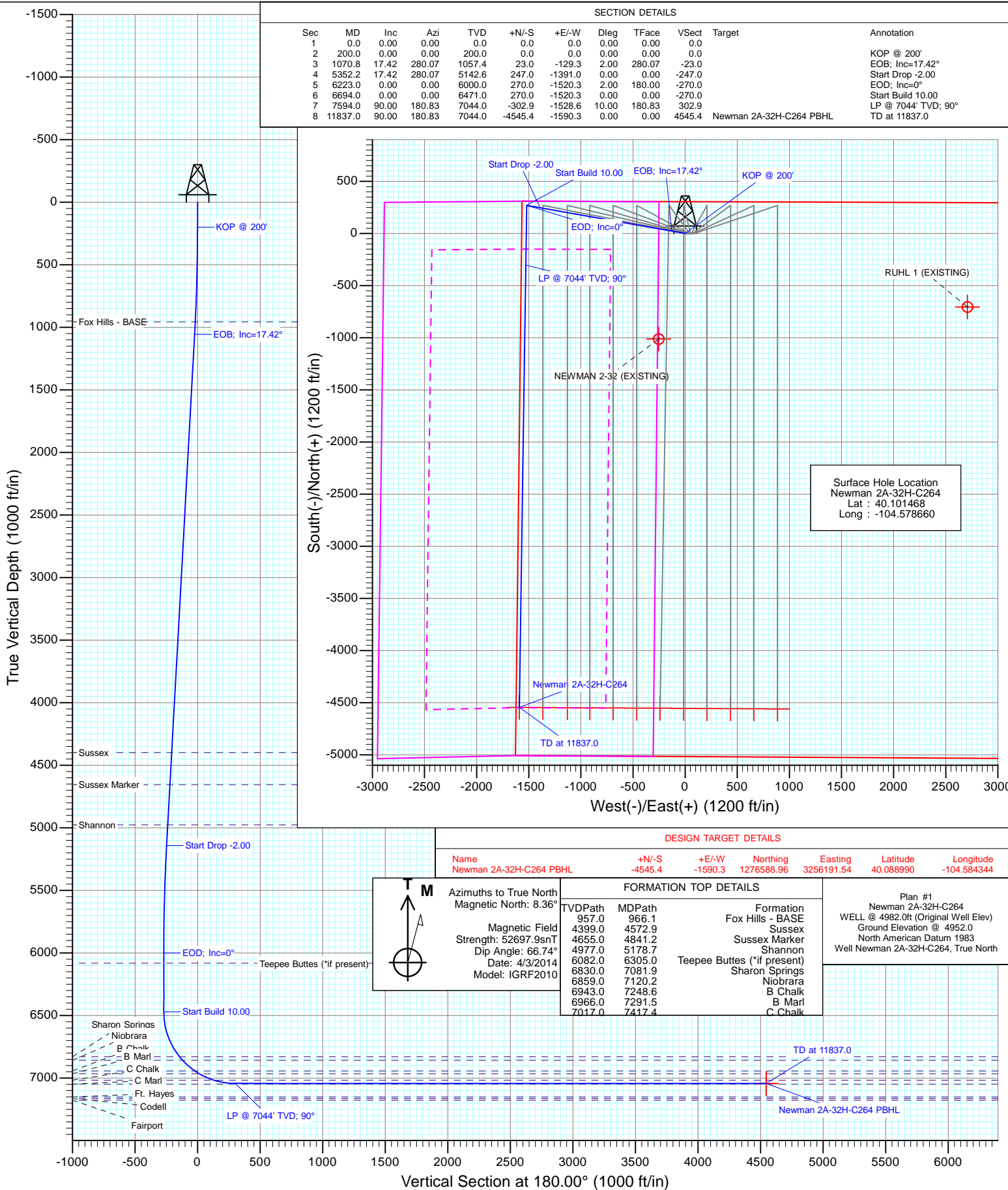




Project: DJ Wattenberg  
Site: S32-T2N-R64W (Newman)  
Well: Newman 2A-32H-C264  
Wellbore: HZ  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Newman 2A-32H-C264	<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	Newman 2A-32H-C264					
Well Position	+N/-S	0.0 ft	Northing:	1,281,150.65 ft	Latitude:	40.101468
	+E/-W	0.0 ft	Easting:	3,257,734.55 ft	Longitude:	-104.578660
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,952.0 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	4/3/2014	8.36	66.74	52,698

<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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,070.8	17.42	280.07	1,057.4	23.0	-129.3	2.00	2.00	0.00	280.07	
5,352.2	17.42	280.07	5,142.6	247.0	-1,391.0	0.00	0.00	0.00	0.00	
6,223.0	0.00	0.00	6,000.0	270.0	-1,520.3	2.00	-2.00	0.00	180.00	
6,694.0	0.00	0.00	6,471.0	270.0	-1,520.3	0.00	0.00	0.00	0.00	
7,594.0	90.00	180.83	7,044.0	-302.9	-1,528.6	10.00	10.00	0.00	180.83	
11,837.0	90.00	180.83	7,044.0	-4,545.4	-1,590.3	0.00	0.00	0.00	0.00	Newman 2A-32H-C264

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Newman 2A-32H-C264	<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	KOP @ 200'
300.0	2.00	280.07	300.0	0.3	-1.7	-0.3	2.00	2.00	
400.0	4.00	280.07	399.8	1.2	-6.9	-1.2	2.00	2.00	
500.0	6.00	280.07	499.5	2.7	-15.5	-2.7	2.00	2.00	
600.0	8.00	280.07	598.7	4.9	-27.5	-4.9	2.00	2.00	
700.0	10.00	280.07	697.5	7.6	-42.9	-7.6	2.00	2.00	
800.0	12.00	280.07	795.6	10.9	-61.6	-10.9	2.00	2.00	
900.0	14.00	280.07	893.1	14.9	-83.8	-14.9	2.00	2.00	
966.1	15.32	280.07	957.0	17.8	-100.3	-17.8	2.00	2.00	Fox Hills - BASE
1,000.0	16.00	280.07	989.6	19.4	-109.3	-19.4	2.00	2.00	
1,070.8	17.42	280.07	1,057.4	23.0	-129.3	-23.0	2.00	2.00	EOB; Inc=17.42°
1,100.0	17.42	280.07	1,085.3	24.5	-137.9	-24.5	0.00	0.00	
1,200.0	17.42	280.07	1,180.7	29.7	-167.4	-29.7	0.00	0.00	
1,300.0	17.42	280.07	1,276.1	35.0	-196.9	-35.0	0.00	0.00	
1,400.0	17.42	280.07	1,371.6	40.2	-226.3	-40.2	0.00	0.00	
1,500.0	17.42	280.07	1,467.0	45.4	-255.8	-45.4	0.00	0.00	
1,600.0	17.42	280.07	1,562.4	50.7	-285.3	-50.7	0.00	0.00	
1,700.0	17.42	280.07	1,657.8	55.9	-314.7	-55.9	0.00	0.00	
1,800.0	17.42	280.07	1,753.2	61.1	-344.2	-61.1	0.00	0.00	
1,900.0	17.42	280.07	1,848.6	66.4	-373.7	-66.4	0.00	0.00	
2,000.0	17.42	280.07	1,944.1	71.6	-403.1	-71.6	0.00	0.00	
2,100.0	17.42	280.07	2,039.5	76.8	-432.6	-76.8	0.00	0.00	
2,200.0	17.42	280.07	2,134.9	82.1	-462.1	-82.1	0.00	0.00	
2,300.0	17.42	280.07	2,230.3	87.3	-491.5	-87.3	0.00	0.00	
2,400.0	17.42	280.07	2,325.7	92.5	-521.0	-92.5	0.00	0.00	
2,500.0	17.42	280.07	2,421.1	97.8	-550.5	-97.8	0.00	0.00	
2,600.0	17.42	280.07	2,516.6	103.0	-580.0	-103.0	0.00	0.00	
2,700.0	17.42	280.07	2,612.0	108.2	-609.4	-108.2	0.00	0.00	
2,800.0	17.42	280.07	2,707.4	113.5	-638.9	-113.5	0.00	0.00	
2,900.0	17.42	280.07	2,802.8	118.7	-668.4	-118.7	0.00	0.00	
3,000.0	17.42	280.07	2,898.2	123.9	-697.8	-123.9	0.00	0.00	
3,100.0	17.42	280.07	2,993.6	129.2	-727.3	-129.2	0.00	0.00	
3,200.0	17.42	280.07	3,089.0	134.4	-756.8	-134.4	0.00	0.00	
3,300.0	17.42	280.07	3,184.5	139.6	-786.2	-139.6	0.00	0.00	
3,400.0	17.42	280.07	3,279.9	144.9	-815.7	-144.9	0.00	0.00	
3,500.0	17.42	280.07	3,375.3	150.1	-845.2	-150.1	0.00	0.00	
3,600.0	17.42	280.07	3,470.7	155.3	-874.6	-155.3	0.00	0.00	
3,700.0	17.42	280.07	3,566.1	160.6	-904.1	-160.6	0.00	0.00	
3,800.0	17.42	280.07	3,661.5	165.8	-933.6	-165.8	0.00	0.00	
3,900.0	17.42	280.07	3,757.0	171.0	-963.1	-171.0	0.00	0.00	
4,000.0	17.42	280.07	3,852.4	176.3	-992.5	-176.3	0.00	0.00	
4,100.0	17.42	280.07	3,947.8	181.5	-1,022.0	-181.5	0.00	0.00	
4,200.0	17.42	280.07	4,043.2	186.7	-1,051.5	-186.7	0.00	0.00	
4,300.0	17.42	280.07	4,138.6	192.0	-1,080.9	-192.0	0.00	0.00	
4,400.0	17.42	280.07	4,234.0	197.2	-1,110.4	-197.2	0.00	0.00	
4,500.0	17.42	280.07	4,329.5	202.4	-1,139.9	-202.4	0.00	0.00	
4,572.9	17.42	280.07	4,399.0	206.3	-1,161.3	-206.3	0.00	0.00	Sussex
4,600.0	17.42	280.07	4,424.9	207.7	-1,169.3	-207.7	0.00	0.00	
4,700.0	17.42	280.07	4,520.3	212.9	-1,198.8	-212.9	0.00	0.00	
4,800.0	17.42	280.07	4,615.7	218.1	-1,228.3	-218.1	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Newman 2A-32H-C264	<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
4,841.2	17.42	280.07	4,655.0	220.3	-1,240.4	-220.3	0.00	0.00	Sussex Marker
4,900.0	17.42	280.07	4,711.1	223.4	-1,257.7	-223.4	0.00	0.00	
5,000.0	17.42	280.07	4,806.5	228.6	-1,287.2	-228.6	0.00	0.00	
5,100.0	17.42	280.07	4,901.9	233.8	-1,316.7	-233.8	0.00	0.00	
5,178.7	17.42	280.07	4,977.0	238.0	-1,339.9	-238.0	0.00	0.00	Shannon
5,200.0	17.42	280.07	4,997.4	239.1	-1,346.2	-239.1	0.00	0.00	
5,300.0	17.42	280.07	5,092.8	244.3	-1,375.6	-244.3	0.00	0.00	
5,352.2	17.42	280.07	5,142.6	247.0	-1,391.0	-247.0	0.00	0.00	Start Drop -2.00
5,400.0	16.46	280.07	5,188.3	249.5	-1,404.7	-249.5	2.00	-2.00	
5,500.0	14.46	280.07	5,284.7	254.1	-1,431.0	-254.1	2.00	-2.00	
5,600.0	12.46	280.07	5,381.9	258.2	-1,453.9	-258.2	2.00	-2.00	
5,700.0	10.46	280.07	5,479.9	261.7	-1,473.4	-261.7	2.00	-2.00	
5,800.0	8.46	280.07	5,578.6	264.6	-1,489.6	-264.6	2.00	-2.00	
5,900.0	6.46	280.07	5,677.7	266.8	-1,502.4	-266.8	2.00	-2.00	
6,000.0	4.46	280.07	5,777.3	268.5	-1,511.8	-268.5	2.00	-2.00	
6,100.0	2.46	280.07	5,877.1	269.5	-1,517.7	-269.5	2.00	-2.00	
6,200.0	0.46	280.07	5,977.0	270.0	-1,520.2	-270.0	2.00	-2.00	
6,223.0	0.00	0.00	6,000.0	270.0	-1,520.3	-270.0	2.00	-2.00	EOD; Inc=0°
6,300.0	0.00	0.00	6,077.0	270.0	-1,520.3	-270.0	0.00	0.00	
6,305.0	0.00	0.00	6,082.0	270.0	-1,520.3	-270.0	0.00	0.00	Teepee Buttes (*if present)
6,400.0	0.00	0.00	6,177.0	270.0	-1,520.3	-270.0	0.00	0.00	
6,500.0	0.00	0.00	6,277.0	270.0	-1,520.3	-270.0	0.00	0.00	
6,600.0	0.00	0.00	6,377.0	270.0	-1,520.3	-270.0	0.00	0.00	
6,694.0	0.00	0.00	6,471.0	270.0	-1,520.3	-270.0	0.00	0.00	Start Build 10.00
6,700.0	0.60	180.83	6,477.0	270.0	-1,520.3	-270.0	10.00	10.00	
6,800.0	10.60	180.83	6,576.4	260.2	-1,520.4	-260.2	10.00	10.00	
6,900.0	20.60	180.83	6,672.6	233.4	-1,520.8	-233.4	10.00	10.00	
7,000.0	30.60	180.83	6,762.7	190.2	-1,521.5	-190.2	10.00	10.00	
7,081.9	38.79	180.83	6,830.0	143.6	-1,522.1	-143.6	10.00	10.00	Sharon Springs
7,100.0	40.60	180.83	6,843.9	132.1	-1,522.3	-132.1	10.00	10.00	
7,120.2	42.62	180.83	6,859.0	118.7	-1,522.5	-118.7	10.00	10.00	Niobrara
7,200.0	50.60	180.83	6,913.8	60.7	-1,523.3	-60.7	10.00	10.00	
7,248.6	55.46	180.83	6,943.0	21.9	-1,523.9	-21.9	10.00	10.00	B Chalk
7,291.5	59.75	180.83	6,966.0	-14.3	-1,524.4	14.3	10.00	10.00	B Marl
7,300.0	60.60	180.83	6,970.2	-21.7	-1,524.5	21.7	10.00	10.00	
7,400.0	70.60	180.83	7,011.5	-112.6	-1,525.9	112.6	10.00	10.00	
7,417.4	72.34	180.83	7,017.0	-129.1	-1,526.1	129.1	10.00	10.00	C Chalk
7,500.0	80.60	180.83	7,036.3	-209.3	-1,527.3	209.3	10.00	10.00	
7,594.0	90.00	180.83	7,044.0	-302.9	-1,528.6	302.9	10.00	10.00	LP @ 7044' TVD; 90°
7,600.0	90.00	180.83	7,044.0	-308.9	-1,528.7	308.9	0.00	0.00	
7,700.0	90.00	180.83	7,044.0	-408.9	-1,530.2	408.9	0.00	0.00	
7,800.0	90.00	180.83	7,044.0	-508.9	-1,531.6	508.9	0.00	0.00	
7,900.0	90.00	180.83	7,044.0	-608.9	-1,533.1	608.9	0.00	0.00	
8,000.0	90.00	180.83	7,044.0	-708.8	-1,534.5	708.8	0.00	0.00	
8,100.0	90.00	180.83	7,044.0	-808.8	-1,536.0	808.8	0.00	0.00	
8,200.0	90.00	180.83	7,044.0	-908.8	-1,537.4	908.8	0.00	0.00	
8,300.0	90.00	180.83	7,044.0	-1,008.8	-1,538.9	1,008.8	0.00	0.00	
8,400.0	90.00	180.83	7,044.0	-1,108.8	-1,540.3	1,108.8	0.00	0.00	
8,500.0	90.00	180.83	7,044.0	-1,208.8	-1,541.8	1,208.8	0.00	0.00	
8,600.0	90.00	180.83	7,044.0	-1,308.8	-1,543.3	1,308.8	0.00	0.00	
8,700.0	90.00	180.83	7,044.0	-1,408.8	-1,544.7	1,408.8	0.00	0.00	
8,800.0	90.00	180.83	7,044.0	-1,508.8	-1,546.2	1,508.8	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Newman 2A-32H-C264	<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
8,900.0	90.00	180.83	7,044.0	-1,608.8	-1,547.6	1,608.8	0.00	0.00	
9,000.0	90.00	180.83	7,044.0	-1,708.7	-1,549.1	1,708.7	0.00	0.00	
9,100.0	90.00	180.83	7,044.0	-1,808.7	-1,550.5	1,808.7	0.00	0.00	
9,200.0	90.00	180.83	7,044.0	-1,908.7	-1,552.0	1,908.7	0.00	0.00	
9,300.0	90.00	180.83	7,044.0	-2,008.7	-1,553.4	2,008.7	0.00	0.00	
9,400.0	90.00	180.83	7,044.0	-2,108.7	-1,554.9	2,108.7	0.00	0.00	
9,500.0	90.00	180.83	7,044.0	-2,208.7	-1,556.3	2,208.7	0.00	0.00	
9,600.0	90.00	180.83	7,044.0	-2,308.7	-1,557.8	2,308.7	0.00	0.00	
9,700.0	90.00	180.83	7,044.0	-2,408.7	-1,559.2	2,408.7	0.00	0.00	
9,800.0	90.00	180.83	7,044.0	-2,508.7	-1,560.7	2,508.7	0.00	0.00	
9,900.0	90.00	180.83	7,044.0	-2,608.6	-1,562.2	2,608.6	0.00	0.00	
10,000.0	90.00	180.83	7,044.0	-2,708.6	-1,563.6	2,708.6	0.00	0.00	
10,100.0	90.00	180.83	7,044.0	-2,808.6	-1,565.1	2,808.6	0.00	0.00	
10,200.0	90.00	180.83	7,044.0	-2,908.6	-1,566.5	2,908.6	0.00	0.00	
10,300.0	90.00	180.83	7,044.0	-3,008.6	-1,568.0	3,008.6	0.00	0.00	
10,400.0	90.00	180.83	7,044.0	-3,108.6	-1,569.4	3,108.6	0.00	0.00	
10,500.0	90.00	180.83	7,044.0	-3,208.6	-1,570.9	3,208.6	0.00	0.00	
10,600.0	90.00	180.83	7,044.0	-3,308.6	-1,572.3	3,308.6	0.00	0.00	
10,700.0	90.00	180.83	7,044.0	-3,408.6	-1,573.8	3,408.6	0.00	0.00	
10,800.0	90.00	180.83	7,044.0	-3,508.6	-1,575.2	3,508.6	0.00	0.00	
10,900.0	90.00	180.83	7,044.0	-3,608.5	-1,576.7	3,608.5	0.00	0.00	
11,000.0	90.00	180.83	7,044.0	-3,708.5	-1,578.1	3,708.5	0.00	0.00	
11,100.0	90.00	180.83	7,044.0	-3,808.5	-1,579.6	3,808.5	0.00	0.00	
11,200.0	90.00	180.83	7,044.0	-3,908.5	-1,581.1	3,908.5	0.00	0.00	
11,300.0	90.00	180.83	7,044.0	-4,008.5	-1,582.5	4,008.5	0.00	0.00	
11,400.0	90.00	180.83	7,044.0	-4,108.5	-1,584.0	4,108.5	0.00	0.00	
11,500.0	90.00	180.83	7,044.0	-4,208.5	-1,585.4	4,208.5	0.00	0.00	
11,600.0	90.00	180.83	7,044.0	-4,308.5	-1,586.9	4,308.5	0.00	0.00	
11,700.0	90.00	180.83	7,044.0	-4,408.5	-1,588.3	4,408.5	0.00	0.00	
11,800.0	90.00	180.83	7,044.0	-4,508.4	-1,589.8	4,508.4	0.00	0.00	
11,837.0	90.00	180.83	7,044.0	-4,545.4	-1,590.3	4,545.4	0.00	0.00	TD at 11837.0

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Newman 2A-32H-C264 I	0.00	0.00	7,044.0	-4,545.4	-1,590.3	1,276,588.96	3,256,191.54	40.088990	-104.584344
- plan hits target center									
