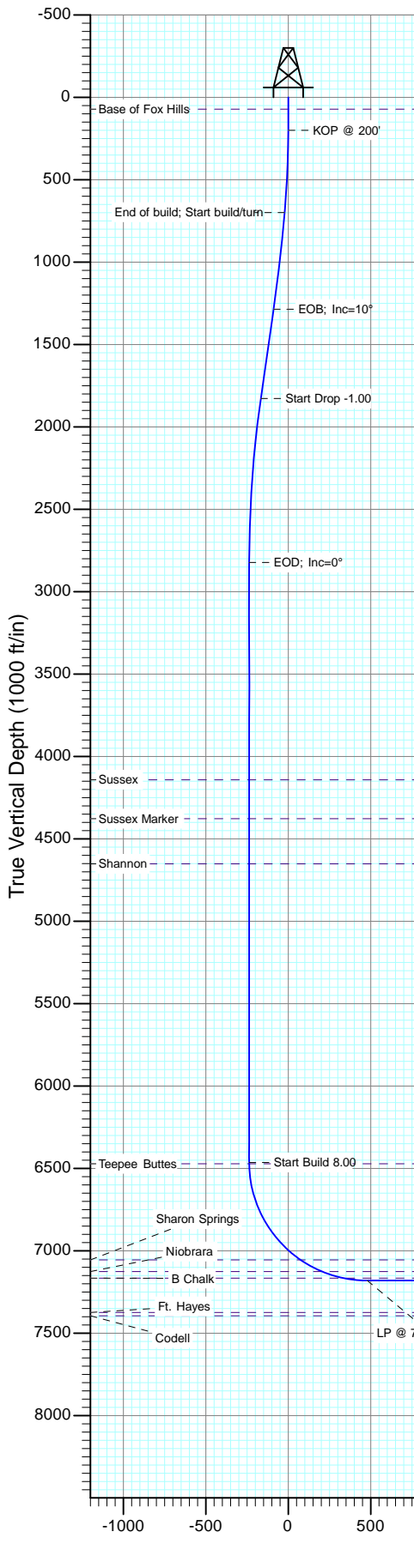
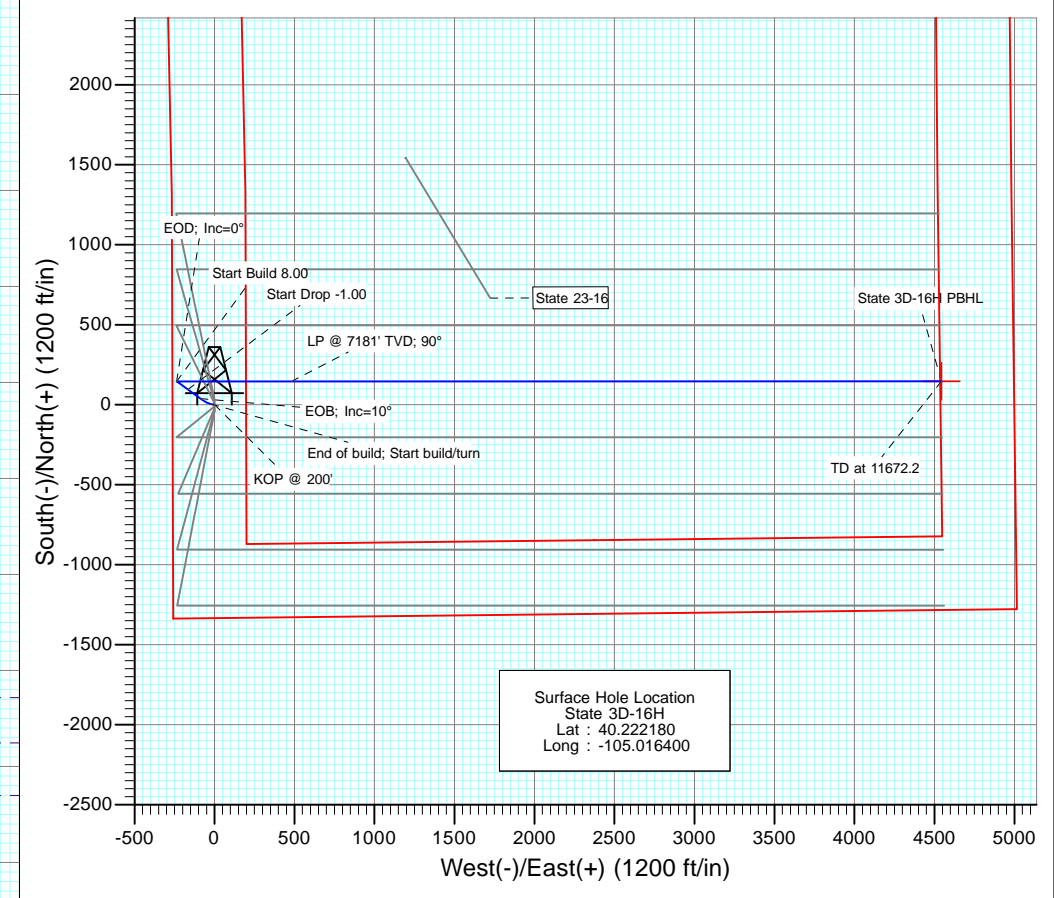




Project: DJ Wattenberg  
 Site: S16-T3N-R68W (State)  
 Well: State 3D-16H  
 Wellbore: Hz  
 Design: Plan #1



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	700.0	5.00	280.00	699.4	3.8	-21.5	1.00	280.00	-21.5	
4	1292.2	10.00	306.00	1286.5	38.5	-88.5	1.00	47.54	-88.5	
5	1842.2	10.00	306.00	1828.1	94.7	-165.8	0.00	0.00	-165.8	
6	2842.2	0.00	0.00	2823.1	145.8	-236.2	1.00	180.00	-236.2	
7	6484.0	0.00	0.00	6464.8	145.8	-236.2	0.00	0.00	-236.2	
8	7609.0	90.00	90.00	7181.0	145.9	480.0	8.00	90.00	480.0	
9	11672.2	90.00	90.00	7181.0	146.1	4543.2	0.00	0.00	4543.2	State 3D-16H PBHL



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
State 3D-16H PBHL	146.1	4543.2	1324324.06	3139588.85	40.222580	-105.000130

**M** Azimuths to True North  
 Magnetic North: 8.76°  
 Magnetic Field  
 Strength: 52835.8snT  
 Dip Angle: 66.81°  
 Date: 2/5/2013  
 Model: IGRF2010

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
72.0	72.0	Base of Fox Hills
4142.0	4161.2	Sussex
4378.0	4397.2	Sussex Marker
4652.0	4671.2	Shannon
6472.0	6491.2	Teepee Buttes
7055.0	7177.6	Sharon Springs
7126.0	7326.5	Niobrara
7166.0	7462.1	B Chalk

Plan #1  
 State 3D-16H  
 13xxx; LR  
 WELL @ 5072.0ft (Original Well Elev)  
 Ground Elevation @ 5059.0  
 North American Datum 1983  
 Well State 3D-16H, True North

Vertical Section at 90.00° (1000 ft/in)

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site:</b>	S16-T3N-R68W (State)	<b>North Reference:</b>	True
<b>Well:</b>	State 3D-16H	<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		

<b>Site</b>	S16-T3N-R68W (State)				
<b>Site Position:</b>		<b>Northing:</b>	1,326,575.12 ft	<b>Latitude:</b>	40.228760
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,139,542.66 ft	<b>Longitude:</b>	-105.000250
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.32 °

<b>Well</b>	State 3D-16H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,324,153.15 ft	<b>Latitude:</b>	40.222180
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,135,046.49 ft	<b>Longitude:</b>	-105.016400
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,059.0 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</b>
			(°)	(°)	(nT)
	IGRF2010	2/5/2013	8.76	66.81	52,836

<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	90.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.0	5.00	280.00	699.4	3.8	-21.5	1.00	1.00	0.00	280.00	
1,292.2	10.00	306.00	1,286.5	38.5	-88.5	1.00	0.84	4.39	47.54	
1,842.2	10.00	306.00	1,828.1	94.7	-165.8	0.00	0.00	0.00	0.00	
2,842.2	0.00	0.00	2,823.1	145.8	-236.2	1.00	-1.00	0.00	180.00	
6,484.0	0.00	0.00	6,464.8	145.8	-236.2	0.00	0.00	0.00	0.00	
7,609.0	90.00	90.00	7,181.0	145.9	480.0	8.00	8.00	0.00	90.00	
11,672.2	90.00	90.00	7,181.0	146.1	4,543.2	0.00	0.00	0.00	0.00	State 3D-16H PBHL

Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site:</b>	S16-T3N-R68W (State)	<b>North Reference:</b>	True
<b>Well:</b>	State 3D-16H	<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	
72.0	0.00	0.00	72.0	0.0	0.0	0.0	0.00	0.00	Base of Fox Hills
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	1.00	280.00	300.0	0.2	-0.9	-0.9	1.00	1.00	
400.0	2.00	280.00	400.0	0.6	-3.4	-3.4	1.00	1.00	
500.0	3.00	280.00	499.9	1.4	-7.7	-7.7	1.00	1.00	
600.0	4.00	280.00	599.7	2.4	-13.7	-13.7	1.00	1.00	
700.0	5.00	280.00	699.4	3.8	-21.5	-21.5	1.00	1.00	End of build; Start build/turn
800.0	5.72	287.42	798.9	6.0	-30.5	-30.5	1.00	0.72	
900.0	6.52	293.11	898.4	9.8	-40.5	-40.5	1.00	0.80	
1,000.0	7.36	297.53	997.6	14.9	-51.4	-51.4	1.00	0.85	
1,100.0	8.24	301.03	1,096.7	21.6	-63.2	-63.2	1.00	0.88	
1,200.0	9.15	303.85	1,195.5	29.7	-76.0	-76.0	1.00	0.90	
1,292.2	10.00	306.00	1,286.5	38.5	-88.5	-88.5	1.00	0.92	EOB; Inc=10°
1,300.0	10.00	306.00	1,294.1	39.3	-89.6	-89.6	0.00	0.00	
1,400.0	10.00	306.00	1,392.6	49.5	-103.7	-103.7	0.00	0.00	
1,500.0	10.00	306.00	1,491.1	59.7	-117.7	-117.7	0.00	0.00	
1,600.0	10.00	306.00	1,589.6	69.9	-131.8	-131.8	0.00	0.00	
1,700.0	10.00	306.00	1,688.1	80.1	-145.8	-145.8	0.00	0.00	
1,800.0	10.00	306.00	1,786.5	90.3	-159.9	-159.9	0.00	0.00	
1,842.2	10.00	306.00	1,828.1	94.7	-165.8	-165.8	0.00	0.00	Start Drop -1.00
1,900.0	9.42	306.00	1,885.1	100.4	-173.7	-173.7	1.00	-1.00	
2,000.0	8.42	306.00	1,983.9	109.5	-186.2	-186.2	1.00	-1.00	
2,100.0	7.42	306.00	2,082.9	117.6	-197.4	-197.4	1.00	-1.00	
2,200.0	6.42	306.00	2,182.2	124.7	-207.1	-207.1	1.00	-1.00	
2,300.0	5.42	306.00	2,281.6	130.8	-215.5	-215.5	1.00	-1.00	
2,400.0	4.42	306.00	2,381.3	135.8	-222.4	-222.4	1.00	-1.00	
2,500.0	3.42	306.00	2,481.0	139.8	-228.0	-228.0	1.00	-1.00	
2,600.0	2.42	306.00	2,580.9	142.8	-232.1	-232.1	1.00	-1.00	
2,700.0	1.42	306.00	2,680.9	144.8	-234.8	-234.8	1.00	-1.00	
2,800.0	0.42	306.00	2,780.8	145.7	-236.1	-236.1	1.00	-1.00	
2,842.2	0.00	0.00	2,823.1	145.8	-236.2	-236.2	1.00	-1.00	EOD; Inc=0°
2,900.0	0.00	0.00	2,880.8	145.8	-236.2	-236.2	0.00	0.00	
3,000.0	0.00	0.00	2,980.8	145.8	-236.2	-236.2	0.00	0.00	
3,100.0	0.00	0.00	3,080.8	145.8	-236.2	-236.2	0.00	0.00	
3,200.0	0.00	0.00	3,180.8	145.8	-236.2	-236.2	0.00	0.00	
3,300.0	0.00	0.00	3,280.8	145.8	-236.2	-236.2	0.00	0.00	
3,400.0	0.00	0.00	3,380.8	145.8	-236.2	-236.2	0.00	0.00	
3,500.0	0.00	0.00	3,480.8	145.8	-236.2	-236.2	0.00	0.00	
3,600.0	0.00	0.00	3,580.8	145.8	-236.2	-236.2	0.00	0.00	
3,700.0	0.00	0.00	3,680.8	145.8	-236.2	-236.2	0.00	0.00	
3,800.0	0.00	0.00	3,780.8	145.8	-236.2	-236.2	0.00	0.00	
3,900.0	0.00	0.00	3,880.8	145.8	-236.2	-236.2	0.00	0.00	
4,000.0	0.00	0.00	3,980.8	145.8	-236.2	-236.2	0.00	0.00	
4,100.0	0.00	0.00	4,080.8	145.8	-236.2	-236.2	0.00	0.00	
4,161.2	0.00	0.00	4,142.0	145.8	-236.2	-236.2	0.00	0.00	Sussex
4,200.0	0.00	0.00	4,180.8	145.8	-236.2	-236.2	0.00	0.00	
4,300.0	0.00	0.00	4,280.8	145.8	-236.2	-236.2	0.00	0.00	
4,397.2	0.00	0.00	4,378.0	145.8	-236.2	-236.2	0.00	0.00	Sussex Marker
4,400.0	0.00	0.00	4,380.8	145.8	-236.2	-236.2	0.00	0.00	
4,500.0	0.00	0.00	4,480.8	145.8	-236.2	-236.2	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site:</b>	S16-T3N-R68W (State)	<b>North Reference:</b>	True
<b>Well:</b>	State 3D-16H	<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
4,600.0	0.00	0.00	4,580.8	145.8	-236.2	-236.2	0.00	0.00	
4,671.2	0.00	0.00	4,652.0	145.8	-236.2	-236.2	0.00	0.00	Shannon
4,700.0	0.00	0.00	4,680.8	145.8	-236.2	-236.2	0.00	0.00	
4,800.0	0.00	0.00	4,780.8	145.8	-236.2	-236.2	0.00	0.00	
4,900.0	0.00	0.00	4,880.8	145.8	-236.2	-236.2	0.00	0.00	
5,000.0	0.00	0.00	4,980.8	145.8	-236.2	-236.2	0.00	0.00	
5,100.0	0.00	0.00	5,080.8	145.8	-236.2	-236.2	0.00	0.00	
5,200.0	0.00	0.00	5,180.8	145.8	-236.2	-236.2	0.00	0.00	
5,300.0	0.00	0.00	5,280.8	145.8	-236.2	-236.2	0.00	0.00	
5,400.0	0.00	0.00	5,380.8	145.8	-236.2	-236.2	0.00	0.00	
5,500.0	0.00	0.00	5,480.8	145.8	-236.2	-236.2	0.00	0.00	
5,600.0	0.00	0.00	5,580.8	145.8	-236.2	-236.2	0.00	0.00	
5,700.0	0.00	0.00	5,680.8	145.8	-236.2	-236.2	0.00	0.00	
5,800.0	0.00	0.00	5,780.8	145.8	-236.2	-236.2	0.00	0.00	
5,900.0	0.00	0.00	5,880.8	145.8	-236.2	-236.2	0.00	0.00	
6,000.0	0.00	0.00	5,980.8	145.8	-236.2	-236.2	0.00	0.00	
6,100.0	0.00	0.00	6,080.8	145.8	-236.2	-236.2	0.00	0.00	
6,200.0	0.00	0.00	6,180.8	145.8	-236.2	-236.2	0.00	0.00	
6,300.0	0.00	0.00	6,280.8	145.8	-236.2	-236.2	0.00	0.00	
6,400.0	0.00	0.00	6,380.8	145.8	-236.2	-236.2	0.00	0.00	
6,484.0	0.00	0.00	6,464.8	145.8	-236.2	-236.2	0.00	0.00	Start Build 8.00
6,491.2	0.58	90.00	6,472.0	145.8	-236.2	-236.2	8.00	8.00	Teepee Buttes
6,500.0	1.28	90.00	6,480.8	145.8	-236.1	-236.1	8.00	8.00	
6,600.0	9.28	90.00	6,580.3	145.8	-226.9	-226.9	8.00	8.00	
6,700.0	17.28	90.00	6,677.6	145.8	-203.9	-203.9	8.00	8.00	
6,800.0	25.28	90.00	6,770.7	145.8	-167.6	-167.6	8.00	8.00	
6,900.0	33.28	90.00	6,857.8	145.8	-118.8	-118.8	8.00	8.00	
7,000.0	41.28	90.00	6,937.3	145.8	-58.2	-58.2	8.00	8.00	
7,100.0	49.28	90.00	7,007.6	145.8	12.8	12.8	8.00	8.00	
7,177.6	55.49	90.00	7,055.0	145.8	74.2	74.2	8.00	8.00	Sharon Springs
7,200.0	57.28	90.00	7,067.4	145.8	92.9	92.9	8.00	8.00	
7,300.0	65.28	90.00	7,115.4	145.9	180.5	180.5	8.00	8.00	
7,326.5	67.40	90.00	7,126.0	145.9	204.7	204.7	8.00	8.00	Niobara
7,400.0	73.28	90.00	7,150.7	145.9	274.0	274.0	8.00	8.00	
7,462.1	78.25	90.00	7,166.0	145.9	334.2	334.2	8.00	8.00	B Chalk
7,500.0	81.28	90.00	7,172.7	145.9	371.4	371.4	8.00	8.00	
7,600.0	89.28	90.00	7,180.9	145.9	471.0	471.0	8.00	8.00	
7,609.0	90.00	90.00	7,181.0	145.9	480.0	480.0	8.00	8.00	LP @ 7181' TVD; 90°
7,700.0	90.00	90.00	7,181.0	145.9	571.0	571.0	0.00	0.00	
7,800.0	90.00	90.00	7,181.0	145.9	671.0	671.0	0.00	0.00	
7,900.0	90.00	90.00	7,181.0	145.9	771.0	771.0	0.00	0.00	
8,000.0	90.00	90.00	7,181.0	145.9	871.0	871.0	0.00	0.00	
8,100.0	90.00	90.00	7,181.0	145.9	971.0	971.0	0.00	0.00	
8,200.0	90.00	90.00	7,181.0	145.9	1,071.0	1,071.0	0.00	0.00	
8,300.0	90.00	90.00	7,181.0	145.9	1,171.0	1,171.0	0.00	0.00	
8,400.0	90.00	90.00	7,181.0	145.9	1,271.0	1,271.0	0.00	0.00	
8,500.0	90.00	90.00	7,181.0	145.9	1,371.0	1,371.0	0.00	0.00	
8,600.0	90.00	90.00	7,181.0	145.9	1,471.0	1,471.0	0.00	0.00	
8,700.0	90.00	90.00	7,181.0	145.9	1,571.0	1,571.0	0.00	0.00	
8,800.0	90.00	90.00	7,181.0	145.9	1,671.0	1,671.0	0.00	0.00	
8,900.0	90.00	90.00	7,181.0	146.0	1,771.0	1,771.0	0.00	0.00	
9,000.0	90.00	90.00	7,181.0	146.0	1,871.0	1,871.0	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site:</b>	S16-T3N-R68W (State)	<b>North Reference:</b>	True
<b>Well:</b>	State 3D-16H	<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
9,100.0	90.00	90.00	7,181.0	146.0	1,971.0	1,971.0	0.00	0.00	
9,200.0	90.00	90.00	7,181.0	146.0	2,071.0	2,071.0	0.00	0.00	
9,300.0	90.00	90.00	7,181.0	146.0	2,171.0	2,171.0	0.00	0.00	
9,400.0	90.00	90.00	7,181.0	146.0	2,271.0	2,271.0	0.00	0.00	
9,500.0	90.00	90.00	7,181.0	146.0	2,371.0	2,371.0	0.00	0.00	
9,600.0	90.00	90.00	7,181.0	146.0	2,471.0	2,471.0	0.00	0.00	
9,700.0	90.00	90.00	7,181.0	146.0	2,571.0	2,571.0	0.00	0.00	
9,800.0	90.00	90.00	7,181.0	146.0	2,671.0	2,671.0	0.00	0.00	
9,900.0	90.00	90.00	7,181.0	146.0	2,771.0	2,771.0	0.00	0.00	
10,000.0	90.00	90.00	7,181.0	146.0	2,871.0	2,871.0	0.00	0.00	
10,100.0	90.00	90.00	7,181.0	146.0	2,971.0	2,971.0	0.00	0.00	
10,200.0	90.00	90.00	7,181.0	146.0	3,071.0	3,071.0	0.00	0.00	
10,300.0	90.00	90.00	7,181.0	146.0	3,171.0	3,171.0	0.00	0.00	
10,400.0	90.00	90.00	7,181.0	146.1	3,271.0	3,271.0	0.00	0.00	
10,500.0	90.00	90.00	7,181.0	146.1	3,371.0	3,371.0	0.00	0.00	
10,600.0	90.00	90.00	7,181.0	146.1	3,471.0	3,471.0	0.00	0.00	
10,700.0	90.00	90.00	7,181.0	146.1	3,571.0	3,571.0	0.00	0.00	
10,800.0	90.00	90.00	7,181.0	146.1	3,671.0	3,671.0	0.00	0.00	
10,900.0	90.00	90.00	7,181.0	146.1	3,771.0	3,771.0	0.00	0.00	
11,000.0	90.00	90.00	7,181.0	146.1	3,871.0	3,871.0	0.00	0.00	
11,100.0	90.00	90.00	7,181.0	146.1	3,971.0	3,971.0	0.00	0.00	
11,200.0	90.00	90.00	7,181.0	146.1	4,071.0	4,071.0	0.00	0.00	
11,300.0	90.00	90.00	7,181.0	146.1	4,171.0	4,171.0	0.00	0.00	
11,400.0	90.00	90.00	7,181.0	146.1	4,271.0	4,271.0	0.00	0.00	
11,500.0	90.00	90.00	7,181.0	146.1	4,371.0	4,371.0	0.00	0.00	
11,600.0	90.00	90.00	7,181.0	146.1	4,471.0	4,471.0	0.00	0.00	
11,672.2	90.00	90.00	7,181.0	146.1	4,543.2	4,543.2	0.00	0.00	TD at 11672.2 - State 3D-16H PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
State 3D-16H PBHL - hit/miss target - Shape - Point	0.00	0.00	7,181.0	146.1	4,543.2	1,324,324.06	3,139,588.85	40.222580	-105.000130

