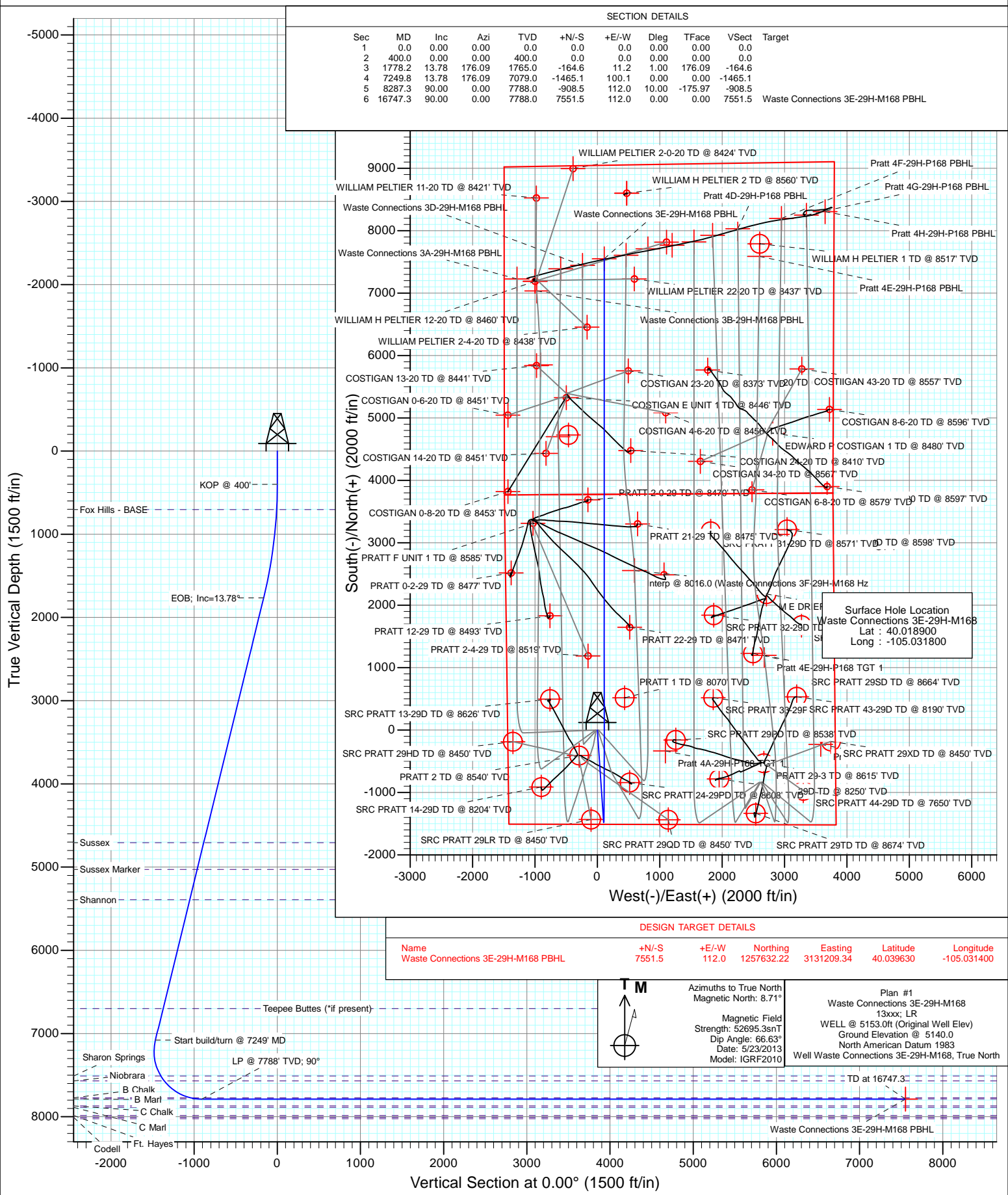




Project: DJ Wattenberg  
 Site: S29-T1N-R68W (Pratt/Waste Connections)  
 Well: Waste Connections 3E-29H-M168  
 Wellbore: Hz  
 Design: Plan #1

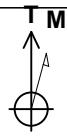


SECTION DETAILS

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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1778.2	13.78	176.09	1765.0	-164.6	11.2	1.00	176.09	-164.6	
4	7249.8	13.78	176.09	7079.0	-1465.1	100.1	0.00	0.00	-1465.1	
5	8287.3	90.00	0.00	7788.0	-908.5	112.0	10.00	-175.97	-908.5	
6	16747.3	90.00	0.00	7788.0	7551.5	112.0	0.00	0.00	7551.5	Waste Connections 3E-29H-M168 PBHL

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Waste Connections 3E-29H-M168 PBHL	7551.5	112.0	1257632.22	3131209.34	40.039630	-105.031400



Azimuths to True North  
 Magnetic North: 8.71°  
 Magnetic Field  
 Strength: 52695.3snT  
 Dip Angle: 66.63°  
 Date: 5/23/2013  
 Model: IGRF2010

Plan #1  
 Waste Connections 3E-29H-M168  
 13xxx; LR  
 WELL @ 5153.0ft (Original Well Elev)  
 Ground Elevation @ 5140.0  
 North American Datum 1983  
 Well Waste Connections 3E-29H-M168, True North

Vertical Section at 0.00° (1500 ft/in)

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<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>	S29-T1N-R68W (Pratt/Waste Connections)				
<b>Site Position:</b>		<b>Northing:</b>	1,249,256.24 ft	<b>Latitude:</b>	40.016600
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,133,726.79 ft	<b>Longitude:</b>	-105.022570
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.31 °

<b>Well</b>	Waste Connections 3E-29H-M168					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,250,080.26 ft	<b>Latitude:</b>	40.018900
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,131,137.21 ft	<b>Longitude:</b>	-105.031800
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,140.0 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>
	IGRF2010	5/23/2013	(°)	(°)	(nT)
			8.71	66.63	52,695

<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	0.00

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,778.2	13.78	176.09	1,765.0	-164.6	11.2	1.00	1.00	0.00	176.09	
7,249.8	13.78	176.09	7,079.0	-1,465.1	100.1	0.00	0.00	0.00	0.00	
8,287.3	90.00	0.00	7,788.0	-908.5	112.0	10.00	7.35	-16.97	-175.97	
16,747.3	90.00	0.00	7,788.0	7,551.5	112.0	0.00	0.00	0.00	0.00	Waste Connections 3I