- Point									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R64W (Newman)	<b>North Reference:</b>	True
<b>Well:</b>	Newman 2A-32H-C264	<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 (°)	
966.1	957.0	Fox Hills - BASE				
4,572.9	4,399.0	Sussex				
4,841.2	4,655.0	Sussex Marker				
5,178.7	4,977.0	Shannon				
6,305.0	6,082.0	Teepee Buttes (*if present)				
7,081.9	6,830.0	Sharon Springs				
7,120.2	6,859.0	Niobrara				
7,248.6	6,943.0	B Chalk				
7,291.5	6,966.0	B Marl				
7,417.4	7,017.0	C Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,070.8	1,057.4	23.0	-129.3	EOB; Inc=17.42°	
5,352.2	5,142.6	247.0	-1,391.0	Start Drop -2.00	
6,223.0	6,000.0	270.0	-1,520.3	EOD; Inc=0°	
6,694.0	6,471.0	270.0	-1,520.3	Start Build 10.00	
7,594.0	7,044.0	-302.9	-1,528.6	LP @ 7044' TVD; 90°	
11,837.0	7,044.0	-4,545.4	-1,590.3	TD at 11837.0	

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

**DJ Wattenberg**

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

**Newman 2A-32H-C264**

**HZ**

**Plan #1**

## **Anticollision Report**

**04 April, 2014**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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>	4/4/2014		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,837.0	Plan #1 (HZ)	Geolink MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R64W (Newman)						
NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE						Out of range
Newman 2B-32H-C264 - HZ - Plan #1	200.0	201.0	7.6	7.0	12.691	CC, ES
Newman 2B-32H-C264 - HZ - Plan #1	11,837.0	11,707.2	242.7	89.0	1.579	SF
Newman 2C-32H-C264 - HZ - Plan #1	200.0	201.0	15.1	14.5	25.389	CC, ES
Newman 2C-32H-C264 - HZ - Plan #1	11,837.0	11,873.9	478.0	318.4	2.994	SF
Newman 2D-32H-C264 - HZ - Plan #1	200.0	201.0	22.7	22.1	38.077	CC, ES
Newman 2D-32H-C264 - HZ - Plan #1	11,837.0	11,703.3	675.1	509.9	4.085	SF
Newman 2E-32H-C264 - HZ - Plan #1	200.0	201.0	30.2	29.6	50.767	CC, ES
Newman 2E-32H-C264 - HZ - Plan #1	11,837.0	11,582.0	904.7	740.3	5.505	SF
Newman 2F-32H-C264 - HZ - Plan #1	200.0	202.0	37.5	36.9	62.802	CC, ES
Newman 2F-32H-C264 - HZ - Plan #1	600.0	602.3	63.3	61.3	31.863	SF
Newman 2G-32H-C264 - HZ - Plan #1	200.0	202.0	45.0	44.4	75.456	CC, ES
Newman 2G-32H-C264 - HZ - Plan #1	600.0	601.7	72.0	70.0	36.245	SF
Newman 2H-32H-C264 - HZ - Plan #1	200.0	202.0	52.6	52.0	88.114	CC, ES
Newman 2H-32H-C264 - HZ - Plan #1	600.0	601.3	79.6	77.7	40.067	SF
Newman 2I-32H-C264 - HZ - Plan #1	200.0	203.0	60.1	59.5	100.473	CC, ES
Newman 2I-32H-C264 - HZ - Plan #1	600.0	600.0	89.3	87.4	44.940	SF
Newman 2J-32H-C264 - HZ - Plan #1	200.0	203.0	67.7	67.1	113.089	CC, ES
Newman 2J-32H-C264 - HZ - Plan #1	600.0	598.4	99.6	97.6	50.166	SF
Newman 2K-32H-C264 - HZ - Plan #1	200.0	203.0	75.0	74.4	125.238	CC, ES
Newman 2K-32H-C264 - HZ - Plan #1	600.0	596.7	109.5	107.6	55.272	SF
Newman 2L-32H-C264 - HZ - Plan #1	200.0	203.0	82.5	81.9	137.860	CC, ES
Newman 2L-32H-C264 - HZ - Plan #1	600.0	595.1	120.0	118.1	60.673	SF
RUHL 1 (EXISTING) - EXISTING - ENCANA WELL						Out of range



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2B-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	90.10	0.0	7.6	7.6					
100.0	100.0	101.0	101.0	0.1	0.1	90.10	0.0	7.6	7.6	7.3	0.25	30.691		
200.0	200.0	201.0	201.0	0.3	0.3	90.10	0.0	7.6	7.6	7.0	0.60	12.691 CC, ES		
300.0	300.0	301.1	301.1	0.5	0.5	171.42	0.1	7.1	8.8	7.9	0.94	9.349		
400.0	399.8	401.5	401.4	0.7	0.7	172.45	0.8	3.6	10.5	9.2	1.29	8.134		
500.0	499.5	501.8	501.5	0.9	0.9	172.89	2.1	-3.3	12.2	10.6	1.64	7.435		
600.0	598.7	602.3	601.4	1.2	1.1	172.95	4.2	-13.7	13.9	11.9	1.99	6.975		
700.0	697.5	702.8	700.9	1.5	1.4	172.75	6.9	-27.5	15.6	13.2	2.34	6.644		
800.0	795.6	803.3	799.9	1.9	1.7	172.37	10.3	-44.7	17.2	14.5	2.70	6.388		
900.0	893.1	903.9	898.3	2.3	2.1	171.86	14.3	-65.4	18.9	15.8	3.06	6.176		
1,000.0	989.6	1,004.6	995.9	2.8	2.6	171.24	19.1	-89.4	20.6	17.1	3.43	5.989		
1,100.0	1,085.3	1,104.8	1,092.4	3.3	3.1	170.85	24.3	-115.9	22.8	19.0	3.81	5.985		
1,200.0	1,180.7	1,204.8	1,188.6	3.9	3.6	170.77	29.5	-142.6	25.7	21.5	4.20	6.131		
1,300.0	1,276.1	1,304.7	1,284.8	4.4	4.1	170.71	34.8	-169.2	28.7	24.1	4.59	6.249		
1,400.0	1,371.6	1,404.7	1,381.0	5.0	4.6	170.66	40.0	-195.9	31.6	26.6	4.98	6.348		
1,500.0	1,467.0	1,504.7	1,477.2	5.6	5.1	170.62	45.2	-222.5	34.5	29.2	5.37	6.430		
1,600.0	1,562.4	1,604.6	1,573.4	6.1	5.6	170.58	50.5	-249.1	37.5	31.7	5.76	6.501		
1,700.0	1,657.8	1,704.6	1,669.6	6.7	6.1	170.55	55.7	-275.8	40.4	34.2	6.16	6.562		
1,800.0	1,753.2	1,804.5	1,765.8	7.3	6.7	170.53	61.0	-302.4	43.3	36.8	6.55	6.615		
1,900.0	1,848.6	1,904.5	1,862.0	7.8	7.2	170.51	66.2	-329.1	46.3	39.3	6.95	6.661		
2,000.0	1,944.1	2,004.4	1,958.2	8.4	7.7	170.49	71.4	-355.7	49.2	41.9	7.34	6.703		
2,100.0	2,039.5	2,104.4	2,054.4	9.0	8.2	170.47	76.7	-382.4	52.1	44.4	7.74	6.739		
2,200.0	2,134.9	2,204.4	2,150.6	9.5	8.7	170.45	81.9	-409.0	55.1	46.9	8.13	6.772		
2,300.0	2,230.3	2,304.3	2,246.8	10.1	9.2	170.44	87.2	-435.7	58.0	49.5	8.53	6.802		
2,400.0	2,325.7	2,404.3	2,343.0	10.7	9.8	170.43	92.4	-462.3	60.9	52.0	8.92	6.829		
2,500.0	2,421.1	2,504.2	2,439.2	11.2	10.3	170.41	97.6	-488.9	63.9	54.5	9.32	6.853		
2,600.0	2,516.6	2,604.2	2,535.4	11.8	10.8	170.40	102.9	-515.6	66.8	57.1	9.71	6.875		
2,700.0	2,612.0	2,704.1	2,631.6	12.4	11.3	170.39	108.1	-542.2	69.7	59.6	10.11	6.896		
2,800.0	2,707.4	2,804.1	2,727.8	12.9	11.8	170.38	113.4	-568.9	72.6	62.1	10.51	6.915		
2,900.0	2,802.8	2,904.1	2,824.0	13.5	12.4	170.38	118.6	-595.5	75.6	64.7	10.90	6.932		
3,000.0	2,898.2	3,004.0	2,920.2	14.1	12.9	170.37	123.8	-622.2	78.5	67.2	11.30	6.948		
3,100.0	2,993.6	3,104.0	3,016.4	14.7	13.4	170.36	129.1	-648.8	81.4	69.7	11.70	6.963		
3,200.0	3,089.0	3,203.9	3,112.6	15.2	13.9	170.35	134.3	-675.5	84.4	72.3	12.09	6.977		
3,300.0	3,184.5	3,303.9	3,208.8	15.8	14.4	170.35	139.6	-702.1	87.3	74.8	12.49	6.990		
3,400.0	3,279.9	3,403.8	3,305.0	16.4	15.0	170.34	144.8	-728.7	90.2	77.4	12.89	7.002		
3,500.0	3,375.3	3,503.8	3,401.2	16.9	15.5	170.34	150.0	-755.4	93.2	79.9	13.28	7.014		
3,600.0	3,470.7	3,603.8	3,497.4	17.5	16.0	170.33	155.3	-782.0	96.1	82.4	13.68	7.024		
3,700.0	3,566.1	3,703.7	3,593.6	18.1	16.5	170.33	160.5	-808.7	99.0	85.0	14.08	7.034		
3,800.0	3,661.5	3,803.7	3,689.8	18.7	17.0	170.32	165.7	-835.3	102.0	87.5	14.48	7.044		
3,900.0	3,757.0	3,903.6	3,786.0	19.2	17.5	170.32	171.0	-862.0	104.9	90.0	14.87	7.053		
4,000.0	3,852.4	4,003.6	3,882.2	19.8	18.1	170.31	176.2	-888.6	107.8	92.6	15.27	7.061		
4,100.0	3,947.8	4,103.5	3,978.4	20.4	18.6	170.31	181.5	-915.3	110.8	95.1	15.67	7.069		
4,200.0	4,043.2	4,203.5	4,074.6	20.9	19.1	170.31	186.7	-941.9	113.7	97.6	16.06	7.077		
4,300.0	4,138.6	4,303.5	4,170.7	21.5	19.6	170.30	191.9	-968.5	116.6	100.2	16.46	7.084		
4,400.0	4,234.0	4,403.4	4,266.9	22.1	20.1	170.30	197.2	-995.2	119.6	102.7	16.86	7.091		
4,500.0	4,329.5	4,503.4	4,363.1	22.7	20.7	170.30	202.4	-1,021.8	122.5	105.2	17.26	7.098		
4,600.0	4,424.9	4,603.3	4,459.3	23.2	21.2	170.29	207.7	-1,048.5	125.4	107.8	17.65	7.104		
4,700.0	4,520.3	4,703.3	4,555.5	23.8	21.7	170.29	212.9	-1,075.1	128.3	110.3	18.05	7.110		
4,800.0	4,615.7	4,803.2	4,651.7	24.4	22.2	170.29	218.1	-1,101.8	131.3	112.8	18.45	7.115		
4,900.0	4,711.1	4,903.2	4,747.9	24.9	22.7	170.29	223.4	-1,128.4	134.2	115.4	18.85	7.121		
5,000.0	4,806.5	5,003.2	4,844.1	25.5	23.3	170.28	228.6	-1,155.0	137.1	117.9	19.24	7.126		
5,100.0	4,901.9	5,103.1	4,940.3	26.1	23.8	170.28	233.9	-1,181.7	140.1	120.4	19.64	7.131		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2B-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4,997.4	5,203.1	5,036.5	26.7	24.3	170.28	239.1	-1,208.3	143.0	123.0	20.04	7.136		
5,300.0	5,092.8	5,303.0	5,132.7	27.2	24.8	170.28	244.3	-1,235.0	145.9	125.5	20.44	7.141		
5,400.0	5,188.3	5,402.6	5,228.6	27.8	25.3	170.25	249.6	-1,261.5	148.5	127.6	20.85	7.122		
5,500.0	5,284.7	5,500.0	5,322.8	28.3	25.8	170.17	254.3	-1,285.7	149.9	128.7	21.26	7.051		
5,500.2	5,284.9	5,500.0	5,322.8	28.3	25.8	170.17	254.3	-1,285.7	149.9	128.7	21.26	7.051		
5,600.0	5,381.9	5,592.8	5,413.3	28.7	26.2	170.11	258.3	-1,305.8	151.2	129.5	21.64	6.986		
5,700.0	5,479.9	5,687.9	5,506.7	29.0	26.5	170.06	261.7	-1,323.4	152.3	130.3	22.00	6.922		
5,800.0	5,578.6	5,782.9	5,600.5	29.3	26.8	170.01	264.6	-1,337.9	153.2	130.8	22.33	6.861		
5,900.0	5,677.7	5,877.9	5,694.8	29.6	27.0	169.98	266.8	-1,349.4	153.9	131.3	22.63	6.801		
6,000.0	5,777.3	5,972.9	5,789.4	29.8	27.2	169.95	268.5	-1,357.7	154.4	131.5	22.90	6.744		
6,100.0	5,877.1	6,067.9	5,884.2	29.9	27.3	169.94	269.5	-1,363.1	154.8	131.6	23.15	6.687		
6,200.0	5,977.0	6,162.8	5,979.1	30.0	27.4	169.93	270.0	-1,365.3	154.9	131.6	23.37	6.631		
6,300.0	6,077.0	6,261.7	6,078.0	30.0	27.4	90.00	270.0	-1,365.3	155.0	131.0	23.98	6.460		
6,400.0	6,177.0	6,361.7	6,178.0	30.1	27.5	90.00	270.0	-1,365.3	155.0	130.6	24.30	6.376		
6,500.0	6,277.0	6,461.7	6,278.0	30.2	27.6	90.00	270.0	-1,365.3	155.0	130.3	24.62	6.293		
6,600.0	6,377.0	6,561.7	6,378.0	30.2	27.6	90.00	270.0	-1,365.3	155.0	130.0	24.94	6.213		
6,626.2	6,403.3	6,587.9	6,404.2	30.3	27.7	-90.67	269.5	-1,365.3	155.0	130.3	24.65	6.287		
6,700.0	6,477.0	6,660.8	6,476.7	30.3	27.7	-87.87	261.9	-1,365.3	155.2	131.2	23.96	6.476		
6,800.0	6,576.4	6,757.0	6,569.7	30.3	27.7	-82.30	238.0	-1,365.3	156.9	133.6	23.25	6.747		
6,900.0	6,672.6	6,850.0	6,654.7	30.3	27.6	-77.21	200.4	-1,365.3	160.1	136.4	23.71	6.750		
7,000.0	6,762.7	6,942.8	6,732.3	30.3	27.6	-72.66	149.7	-1,365.3	164.3	139.5	24.84	6.616		
7,100.0	6,843.9	7,033.1	6,799.0	30.3	27.6	-68.87	89.0	-1,365.3	169.1	143.2	25.89	6.533		
7,200.0	6,913.8	7,122.0	6,854.5	30.3	27.6	-65.83	19.7	-1,365.3	174.0	147.5	26.52	6.560		
7,300.0	6,970.2	7,209.9	6,898.2	30.4	27.7	-63.53	-56.4	-1,365.3	178.5	152.2	26.39	6.767		
7,400.0	7,011.5	7,300.0	6,930.5	30.6	27.9	-61.93	-140.5	-1,365.3	182.4	156.4	25.97	7.023		
7,500.0	7,036.3	7,383.5	6,948.3	30.8	28.1	-61.08	-222.0	-1,365.3	185.2	159.9	25.38	7.299		
7,600.0	7,044.0	7,470.6	6,954.0	31.1	28.4	-60.88	-308.9	-1,365.3	187.0	161.9	25.12	7.445		
7,700.0	7,044.0	7,570.6	6,954.0	31.6	28.9	-61.09	-408.9	-1,365.4	188.3	161.3	26.97	6.982		
7,800.0	7,044.0	7,670.6	6,954.0	32.1	29.4	-61.31	-508.9	-1,365.4	189.5	160.5	29.02	6.531		