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site:</b>	S16-T3N-R68W (State)	<b>North Reference:</b>	True
<b>Well:</b>	State 3D-16H	<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 (°)	
72.0	72.0	Base of Fox Hills				
4,161.2	4,142.0	Sussex				
4,397.2	4,378.0	Sussex Marker				
4,671.2	4,652.0	Shannon				
6,491.2	6,472.0	Teepee Buttes				
7,177.6	7,055.0	Sharon Springs				
7,326.5	7,126.0	Niobrara				
7,462.1	7,166.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
200.0	200.0	0.0	0.0	KOP @ 200'	
700.0	699.4	3.8	-21.5	End of build; Start build/turn	
1,292.2	1,286.5	38.5	-88.5	EOB; Inc=10°	
1,842.2	1,828.1	94.7	-165.8	Start Drop -1.00	
2,842.2	2,823.1	145.8	-236.2	EOD; Inc=0°	
6,484.0	6,464.8	145.8	-236.2	Start Build 8.00	
7,609.0	7,181.0	145.9	480.0	LP @ 7181' TVD; 90°	
11,672.2	7,181.0	146.1	4,543.2	TD at 11672.2	

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

**DJ Wattenberg**

**S16-T3N-R68W (State)**

**State 3D-16H**

**Hz**

**Plan #1**

## **Anticollision Report**

**05 February, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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 500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	2/5/2013	
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,672.2	Plan #1 (Hz)	MWD	Geolink MWD

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Summary</b>						
<b>Offset Well - Wellbore - Design</b>						
S16-T3N-R68W (State)						
State 23-16 - Existing - Existing						Out of range
State 3A-16H - Hz - Plan #1	200.0	200.0	29.1	28.5	44.646	CC, ES
State 3A-16H - Hz - Plan #1	700.0	696.3	49.6	47.1	19.873	SF
State 3B-16H - Hz - Plan #1	390.4	390.3	17.9	16.6	13.559	CC
State 3B-16H - Hz - Plan #1	400.0	400.0	17.9	16.6	13.221	ES
State 3B-16H - Hz - Plan #1	600.0	599.2	23.0	20.9	11.025	SF
State 3C-16H - Hz - Plan #1	320.4	320.4	7.2	6.1	6.675	CC, ES
State 3C-16H - Hz - Plan #1	11,672.2	11,915.1	414.8	219.5	2.123	SF
State 3E-16H - Hz - Plan #1	200.0	200.0	10.9	10.3	16.742	CC
State 3E-16H - Hz - Plan #1	300.0	300.0	11.1	10.1	11.084	ES
State 3E-16H - Hz - Plan #1	11,672.2	11,899.4	414.8	219.4	2.123	SF
State 3F-16H - Hz - Plan #1	200.0	200.0	21.9	21.2	33.484	CC
State 3F-16H - Hz - Plan #1	300.0	300.0	22.0	21.0	21.966	ES
State 3F-16H - Hz - Plan #1	600.0	599.0	30.1	28.1	14.495	SF
State 3G-16H - Hz - Plan #1	200.0	200.0	32.8	32.1	50.227	CC
State 3G-16H - Hz - Plan #1	300.0	300.0	32.9	31.9	32.860	ES
State 3G-16H - Hz - Plan #1	600.0	597.8	44.3	42.2	21.253	SF
State 3H-16H - Hz - Plan #1	200.0	200.0	40.1	39.4	61.388	CC, ES
State 3H-16H - Hz - Plan #1	700.0	694.8	67.3	64.9	27.229	SF

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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 S16-T3N-R68W (State) - State 3A-16H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	29.1	0.0	29.1					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	29.1	0.0	29.1	28.8	0.30	95.963		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	29.1	0.0	29.1	28.5	0.65	44.646 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	81.30	30.0	-0.2	29.8	28.8	1.00	29.793		
400.0	400.0	398.9	398.9	0.7	0.7	84.85	32.5	-0.7	32.1	30.7	1.36	23.646		
500.0	499.9	498.3	498.1	0.9	0.9	89.75	36.7	-1.6	36.0	34.2	1.72	20.919		
600.0	599.7	597.4	597.1	1.1	1.1	95.00	42.6	-2.8	41.8	39.7	2.10	19.914		
700.0	699.4	696.3	695.7	1.3	1.3	99.88	50.2	-4.3	49.6	47.1	2.50	19.873 SF		
800.0	798.9	795.1	794.0	1.5	1.5	96.57	59.4	-6.2	58.8	55.9	2.92	20.158		
900.0	898.4	893.6	891.9	1.8	1.8	94.19	70.2	-8.4	68.7	65.4	3.37	20.397		
1,000.0	997.6	992.0	989.5	2.0	2.0	92.51	82.7	-11.0	79.3	75.4	3.85	20.569		
1,100.0	1,096.7	1,090.3	1,086.7	2.3	2.3	91.32	96.8	-13.9	90.5	86.1	4.38	20.665		
1,200.0	1,195.5	1,188.4	1,183.5	2.6	2.6	90.49	112.4	-17.1	102.2	97.3	4.94	20.690		
1,300.0	1,294.1	1,286.3	1,279.8	2.9	3.0	90.08	129.7	-20.6	114.6	109.1	5.55	20.657		
1,400.0	1,392.6	1,384.0	1,375.6	3.2	3.3	91.27	148.6	-24.5	127.9	121.8	6.18	20.702		
1,500.0	1,491.1	1,481.5	1,470.8	3.6	3.7	91.71	168.9	-28.7	142.4	135.5	6.83	20.850		
1,600.0	1,589.6	1,578.7	1,565.4	3.9	4.1	91.60	190.8	-33.2	157.9	150.4	7.49	21.078		
1,700.0	1,688.1	1,675.4	1,659.2	4.3	4.6	91.10	214.2	-38.0	174.5	166.3	8.16	21.375		
1,800.0	1,786.5	1,771.8	1,752.2	4.6	5.0	90.31	239.0	-43.1	192.2	183.3	8.84	21.735		
1,900.0	1,885.1	1,869.4	1,846.0	4.9	5.5	89.42	265.3	-48.5	210.7	201.2	9.51	22.148		
2,000.0	1,983.9	1,967.5	1,940.3	5.2	6.0	88.36	291.8	-53.9	229.4	219.3	10.15	22.607		
2,100.0	2,082.9	2,065.5	2,034.5	5.5	6.5	87.07	318.3	-59.3	248.3	237.6	10.74	23.122		
2,200.0	2,182.2	2,163.4	2,128.6	5.8	7.0	85.62	344.7	-64.8	267.5	256.2	11.28	23.704		
2,300.0	2,281.6	2,261.1	2,222.5	6.0	7.5	84.05	371.1	-70.2	287.0	275.2	11.78	24.364		
2,400.0	2,381.3	2,358.6	2,316.3	6.2	7.9	82.38	397.4	-75.6	307.0	294.7	12.22	25.110		
2,500.0	2,481.0	2,455.9	2,409.8	6.4	8.4	80.64	423.7	-81.0	327.5	314.9	12.62	25.950		
2,600.0	2,580.9	2,552.9	2,503.1	6.6	8.9	78.85	449.9	-86.4	348.7	335.7	12.97	26.892		
2,700.0	2,680.9	2,649.7	2,596.1	6.8	9.4	77.04	476.0	-91.7	370.6	357.4	13.26	27.940		
2,800.0	2,780.8	2,746.1	2,688.8	6.9	9.9	75.22	502.0	-97.1	393.4	379.9	13.52	29.101		
2,900.0	2,880.8	2,842.3	2,781.2	7.0	10.4	73.30	528.0	-102.4	417.0	402.6	14.40	28.959		
3,000.0	2,980.8	2,938.4	2,873.6	7.1	10.9	71.48	553.9	-107.7	441.1	425.9	15.16	29.098		
3,100.0	3,080.8	3,034.6	2,966.0	7.3	11.4	69.64	579.9	-113.1	465.6	449.7	15.91	29.262		
3,200.0	3,180.8	3,130.7	3,058.4	7.4	11.9	67.87	605.9	-118.4	490.4	473.8	16.66	29.445		

