173.0	25.6	26.5	90.00	-920.8	100.8	675.0	631.7	43.35	15.573		
8,200.0	7,173.0	8,208.6	7,173.0	26.9	27.7	90.00	-1,020.8	100.8	675.0	628.8	46.27	14.590		
8,300.0	7,173.0	8,308.6	7,173.0	28.2	28.9	90.00	-1,120.8	100.8	675.0	625.8	49.26	13.703		
8,400.0	7,173.0	8,408.6	7,173.0	29.5	30.2	90.00	-1,220.8	100.8	675.0	622.7	52.32	12.901		
8,500.0	7,173.0	8,508.6	7,173.0	30.9	31.6	90.00	-1,320.8	100.8	675.0	619.6	55.44	12.177		
8,600.0	7,173.0	8,608.6	7,173.0	32.3	33.0	90.00	-1,420.8	100.8	675.0	616.4	58.59	11.521		
8,700.0	7,173.0	8,708.6	7,173.0	33.8	34.4	90.00	-1,520.8	100.8	675.0	613.2	61.79	10.925		
8,800.0	7,173.0	8,808.6	7,173.0	35.3	35.9	90.00	-1,620.8	100.8	675.0	610.0	65.02	10.382		
8,900.0	7,173.0	8,908.6	7,173.0	36.8	37.3	90.00	-1,720.8	100.8	675.0	606.8	68.27	9.887		
9,000.0	7,173.0	9,008.6	7,173.0	38.3	38.8	90.00	-1,820.8	100.8	675.0	603.5	71.55	9.434		
9,100.0	7,173.0	9,108.6	7,173.0	39.9	40.4	90.00	-1,920.8	100.8	675.0	600.2	74.85	9.018		
9,200.0	7,173.0	9,208.6	7,173.0	41.4	41.9	90.00	-2,020.8	100.8	675.1	596.9	78.17	8.635		
9,300.0	7,173.0	9,308.6	7,173.0	43.0	43.5	90.00	-2,120.8	100.8	675.1	593.5	81.51	8.282		
9,400.0	7,173.0	9,408.6	7,173.0	44.6	45.0	90.00	-2,220.8	100.8	675.1	590.2	84.85	7.955		
9,500.0	7,173.0	9,508.6	7,173.0	46.2	46.6	90.00	-2,320.8	100.8	675.1	586.8	88.22	7.652		
9,600.0	7,173.0	9,608.6	7,173.0	47.8	48.2	90.00	-2,420.8	100.8	675.1	583.5	91.59	7.371		
9,700.0	7,173.0	9,708.6	7,173.0	49.4	49.8	90.00	-2,520.8	100.8	675.1	580.1	94.97	7.108		
9,800.0	7,173.0	9,808.6	7,173.0	51.1	51.4	90.00	-2,620.8	100.8	675.1	576.7	98.36	6.863		
9,900.0	7,173.0	9,908.6	7,173.0	52.7	53.1	90.00	-2,720.8	100.8	675.1	573.3	101.76	6.634		
10,000.0	7,173.0	10,008.6	7,173.0	54.4	54.7	90.00	-2,820.8	100.8	675.1	569.9	105.16	6.419		
10,100.0	7,173.0	10,108.6	7,173.0	56.0	56.3	90.00	-2,920.8	100.8	675.1	566.5	108.58	6.218		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1F-32H-B264 - 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	7,173.0	10,208.6	7,173.0	57.7	58.0	90.00	-3,020.8	100.8	675.1	563.1	111.99	6.028		
10,300.0	7,173.0	10,308.6	7,173.0	59.3	59.6	90.00	-3,120.8	100.8	675.1	559.7	115.42	5.849		
10,400.0	7,173.0	10,408.6	7,173.0	61.0	61.3	90.00	-3,220.8	100.8	675.1	556.2	118.85	5.680		
10,500.0	7,173.0	10,508.6	7,173.0	62.7	63.0	90.00	-3,320.8	100.8	675.1	552.8	122.28	5.521		
10,600.0	7,173.0	10,608.6	7,173.0	64.3	64.6	90.00	-3,420.8	100.8	675.1	549.4	125.72	5.370		
10,700.0	7,173.0	10,708.6	7,173.0	66.0	66.3	90.00	-3,520.8	100.8	675.1	545.9	129.16	5.227		
10,800.0	7,173.0	10,808.6	7,173.0	67.7	68.0	90.00	-3,620.8	100.8	675.1	542.5	132.60	5.091		
10,900.0	7,173.0	10,908.6	7,173.0	69.4	69.7	90.00	-3,720.8	100.7	675.1	539.1	136.05	4.962		
11,000.0	7,173.0	11,008.6	7,173.0	71.1	71.4	90.00	-3,820.8	100.7	675.1	535.6	139.50	4.839		
11,100.0	7,173.0	11,108.6	7,173.0	72.8	73.0	90.00	-3,920.8	100.7	675.1	532.2	142.95	4.723		
11,200.0	7,173.0	11,208.6	7,173.0	74.5	74.7	90.00	-4,020.8	100.7	675.1	528.7	146.41	4.611		
11,300.0	7,173.0	11,308.6	7,173.0	76.2	76.4	90.00	-4,120.8	100.7	675.1	525.2	149.87	4.505		
11,400.0	7,173.0	11,408.6	7,173.0	77.9	78.1	90.00	-4,220.8	100.7	675.1	521.8	153.33	4.403		
11,500.0	7,173.0	11,508.6	7,173.0	79.6	79.8	90.00	-4,320.8	100.7	675.1	518.3	156.79	4.306		
11,600.0	7,173.0	11,608.6	7,173.0	81.3	81.5	90.00	-4,420.8	100.7	675.1	514.9	160.26	4.213		
11,700.0	7,173.0	11,708.6	7,173.0	83.0	83.2	90.00	-4,520.8	100.7	675.1	511.4	163.72	4.124		
11,721.7	7,173.0	11,730.3	7,173.0	83.4	83.6	90.00	-4,542.4	100.7	675.1	510.7	164.47	4.105		
11,743.2	7,173.0	11,747.9	7,173.0	83.8	83.9	90.00	-4,560.0	100.7	675.1	510.0	165.15	4.088 ES, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1G-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-88.92	0.4	-20.1	20.1					
100.0	100.0	100.0	100.0	0.2	0.2	-88.92	0.4	-20.1	20.1	19.8	0.35	57.710		
200.0	200.0	200.0	200.0	0.3	0.3	-88.92	0.4	-20.1	20.1	19.4	0.70	28.855		
300.0	300.0	300.0	300.0	0.5	0.5	-88.92	0.4	-20.1	20.1	19.1	1.05	19.237 CC		
327.8	327.8	327.8	327.8	0.6	0.6	-158.10	0.4	-20.1	20.2	19.0	1.14	17.631		
400.0	400.0	400.0	400.0	0.7	0.7	-158.30	0.4	-20.1	20.3	19.0	1.40	14.573 ES		
500.0	500.0	500.1	500.1	0.9	0.9	-159.61	0.5	-20.0	21.8	20.1	1.75	12.496		
600.0	599.9	600.4	600.4	1.1	1.0	-159.82	1.7	-18.6	23.7	21.6	2.10	11.330		
700.0	699.8	700.7	700.6	1.2	1.2	-158.83	3.9	-16.0	26.0	23.5	2.45	10.608		
800.0	799.5	801.0	800.8	1.4	1.4	-156.98	7.4	-12.0	28.5	25.7	2.81	10.161		
900.0	899.2	901.2	900.7	1.7	1.6	-154.73	11.8	-6.8	31.6	28.4	3.18	9.938		
1,000.0	998.6	1,001.1	1,000.4	1.9	1.8	-153.82	16.4	-1.4	36.0	32.5	3.55	10.142		
1,100.0	1,097.9	1,100.9	1,100.0	2.1	2.0	-154.17	21.1	4.0	42.0	38.1	3.93	10.696		
1,200.0	1,197.0	1,200.7	1,199.5	2.4	2.2	-154.75	25.7	9.4	48.5	44.2	4.30	11.272		
1,300.0	1,296.2	1,300.5	1,299.0	2.7	2.4	-155.19	30.3	14.8	55.1	50.4	4.68	11.753		
1,400.0	1,395.4	1,400.3	1,398.6	2.9	2.6	-155.54	34.9	20.2	61.6	56.5	5.06	12.160		
1,500.0	1,494.6	1,500.1	1,498.1	3.2	2.8	-155.82	39.5	25.5	68.1	62.7	5.45	12.509		
1,600.0	1,593.8	1,599.8	1,597.6	3.5	3.1	-156.06	44.1	30.9	74.7	68.8	5.83	12.811		
1,700.0	1,693.0	1,699.6	1,697.2	3.8	3.3	-156.25	48.7	36.3	81.2	75.0	6.21	13.075		
1,800.0	1,792.1	1,799.4	1,796.7	4.0	3.5	-156.42	53.4	41.7	87.7	81.1	6.59	13.308		
1,900.0	1,891.3	1,899.2	1,896.2	4.3	3.7	-156.56	58.0	47.1	94.3	87.3	6.98	13.515		
2,000.0	1,990.5	1,999.0	1,995.8	4.6	3.9	-156.69	62.6	52.5	100.8	93.5	7.36	13.700		
2,100.0	2,089.7	2,098.8	2,095.3	4.9	4.1	-156.80	67.2	57.9	107.4	99.6	7.74	13.866		
2,200.0	2,188.9	2,198.6	2,194.8	5.1	4.3	-156.89	71.8	63.2	113.9	105.8	8.13	14.017		
2,300.0	2,288.1	2,298.3	2,294.4	5.4	4.5	-156.98	76.4	68.6	120.4	111.9	8.51	14.153		
2,400.0	2,387.2	2,398.1	2,393.9	5.7	4.7	-157.06	81.0	74.0	127.0	118.1	8.89	14.278		
2,500.0	2,486.4	2,497.9	2,493.4	6.0	5.0	-157.13	85.7	79.4	133.5	124.2	9.28	14.392		
2,600.0	2,585.6	2,597.7	2,593.0	6.3	5.2	-157.19	90.3	84.8	140.1	130.4	9.66	14.497		
2,700.0	2,684.8	2,697.5	2,692.5	6.6	5.4	-157.25	94.9	90.2	146.6	136.6	10.05	14.594		
2,800.0	2,784.0	2,797.3	2,792.0	6.8	5.6	-157.30	99.5	95.6	153.1	142.7	10.43	14.683		
2,900.0	2,883.2	2,897.1	2,891.6	7.1	5.8	-157.35	104.1	100.9	159.7	148.9	10.81	14.766		
3,000.0	2,982.3	2,996.8	2,991.1	7.4	6.0	-157.39	108.7	106.3	166.2	155.0	11.20	14.844		
3,100.0	3,081.5	3,096.6	3,090.6	7.7	6.2	-157.43	113.3	111.7	172.8	161.2	11.58	14.916		
3,200.0	3,180.7	3,196.4	3,190.2	8.0	6.4	-157.47	118.0	117.1	179.3	167.3	11.97	14.983		
3,300.0	3,279.9	3,296.2	3,289.7	8.2	6.7	-157.51	122.6	122.5	185.9	173.5	12.35	15.046		
3,400.0	3,379.1	3,396.0	3,389.2	8.5	6.9	-157.54	127.2	127.9	192.4	179.7	12.74	15.105		
3,500.0	3,478.3	3,495.8	3,488.8	8.8	7.1	-157.57	131.8	133.3	198.9	185.8	13.12	15.161		
3,600.0	3,577.4	3,595.6	3,588.3	9.1	7.3	-157.60	136.4	138.6	205.5	192.0	13.51	15.214		
3,700.0	3,676.6	3,695.3	3,687.8	9.4	7.5	-157.63	141.0	144.0	212.0	198.1	13.89	15.263		
3,800.0	3,775.8	3,795.1	3,787.4	9.7	7.7	-157.65	145.6	149.4	218.6	204.3	14.28	15.310		
3,900.0	3,875.0	3,894.9	3,886.9	9.9	7.9	-157.68	150.3	154.8	225.1	210.5	14.66	15.355		
4,000.0	3,974.2	3,994.7	3,986.4	10.2	8.1	-157.70	154.9	160.2	231.7	216.6	15.05	15.397		
4,100.0	4,073.4	4,094.5	4,086.0	10.5	8.4	-157.72	159.5	165.6	238.2	222.8	15.43	15.437		
4,200.0	4,172.5	4,194.3	4,185.5	10.8	8.6	-157.74	164.1	171.0	244.7	228.9	15.82	15.475		