7,900.0	7,044.0	7,770.6	6,954.0	32.7	30.1	-61.52	-608.9	-1,365.4	190.8	159.6	31.26	6.104		
8,000.0	7,044.0	7,870.6	6,954.0	33.4	30.8	-61.72	-708.9	-1,365.4	192.1	158.5	33.65	5.709		
8,100.0	7,044.0	7,970.6	6,954.0	34.1	31.6	-61.93	-808.8	-1,365.4	193.4	157.2	36.16	5.348		
8,200.0	7,044.0	8,070.6	6,954.0	35.0	32.5	-62.13	-908.8	-1,365.4	194.7	155.9	38.77	5.021		
8,300.0	7,044.0	8,170.6	6,954.0	35.9	33.4	-62.33	-1,008.8	-1,365.4	196.0	154.5	41.47	4.726		
8,400.0	7,044.0	8,270.6	6,954.0	36.9	34.5	-62.52	-1,108.8	-1,365.4	197.2	153.0	44.23	4.459		
8,500.0	7,044.0	8,370.5	6,954.0	37.9	35.5	-62.72	-1,208.8	-1,365.4	198.5	151.5	47.06	4.219		
8,600.0	7,044.0	8,470.5	6,954.0	39.0	36.7	-62.91	-1,308.8	-1,365.4	199.8	149.9	49.93	4.002		
8,700.0	7,044.0	8,570.5	6,954.0	40.1	37.9	-63.10	-1,408.8	-1,365.4	201.1	148.3	52.85	3.805		
8,800.0	7,044.0	8,670.5	6,954.0	41.3	39.1	-63.28	-1,508.8	-1,365.4	202.4	146.6	55.81	3.627		
8,900.0	7,044.0	8,770.5	6,954.0	42.5	40.4	-63.47	-1,608.8	-1,365.4	203.7	144.9	58.80	3.464		
9,000.0	7,044.0	8,870.5	6,954.0	43.7	41.7	-63.65	-1,708.7	-1,365.4	205.0	143.2	61.82	3.316		
9,100.0	7,044.0	8,970.5	6,954.0	45.0	43.0	-63.83	-1,808.7	-1,365.4	206.3	141.4	64.87	3.180		
9,200.0	7,044.0	9,070.5	6,954.0	46.3	44.4	-64.00	-1,908.7	-1,365.4	207.6	139.7	67.95	3.056		
9,300.0	7,044.0	9,170.5	6,954.0	47.7	45.8	-64.18	-2,008.7	-1,365.4	208.9	137.9	71.04	2.941		
9,400.0	7,044.0	9,270.5	6,954.0	49.1	47.2	-64.35	-2,108.7	-1,365.4	210.2	136.1	74.16	2.835		
9,500.0	7,044.0	9,370.4	6,954.0	50.5	48.6	-64.52	-2,208.7	-1,365.4	211.6	134.3	77.29	2.737		
9,600.0	7,044.0	9,470.4	6,954.0	51.9	50.1	-64.69	-2,308.7	-1,365.4	212.9	132.4	80.45	2.646		
9,700.0	7,044.0	9,570.4	6,954.0	53.3	51.6	-64.86	-2,408.7	-1,365.4	214.2	130.6	83.61	2.562		
9,800.0	7,044.0	9,670.4	6,954.0	54.8	53.1	-65.02	-2,508.7	-1,365.4	215.5	128.7	86.79	2.483		
9,900.0	7,044.0	9,770.4	6,954.0	56.3	54.6	-65.18	-2,608.6	-1,365.4	216.8	126.8	89.99	2.409		
10,000.0	7,044.0	9,870.4	6,954.0	57.7	56.1	-65.34	-2,708.6	-1,365.4	218.1	124.9	93.20	2.341		
10,100.0	7,044.0	9,970.4	6,954.0	59.3	57.6	-65.50	-2,808.6	-1,365.4	219.5	123.0	96.42	2.276		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2B-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,044.0	10,070.4	6,954.0	60.8	59.2	-65.66	-2,908.6	-1,365.4	220.8	121.1	99.65	2.216		
10,300.0	7,044.0	10,170.4	6,954.0	62.3	60.8	-65.81	-3,008.6	-1,365.4	222.1	119.2	102.89	2.159		
10,400.0	7,044.0	10,270.3	6,954.0	63.9	62.3	-65.96	-3,108.6	-1,365.4	223.4	117.3	106.14	2.105		
10,500.0	7,044.0	10,370.3	6,954.0	65.4	63.9	-66.11	-3,208.6	-1,365.4	224.8	115.4	109.40	2.055		
10,600.0	7,044.0	10,470.3	6,954.0	67.0	65.5	-66.26	-3,308.6	-1,365.4	226.1	113.4	112.67	2.007		
10,700.0	7,044.0	10,570.3	6,954.0	68.6	67.1	-66.41	-3,408.6	-1,365.4	227.4	111.5	115.95	1.961		
10,800.0	7,044.0	10,670.3	6,954.0	70.1	68.7	-66.56	-3,508.6	-1,365.4	228.8	109.5	119.23	1.919		
10,900.0	7,044.0	10,770.3	6,954.0	71.7	70.3	-66.70	-3,608.5	-1,365.4	230.1	107.6	122.53	1.878		
11,000.0	7,044.0	10,870.3	6,954.0	73.3	72.0	-66.84	-3,708.5	-1,365.4	231.4	105.6	125.83	1.839		
11,100.0	7,044.0	10,970.3	6,954.0	74.9	73.6	-66.98	-3,808.5	-1,365.4	232.8	103.6	129.13	1.802		
11,200.0	7,044.0	11,070.3	6,954.0	76.6	75.2	-67.12	-3,908.5	-1,365.4	234.1	101.7	132.45	1.767		
11,300.0	7,044.0	11,170.3	6,954.0	78.2	76.9	-67.26	-4,008.5	-1,365.4	235.4	99.7	135.77	1.734		
11,400.0	7,044.0	11,270.2	6,954.0	79.8	78.5	-67.40	-4,108.5	-1,365.4	236.8	97.7	139.10	1.702		
11,500.0	7,044.0	11,370.2	6,954.0	81.4	80.2	-67.53	-4,208.5	-1,365.4	238.1	95.7	142.43	1.672		
11,600.0	7,044.0	11,470.2	6,954.0	83.1	81.8	-67.66	-4,308.5	-1,365.4	239.5	93.7	145.77	1.643		
11,700.0	7,044.0	11,570.2	6,954.0	84.7	83.5	-67.80	-4,408.5	-1,365.4	240.8	91.7	149.11	1.615		
11,800.0	7,044.0	11,670.2	6,954.0	86.4	85.1	-67.93	-4,508.4	-1,365.4	242.2	89.7	152.46	1.588		
11,837.0	7,044.0	11,707.2	6,954.0	87.0	85.7	-67.97	-4,545.4	-1,365.4	242.7	89.0	153.70	1.579 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2C-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	91.38	-0.4	15.1	15.1					
100.0	100.0	101.0	101.0	0.1	0.1	91.38	-0.4	15.1	15.1	14.9	0.25	61.401		
200.0	200.0	201.0	201.0	0.3	0.3	91.38	-0.4	15.1	15.1	14.5	0.60	25.389 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	172.20	-0.4	15.1	16.8	15.9	0.94	17.837		
400.0	399.8	401.6	401.5	0.7	0.7	173.24	0.0	13.4	20.3	19.0	1.29	15.675		
500.0	499.5	502.3	502.1	0.9	0.8	173.51	1.3	8.2	23.7	22.1	1.64	14.437		
600.0	598.7	603.1	602.5	1.2	1.1	173.28	3.3	-0.5	27.2	25.2	1.99	13.627		
700.0	697.5	704.0	702.7	1.5	1.3	172.74	6.2	-12.6	30.6	28.3	2.35	13.045		
800.0	795.6	805.1	802.5	1.9	1.6	171.96	9.8	-28.1	34.0	31.3	2.70	12.588		
900.0	893.1	906.3	901.8	2.3	2.0	171.03	14.3	-47.1	37.5	34.4	3.07	12.200		
1,000.0	989.6	1,006.9	999.8	2.8	2.4	170.11	19.4	-68.9	41.4	37.9	3.45	11.980		
1,100.0	1,085.3	1,106.6	1,097.0	3.3	2.8	169.97	24.6	-91.0	48.1	44.3	3.83	12.551		
1,200.0	1,180.7	1,206.3	1,194.1	3.9	3.3	170.02	29.9	-113.1	55.7	51.5	4.22	13.195		
1,300.0	1,276.1	1,306.1	1,291.2	4.4	3.7	170.07	35.1	-135.2	63.3	58.7	4.61	13.728		
1,400.0	1,371.6	1,405.8	1,388.3	5.0	4.1	170.10	40.3	-157.2	70.9	65.9	5.00	14.176		
1,500.0	1,467.0	1,505.5	1,485.4	5.6	4.5	170.13	45.5	-179.3	78.4	73.1	5.39	14.557		
1,600.0	1,562.4	1,605.2	1,582.5	6.1	5.0	170.16	50.7	-201.4	86.0	80.3	5.78	14.885		
1,700.0	1,657.8	1,704.9	1,679.6	6.7	5.4	170.17	55.9	-223.4	93.6	87.5	6.17	15.170		
1,800.0	1,753.2	1,804.6	1,776.7	7.3	5.8	170.19	61.1	-245.5	101.2	94.6	6.56	15.421		
1,900.0	1,848.6	1,904.3	1,873.8	7.8	6.3	170.21	66.3	-267.6	108.8	101.8	6.96	15.643		
2,000.0	1,944.1	2,004.0	1,970.9	8.4	6.7	170.22	71.5	-289.6	116.4	109.0	7.35	15.840		
2,100.0	2,039.5	2,103.7	2,068.0	9.0	7.2	170.23	76.7	-311.7	124.0	116.2	7.74	16.017		
2,200.0	2,134.9	2,203.5	2,165.1	9.5	7.6	170.24	81.9	-333.8	131.6	123.4	8.13	16.177		
2,300.0	2,230.3	2,303.2	2,262.2	10.1	8.0	170.25	87.1	-355.8	139.2	130.6	8.53	16.321		
2,400.0	2,325.7	2,402.9	2,359.3	10.7	8.5	170.25	92.3	-377.9	146.7	137.8	8.92	16.453		
2,500.0	2,421.1	2,502.6	2,456.4	11.2	8.9	170.26	97.5	-400.0	154.3	145.0	9.31	16.573		
2,600.0	2,516.6	2,602.3	2,553.5	11.8	9.4	170.27	102.7	-422.1	161.9	152.2	9.71	16.683		
2,700.0	2,612.0	2,702.0	2,650.6	12.4	9.8	170.27	107.9	-444.1	169.5	159.4	10.10	16.785		
2,800.0	2,707.4	2,801.7	2,747.7	12.9	10.2	170.28	113.1	-466.2	177.1	166.6	10.49	16.879		
2,900.0	2,802.8	2,901.4	2,844.8	13.5	10.7	170.28	118.3	-488.3	184.7	173.8	10.89	16.966		
3,000.0	2,898.2	3,001.1	2,941.9	14.1	11.1	170.29	123.5	-510.3	192.3	181.0	11.28	17.047		
3,100.0	2,993.6	3,100.9	3,039.0	14.7	11.5	170.29	128.7	-532.4	199.9	188.2	11.67	17.122		
3,200.0	3,089.0	3,200.6	3,136.1	15.2	12.0	170.30	133.9	-554.5	207.5	195.4	12.07	17.192		
3,300.0	3,184.5	3,300.3	3,233.2	15.8	12.4	170.30	139.1	-576.5	215.0	202.6	12.46	17.258		
3,400.0	3,279.9	3,400.0	3,330.2	16.4	12.9	170.30	144.3	-598.6	222.6	209.8	12.85	17.320		
3,500.0	3,375.3	3,499.7	3,427.3	16.9	13.3	170.31	149.5	-620.7	230.2	217.0	13.25	17.378		
3,600.0	3,470.7	3,599.4	3,524.4	17.5	13.7	170.31	154.7	-642.8	237.8	224.2	13.64	17.432		
3,700.0	3,566.1	3,699.1	3,621.5	18.1	14.2	170.31	159.9	-664.8	245.4	231.4	14.04	17.484		
3,800.0	3,661.5	3,798.8	3,718.6	18.7	14.6	170.31	165.1	-686.9	253.0	238.6	14.43	17.532		
3,900.0	3,757.0	3,898.6	3,815.7	19.2	15.1	170.32	170.3	-709.0	260.6	245.8	14.82	17.578		
4,000.0	3,852.4	3,998.3	3,912.8	19.8	15.5	170.32	175.5	-731.0	268.2	253.0	15.22	17.622		
4,100.0	3,947.8	4,098.0	4,009.9	20.4	16.0	170.32	180.7	-753.1	275.8	260.1	15.61	17.663		
4,200.0	4,043.2	4,197.7	4,107.0	20.9	16.4	170.32	185.9	-775.2	283.3	267.3	16.01	17.702		
4,300.0	4,138.6	4,297.4	4,204.1	21.5	16.8	170.32	191.1	-797.2	290.9	274.5	16.40	17.740		
4,400.0	4,234.0	4,397.1	4,301.2	22.1	17.3	170.33	196.3	-819.3	298.5	281.7	16.79	17.775		
4,500.0	4,329.5	4,496.8	4,398.3	22.7	17.7	170.33	201.5	-841.4	306.1	288.9	17.19	17.809		
4,600.0	4,424.9	4,596.5	4,495.4	23.2	18.2	170.33	206.7	-863.4	313.7	296.1	17.58	17.842		
4,700.0	4,520.3	4,696.2	4,592.5	23.8	18.6	170.33	211.9	-885.5	321.3	303.3	17.98	17.873		
4,800.0	4,615.7	4,796.0	4,689.6	24.4	19.0	170.33	217.1	-907.6	328.9	310.5	18.37	17.903		
4,900.0	4,711.1	4,895.7	4,786.7	24.9	19.5	170.33	222.3	-929.7	336.5	317.7	18.76	17.931		
5,000.0	4,806.5	4,995.4	4,883.8	25.5	19.9	170.33	227.5	-951.7	344.1	324.9	19.16	17.958		
5,100.0	4,901.9	5,095.1	4,980.9	26.1	20.4	170.34	232.7	-973.8	351.7	332.1	19.55	17.984		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2C-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	4,997.4	5,194.8	5,078.0	26.7	20.8	170.34	237.9	-995.9	359.2	339.3	19.95	18.009		
5,300.0	5,092.8	5,294.5	5,175.1	27.2	21.2	170.34	243.1	-1,017.9	366.8	346.5	20.34	18.033		
5,400.0	5,188.3	5,394.3	5,272.3	27.8	21.7	170.34	248.3	-1,040.0	374.0	353.3	20.75	18.027		
5,500.0	5,284.7	5,491.7	5,367.2	28.3	22.1	170.27	253.4	-1,061.5	378.3	357.2	21.17	17.870		
5,600.0	5,381.9	5,580.2	5,453.8	28.7	22.4	170.20	257.6	-1,079.2	381.3	359.7	21.56	17.688		
5,700.0	5,479.9	5,668.7	5,540.9	29.0	22.7	170.13	261.1	-1,094.4	383.8	361.9	21.91	17.515		
5,800.0	5,578.6	5,757.1	5,628.3	29.3	23.0	170.08	264.1	-1,106.8	385.9	363.6	22.24	17.350		
5,900.0	5,677.7	5,845.4	5,716.1	29.6	23.2	170.04	266.4	-1,116.7	387.5	365.0	22.54	17.192		
6,000.0	5,777.3	5,933.8	5,804.1	29.8	23.3	170.01	268.1	-1,123.9	388.8	365.9	22.81	17.039		
6,100.0	5,877.1	6,022.1	5,892.3	29.9	23.4	169.99	269.2	-1,128.4	389.5	366.5	23.06	16.892		
6,200.0	5,977.0	6,110.4	5,980.6	30.0	23.5	169.98	269.6	-1,130.3	389.9	366.6	23.28	16.748		
6,300.0	6,077.0	6,207.8	6,078.0	30.0	23.6	90.05	269.6	-1,130.4	389.9	366.0	23.87	16.334		
6,400.0	6,177.0	6,307.8	6,178.0	30.1	23.7	90.05	269.6	-1,130.4	389.9	365.7	24.19	16.120		
6,500.0	6,277.0	6,407.8	6,278.0	30.2	23.8	90.05	269.6	-1,130.4	389.9	365.4	24.51	15.910		
6,600.0	6,377.0	6,507.8	6,378.0	30.2	23.9	90.05	269.6	-1,130.4	389.9	365.1	24.83	15.705		
6,664.5	6,441.6	6,572.4	6,442.6	30.3	23.9	-90.81	269.6	-1,130.4	389.9	365.1	24.76	15.746		
6,700.0	6,477.0	6,607.8	6,478.0	30.3	23.9	-90.78	269.6	-1,130.4	389.9	365.0	24.87	15.679		
6,800.0	6,576.4	6,707.2	6,577.4	30.3	24.0	-92.18	269.6	-1,130.4	390.2	364.6	25.57	15.258		