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	0.00	18.2	0.0	18.2						
100.0	100.0	100.0	100.0	0.2	0.2	0.00	18.2	0.0	18.2	17.9	0.30	59.977			
200.0	200.0	200.0	200.0	0.3	0.3	0.00	18.2	0.0	18.2	17.6	0.65	27.904			
300.0	300.0	300.0	300.0	0.5	0.5	82.73	18.2	0.0	18.1	17.1	1.00	18.034			
390.4	390.3	390.3	390.3	0.7	0.7	90.00	18.2	0.0	17.9	16.6	1.32	13.559 CC			
400.0	400.0	400.0	400.0	0.7	0.7	91.05	18.2	0.0	17.9	16.6	1.36	13.221 ES			
500.0	499.9	499.6	499.6	0.9	0.8	102.91	19.0	-0.2	19.2	17.5	1.72	11.181			
600.0	599.7	599.2	599.2	1.1	1.0	113.65	21.5	-1.0	23.0	20.9	2.09	11.025 SF			
700.0	699.4	698.7	698.5	1.3	1.2	121.20	25.7	-2.1	29.2	26.8	2.47	11.850			
800.0	798.9	798.1	797.7	1.5	1.4	118.66	31.5	-3.8	36.9	34.1	2.86	12.892			
900.0	898.4	897.4	896.7	1.8	1.6	116.34	39.0	-5.9	45.3	42.0	3.29	13.773			
1,000.0	997.6	996.6	995.5	2.0	1.8	114.34	48.0	-8.6	54.2	50.4	3.74	14.492			
1,100.0	1,096.7	1,095.8	1,094.1	2.3	2.1	112.67	58.8	-11.6	63.6	59.4	4.23	15.056			
1,200.0	1,195.5	1,194.9	1,192.3	2.6	2.3	111.27	71.1	-15.2	73.6	68.9	4.76	15.481			
1,300.0	1,294.1	1,293.9	1,290.3	2.9	2.6	110.26	85.1	-19.2	84.1	78.8	5.33	15.790			
1,400.0	1,392.6	1,392.8	1,387.9	3.2	2.9	110.64	100.7	-23.7	95.1	89.2	5.93	16.037			
1,500.0	1,491.1	1,491.7	1,485.1	3.6	3.3	110.06	117.9	-28.6	106.6	100.0	6.57	16.230			
1,600.0	1,589.6	1,590.3	1,581.8	3.9	3.6	108.81	136.6	-34.0	118.7	111.4	7.24	16.392			
1,700.0	1,688.1	1,689.4	1,678.7	4.3	4.0	107.36	156.4	-39.6	131.1	123.2	7.92	16.550			
1,800.0	1,786.5	1,788.6	1,775.7	4.6	4.4	106.16	176.3	-45.3	143.6	135.0	8.61	16.685			
1,900.0	1,885.1	1,887.8	1,872.7	4.9	4.7	105.12	196.1	-51.0	156.1	146.8	9.29	16.805			
2,000.0	1,983.9	1,986.9	1,969.7	5.2	5.1	103.77	215.9	-56.7	168.2	158.3	9.94	16.919			
2,100.0	2,082.9	2,086.1	2,066.7	5.5	5.5	102.07	235.7	-62.4	180.1	169.6	10.57	17.039			
2,200.0	2,182.2	2,185.1	2,163.6	5.8	5.9	100.08	255.5	-68.0	191.9	180.7	11.16	17.185			
2,300.0	2,281.6	2,284.1	2,260.4	6.0	6.3	97.85	275.3	-73.7	203.6	191.9	11.72	17.375			
2,400.0	2,381.3	2,383.0	2,357.1	6.2	6.7	95.42	295.1	-79.4	215.4	203.2	12.22	17.626			
2,500.0	2,481.0	2,481.7	2,453.7	6.4	7.0	92.83	314.8	-85.0	227.6	214.9	12.68	17.953			
2,600.0	2,580.9	2,580.2	2,550.0	6.6	7.4	90.11	334.5	-90.7	240.2	227.1	13.07	18.369			
2,700.0	2,680.9	2,678.5	2,646.2	6.8	7.8	87.29	354.1	-96.3	253.4	240.0	13.42	18.886			
2,800.0	2,780.8	2,776.6	2,742.1	6.9	8.2	84.42	373.7	-101.9	267.4	253.7	13.70	19.515			
2,900.0	2,880.8	2,874.4	2,837.8	7.0	8.6	81.48	393.3	-107.5	282.2	270.1	14.16	20.210			
3,000.0	2,980.8	2,972.2	2,933.5	7.1	9.0	78.75	412.8	-113.2	297.8	285.0	14.63	20.965			
3,100.0	3,080.8	3,070.1	3,029.2	7.3	9.4	76.29	432.4	-118.8	314.0	300.5	15.10	21.770			
3,200.0	3,180.8	3,167.9	3,124.9	7.4	9.8	74.08	451.9	-124.4	330.7	316.5	15.57	22.625			
3,300.0	3,280.8	3,265.7	3,220.5	7.5	10.2	72.07	471.5	-130.0	347.8	333.0	16.04	23.530			
3,400.0	3,380.8	3,363.5	3,316.2	7.7	10.5	70.26	491.0	-135.6	365.3	349.8	16.51	24.485			
3,500.0	3,480.8	3,461.3	3,411.9	7.8	10.9	68.61	510.6	-141.2	383.2	367.0	16.98	25.490			
3,600.0	3,580.8	3,559.1	3,507.6	7.9	11.3	67.10	530.1	-146.8	401.3	384.5	17.45	26.545			
3,700.0	3,680.8	3,656.9	3,603.2	8.1	11.7	65.73	549.7	-152.4	419.7	402.3	17.92	27.650			
3,800.0	3,780.8	3,754.8	3,698.9	8.2	12.1	64.47	569.2	-158.0	438.3	420.2	18.39	28.805			
3,900.0	3,880.8	3,852.6	3,794.6	8.4	12.5	63.31	588.8	-163.6	457.1	438.4	18.86	29.960			
4,000.0	3,980.8	3,950.4	3,890.3	8.5	12.9	62.25	608.3	-169.2	476.0	456.7	19.33	31.165			
4,100.0	4,080.8	4,048.2	3,985.9	8.6	13.3	61.26	627.9	-174.8	495.1	475.2	19.80	32.420			

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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 S16-T3N-R68W (State) - State 3C-16H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	0.00	7.3	0.0	7.3					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	7.3	0.0	7.3	7.0	0.30	23.991		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	7.3	0.0	7.3	6.6	0.65	11.161		
300.0	300.0	300.0	300.0	0.5	0.5	86.87	7.3	0.0	7.2	6.2	1.00	7.166		
320.4	320.4	320.4	320.4	0.5	0.5	89.99	7.3	0.0	7.2	6.1	1.07	6.675 CC, ES		
400.0	400.0	400.0	400.0	0.7	0.7	107.22	7.3	0.0	7.5	6.2	1.36	5.538		
500.0	499.9	499.9	499.9	0.9	0.8	132.51	7.3	0.0	9.7	8.0	1.71	5.697		
600.0	599.7	599.7	599.7	1.1	1.0	150.46	7.3	0.0	14.6	12.5	2.06	7.086		
700.0	699.4	699.5	699.5	1.3	1.2	158.47	8.1	-0.4	21.5	19.1	2.41	8.947		
800.0	798.9	799.3	799.2	1.5	1.4	153.94	10.4	-1.5	29.3	26.6	2.76	10.619		
900.0	898.4	899.1	899.0	1.8	1.6	149.79	14.3	-3.4	37.4	34.2	3.13	11.941		
1,000.0	997.6	999.0	998.7	2.0	1.7	146.27	19.8	-6.1	45.6	42.1	3.51	12.985		
1,100.0	1,096.7	1,099.0	1,098.3	2.3	1.9	143.31	26.8	-9.5	54.0	50.1	3.91	13.798		
1,200.0	1,195.5	1,199.0	1,197.9	2.6	2.2	140.80	35.4	-13.7	62.6	58.2	4.34	14.413		
1,300.0	1,294.1	1,299.0	1,297.3	2.9	2.4	138.83	45.6	-18.7	71.3	66.5	4.80	14.857		
1,400.0	1,392.6	1,399.1	1,396.5	3.2	2.7	138.30	57.3	-24.4	79.8	74.5	5.29	15.066		
1,500.0	1,491.1	1,499.3	1,495.6	3.6	2.9	136.79	70.6	-30.9	87.7	81.8	5.84	15.012		
1,600.0	1,589.6	1,599.4	1,594.4	3.9	3.2	134.53	85.4	-38.1	95.1	88.6	6.44	14.764		
1,700.0	1,688.1	1,699.1	1,692.5	4.3	3.5	132.13	101.0	-45.7	102.4	95.3	7.07	14.480		
1,800.0	1,786.5	1,798.7	1,790.6	4.6	3.9	130.05	116.5	-53.3	109.8	102.1	7.72	14.235		
1,900.0	1,885.1	1,898.4	1,888.8	4.9	4.2	128.16	132.1	-60.9	117.3	108.9	8.37	14.004		
2,000.0	1,983.9	1,998.0	1,986.9	5.2	4.5	125.93	147.6	-68.5	123.8	114.8	9.04	13.703		
2,100.0	2,082.9	2,097.7	2,085.1	5.5	4.8	123.29	163.2	-76.0	129.7	119.9	9.71	13.353		
2,200.0	2,182.2	2,197.3	2,183.2	5.8	5.2	120.25	178.7	-83.6	134.8	124.5	10.38	12.987		
2,300.0	2,281.6	2,296.8	2,281.2	6.0	5.5	116.81	194.3	-91.2	139.6	128.5	11.04	12.638		
2,400.0	2,381.3	2,396.3	2,379.1	6.2	5.8	112.98	209.8	-98.8	144.1	132.4	11.69	12.334		
2,500.0	2,481.0	2,495.6	2,476.9	6.4	6.2	108.78	225.3	-106.3	148.7	136.4	12.29	12.103		
2,600.0	2,580.9	2,594.7	2,574.5	6.6	6.5	104.24	240.8	-113.9	153.7	140.8	12.84	11.969		
2,700.0	2,680.9	2,693.6	2,672.0	6.8	6.8	99.42	256.2	-121.4	159.2	145.9	13.32	11.956		
2,800.0	2,780.8	2,792.4	2,769.2	6.9	7.2	94.38	271.6	-128.9	165.7	152.0	13.71	12.087		
2,900.0	2,880.8	2,890.9	2,866.2	7.0	7.5	89.26	287.0	-136.4	173.5	162.8	14.10	12.173		
3,000.0	2,980.8	2,989.3	2,963.2	7.1	7.9	84.53	302.4	-143.9	182.6	171.3	14.50	12.260		
3,100.0	3,080.8	3,087.8	3,060.1	7.3	8.2	79.26	317.7	-151.4	192.8	180.8	14.91	12.347		
3,200.0	3,180.8	3,186.3	3,157.1	7.4	8.5	74.22	333.1	-158.9	204.0	191.4	15.33	12.434		
3,300.0	3,280.8	3,284.8	3,254.1	7.5	8.9	69.01	348.5	-166.4	216.0	202.7	15.75	12.521		
3,400.0	3,380.8	3,383.3	3,351.1	7.7	9.2	63.95	363.8	-173.9	228.7	214.7	16.17	12.608		
3,500.0	3,480.8	3,481.7	3,448.1	7.8	9.6	59.22	379.2	-181.4	242.0	227.4	16.60	12.695		
3,600.0	3,580.8	3,580.2	3,545.1	7.9	9.9	54.77	394.6	-188.9	255.7	240.5	17.03	12.782		
3,700.0	3,680.8	3,678.7	3,642.1	8.1	10.2	50.58	410.0	-196.4	269.9	254.0	17.46	12.869		
3,800.0	3,780.8	3,779.3	3,741.1	8.2	10.6	46.58	425.5	-204.0	284.3	267.8	17.89	12.956		
3,900.0	3,880.8	3,882.5	3,843.1	8.4	10.9	42.79	440.0	-211.0	297.6	280.5	18.32	13.043		
4,000.0	3,980.8	3,986.3	3,945.9	8.5	11.2	39.22	452.9	-217.3	309.6	292.0	18.75	13.130		
4,100.0	4,080.8	4,090.6	4,049.4	8.6	11.5	35.95	464.2	-222.8	320.2	302.0	19.18	13.217		
4,200.0	4,180.8	4,195.3	4,153.6	8.8	11.7	32.95	473.8	-227.5	329.2	310.6	19.61	13.304		
4,300.0	4,280.8	4,300.4	4,258.3	8.9	11.9	30.12	481.7	-231.4	336.7	317.6	20.04	13.391		
4,400.0	4,380.8	4,405.8	4,363.5	9.1	12.1	27.45	488.0	-234.4	342.6	323.1	20.47	13.478		
4,500.0	4,480.8	4,511.4	4,468.9	9.2	12.3	24.95	492.4	-236.6	346.8	327.0	20.90	13.565		
4,600.0	4,580.8	4,617.1	4,574.6	9.4	12.5	22.58	495.2	-238.0	349.4	329.3	21.33	13.652		
4,700.0	4,680.8	4,722.9	4,680.4	9.5	12.6	20.32	496.2	-238.5	350.4	329.9	21.76	13.739		
4,800.0	4,780.8	4,823.3	4,780.8	9.7	12.7	18.15	496.2	-238.5	350.4	329.6	22.19	13.826		
4,900.0	4,880.8	4,923.3	4,880.8	9.8	12.8	16.08	496.2	-238.5	350.4	329.3	22.62	13.913		
5,000.0	4,980.8	5,023.3	4,980.8	10.0	12.9	14.12	496.2	-238.5	350.4	329.0	23.05	14.000		