4,300.0	4,271.7	4,294.1	4,285.0	11.1	8.8	-157.76	168.7	176.3	251.3	235.1	16.20	15.511		
4,400.0	4,370.9	4,393.8	4,384.6	11.4	9.0	-157.78	173.3	181.7	257.8	241.2	16.59	15.546		
4,500.0	4,470.1	4,493.6	4,484.1	11.6	9.2	-157.80	177.9	187.1	264.4	247.4	16.97	15.579		
4,600.0	4,569.3	4,593.4	4,583.6	11.9	9.4	-157.81	182.5	192.5	270.9	253.6	17.35	15.610		
4,700.0	4,668.5	4,693.2	4,683.2	12.2	9.6	-157.83	187.2	197.9	277.5	259.7	17.74	15.640		
4,800.0	4,767.6	4,793.0	4,782.7	12.5	9.8	-157.84	191.8	203.3	284.0	265.9	18.12	15.669		
4,900.0	4,866.8	4,892.8	4,882.2	12.8	10.1	-157.86	196.4	208.7	290.5	272.0	18.51	15.697		
5,000.0	4,966.0	4,992.6	4,981.8	13.1	10.3	-157.87	201.0	214.0	297.1	278.2	18.89	15.723		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1G-32H-B264 - 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	5,065.2	5,092.3	5,081.3	13.3	10.5	-157.88	205.6	219.4	303.6	284.3	19.28	15.748		
5,200.0	5,164.4	5,192.1	5,180.8	13.6	10.7	-157.90	210.2	224.8	310.2	290.5	19.66	15.773		
5,300.0	5,263.6	5,291.9	5,280.4	13.9	10.9	-157.91	214.8	230.2	316.7	296.7	20.05	15.796		
5,400.0	5,362.7	5,391.7	5,379.9	14.2	11.1	-157.92	219.5	235.6	323.3	302.8	20.43	15.819		
5,500.0	5,461.9	5,491.5	5,479.4	14.5	11.3	-157.93	224.1	241.0	329.8	309.0	20.82	15.841		
5,600.0	5,561.1	5,591.3	5,579.0	14.8	11.6	-157.94	228.7	246.4	336.3	315.1	21.21	15.861		
5,700.0	5,660.3	5,691.1	5,678.5	15.0	11.8	-157.95	233.3	251.7	342.9	321.3	21.59	15.882		
5,800.0	5,759.5	5,790.8	5,778.0	15.3	12.0	-157.96	237.9	257.1	349.4	327.5	21.98	15.901		
5,900.0	5,858.7	5,890.6	5,877.6	15.6	12.2	-157.97	242.5	262.5	356.0	333.6	22.36	15.920		
6,000.0	5,957.8	5,990.4	5,977.1	15.9	12.4	-157.98	247.1	267.9	362.5	339.8	22.75	15.938		
6,100.0	6,057.0	6,090.2	6,076.6	16.2	12.6	-157.99	251.8	273.3	369.1	345.9	23.13	15.956		
6,200.0	6,156.2	6,190.0	6,176.2	16.5	12.8	-158.00	256.4	278.7	375.6	352.1	23.52	15.972		
6,300.0	6,255.4	6,289.8	6,275.7	16.7	13.0	-158.01	261.0	284.1	382.1	358.2	23.90	15.989		
6,400.0	6,354.6	6,390.1	6,375.8	17.0	13.2	-158.66	261.3	289.5	388.6	364.5	24.16	16.083		
6,500.0	6,453.8	6,487.7	6,472.3	17.3	13.3	-176.51	248.4	294.7	395.4	371.3	24.12	16.396		
6,600.0	6,552.8	6,582.1	6,563.2	17.5	13.3	127.90	223.5	299.6	403.2	379.3	23.92	16.857		
6,700.0	6,650.1	6,674.2	6,648.0	17.7	13.3	105.95	188.0	304.2	411.7	387.9	23.78	17.311		
6,800.0	6,743.7	6,764.3	6,725.8	17.8	13.3	95.53	142.9	308.4	420.6	396.8	23.78	17.685		
6,900.0	6,831.8	6,850.0	6,794.1	17.9	13.4	89.16	91.3	312.1	429.6	405.6	23.95	17.935		
7,000.0	6,912.7	6,939.5	6,858.3	18.0	13.5	84.59	29.1	315.6	438.2	413.9	24.32	18.017		
7,100.0	6,984.9	7,025.1	6,912.0	18.2	13.7	81.22	-37.4	318.5	446.2	421.3	24.84	17.962		
7,200.0	7,046.8	7,109.7	6,956.9	18.4	14.0	78.66	-109.0	320.9	453.2	427.7	25.52	17.759		
7,300.0	7,097.4	7,193.6	6,992.7	18.8	14.4	76.76	-184.7	322.9	459.1	432.7	26.34	17.429		
7,400.0	7,135.6	7,276.8	7,019.4	19.3	14.9	75.40	-263.5	324.3	463.5	436.3	27.29	16.983		
7,500.0	7,160.7	7,359.6	7,036.7	19.8	15.6	74.54	-344.4	325.2	466.5	438.2	28.38	16.441		
7,600.0	7,172.2	7,442.1	7,044.5	20.6	16.3	74.16	-426.5	325.7	467.9	438.3	29.59	15.812		
7,700.0	7,173.0	7,536.4	7,045.0	21.4	17.3	74.13	-520.8	325.7	468.0	436.5	31.49	14.863		
7,800.0	7,173.0	7,636.4	7,045.0	22.3	18.5	74.13	-620.8	325.7	468.0	434.2	33.83	13.836		
7,900.0	7,173.0	7,736.4	7,045.0	23.3	19.7	74.13	-720.8	325.7	468.0	431.7	36.33	12.884		
8,000.0	7,173.0	7,836.4	7,045.0	24.5	21.0	74.13	-820.8	325.7	468.0	429.1	38.96	12.014		
8,100.0	7,173.0	7,936.4	7,045.0	25.6	22.4	74.13	-920.8	325.7	468.0	426.3	41.70	11.224		
8,200.0	7,173.0	8,036.4	7,045.0	26.9	23.8	74.13	-1,020.8	325.7	468.0	423.5	44.52	10.512		
8,300.0	7,173.0	8,136.4	7,045.0	28.2	25.3	74.13	-1,120.8	325.7	468.0	420.6	47.42	9.869		
8,400.0	7,173.0	8,236.4	7,045.0	29.5	26.7	74.13	-1,220.8	325.7	468.0	417.6	50.38	9.289		
8,500.0	7,173.0	8,336.4	7,045.0	30.9	28.3	74.13	-1,320.8	325.7	468.0	414.6	53.39	8.766		
8,600.0	7,173.0	8,436.4	7,045.0	32.3	29.8	74.13	-1,420.8	325.7	468.0	411.6	56.44	8.292		
8,700.0	7,173.0	8,536.4	7,045.0	33.8	31.4	74.13	-1,520.8	325.7	468.0	408.5	59.53	7.862		
8,800.0	7,173.0	8,636.4	7,045.0	35.3	33.0	74.13	-1,620.8	325.7	468.0	405.4	62.64	7.471		
8,900.0	7,173.0	8,736.4	7,045.0	36.8	34.6	74.13	-1,720.8	325.7	468.0	402.2	65.78	7.115		
9,000.0	7,173.0	8,836.4	7,045.0	38.3	36.2	74.13	-1,820.8	325.7	468.0	399.1	68.95	6.788		
9,100.0	7,173.0	8,936.4	7,045.0	39.9	37.8	74.13	-1,920.8	325.7	468.0	395.9	72.13	6.489		
9,200.0	7,173.0	9,036.4	7,045.0	41.4	39.5	74.13	-2,020.8	325.7	468.0	392.7	75.33	6.213		
9,300.0	7,173.0	9,136.4	7,045.0	43.0	41.1	74.13	-2,120.8	325.7	468.0	389.5	78.54	5.959		
9,400.0	7,173.0	9,236.4	7,045.0	44.6	42.8	74.13	-2,220.8	325.7	468.0	386.3	81.77	5.724		
9,500.0	7,173.0	9,336.4	7,045.0	46.2	44.5	74.13	-2,320.8	325.7	468.0	383.0	85.01	5.506		
9,600.0	7,173.0	9,436.4	7,045.0	47.8	46.1	74.13	-2,420.8	325.7	468.0	379.8	88.26	5.303		
9,700.0	7,173.0	9,536.4	7,045.0	49.4	47.8	74.13	-2,520.8	325.7	468.0	376.5	91.51	5.114		
9,800.0	7,173.0	9,636.4	7,045.0	51.1	49.5	74.13	-2,620.8	325.7	468.0	373.2	94.78	4.938		
9,900.0	7,173.0	9,736.4	7,045.0	52.7	51.2	74.13	-2,720.8	325.7	468.0	370.0	98.06	4.773		
10,000.0	7,173.0	9,836.4	7,045.0	54.4	52.9	74.13	-2,820.8	325.7	468.0	366.7	101.34	4.619		
10,100.0	7,173.0	9,936.4	7,045.0	56.0	54.6	74.13	-2,920.8	325.7	468.0	363.4	104.62	4.473		
10,200.0	7,173.0	10,036.4	7,045.0	57.7	56.3	74.13	-3,020.8	325.7	468.0	360.1	107.92	4.337		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S32-T2N-R64W (Newman) - Ruhl 1G-32H-B264 - 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	7,173.0	10,136.4	7,045.0	59.3	58.0	74.13	-3,120.8	325.7	468.0	356.8	111.21	4.208					
10,400.0	7,173.0	10,236.4	7,045.0	61.0	59.7	74.13	-3,220.8	325.7	468.0	353.5	114.51	4.087					
10,500.0	7,173.0	10,336.4	7,045.0	62.7	61.4	74.13	-3,320.8	325.7	468.0	350.2	117.82	3.972					
10,600.0	7,173.0	10,436.4	7,045.0	64.3	63.1	74.13	-3,420.8	325.7	468.0	346.9	121.13	3.864					
10,700.0	7,173.0	10,536.4	7,045.0	66.0	64.8	74.13	-3,520.8	325.7	468.0	343.6	124.44	3.761					
10,800.0	7,173.0	10,636.4	7,045.0	67.7	66.5	74.13	-3,620.8	325.7	468.0	340.3	127.76	3.663					
10,900.0	7,173.0	10,736.4	7,045.0	69.4	68.3	74.13	-3,720.8	325.7	468.0	336.9	131.08	3.571					
11,000.0	7,173.0	10,836.4	7,045.0	71.1	70.0	74.13	-3,820.8	325.7	468.0	333.6	134.40	3.482					
11,100.0	7,173.0	10,936.4	7,045.0	72.8	71.7	74.13	-3,920.8	325.7	468.0	330.3	137.73	3.398					
11,200.0	7,173.0	11,036.4	7,045.0	74.5	73.4	74.13	-4,020.8	325.7	468.0	327.0	141.06	3.318					
11,300.0	7,173.0	11,136.4	7,045.0	76.2	75.1	74.13	-4,120.8	325.7	468.0	323.6	144.39	3.241					
11,400.0	7,173.0	11,236.4	7,045.0	77.9	76.9	74.13	-4,220.8	325.7	468.0	320.3	147.72	3.168					
11,500.0	7,173.0	11,336.4	7,045.0	79.6	78.6	74.13	-4,320.8	325.7	468.0	317.0	151.05	3.098					
11,600.0	7,173.0	11,436.4	7,045.0	81.3	80.3	74.13	-4,420.8	325.7	468.0	313.6	154.39	3.032					
11,700.0	7,173.0	11,536.4	7,045.0	83.0	82.1	74.13	-4,520.8	325.7	468.0	310.3	157.72	2.967					
11,722.3	7,173.0	11,558.7	7,045.0	83.4	82.4	74.13	-4,543.1	325.7	468.0	309.6	158.47	2.953					