6,900.0	6,672.6	6,807.8	6,677.8	30.3	24.1	-95.28	264.6	-1,130.4	391.7	365.0	26.68	14.682		
7,000.0	6,762.7	6,913.2	6,780.4	30.3	24.1	-98.34	241.2	-1,130.4	394.7	367.4	27.35	14.433		
7,100.0	6,843.9	7,023.3	6,881.1	30.3	24.0	-101.18	197.1	-1,130.4	398.9	371.5	27.39	14.565		
7,200.0	6,913.8	7,138.5	6,975.4	30.3	24.0	-103.66	131.3	-1,130.4	403.8	376.9	26.88	15.025		
7,300.0	6,970.2	7,258.4	7,057.6	30.4	24.0	-105.68	44.2	-1,130.4	408.8	382.7	26.17	15.623		
7,400.0	7,011.5	7,382.6	7,121.6	30.6	24.2	-107.14	-61.9	-1,130.4	413.4	387.4	25.94	15.936		
7,500.0	7,036.3	7,510.0	7,162.1	30.8	24.5	-107.95	-182.4	-1,130.4	416.9	390.1	26.81	15.551		
7,600.0	7,044.0	7,637.4	7,175.0	31.1	25.0	-108.08	-308.9	-1,130.4	419.0	390.0	29.01	14.444		
7,700.0	7,044.0	7,737.4	7,175.0	31.6	25.5	-108.02	-408.9	-1,130.4	420.4	389.6	30.82	13.640		
7,800.0	7,044.0	7,837.4	7,175.0	32.1	26.1	-107.95	-508.9	-1,130.4	421.8	388.9	32.86	12.835		
7,900.0	7,044.0	7,937.4	7,175.0	32.7	26.9	-107.89	-608.9	-1,130.4	423.2	388.1	35.10	12.054		
8,000.0	7,044.0	8,037.4	7,175.0	33.4	27.7	-107.83	-708.8	-1,130.4	424.5	387.0	37.51	11.317		
8,100.0	7,044.0	8,137.3	7,175.0	34.1	28.6	-107.77	-808.8	-1,130.4	425.9	385.9	40.06	10.632		
8,200.0	7,044.0	8,237.3	7,175.0	35.0	29.6	-107.71	-908.8	-1,130.4	427.3	384.6	42.72	10.003		
8,300.0	7,044.0	8,337.3	7,175.0	35.9	30.7	-107.65	-1,008.8	-1,130.4	428.7	383.2	45.47	9.428		
8,400.0	7,044.0	8,437.3	7,175.0	36.9	31.8	-107.60	-1,108.8	-1,130.4	430.1	381.8	48.30	8.904		
8,500.0	7,044.0	8,537.3	7,175.0	37.9	33.0	-107.54	-1,208.8	-1,130.4	431.5	380.3	51.20	8.428		
8,600.0	7,044.0	8,637.3	7,175.0	39.0	34.2	-107.48	-1,308.8	-1,130.4	432.9	378.7	54.15	7.994		
8,700.0	7,044.0	8,737.3	7,175.0	40.1	35.5	-107.42	-1,408.8	-1,130.4	434.2	377.1	57.15	7.599		
8,800.0	7,044.0	8,837.3	7,175.0	41.3	36.8	-107.36	-1,508.8	-1,130.4	435.6	375.5	60.19	7.238		
8,900.0	7,044.0	8,937.3	7,175.0	42.5	38.2	-107.31	-1,608.8	-1,130.4	437.0	373.8	63.26	6.909		
9,000.0	7,044.0	9,037.3	7,175.0	43.7	39.5	-107.25	-1,708.7	-1,130.4	438.4	372.1	66.36	6.606		
9,100.0	7,044.0	9,137.2	7,175.0	45.0	41.0	-107.19	-1,808.7	-1,130.4	439.8	370.3	69.49	6.329		
9,200.0	7,044.0	9,237.2	7,175.0	46.3	42.4	-107.14	-1,908.7	-1,130.4	441.2	368.5	72.64	6.073		
9,300.0	7,044.0	9,337.2	7,175.0	47.7	43.9	-107.08	-2,008.7	-1,130.4	442.6	366.8	75.82	5.837		
9,400.0	7,044.0	9,437.2	7,175.0	49.1	45.3	-107.03	-2,108.7	-1,130.4	444.0	365.0	79.01	5.619		
9,500.0	7,044.0	9,537.2	7,175.0	50.5	46.9	-106.97	-2,208.7	-1,130.4	445.4	363.1	82.22	5.417		
9,600.0	7,044.0	9,637.2	7,175.0	51.9	48.4	-106.92	-2,308.7	-1,130.4	446.8	361.3	85.44	5.229		
9,700.0	7,044.0	9,737.2	7,175.0	53.3	49.9	-106.86	-2,408.7	-1,130.4	448.2	359.5	88.68	5.054		
9,800.0	7,044.0	9,837.2	7,175.0	54.8	51.5	-106.81	-2,508.7	-1,130.4	449.5	357.6	91.92	4.890		
9,900.0	7,044.0	9,937.2	7,175.0	56.3	53.0	-106.76	-2,608.6	-1,130.4	450.9	355.8	95.18	4.738		
10,000.0	7,044.0	10,037.1	7,175.0	57.7	54.6	-106.70	-2,708.6	-1,130.4	452.3	353.9	98.45	4.594		
10,100.0	7,044.0	10,137.1	7,175.0	59.3	56.2	-106.65	-2,808.6	-1,130.4	453.7	352.0	101.73	4.460		
10,200.0	7,044.0	10,237.1	7,175.0	60.8	57.8	-106.60	-2,908.6	-1,130.4	455.1	350.1	105.02	4.334		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2C-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,044.0	10,337.1	7,175.0	62.3	59.4	-106.55	-3,008.6	-1,130.4	456.5	348.2	108.31	4.215		
10,400.0	7,044.0	10,437.1	7,175.0	63.9	61.0	-106.49	-3,108.6	-1,130.4	457.9	346.3	111.61	4.103		
10,500.0	7,044.0	10,537.1	7,175.0	65.4	62.6	-106.44	-3,208.6	-1,130.4	459.3	344.4	114.92	3.997		
10,600.0	7,044.0	10,637.1	7,175.0	67.0	64.2	-106.39	-3,308.6	-1,130.4	460.7	342.5	118.24	3.896		
10,700.0	7,044.0	10,737.1	7,175.0	68.6	65.9	-106.34	-3,408.6	-1,130.4	462.1	340.5	121.56	3.801		
10,800.0	7,044.0	10,837.1	7,175.0	70.1	67.5	-106.29	-3,508.5	-1,130.4	463.5	338.6	124.88	3.711		
10,900.0	7,044.0	10,937.0	7,175.0	71.7	69.2	-106.24	-3,608.5	-1,130.4	464.9	336.7	128.21	3.626		
11,000.0	7,044.0	11,037.0	7,175.0	73.3	70.8	-106.19	-3,708.5	-1,130.4	466.3	334.7	131.55	3.545		
11,100.0	7,044.0	11,137.0	7,175.0	74.9	72.5	-106.14	-3,808.5	-1,130.4	467.7	332.8	134.89	3.467		
11,200.0	7,044.0	11,237.0	7,175.0	76.6	74.1	-106.09	-3,908.5	-1,130.4	469.1	330.8	138.24	3.393		
11,300.0	7,044.0	11,337.0	7,175.0	78.2	75.8	-106.04	-4,008.5	-1,130.4	470.5	328.9	141.58	3.323		
11,400.0	7,044.0	11,437.0	7,175.0	79.8	77.4	-105.99	-4,108.5	-1,130.4	471.9	326.9	144.94	3.256		
11,500.0	7,044.0	11,537.0	7,175.0	81.4	79.1	-105.94	-4,208.5	-1,130.3	473.3	325.0	148.29	3.191		
11,600.0	7,044.0	11,637.0	7,175.0	83.1	80.8	-105.90	-4,308.5	-1,130.3	474.7	323.0	151.65	3.130		
11,700.0	7,044.0	11,737.0	7,175.0	84.7	82.5	-105.85	-4,408.5	-1,130.3	476.1	321.1	155.02	3.071		
11,800.0	7,044.0	11,837.0	7,175.0	86.4	84.2	-105.80	-4,508.4	-1,130.3	477.5	319.1	158.39	3.015		
11,837.0	7,044.0	11,873.9	7,175.0	87.0	84.8	-105.78	-4,545.4	-1,130.3	478.0	318.4	159.63	2.994 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2D-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	1.0	1.0	0.0	0.0	90.95	-0.4	22.7	22.7					
100.0	100.0	101.0	101.0	0.1	0.1	90.95	-0.4	22.7	22.7	22.4	0.25	92.087		
200.0	200.0	201.0	201.0	0.3	0.3	90.95	-0.4	22.7	22.7	22.1	0.60	38.077 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	171.53	-0.4	22.7	24.4	23.4	0.94	25.835		
400.0	399.8	401.3	401.3	0.7	0.6	172.81	-0.2	22.2	29.1	27.8	1.29	22.533		
500.0	499.5	502.3	502.2	0.9	0.8	173.28	0.7	18.8	34.3	32.7	1.64	20.903		
600.0	598.7	603.4	603.1	1.2	1.0	173.08	2.7	11.9	39.5	37.6	1.99	19.847		
700.0	697.5	704.8	703.8	1.5	1.3	172.45	5.7	1.6	44.8	42.4	2.35	19.091		
800.0	795.6	806.2	804.3	1.9	1.6	171.52	9.7	-12.2	50.1	47.4	2.71	18.494		
900.0	893.1	907.6	904.1	2.3	1.9	170.40	14.6	-29.3	55.4	52.3	3.08	17.997		
1,000.0	989.6	1,007.3	1,002.0	2.8	2.2	169.74	19.8	-47.3	63.0	59.6	3.46	18.245		
1,100.0	1,085.3	1,106.7	1,099.6	3.3	2.6	169.70	24.9	-65.2	73.9	70.1	3.83	19.297		
1,200.0	1,180.7	1,206.0	1,197.2	3.9	2.9	169.80	30.1	-83.1	85.7	81.5	4.22	20.315		
1,300.0	1,276.1	1,305.3	1,294.7	4.4	3.3	169.87	35.2	-101.0	97.4	92.8	4.61	21.159		
1,400.0	1,371.6	1,404.6	1,392.3	5.0	3.7	169.93	40.4	-118.9	109.2	104.2	4.99	21.867		
1,500.0	1,467.0	1,503.9	1,489.8	5.6	4.0	169.97	45.5	-136.8	120.9	115.6	5.38	22.471		
1,600.0	1,562.4	1,603.2	1,587.4	6.1	4.4	170.01	50.7	-154.7	132.7	126.9	5.77	22.992		
1,700.0	1,657.8	1,702.5	1,684.9	6.7	4.8	170.04	55.9	-172.7	144.4	138.3	6.16	23.446		
1,800.0	1,753.2	1,801.8	1,782.4	7.3	5.1	170.07	61.0	-190.6	156.2	149.6	6.55	23.844		
1,900.0	1,848.6	1,901.1	1,880.0	7.8	5.5	170.10	66.2	-208.5	167.9	161.0	6.94	24.196		
2,000.0	1,944.1	2,000.5	1,977.5	8.4	5.9	170.12	71.3	-226.4	179.7	172.4	7.33	24.511		
2,100.0	2,039.5	2,099.8	2,075.1	9.0	6.2	170.13	76.5	-244.3	191.4	183.7	7.72	24.792		
2,200.0	2,134.9	2,199.1	2,172.6	9.5	6.6	170.15	81.6	-262.2	203.2	195.1	8.11	25.047		
2,300.0	2,230.3	2,298.4	2,270.2	10.1	7.0	170.16	86.8	-280.1	215.0	206.4	8.50	25.277		
2,400.0	2,325.7	2,397.7	2,367.7	10.7	7.3	170.18	91.9	-298.0	226.7	217.8	8.89	25.487		
2,500.0	2,421.1	2,497.0	2,465.2	11.2	7.7	170.19	97.1	-316.0	238.5	229.2	9.29	25.679		
2,600.0	2,516.6	2,596.3	2,562.8	11.8	8.1	170.20	102.3	-333.9	250.2	240.5	9.68	25.855		
2,700.0	2,612.0	2,695.6	2,660.3	12.4	8.5	170.21	107.4	-351.8	262.0	251.9	10.07	26.017		
2,800.0	2,707.4	2,794.9	2,757.9	12.9	8.8	170.22	112.6	-369.7	273.7	263.2	10.46	26.167		
2,900.0	2,802.8	2,894.2	2,855.4	13.5	9.2	170.22	117.7	-387.6	285.5	274.6	10.85	26.306		
3,000.0	2,898.2	2,993.5	2,952.9	14.1	9.6	170.23	122.9	-405.5	297.2	286.0	11.24	26.435		
3,100.0	2,993.6	3,092.8	3,050.5	14.7	9.9	170.24	128.0	-423.4	309.0	297.3	11.63	26.555		
3,200.0	3,089.0	3,192.1	3,148.0	15.2	10.3	170.24	133.2	-441.3	320.7	308.7	12.03	26.667		
3,300.0	3,184.5	3,291.4	3,245.6	15.8	10.7	170.25	138.4	-459.3	332.5	320.0	12.42	26.773		
3,400.0	3,279.9	3,390.8	3,343.1	16.4	11.1	170.25	143.5	-477.2	344.2	331.4	12.81	26.871		
3,500.0	3,375.3	3,490.1	3,440.7	16.9	11.4	170.26	148.7	-495.1	356.0	342.8	13.20	26.964		
3,600.0	3,470.7	3,589.4	3,538.2	17.5	11.8	170.26	153.8	-513.0	367.7	354.1	13.59	27.051		
3,700.0	3,566.1	3,688.7	3,635.7	18.1	12.2	170.27	159.0	-530.9	379.5	365.5	13.99	27.134		
3,800.0	3,661.5	3,788.0	3,733.3	18.7	12.5	170.27	164.1	-548.8	391.2	376.8	14.38	27.211		
3,900.0	3,757.0	3,887.3	3,830.8	19.2	12.9	170.28	169.3	-566.7	403.0	388.2	14.77	27.285		
4,000.0	3,852.4	3,986.6	3,928.4	19.8	13.3	170.28	174.4	-584.6	414.7	399.6	15.16	27.355		
4,100.0	3,947.8	4,085.9	4,025.9	20.4	13.7	170.28	179.6	-602.5	426.5	410.9	15.55	27.421		
4,200.0	4,043.2	4,185.2	4,123.5	20.9	14.0	170.29	184.8	-620.5	438.2	422.3	15.94	27.484		
4,300.0	4,138.6	4,284.5	4,221.0	21.5	14.4	170.29	189.9	-638.4	450.0	433.6	16.34	27.544		
4,400.0	4,234.0	4,383.8	4,318.5	22.1	14.8	170.29	195.1	-656.3	461.7	445.0	16.73	27.601		
4,500.0	4,329.5	4,483.1	4,416.1	22.7	15.2	170.30	200.2	-674.2	473.5	456.4	17.12	27.655		
4,600.0	4,424.9	4,582.4	4,513.6	23.2	15.5	170.30	205.4	-692.1	485.2	467.7	17.51	27.707		
4,700.0	4,520.3	4,681.7	4,611.2	23.8	15.9	170.30	210.5	-710.0	497.0	479.1	17.91	27.757		
4,800.0	4,615.7	4,781.1	4,708.7	24.4	16.3	170.30	215.7	-727.9	508.7	490.4	18.30	27.804		
4,900.0	4,711.1	4,880.4	4,806.2	24.9	16.6	170.31	220.9	-745.8	520.5	501.8	18.69	27.850		
5,000.0	4,806.5	4,979.7	4,903.8	25.5	17.0	170.31	226.0	-763.8	532.2	513.2	19.08	27.893		
5,100.0	4,901.9	5,079.0	5,001.3	26.1	17.4	170.31	231.2	-781.7	544.0	524.5	19.47	27.935		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2D-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	4,997.4	5,178.3	5,098.9	26.7	17.8	170.31	236.3	-799.6	555.7	535.9	19.87	27.975		
5,300.0	5,092.8	5,277.6	5,196.4	27.2	18.1	170.31	241.5	-817.5	567.5	547.2	20.26	28.014		
5,400.0	5,188.3	5,376.9	5,294.0	27.8	18.5	170.33	246.6	-835.4	578.9	558.2	20.66	28.014		
5,500.0	5,284.7	5,476.6	5,391.9	28.3	18.9	170.30	251.8	-853.4	587.3	566.2	21.08	27.852		
5,600.0	5,381.9	5,571.8	5,485.4	28.7	19.2	170.22	256.7	-870.5	592.3	570.8	21.50	27.555		
5,700.0	5,479.9	5,655.1	5,567.5	29.0	19.5	170.14	260.5	-883.7	596.1	574.2	21.86	27.271		