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	1.00	176.09	500.0	-0.9	0.1	-0.9	1.00	1.00	
600.0	2.00	176.09	600.0	-3.5	0.2	-3.5	1.00	1.00	
700.0	3.00	176.09	699.9	-7.8	0.5	-7.8	1.00	1.00	
703.1	3.03	176.09	703.0	-8.0	0.5	-8.0	1.00	1.00	Fox Hills - BASE
800.0	4.00	176.09	799.7	-13.9	1.0	-13.9	1.00	1.00	
900.0	5.00	176.09	899.4	-21.8	1.5	-21.8	1.00	1.00	
1,000.0	6.00	176.09	998.9	-31.3	2.1	-31.3	1.00	1.00	
1,100.0	7.00	176.09	1,098.3	-42.6	2.9	-42.6	1.00	1.00	
1,200.0	8.00	176.09	1,197.4	-55.6	3.8	-55.6	1.00	1.00	
1,300.0	9.00	176.09	1,296.3	-70.4	4.8	-70.4	1.00	1.00	
1,400.0	10.00	176.09	1,394.9	-86.8	5.9	-86.8	1.00	1.00	
1,500.0	11.00	176.09	1,493.3	-105.0	7.2	-105.0	1.00	1.00	
1,600.0	12.00	176.09	1,591.2	-124.9	8.5	-124.9	1.00	1.00	
1,700.0	13.00	176.09	1,688.9	-146.5	10.0	-146.5	1.00	1.00	
1,778.2	13.78	176.09	1,765.0	-164.6	11.2	-164.6	1.00	1.00	EOB; Inc=13.78°
1,800.0	13.78	176.09	1,786.1	-169.8	11.6	-169.8	0.00	0.00	
1,900.0	13.78	176.09	1,883.2	-193.5	13.2	-193.5	0.00	0.00	
2,000.0	13.78	176.09	1,980.4	-217.3	14.9	-217.3	0.00	0.00	
2,100.0	13.78	176.09	2,077.5	-241.1	16.5	-241.1	0.00	0.00	
2,200.0	13.78	176.09	2,174.6	-264.8	18.1	-264.8	0.00	0.00	
2,300.0	13.78	176.09	2,271.7	-288.6	19.7	-288.6	0.00	0.00	
2,400.0	13.78	176.09	2,368.8	-312.4	21.4	-312.4	0.00	0.00	
2,500.0	13.78	176.09	2,466.0	-336.1	23.0	-336.1	0.00	0.00	
2,600.0	13.78	176.09	2,563.1	-359.9	24.6	-359.9	0.00	0.00	
2,700.0	13.78	176.09	2,660.2	-383.7	26.2	-383.7	0.00	0.00	
2,800.0	13.78	176.09	2,757.3	-407.4	27.8	-407.4	0.00	0.00	
2,900.0	13.78	176.09	2,854.4	-431.2	29.5	-431.2	0.00	0.00	
3,000.0	13.78	176.09	2,951.6	-455.0	31.1	-455.0	0.00	0.00	
3,100.0	13.78	176.09	3,048.7	-478.7	32.7	-478.7	0.00	0.00	
3,200.0	13.78	176.09	3,145.8	-502.5	34.3	-502.5	0.00	0.00	
3,300.0	13.78	176.09	3,242.9	-526.3	36.0	-526.3	0.00	0.00	
3,400.0	13.78	176.09	3,340.1	-550.0	37.6	-550.0	0.00	0.00	
3,500.0	13.78	176.09	3,437.2	-573.8	39.2	-573.8	0.00	0.00	
3,600.0	13.78	176.09	3,534.3	-597.6	40.8	-597.6	0.00	0.00	
3,700.0	13.78	176.09	3,631.4	-621.4	42.5	-621.4	0.00	0.00	
3,800.0	13.78	176.09	3,728.5	-645.1	44.1	-645.1	0.00	0.00	
3,900.0	13.78	176.09	3,825.7	-668.9	45.7	-668.9	0.00	0.00	
4,000.0	13.78	176.09	3,922.8	-692.7	47.3	-692.7	0.00	0.00	
4,100.0	13.78	176.09	4,019.9	-716.4	49.0	-716.4	0.00	0.00	
4,200.0	13.78	176.09	4,117.0	-740.2	50.6	-740.2	0.00	0.00	
4,300.0	13.78	176.09	4,214.1	-764.0	52.2	-764.0	0.00	0.00	
4,400.0	13.78	176.09	4,311.3	-787.7	53.8	-787.7	0.00	0.00	
4,500.0	13.78	176.09	4,408.4	-811.5	55.5	-811.5	0.00	0.00	
4,600.0	13.78	176.09	4,505.5	-835.3	57.1	-835.3	0.00	0.00	
4,700.0	13.78	176.09	4,602.6	-859.0	58.7	-859.0	0.00	0.00	
4,800.0	13.78	176.09	4,699.7	-882.8	60.3	-882.8	0.00	0.00	
4,806.4	13.78	176.09	4,706.0	-884.3	60.4	-884.3	0.00	0.00	Sussex