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,100.0	5,080.8	5,123.3	5,080.8	10.1	13.0	-0.36	496.2	-238.5	350.4	328.8	21.62	16.205			
5,200.0	5,180.8	5,223.3	5,180.8	10.3	13.2	-0.36	496.2	-238.5	350.4	328.5	21.92	15.987			
5,300.0	5,280.8	5,323.3	5,280.8	10.4	13.3	-0.36	496.2	-238.5	350.4	328.2	22.21	15.775			
5,400.0	5,380.8	5,423.3	5,380.8	10.6	13.4	-0.36	496.2	-238.5	350.4	327.9	22.51	15.567			
5,500.0	5,480.8	5,523.3	5,480.8	10.7	13.5	-0.36	496.2	-238.5	350.4	327.6	22.81	15.363			
5,600.0	5,580.8	5,623.3	5,580.8	10.9	13.7	-0.36	496.2	-238.5	350.4	327.3	23.11	15.164			
5,700.0	5,680.8	5,723.3	5,680.8	11.1	13.8	-0.36	496.2	-238.5	350.4	327.0	23.41	14.969			
5,800.0	5,780.8	5,823.3	5,780.8	11.2	13.9	-0.36	496.2	-238.5	350.4	326.7	23.71	14.779			
5,900.0	5,880.8	5,923.3	5,880.8	11.4	14.0	-0.36	496.2	-238.5	350.4	326.4	24.01	14.592			
6,000.0	5,980.8	6,023.3	5,980.8	11.5	14.2	-0.36	496.2	-238.5	350.4	326.1	24.31	14.410			
6,100.0	6,080.8	6,123.3	6,080.8	11.7	14.3	-0.36	496.2	-238.5	350.4	325.8	24.62	14.231			
6,200.0	6,180.8	6,223.3	6,180.8	11.9	14.4	-0.36	496.2	-238.5	350.4	325.5	24.93	14.057			
6,300.0	6,280.8	6,323.3	6,280.8	12.0	14.6	-0.36	496.2	-238.5	350.4	325.1	25.23	13.886			
6,400.0	6,380.8	6,423.3	6,380.8	12.2	14.7	-0.36	496.2	-238.5	350.4	324.8	25.54	13.718			
6,460.6	6,441.4	6,483.9	6,441.4	12.3	14.8	-90.43	496.2	-238.5	350.4	326.4	23.99	14.604			
6,500.0	6,480.8	6,523.3	6,480.8	12.3	14.8	-90.39	496.2	-238.5	350.4	326.3	24.12	14.525			
6,600.0	6,580.3	6,622.8	6,580.3	12.4	15.0	-91.87	496.2	-238.5	350.6	326.3	24.28	14.439			
6,700.0	6,677.6	6,720.1	6,677.6	12.4	15.1	-95.38	496.2	-238.5	352.1	327.8	24.25	14.519			
6,800.0	6,770.7	6,821.8	6,779.0	12.4	15.2	-100.08	496.2	-232.6	356.4	332.3	24.11	14.782			
6,900.0	6,857.8	6,929.2	6,884.1	12.4	15.2	-104.64	496.2	-211.0	363.3	339.3	24.00	15.138			
7,000.0	6,937.3	7,042.4	6,990.1	12.5	15.2	-108.90	496.2	-171.5	372.0	348.0	23.98	15.511			
7,100.0	7,007.6	7,161.9	7,093.7	12.7	15.2	-112.74	496.2	-112.3	381.8	357.7	24.17	15.800			
7,200.0	7,067.4	7,287.9	7,190.7	13.2	15.3	-116.06	496.2	-32.2	391.9	367.2	24.69	15.870			
7,300.0	7,115.4	7,420.3	7,275.9	14.1	15.6	-118.78	496.2	69.0	401.2	375.5	25.66	15.634			
7,400.0	7,150.7	7,558.3	7,343.3	15.3	16.4	-120.80	496.2	189.2	408.6	381.4	27.27	14.985			
7,500.0	7,172.7	7,700.8	7,387.4	16.9	17.8	-122.05	496.2	324.4	413.5	383.9	29.59	13.974			
7,600.0	7,180.9	7,845.5	7,403.9	18.6	20.0	-122.48	496.1	468.0	415.2	382.6	32.61	12.733			
7,700.0	7,181.0	7,948.6	7,404.0	20.5	21.9	-122.48	496.1	571.0	415.2	379.4	35.83	11.589			
7,800.0	7,181.0	8,048.6	7,404.0	22.5	23.8	-122.48	496.1	671.0	415.2	376.0	39.21	10.590			
7,900.0	7,181.0	8,148.6	7,404.0	24.6	25.8	-122.49	496.1	771.0	415.2	372.5	42.73	9.716			
8,000.0	7,181.0	8,248.6	7,404.0	26.8	27.9	-122.49	496.1	871.0	415.2	368.8	46.37	8.955			
8,100.0	7,181.0	8,348.6	7,404.0	29.0	30.0	-122.49	496.1	971.0	415.2	365.1	50.08	8.290			
8,200.0	7,181.0	8,448.6	7,404.0	31.3	32.2	-122.49	496.1	1,071.0	415.2	361.3	53.87	7.707			
8,300.0	7,181.0	8,548.6	7,404.0	33.6	34.4	-122.49	496.1	1,171.0	415.2	357.4	57.71	7.194			
8,400.0	7,181.0	8,648.6	7,404.0	35.9	36.7	-122.49	496.1	1,271.0	415.1	353.6	61.59	6.740			
8,500.0	7,181.0	8,748.6	7,404.0	38.2	39.0	-122.49	496.1	1,371.0	415.1	349.6	65.51	6.337			
8,600.0	7,181.0	8,848.6	7,404.0	40.5	41.3	-122.49	496.1	1,471.0	415.1	345.7	69.46	5.976			
8,700.0	7,181.0	8,948.6	7,404.0	42.9	43.6	-122.49	496.1	1,571.0	415.1	341.7	73.44	5.652			
8,800.0	7,181.0	9,048.6	7,404.0	45.3	46.0	-122.49	496.1	1,671.0	415.1	337.7	77.44	5.361			
8,900.0	7,181.0	9,148.6	7,404.0	47.7	48.3	-122.50	496.1	1,771.0	415.1	333.6	81.45	5.096			
9,000.0	7,181.0	9,248.6	7,404.0	50.0	50.7	-122.50	496.0	1,871.0	415.1	329.6	85.48	4.856			
9,100.0	7,181.0	9,348.6	7,404.0	52.4	53.1	-122.50	496.0	1,971.0	415.1	325.5	89.53	4.636			
9,200.0	7,181.0	9,448.6	7,404.0	54.9	55.5	-122.50	496.0	2,071.0	415.0	321.5	93.58	4.435			
9,300.0	7,181.0	9,548.6	7,404.0	57.3	57.9	-122.50	496.0	2,171.0	415.0	317.4	97.65	4.250			
9,400.0	7,181.0	9,648.6	7,404.0	59.7	60.3	-122.50	496.0	2,271.0	415.0	313.3	101.72	4.080			
9,500.0	7,181.0	9,748.6	7,404.0	62.1	62.7	-122.50	496.0	2,371.0	415.0	309.2	105.81	3.922			
9,600.0	7,181.0	9,848.6	7,404.0	64.5	65.1	-122.50	496.0	2,471.0	415.0	305.1	109.90	3.776			
9,700.0	7,181.0	9,948.6	7,404.0	67.0	67.5	-122.50	496.0	2,571.0	415.0	301.0	113.99	3.641			
9,800.0	7,181.0	10,048.6	7,404.0	69.4	69.9	-122.51	496.0	2,671.0	415.0	296.9	118.09	3.514			
9,900.0	7,181.0	10,148.6	7,404.0	71.8	72.3	-122.51	496.0	2,771.0	415.0	292.8	122.20	3.396			
10,000.0	7,181.0	10,248.6	7,404.0	74.3	74.8	-122.51	496.0	2,871.0	415.0	288.6	126.31	3.285			
10,100.0	7,181.0	10,348.6	7,404.0	76.7	77.2	-122.51	496.0	2,971.0	414.9	284.5	130.43	3.181			