11,743.2	7,173.0	11,577.0	7,045.0	83.8	82.8	74.13	-4,561.5	325.7	468.0	308.9	159.12	2.941 SF					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1H-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.05	0.0	-10.1	10.1	10.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.2	0.2	-90.05	0.0	-10.1	10.1	9.7	0.35	28.850		
200.0	200.0	200.0	200.0	0.3	0.3	-90.05	0.0	-10.1	10.1	9.4	0.70	14.425		
300.0	300.0	300.0	300.0	0.5	0.5	-90.05	0.0	-10.1	10.1	9.0	1.05	9.617 CC		
327.9	327.9	327.9	327.9	0.6	0.6	-159.27	0.0	-10.1	10.1	9.0	1.14	8.827		
400.0	400.0	400.0	400.0	0.7	0.7	-159.63	0.0	-10.1	10.3	8.9	1.40	7.359 ES		
500.0	500.0	500.2	500.2	0.9	0.9	-160.68	0.4	-9.3	11.1	9.4	1.75	6.381		
600.0	599.9	600.3	600.3	1.1	1.1	-160.60	1.6	-7.0	12.1	10.0	2.10	5.766		
700.0	699.8	700.5	700.4	1.2	1.2	-159.65	3.7	-3.1	13.1	10.7	2.45	5.357		
800.0	799.5	800.7	800.4	1.4	1.4	-158.04	6.6	2.3	14.2	11.4	2.81	5.075		
900.0	899.2	900.9	900.3	1.7	1.6	-155.93	10.3	9.2	15.5	12.3	3.17	4.877		
1,000.0	998.6	1,001.1	1,000.0	1.9	1.9	-153.57	14.8	17.7	16.9	13.3	3.55	4.746		
1,100.0	1,097.9	1,101.1	1,099.5	2.1	2.1	-153.09	19.5	26.6	19.4	15.4	3.94	4.921		
1,200.0	1,197.0	1,201.0	1,198.9	2.4	2.3	-153.43	24.2	35.5	22.4	18.1	4.32	5.187		
1,300.0	1,296.2	1,301.0	1,298.4	2.7	2.6	-153.69	29.0	44.4	25.5	20.7	4.71	5.407		
1,400.0	1,395.4	1,400.9	1,397.8	2.9	2.8	-153.89	33.7	53.3	28.5	23.4	5.10	5.593		
1,500.0	1,494.6	1,500.9	1,497.3	3.2	3.0	-154.05	38.4	62.2	31.5	26.1	5.48	5.751		
1,600.0	1,593.8	1,600.9	1,596.7	3.5	3.3	-154.19	43.2	71.1	34.6	28.7	5.87	5.887		
1,700.0	1,693.0	1,700.8	1,696.1	3.8	3.5	-154.30	47.9	79.9	37.6	31.4	6.26	6.006		
1,800.0	1,792.1	1,800.8	1,795.6	4.0	3.8	-154.40	52.6	88.8	40.7	34.0	6.66	6.111		
1,900.0	1,891.3	1,900.7	1,895.0	4.3	4.0	-154.48	57.4	97.7	43.7	36.7	7.05	6.203		
2,000.0	1,990.5	2,000.7	1,994.5	4.6	4.2	-154.55	62.1	106.6	46.8	39.3	7.44	6.285		
2,100.0	2,089.7	2,100.6	2,093.9	4.9	4.5	-154.61	66.8	115.5	49.8	42.0	7.83	6.359		
2,200.0	2,188.9	2,200.6	2,193.4	5.1	4.7	-154.67	71.6	124.4	52.8	44.6	8.22	6.426		
2,300.0	2,288.1	2,300.5	2,292.8	5.4	5.0	-154.72	76.3	133.3	55.9	47.3	8.62	6.486		
2,400.0	2,387.2	2,400.5	2,392.3	5.7	5.2	-154.77	81.0	142.2	58.9	49.9	9.01	6.541		
2,500.0	2,486.4	2,500.4	2,491.7	6.0	5.5	-154.81	85.8	151.1	62.0	52.6	9.40	6.591		
2,600.0	2,585.6	2,600.4	2,591.2	6.3	5.7	-154.84	90.5	160.0	65.0	55.2	9.80	6.637		
2,700.0	2,684.8	2,700.3	2,690.6	6.6	6.0	-154.88	95.2	168.9	68.1	57.9	10.19	6.680		
2,800.0	2,784.0	2,800.3	2,790.0	6.8	6.2	-154.91	100.0	177.8	71.1	60.5	10.58	6.719		
2,900.0	2,883.2	2,900.3	2,889.5	7.1	6.4	-154.93	104.7	186.7	74.2	63.2	10.98	6.755		
3,000.0	2,982.3	3,000.2	2,988.9	7.4	6.7	-154.96	109.4	195.5	77.2	65.8	11.37	6.789		
3,100.0	3,081.5	3,100.2	3,088.4	7.7	6.9	-154.98	114.2	204.4	80.2	68.5	11.77	6.820		
3,200.0	3,180.7	3,200.1	3,187.8	8.0	7.2	-155.01	118.9	213.3	83.3	71.1	12.16	6.849		
3,300.0	3,279.9	3,300.1	3,287.3	8.2	7.4	-155.03	123.6	222.2	86.3	73.8	12.55	6.877		
3,400.0	3,379.1	3,400.0	3,386.7	8.5	7.7	-155.05	128.3	231.1	89.4	76.4	12.95	6.903		
3,500.0	3,478.3	3,500.0	3,486.2	8.8	7.9	-155.06	133.1	240.0	92.4	79.1	13.34	6.927		
3,600.0	3,577.4	3,599.9	3,585.6	9.1	8.2	-155.08	137.8	248.9	95.5	81.7	13.74	6.950		
3,700.0	3,676.6	3,699.9	3,685.0	9.4	8.4	-155.10	142.5	257.8	98.5	84.4	14.13	6.971		
3,800.0	3,775.8	3,799.8	3,784.5	9.7	8.7	-155.11	147.3	266.7	101.6	87.0	14.53	6.991		
3,900.0	3,875.0	3,899.8	3,883.9	9.9	8.9	-155.12	152.0	275.6	104.6	89.7	14.92	7.010		
4,000.0	3,974.2	3,999.7	3,983.4	10.2	9.2	-155.14	156.7	284.5	107.6	92.3	15.32	7.029		
4,100.0	4,073.4	4,099.7	4,082.8	10.5	9.4	-155.15	161.5	293.4	110.7	95.0	15.71	7.046		
4,200.0	4,172.5	4,199.7	4,182.3	10.8	9.7	-155.16	166.2	302.2	113.7	97.6	16.10	7.062		
4,300.0	4,271.7	4,299.6	4,281.7	11.1	9.9	-155.17	170.9	311.1	116.8	100.3	16.50	7.078		
4,400.0	4,370.9	4,399.6	4,381.2	11.4	10.1	-155.18	175.7	320.0	119.8	102.9	16.89	7.093		
4,500.0	4,470.1	4,499.5	4,480.6	11.6	10.4	-155.19	180.4	328.9	122.9	105.6	17.29	7.107		
4,600.0	4,569.3	4,599.5	4,580.0	11.9	10.6	-155.20	185.1	337.8	125.9	108.2	17.68	7.120		
4,700.0	4,668.5	4,699.4	4,679.5	12.2	10.9	-155.21	189.9	346.7	129.0	110.9	18.08	7.133		
4,800.0	4,767.6	4,799.4	4,778.9	12.5	11.1	-155.22	194.6	355.6	132.0	113.5	18.47	7.146		
4,900.0	4,866.8	4,899.3	4,878.4	12.8	11.4	-155.23	199.3	364.5	135.0	116.2	18.87	7.157		
5,000.0	4,966.0	4,999.3	4,977.8	13.1	11.6	-155.24	204.1	373.4	138.1	118.8	19.26	7.169		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1H-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,065.2	5,099.2	5,077.3	13.3	11.9	-155.24	208.8	382.3	141.1	121.5	19.66	7.180		
5,200.0	5,164.4	5,199.2	5,176.7	13.6	12.1	-155.25	213.5	391.2	144.2	124.1	20.05	7.190		
5,300.0	5,263.6	5,299.1	5,276.2	13.9	12.4	-155.26	218.3	400.1	147.2	126.8	20.45	7.200		
5,400.0	5,362.7	5,399.1	5,375.6	14.2	12.6	-155.26	223.0	409.0	150.3	129.4	20.84	7.210		
5,500.0	5,461.9	5,499.0	5,475.1	14.5	12.9	-155.27	227.7	417.8	153.3	132.1	21.24	7.219		
5,600.0	5,561.1	5,599.0	5,574.5	14.8	13.1	-155.28	232.5	426.7	156.4	134.7	21.63	7.228		
5,700.0	5,660.3	5,699.0	5,673.9	15.0	13.4	-155.28	237.2	435.6	159.4	137.4	22.03	7.237		
5,800.0	5,759.5	5,798.9	5,773.4	15.3	13.6	-155.29	241.9	444.5	162.4	140.0	22.42	7.245		
5,900.0	5,858.7	5,898.9	5,872.8	15.6	13.9	-155.29	246.7	453.4	165.5	142.7	22.82	7.253		
6,000.0	5,957.8	5,998.8	5,972.3	15.9	14.1	-155.30	251.4	462.3	168.5	145.3	23.21	7.261		
6,100.0	6,057.0	6,098.8	6,071.7	16.2	14.4	-155.30	256.1	471.2	171.6	148.0	23.61	7.268		
6,200.0	6,156.2	6,198.7	6,171.2	16.5	14.6	-155.31	260.9	480.1	174.6	150.6	24.00	7.275		
6,300.0	6,255.4	6,299.5	6,271.5	16.7	14.8	-156.09	263.2	489.1	177.5	153.3	24.25	7.320		
6,400.0	6,354.6	6,398.8	6,369.7	17.0	15.0	-160.84	252.9	497.8	180.4	156.5	23.86	7.561		
6,500.0	6,453.8	6,492.4	6,460.3	17.3	15.1	175.77	230.8	505.9	186.3	163.1	23.20	8.028		
6,600.0	6,552.8	6,581.7	6,543.2	17.5	15.1	115.00	198.8	513.4	196.8	173.8	23.04	8.541		
6,700.0	6,650.1	6,668.0	6,619.1	17.7	15.2	88.86	158.3	520.1	210.5	187.0	23.49	8.962		
6,800.0	6,743.7	6,750.0	6,686.2	17.8	15.2	75.34	111.5	526.1	225.9	201.7	24.18	9.342		
6,900.0	6,831.8	6,833.9	6,748.9	17.9	15.3	66.45	56.1	531.7	241.8	216.9	24.88	9.718		
7,000.0	6,912.7	6,914.2	6,802.4	18.0	15.4	60.24	-3.5	536.5	257.2	231.9	25.30	10.167		
7,100.0	6,984.9	6,993.1	6,848.2	18.2	15.7	55.69	-67.6	540.6	271.4	245.9	25.48	10.653		
7,200.0	7,046.8	7,070.9	6,886.2	18.4	16.0	52.32	-135.3	544.0	283.9	258.5	25.40	11.176		
7,300.0	7,097.4	7,150.0	6,917.1	18.8	16.4	49.85	-208.0	546.8	294.2	269.1	25.17	11.688		
7,400.0	7,135.6	7,224.1	6,938.7	19.3	16.8	48.18	-278.9	548.7	302.1	277.2	24.85	12.155		
7,500.0	7,160.7	7,300.0	6,953.1	19.8	17.4	47.12	-353.3	550.0	307.3	282.7	24.60	12.496		
7,600.0	7,172.2	7,375.6	6,959.6	20.6	18.0	46.64	-428.6	550.6	309.8	285.3	24.50	12.646		
7,700.0	7,173.0	7,467.8	6,960.0	21.4	18.9	46.60	-520.8	550.6	310.0	284.4	25.64	12.089		
7,800.0	7,173.0	7,567.8	6,960.0	22.3	19.9	46.60	-620.8	550.6	310.0	282.6	27.43	11.300		
7,900.0	7,173.0	7,667.8	6,960.0	23.3	21.1	46.60	-720.8	550.6	310.0	280.7	29.34	10.567		
8,000.0	7,173.0	7,767.8	6,960.0	24.5	22.3	46.60	-820.8	550.6	310.0	278.7	31.34	9.893		
8,100.0	7,173.0	7,867.8	6,960.0	25.6	23.6	46.60	-920.8	550.6	310.0	276.6	33.41	9.278		
8,200.0	7,173.0	7,967.8	6,960.0	26.9	24.9	46.60	-1,020.8	550.6	310.0	274.4	35.55	8.719		
8,300.0	7,173.0	8,067.8	6,960.0	28.2	26.3	46.60	-1,120.8	550.6	310.0	272.3	37.75	8.213		