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<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
4,900.0	13.78	176.09	4,796.9	-906.6	62.0	-906.6	0.00	0.00	
5,000.0	13.78	176.09	4,894.0	-930.3	63.6	-930.3	0.00	0.00	
5,100.0	13.78	176.09	4,991.1	-954.1	65.2	-954.1	0.00	0.00	
5,138.0	13.78	176.09	5,028.0	-963.1	65.8	-963.1	0.00	0.00	Sussex Marker
5,200.0	13.78	176.09	5,088.2	-977.9	66.8	-977.9	0.00	0.00	
5,300.0	13.78	176.09	5,185.3	-1,001.6	68.5	-1,001.6	0.00	0.00	
5,400.0	13.78	176.09	5,282.5	-1,025.4	70.1	-1,025.4	0.00	0.00	
5,500.0	13.78	176.09	5,379.6	-1,049.2	71.7	-1,049.2	0.00	0.00	
5,511.8	13.78	176.09	5,391.0	-1,052.0	71.9	-1,052.0	0.00	0.00	Shannon
5,600.0	13.78	176.09	5,476.7	-1,072.9	73.3	-1,072.9	0.00	0.00	
5,700.0	13.78	176.09	5,573.8	-1,096.7	75.0	-1,096.7	0.00	0.00	
5,800.0	13.78	176.09	5,670.9	-1,120.5	76.6	-1,120.5	0.00	0.00	
5,900.0	13.78	176.09	5,768.1	-1,144.3	78.2	-1,144.3	0.00	0.00	
6,000.0	13.78	176.09	5,865.2	-1,168.0	79.8	-1,168.0	0.00	0.00	
6,100.0	13.78	176.09	5,962.3	-1,191.8	81.5	-1,191.8	0.00	0.00	
6,200.0	13.78	176.09	6,059.4	-1,215.6	83.1	-1,215.6	0.00	0.00	
6,300.0	13.78	176.09	6,156.6	-1,239.3	84.7	-1,239.3	0.00	0.00	
6,400.0	13.78	176.09	6,253.7	-1,263.1	86.3	-1,263.1	0.00	0.00	
6,500.0	13.78	176.09	6,350.8	-1,286.9	88.0	-1,286.9	0.00	0.00	
6,600.0	13.78	176.09	6,447.9	-1,310.6	89.6	-1,310.6	0.00	0.00	
6,700.0	13.78	176.09	6,545.0	-1,334.4	91.2	-1,334.4	0.00	0.00	
6,800.0	13.78	176.09	6,642.2	-1,358.2	92.8	-1,358.2	0.00	0.00	
6,859.6	13.78	176.09	6,700.0	-1,372.3	93.8	-1,372.3	0.00	0.00	Teepee Buttes (*if present)
6,900.0	13.78	176.09	6,739.3	-1,381.9	94.5	-1,381.9	0.00	0.00	
7,000.0	13.78	176.09	6,836.4	-1,405.7	96.1	-1,405.7	0.00	0.00	
7,100.0	13.78	176.09	6,933.5	-1,429.5	97.7	-1,429.5	0.00	0.00	
7,200.0	13.78	176.09	7,030.6	-1,453.2	99.3	-1,453.2	0.00	0.00	
7,249.8	13.78	176.09	7,079.0	-1,465.1	100.1	-1,465.1	0.00	0.00	Start build/turn @ 7249' MD
7,300.0	8.78	173.78	7,128.2	-1,474.9	101.0	-1,474.9	10.00	-9.96	
7,400.0	1.59	36.92	7,227.9	-1,481.3	102.6	-1,481.3	10.00	-7.18	
7,500.0	11.32	4.80	7,327.1	-1,470.4	104.3	-1,470.4	10.00	9.72	
7,600.0	21.30	2.46	7,423.0	-1,442.4	105.9	-1,442.4	10.00	9.98	
7,697.0	30.99	1.60	7,510.0	-1,399.7	107.3	-1,399.7	10.00	9.99	Sharon Springs
7,700.0	31.29	1.58	7,512.5	-1,398.2	107.4	-1,398.2	10.00	9.99	
7,767.5	38.03	1.23	7,568.0	-1,359.9	108.3	-1,359.9	10.00	10.00	Niobrara
7,800.0	41.28	1.09	7,593.0	-1,339.1	108.7	-1,339.1	10.00	10.00	
7,900.0	51.28	0.77	7,662.1	-1,267.0	109.9	-1,267.0	10.00	10.00	
8,000.0	61.28	0.53	7,717.5	-1,183.9	110.8	-1,183.9	10.00	10.00	
8,100.0	71.28	0.32	7,757.7	-1,092.5	111.5	-1,092.5	10.00	10.00	
8,155.8	76.86	0.22	7,773.0	-1,038.8	111.7	-1,038.8	10.00	10.00	B Chalk
8,200.0	81.28	0.15	7,781.4	-995.4	111.9	-995.4	10.00	10.00	
8,219.5	83.23	0.11	7,784.0	-976.1	111.9	-976.1	10.00	10.00	B Marl
8,287.3	90.00	0.00	7,788.0	-908.5	112.0	-908.5	10.00	10.00	LP @ 7788' TVD; 90°
8,300.0	90.00	0.00	7,788.0	-895.8	112.0	-895.8	0.00	0.00	
8,400.0	90.00	0.00	7,788.0	-795.8	112.0	-795.8	0.00	0.00	
8,500.0	90.00	0.00	7,788.0	-695.8	112.0	-695.8	0.00	0.00	
8,600.0	90.00	0.00	7,788.0	-595.8	112.0	-595.8	0.00	0.00	
8,700.0	90.00	0.00	7,788.0	-495.8	112.0	-495.8	0.00	0.00	
8,800.0	90.00	0.00	7,788.0	-395.8	112.0	-395.8	0.00	0.00	
8,900.0	90.00	0.00	7,788.0	-295.8	112.0	-295.8	0.00	0.00	
9,000.0	90.00	0.00	7,788.0	-195.8	112.0	-195.8	0.00	0.00	
9,100.0	90.00	0.00	7,788.0	-95.8	112.0	-95.8	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<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
9,200.0	90.00	0.00	7,788.0	4.2	112.0	4.2	0.00	0.00	
9,300.0	90.00	0.00	7,788.0	104.2	112.0	104.2	0.00	0.00	
9,400.0	90.00	0.00	7,788.0	204.2	112.0	204.2	0.00	0.00	
9,500.0	90.00	0.00	7,788.0	304.2	112.0	304.2	0.00	0.00	
9,600.0	90.00	0.00	7,788.0	404.2	112.0	404.2	0.00	0.00	
9,700.0	90.00	0.00	7,788.0	504.2	112.0	504.2	0.00	0.00	
9,800.0	90.00	0.00	7,788.0	604.2	112.0	604.2	0.00	0.00	
9,900.0	90.00	0.00	7,788.0	704.2	112.0	704.2	0.00	0.00	
10,000.0	90.00	0.00	7,788.0	804.2	112.0	804.2	0.00	0.00	
10,100.0	90.00	0.00	7,788.0	904.2	112.0	904.2	0.00	0.00	
10,200.0	90.00	0.00	7,788.0	1,004.2	112.0	1,004.2	0.00	0.00	