5,800.0	5,578.6	5,738.3	5,650.0	29.3	19.7	170.08	263.7	-894.6	599.1	577.0	22.19	27.001		
5,900.0	5,677.7	5,821.5	5,732.7	29.6	19.9	170.03	266.2	-903.2	601.6	579.1	22.49	26.745		
6,000.0	5,777.3	5,900.0	5,810.9	29.8	20.1	170.00	267.9	-909.2	603.4	580.6	22.76	26.511		
6,100.0	5,877.1	5,987.8	5,898.6	29.9	20.2	169.97	269.1	-913.5	604.5	581.5	23.01	26.268		
6,200.0	5,977.0	6,070.9	5,981.7	30.0	20.3	169.97	269.6	-915.2	605.0	581.8	23.23	26.043		
6,300.0	6,077.0	6,167.2	6,078.0	30.0	20.3	90.04	269.6	-915.2	605.1	581.3	23.80	25.424		
6,400.0	6,177.0	6,267.2	6,178.0	30.1	20.4	90.04	269.6	-915.2	605.1	580.9	24.12	25.088		
6,500.0	6,277.0	6,367.2	6,278.0	30.2	20.5	90.04	269.6	-915.2	605.1	580.6	24.44	24.761		
6,600.0	6,377.0	6,467.2	6,378.0	30.2	20.6	90.04	269.6	-915.2	605.1	580.3	24.76	24.441		
6,664.5	6,441.6	6,531.8	6,442.6	30.3	20.7	-90.82	269.6	-915.2	605.1	580.4	24.71	24.487		
6,700.0	6,477.0	6,567.2	6,478.0	30.3	20.7	-90.80	269.6	-915.2	605.1	580.2	24.82	24.382		
6,800.0	6,576.4	6,667.2	6,577.4	30.3	20.8	-90.78	259.9	-915.2	605.2	580.2	24.96	24.247		
6,900.0	6,672.6	6,767.1	6,673.5	30.3	20.7	-90.75	233.0	-915.2	605.6	580.7	24.92	24.306		
7,000.0	6,762.7	6,867.0	6,763.5	30.3	20.7	-90.69	189.9	-915.2	606.2	581.4	24.78	24.466		
7,100.0	6,843.9	6,967.0	6,844.7	30.3	20.7	-90.60	131.9	-915.2	607.1	582.4	24.68	24.602		
7,200.0	6,913.8	7,066.9	6,914.6	30.3	20.7	-90.50	60.6	-915.2	608.1	583.3	24.76	24.564		
7,300.0	6,970.2	7,166.9	6,971.0	30.4	20.8	-90.39	-21.7	-915.2	609.3	584.1	25.15	24.223		
7,400.0	7,011.5	7,266.8	7,012.3	30.6	21.0	-90.26	-112.6	-915.2	610.6	584.7	25.96	23.518		
7,500.0	7,036.3	7,366.8	7,037.2	30.8	21.3	-90.13	-209.3	-915.2	612.0	584.8	27.21	22.496		
7,600.0	7,044.0	7,466.8	7,045.0	31.1	21.8	-90.00	-308.9	-915.2	613.5	584.7	28.83	21.279		
7,700.0	7,044.0	7,566.8	7,045.0	31.6	22.4	-90.00	-408.9	-915.2	614.9	584.1	30.79	19.972		
7,800.0	7,044.0	7,666.8	7,045.0	32.1	23.2	-90.00	-508.9	-915.2	616.4	583.4	32.99	18.683		
7,900.0	7,044.0	7,766.7	7,045.0	32.7	24.0	-90.00	-608.9	-915.2	617.8	582.4	35.41	17.450		
8,000.0	7,044.0	7,866.7	7,045.0	33.4	24.9	-90.00	-708.8	-915.2	619.3	581.3	37.99	16.301		
8,100.0	7,044.0	7,966.7	7,045.0	34.1	26.0	-90.00	-808.8	-915.2	620.8	580.0	40.71	15.247		
8,200.0	7,044.0	8,066.7	7,045.0	35.0	27.1	-90.00	-908.8	-915.2	622.2	578.7	43.55	14.287		
8,300.0	7,044.0	8,166.7	7,045.0	35.9	28.2	-90.00	-1,008.8	-915.2	623.7	577.2	46.48	13.418		
8,400.0	7,044.0	8,266.7	7,045.0	36.9	29.4	-90.00	-1,108.8	-915.2	625.1	575.6	49.48	12.633		
8,500.0	7,044.0	8,366.7	7,045.0	37.9	30.7	-90.00	-1,208.8	-915.2	626.6	574.0	52.55	11.924		
8,600.0	7,044.0	8,466.7	7,045.0	39.0	32.0	-90.00	-1,308.8	-915.2	628.0	572.4	55.67	11.282		
8,700.0	7,044.0	8,566.7	7,045.0	40.1	33.4	-90.00	-1,408.8	-915.2	629.5	570.7	58.83	10.700		
8,800.0	7,044.0	8,666.7	7,045.0	41.3	34.8	-90.00	-1,508.8	-915.2	630.9	568.9	62.03	10.172		
8,900.0	7,044.0	8,766.6	7,045.0	42.5	36.2	-90.00	-1,608.7	-915.2	632.4	567.1	65.26	9.690		
9,000.0	7,044.0	8,866.6	7,045.0	43.7	37.7	-90.00	-1,708.7	-915.2	633.9	565.3	68.52	9.251		
9,100.0	7,044.0	8,966.6	7,045.0	45.0	39.2	-90.00	-1,808.7	-915.2	635.3	563.5	71.80	8.848		
9,200.0	7,044.0	9,066.6	7,045.0	46.3	40.7	-90.00	-1,908.7	-915.2	636.8	561.7	75.10	8.479		
9,300.0	7,044.0	9,166.6	7,045.0	47.7	42.2	-90.00	-2,008.7	-915.2	638.2	559.8	78.42	8.138		
9,400.0	7,044.0	9,266.6	7,045.0	49.1	43.7	-90.00	-2,108.7	-915.2	639.7	557.9	81.76	7.824		
9,500.0	7,044.0	9,366.6	7,045.0	50.5	45.3	-90.00	-2,208.7	-915.2	641.1	556.0	85.11	7.533		
9,600.0	7,044.0	9,466.6	7,045.0	51.9	46.9	-90.00	-2,308.7	-915.2	642.6	554.1	88.47	7.263		
9,700.0	7,044.0	9,566.6	7,045.0	53.3	48.5	-90.00	-2,408.7	-915.2	644.0	552.2	91.84	7.012		
9,800.0	7,044.0	9,666.5	7,045.0	54.8	50.1	-90.00	-2,508.7	-915.2	645.5	550.3	95.23	6.778		
9,900.0	7,044.0	9,766.5	7,045.0	56.3	51.7	-90.00	-2,608.6	-915.2	646.9	548.3	98.62	6.560		
10,000.0	7,044.0	9,866.5	7,045.0	57.7	53.3	-90.00	-2,708.6	-915.2	648.4	546.4	102.02	6.356		
10,100.0	7,044.0	9,966.5	7,045.0	59.3	54.9	-90.00	-2,808.6	-915.2	649.9	544.4	105.42	6.164		
10,200.0	7,044.0	10,066.5	7,045.0	60.8	56.5	-90.00	-2,908.6	-915.2	651.3	542.5	108.84	5.984		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2D-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,044.0	10,166.5	7,045.0	62.3	58.2	-90.00	-3,008.6	-915.2	652.8	540.5	112.26	5.815		
10,400.0	7,044.0	10,266.5	7,045.0	63.9	59.8	-90.00	-3,108.6	-915.2	654.2	538.5	115.68	5.655		
10,500.0	7,044.0	10,366.5	7,045.0	65.4	61.5	-90.00	-3,208.6	-915.2	655.7	536.6	119.11	5.505		
10,600.0	7,044.0	10,466.5	7,045.0	67.0	63.1	-90.00	-3,308.6	-915.2	657.1	534.6	122.54	5.363		
10,700.0	7,044.0	10,566.5	7,045.0	68.6	64.8	-90.00	-3,408.6	-915.2	658.6	532.6	125.98	5.228		
10,800.0	7,044.0	10,666.4	7,045.0	70.1	66.4	-90.00	-3,508.5	-915.2	660.0	530.6	129.42	5.100		
10,900.0	7,044.0	10,766.4	7,045.0	71.7	68.1	-90.00	-3,608.5	-915.2	661.5	528.6	132.87	4.979		
11,000.0	7,044.0	10,866.4	7,045.0	73.3	69.8	-90.00	-3,708.5	-915.2	663.0	526.6	136.31	4.863		
11,100.0	7,044.0	10,966.4	7,045.0	74.9	71.5	-90.00	-3,808.5	-915.2	664.4	524.6	139.76	4.754		
11,200.0	7,044.0	11,066.4	7,045.0	76.6	73.1	-90.00	-3,908.5	-915.2	665.9	522.6	143.22	4.649		
11,300.0	7,044.0	11,166.4	7,045.0	78.2	74.8	-90.00	-4,008.5	-915.2	667.3	520.6	146.67	4.550		
11,400.0	7,044.0	11,266.4	7,045.0	79.8	76.5	-90.00	-4,108.5	-915.2	668.8	518.6	150.13	4.455		
11,500.0	7,044.0	11,366.4	7,045.0	81.4	78.2	-90.00	-4,208.5	-915.2	670.2	516.6	153.59	4.364		
11,600.0	7,044.0	11,466.4	7,045.0	83.1	79.9	-90.00	-4,308.5	-915.2	671.7	514.6	157.06	4.277		
11,700.0	7,044.0	11,566.3	7,045.0	84.7	81.6	-90.00	-4,408.5	-915.2	673.1	512.6	160.52	4.193		
11,800.0	7,044.0	11,666.3	7,045.0	86.4	83.3	-90.00	-4,508.4	-915.2	674.6	510.6	163.99	4.114		
11,837.0	7,044.0	11,703.3	7,045.0	87.0	83.9	-90.00	-4,545.4	-915.2	675.1	509.9	165.27	4.085 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2E-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	90.74	-0.4	30.2	30.2					
100.0	100.0	101.0	101.0	0.1	0.1	90.74	-0.4	30.2	30.2	30.0	0.25	122.776		
200.0	200.0	201.0	201.0	0.3	0.3	90.74	-0.4	30.2	30.2	29.6	0.60	50.767 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	171.17	-0.4	30.2	31.9	31.0	0.94	33.834		
400.0	399.8	400.8	400.8	0.7	0.6	172.40	-0.4	30.2	37.1	35.8	1.29	28.732		
500.0	499.5	501.2	501.2	0.9	0.8	173.51	-0.1	29.4	44.9	43.3	1.64	27.399		
600.0	598.7	601.6	601.5	1.2	1.0	174.13	0.9	26.9	54.5	52.5	1.99	27.451		
700.0	697.5	701.9	701.8	1.5	1.2	174.43	2.4	22.8	65.9	63.6	2.33	28.263		
800.0	795.6	802.3	802.0	1.9	1.4	174.53	4.6	17.0	79.1	76.4	2.68	29.537		
900.0	893.1	902.6	902.0	2.3	1.6	174.50	7.3	9.6	94.0	91.0	3.02	31.110		
1,000.0	989.6	1,002.9	1,001.8	2.8	1.8	174.39	10.7	0.5	110.7	107.3	3.37	32.883		
1,100.0	1,085.3	1,103.3	1,101.5	3.3	2.1	174.24	14.7	-10.2	129.0	125.3	3.72	34.704		
1,200.0	1,180.7	1,204.0	1,201.4	3.9	2.3	173.99	19.4	-22.5	146.5	142.5	4.09	35.855		
1,300.0	1,276.1	1,305.4	1,301.6	4.4	2.6	173.61	24.7	-36.6	162.4	157.9	4.46	36.377		
1,400.0	1,371.6	1,405.2	1,400.1	5.0	2.9	173.17	30.3	-51.8	177.0	172.1	4.85	36.525		
1,500.0	1,467.0	1,504.1	1,497.7	5.6	3.2	172.80	36.0	-66.9	191.5	186.3	5.23	36.624		
1,600.0	1,562.4	1,603.1	1,595.3	6.1	3.5	172.48	41.6	-82.0	206.0	200.4	5.61	36.692		
1,700.0	1,657.8	1,702.0	1,693.0	6.7	3.9	172.20	47.3	-97.0	220.5	214.5	6.00	36.738		
1,800.0	1,753.2	1,800.9	1,790.6	7.3	4.2	171.96	53.0	-112.1	235.0	228.6	6.39	36.765		
1,900.0	1,848.6	1,899.9	1,888.2	7.8	4.5	171.74	58.6	-127.2	249.6	242.8	6.78	36.781		
2,000.0	1,944.1	1,998.8	1,985.8	8.4	4.8	171.55	64.3	-142.3	264.1	256.9	7.18	36.786		
2,100.0	2,039.5	2,097.7	2,083.4	9.0	5.1	171.38	69.9	-157.4	278.6	271.0	7.57	36.784		
2,200.0	2,134.9	2,196.7	2,181.0	9.5	5.5	171.22	75.6	-172.5	293.1	285.2	7.97	36.778		
2,300.0	2,230.3	2,295.6	2,278.6	10.1	5.8	171.08	81.2	-187.6	307.7	299.3	8.37	36.767		
2,400.0	2,325.7	2,394.6	2,376.3	10.7	6.1	170.96	86.9	-202.7	322.2	313.4	8.77	36.753		
2,500.0	2,421.1	2,493.5	2,473.9	11.2	6.4	170.84	92.5	-217.8	336.7	327.6	9.17	36.737		
2,600.0	2,516.6	2,592.4	2,571.5	11.8	6.8	170.73	98.2	-232.9	351.3	341.7	9.57	36.720		
2,700.0	2,612.0	2,691.4	2,669.1	12.4	7.1	170.64	103.9	-248.0	365.8	355.9	9.97	36.701		
2,800.0	2,707.4	2,790.3	2,766.7	12.9	7.4	170.54	109.5	-263.1	380.4	370.0	10.37	36.682		
2,900.0	2,802.8	2,889.2	2,864.3	13.5	7.8	170.46	115.2	-278.1	394.9	384.1	10.77	36.663		
3,000.0	2,898.2	2,988.2	2,961.9	14.1	8.1	170.38	120.8	-293.2	409.4	398.3	11.17	36.643		
3,100.0	2,993.6	3,087.1	3,059.6	14.7	8.4	170.31	126.5	-308.3	424.0	412.4	11.58	36.623		
3,200.0	3,089.0	3,186.0	3,157.2	15.2	8.7	170.24	132.1	-323.4	438.5	426.5	11.98	36.604		
3,300.0	3,184.5	3,285.0	3,254.8	15.8	9.1	170.18	137.8	-338.5	453.1	440.7	12.38	36.584		
3,400.0	3,279.9	3,383.9	3,352.4	16.4	9.4	170.12	143.4	-353.6	467.6	454.8	12.79	36.565		
3,500.0	3,375.3	3,482.8	3,450.0	16.9	9.7	170.06	149.1	-368.7	482.2	469.0	13.19	36.546		
3,600.0	3,470.7	3,581.8	3,547.6	17.5	10.1	170.01	154.7	-383.8	496.7	483.1	13.60	36.528		
3,700.0	3,566.1	3,680.7	3,645.2	18.1	10.4	169.96	160.4	-398.9	511.2	497.2	14.00	36.510		
3,800.0	3,661.5	3,779.7	3,742.9	18.7	10.7	169.91	166.1	-414.0	525.8	511.4	14.41	36.492		
3,900.0	3,757.0	3,878.6	3,840.5	19.2	11.1	169.87	171.7	-429.1	540.3	525.5	14.81	36.475		
4,000.0	3,852.4	3,977.5	3,938.1	19.8	11.4	169.83	177.4	-444.1	554.9	539.7	15.22	36.458		
4,100.0	3,947.8	4,076.5	4,035.7	20.4	11.7	169.79	183.0	-459.2	569.4	553.8	15.63	36.442		
4,200.0	4,043.2	4,175.4	4,133.3	20.9	12.1	169.75	188.7	-474.3	584.0	567.9	16.03	36.426		
4,300.0	4,138.6	4,274.3	4,230.9	21.5	12.4	169.71	194.3	-489.4	598.5	582.1	16.44	36.410		
4,400.0	4,234.0	4,373.3	4,328.5	22.1	12.7	169.68	200.0	-504.5	613.1	596.2	16.84	36.395		
4,500.0	4,329.5	4,472.2	4,426.2	22.7	13.0	169.64	205.6	-519.6	627.6	610.4	17.25	36.381		
4,600.0	4,424.9	4,571.1	4,523.8	23.2	13.4	169.61	211.3	-534.7	642.2	624.5	17.66	36.366		
4,700.0	4,520.3	4,670.1	4,621.4	23.8	13.7	169.58	217.0	-549.8	656.7	638.6	18.07	36.352		
4,800.0	4,615.7	4,769.0	4,719.0	24.4	14.0	169.55	222.6	-564.9	671.3	652.8	18.47	36.339		