8,400.0	7,173.0	8,167.8	6,960.0	29.5	27.8	46.60	-1,220.8	550.6	310.0	270.0	39.98	7.753		
8,500.0	7,173.0	8,267.8	6,960.0	30.9	29.2	46.60	-1,320.8	550.6	310.0	267.7	42.26	7.336		
8,600.0	7,173.0	8,367.8	6,960.0	32.3	30.7	46.60	-1,420.8	550.6	310.0	265.4	44.56	6.957		
8,700.0	7,173.0	8,467.8	6,960.0	33.8	32.3	46.60	-1,520.8	550.6	310.0	263.1	46.89	6.611		
8,800.0	7,173.0	8,567.8	6,960.0	35.3	33.8	46.60	-1,620.8	550.6	310.0	260.7	49.25	6.295		
8,900.0	7,173.0	8,667.8	6,960.0	36.8	35.4	46.60	-1,720.8	550.6	310.0	258.4	51.62	6.005		
9,000.0	7,173.0	8,767.8	6,960.0	38.3	37.0	46.60	-1,820.8	550.6	310.0	256.0	54.01	5.739		
9,100.0	7,173.0	8,867.8	6,960.0	39.9	38.6	46.60	-1,920.8	550.6	310.0	253.6	56.42	5.494		
9,200.0	7,173.0	8,967.8	6,960.0	41.4	40.2	46.60	-2,020.8	550.6	310.0	251.2	58.84	5.268		
9,300.0	7,173.0	9,067.8	6,960.0	43.0	41.8	46.60	-2,120.8	550.6	310.0	248.7	61.27	5.059		
9,400.0	7,173.0	9,167.8	6,960.0	44.6	43.4	46.60	-2,220.8	550.6	310.0	246.3	63.72	4.865		
9,500.0	7,173.0	9,267.8	6,960.0	46.2	45.1	46.60	-2,320.8	550.6	310.0	243.8	66.17	4.685		
9,600.0	7,173.0	9,367.8	6,960.0	47.8	46.7	46.60	-2,420.8	550.6	310.0	241.4	68.63	4.517		
9,700.0	7,173.0	9,467.8	6,960.0	49.4	48.4	46.60	-2,520.8	550.6	310.0	238.9	71.09	4.360		
9,800.0	7,173.0	9,567.8	6,960.0	51.1	50.1	46.60	-2,620.8	550.6	310.0	236.4	73.57	4.214		
9,900.0	7,173.0	9,667.8	6,960.0	52.7	51.7	46.60	-2,720.8	550.6	310.0	233.9	76.05	4.076		
10,000.0	7,173.0	9,767.8	6,960.0	54.4	53.4	46.60	-2,820.8	550.6	310.0	231.5	78.53	3.947		
10,100.0	7,173.0	9,867.8	6,960.0	56.0	55.1	46.60	-2,920.8	550.6	310.0	229.0	81.02	3.826		
10,200.0	7,173.0	9,967.8	6,960.0	57.7	56.8	46.60	-3,020.8	550.6	310.0	226.5	83.51	3.712		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1H-32H-B264 - 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	7,173.0	10,067.8	6,960.0	59.3	58.5	46.60	-3,120.8	550.6	310.0	224.0	86.01	3.604		
10,400.0	7,173.0	10,167.8	6,960.0	61.0	60.1	46.60	-3,220.8	550.6	310.0	221.5	88.51	3.502		
10,500.0	7,173.0	10,267.8	6,960.0	62.7	61.8	46.60	-3,320.8	550.6	310.0	219.0	91.02	3.406		
10,600.0	7,173.0	10,367.8	6,960.0	64.3	63.5	46.60	-3,420.8	550.6	310.0	216.5	93.53	3.315		
10,700.0	7,173.0	10,467.8	6,960.0	66.0	65.2	46.60	-3,520.8	550.6	310.0	214.0	96.04	3.228		
10,800.0	7,173.0	10,567.8	6,960.0	67.7	66.9	46.60	-3,620.8	550.6	310.0	211.4	98.55	3.146		
10,900.0	7,173.0	10,667.8	6,960.0	69.4	68.7	46.60	-3,720.8	550.6	310.0	208.9	101.07	3.067		
11,000.0	7,173.0	10,767.8	6,960.0	71.1	70.4	46.60	-3,820.8	550.6	310.0	206.4	103.59	2.993		
11,100.0	7,173.0	10,867.8	6,960.0	72.8	72.1	46.60	-3,920.8	550.6	310.0	203.9	106.11	2.922		
11,200.0	7,173.0	10,967.8	6,960.0	74.5	73.8	46.60	-4,020.8	550.6	310.0	201.4	108.63	2.854		
11,300.0	7,173.0	11,067.8	6,960.0	76.2	75.5	46.60	-4,120.8	550.6	310.0	198.8	111.15	2.789		
11,400.0	7,173.0	11,167.8	6,960.0	77.9	77.2	46.60	-4,220.8	550.6	310.0	196.3	113.68	2.727		
11,500.0	7,173.0	11,267.8	6,960.0	79.6	78.9	46.60	-4,320.8	550.6	310.0	193.8	116.21	2.668		
11,600.0	7,173.0	11,367.8	6,960.0	81.3	80.7	46.60	-4,420.8	550.6	310.0	191.3	118.74	2.611		
11,700.0	7,173.0	11,467.8	6,960.0	83.0	82.4	46.60	-4,520.8	550.6	310.0	188.7	121.27	2.556		
11,722.7	7,173.0	11,490.6	6,960.0	83.4	82.8	46.60	-4,543.5	550.6	310.0	188.2	121.84	2.544		
11,743.2	7,173.0	11,509.6	6,960.0	83.8	83.1	46.60	-4,562.6	550.6	310.0	187.7	122.34	2.534 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1J-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.95	0.0	10.1	10.1	10.1	0.00	N/A		
100.0	100.0	100.0	100.0	0.2	0.2	89.95	0.0	10.1	10.1	9.7	0.35	28.850		
200.0	200.0	200.0	200.0	0.3	0.3	89.95	0.0	10.1	10.1	9.4	0.70	14.425		
300.0	300.0	300.0	300.0	0.5	0.5	89.95	0.0	10.1	10.1	9.0	1.05	9.617 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	19.88	0.3	10.9	10.7	9.3	1.40	7.667		
500.0	500.0	499.6	499.6	0.9	0.9	19.29	1.0	13.4	11.6	9.8	1.74	6.634		
600.0	599.9	599.4	599.3	1.1	1.1	19.35	2.3	17.6	12.5	10.4	2.09	5.960		
700.0	699.8	699.2	698.9	1.2	1.3	19.90	4.0	23.4	13.4	11.0	2.45	5.489		
800.0	799.5	799.0	798.3	1.4	1.5	20.86	6.3	30.9	14.4	11.6	2.80	5.143		
900.0	899.2	898.7	897.6	1.7	1.7	22.13	9.0	40.0	15.4	12.3	3.16	4.880		
1,000.0	998.6	998.4	996.7	1.9	1.9	23.65	12.3	50.8	16.5	13.0	3.53	4.671		
1,100.0	1,097.9	1,098.2	1,095.6	2.1	2.2	25.32	16.0	63.2	17.6	13.7	3.92	4.506		
1,200.0	1,197.0	1,197.8	1,194.2	2.4	2.5	25.63	20.2	77.3	19.9	15.6	4.30	4.620		
1,300.0	1,296.2	1,297.7	1,292.7	2.7	2.8	24.70	24.8	92.6	23.3	18.6	4.68	4.983		
1,400.0	1,395.4	1,397.6	1,391.4	2.9	3.1	23.96	29.5	108.0	26.8	21.8	5.06	5.306		
1,500.0	1,494.6	1,497.6	1,490.0	3.2	3.4	23.39	34.1	123.4	30.3	24.9	5.43	5.584		
1,600.0	1,593.8	1,597.5	1,588.6	3.5	3.7	22.94	38.8	138.8	33.9	28.0	5.81	5.826		
1,700.0	1,693.0	1,697.4	1,687.3	3.8	4.1	22.57	43.4	154.2	37.4	31.2	6.19	6.039		
1,800.0	1,792.1	1,797.4	1,785.9	4.0	4.4	22.27	48.0	169.6	40.9	34.3	6.57	6.227		
1,900.0	1,891.3	1,897.3	1,884.5	4.3	4.7	22.02	52.7	185.0	44.4	37.5	6.95	6.395		
2,000.0	1,990.5	1,997.2	1,983.2	4.6	5.0	21.80	57.3	200.4	47.9	40.6	7.32	6.545		
2,100.0	2,089.7	2,097.2	2,081.8	4.9	5.4	21.61	61.9	215.8	51.5	43.8	7.70	6.681		
2,200.0	2,188.9	2,197.1	2,180.4	5.1	5.7	21.45	66.6	231.2	55.0	46.9	8.08	6.804		
2,300.0	2,288.1	2,297.1	2,279.1	5.4	6.0	21.30	71.2	246.6	58.5	50.0	8.46	6.916		
2,400.0	2,387.2	2,397.0	2,377.7	5.7	6.3	21.17	75.8	262.0	62.0	53.2	8.84	7.019		
2,500.0	2,486.4	2,496.9	2,476.3	6.0	6.7	21.06	80.5	277.4	65.5	56.3	9.22	7.112		
2,600.0	2,585.6	2,596.9	2,575.0	6.3	7.0	20.96	85.1	292.8	69.1	59.5	9.59	7.199		
2,700.0	2,684.8	2,696.8	2,673.6	6.6	7.3	20.86	89.7	308.2	72.6	62.6	9.97	7.279		
2,800.0	2,784.0	2,796.7	2,772.2	6.8	7.7	20.78	94.4	323.6	76.1	65.8	10.35	7.353		
2,900.0	2,883.2	2,896.7	2,870.9	7.1	8.0	20.70	99.0	339.0	79.6	68.9	10.73	7.422		
3,000.0	2,982.3	2,996.6	2,969.5	7.4	8.3	20.63	103.6	354.4	83.2	72.1	11.11	7.486		
3,100.0	3,081.5	3,096.6	3,068.2	7.7	8.7	20.57	108.3	369.8	86.7	75.2	11.49	7.546		
3,200.0	3,180.7	3,196.5	3,166.8	8.0	9.0	20.51	112.9	385.2	90.2	78.3	11.87	7.602		
3,300.0	3,279.9	3,296.4	3,265.4	8.2	9.3	20.45	117.5	400.6	93.7	81.5	12.25	7.655		
3,400.0	3,379.1	3,396.4	3,364.1	8.5	9.7	20.40	122.2	416.0	97.3	84.6	12.62	7.704		
3,500.0	3,478.3	3,496.3	3,462.7	8.8	10.0	20.36	126.8	431.4	100.8	87.8	13.00	7.751		
3,600.0	3,577.4	3,596.2	3,561.3	9.1	10.3	20.31	131.4	446.8	104.3	90.9	13.38	7.794		
3,700.0	3,676.6	3,696.2	3,660.0	9.4	10.6	20.27	136.1	462.2	107.8	94.1	13.76	7.836		
3,800.0	3,775.8	3,796.1	3,758.6	9.7	11.0	20.23	140.7	477.6	111.4	97.2	14.14	7.875		
3,900.0	3,875.0	3,896.1	3,857.2	9.9	11.3	20.20	145.3	493.0	114.9	100.4	14.52	7.912		
4,000.0	3,974.2	3,996.0	3,955.9	10.2	11.6	20.16	150.0	508.4	118.4	103.5	14.90	7.948		
4,100.0	4,073.4	4,095.9	4,054.5	10.5	12.0	20.13	154.6	523.8	121.9	106.7	15.28	7.981		
4,200.0	4,172.5	4,195.9	4,153.1	10.8	12.3	20.10	159.2	539.2	125.5	109.8	15.66	8.013		
4,300.0	4,271.7	4,295.8	4,251.8	11.1	12.6	20.07	163.9	554.6	129.0	112.9	16.03	8.044		
4,400.0	4,370.9	4,395.8	4,350.4	11.4	13.0	20.04	168.5	570.0	132.5	116.1	16.41	8.073		
4,500.0	4,470.1	4,495.7	4,449.0	11.6	13.3	20.02	173.2	585.4	136.0	119.2	16.79	8.100		
4,600.0	4,569.3	4,595.6	4,547.7	11.9	13.6	19.99	177.8	600.8	139.6	122.4	17.17	8.127		
4,700.0	4,668.5	4,695.6	4,646.3	12.2	14.0	19.97	182.4	616.2	143.1	125.5	17.55	8.152		