10,300.0	90.00	0.00	7,788.0	1,104.2	112.0	1,104.2	0.00	0.00	
10,400.0	90.00	0.00	7,788.0	1,204.2	112.0	1,204.2	0.00	0.00	
10,500.0	90.00	0.00	7,788.0	1,304.2	112.0	1,304.2	0.00	0.00	
10,600.0	90.00	0.00	7,788.0	1,404.2	112.0	1,404.2	0.00	0.00	
10,700.0	90.00	0.00	7,788.0	1,504.2	112.0	1,504.2	0.00	0.00	
10,800.0	90.00	0.00	7,788.0	1,604.2	112.0	1,604.2	0.00	0.00	
10,900.0	90.00	0.00	7,788.0	1,704.2	112.0	1,704.2	0.00	0.00	
11,000.0	90.00	0.00	7,788.0	1,804.2	112.0	1,804.2	0.00	0.00	
11,100.0	90.00	0.00	7,788.0	1,904.2	112.0	1,904.2	0.00	0.00	
11,200.0	90.00	0.00	7,788.0	2,004.2	112.0	2,004.2	0.00	0.00	
11,300.0	90.00	0.00	7,788.0	2,104.2	112.0	2,104.2	0.00	0.00	
11,400.0	90.00	0.00	7,788.0	2,204.2	112.0	2,204.2	0.00	0.00	
11,500.0	90.00	0.00	7,788.0	2,304.2	112.0	2,304.2	0.00	0.00	
11,600.0	90.00	0.00	7,788.0	2,404.2	112.0	2,404.2	0.00	0.00	
11,700.0	90.00	0.00	7,788.0	2,504.2	112.0	2,504.2	0.00	0.00	
11,800.0	90.00	0.00	7,788.0	2,604.2	112.0	2,604.2	0.00	0.00	
11,900.0	90.00	0.00	7,788.0	2,704.2	112.0	2,704.2	0.00	0.00	
12,000.0	90.00	0.00	7,788.0	2,804.2	112.0	2,804.2	0.00	0.00	
12,100.0	90.00	0.00	7,788.0	2,904.2	112.0	2,904.2	0.00	0.00	
12,200.0	90.00	0.00	7,788.0	3,004.2	112.0	3,004.2	0.00	0.00	
12,300.0	90.00	0.00	7,788.0	3,104.2	112.0	3,104.2	0.00	0.00	
12,400.0	90.00	0.00	7,788.0	3,204.2	112.0	3,204.2	0.00	0.00	
12,500.0	90.00	0.00	7,788.0	3,304.2	112.0	3,304.2	0.00	0.00	
12,600.0	90.00	0.00	7,788.0	3,404.2	112.0	3,404.2	0.00	0.00	
12,700.0	90.00	0.00	7,788.0	3,504.2	112.0	3,504.2	0.00	0.00	
12,800.0	90.00	0.00	7,788.0	3,604.2	112.0	3,604.2	0.00	0.00	
12,900.0	90.00	0.00	7,788.0	3,704.2	112.0	3,704.2	0.00	0.00	
13,000.0	90.00	0.00	7,788.0	3,804.2	112.0	3,804.2	0.00	0.00	
13,100.0	90.00	0.00	7,788.0	3,904.2	112.0	3,904.2	0.00	0.00	
13,200.0	90.00	0.00	7,788.0	4,004.2	112.0	4,004.2	0.00	0.00	
13,300.0	90.00	0.00	7,788.0	4,104.2	112.0	4,104.2	0.00	0.00	
13,400.0	90.00	0.00	7,788.0	4,204.2	112.0	4,204.2	0.00	0.00	
13,500.0	90.00	0.00	7,788.0	4,304.2	112.0	4,304.2	0.00	0.00	
13,600.0	90.00	0.00	7,788.0	4,404.2	112.0	4,404.2	0.00	0.00	
13,700.0	90.00	0.00	7,788.0	4,504.2	112.0	4,504.2	0.00	0.00	
13,800.0	90.00	0.00	7,788.0	4,604.2	112.0	4,604.2	0.00	0.00	
13,900.0	90.00	0.00	7,788.0	4,704.2	112.0	4,704.2	0.00	0.00	
14,000.0	90.00	0.00	7,788.0	4,804.2	112.0	4,804.2	0.00	0.00	
14,100.0	90.00	0.00	7,788.0	4,904.2	112.0	4,904.2	0.00	0.00	
14,200.0	90.00	0.00	7,788.0	5,004.2	112.0	5,004.2	0.00	0.00	
14,300.0	90.00	0.00	7,788.0	5,104.2	112.0	5,104.2	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<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
14,400.0	90.00	0.00	7,788.0	5,204.2	112.0	5,204.2	0.00	0.00	
14,500.0	90.00	0.00	7,788.0	5,304.2	112.0	5,304.2	0.00	0.00	
14,600.0	90.00	0.00	7,788.0	5,404.2	112.0	5,404.2	0.00	0.00	
14,700.0	90.00	0.00	7,788.0	5,504.2	112.0	5,504.2	0.00	0.00	
14,800.0	90.00	0.00	7,788.0	5,604.2	112.0	5,604.2	0.00	0.00	
14,900.0	90.00	0.00	7,788.0	5,704.2	112.0	5,704.2	0.00	0.00	
15,000.0	90.00	0.00	7,788.0	5,804.2	112.0	5,804.2	0.00	0.00	
15,100.0	90.00	0.00	7,788.0	5,904.2	112.0	5,904.2	0.00	0.00	
15,200.0	90.00	0.00	7,788.0	6,004.2	112.0	6,004.2	0.00	0.00	
15,300.0	90.00	0.00	7,788.0	6,104.2	112.0	6,104.2	0.00	0.00	
15,400.0	90.00	0.00	7,788.0	6,204.2	112.0	6,204.2	0.00	0.00	
15,500.0	90.00	0.00	7,788.0	6,304.2	112.0	6,304.2	0.00	0.00	
15,600.0	90.00	0.00	7,788.0	6,404.2	112.0	6,404.2	0.00	0.00	
15,700.0	90.00	0.00	7,788.0	6,504.2	112.0	6,504.2	0.00	0.00	
15,800.0	90.00	0.00	7,788.0	6,604.2	112.0	6,604.2	0.00	0.00	
15,900.0	90.00	0.00	7,788.0	6,704.2	112.0	6,704.2	0.00	0.00	
16,000.0	90.00	0.00	7,788.0	6,804.2	112.0	6,804.2	0.00	0.00	
16,100.0	90.00	0.00	7,788.0	6,904.2	112.0	6,904.2	0.00	0.00	
16,200.0	90.00	0.00	7,788.0	7,004.2	112.0	7,004.2	0.00	0.00	
16,300.0	90.00	0.00	7,788.0	7,104.2	112.0	7,104.2	0.00	0.00	
16,400.0	90.00	0.00	7,788.0	7,204.2	112.0	7,204.2	0.00	0.00	
16,500.0	90.00	0.00	7,788.0	7,304.2	112.0	7,304.2	0.00	0.00	
16,600.0	90.00	0.00	7,788.0	7,404.2	112.0	7,404.2	0.00	0.00	
16,700.0	90.00	0.00	7,788.0	7,504.2	112.0	7,504.2	0.00	0.00	
16,747.3	90.00	0.00	7,788.0	7,551.5	112.0	7,551.5	0.00	0.00	TD at 16747.3 - Waste Connections 3E-29H-M1