4,900.0	4,711.1	4,867.9	4,816.6	24.9	14.4	169.53	228.3	-580.0	685.8	666.9	18.88	36.326		
5,000.0	4,806.5	4,966.9	4,914.2	25.5	14.7	169.50	233.9	-595.1	700.4	681.1	19.29	36.313		
5,100.0	4,901.9	5,065.8	5,011.8	26.1	15.0	169.48	239.6	-610.1	714.9	695.2	19.69	36.300		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2E-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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	4,997.4	5,160.1	5,104.9	26.7	15.3	169.46	244.9	-624.4	729.6	709.5	20.09	36.317		
5,300.0	5,092.8	5,248.3	5,192.1	27.2	15.6	169.47	249.5	-636.7	745.5	725.0	20.46	36.438		
5,400.0	5,188.3	5,336.0	5,279.0	27.8	15.9	169.54	253.6	-647.6	762.4	741.6	20.83	36.608		
5,500.0	5,284.7	5,423.8	5,366.2	28.3	16.1	169.64	257.3	-657.4	777.8	756.6	21.19	36.707		
5,600.0	5,381.9	5,511.6	5,453.6	28.7	16.3	169.73	260.4	-665.8	791.2	769.7	21.53	36.743		
5,700.0	5,479.9	5,600.0	5,541.6	29.0	16.5	169.80	263.2	-673.1	802.6	780.8	21.86	36.718		
5,800.0	5,578.6	5,687.5	5,628.8	29.3	16.7	169.85	265.4	-679.0	812.1	789.9	22.16	36.639		
5,900.0	5,677.7	5,775.5	5,716.7	29.6	16.8	169.90	267.2	-683.7	819.5	797.1	22.45	36.503		
6,000.0	5,777.3	5,863.5	5,804.6	29.8	16.9	169.93	268.4	-687.2	825.0	802.3	22.72	36.314		
6,100.0	5,877.1	5,951.5	5,892.6	29.9	17.0	169.95	269.3	-689.3	828.5	805.5	22.97	36.073		
6,200.0	5,977.0	6,039.6	5,980.7	30.0	17.1	169.96	269.6	-690.3	830.0	806.8	23.20	35.781		
6,300.0	6,077.0	6,136.9	6,078.0	30.0	17.3	90.03	269.6	-690.3	830.0	806.3	23.74	34.961		
6,400.0	6,177.0	6,236.9	6,178.0	30.1	17.4	90.03	269.6	-690.3	830.0	806.0	24.06	34.499		
6,500.0	6,277.0	6,336.9	6,278.0	30.2	17.5	90.03	269.6	-690.3	830.0	805.6	24.38	34.047		
6,600.0	6,377.0	6,436.9	6,378.0	30.2	17.6	90.03	269.6	-690.3	830.0	805.3	24.70	33.607		
6,627.6	6,404.7	6,464.5	6,405.6	30.3	17.6	-90.77	269.1	-690.3	830.0	805.5	24.53	33.839		
6,700.0	6,477.0	6,536.0	6,476.6	30.3	17.6	-90.25	261.6	-690.3	830.1	805.5	24.55	33.805		
6,800.0	6,576.4	6,632.1	6,569.6	30.3	17.6	-89.19	237.7	-690.3	830.5	806.1	24.38	34.070		
6,900.0	6,672.6	6,725.9	6,655.3	30.3	17.6	-88.16	199.7	-690.3	831.4	807.3	24.17	34.404		
7,000.0	6,762.7	6,817.8	6,732.1	30.3	17.5	-87.19	149.5	-690.3	832.8	808.7	24.05	34.628		
7,100.0	6,843.9	6,908.0	6,798.8	30.3	17.5	-86.31	88.8	-690.3	834.4	810.3	24.12	34.594		
7,200.0	6,913.8	6,996.9	6,854.4	30.3	17.6	-85.53	19.5	-690.3	836.3	811.8	24.44	34.216		
7,300.0	6,970.2	7,084.8	6,898.1	30.4	17.7	-84.88	-56.5	-690.3	838.2	813.1	25.03	33.483		
7,400.0	7,011.5	7,171.8	6,929.5	30.6	18.0	-84.36	-137.6	-690.3	840.1	814.2	25.89	32.453		
7,500.0	7,036.3	7,258.4	6,948.2	30.8	18.4	-84.00	-222.1	-690.3	841.8	814.8	26.96	31.221		
7,600.0	7,044.0	7,345.5	6,954.0	31.1	18.9	-83.80	-308.9	-690.3	843.4	815.1	28.26	29.839		
7,700.0	7,044.0	7,445.5	6,954.0	31.6	19.6	-83.82	-408.9	-690.3	844.8	814.6	30.23	27.944		
7,800.0	7,044.0	7,545.5	6,954.0	32.1	20.4	-83.83	-508.9	-690.3	846.3	813.8	32.44	26.085		
7,900.0	7,044.0	7,645.4	6,954.0	32.7	21.4	-83.84	-608.9	-690.3	847.7	812.8	34.86	24.316		
8,000.0	7,044.0	7,745.4	6,954.0	33.4	22.4	-83.85	-708.8	-690.3	849.1	811.7	37.45	22.673		
8,100.0	7,044.0	7,845.4	6,954.0	34.1	23.6	-83.86	-808.8	-690.3	850.6	810.4	40.18	21.171		
8,200.0	7,044.0	7,945.4	6,954.0	35.0	24.8	-83.87	-908.8	-690.3	852.0	809.0	43.01	19.809		
8,300.0	7,044.0	8,045.4	6,954.0	35.9	26.1	-83.88	-1,008.8	-690.3	853.5	807.5	45.94	18.578		
8,400.0	7,044.0	8,145.4	6,954.0	36.9	27.4	-83.89	-1,108.8	-690.3	854.9	806.0	48.94	17.469		
8,500.0	7,044.0	8,245.4	6,954.0	37.9	28.8	-83.90	-1,208.8	-690.3	856.4	804.4	52.00	16.468		
8,600.0	7,044.0	8,345.4	6,954.0	39.0	30.2	-83.91	-1,308.8	-690.3	857.8	802.7	55.11	15.564		
8,700.0	7,044.0	8,445.4	6,954.0	40.1	31.6	-83.92	-1,408.8	-690.3	859.3	801.0	58.27	14.746		
8,800.0	7,044.0	8,545.3	6,954.0	41.3	33.1	-83.93	-1,508.8	-690.3	860.7	799.3	61.46	14.004		
8,900.0	7,044.0	8,645.3	6,954.0	42.5	34.6	-83.94	-1,608.7	-690.3	862.2	797.5	64.68	13.329		
9,000.0	7,044.0	8,745.3	6,954.0	43.7	36.1	-83.95	-1,708.7	-690.3	863.6	795.7	67.93	12.713		
9,100.0	7,044.0	8,845.3	6,954.0	45.0	37.7	-83.96	-1,808.7	-690.3	865.1	793.9	71.21	12.149		
9,200.0	7,044.0	8,945.3	6,954.0	46.3	39.2	-83.97	-1,908.7	-690.3	866.5	792.0	74.50	11.631		
9,300.0	7,044.0	9,045.3	6,954.0	47.7	40.8	-83.98	-2,008.7	-690.3	868.0	790.1	77.81	11.155		
9,400.0	7,044.0	9,145.3	6,954.0	49.1	42.4	-83.99	-2,108.7	-690.3	869.4	788.3	81.13	10.716		
9,500.0	7,044.0	9,245.3	6,954.0	50.5	44.0	-84.00	-2,208.7	-690.3	870.8	786.4	84.47	10.310		
9,600.0	7,044.0	9,345.3	6,954.0	51.9	45.6	-84.01	-2,308.7	-690.3	872.3	784.5	87.82	9.933		
9,700.0	7,044.0	9,445.2	6,954.0	53.3	47.2	-84.02	-2,408.7	-690.3	873.7	782.6	91.18	9.583		
9,800.0	7,044.0	9,545.2	6,954.0	54.8	48.9	-84.03	-2,508.7	-690.3	875.2	780.6	94.55	9.256		
9,900.0	7,044.0	9,645.2	6,954.0	56.3	50.5	-84.04	-2,608.6	-690.3	876.6	778.7	97.93	8.952		
10,000.0	7,044.0	9,745.2	6,954.0	57.7	52.2	-84.05	-2,708.6	-690.3	878.1	776.8	101.32	8.667		
10,100.0	7,044.0	9,845.2	6,954.0	59.3	53.8	-84.06	-2,808.6	-690.3	879.5	774.8	104.71	8.400		
10,200.0	7,044.0	9,945.2	6,954.0	60.8	55.5	-84.07	-2,908.6	-690.3	881.0	772.9	108.11	8.149		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2E-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,044.0	10,045.2	6,954.0	62.3	57.1	-84.08	-3,008.6	-690.3	882.4	770.9	111.51	7.913		
10,400.0	7,044.0	10,145.2	6,954.0	63.9	58.8	-84.09	-3,108.6	-690.3	883.9	768.9	114.92	7.691		
10,500.0	7,044.0	10,245.2	6,954.0	65.4	60.5	-84.10	-3,208.6	-690.3	885.3	767.0	118.34	7.481		
10,600.0	7,044.0	10,345.2	6,954.0	67.0	62.2	-84.11	-3,308.6	-690.3	886.8	765.0	121.76	7.283		
10,700.0	7,044.0	10,445.1	6,954.0	68.6	63.9	-84.12	-3,408.6	-690.3	888.2	763.0	125.18	7.095		
10,800.0	7,044.0	10,545.1	6,954.0	70.1	65.5	-84.13	-3,508.5	-690.2	889.7	761.0	128.61	6.917		
10,900.0	7,044.0	10,645.1	6,954.0	71.7	67.2	-84.14	-3,608.5	-690.2	891.1	759.1	132.04	6.749		
11,000.0	7,044.0	10,745.1	6,954.0	73.3	68.9	-84.15	-3,708.5	-690.2	892.6	757.1	135.48	6.588		
11,100.0	7,044.0	10,845.1	6,954.0	74.9	70.6	-84.16	-3,808.5	-690.2	894.0	755.1	138.91	6.436		
11,200.0	7,044.0	10,945.1	6,954.0	76.6	72.3	-84.17	-3,908.5	-690.2	895.4	753.1	142.36	6.290		
11,300.0	7,044.0	11,045.1	6,954.0	78.2	74.0	-84.18	-4,008.5	-690.2	896.9	751.1	145.80	6.152		
11,400.0	7,044.0	11,145.1	6,954.0	79.8	75.7	-84.19	-4,108.5	-690.2	898.3	749.1	149.24	6.019		
11,500.0	7,044.0	11,245.1	6,954.0	81.4	77.4	-84.19	-4,208.5	-690.2	899.8	747.1	152.69	5.893		
11,600.0	7,044.0	11,345.0	6,954.0	83.1	79.2	-84.20	-4,308.5	-690.2	901.2	745.1	156.14	5.772		
11,700.0	7,044.0	11,445.0	6,954.0	84.7	80.9	-84.21	-4,408.4	-690.2	902.7	743.1	159.59	5.656		
11,800.0	7,044.0	11,545.0	6,954.0	86.4	82.6	-84.22	-4,508.4	-690.2	904.1	741.1	163.04	5.545		
11,837.0	7,044.0	11,582.0	6,954.0	87.0	83.2	-84.23	-4,545.4	-690.2	904.7	740.3	164.32	5.505 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2F-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	2.0	2.0	0.0	0.0	90.61	-0.4	37.5	37.5					
100.0	100.0	102.0	102.0	0.1	0.1	90.61	-0.4	37.5	37.5	37.2	0.25	151.256		
200.0	200.0	202.0	202.0	0.3	0.3	90.61	-0.4	37.5	37.5	36.9	0.60	62.802 CC, ES		
300.0	300.0	302.0	302.0	0.5	0.5	170.96	-0.4	37.5	39.2	38.3	0.95	41.461		
400.0	399.8	401.8	401.8	0.7	0.6	172.00	-0.4	37.5	44.4	43.1	1.29	34.311		
500.0	499.5	501.9	501.9	0.9	0.8	173.19	-0.3	37.3	52.8	51.2	1.64	32.192		
600.0	598.7	602.3	602.2	1.2	1.0	173.80	0.6	35.7	63.3	61.3	1.99	31.863 SF		
700.0	697.5	702.6	702.5	1.5	1.2	173.96	2.2	32.6	75.7	73.4	2.33	32.437		
800.0	795.6	802.9	802.7	1.9	1.4	173.83	4.7	27.9	89.9	87.2	2.68	33.552		
900.0	893.1	903.1	902.7	2.3	1.6	173.54	8.1	21.7	106.0	103.0	3.03	35.006		
1,000.0	989.6	1,003.3	1,002.5	2.8	1.8	173.16	12.2	14.0	123.9	120.5	3.38	36.677		
1,100.0	1,085.3	1,103.5	1,102.1	3.3	2.0	172.75	17.2	4.7	143.5	139.8	3.74	38.388		
1,200.0	1,180.7	1,201.9	1,199.8	3.9	2.3	172.34	22.6	-5.4	163.1	159.0	4.12	39.627		
1,300.0	1,276.1	1,300.0	1,297.2	4.4	2.5	172.02	28.0	-15.4	182.6	178.1	4.49	40.633		
1,400.0	1,371.6	1,398.0	1,394.6	5.0	2.7	171.76	33.4	-25.4	202.1	197.2	4.87	41.462		
1,500.0	1,467.0	1,496.1	1,492.0	5.6	3.0	171.54	38.8	-35.5	221.6	216.4	5.26	42.155		
1,600.0	1,562.4	1,594.2	1,589.4	6.1	3.2	171.36	44.2	-45.5	241.2	235.5	5.64	42.741		
1,700.0	1,657.8	1,692.2	1,686.9	6.7	3.5	171.21	49.5	-55.5	260.7	254.7	6.03	43.243		
1,800.0	1,753.2	1,790.3	1,784.3	7.3	3.7	171.08	54.9	-65.5	280.2	273.8	6.42	43.676		
1,900.0	1,848.6	1,888.4	1,881.7	7.8	4.0	170.96	60.3	-75.6	299.8	293.0	6.80	44.054		
2,000.0	1,944.1	1,986.5	1,979.1	8.4	4.3	170.86	65.7	-85.6	319.3	312.1	7.19	44.386		
2,100.0	2,039.5	2,084.5	2,076.5	9.0	4.5	170.78	71.1	-95.6	338.8	331.2	7.58	44.680		
2,200.0	2,134.9	2,182.6	2,173.9	9.5	4.8	170.70	76.5	-105.7	358.4	350.4	7.97	44.941		
2,300.0	2,230.3	2,280.7	2,271.3	10.1	5.0	170.63	81.9	-115.7	377.9	369.5	8.37	45.176		
2,400.0	2,325.7	2,378.8	2,368.7	10.7	5.3	170.56	87.2	-125.7	397.4	388.7	8.76	45.387		
2,500.0	2,421.1	2,476.8	2,466.1	11.2	5.5	170.50	92.6	-135.8	417.0	407.8	9.15	45.578		
2,600.0	2,516.6	2,574.9	2,563.5	11.8	5.8	170.45	98.0	-145.8	436.5	427.0	9.54	45.751		
2,700.0	2,612.0	2,673.0	2,660.9	12.4	6.1	170.40	103.4	-155.8	456.0	446.1	9.93	45.910		
2,800.0	2,707.4	2,771.0	2,758.4	12.9	6.3	170.36	108.8	-165.9	475.6	465.3	10.33	46.055		
2,900.0	2,802.8	2,869.1	2,855.8	13.5	6.6	170.32	114.2	-175.9	495.1	484.4	10.72	46.188		
3,000.0	2,898.2	2,967.2	2,953.2	14.1	6.8	170.28	119.6	-185.9	514.7	503.5	11.11	46.311		
3,100.0	2,993.6	3,065.3	3,050.6	14.7	7.1	170.25	125.0	-196.0	534.2	522.7	11.51	46.425		
3,200.0	3,089.0	3,163.3	3,148.0	15.2	7.4	170.21	130.3	-206.0	553.7	541.8	11.90	46.530		
3,300.0	3,184.5	3,261.4	3,245.4	15.8	7.6	170.18	135.7	-216.0	573.3	561.0	12.29	46.628		
3,400.0	3,279.9	3,359.5	3,342.8	16.4	7.9	170.15	141.1	-226.0	592.8	580.1	12.69	46.720		
3,500.0	3,375.3	3,457.5	3,440.2	16.9	8.2	170.13	146.5	-236.1	612.3	599.3	13.08	46.805		
3,600.0	3,470.7	3,555.6	3,537.6	17.5	8.4	170.10	151.9	-246.1	631.9	618.4	13.48	46.885		
3,700.0	3,566.1	3,653.7	3,635.0	18.1	8.7	170.08	157.3	-256.1	651.4	637.6	13.87	46.961		
3,800.0	3,661.5	3,751.8	3,732.4	18.7	8.9	170.06	162.7	-266.2	671.0	656.7	14.27	47.031		