4,800.0	4,767.6	4,795.5	4,745.0	12.5	14.3	19.95	187.1	631.6	146.6	128.7	17.93	8.176		
4,900.0	4,866.8	4,895.4	4,843.6	12.8	14.6	19.93	191.7	647.0	150.1	131.8	18.31	8.200		
5,000.0	4,966.0	4,995.4	4,942.2	13.1	15.0	19.91	196.3	662.4	153.7	135.0	18.69	8.222		
5,100.0	5,065.2	5,095.3	5,040.9	13.3	15.3	19.89	201.0	677.8	157.2	138.1	19.07	8.243		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1J-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,200.0	5,164.4	5,195.3	5,139.5	13.6	15.6	19.87	205.6	693.2	160.7	141.3	19.45	8.264		
5,300.0	5,263.6	5,295.2	5,238.1	13.9	16.0	19.85	210.2	708.6	164.2	144.4	19.83	8.284		
5,400.0	5,362.7	5,395.1	5,336.8	14.2	16.3	19.84	214.9	724.0	167.7	147.5	20.20	8.303		
5,500.0	5,461.9	5,495.1	5,435.4	14.5	16.6	19.82	219.5	739.4	171.3	150.7	20.58	8.321		
5,600.0	5,561.1	5,595.0	5,534.0	14.8	17.0	19.80	224.1	754.8	174.8	153.8	20.96	8.339		
5,700.0	5,660.3	5,694.9	5,632.7	15.0	17.3	19.79	228.8	770.2	178.3	157.0	21.34	8.356		
5,800.0	5,759.5	5,794.9	5,731.3	15.3	17.6	19.77	233.4	785.6	181.8	160.1	21.72	8.372		
5,900.0	5,858.7	5,894.8	5,829.9	15.6	18.0	19.76	238.0	801.0	185.4	163.3	22.10	8.388		
6,000.0	5,957.8	5,994.8	5,928.6	15.9	18.3	19.75	242.7	816.4	188.9	166.4	22.48	8.403		
6,100.0	6,057.0	6,094.7	6,027.2	16.2	18.6	19.73	247.3	831.8	192.4	169.6	22.86	8.418		
6,200.0	6,156.2	6,194.6	6,125.9	16.5	19.0	19.72	251.9	847.2	195.9	172.7	23.24	8.432		
6,300.0	6,255.4	6,294.6	6,224.5	16.7	19.3	19.71	256.6	862.6	199.5	175.9	23.62	8.446		
6,400.0	6,354.6	6,394.6	6,323.2	17.0	19.6	19.77	261.0	878.0	203.0	179.0	24.00	8.457		
6,500.0	6,453.8	6,494.0	6,421.2	17.3	19.9	7.11	256.1	893.3	206.6	181.8	24.77	8.340		
6,600.0	6,552.8	6,591.4	6,515.7	17.5	20.1	-41.39	238.0	908.1	210.9	185.3	25.60	8.237		
6,700.0	6,650.1	6,687.2	6,605.4	17.7	20.3	-56.76	207.7	922.1	215.7	189.6	26.14	8.253		
6,800.0	6,743.7	6,781.6	6,689.2	17.8	20.4	-61.19	166.3	935.2	221.0	194.7	26.33	8.395		
6,900.0	6,831.8	6,874.6	6,765.8	17.9	20.6	-62.28	114.9	947.1	226.4	200.2	26.16	8.654		
7,000.0	6,912.7	6,966.6	6,834.4	18.0	20.8	-62.15	54.7	957.8	231.6	205.9	25.70	9.012		
7,100.0	6,984.9	7,057.6	6,894.2	18.2	21.0	-61.57	-13.1	967.2	236.6	211.4	25.15	9.407		
7,200.0	7,046.8	7,150.0	6,945.7	18.4	21.3	-60.84	-89.3	975.2	241.0	216.3	24.66	9.772		
7,300.0	7,097.4	7,237.3	6,985.2	18.8	21.6	-60.22	-166.9	981.4	244.6	220.1	24.53	9.971		
7,400.0	7,135.6	7,326.4	7,015.5	19.3	22.0	-59.70	-250.4	986.1	247.4	222.4	25.00	9.898		
7,500.0	7,160.7	7,415.1	7,035.3	19.8	22.5	-59.36	-336.8	989.2	249.2	223.0	26.21	9.510		
7,600.0	7,172.2	7,503.6	7,044.4	20.6	23.1	-59.22	-424.8	990.6	250.1	221.9	28.19	8.872		
7,700.0	7,173.0	7,599.6	7,045.0	21.4	23.8	-59.22	-520.8	990.7	250.1	219.9	30.25	8.269		
7,800.0	7,173.0	7,699.6	7,045.0	22.3	24.6	-59.22	-620.8	990.7	250.1	217.9	32.26	7.753		
7,900.0	7,173.0	7,799.6	7,045.0	23.3	25.6	-59.22	-720.8	990.7	250.1	215.7	34.42	7.266		
8,000.0	7,173.0	7,899.6	7,045.0	24.5	26.6	-59.22	-820.8	990.7	250.1	213.4	36.71	6.814		
8,100.0	7,173.0	7,999.6	7,045.0	25.6	27.7	-59.22	-920.8	990.7	250.1	211.0	39.09	6.398		
8,200.0	7,173.0	8,099.6	7,045.0	26.9	28.8	-59.22	-1,020.8	990.7	250.1	208.6	41.56	6.018		
8,300.0	7,173.0	8,199.6	7,045.0	28.2	30.0	-59.22	-1,120.8	990.7	250.1	206.0	44.09	5.672		
8,400.0	7,173.0	8,299.6	7,045.0	29.5	31.3	-59.22	-1,220.8	990.7	250.1	203.4	46.69	5.357		
8,500.0	7,173.0	8,399.6	7,045.0	30.9	32.6	-59.22	-1,320.8	990.7	250.1	200.8	49.33	5.070		
8,600.0	7,173.0	8,499.6	7,045.0	32.3	34.0	-59.22	-1,420.8	990.7	250.1	198.1	52.01	4.809		
8,700.0	7,173.0	8,599.6	7,045.0	33.8	35.3	-59.22	-1,520.8	990.7	250.1	195.4	54.73	4.570		
8,800.0	7,173.0	8,699.6	7,045.0	35.3	36.8	-59.22	-1,620.8	990.7	250.1	192.6	57.48	4.351		
8,900.0	7,173.0	8,799.6	7,045.0	36.8	38.2	-59.22	-1,720.8	990.7	250.1	189.9	60.26	4.151		
9,000.0	7,173.0	8,899.6	7,045.0	38.3	39.7	-59.22	-1,820.8	990.7	250.1	187.1	63.05	3.967		
9,100.0	7,173.0	8,999.6	7,045.0	39.9	41.2	-59.22	-1,920.8	990.7	250.1	184.2	65.87	3.797		
9,200.0	7,173.0	9,099.6	7,045.0	41.4	42.7	-59.22	-2,020.8	990.7	250.1	181.4	68.70	3.640		
9,300.0	7,173.0	9,199.6	7,045.0	43.0	44.2	-59.22	-2,120.8	990.7	250.1	178.6	71.55	3.495		
9,400.0	7,173.0	9,299.6	7,045.0	44.6	45.8	-59.22	-2,220.8	990.7	250.1	175.7	74.42	3.361		
9,500.0	7,173.0	9,399.6	7,045.0	46.2	47.3	-59.22	-2,320.8	990.7	250.1	172.8	77.29	3.236		
9,600.0	7,173.0	9,499.6	7,045.0	47.8	48.9	-59.22	-2,420.8	990.7	250.1	169.9	80.18	3.119		
9,700.0	7,173.0	9,599.6	7,045.0	49.4	50.5	-59.22	-2,520.8	990.7	250.1	167.0	83.07	3.011		
9,800.0	7,173.0	9,699.6	7,045.0	51.1	52.1	-59.22	-2,620.8	990.7	250.1	164.1	85.98	2.909		
9,900.0	7,173.0	9,799.6	7,045.0	52.7	53.7	-59.22	-2,720.8	990.7	250.1	161.2	88.89	2.814		
10,000.0	7,173.0	9,899.6	7,045.0	54.4	55.3	-59.22	-2,820.8	990.7	250.1	158.3	91.81	2.724		
10,100.0	7,173.0	9,999.6	7,045.0	56.0	56.9	-59.22	-2,920.8	990.7	250.1	155.4	94.73	2.640		
10,200.0	7,173.0	10,099.6	7,045.0	57.7	58.6	-59.22	-3,020.8	990.7	250.1	152.4	97.66	2.561		
10,300.0	7,173.0	10,199.6	7,045.0	59.3	60.2	-59.22	-3,120.8	990.7	250.1	149.5	100.60	2.486		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											S32-T2N-R64W (Newman) - Ruhl 1J-32H-B264 - Hz - Plan #1		Offset Site Error:		0.0 ft
Survey Program:											0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
10,400.0	7,173.0	10,299.6	7,045.0	61.0	61.9	-59.22	-3,220.8	990.7	250.1	146.6	103.54	2.416			
10,500.0	7,173.0	10,399.6	7,045.0	62.7	63.5	-59.22	-3,320.8	990.7	250.1	143.6	106.49	2.349			
10,600.0	7,173.0	10,499.6	7,045.0	64.3	65.2	-59.22	-3,420.8	990.7	250.1	140.7	109.44	2.285			
10,700.0	7,173.0	10,599.6	7,045.0	66.0	66.8	-59.22	-3,520.8	990.7	250.1	137.7	112.39	2.225			
10,800.0	7,173.0	10,699.6	7,045.0	67.7	68.5	-59.22	-3,620.8	990.7	250.1	134.8	115.35	2.168			
10,900.0	7,173.0	10,799.6	7,045.0	69.4	70.2	-59.22	-3,720.8	990.7	250.1	131.8	118.31	2.114			
11,000.0	7,173.0	10,899.6	7,045.0	71.1	71.8	-59.22	-3,820.8	990.7	250.1	128.8	121.27	2.062			
11,100.0	7,173.0	10,999.6	7,045.0	72.8	73.5	-59.22	-3,920.8	990.7	250.1	125.9	124.23	2.013			
11,200.0	7,173.0	11,099.6	7,045.0	74.5	75.2	-59.22	-4,020.8	990.7	250.1	122.9	127.20	1.966			
11,300.0	7,173.0	11,199.6	7,045.0	76.2	76.9	-59.22	-4,120.8	990.7	250.1	119.9	130.17	1.921			
11,400.0	7,173.0	11,299.6	7,045.0	77.9	78.6	-59.22	-4,220.8	990.7	250.1	117.0	133.15	1.878			
11,500.0	7,173.0	11,399.6	7,045.0	79.6	80.3	-59.22	-4,320.8	990.7	250.1	114.0	136.12	1.837			
11,600.0	7,173.0	11,499.6	7,045.0	81.3	81.9	-59.22	-4,420.8	990.7	250.1	111.0	139.10	1.798			
11,700.0	7,173.0	11,599.6	7,045.0	83.0	83.6	-59.22	-4,520.8	990.7	250.1	108.0	142.08	1.760			
11,743.2	7,173.0	11,642.8	7,045.0	83.8	84.4	-59.22	-4,564.0	990.7	250.1	106.7	143.36	1.745 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1K-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.95	0.0	19.9	19.9	19.9	0.00	N/A		
100.0	100.0	100.0	100.0	0.2	0.2	89.95	0.0	19.9	19.9	19.5	0.35	56.899		
200.0	200.0	200.0	200.0	0.3	0.3	89.95	0.0	19.9	19.9	19.2	0.70	28.449		
233.4	233.4	233.4	233.4	0.4	0.4	89.95	0.0	19.9	19.9	19.0	0.81	24.383 CC		
300.0	300.0	299.8	299.8	0.5	0.5	89.81	0.1	20.1	20.1	19.0	1.05	19.173 ES		
400.0	400.0	399.5	399.5	0.7	0.7	19.78	0.5	21.8	21.6	20.2	1.40	15.452		
500.0	500.0	499.1	499.0	0.9	0.9	19.36	1.3	25.1	23.3	21.6	1.74	13.367		