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Waste Connections 3E-2 - hit/miss target - Shape - Point	0.00	0.00	7,788.0	7,551.5	112.0	1,257,632.22	3,131,209.34	40.039630	-105.031400

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
703.1	703.0	Fox Hills - BASE				
4,806.4	4,706.0	Sussex				
5,138.0	5,028.0	Sussex Marker				
5,511.8	5,391.0	Shannon				
6,859.6	6,700.0	Teepee Buttes (*if present)				
7,697.0	7,510.0	Sharon Springs				
7,767.5	7,568.0	Niobrara				
8,155.8	7,773.0	B Chalk				
8,219.5	7,784.0	B Marl				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Waste Connections 3E-29H-M168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
1,778.2	1,765.0	-164.6	11.2	EOB; Inc=13.78°
7,249.8	7,079.0	-1,465.1	100.1	Start build/turn @ 7249' MD
8,287.3	7,788.0	-908.5	112.0	LP @ 7788' TVD; 90°
16,747.3	7,788.0	7,551.5	112.0	TD at 16747.3

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

**DJ Wattenberg**

**S29-T1N-R68W (Pratt/Waste Connections)**

**Waste Connections 3E-29H-M168**

**Hz**

**Plan #1**

## **Anticollision Report**

**30 May, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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>	5/30/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	16,747.3	Plan #1 (Hz)	MWD	Geolink MWD	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
COSTIGAN 0-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 0-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 13-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 14-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 23-20 (EXISTING) - ENCANA WELL - PLAN	14,951.4	7,813.5	383.6	264.5	3.221	CC, ES, SF
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA	13,666.9	7,944.0	412.2	309.3	4.006	CC, ES
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA	13,700.0	7,944.2	413.5	310.1	3.997	SF
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO						Out of range
COSTIGAN H UNIT 1 (EXISTING) - VESSELS WELL - N						Out of range
EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL						Out of range
M E DRIER 1 (EXISTING) - SYNERGY WELL - NO SUR						Out of range
PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEY	9,712.4	7,777.0	325.2	292.3	9.879	CC, ES, SF
PRATT 12-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY	2,710.8	2,658.7	318.4	305.4	24.408	CC, ES
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY	8,787.8	7,776.0	403.3	372.9	13.294	SF
PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEY	12,877.5	7,864.4	274.2	191.0	3.297	CC, ES
PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEY	12,900.0	7,864.8	275.1	191.5	3.293	SF
PRATT 21-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS	10,862.6	8,343.2	389.9	320.6	5.625	CC, ES
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS	10,900.0	8,342.3	391.7	321.8	5.604	SF
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON	10,383.3	8,230.1	260.4	191.7	3.789	CC, ES
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON	10,400.0	8,230.1	261.0	192.0	3.784	SF
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV						Out of range
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1						Out of range
Pratt 4C-29H-P168 - Hz - Plan #1						Out of range
Pratt 4D-29H-P168 - Hz - Plan #1						Out of range
Pratt 4E-29H-P168 - Hz - Plan #1						Out of range
Pratt 4F-29H-P168 - Hz - Plan #1						Out of range
Pratt 4G-29H-P168 - Hz - Plan #1						Out of range
PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SU						Out of range
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S	1,403.5	1,400.3	426.9	419.6	58.734	CC, ES
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S	2,000.0	1,939.3	496.7	485.7	45.060	SF
SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -	2,948.8	2,908.7	294.9	281.8	22.468	CC, ES
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -	8,300.0	7,900.2	402.9	366.0	10.928	SF
SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA	7,060.4	7,007.3	198.1	148.3	3.980	CC, ES
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA	7,100.0	7,045.7	198.3	148.4	3.978	SF
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	2,086.0	2,009.1	461.1	451.0	45.823	CC
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	2,100.0	2,022.5	461.1	451.0	45.583	ES
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL	2,800.0	2,696.7	499.5	487.1	40.189	SF
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU						Out of range
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU						Out of range

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA						Out of range
SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P						Out of range
Waste Connections 3A-29H-M168 - Hz - Plan #1	200.0	200.0	39.2	38.6	60.070	CC, ES
Waste Connections 3A-29H-M168 - Hz - Plan #1	700.0	695.2	61.7	59.3	25.677	SF
Waste Connections 3B-29H-M168 - Hz - Plan #1	300.0	300.0	30.8	29.8	30.752	CC, ES
Waste Connections 3B-29H-M168 - Hz - Plan #1	700.0	697.8	42.6	40.2	17.595	SF
Waste Connections 3C-29H-M168 - Hz - Plan #1	400.0	400.0	19.6	18.3	14.513	CC
Waste Connections 3C-29H-M168 - Hz - Plan #1	500.0	499.9	19.8	18.1	11.650	ES
Waste Connections 3C-29H-M168 - Hz - Plan #1	1,800.0	1,798.0	60.8	51.9	6.857	SF
Waste Connections 3D-29H-M168 - Hz - Plan #1	400.0	400.0	11.2	9.9	8.293	CC
Waste Connections 3D-29H-M168 - Hz - Plan #1	500.0	500.0	11.3	9.6	6.643	ES
Waste Connections 3D-29H-M168 - Hz - Plan #1	16,624.7	15,433.4	417.7	192.9	1.858	SF
Waste Connections 3F-29H-M168 - Hz - Plan #1	300.0	300.0	8.4	7.4	8.387	CC
Waste Connections 3F-29H-M168 - Hz - Plan #1	400.0	399.9	8.7	7.4	6.447	ES
Waste Connections 3F-29H-M168 - Hz - Plan #1	16,747.3	16,931.1	417.1	188.4	1.824	SF
Waste Connections 3G-29H-M168 - Hz - Plan #1	166.3	167.3	19.6	19.1	36.511	CC
Waste Connections 3G-29H-M168 - Hz - Plan #1	200.0	201.0	19.6	19.0	29.955	ES
Waste Connections 3G-29H-M168 - Hz - Plan #1	700.0	699.0	34.7	32.2	14.230	SF
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -						Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - P						Out of range
WILLIAM H PELTIER 2 (EXISTING) - ENCANA WELL - S						Out of range
WILLIAM PELTIER 11-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 12-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	16,737.7	11,239.7	136.3	91.6	3.046	CC, ES, SF
WILLIAM PELTIER 2-0-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL	16,423.1	7,927.7	481.6	338.2	3.359	CC, ES, SF
WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL	15,650.8	7,826.0	277.2	142.0	2.051	CC, ES, SF
WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL						Out of range