3,900.0	3,757.0	3,849.8	3,829.9	19.2	9.2	170.04	168.0	-276.2	690.5	675.8	14.66	47.098		
4,000.0	3,852.4	3,947.9	3,927.3	19.8	9.5	170.02	173.4	-286.2	710.0	695.0	15.06	47.160		
4,100.0	3,947.8	4,046.0	4,024.7	20.4	9.7	170.00	178.8	-296.3	729.6	714.1	15.45	47.220		
4,200.0	4,043.2	4,144.1	4,122.1	20.9	10.0	169.98	184.2	-306.3	749.1	733.3	15.85	47.276		
4,300.0	4,138.6	4,242.1	4,219.5	21.5	10.2	169.96	189.6	-316.3	768.7	752.4	16.24	47.329		
4,400.0	4,234.0	4,340.2	4,316.9	22.1	10.5	169.95	195.0	-326.4	788.2	771.6	16.64	47.379		
4,500.0	4,329.5	4,438.3	4,414.3	22.7	10.8	169.93	200.4	-336.4	807.7	790.7	17.03	47.427		
4,600.0	4,424.9	4,536.3	4,511.7	23.2	11.0	169.92	205.8	-346.4	827.3	809.9	17.43	47.473		
4,700.0	4,520.3	4,634.4	4,609.1	23.8	11.3	169.91	211.1	-356.5	846.8	829.0	17.82	47.516		
4,800.0	4,615.7	4,732.5	4,706.5	24.4	11.6	169.89	216.5	-366.5	866.4	848.1	18.22	47.557		
4,900.0	4,711.1	4,830.6	4,803.9	24.9	11.8	169.88	221.9	-376.5	885.9	867.3	18.61	47.597		
5,000.0	4,806.5	4,928.6	4,901.4	25.5	12.1	169.87	227.3	-386.5	905.4	886.4	19.01	47.635		
5,100.0	4,901.9	5,026.7	4,998.8	26.1	12.3	169.86	232.7	-396.6	925.0	905.6	19.40	47.671		

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 Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2F-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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)				
5,200.0	4,997.4	5,124.8	5,096.2	26.7	12.6	169.85	238.1	-406.6	944.5	924.7	19.80	47.705		
5,300.0	5,092.8	5,222.8	5,193.6	27.2	12.9	169.84	243.5	-416.6	964.1	943.9	20.19	47.738		
5,400.0	5,188.3	5,321.0	5,291.1	27.8	13.1	169.85	248.8	-426.7	983.2	962.6	20.61	47.708		
5,500.0	5,284.7	5,412.4	5,381.8	28.3	13.4	169.88	253.8	-435.9	999.6	978.6	21.02	47.558		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2G-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	2.0	2.0	0.0	0.0	90.53	-0.4	45.0	45.0					
100.0	100.0	102.0	102.0	0.1	0.1	90.53	-0.4	45.0	45.0	44.8	0.25	181.731		
200.0	200.0	202.0	202.0	0.3	0.3	90.53	-0.4	45.0	45.0	44.4	0.60	75.456 CC, ES		
300.0	300.0	302.0	302.0	0.5	0.5	170.81	-0.4	45.0	46.8	45.8	0.95	49.446		
400.0	399.8	401.8	401.8	0.7	0.6	171.71	-0.4	45.0	51.9	50.6	1.29	40.145		
500.0	499.5	501.5	501.5	0.9	0.8	172.88	-0.4	45.0	60.6	58.9	1.64	36.932		
600.0	598.7	601.7	601.7	1.2	1.0	173.60	0.2	44.4	72.0	70.0	1.99	36.245 SF		
700.0	697.5	701.8	701.8	1.5	1.2	173.61	2.0	42.5	85.5	83.2	2.33	36.668		
800.0	795.6	801.8	801.7	1.9	1.4	173.18	5.0	39.3	101.2	98.5	2.68	37.741		
900.0	893.1	901.7	901.4	2.3	1.6	172.52	9.3	34.8	118.9	115.9	3.03	39.204		
1,000.0	989.6	1,000.4	999.7	2.8	1.7	171.81	14.4	29.4	139.0	135.6	3.39	41.005		
1,100.0	1,085.3	1,097.6	1,096.7	3.3	1.9	171.43	19.6	23.9	162.2	158.4	3.75	43.246		
1,200.0	1,180.7	1,194.7	1,193.5	3.9	2.2	171.22	24.8	18.4	186.2	182.1	4.12	45.142		
1,300.0	1,276.1	1,291.7	1,290.3	4.4	2.4	171.06	29.9	13.0	210.2	205.7	4.50	46.699		
1,400.0	1,371.6	1,388.8	1,387.0	5.0	2.6	170.93	35.1	7.5	234.3	229.4	4.88	47.998		
1,500.0	1,467.0	1,485.9	1,483.8	5.6	2.8	170.82	40.3	2.0	258.3	253.1	5.26	49.098		
1,600.0	1,562.4	1,582.9	1,580.6	6.1	3.0	170.73	45.4	-3.4	282.4	276.7	5.64	50.039		
1,700.0	1,657.8	1,680.0	1,677.4	6.7	3.2	170.66	50.6	-8.9	306.4	300.4	6.03	50.854		
1,800.0	1,753.2	1,777.1	1,774.1	7.3	3.4	170.60	55.8	-14.3	330.4	324.0	6.41	51.565		
1,900.0	1,848.6	1,874.1	1,870.9	7.8	3.6	170.54	60.9	-19.8	354.5	347.7	6.79	52.191		
2,000.0	1,944.1	1,971.2	1,967.7	8.4	3.8	170.50	66.1	-25.3	378.5	371.3	7.18	52.747		
2,100.0	2,039.5	2,068.3	2,064.5	9.0	4.0	170.46	71.3	-30.7	402.6	395.0	7.56	53.243		
2,200.0	2,134.9	2,165.3	2,161.2	9.5	4.2	170.42	76.4	-36.2	426.6	418.7	7.95	53.688		
2,300.0	2,230.3	2,262.4	2,258.0	10.1	4.5	170.39	81.6	-41.7	450.7	442.3	8.33	54.090		
2,400.0	2,325.7	2,359.5	2,354.8	10.7	4.7	170.36	86.8	-47.1	474.7	466.0	8.72	54.455		
2,500.0	2,421.1	2,456.5	2,451.6	11.2	4.9	170.33	91.9	-52.6	498.7	489.6	9.10	54.787		
2,600.0	2,516.6	2,553.6	2,548.3	11.8	5.1	170.30	97.1	-58.0	522.8	513.3	9.49	55.091		
2,700.0	2,612.0	2,650.7	2,645.1	12.4	5.3	170.28	102.3	-63.5	546.8	537.0	9.88	55.370		
2,800.0	2,707.4	2,747.7	2,741.9	12.9	5.5	170.26	107.4	-69.0	570.9	560.6	10.26	55.627		
2,900.0	2,802.8	2,844.8	2,838.7	13.5	5.7	170.24	112.6	-74.4	594.9	584.3	10.65	55.864		
3,000.0	2,898.2	2,941.9	2,935.4	14.1	5.9	170.23	117.8	-79.9	619.0	607.9	11.04	56.085		
3,100.0	2,993.6	3,038.9	3,032.2	14.7	6.2	170.21	123.0	-85.4	643.0	631.6	11.42	56.289		
3,200.0	3,089.0	3,136.0	3,129.0	15.2	6.4	170.19	128.1	-90.8	667.0	655.2	11.81	56.480		
3,300.0	3,184.5	3,233.1	3,225.8	15.8	6.6	170.18	133.3	-96.3	691.1	678.9	12.20	56.658		
3,400.0	3,279.9	3,330.1	3,322.5	16.4	6.8	170.17	138.5	-101.8	715.1	702.5	12.58	56.825		
3,500.0	3,375.3	3,427.2	3,419.3	16.9	7.0	170.16	143.6	-107.2	739.2	726.2	12.97	56.981		
3,600.0	3,470.7	3,524.3	3,516.1	17.5	7.2	170.14	148.8	-112.7	763.2	749.9	13.36	57.128		
3,700.0	3,566.1	3,621.3	3,612.8	18.1	7.4	170.13	154.0	-118.1	787.3	773.5	13.75	57.267		
3,800.0	3,661.5	3,718.4	3,709.6	18.7	7.6	170.12	159.1	-123.6	811.3	797.2	14.13	57.398		
3,900.0	3,757.0	3,815.5	3,806.4	19.2	7.9	170.11	164.3	-129.1	835.4	820.8	14.52	57.521		
4,000.0	3,852.4	3,912.5	3,903.2	19.8	8.1	170.11	169.5	-134.5	859.4	844.5	14.91	57.638		
4,100.0	3,947.8	4,009.6	3,999.9	20.4	8.3	170.10	174.6	-140.0	883.4	868.1	15.30	57.748		
4,200.0	4,043.2	4,106.7	4,096.7	20.9	8.5	170.09	179.8	-145.5	907.5	891.8	15.69	57.853		
4,300.0	4,138.6	4,203.7	4,193.5	21.5	8.7	170.08	185.0	-150.9	931.5	915.5	16.07	57.953		
4,400.0	4,234.0	4,300.8	4,290.3	22.1	8.9	170.08	190.1	-156.4	955.6	939.1	16.46	58.048		
4,500.0	4,329.5	4,397.9	4,387.0	22.7	9.1	170.07	195.3	-161.9	979.6	962.8	16.85	58.138		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2H-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	2.0	2.0	0.0	0.0	90.79	-0.7	52.6	52.6					
100.0	100.0	102.0	102.0	0.1	0.1	90.79	-0.7	52.6	52.6	52.3	0.25	212.219		
200.0	200.0	202.0	202.0	0.3	0.3	90.79	-0.7	52.6	52.6	52.0	0.60	88.114 CC, ES		
300.0	300.0	302.0	302.0	0.5	0.5	171.01	-0.7	52.6	54.3	53.4	0.95	57.438		
400.0	399.8	401.8	401.8	0.7	0.6	171.79	-0.7	52.6	59.5	58.2	1.29	45.988		
500.0	499.5	501.6	501.6	0.9	0.8	172.63	-0.5	52.5	68.1	66.4	1.64	41.489		
600.0	598.7	601.3	601.3	1.2	1.0	172.50	1.2	52.1	79.6	77.7	1.99	40.067 SF		
700.0	697.5	700.7	700.6	1.5	1.2	171.66	4.6	51.3	94.2	91.8	2.34	40.266		
800.0	795.6	799.4	799.1	1.9	1.4	170.54	9.4	50.0	111.7	109.0	2.69	41.445		
900.0	893.1	897.1	896.8	2.3	1.5	169.85	14.4	48.8	132.6	129.5	3.05	43.412		
1,000.0	989.6	994.2	993.7	2.8	1.7	169.56	19.4	47.5	156.8	153.4	3.41	45.945		
1,100.0	1,085.3	1,090.3	1,089.7	3.3	1.9	169.54	24.4	46.3	184.2	180.4	3.77	48.797		
1,200.0	1,180.7	1,186.3	1,185.5	3.9	2.1	169.62	29.3	45.0	212.4	208.3	4.15	51.190		
1,300.0	1,276.1	1,282.2	1,281.3	4.4	2.3	169.68	34.2	43.8	240.7	236.1	4.53	53.173		
1,400.0	1,371.6	1,378.1	1,377.1	5.0	2.5	169.73	39.2	42.5	268.9	264.0	4.90	54.841		
1,500.0	1,467.0	1,474.1	1,472.9	5.6	2.7	169.77	44.1	41.3	297.1	291.8	5.28	56.264		
1,600.0	1,562.4	1,570.0	1,568.7	6.1	2.8	169.80	49.0	40.1	325.4	319.7	5.66	57.490		
1,700.0	1,657.8	1,665.9	1,664.5	6.7	3.0	169.83	54.0	38.8	353.6	347.5	6.04	58.559		
1,800.0	1,753.2	1,761.8	1,760.3	7.3	3.2	169.85	58.9	37.6	381.8	375.4	6.42	59.497		
1,900.0	1,848.6	1,857.8	1,856.1	7.8	3.4	169.87	63.8	36.3	410.0	403.2	6.80	60.329		
2,000.0	1,944.1	1,953.7	1,951.9	8.4	3.6	169.89	68.7	35.1	438.3	431.1	7.18	61.070		
2,100.0	2,039.5	2,049.6	2,047.7	9.0	3.8	169.90	73.7	33.9	466.5	459.0	7.56	61.734		
2,200.0	2,134.9	2,145.6	2,143.5	9.5	4.0	169.92	78.6	32.6	494.7	486.8	7.94	62.334		
2,300.0	2,230.3	2,241.5	2,239.3	10.1	4.2	169.93	83.5	31.4	523.0	514.7	8.32	62.877		
2,400.0	2,325.7	2,337.4	2,335.1	10.7	4.3	169.94	88.5	30.1	551.2	542.5	8.70	63.372		
2,500.0	2,421.1	2,433.4	2,430.9	11.2	4.5	169.95	93.4	28.9	579.4	570.4	9.08	63.824		
2,600.0	2,516.6	2,529.3	2,526.7	11.8	4.7	169.96	98.3	27.6	607.7	598.2	9.46	64.239		
2,700.0	2,612.0	2,625.2	2,622.5	12.4	4.9	169.97	103.3	26.4	635.9	626.1	9.84	64.622		
2,800.0	2,707.4	2,721.2	2,718.3	12.9	5.1	169.97	108.2	25.2	664.1	653.9	10.22	64.975		
2,900.0	2,802.8	2,817.1	2,814.1	13.5	5.3	169.98	113.1	23.9	692.4	681.8	10.60	65.303		
3,000.0	2,898.2	2,913.0	2,909.9	14.1	5.5	169.99	118.1	22.7	720.6	709.6	10.98	65.607		
3,100.0	2,993.6	3,009.0	3,005.7	14.7	5.7	169.99	123.0	21.4	748.8	737.5	11.36	65.891		
3,200.0	3,089.0	3,104.9	3,101.5	15.2	5.9	170.00	127.9	20.2	777.1	765.3	11.75	66.156		
3,300.0	3,184.5	3,200.8	3,197.2	15.8	6.0	170.00	132.8	19.0	805.3	793.2	12.13	66.404		
3,400.0	3,279.9	3,296.8	3,293.0	16.4	6.2	170.01	137.8	17.7	833.5	821.0	12.51	66.636		
3,500.0	3,375.3	3,392.7	3,388.8	16.9	6.4	170.01	142.7	16.5	861.8	848.9	12.89	66.855		
3,600.0	3,470.7	3,488.6	3,484.6	17.5	6.6	170.02	147.6	15.2	890.0	876.7	13.27	67.061		
3,700.0	3,566.1	3,584.6	3,580.4	18.1	6.8	170.02	152.6	14.0	918.2	904.6	13.65	67.255		
3,800.0	3,661.5	3,680.5	3,676.2	18.7	7.0	170.02	157.5	12.7	946.4	932.4	14.03	67.438		
3,900.0	3,757.0	3,776.4	3,772.0	19.2	7.2	170.03	162.4	11.5	974.7	960.3	14.42	67.612		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2I-32H-C264 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	3.0	3.0	0.0	0.0	90.71	-0.7	60.1	60.1					
100.0	100.0	103.0	103.0	0.1	0.1	90.71	-0.7	60.1	60.1	59.9	0.25	240.995		
200.0	200.0	203.0	203.0	0.3	0.3	90.71	-0.7	60.1	60.1	59.5	0.60	100.473 CC, ES		
300.0	300.0	303.0	303.0	0.5	0.5	170.89	-0.7	60.1	61.9	60.9	0.95	65.302		
400.0	399.8	402.8	402.8	0.7	0.7	171.58	-0.7	60.1	67.0	65.7	1.30	51.754		
500.0	499.5	501.8	501.8	0.9	0.8	171.91	0.1	60.6	76.1	74.4	1.64	46.348		
600.0	598.7	600.0	600.0	1.2	1.0	171.47	2.3	61.8	89.3	87.4	1.99	44.940 SF		
700.0	697.5	698.0	697.8	1.5	1.2	170.60	6.0	63.9	106.8	104.5	2.34	45.657		
800.0	795.6	795.3	795.0	1.9	1.4	169.67	10.9	66.6	128.3	125.6	2.69	47.617		
900.0	893.1	892.1	891.6	2.3	1.6	169.17	15.9	69.4	153.2	150.2	3.05	50.211		
1,000.0	989.6	988.0	987.4	2.8	1.7	168.99	20.8	72.1	181.4	178.0	3.41	53.242		
1,100.0	1,085.3	1,083.0	1,082.2	3.3	1.9	169.04	25.6	74.8	212.8	209.0	3.77	56.485		
1,200.0	1,180.7	1,177.7	1,176.7	3.9	2.1	169.17	30.5	77.5	244.9	240.8	4.14	59.174		