600.0	599.9	598.6	598.4	1.1	1.1	19.47	2.5	30.2	25.1	23.0	2.09	11.998		
700.0	699.8	698.2	697.7	1.2	1.3	20.01	4.2	36.9	27.0	24.5	2.44	11.035		
800.0	799.5	797.7	796.9	1.4	1.5	20.90	6.2	45.3	28.9	26.1	2.80	10.323		
900.0	899.2	897.2	895.8	1.7	1.7	22.06	8.7	55.3	30.9	27.7	3.16	9.776		
1,000.0	998.6	996.6	994.5	1.9	2.0	23.43	11.5	67.1	32.9	29.4	3.53	9.339		
1,100.0	1,097.9	1,096.0	1,092.9	2.1	2.3	24.96	14.8	80.4	35.1	31.2	3.91	8.984		
1,200.0	1,197.0	1,195.4	1,191.1	2.4	2.6	25.86	18.5	95.5	38.4	34.1	4.30	8.936		
1,300.0	1,296.2	1,294.6	1,288.8	2.7	2.9	25.85	22.5	112.1	43.3	38.6	4.68	9.250		
1,400.0	1,395.4	1,393.6	1,386.0	2.9	3.3	25.21	27.0	130.4	49.9	44.8	5.06	9.852		
1,500.0	1,494.6	1,493.3	1,483.8	3.2	3.6	24.46	31.7	149.6	57.3	51.8	5.44	10.527		
1,600.0	1,593.8	1,593.0	1,581.5	3.5	4.0	23.87	36.3	168.8	64.7	58.9	5.82	11.116		
1,700.0	1,693.0	1,692.8	1,679.2	3.8	4.4	23.41	41.0	188.0	72.1	65.9	6.20	11.633		
1,800.0	1,792.1	1,792.5	1,777.0	4.0	4.8	23.03	45.7	207.2	79.5	72.9	6.58	12.090		
1,900.0	1,891.3	1,892.2	1,874.7	4.3	5.1	22.72	50.4	226.4	86.9	80.0	6.96	12.499		
2,000.0	1,990.5	1,991.9	1,972.5	4.6	5.5	22.46	55.1	245.6	94.4	87.0	7.33	12.865		
2,100.0	2,089.7	2,091.7	2,070.2	4.9	5.9	22.23	59.8	264.8	101.8	94.1	7.71	13.195		
2,200.0	2,188.9	2,191.4	2,168.0	5.1	6.3	22.04	64.4	284.0	109.2	101.1	8.09	13.494		
2,300.0	2,288.1	2,291.1	2,265.7	5.4	6.7	21.87	69.1	303.2	116.6	108.2	8.47	13.767		
2,400.0	2,387.2	2,390.8	2,363.5	5.7	7.1	21.72	73.8	322.5	124.1	115.2	8.85	14.016		
2,500.0	2,486.4	2,490.5	2,461.2	6.0	7.4	21.58	78.5	341.7	131.5	122.2	9.23	14.245		
2,600.0	2,585.6	2,590.3	2,558.9	6.3	7.8	21.47	83.2	360.9	138.9	129.3	9.61	14.455		
2,700.0	2,684.8	2,690.0	2,656.7	6.6	8.2	21.36	87.9	380.1	146.3	136.3	9.99	14.650		
2,800.0	2,784.0	2,789.7	2,754.4	6.8	8.6	21.26	92.6	399.3	153.8	143.4	10.37	14.830		
2,900.0	2,883.2	2,889.4	2,852.2	7.1	9.0	21.18	97.2	418.5	161.2	150.4	10.75	14.998		
3,000.0	2,982.3	2,989.2	2,949.9	7.4	9.4	21.10	101.9	437.7	168.6	157.5	11.13	15.154		
3,100.0	3,081.5	3,088.9	3,047.7	7.7	9.8	21.02	106.6	456.9	176.0	164.5	11.51	15.300		
3,200.0	3,180.7	3,188.6	3,145.4	8.0	10.2	20.96	111.3	476.1	183.5	171.6	11.89	15.436		
3,300.0	3,279.9	3,288.3	3,243.1	8.2	10.5	20.90	116.0	495.3	190.9	178.6	12.27	15.564		
3,400.0	3,379.1	3,388.1	3,340.9	8.5	10.9	20.84	120.7	514.5	198.3	185.7	12.64	15.685		
3,500.0	3,478.3	3,487.8	3,438.6	8.8	11.3	20.79	125.4	533.7	205.8	192.7	13.02	15.798		
3,600.0	3,577.4	3,587.5	3,536.4	9.1	11.7	20.74	130.0	553.0	213.2	199.8	13.40	15.905		
3,700.0	3,676.6	3,687.2	3,634.1	9.4	12.1	20.69	134.7	572.2	220.6	206.8	13.78	16.006		
3,800.0	3,775.8	3,787.0	3,731.9	9.7	12.5	20.65	139.4	591.4	228.0	213.9	14.16	16.101		
3,900.0	3,875.0	3,886.7	3,829.6	9.9	12.9	20.61	144.1	610.6	235.5	220.9	14.54	16.192		
4,000.0	3,974.2	3,986.4	3,927.4	10.2	13.3	20.57	148.8	629.8	242.9	228.0	14.92	16.278		
4,100.0	4,073.4	4,086.1	4,025.1	10.5	13.7	20.53	153.5	649.0	250.3	235.0	15.30	16.360		
4,200.0	4,172.5	4,185.8	4,122.8	10.8	14.1	20.50	158.1	668.2	257.8	242.1	15.68	16.437		
4,300.0	4,271.7	4,285.6	4,220.6	11.1	14.4	20.47	162.8	687.4	265.2	249.1	16.06	16.511		
4,400.0	4,370.9	4,385.3	4,318.3	11.4	14.8	20.44	167.5	706.6	272.6	256.2	16.44	16.582		
4,500.0	4,470.1	4,485.0	4,416.1	11.6	15.2	20.41	172.2	725.8	280.1	263.2	16.82	16.649		
4,600.0	4,569.3	4,584.7	4,513.8	11.9	15.6	20.38	176.9	745.0	287.5	270.3	17.20	16.714		
4,700.0	4,668.5	4,684.5	4,611.6	12.2	16.0	20.36	181.6	764.2	294.9	277.3	17.58	16.776		
4,800.0	4,767.6	4,784.2	4,709.3	12.5	16.4	20.33	186.3	783.5	302.3	284.4	17.96	16.835		
4,900.0	4,866.8	4,883.9	4,807.0	12.8	16.8	20.31	190.9	802.7	309.8	291.4	18.34	16.891		
5,000.0	4,966.0	4,983.6	4,904.8	13.1	17.2	20.29	195.6	821.9	317.2	298.5	18.72	16.945		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1K-32H-B264 - 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	5,065.2	5,083.4	5,002.5	13.3	17.6	20.27	200.3	841.1	324.6	305.5	19.10	16.998		
5,200.0	5,164.4	5,183.1	5,100.3	13.6	18.0	20.25	205.0	860.3	332.1	312.6	19.48	17.048		
5,300.0	5,263.6	5,282.8	5,198.0	13.9	18.4	20.23	209.7	879.5	339.5	319.6	19.86	17.096		
5,400.0	5,362.7	5,382.5	5,295.8	14.2	18.7	20.21	214.4	898.7	346.9	326.7	20.24	17.142		
5,500.0	5,461.9	5,482.3	5,393.5	14.5	19.1	20.19	219.1	917.9	354.4	333.7	20.62	17.187		
5,600.0	5,561.1	5,582.0	5,491.3	14.8	19.5	20.18	223.7	937.1	361.8	340.8	21.00	17.230		
5,700.0	5,660.3	5,681.7	5,589.0	15.0	19.9	20.16	228.4	956.3	369.2	347.8	21.38	17.271		
5,800.0	5,759.5	5,781.4	5,686.7	15.3	20.3	20.14	233.1	975.5	376.6	354.9	21.76	17.312		
5,900.0	5,858.7	5,881.1	5,784.5	15.6	20.7	20.13	237.8	994.7	384.1	361.9	22.14	17.350		
6,000.0	5,957.8	5,980.9	5,882.2	15.9	21.1	20.11	242.5	1,014.0	391.5	369.0	22.52	17.388		
6,100.0	6,057.0	6,080.6	5,980.0	16.2	21.5	20.10	247.2	1,033.2	398.9	376.0	22.90	17.424		
6,200.0	6,156.2	6,180.3	6,077.7	16.5	21.9	20.09	251.8	1,052.4	406.4	383.1	23.28	17.459		
6,300.0	6,255.4	6,280.0	6,175.5	16.7	22.3	20.07	256.5	1,071.6	413.8	390.1	23.66	17.492		
6,400.0	6,354.6	6,379.9	6,273.4	17.0	22.7	20.30	259.5	1,090.8	421.2	397.2	24.06	17.506		
6,500.0	6,453.8	6,478.1	6,369.3	17.3	23.0	6.95	250.5	1,109.7	428.8	404.1	24.72	17.344		
6,600.0	6,552.8	6,573.7	6,460.6	17.5	23.2	-42.52	229.0	1,127.6	437.0	411.6	25.41	17.200		
6,700.0	6,650.1	6,667.4	6,546.6	17.7	23.5	-58.76	196.1	1,144.5	445.6	419.7	25.84	17.246		
6,800.0	6,743.7	6,759.4	6,626.2	17.8	23.7	-63.97	153.0	1,160.2	454.3	428.3	25.97	17.491		
6,900.0	6,831.8	6,850.0	6,698.8	17.9	23.9	-65.72	100.7	1,174.4	462.8	437.0	25.83	17.917		
7,000.0	6,912.7	6,939.0	6,763.1	18.0	24.1	-66.15	40.6	1,187.1	470.8	445.4	25.48	18.481		
7,100.0	6,984.9	7,027.1	6,819.2	18.2	24.4	-66.02	-26.4	1,198.1	478.2	453.1	25.10	19.054		
7,200.0	7,046.8	7,114.3	6,866.3	18.4	24.6	-65.67	-99.2	1,207.3	484.6	459.8	24.83	19.519		
7,300.0	7,097.4	7,200.0	6,903.8	18.8	25.0	-65.30	-175.8	1,214.7	489.9	465.0	24.93	19.655		
7,400.0	7,135.6	7,286.8	6,932.3	19.3	25.4	-64.97	-257.6	1,220.3	493.9	468.3	25.61	19.286		
7,500.0	7,160.7	7,372.5	6,950.8	19.8	25.8	-64.75	-341.1	1,223.9	496.5	469.6	26.98	18.406		
7,600.0	7,172.2	7,457.9	6,959.4	20.6	26.3	-64.66	-426.0	1,225.6	497.7	468.7	29.02	17.148		
7,700.0	7,173.0	7,552.7	6,960.0	21.4	26.9	-64.67	-520.8	1,225.8	497.8	466.6	31.16	15.973		
7,800.0	7,173.0	7,652.7	6,960.0	22.3	27.6	-64.67	-620.8	1,225.8	497.8	464.5	33.29	14.952		
7,900.0	7,173.0	7,752.7	6,960.0	23.3	28.5	-64.67	-720.8	1,225.8	497.8	462.2	35.58	13.991		
8,000.0	7,173.0	7,852.7	6,960.0	24.5	29.4	-64.67	-820.8	1,225.8	497.8	459.8	37.99	13.103		
8,100.0	7,173.0	7,952.7	6,960.0	25.6	30.4	-64.67	-920.8	1,225.8	497.8	457.3	40.51	12.288		
8,200.0	7,173.0	8,052.7	6,960.0	26.9	31.4	-64.67	-1,020.8	1,225.8	497.8	454.7	43.11	11.545		
8,300.0	7,173.0	8,152.7	6,960.0	28.2	32.5	-64.67	-1,120.8	1,225.8	497.8	452.0	45.79	10.870		
8,400.0	7,173.0	8,252.7	6,960.0	29.5	33.7	-64.67	-1,220.8	1,225.8	497.8	449.2	48.53	10.257		
8,500.0	7,173.0	8,352.7	6,960.0	30.9	34.9	-64.67	-1,320.8	1,225.8	497.8	446.5	51.32	9.700		
8,600.0	7,173.0	8,452.7	6,960.0	32.3	36.2	-64.67	-1,420.8	1,225.8	497.8	443.6	54.15	9.193		
8,700.0	7,173.0	8,552.7	6,960.0	33.8	37.5	-64.67	-1,520.8	1,225.8	497.8	440.8	57.02	8.730		
8,800.0	7,173.0	8,652.7	6,960.0	35.3	38.8	-64.67	-1,620.8	1,225.8	497.8	437.9	59.91	8.308		