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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		
14,700.0	7,788.0	7,813.5	7,723.0	99.8	22.8	90.00	5,755.6	495.6	458.6	343.9	114.73	3.997			
14,800.0	7,788.0	7,813.5	7,723.0	101.5	22.8	90.00	5,755.6	495.6	412.4	295.9	116.46	3.541			
14,900.0	7,788.0	7,813.5	7,723.0	103.2	22.8	90.00	5,755.6	495.6	387.0	268.8	118.20	3.274			
14,951.4	7,788.0	7,813.5	7,723.0	104.1	22.8	90.00	5,755.6	495.6	383.6	264.5	119.09	3.221	CC, ES, SF		
15,000.0	7,788.0	7,813.5	7,723.0	105.0	22.8	90.00	5,755.6	495.6	386.7	266.7	119.93	3.224			
15,100.0	7,788.0	7,813.5	7,723.0	106.7	22.8	90.00	5,755.6	495.6	411.4	289.7	121.66	3.381			
15,200.0	7,788.0	7,813.5	7,723.0	108.4	22.8	90.00	5,755.6	495.6	457.1	333.7	123.40	3.704			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: 1173-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		
13,400.0	7,788.0	7,941.8	7,714.5	77.3	27.8	88.68	4,471.1	524.1	491.1	392.8	98.30	4.996			
13,500.0	7,788.0	7,942.6	7,715.3	79.1	27.8	88.79	4,471.1	524.1	444.7	344.7	100.02	4.446			
13,600.0	7,788.0	7,943.4	7,716.1	80.8	27.8	88.91	4,471.1	524.1	417.6	315.9	101.74	4.105			
13,666.9	7,788.0	7,944.0	7,716.7	81.9	27.8	88.98	4,471.1	524.2	412.2	309.3	102.89	4.006	CC, ES		
13,700.0	7,788.0	7,944.2	7,716.9	82.5	27.8	89.02	4,471.1	524.2	413.5	310.1	103.46	3.997	SF		
13,800.0	7,788.0	7,945.0	7,717.7	84.2	27.8	89.13	4,471.1	524.2	433.2	328.0	105.19	4.118			
13,900.0	7,788.0	7,945.8	7,718.5	85.9	27.8	89.24	4,471.1	524.2	473.6	366.6	106.91	4.429			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: 8070-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		
9,400.0	7,788.0	7,777.0	7,777.0	17.0	13.6	90.00	516.6	437.2	450.9	420.5	30.42	14.825			
9,500.0	7,788.0	7,777.0	7,777.0	17.6	13.6	90.00	516.6	437.2	388.4	357.3	31.07	12.501			
9,600.0	7,788.0	7,777.0	7,777.0	18.4	13.6	90.00	516.6	437.2	344.1	312.2	31.87	10.797			
9,700.0	7,788.0	7,777.0	7,777.0	19.3	13.6	90.00	516.6	437.2	325.4	292.6	32.79	9.925			
9,712.4	7,788.0	7,777.0	7,777.0	19.4	13.6	90.00	516.6	437.2	325.2	292.3	32.92	9.879	CC, ES, SF		
9,800.0	7,788.0	7,777.0	7,777.0	20.3	13.6	90.00	516.6	437.2	336.8	303.0	33.83	9.957			
9,900.0	7,788.0	7,777.0	7,777.0	21.5	13.6	90.00	516.6	437.2	375.4	340.5	34.95	10.741			
10,000.0	7,788.0	7,777.0	7,777.0	22.7	13.6	90.00	516.6	437.2	434.2	398.0	36.16	12.006			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 8540-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		
600.0	600.0	588.0	588.0	1.0	1.0	39.71	-408.0	-291.3	498.6	496.5	2.05	242.960		
700.0	699.9	687.9	687.9	1.2	1.2	40.05	-408.0	-291.3	495.2	492.8	2.40	205.963		
800.0	799.7	787.7	787.7	1.4	1.4	40.54	-408.0	-291.3	490.6	487.8	2.76	177.700		
900.0	899.4	887.4	887.4	1.6	1.5	41.18	-408.0	-291.3	484.6	481.5	3.12	155.201		
1,000.0	998.9	986.9	986.9	1.8	1.7	41.99	-408.0	-291.3	477.4	474.0	3.49	136.708		
1,100.0	1,098.3	1,086.3	1,086.3	2.1	1.9	42.97	-408.0	-291.3	469.1	465.2	3.87	121.118		
1,200.0	1,197.4	1,185.4	1,185.4	2.3	2.1	44.14	-408.0	-291.3	459.6	455.3	4.27	107.705		
1,300.0	1,296.3	1,284.3	1,284.3	2.6	2.2	45.52	-408.0	-291.3	449.0	444.4	4.68	95.979		
1,400.0	1,394.9	1,382.9	1,382.9	2.9	2.4	47.14	-408.0	-291.3	437.6	432.4	5.11	85.600		
1,500.0	1,493.3	1,481.3	1,481.3	3.3	2.6	49.01	-408.0	-291.3	425.3	419.7	5.57	76.328		
1,600.0	1,591.2	1,579.2	1,579.2	3.6	2.8	51.18	-408.0	-291.3	412.3	406.3	6.06	67.998		
1,700.0	1,688.9	1,676.9	1,676.9	4.0	2.9	53.67	-408.0	-291.3	398.9	392.3	6.59	60.496		
1,800.0	1,786.1	1,774.1	1,774.1	4.5	3.1	56.50	-408.0	-291.3	385.3	378.2	7.17	53.775		
1,900.0	1,883.2	1,871.2	1,871.2	4.9	3.3	59.50	-408.0	-291.3	372.4	364.7	7.77	47.959		