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft
S16-T3N-R68W (State) - State 3C-16H - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
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	7,181.0	10,448.6	7,404.0	79.1	79.6	-122.51	496.0	3,071.0	414.9	280.4	134.55	3.084		
10,300.0	7,181.0	10,548.6	7,404.0	81.6	82.1	-122.51	495.9	3,171.0	414.9	276.3	138.67	2.992		
10,400.0	7,181.0	10,648.6	7,404.0	84.0	84.5	-122.51	495.9	3,271.0	414.9	272.1	142.80	2.906		
10,500.0	7,181.0	10,748.6	7,404.0	86.5	86.9	-122.51	495.9	3,371.0	414.9	268.0	146.92	2.824		
10,600.0	7,181.0	10,848.6	7,404.0	88.9	89.4	-122.51	495.9	3,471.0	414.9	263.8	151.06	2.747		
10,700.0	7,181.0	10,948.6	7,404.0	91.4	91.8	-122.51	495.9	3,571.0	414.9	259.7	155.19	2.673		
10,800.0	7,181.0	11,048.6	7,404.0	93.8	94.3	-122.52	495.9	3,671.0	414.9	255.5	159.33	2.604		
10,900.0	7,181.0	11,148.6	7,404.0	96.3	96.7	-122.52	495.9	3,771.0	414.9	251.4	163.46	2.538		
11,000.0	7,181.0	11,248.6	7,404.0	98.7	99.2	-122.52	495.9	3,871.0	414.8	247.2	167.60	2.475		
11,100.0	7,181.0	11,348.6	7,404.0	101.2	101.6	-122.52	495.9	3,971.0	414.8	243.1	171.74	2.415		
11,200.0	7,181.0	11,448.6	7,404.0	103.7	104.1	-122.52	495.9	4,071.0	414.8	238.9	175.89	2.358		
11,300.0	7,181.0	11,548.6	7,404.0	106.1	106.5	-122.52	495.9	4,171.0	414.8	234.8	180.03	2.304		
11,400.0	7,181.0	11,648.6	7,404.0	108.6	109.0	-122.52	495.9	4,271.0	414.8	230.6	184.18	2.252		
11,500.0	7,181.0	11,748.6	7,404.0	111.0	111.4	-122.52	495.9	4,371.0	414.8	226.5	188.32	2.203		
11,600.0	7,181.0	11,848.6	7,404.0	113.5	113.9	-122.52	495.9	4,471.0	414.8	222.3	192.47	2.155		
11,651.4	7,181.0	11,900.0	7,404.0	114.8	115.1	-122.52	495.9	4,522.5	414.8	220.2	194.61	2.131		
11,672.2	7,181.0	11,915.1	7,404.0	115.3	115.5	-122.52	495.9	4,537.6	414.8	219.5	195.35	2.123 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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 S16-T3N-R68W (State) - State 3E-16H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-10.9	0.0	10.9					
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-10.9	0.0	10.9	10.6	0.30	35.986		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-10.9	0.0	10.9	10.3	0.65	16.742	CC	
300.0	300.0	300.0	300.0	0.5	0.5	-104.43	-10.9	0.0	11.1	10.1	1.00	11.084	ES	
400.0	400.0	399.9	399.9	0.7	0.7	-112.84	-11.5	-0.7	12.4	11.0	1.36	9.138		
500.0	499.9	499.7	499.7	0.9	0.9	-119.08	-13.1	-2.7	15.3	13.6	1.72	8.922		
600.0	599.7	599.5	599.4	1.1	1.0	-122.63	-15.9	-6.1	19.8	17.7	2.09	9.466		
700.0	699.4	699.2	698.9	1.3	1.2	-124.27	-19.7	-10.8	25.8	23.3	2.49	10.358		
800.0	798.9	798.8	798.2	1.5	1.4	-131.22	-24.6	-16.9	33.5	30.6	2.90	11.554		
900.0	898.4	898.1	897.0	1.8	1.7	-134.75	-30.6	-24.2	43.5	40.1	3.34	13.023		
1,000.0	997.6	997.1	995.3	2.0	1.9	-136.48	-37.6	-32.9	55.7	51.9	3.80	14.662		
1,100.0	1,096.7	1,095.6	1,093.0	2.3	2.2	-137.30	-45.6	-42.9	70.4	66.1	4.29	16.406		
1,200.0	1,195.5	1,193.5	1,189.9	2.6	2.5	-137.66	-54.7	-54.0	87.4	82.6	4.80	18.204		
1,300.0	1,294.1	1,290.8	1,285.9	2.9	2.8	-137.63	-64.7	-66.4	106.9	101.6	5.34	20.019		
1,400.0	1,392.6	1,388.5	1,382.1	3.2	3.1	-135.90	-75.4	-79.6	127.6	121.7	5.90	21.649		
1,500.0	1,491.1	1,486.2	1,478.3	3.6	3.4	-134.66	-86.1	-92.8	148.5	142.0	6.46	22.991		
1,600.0	1,589.6	1,584.0	1,574.6	3.9	3.7	-133.72	-96.7	-106.0	169.3	162.3	7.02	24.112		
1,700.0	1,688.1	1,681.8	1,670.9	4.3	4.1	-132.99	-107.4	-119.2	190.2	182.6	7.59	25.059		
1,800.0	1,786.5	1,779.5	1,767.2	4.6	4.4	-132.40	-118.1	-132.4	211.2	203.0	8.16	25.868		
1,900.0	1,885.1	1,877.3	1,863.5	4.9	4.7	-131.96	-128.8	-145.6	231.9	223.2	8.74	26.546		
2,000.0	1,983.9	1,975.3	1,960.0	5.2	5.1	-131.38	-139.5	-158.8	251.7	242.4	9.30	27.068		
2,100.0	2,082.9	2,073.9	2,057.0	5.5	5.4	-130.62	-150.3	-172.1	270.3	260.5	9.84	27.460		
2,200.0	2,182.2	2,175.1	2,156.9	5.8	5.7	-129.85	-160.6	-184.9	287.3	276.9	10.36	27.725		
2,300.0	2,281.6	2,276.9	2,257.7	6.0	6.0	-129.19	-169.9	-196.3	302.2	291.4	10.85	27.863		
2,400.0	2,381.3	2,379.3	2,359.2	6.2	6.3	-128.59	-178.1	-206.5	315.1	303.8	11.30	27.891		
2,500.0	2,481.0	2,482.0	2,461.3	6.4	6.6	-128.03	-185.2	-215.2	325.9	314.2	11.71	27.819		
2,600.0	2,580.9	2,585.2	2,564.1	6.6	6.8	-127.51	-191.2	-222.6	334.5	322.4	12.10	27.656		
2,700.0	2,680.9	2,688.7	2,667.3	6.8	7.0	-127.00	-196.0	-228.5	341.1	328.6	12.45	27.405		
2,800.0	2,780.8	2,792.4	2,770.8	6.9	7.2	-126.50	-199.6	-233.0	345.5	332.7	12.76	27.070		
2,900.0	2,880.8	2,896.2	2,874.6	7.0	7.4	179.97	-202.1	-236.0	347.9	336.2	11.70	29.738		
3,000.0	2,980.8	3,000.2	2,978.5	7.1	7.5	-179.77	-203.3	-237.6	349.2	337.2	12.02	29.056		
3,100.0	3,080.8	3,102.5	3,080.8	7.3	7.6	-179.73	-203.5	-237.9	349.4	337.0	12.33	28.345		
3,200.0	3,180.8	3,202.5	3,180.8	7.4	7.7	-179.73	-203.5	-237.9	349.4	336.7	12.63	27.657		
3,300.0	3,280.8	3,302.5	3,280.8	7.5	7.9	-179.73	-203.5	-237.9	349.4	336.4	12.94	26.997		
3,400.0	3,380.8	3,402.5	3,380.8	7.7	8.0	-179.73	-203.5	-237.9	349.4	336.1	13.25	26.364		
3,500.0	3,480.8	3,502.5	3,480.8	7.8	8.1	-179.73	-203.5	-237.9	349.4	335.8	13.56	25.756		
3,600.0	3,580.8	3,602.5	3,580.8	7.9	8.3	-179.73	-203.5	-237.9	349.4	335.5	13.88	25.172		
3,700.0	3,680.8	3,702.5	3,680.8	8.1	8.4	-179.73	-203.5	-237.9	349.4	335.2	14.20	24.612		
3,800.0	3,780.8	3,802.5	3,780.8	8.2	8.5	-179.73	-203.5	-237.9	349.4	334.9	14.51	24.073		
3,900.0	3,880.8	3,902.5	3,880.8	8.4	8.7	-179.73	-203.5	-237.9	349.4	334.5	14.83	23.556		
4,000.0	3,980.8	4,002.5	3,980.8	8.5	8.8	-179.73	-203.5	-237.9	349.4	334.2	15.15	23.058		
4,100.0	4,080.8	4,102.5	4,080.8	8.6	8.9	-179.73	-203.5	-237.9	349.4	333.9	15.47	22.579		
4,200.0	4,180.8	4,202.5	4,180.8	8.8	9.1	-179.73	-203.5	-237.9	349.4	333.6	15.80	22.118		
4,300.0	4,280.8	4,302.5	4,280.8	8.9	9.2	-179.73	-203.5	-237.9	349.4	333.2	16.12	21.673		
4,400.0	4,380.8	4,402.5	4,380.8	9.1	9.4	-179.73	-203.5	-237.9	349.4	332.9	16.44	21.245		
4,500.0	4,480.8	4,502.5	4,480.8	9.2	9.5	-179.73	-203.5	-237.9	349.4	332.6	16.77	20.833		
4,600.0	4,580.8	4,602.5	4,580.8	9.4	9.6	-179.73	-203.5	-237.9	349.4	332.3	17.10	20.435		
4,700.0	4,680.8	4,702.5	4,680.8	9.5	9.8	-179.73	-203.5	-237.9	349.4	331.9	17.42	20.050		
4,800.0	4,780.8	4,802.5	4,780.8	9.7	9.9	-179.73	-203.5	-237.9	349.4	331.6	17.75	19.680		
4,900.0	4,880.8	4,902.5	4,880.8	9.8	10.1	-179.73	-203.5	-237.9	349.4	331.3	18.08	19.321		
5,000.0	4,980.8	5,002.5	4,980.8	10.0	10.2	-179.73	-203.5	-237.9	349.4	331.0	18.41	18.975		
5,100.0	5,080.8	5,102.5	5,080.8	10.1	10.4	-179.73	-203.5	-237.9	349.4	330.6	18.74	18.641		