8,900.0	7,173.0	8,752.7	6,960.0	36.8	40.2	-64.67	-1,720.8	1,225.8	497.8	434.9	62.84	7.921		
9,000.0	7,173.0	8,852.7	6,960.0	38.3	41.6	-64.67	-1,820.8	1,225.8	497.8	432.0	65.79	7.566		
9,100.0	7,173.0	8,952.7	6,960.0	39.9	43.0	-64.67	-1,920.8	1,225.8	497.8	429.0	68.76	7.240		
9,200.0	7,173.0	9,052.7	6,960.0	41.4	44.4	-64.67	-2,020.8	1,225.8	497.8	426.0	71.74	6.938		
9,300.0	7,173.0	9,152.7	6,960.0	43.0	45.9	-64.67	-2,120.8	1,225.8	497.8	423.0	74.74	6.660		
9,400.0	7,173.0	9,252.7	6,960.0	44.6	47.4	-64.67	-2,220.8	1,225.8	497.8	420.0	77.76	6.401		
9,500.0	7,173.0	9,352.7	6,960.0	46.2	48.9	-64.67	-2,320.8	1,225.8	497.8	417.0	80.79	6.162		
9,600.0	7,173.0	9,452.7	6,960.0	47.8	50.4	-64.67	-2,420.8	1,225.8	497.8	413.9	83.83	5.938		
9,700.0	7,173.0	9,552.7	6,960.0	49.4	52.0	-64.67	-2,520.8	1,225.8	497.8	410.9	86.87	5.730		
9,800.0	7,173.0	9,652.7	6,960.0	51.1	53.5	-64.67	-2,620.8	1,225.8	497.8	407.8	89.93	5.535		
9,900.0	7,173.0	9,752.7	6,960.0	52.7	55.1	-64.67	-2,720.8	1,225.8	497.8	404.8	93.00	5.353		
10,000.0	7,173.0	9,852.7	6,960.0	54.4	56.7	-64.67	-2,820.8	1,225.8	497.8	401.7	96.07	5.181		
10,100.0	7,173.0	9,952.7	6,960.0	56.0	58.2	-64.67	-2,920.8	1,225.8	497.8	398.6	99.15	5.021		
10,200.0	7,173.0	10,052.7	6,960.0	57.7	59.8	-64.67	-3,020.8	1,225.8	497.8	395.5	102.23	4.869		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1K-32H-B264 - 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	7,173.0	10,152.7	6,960.0	59.3	61.4	-64.67	-3,120.8	1,225.8	497.8	392.5	105.32	4.726		
10,400.0	7,173.0	10,252.7	6,960.0	61.0	63.1	-64.67	-3,220.8	1,225.8	497.8	389.4	108.42	4.591		
10,500.0	7,173.0	10,352.7	6,960.0	62.7	64.7	-64.67	-3,320.8	1,225.8	497.8	386.3	111.52	4.464		
10,600.0	7,173.0	10,452.7	6,960.0	64.3	66.3	-64.67	-3,420.8	1,225.8	497.8	383.2	114.62	4.343		
10,700.0	7,173.0	10,552.7	6,960.0	66.0	67.9	-64.67	-3,520.8	1,225.8	497.8	380.0	117.73	4.228		
10,800.0	7,173.0	10,652.7	6,960.0	67.7	69.6	-64.67	-3,620.8	1,225.8	497.8	376.9	120.84	4.119		
10,900.0	7,173.0	10,752.7	6,960.0	69.4	71.2	-64.67	-3,720.8	1,225.8	497.8	373.8	123.95	4.016		
11,000.0	7,173.0	10,852.7	6,960.0	71.1	72.9	-64.67	-3,820.8	1,225.8	497.8	370.7	127.07	3.917		
11,100.0	7,173.0	10,952.7	6,960.0	72.8	74.5	-64.67	-3,920.8	1,225.8	497.8	367.6	130.19	3.823		
11,200.0	7,173.0	11,052.7	6,960.0	74.5	76.2	-64.67	-4,020.8	1,225.8	497.8	364.5	133.31	3.734		
11,300.0	7,173.0	11,152.7	6,960.0	76.2	77.8	-64.67	-4,120.8	1,225.8	497.8	361.3	136.44	3.648		
11,400.0	7,173.0	11,252.7	6,960.0	77.9	79.5	-64.67	-4,220.8	1,225.8	497.8	358.2	139.56	3.567		
11,500.0	7,173.0	11,352.7	6,960.0	79.6	81.2	-64.67	-4,320.8	1,225.8	497.8	355.1	142.69	3.488		
11,600.0	7,173.0	11,452.7	6,960.0	81.3	82.9	-64.67	-4,420.8	1,225.8	497.8	352.0	145.82	3.414		
11,700.0	7,173.0	11,552.7	6,960.0	83.0	84.5	-64.67	-4,520.8	1,225.8	497.8	348.8	148.96	3.342		
11,743.2	7,173.0	11,595.9	6,960.0	83.8	85.3	-64.67	-4,564.0	1,225.8	497.8	347.5	150.31	3.312 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1L-32H-B264 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.67	-0.3	29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	90.67	-0.3	29.9	29.9	29.6	0.35	85.754		
200.0	200.0	200.0	200.0	0.3	0.3	90.67	-0.3	29.9	29.9	29.2	0.70	42.877 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	90.32	-0.2	30.8	30.8	29.7	1.05	29.403		
400.0	400.0	398.9	398.9	0.7	0.7	20.38	0.3	33.3	33.1	31.7	1.39	23.756		
500.0	500.0	498.3	498.2	0.9	0.9	20.00	1.2	37.5	35.8	34.0	1.74	20.511		
600.0	599.9	597.6	597.3	1.1	1.1	20.09	2.4	43.4	38.4	36.3	2.09	18.371		
700.0	699.8	696.9	696.3	1.2	1.3	20.53	4.0	51.0	41.2	38.7	2.44	16.859		
800.0	799.5	796.1	795.1	1.4	1.5	21.27	5.9	60.3	44.0	41.2	2.80	15.734		
900.0	899.2	895.3	893.6	1.7	1.8	22.25	8.1	71.2	46.9	43.8	3.16	14.863		
1,000.0	998.6	994.5	991.9	1.9	2.0	23.42	10.7	83.8	49.9	46.4	3.52	14.164		
1,100.0	1,097.9	1,093.6	1,089.9	2.1	2.3	24.73	13.6	98.0	53.0	49.1	3.90	13.588		
1,200.0	1,197.0	1,192.5	1,187.6	2.4	2.7	25.67	16.9	113.9	57.3	53.0	4.29	13.352		
1,300.0	1,296.2	1,291.4	1,284.8	2.7	3.0	26.02	20.5	131.4	63.2	58.5	4.68	13.505		
1,400.0	1,395.4	1,390.0	1,381.4	2.9	3.4	25.90	24.4	150.6	70.7	65.7	5.06	13.965		
1,500.0	1,494.6	1,488.3	1,477.5	3.2	3.8	25.45	28.6	171.2	79.9	74.5	5.45	14.672		
1,600.0	1,593.8	1,587.8	1,574.4	3.5	4.2	24.93	33.1	193.0	90.0	84.2	5.83	15.440		
1,700.0	1,693.0	1,687.3	1,671.4	3.8	4.6	24.52	37.6	214.8	100.1	93.9	6.21	16.114		
1,800.0	1,792.1	1,786.7	1,768.4	4.0	5.0	24.18	42.0	236.6	110.2	103.6	6.59	16.710		
1,900.0	1,891.3	1,886.2	1,865.3	4.3	5.4	23.90	46.5	258.3	120.3	113.3	6.98	17.241		
2,000.0	1,990.5	1,985.7	1,962.3	4.6	5.9	23.66	51.0	280.1	130.4	123.0	7.36	17.717		
2,100.0	2,089.7	2,085.2	2,059.3	4.9	6.3	23.46	55.5	301.9	140.5	132.7	7.74	18.145		
2,200.0	2,188.9	2,184.7	2,156.2	5.1	6.7	23.28	59.9	323.7	150.6	142.4	8.12	18.533		
2,300.0	2,288.1	2,284.2	2,253.2	5.4	7.1	23.13	64.4	345.5	160.7	152.2	8.51	18.887		
2,400.0	2,387.2	2,383.7	2,350.2	5.7	7.6	22.99	68.9	367.3	170.8	161.9	8.89	19.209		
2,500.0	2,486.4	2,483.2	2,447.2	6.0	8.0	22.87	73.3	389.1	180.9	171.6	9.27	19.505		
2,600.0	2,585.6	2,582.6	2,544.1	6.3	8.4	22.76	77.8	410.8	191.0	181.3	9.66	19.778		
2,700.0	2,684.8	2,682.1	2,641.1	6.6	8.8	22.66	82.3	432.6	201.1	191.1	10.04	20.029		
2,800.0	2,784.0	2,781.6	2,738.1	6.8	9.3	22.58	86.7	454.4	211.2	200.8	10.42	20.263		
2,900.0	2,883.2	2,881.1	2,835.0	7.1	9.7	22.50	91.2	476.2	221.3	210.5	10.81	20.479		
3,000.0	2,982.3	2,980.6	2,932.0	7.4	10.1	22.42	95.7	498.0	231.4	220.2	11.19	20.681		
3,100.0	3,081.5	3,080.1	3,029.0	7.7	10.6	22.36	100.1	519.8	241.5	229.9	11.57	20.869		
3,200.0	3,180.7	3,179.6	3,125.9	8.0	11.0	22.29	104.6	541.5	251.6	239.7	11.96	21.045		
3,300.0	3,279.9	3,279.1	3,222.9	8.2	11.4	22.24	109.1	563.3	261.7	249.4	12.34	21.211		
3,400.0	3,379.1	3,378.5	3,319.9	8.5	11.9	22.19	113.6	585.1	271.8	259.1	12.72	21.366		
3,500.0	3,478.3	3,478.0	3,416.9	8.8	12.3	22.14	118.0	606.9	281.9	268.8	13.11	21.512		
3,600.0	3,577.4	3,577.5	3,513.8	9.1	12.7	22.09	122.5	628.7	292.1	278.6	13.49	21.650		
3,700.0	3,676.6	3,677.0	3,610.8	9.4	13.2	22.05	127.0	650.5	302.2	288.3	13.87	21.780		
3,800.0	3,775.8	3,776.5	3,707.8	9.7	13.6	22.01	131.4	672.2	312.3	298.0	14.26	21.903		
3,900.0	3,875.0	3,876.0	3,804.7	9.9	14.0	21.97	135.9	694.0	322.4	307.7	14.64	22.020		
4,000.0	3,974.2	3,975.5	3,901.7	10.2	14.4	21.94	140.4	715.8	332.5	317.5	15.02	22.130		
4,100.0	4,073.4	4,075.0	3,998.7	10.5	14.9	21.90	144.8	737.6	342.6	327.2	15.41	22.236		
4,200.0	4,172.5	4,174.4	4,095.7	10.8	15.3	21.87	149.3	759.4	352.7	336.9	15.79	22.336		
4,300.0	4,271.7	4,273.9	4,192.6	11.1	15.7	21.84	153.8	781.2	362.8	346.6	16.17	22.431		
4,400.0	4,370.9	4,373.4	4,289.6	11.4	16.2	21.82	158.2	803.0	372.9	356.4	16.56	22.522		
4,500.0	4,470.1	4,472.9	4,386.6	11.6	16.6	21.79	162.7	824.7	383.0	366.1	16.94	22.609		
4,600.0	4,569.3	4,572.4	4,483.5	11.9	17.0	21.77	167.2	846.5	393.1	375.8	17.33	22.691		
4,700.0	4,668.5	4,671.9	4,580.5	12.2	17.5	21.74	171.7	868.3	403.2	385.5	17.71	22.771		
4,800.0	4,767.6	4,771.4	4,677.5	12.5	17.9	21.72	176.1	890.1	413.4	395.3	18.09	22.847		
4,900.0	4,866.8	4,870.9	4,774.4	12.8	18.3	21.70	180.6	911.9	423.5	405.0	18.48	22.920		
5,000.0	4,966.0	4,970.3	4,871.4	13.1	18.8	21.68	185.1	933.7	433.6	414.7	18.86	22.989		