2,000.0	1,980.4	1,968.4	1,968.4	5.3	3.4	62.68	-408.0	-291.3	360.7	352.3	8.39	42.988		
2,100.0	2,077.5	2,065.5	2,065.5	5.7	3.6	66.07	-408.0	-291.3	350.1	341.1	9.03	38.754		
2,200.0	2,174.6	2,162.6	2,162.6	6.2	3.8	69.64	-408.0	-291.3	340.9	331.2	9.69	35.166		
2,300.0	2,271.7	2,259.7	2,259.7	6.6	3.9	73.38	-408.0	-291.3	333.1	322.8	10.36	32.147		
2,400.0	2,368.8	2,356.8	2,356.8	7.0	4.1	77.27	-408.0	-291.3	326.9	315.9	11.03	29.628		
2,500.0	2,466.0	2,454.0	2,454.0	7.5	4.3	81.29	-408.0	-291.3	322.4	310.7	11.70	27.553		
2,600.0	2,563.1	2,551.1	2,551.1	7.9	4.5	85.40	-408.0	-291.3	319.5	307.2	12.35	25.870		
2,700.0	2,660.2	2,648.2	2,648.2	8.4	4.6	89.55	-408.0	-291.3	318.4	305.5	12.98	24.533		
2,710.8	2,670.7	2,658.7	2,658.7	8.4	4.6	90.00	-408.0	-291.3	318.4	305.4	13.05	24.408 CC, ES		
2,800.0	2,757.3	2,745.3	2,745.3	8.8	4.8	93.71	-408.0	-291.3	319.1	305.6	13.58	23.502		
2,900.0	2,854.4	2,842.4	2,842.4	9.2	5.0	97.83	-408.0	-291.3	321.6	307.5	14.14	22.740		
3,000.0	2,951.6	2,939.6	2,939.6	9.7	5.1	101.87	-408.0	-291.3	325.8	311.1	14.67	22.212		
3,100.0	3,048.7	3,036.7	3,036.7	10.1	5.3	105.79	-408.0	-291.3	331.6	316.5	15.15	21.887		
3,200.0	3,145.8	3,133.8	3,133.8	10.6	5.5	109.57	-408.0	-291.3	339.1	323.5	15.60	21.739		
3,300.0	3,242.9	3,230.9	3,230.9	11.0	5.6	113.18	-408.0	-291.3	348.0	332.0	16.01	21.742		
3,400.0	3,340.1	3,328.1	3,328.1	11.5	5.8	116.60	-408.0	-291.3	358.3	341.9	16.38	21.873		
3,500.0	3,437.2	3,425.2	3,425.2	11.9	6.0	119.83	-408.0	-291.3	369.8	353.1	16.72	22.113		
3,600.0	3,534.3	3,522.3	3,522.3	12.4	6.1	122.87	-408.0	-291.3	382.5	365.4	17.04	22.443		
3,700.0	3,631.4	3,619.4	3,619.4	12.8	6.3	125.71	-408.0	-291.3	396.1	378.8	17.34	22.849		
3,800.0	3,728.5	3,716.5	3,716.5	13.3	6.5	128.36	-408.0	-291.3	410.8	393.1	17.62	23.315		
3,900.0	3,825.7	3,813.7	3,813.7	13.7	6.7	130.83	-408.0	-291.3	426.2	408.3	17.88	23.831		
4,000.0	3,922.8	3,910.8	3,910.8	14.2	6.8	133.13	-408.0	-291.3	442.4	424.3	18.14	24.387		
4,100.0	4,019.9	4,007.9	4,007.9	14.6	7.0	135.27	-408.0	-291.3	459.3	440.9	18.39	24.973		
4,200.0	4,117.0	4,105.0	4,105.0	15.0	7.2	137.26	-408.0	-291.3	476.7	458.1	18.64	25.581		
4,300.0	4,214.1	4,202.1	4,202.1	15.5	7.3	139.11	-408.0	-291.3	494.7	475.8	18.88	26.207		
8,500.0	7,788.0	7,776.0	7,776.0	19.1	13.6	-90.00	-408.0	-291.3	495.5	462.9	32.52	15.235		
8,600.0	7,788.0	7,776.0	7,776.0	18.2	13.6	-90.00	-408.0	-291.3	444.9	413.2	31.63	14.065		
8,700.0	7,788.0	7,776.0	7,776.0	17.4	13.6	-90.00	-408.0	-291.3	412.7	381.9	30.87	13.370		
8,787.8	7,788.0	7,776.0	7,776.0	16.9	13.6	-90.00	-408.0	-291.3	403.3	372.9	30.34	13.294 SF		
8,800.0	7,788.0	7,776.0	7,776.0	16.8	13.6	-90.00	-408.0	-291.3	403.5	373.2	30.26	13.332		
8,900.0	7,788.0	7,776.0	7,776.0	16.4	13.6	-90.00	-408.0	-291.3	418.6	388.8	29.82	14.037		
9,000.0	7,788.0	7,776.0	7,776.0	16.1	13.6	-90.00	-408.0	-291.3	455.7	426.1	29.56	15.415		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEYS													Offset Well Error:	0.0 ft
Survey Program: 41-MWD														
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	
12,500.0	7,788.0	7,856.8	7,749.4	62.0	21.5	-89.66	3,681.6	-162.3	466.5	389.8	76.72	6.081		
12,600.0	7,788.0	7,858.8	7,751.4	63.7	21.5	-90.08	3,681.6	-162.2	390.1	311.6	78.42	4.974		
12,700.0	7,788.0	7,860.8	7,753.4	65.4	21.5	-90.51	3,681.7	-162.2	326.6	246.5	80.13	4.076		
12,800.0	7,788.0	7,862.8	7,755.4	67.1	21.5	-90.92	3,681.7	-162.1	284.9	203.1	81.84	3.481		
12,877.5	7,788.0	7,864.4	7,757.0	68.4	21.5	-91.24	3,681.8	-162.1	274.2	191.0	83.16	3.297	CC, ES	
12,900.0	7,788.0	7,864.8	7,757.4	68.8	21.5	-91.34	3,681.8	-162.1	275.1	191.5	83.54	3.293	SF	