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft								
Survey Program: 0-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	Warning									
5,200.0	5,180.8	5,202.5	5,180.8	10.3	10.5	-179.73	-203.5	-237.9	349.4	330.3	19.07	18.317										
5,300.0	5,280.8	5,302.5	5,280.8	10.4	10.7	-179.73	-203.5	-237.9	349.4	330.0	19.41	18.004										
5,400.0	5,380.8	5,402.5	5,380.8	10.6	10.8	-179.73	-203.5	-237.9	349.4	329.6	19.74	17.701										
5,500.0	5,480.8	5,502.5	5,480.8	10.7	11.0	-179.73	-203.5	-237.9	349.4	329.3	20.07	17.407										
5,600.0	5,580.8	5,602.5	5,580.8	10.9	11.1	-179.73	-203.5	-237.9	349.4	329.0	20.40	17.122										
5,700.0	5,680.8	5,702.5	5,680.8	11.1	11.3	-179.73	-203.5	-237.9	349.4	328.6	20.74	16.847										
5,800.0	5,780.8	5,802.5	5,780.8	11.2	11.4	-179.73	-203.5	-237.9	349.4	328.3	21.07	16.579										
5,900.0	5,880.8	5,902.5	5,880.8	11.4	11.6	-179.73	-203.5	-237.9	349.4	328.0	21.41	16.320										
6,000.0	5,980.8	6,002.5	5,980.8	11.5	11.8	-179.73	-203.5	-237.9	349.4	327.6	21.74	16.068										
6,100.0	6,080.8	6,102.5	6,080.8	11.7	11.9	-179.73	-203.5	-237.9	349.4	327.3	22.08	15.824										
6,200.0	6,180.8	6,202.5	6,180.8	11.9	12.1	-179.73	-203.5	-237.9	349.4	327.0	22.42	15.586										
6,300.0	6,280.8	6,302.5	6,280.8	12.0	12.2	-179.73	-203.5	-237.9	349.4	326.6	22.75	15.356										
6,400.0	6,380.8	6,402.5	6,380.8	12.2	12.4	-179.73	-203.5	-237.9	349.4	326.3	23.09	15.132										
6,460.7	6,441.5	6,463.2	6,441.5	12.3	12.5	90.34	-203.5	-237.9	349.4	325.4	24.00	14.558										
6,500.0	6,480.8	6,502.5	6,480.8	12.3	12.5	90.30	-203.5	-237.9	349.4	325.2	24.13	14.480										
6,600.0	6,580.3	6,602.0	6,580.3	12.4	12.7	91.78	-203.5	-237.9	349.5	325.2	24.37	14.343										
6,700.0	6,677.6	6,699.3	6,677.6	12.4	12.9	95.31	-203.5	-237.9	351.0	326.5	24.52	14.318										
6,800.0	6,770.7	6,800.9	6,778.9	12.4	13.0	100.03	-203.5	-232.0	355.4	330.8	24.53	14.488										
6,900.0	6,857.8	6,908.2	6,883.9	12.4	13.0	104.60	-203.5	-210.5	362.2	337.7	24.42	14.830										
7,000.0	6,937.3	7,021.2	6,989.8	12.5	13.0	108.87	-203.5	-171.1	370.9	346.6	24.28	15.275										
7,100.0	7,007.6	7,140.6	7,093.3	12.7	13.0	112.73	-203.5	-112.0	380.8	356.5	24.25	15.702										
7,200.0	7,067.4	7,266.5	7,190.3	13.2	13.1	116.07	-203.5	-32.0	390.9	366.3	24.53	15.934										
7,300.0	7,115.4	7,398.7	7,275.5	14.1	13.6	118.80	-203.5	69.0	400.2	374.8	25.34	15.790										
7,400.0	7,150.7	7,536.7	7,343.0	15.3	14.7	120.83	-203.5	189.1	407.7	380.8	26.94	15.135										
7,500.0	7,172.7	7,679.1	7,387.2	16.9	16.5	122.10	-203.5	324.1	412.7	383.3	29.41	14.033										
7,600.0	7,180.9	7,823.8	7,403.9	18.6	18.9	122.55	-203.5	467.7	414.5	381.8	32.71	12.674										
7,700.0	7,181.0	7,927.1	7,404.0	20.5	20.9	122.55	-203.5	571.0	414.5	378.6	35.93	11.537										
7,800.0	7,181.0	8,027.1	7,404.0	22.5	22.9	122.55	-203.5	671.0	414.5	375.2	39.29	10.551										
7,900.0	7,181.0	8,127.1	7,404.0	24.6	24.9	122.54	-203.5	771.0	414.5	371.7	42.79	9.687										
8,000.0	7,181.0	8,227.1	7,404.0	26.8	27.1	122.54	-203.5	871.0	414.5	368.1	46.41	8.933										
8,100.0	7,181.0	8,327.1	7,404.0	29.0	29.3	122.54	-203.5	971.0	414.5	364.4	50.11	8.273										
8,200.0	7,181.0	8,427.1	7,404.0	31.3	31.5	122.54	-203.5	1,071.0	414.5	360.7	53.88	7.694										
8,300.0	7,181.0	8,527.1	7,404.0	33.6	33.8	122.54	-203.6	1,171.0	414.6	356.8	57.71	7.184										
8,400.0	7,181.0	8,627.1	7,404.0	35.9	36.1	122.54	-203.6	1,271.0	414.6	353.0	61.58	6.732										
8,500.0	7,181.0	8,727.1	7,404.0	38.2	38.4	122.54	-203.6	1,371.0	414.6	349.1	65.49	6.330										
8,600.0	7,181.0	8,827.1	7,404.0	40.5	40.7	122.54	-203.6	1,471.0	414.6	345.1	69.44	5.971										
8,700.0	7,181.0	8,927.1	7,404.0	42.9	43.1	122.54	-203.6	1,571.0	414.6	341.2	73.40	5.648										
8,800.0	7,181.0	9,027.1	7,404.0	45.3	45.5	122.54	-203.6	1,671.0	414.6	337.2	77.39	5.357										
8,900.0	7,181.0	9,127.1	7,404.0	47.7	47.8	122.54	-203.6	1,771.0	414.6	333.2	81.40	5.093										
9,000.0	7,181.0	9,227.1	7,404.0	50.0	50.2	122.54	-203.6	1,871.0	414.6	329.2	85.43	4.853										
9,100.0	7,181.0	9,327.1	7,404.0	52.4	52.6	122.54	-203.6	1,971.0	414.6	325.1	89.47	4.634										
9,200.0	7,181.0	9,427.1	7,404.0	54.9	55.0	122.54	-203.6	2,071.0	414.6	321.1	93.52	4.433										
9,300.0	7,181.0	9,527.1	7,404.0	57.3	57.4	122.54	-203.6	2,171.0	414.6	317.0	97.58	4.249										
9,400.0	7,181.0	9,627.1	7,404.0	59.7	59.8	122.54	-203.6	2,271.0	414.6	313.0	101.66	4.079										
9,500.0	7,181.0	9,727.1	7,404.0	62.1	62.3	122.54	-203.6	2,371.0	414.6	308.9	105.74	3.921										
9,600.0	7,181.0	9,827.1	7,404.0	64.5	64.7	122.54	-203.6	2,471.0	414.6	304.8	109.82	3.775										
9,700.0	7,181.0	9,927.1	7,404.0	67.0	67.1	122.53	-203.6	2,571.0	414.6	300.7	113.92	3.640										
9,800.0	7,181.0	10,027.1	7,404.0	69.4	69.5	122.53	-203.6	2,671.0	414.6	296.6	118.02	3.513										
9,900.0	7,181.0	10,127.1	7,404.0	71.8	72.0	122.53	-203.6	2,771.0	414.7	292.5	122.12	3.395										
10,000.0	7,181.0	10,227.1	7,404.0	74.3	74.4	122.53	-203.6	2,871.0	414.7	288.4	126.23	3.285										
10,100.0	7,181.0	10,327.1	7,404.0	76.7	76.8	122.53	-203.6	2,971.0	414.7	284.3	130.35	3.181										
10,200.0	7,181.0	10,427.1	7,404.0	79.1	79.3	122.53	-203.6	3,071.0	414.7	280.2	134.47	3.084										

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft
S16-T3N-R68W (State) - State 3E-16H - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
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	7,181.0	10,527.1	7,404.0	81.6	81.7	122.53	-203.6	3,171.0	414.7	276.1	138.59	2.992		
10,400.0	7,181.0	10,627.1	7,404.0	84.0	84.2	122.53	-203.6	3,271.0	414.7	272.0	142.71	2.906		
10,500.0	7,181.0	10,727.1	7,404.0	86.5	86.6	122.53	-203.6	3,371.0	414.7	267.8	146.84	2.824		
10,600.0	7,181.0	10,827.1	7,404.0	88.9	89.1	122.53	-203.6	3,471.0	414.7	263.7	150.97	2.747		
10,700.0	7,181.0	10,927.1	7,404.0	91.4	91.5	122.53	-203.6	3,571.0	414.7	259.6	155.11	2.674		
10,800.0	7,181.0	11,027.1	7,404.0	93.8	94.0	122.53	-203.6	3,671.0	414.7	255.5	159.24	2.604		
10,900.0	7,181.0	11,127.1	7,404.0	96.3	96.4	122.53	-203.6	3,771.0	414.7	251.3	163.38	2.538		
11,000.0	7,181.0	11,227.1	7,404.0	98.7	98.9	122.53	-203.6	3,871.0	414.7	247.2	167.52	2.476		
11,100.0	7,181.0	11,327.1	7,404.0	101.2	101.3	122.53	-203.6	3,971.0	414.7	243.1	171.67	2.416		
11,200.0	7,181.0	11,427.1	7,404.0	103.7	103.8	122.53	-203.6	4,071.0	414.7	238.9	175.81	2.359		
11,300.0	7,181.0	11,527.1	7,404.0	106.1	106.2	122.53	-203.6	4,171.0	414.7	234.8	179.96	2.305		
11,400.0	7,181.0	11,627.1	7,404.0	108.6	108.7	122.53	-203.6	4,271.0	414.7	230.6	184.10	2.253		
11,500.0	7,181.0	11,727.1	7,404.0	111.0	111.1	122.53	-203.6	4,371.0	414.8	226.5	188.25	2.203		
11,600.0	7,181.0	11,827.1	7,404.0	113.5	113.6	122.52	-203.6	4,471.0	414.8	222.4	192.40	2.156		
11,672.2	7,181.0	11,899.4	7,404.0	115.3	115.4	122.52	-203.6	4,543.2	414.8	219.4	195.40	2.123 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-21.9	0.0	21.9						
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-21.9	0.0	21.9	21.6	0.30	71.972			
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-21.9	0.0	21.9	21.2	0.65	33.484	CC		
300.0	300.0	300.0	300.0	0.5	0.5	-102.23	-21.9	0.0	22.0	21.0	1.00	21.966	ES		
400.0	400.0	400.0	400.0	0.7	0.7	-108.69	-21.9	0.0	22.7	21.4	1.36	16.755			
500.0	499.9	499.5	499.5	0.9	0.8	-117.05	-22.7	-0.3	25.1	23.4	1.71	14.657			
600.0	599.7	599.0	599.0	1.1	1.0	-124.15	-25.0	-1.4	30.1	28.1	2.08	14.495	SF		
700.0	699.4	698.3	698.2	1.3	1.2	-129.12	-29.0	-3.0	37.6	35.2	2.45	15.342			
800.0	798.9	797.3	797.0	1.5	1.4	-138.91	-34.5	-5.4	47.8	44.9	2.83	16.854			
900.0	898.4	896.0	895.3	1.8	1.6	-144.77	-41.6	-8.4	60.6	57.4	3.23	18.797			
1,000.0	997.6	994.1	993.0	2.0	1.8	-148.24	-50.2	-12.0	76.2	72.6	3.63	20.993			
1,100.0	1,096.7	1,091.5	1,089.8	2.3	2.1	-150.32	-60.2	-16.3	94.6	90.5	4.05	23.346			
1,200.0	1,195.5	1,188.1	1,185.6	2.6	2.3	-151.57	-71.7	-21.1	115.7	111.2	4.48	25.799			
1,300.0	1,294.1	1,283.8	1,280.3	2.9	2.6	-152.17	-84.5	-26.6	139.6	134.7	4.93	28.307			
1,400.0	1,392.6	1,378.7	1,373.9	3.2	2.9	-150.71	-98.6	-32.6	165.4	160.0	5.40	30.619			
1,500.0	1,491.1	1,472.9	1,466.6	3.6	3.2	-149.30	-114.1	-39.1	192.3	186.4	5.88	32.683			
1,600.0	1,589.6	1,566.4	1,558.4	3.9	3.5	-147.93	-130.8	-46.2	220.4	214.0	6.38	34.552			
1,700.0	1,688.1	1,661.0	1,650.9	4.3	3.9	-146.66	-148.8	-53.9	249.5	242.6	6.88	36.242			
1,800.0	1,786.5	1,756.5	1,744.3	4.6	4.2	-145.62	-167.1	-61.6	278.7	271.3	7.39	37.700			
1,900.0	1,885.1	1,852.1	1,837.8	4.9	4.6	-144.84	-185.4	-69.4	307.8	299.9	7.91	38.928			
2,000.0	1,983.9	1,948.0	1,931.6	5.2	5.0	-144.12	-203.7	-77.2	335.7	327.3	8.42	39.895			
2,100.0	2,082.9	2,044.2	2,025.8	5.5	5.3	-143.37	-222.1	-85.0	362.4	353.5	8.91	40.652			
2,200.0	2,182.2	2,140.8	2,120.2	5.8	5.7	-142.57	-240.6	-92.9	387.7	378.3	9.40	41.246			
2,300.0	2,281.6	2,237.6	2,214.9	6.0	6.1	-141.73	-259.1	-100.7	411.9	402.0	9.87	41.713			
2,400.0	2,381.3	2,334.6	2,309.8	6.2	6.5	-140.84	-277.7	-108.6	434.8	424.5	10.33	42.082			
2,500.0	2,481.0	2,431.9	2,405.0	6.4	6.9	-139.91	-296.3	-116.5	456.5	445.8	10.77	42.376			
2,600.0	2,580.9	2,529.3	2,500.3	6.6	7.2	-138.94	-315.0	-124.4	477.1	465.9	11.20	42.614			
2,700.0	2,680.9	2,626.9	2,595.8	6.8	7.6	-137.91	-333.6	-132.3	496.6	485.0	11.60	42.811			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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													Offset Site Error:	0.0 ft
S16-T3N-R68W (State) - State 3G-16H - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-32.8	0.0	32.8					
100.0	100.0	100.0	100.0	0.2	0.2	180.00	-32.8	0.0	32.8	32.5	0.30	107.959		
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-32.8	0.0	32.8	32.1	0.65	50.227 CC		
300.0	300.0	300.0	300.0	0.5	0.5	-101.49	-32.8	0.0	32.9	31.9	1.00	32.860 ES		
400.0	400.0	399.4	399.4	0.7	0.7	-105.32	-33.6	-0.2	34.4	33.0	1.36	25.361		
500.0	499.9	498.7	498.7	0.9	0.9	-110.23	-36.1	-0.9	38.1	36.4	1.72	22.218		
600.0	599.7	597.8	597.7	1.1	1.0	-115.16	-40.3	-2.0	44.3	42.2	2.09	21.253 SF		
700.0	699.4	696.7	696.3	1.3	1.2	-119.44	-46.0	-3.6	53.0	50.6	2.47	21.498		
800.0	798.9	795.1	794.5	1.5	1.4	-129.77	-53.4	-5.5	64.7	61.8	2.86	22.632		
900.0	898.4	893.1	892.0	1.8	1.7	-136.85	-62.4	-7.9	79.4	76.2	3.26	24.395		
1,000.0	997.6	990.3	988.6	2.0	1.9	-141.71	-72.9	-10.7	97.2	93.6	3.66	26.533		
1,100.0	1,096.7	1,086.7	1,084.2	2.3	2.2	-145.08	-84.9	-14.0	118.0	113.9	4.08	28.903		
1,200.0	1,195.5	1,182.2	1,178.7	2.6	2.4	-147.47	-98.3	-17.5	141.7	137.2	4.51	31.419		
1,300.0	1,294.1	1,276.6	1,271.9	2.9	2.7	-149.04	-113.0	-21.5	168.3	163.4	4.95	34.020		
1,400.0	1,392.6	1,370.1	1,363.8	3.2	3.0	-148.41	-129.0	-25.8	196.9	191.5	5.40	36.446		
1,500.0	1,491.1	1,462.8	1,454.8	3.6	3.4	-147.70	-146.4	-30.4	226.7	220.9	5.87	38.647		
1,600.0	1,589.6	1,556.6	1,546.6	3.9	3.7	-146.97	-165.1	-35.5	257.6	251.3	6.34	40.631		
1,700.0	1,688.1	1,651.7	1,639.6	4.3	4.1	-146.37	-184.2	-40.6	288.6	281.8	6.82	42.326		
1,800.0	1,786.5	1,746.7	1,732.5	4.6	4.5	-145.89	-203.3	-45.7	319.6	312.3	7.30	43.790		
1,900.0	1,885.1	1,841.8	1,825.6	4.9	4.8	-145.57	-222.4	-50.8	350.5	342.7	7.79	45.014		
2,000.0	1,983.9	1,937.3	1,919.0	5.2	5.2	-145.24	-241.5	-55.9	380.0	371.8	8.27	45.976		
2,100.0	2,082.9	2,033.1	2,012.7	5.5	5.6	-144.84	-260.8	-61.1	408.3	399.5	8.74	46.727		
2,200.0	2,182.2	2,129.3	2,106.8	5.8	5.9	-144.36	-280.1	-66.3	435.2	426.0	9.20	47.311		
2,300.0	2,281.6	2,225.8	2,201.2	6.0	6.3	-143.82	-299.5	-71.5	460.8	451.1	9.65	47.762		
2,400.0	2,381.3	2,322.7	2,295.9	6.2	6.7	-143.22	-318.9	-76.7	485.1	475.0	10.08	48.107		