1,300.0	1,276.1	1,272.4	1,271.2	4.4	2.3	169.28	35.3	80.1	277.1	272.6	4.51	61.406		
1,400.0	1,371.6	1,367.0	1,365.8	5.0	2.5	169.36	40.2	82.8	309.3	304.4	4.89	63.286		
1,500.0	1,467.0	1,461.7	1,460.3	5.6	2.7	169.43	45.0	85.5	341.4	336.2	5.26	64.892		
1,600.0	1,562.4	1,556.4	1,554.8	6.1	2.9	169.49	49.9	88.2	373.6	368.0	5.64	66.278		
1,700.0	1,657.8	1,651.1	1,649.3	6.7	3.1	169.54	54.7	90.9	405.8	399.8	6.01	67.487		
1,800.0	1,753.2	1,745.8	1,743.9	7.3	3.2	169.58	59.6	93.6	438.0	431.6	6.39	68.550		
1,900.0	1,848.6	1,840.5	1,838.4	7.8	3.4	169.61	64.4	96.3	470.1	463.4	6.77	69.493		
2,000.0	1,944.1	1,935.1	1,932.9	8.4	3.6	169.64	69.3	99.0	502.3	495.2	7.14	70.334		
2,100.0	2,039.5	2,029.8	2,027.4	9.0	3.8	169.67	74.1	101.6	534.5	527.0	7.52	71.088		
2,200.0	2,134.9	2,124.5	2,121.9	9.5	4.0	169.69	79.0	104.3	566.6	558.7	7.90	71.770		
2,300.0	2,230.3	2,219.2	2,216.5	10.1	4.2	169.71	83.8	107.0	598.8	590.5	8.27	72.388		
2,400.0	2,325.7	2,313.9	2,311.0	10.7	4.4	169.73	88.7	109.7	631.0	622.3	8.65	72.951		
2,500.0	2,421.1	2,408.6	2,405.5	11.2	4.6	169.75	93.5	112.4	663.2	654.1	9.03	73.466		
2,600.0	2,516.6	2,503.2	2,500.0	11.8	4.8	169.77	98.4	115.1	695.3	685.9	9.40	73.939		
2,700.0	2,612.0	2,597.9	2,594.5	12.4	5.0	169.78	103.2	117.8	727.5	717.7	9.78	74.375		
2,800.0	2,707.4	2,692.6	2,689.1	12.9	5.2	169.79	108.1	120.5	759.7	749.5	10.16	74.778		
2,900.0	2,802.8	2,787.3	2,783.6	13.5	5.3	169.81	112.9	123.2	791.8	781.3	10.54	75.151		
3,000.0	2,898.2	2,882.0	2,878.1	14.1	5.5	169.82	117.7	125.8	824.0	813.1	10.91	75.499		
3,100.0	2,993.6	2,976.7	2,972.6	14.7	5.7	169.83	122.6	128.5	856.2	844.9	11.29	75.823		
3,200.0	3,089.0	3,071.3	3,067.2	15.2	5.9	169.84	127.4	131.2	888.4	876.7	11.67	76.125		
3,300.0	3,184.5	3,166.0	3,161.7	15.8	6.1	169.85	132.3	133.9	920.5	908.5	12.05	76.408		
3,400.0	3,279.9	3,260.7	3,256.2	16.4	6.3	169.85	137.1	136.6	952.7	940.3	12.43	76.674		
3,500.0	3,375.3	3,355.4	3,350.7	16.9	6.5	169.86	142.0	139.3	984.9	972.1	12.80	76.924		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2J-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	3.0	3.0	0.0	0.0	90.64	-0.8	67.7	67.7					
100.0	100.0	103.0	103.0	0.1	0.1	90.64	-0.8	67.7	67.7	67.5	0.25	271.256		
200.0	200.0	203.0	203.0	0.3	0.3	90.64	-0.8	67.7	67.7	67.1	0.60	113.089 CC, ES		
300.0	300.0	303.0	303.0	0.5	0.5	170.80	-0.8	67.7	69.4	68.5	0.95	73.273		
400.0	399.8	402.3	402.3	0.7	0.6	171.31	-0.6	67.9	74.8	73.5	1.29	57.768		
500.0	499.5	500.7	500.7	0.9	0.8	171.44	0.4	69.3	84.8	83.2	1.64	51.708		
600.0	598.7	598.4	598.3	1.2	1.0	171.21	2.4	72.0	99.6	97.6	1.98	50.166 SF		
700.0	697.5	695.0	694.8	1.5	1.2	170.78	5.4	76.1	119.1	116.7	2.33	51.097		
800.0	795.6	790.3	789.8	1.9	1.4	170.27	9.3	81.3	143.2	140.6	2.68	53.504		
900.0	893.1	884.6	883.9	2.3	1.6	169.76	14.0	87.7	171.9	168.9	3.03	56.825		
1,000.0	989.6	979.3	978.1	2.8	1.8	169.46	18.9	94.4	204.2	200.9	3.38	60.483		
1,100.0	1,085.3	1,072.8	1,071.3	3.3	2.0	169.39	23.8	101.1	239.6	235.9	3.73	64.224		
1,200.0	1,180.7	1,166.0	1,164.1	3.9	2.2	169.45	28.7	107.7	275.8	271.7	4.10	67.285		
1,300.0	1,276.1	1,259.2	1,257.0	4.4	2.4	169.49	33.6	114.4	312.0	307.5	4.47	69.821		
1,400.0	1,371.6	1,352.5	1,349.9	5.0	2.6	169.53	38.4	121.0	348.2	343.3	4.84	71.955		
1,500.0	1,467.0	1,445.7	1,442.7	5.6	2.8	169.56	43.3	127.6	384.4	379.2	5.21	73.774		
1,600.0	1,562.4	1,538.9	1,535.6	6.1	3.0	169.58	48.2	134.2	420.6	415.0	5.58	75.343		
1,700.0	1,657.8	1,632.1	1,628.4	6.7	3.3	169.60	53.1	140.9	456.7	450.8	5.95	76.709		
1,800.0	1,753.2	1,725.3	1,721.3	7.3	3.5	169.62	57.9	147.5	492.9	486.6	6.33	77.909		
1,900.0	1,848.6	1,818.6	1,814.2	7.8	3.7	169.63	62.8	154.1	529.1	522.4	6.70	78.971		
2,000.0	1,944.1	1,911.8	1,907.0	8.4	3.9	169.64	67.7	160.7	565.3	558.2	7.07	79.918		
2,100.0	2,039.5	2,005.0	1,999.9	9.0	4.1	169.65	72.6	167.4	601.5	594.1	7.45	80.767		
2,200.0	2,134.9	2,098.2	2,092.7	9.5	4.3	169.66	77.4	174.0	637.7	629.9	7.82	81.533		
2,300.0	2,230.3	2,191.5	2,185.6	10.1	4.5	169.67	82.3	180.6	673.9	665.7	8.20	82.227		
2,400.0	2,325.7	2,284.7	2,278.4	10.7	4.8	169.68	87.2	187.3	710.1	701.5	8.57	82.859		
2,500.0	2,421.1	2,377.9	2,371.3	11.2	5.0	169.69	92.1	193.9	746.3	737.3	8.94	83.436		
2,600.0	2,516.6	2,471.1	2,464.2	11.8	5.2	169.69	96.9	200.5	782.4	773.1	9.32	83.966		
2,700.0	2,612.0	2,564.3	2,557.0	12.4	5.4	169.70	101.8	207.1	818.6	808.9	9.69	84.454		
2,800.0	2,707.4	2,657.6	2,649.9	12.9	5.6	169.71	106.7	213.8	854.8	844.8	10.07	84.905		
2,900.0	2,802.8	2,750.8	2,742.7	13.5	5.8	169.71	111.6	220.4	891.0	880.6	10.44	85.323		
3,000.0	2,898.2	2,844.0	2,835.6	14.1	6.0	169.71	116.4	227.0	927.2	916.4	10.82	85.712		
3,100.0	2,993.6	2,937.2	2,928.5	14.7	6.3	169.72	121.3	233.6	963.4	952.2	11.19	86.073		
3,200.0	3,089.0	3,030.5	3,021.3	15.2	6.5	169.72	126.2	240.3	999.6	988.0	11.57	86.411		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2K-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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	3.0	3.0	0.0	0.0	90.59	-0.8	75.0	75.0					
100.0	100.0	103.0	103.0	0.1	0.1	90.59	-0.8	75.0	75.0	74.7	0.25	300.396		
200.0	200.0	203.0	203.0	0.3	0.3	90.59	-0.8	75.0	75.0	74.4	0.60	125.238 CC, ES		
300.0	300.0	302.9	302.9	0.5	0.5	170.72	-0.8	75.0	76.7	75.7	0.95	80.955		
400.0	399.8	401.5	401.5	0.7	0.6	171.01	-0.4	75.8	82.7	81.4	1.29	63.930		
500.0	499.5	500.0	500.0	0.9	0.8	171.11	0.7	78.1	93.6	92.0	1.64	57.138		
600.0	598.7	596.7	596.6	1.2	1.0	171.05	2.5	81.9	109.5	107.6	1.98	55.272 SF		
700.0	697.5	692.7	692.4	1.5	1.2	170.90	4.9	87.2	130.3	128.0	2.32	56.067		
800.0	795.6	787.3	786.7	1.9	1.4	170.70	7.9	93.8	155.9	153.2	2.67	58.488		
900.0	893.1	880.1	879.1	2.3	1.6	170.48	11.5	101.6	186.2	183.2	3.01	61.955		
1,000.0	989.6	970.9	969.3	2.8	1.8	170.25	15.7	110.6	221.1	217.8	3.34	66.123		
1,100.0	1,085.3	1,060.3	1,058.0	3.3	2.1	170.06	20.3	120.7	260.4	256.7	3.69	70.616		
1,200.0	1,180.7	1,151.7	1,148.7	3.9	2.3	169.98	25.3	131.4	300.8	296.8	4.05	74.277		
1,300.0	1,276.1	1,243.2	1,239.4	4.4	2.5	169.93	30.2	142.1	341.3	336.8	4.41	77.308		
1,400.0	1,371.6	1,334.6	1,330.1	5.0	2.8	169.88	35.1	152.8	381.7	376.9	4.78	79.855		
1,500.0	1,467.0	1,426.1	1,420.8	5.6	3.0	169.85	40.1	163.4	422.1	417.0	5.15	82.022		
1,600.0	1,562.4	1,517.6	1,511.5	6.1	3.3	169.82	45.0	174.1	462.6	457.1	5.51	83.888		
1,700.0	1,657.8	1,609.0	1,602.2	6.7	3.5	169.79	50.0	184.8	503.0	497.1	5.88	85.511		
1,800.0	1,753.2	1,700.5	1,692.9	7.3	3.8	169.77	54.9	195.5	543.5	537.2	6.25	86.935		
1,900.0	1,848.6	1,791.9	1,783.6	7.8	4.1	169.76	59.8	206.2	583.9	577.3	6.62	88.193		
2,000.0	1,944.1	1,883.4	1,874.3	8.4	4.3	169.74	64.8	216.9	624.4	617.4	6.99	89.314		
2,100.0	2,039.5	1,974.8	1,965.0	9.0	4.6	169.73	69.7	227.6	664.8	657.4	7.36	90.317		
2,200.0	2,134.9	2,066.3	2,055.7	9.5	4.8	169.71	74.7	238.3	705.2	697.5	7.73	91.222		
2,300.0	2,230.3	2,157.8	2,146.4	10.1	5.1	169.70	79.6	249.0	745.7	737.6	8.10	92.040		
2,400.0	2,325.7	2,249.2	2,237.1	10.7	5.3	169.69	84.5	259.7	786.1	777.6	8.47	92.785		
2,500.0	2,421.1	2,340.7	2,327.8	11.2	5.6	169.68	89.5	270.4	826.6	817.7	8.84	93.465		
2,600.0	2,516.6	2,432.1	2,418.5	11.8	5.9	169.68	94.4	281.1	867.0	857.8	9.21	94.089		
2,700.0	2,612.0	2,523.6	2,509.2	12.4	6.1	169.67	99.3	291.8	907.4	897.9	9.59	94.663		
2,800.0	2,707.4	2,615.0	2,599.9	12.9	6.4	169.66	104.3	302.5	947.9	937.9	9.96	95.193		
2,900.0	2,802.8	2,706.5	2,690.6	13.5	6.6	169.66	109.2	313.2	988.3	978.0	10.33	95.683		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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) - Newman 2L-32H-C264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	3.0	3.0	0.0	0.0	90.76	-1.1	82.5	82.5					
100.0	100.0	103.0	103.0	0.1	0.1	90.76	-1.1	82.5	82.5	82.3	0.25	330.671		
200.0	200.0	203.0	203.0	0.3	0.3	90.76	-1.1	82.5	82.5	81.9	0.60	137.860 CC, ES		
300.0	300.0	302.3	302.3	0.5	0.5	170.82	-1.0	82.7	84.5	83.5	0.95	89.284		
400.0	399.8	400.0	400.0	0.7	0.6	170.95	-0.5	84.4	91.3	90.0	1.29	70.747		
500.0	499.5	498.3	498.2	0.9	0.8	171.02	0.6	87.6	103.2	101.5	1.64	63.069		
600.0	598.7	595.1	594.9	1.2	1.0	171.04	2.2	92.4	120.0	118.1	1.98	60.673 SF		
700.0	697.5	690.7	690.2	1.5	1.2	171.02	4.3	98.6	141.8	139.5	2.32	61.166		
800.0	795.6	784.6	783.9	1.9	1.4	170.97	6.9	106.1	168.5	165.8	2.66	63.418		
900.0	893.1	876.8	875.5	2.3	1.6	170.89	9.8	115.0	199.9	196.9	2.99	66.815		
1,000.0	989.6	966.8	965.0	2.8	1.9	170.80	13.2	125.0	235.9	232.6	3.32	70.993		
1,100.0	1,085.3	1,054.6	1,052.0	3.3	2.1	170.73	16.9	136.0	276.4	272.7	3.66	75.569		
1,200.0	1,180.7	1,140.9	1,137.3	3.9	2.4	170.69	21.0	148.0	318.9	314.9	4.01	79.621		
1,300.0	1,276.1	1,226.0	1,221.3	4.4	2.6	170.59	25.4	161.1	362.7	358.4	4.36	83.293		
1,400.0	1,371.6	1,313.1	1,307.0	5.0	2.9	170.44	30.2	175.5	407.6	402.9	4.71	86.527		
1,500.0	1,467.0	1,402.4	1,394.9	5.6	3.2	170.32	35.2	190.4	452.6	447.5	5.07	89.236		
1,600.0	1,562.4	1,491.7	1,482.8	6.1	3.5	170.22	40.2	205.3	497.6	492.2	5.43	91.565		
1,700.0	1,657.8	1,581.0	1,570.8	6.7	3.8	170.13	45.3	220.2	542.6	536.8	5.80	93.589		
1,800.0	1,753.2	1,670.3	1,658.7	7.3	4.1	170.06	50.3	235.1	587.6	581.4	6.16	95.363		
1,900.0	1,848.6	1,759.6	1,746.6	7.8	4.4	169.99	55.3	250.0	632.6	626.0	6.53	96.930		
2,000.0	1,944.1	1,848.9	1,834.5	8.4	4.8	169.94	60.3	264.9	677.6	670.7	6.89	98.324		
2,100.0	2,039.5	1,938.2	1,922.4	9.0	5.1	169.89	65.3	279.8	722.6	715.3	7.26	99.572		
2,200.0	2,134.9	2,027.5	2,010.3	9.5	5.4	169.85	70.3	294.7	767.6	759.9	7.62	100.696		
2,300.0	2,230.3	2,116.8	2,098.2	10.1	5.7	169.81	75.3	309.6	812.6	804.6	7.99	101.712		
2,400.0	2,325.7	2,206.1	2,186.1	10.7	6.0	169.78	80.4	324.5	857.5	849.2	8.36	102.636		
2,500.0	2,421.1	2,295.4	2,274.0	11.2	6.3	169.75	85.4	339.4	902.5	893.8	8.72	103.479		
2,600.0	2,516.6	2,384.7	2,361.9	11.8	6.6	169.72	90.4	354.3	947.5	938.5	9.09	104.251		
2,700.0	2,612.0	2,474.0	2,449.8	12.4	7.0	169.70	95.4	369.2	992.5	983.1	9.46	104.962		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Newman 2A-32H-C264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R64W (Newman)	<b>MD Reference:</b>	WELL @ 4982.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Newman 2A-32H-C264	<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 WELL @ 4982.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