5,100.0	5,065.2	5,069.8	4,968.4	13.3	19.2	21.66	189.5	955.4	443.7	424.4	19.24	23.056		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1L-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 1L-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S32-T2N-R64W (Newman) - Ruhl 1L-32H-B264 - 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	5,164.4	5,169.3	5,065.4	13.6	19.6	21.64	194.0	977.2	453.8	434.2	19.63	23.121		
5,300.0	5,263.6	5,268.8	5,162.3	13.9	20.1	21.62	198.5	999.0	463.9	443.9	20.01	23.183		
5,400.0	5,362.7	5,368.3	5,259.3	14.2	20.5	21.61	202.9	1,020.8	474.0	453.6	20.39	23.242		
5,500.0	5,461.9	5,467.8	5,356.3	14.5	20.9	21.59	207.4	1,042.6	484.1	463.3	20.78	23.300		
5,600.0	5,561.1	5,567.3	5,453.2	14.8	21.4	21.57	211.9	1,064.4	494.2	473.1	21.16	23.355		
5,700.0	5,660.3	5,666.8	5,550.2	15.0	21.8	21.56	216.3	1,086.1	504.3	482.8	21.55	23.408		
5,800.0	5,759.5	5,766.2	5,647.2	15.3	22.2	21.54	220.8	1,107.9	514.4	492.5	21.93	23.460		
5,900.0	5,858.7	5,865.7	5,744.1	15.6	22.7	21.53	225.3	1,129.7	524.6	502.2	22.31	23.509		
6,000.0	5,957.8	5,965.2	5,841.1	15.9	23.1	21.52	229.8	1,151.5	534.7	512.0	22.70	23.557		
6,100.0	6,057.0	6,064.7	5,938.1	16.2	23.5	21.50	234.2	1,173.3	544.8	521.7	23.08	23.604		
6,200.0	6,156.2	6,164.2	6,035.1	16.5	24.0	21.49	238.7	1,195.1	554.9	531.4	23.46	23.649		
6,300.0	6,255.4	6,263.7	6,132.0	16.7	24.4	21.48	243.2	1,216.8	565.0	541.1	23.85	23.692		
6,400.0	6,354.6	6,363.2	6,229.0	17.0	24.8	21.47	247.6	1,238.6	575.1	550.9	24.23	23.734		
6,500.0	6,453.8	6,462.7	6,326.0	17.3	25.3	6.37	252.1	1,260.4	585.2	560.6	24.65	23.745		
6,600.0	6,552.8	6,561.5	6,422.3	17.5	25.7	-46.04	256.5	1,282.1	595.2	570.3	24.89	23.912		
6,700.0	6,650.1	6,660.3	6,518.7	17.7	26.1	-65.91	256.8	1,303.7	605.5	580.6	24.83	24.384		
6,800.0	6,743.7	6,762.1	6,617.0	17.8	26.5	-74.52	243.1	1,325.8	616.0	591.3	24.69	24.948		
6,900.0	6,831.8	6,867.1	6,715.4	17.9	26.8	-79.40	214.2	1,347.9	626.6	602.0	24.57	25.499		
7,000.0	6,912.7	6,975.5	6,811.5	18.0	27.1	-82.63	169.2	1,369.5	636.9	612.3	24.57	25.919		
7,100.0	6,984.9	7,087.5	6,902.7	18.2	27.4	-84.97	107.8	1,390.0	646.6	621.8	24.78	26.092		
7,200.0	7,046.8	7,202.9	6,985.7	18.4	27.8	-86.72	30.0	1,408.6	655.3	630.0	25.28	25.922		
7,300.0	7,097.4	7,321.7	7,057.3	18.8	28.1	-88.04	-63.3	1,424.7	662.8	636.7	26.13	25.367		
7,400.0	7,135.6	7,443.4	7,114.0	19.3	28.6	-89.01	-170.1	1,437.5	668.7	641.4	27.34	24.455		
7,500.0	7,160.7	7,567.4	7,152.9	19.8	29.1	-89.64	-287.3	1,446.2	672.7	643.8	28.91	23.266		
7,600.0	7,172.2	7,692.9	7,171.5	20.6	29.7	-89.96	-411.2	1,450.4	674.7	643.9	30.78	21.917		
7,700.0	7,173.0	7,802.6	7,173.0	21.4	30.3	-90.00	-520.8	1,450.7	674.8	641.9	32.95	20.478		
7,800.0	7,173.0	7,902.6	7,173.0	22.3	31.0	-90.00	-620.8	1,450.7	674.8	639.5	35.35	19.090		
7,900.0	7,173.0	8,002.6	7,173.0	23.3	31.7	-90.00	-720.8	1,450.7	674.8	636.9	37.92	17.796		
8,000.0	7,173.0	8,102.6	7,173.0	24.5	32.5	-90.00	-820.8	1,450.7	674.8	634.2	40.63	16.608		
8,100.0	7,173.0	8,202.6	7,173.0	25.6	33.4	-90.00	-920.8	1,450.7	674.8	631.4	43.46	15.529		
8,200.0	7,173.0	8,302.6	7,173.0	26.9	34.4	-90.00	-1,020.8	1,450.7	674.8	628.5	46.38	14.552		
8,300.0	7,173.0	8,402.6	7,173.0	28.2	35.4	-90.00	-1,120.8	1,450.7	674.8	625.5	49.37	13.669		
8,400.0	7,173.0	8,502.6	7,173.0	29.5	36.5	-90.00	-1,220.8	1,450.7	674.8	622.4	52.43	12.871		
8,500.0	7,173.0	8,602.6	7,173.0	30.9	37.6	-90.00	-1,320.8	1,450.7	674.8	619.3	55.54	12.150		
8,600.0	7,173.0	8,702.6	7,173.0	32.3	38.7	-90.00	-1,420.8	1,450.7	674.8	616.1	58.70	11.497		
8,700.0	7,173.0	8,802.6	7,173.0	33.8	40.0	-90.00	-1,520.8	1,450.7	674.8	613.0	61.89	10.903		
8,800.0	7,173.0	8,902.6	7,173.0	35.3	41.2	-90.00	-1,620.8	1,450.7	674.8	609.7	65.12	10.363		
8,900.0	7,173.0	9,002.6	7,173.0	36.8	42.5	-90.00	-1,720.8	1,450.7	674.8	606.5	68.38	9.870		
9,000.0	7,173.0	9,102.6	7,173.0	38.3	43.8	-90.00	-1,820.8	1,450.7	674.8	603.2	71.65	9.418		
9,100.0	7,173.0	9,202.6	7,173.0	39.9	45.2	-90.00	-1,920.8	1,450.7	674.8	599.9	74.95	9.004		
9,200.0	7,173.0	9,302.6	7,173.0	41.4	46.6	-90.00	-2,020.8	1,450.7	674.8	596.6	78.27	8.622		
9,300.0	7,173.0	9,402.6	7,173.0	43.0	48.0	-90.00	-2,120.8	1,450.7	674.8	593.2	81.60	8.270		
9,400.0	7,173.0	9,502.6	7,173.0	44.6	49.4	-90.00	-2,220.8	1,450.7	674.8	589.9	84.95	7.944		
9,500.0	7,173.0	9,602.6	7,173.0	46.2	50.8	-90.00	-2,320.8	1,450.7	674.8	586.5	88.31	7.642		
9,600.0	7,173.0	9,702.6	7,173.0	47.8	52.3	-90.00	-2,420.8	1,450.7	674.8	583.2	91.68	7.361		
9,700.0	7,173.0	9,802.6	7,173.0	49.4	53.8	-90.00	-2,520.8	1,450.7	674.8	579.8	95.06	7.099		
9,800.0	7,173.0	9,902.6	7,173.0	51.1	55.3	-90.00	-2,620.8	1,450.7	674.8	576.4	98.45	6.854		
9,900.0	7,173.0	10,002.6	7,173.0	52.7	56.8	-90.00	-2,720.8	1,450.7	674.8	573.0	101.85	6.626		
10,000.0	7,173.0	10,102.6	7,173.0	54.4	58.3	-90.00	-2,820.8	1,450.7	674.8	569.6	105.26	6.411		
10,100.0	7,173.0	10,202.6	7,173.0	56.0	59.9	-90.00	-2,920.8	1,450.7	674.8	566.2	108.67	6.210		
10,200.0	7,173.0	10,302.6	7,173.0	57.7	61.4	-90.00	-3,020.8	1,450.7	674.8	562.8	112.09	6.021		
10,300.0	7,173.0	10,402.6	7,173.0	59.3	63.0	-90.00	-3,120.8	1,450.7	674.8	559.3	115.51	5.842		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 11-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 11-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											S32-T2N-R64W (Newman) - Ruhl 1L-32H-B264 - Hz - Plan #1			Offset Site Error:		0.0 ft
Survey Program:											0-Geolink MWD			Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)						
10,400.0	7,173.0	10,502.6	7,173.0	61.0	64.6	-90.00	-3,220.8	1,450.7	674.8	555.9	118.94	5.674				
10,500.0	7,173.0	10,602.6	7,173.0	62.7	66.1	-90.00	-3,320.8	1,450.7	674.8	552.5	122.37	5.515				
10,600.0	7,173.0	10,702.6	7,173.0	64.3	67.7	-90.00	-3,420.8	1,450.7	674.8	549.0	125.81	5.364				
10,700.0	7,173.0	10,802.6	7,173.0	66.0	69.3	-90.00	-3,520.8	1,450.7	674.8	545.6	129.25	5.221				
10,800.0	7,173.0	10,902.6	7,173.0	67.7	70.9	-90.00	-3,620.8	1,450.7	674.8	542.2	132.69	5.086				
10,900.0	7,173.0	11,002.6	7,173.0	69.4	72.6	-90.00	-3,720.8	1,450.7	674.8	538.7	136.14	4.957				
11,000.0	7,173.0	11,102.6	7,173.0	71.1	74.2	-90.00	-3,820.8	1,450.7	674.9	535.3	139.59	4.835				
11,100.0	7,173.0	11,202.6	7,173.0	72.8	75.8	-90.00	-3,920.8	1,450.7	674.9	531.8	143.04	4.718				
11,200.0	7,173.0	11,302.6	7,173.0	74.5	77.4	-90.00	-4,020.8	1,450.7	674.9	528.4	146.50	4.607				
11,300.0	7,173.0	11,402.6	7,173.0	76.2	79.1	-90.00	-4,120.8	1,450.7	674.9	524.9	149.96	4.500				
11,400.0	7,173.0	11,502.6	7,173.0	77.9	80.7	-90.00	-4,220.8	1,450.7	674.9	521.4	153.42	4.399				
11,500.0	7,173.0	11,602.6	7,173.0	79.6	82.4	-90.00	-4,320.8	1,450.7	674.9	518.0	156.88	4.302				
11,600.0	7,173.0	11,702.6	7,173.0	81.3	84.0	-90.00	-4,420.8	1,450.7	674.9	514.5	160.34	4.209				
11,700.0	7,173.0	11,802.6	7,173.0	83.0	85.7	-90.00	-4,520.8	1,450.7	674.9	511.0	163.81	4.120				
11,743.2	7,173.0	11,845.8	7,173.0	83.8	86.4	-90.00	-4,564.0	1,450.7	674.9	509.5	165.31	4.082 SF				

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Ruhl 1I-32H-B264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	KB @ 4955.0ft (no KB)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Ruhl 1I-32H-B264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB @ 4955.0ft (no KB)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Ruhl 1I-32H-B264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