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 State 3D-16H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Reference Site:</b>	S16-T3N-R68W (State)	<b>MD Reference:</b>	WELL @ 5072.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	State 3D-16H	<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

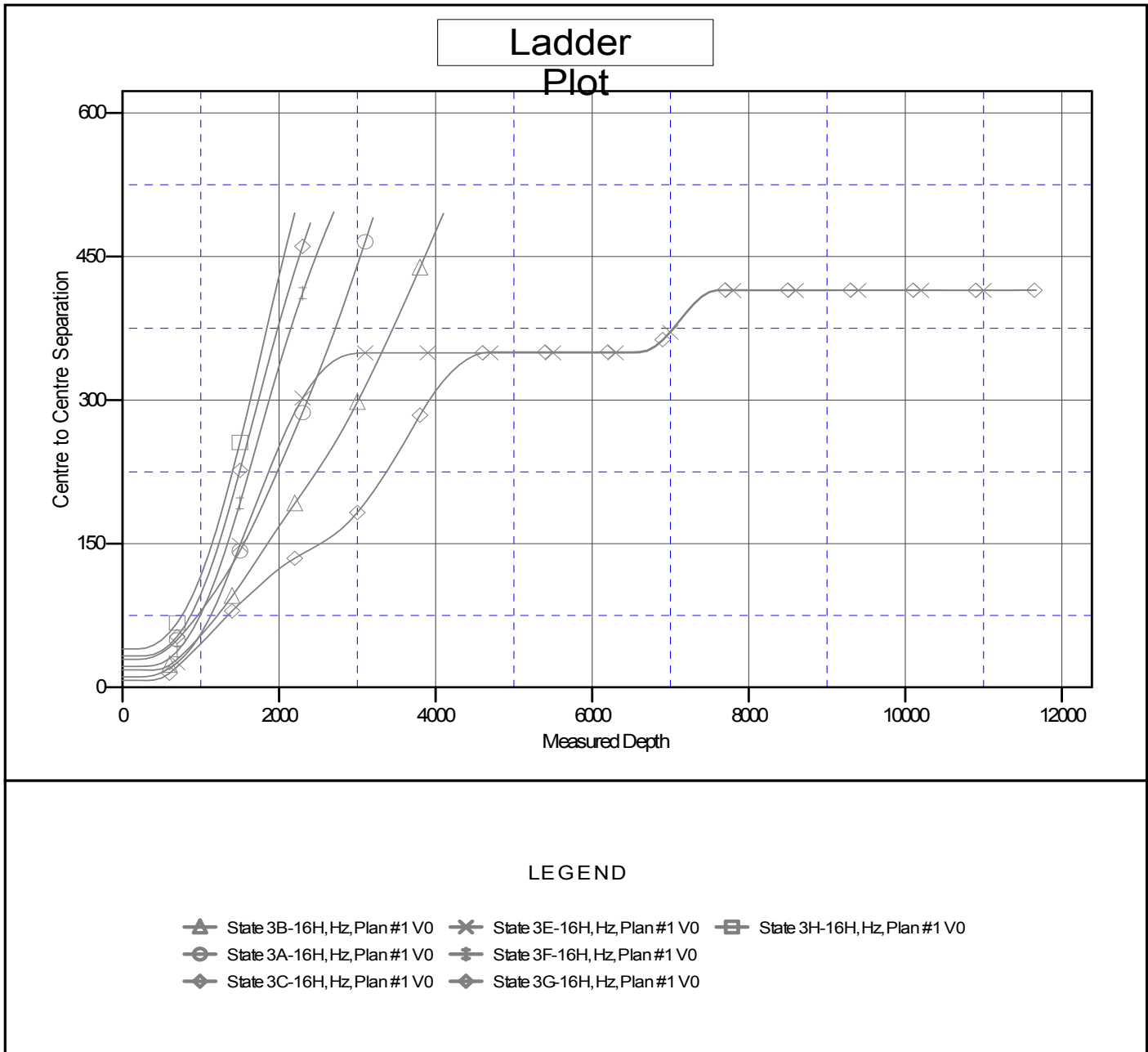
Offset Design													Offset Site Error:	0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference															
Offset				Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-180.00	-40.1	0.0	40.1						
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-40.1	0.0	40.1	39.8	0.30	131.949			
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-40.1	0.0	40.1	39.4	0.65	61.388	CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	-100.95	-40.9	-0.2	41.1	40.1	1.00	41.017			
400.0	400.0	398.5	398.5	0.7	0.7	-103.55	-43.4	-0.6	44.2	42.8	1.35	32.609			
500.0	499.9	497.6	497.4	0.9	0.9	-107.13	-47.7	-1.5	49.5	47.8	1.72	28.851			
600.0	599.7	596.3	596.0	1.1	1.1	-111.00	-53.5	-2.6	57.2	55.1	2.09	27.397			
700.0	699.4	694.8	694.1	1.3	1.3	-114.63	-61.0	-4.0	67.3	64.9	2.47	27.229	SF		
800.0	798.9	792.7	791.6	1.5	1.5	-124.86	-70.2	-5.8	80.4	77.6	2.87	28.048			
900.0	898.4	890.0	888.3	1.8	1.7	-132.26	-80.8	-7.8	96.8	93.5	3.27	29.596			
1,000.0	997.6	986.5	984.1	2.0	2.0	-137.63	-93.0	-10.1	116.4	112.7	3.68	31.593			
1,100.0	1,096.7	1,082.1	1,078.6	2.3	2.3	-141.55	-106.6	-12.8	139.0	134.9	4.10	33.875			
1,200.0	1,195.5	1,176.6	1,171.9	2.6	2.6	-144.47	-121.6	-15.6	164.6	160.1	4.53	36.341			
1,300.0	1,294.1	1,270.0	1,263.8	2.9	2.9	-146.52	-137.9	-18.8	193.3	188.3	4.97	38.921			
1,400.0	1,392.6	1,362.3	1,354.4	3.2	3.2	-146.33	-155.5	-22.1	223.9	218.5	5.42	41.344			
1,500.0	1,491.1	1,453.8	1,443.8	3.6	3.6	-146.01	-174.3	-25.7	255.8	250.0	5.87	43.566			
1,600.0	1,589.6	1,544.5	1,532.2	3.9	4.0	-145.60	-194.3	-29.6	289.1	282.7	6.34	45.626			
1,700.0	1,688.1	1,634.2	1,619.2	4.3	4.4	-145.14	-215.4	-33.6	323.6	316.8	6.80	47.555			
1,800.0	1,786.5	1,724.2	1,706.3	4.6	4.8	-144.64	-238.0	-37.9	359.3	352.0	7.28	49.361			
1,900.0	1,885.1	1,817.5	1,796.4	4.9	5.2	-144.29	-261.7	-42.5	395.2	387.4	7.77	50.872			
2,000.0	1,983.9	1,911.2	1,886.9	5.2	5.7	-143.97	-285.5	-47.0	429.9	421.6	8.25	52.096			
2,100.0	2,082.9	2,005.4	1,977.9	5.5	6.1	-143.59	-309.4	-51.6	463.3	454.6	8.73	53.098			
2,200.0	2,182.2	2,099.9	2,069.2	5.8	6.5	-143.16	-333.5	-56.2	495.4	486.2	9.19	53.925			

## Anticollision Report

<b>Company:</b> EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b> Well State 3D-16H	
<b>Project:</b> DJ Wattenberg	<b>TVD Reference:</b> WELL @ 5072.0ft (Original Well Elev)	
<b>Reference Site:</b> S16-T3N-R68W (State)	<b>MD Reference:</b> WELL @ 5072.0ft (Original Well Elev)	
<b>Site Error:</b> 0.0ft	<b>North Reference:</b> True	
<b>Reference Well:</b> State 3D-16H	<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 @ 5072.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: State 3D-16H  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.31°



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