13,000.0	7,788.0	7,866.8	7,759.3	70.5	21.5	-91.74	3,681.8	-162.0	300.3	215.0	85.25	3.522		
13,100.0	7,788.0	7,868.7	7,761.3	72.2	21.5	-92.15	3,681.8	-162.0	353.0	266.1	86.95	4.060		
13,200.0	7,788.0	7,870.6	7,763.2	73.9	21.5	-92.55	3,681.9	-162.0	423.2	334.6	88.64	4.774		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: 132-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			
10,600.0	7,788.0	8,350.3	7,767.1	31.0	44.6	90.45	1,666.6	502.0	470.1	404.8	65.29	7.200			
10,700.0	7,788.0	8,347.6	7,764.4	32.5	44.6	90.06	1,666.7	502.0	422.5	355.6	66.81	6.324			
10,800.0	7,788.0	8,344.9	7,761.7	34.1	44.6	89.67	1,666.8	501.9	394.9	326.6	68.35	5.778			
10,862.6	7,788.0	8,343.2	7,760.1	35.0	44.6	89.42	1,666.8	501.9	389.9	320.6	69.32	5.625 CC, ES			
10,900.0	7,788.0	8,342.3	7,759.1	35.6	44.6	89.28	1,666.8	501.9	391.7	321.8	69.91	5.604 SF			
11,000.0	7,788.0	8,339.6	7,756.5	37.2	44.6	88.89	1,666.9	501.9	413.4	342.0	71.48	5.784			
11,100.0	7,788.0	8,337.0	7,753.9	38.8	44.6	88.51	1,667.0	501.9	456.5	383.4	73.06	6.248			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
10,000.0	7,788.0	8,230.1	7,751.0	22.7	44.1	-90.00	1,187.6	-148.4	463.4	399.9	63.56	7.292			
10,100.0	7,788.0	8,230.1	7,751.0	23.9	44.1	-90.00	1,187.6	-148.4	384.9	320.0	64.83	5.936			
10,200.0	7,788.0	8,230.1	7,751.0	25.3	44.1	-90.00	1,187.6	-148.4	318.5	252.3	66.17	4.814			
10,300.0	7,788.0	8,230.1	7,751.0	26.7	44.1	-90.00	1,187.6	-148.4	273.4	205.9	67.55	4.048			
10,383.3	7,788.0	8,230.1	7,751.0	27.8	44.1	-90.00	1,187.6	-148.4	260.4	191.7	68.74	3.789 CC, ES			
10,400.0	7,788.0	8,230.1	7,751.0	28.1	44.1	-90.00	1,187.6	-148.4	261.0	192.0	68.98	3.784 SF			
10,500.0	7,788.0	8,230.1	7,751.0	29.5	44.1	-90.00	1,187.6	-148.4	285.4	214.9	70.44	4.051			
10,600.0	7,788.0	8,230.1	7,751.0	31.0	44.1	-90.00	1,187.6	-148.4	338.8	266.8	71.93	4.710			
10,700.0	7,788.0	8,230.1	7,751.0	32.5	44.1	-90.00	1,187.6	-148.4	410.0	336.6	73.44	5.583			
10,800.0	7,788.0	8,230.1	7,751.0	34.1	44.1	-90.00	1,187.6	-148.4	491.4	416.4	74.98	6.553			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - SU													Offset Well Error:	0.0 ft
Survey Program: 248-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		
700.0	699.9	742.2	739.3	1.2	1.6	46.17	-370.9	-327.0	490.4	487.6	2.77	177.092		
800.0	799.7	843.8	838.8	1.4	2.0	49.08	-351.8	-335.3	478.2	474.9	3.32	143.871		
900.0	899.4	938.8	931.3	1.6	2.3	52.32	-332.8	-344.6	466.3	462.4	3.90	119.459		
1,000.0	998.9	1,037.9	1,027.7	1.8	2.8	56.13	-311.9	-354.3	454.4	449.9	4.54	100.069		
1,100.0	1,098.3	1,128.9	1,116.1	2.1	3.2	60.05	-292.2	-363.5	443.7	438.5	5.18	85.569		
1,200.0	1,197.4	1,220.4	1,204.9	2.3	3.6	64.35	-272.3	-373.4	435.1	429.2	5.86	74.232		
1,300.0	1,296.3	1,310.9	1,292.6	2.6	4.0	68.88	-252.8	-383.6	429.2	422.6	6.55	65.473		
1,400.0	1,394.9	1,397.0	1,376.1	2.9	4.4	73.42	-234.5	-394.1	426.9	419.6	7.24	58.946		
1,403.5	1,398.4	1,400.3	1,379.4	3.0	4.4	73.60	-233.8	-394.5	426.9	419.6	7.27	58.734	CC, ES	
1,500.0	1,493.3	1,483.7	1,460.1	3.3	4.8	78.14	-216.3	-405.6	428.9	421.0	7.94	54.033		
1,600.0	1,591.2	1,575.7	1,549.1	3.6	5.2	83.24	-197.0	-418.3	435.1	426.4	8.64	50.346		
1,700.0	1,688.9	1,667.2	1,637.8	4.0	5.6	88.30	-177.8	-430.5	444.8	435.5	9.31	47.765		
1,800.0	1,786.1	1,756.8	1,724.6	4.5	6.0	93.22	-159.0	-442.2	458.4	448.4	9.95	46.088		
1,900.0	1,883.2	1,846.7	1,811.6	4.9	6.5	98.09	-139.5	-453.8	475.9	465.4	10.51	45.261		
2,000.0	1,980.4	1,939.3	1,901.3	5.3	6.9	102.81	-119.3	-465.3	496.7	485.7	11.02	45.060	SF	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL - S													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	-147.04	-409.0	-265.2	487.5					
100.0	100.0	104.5	104.5	0.2	0.2	-147.01	-408.7	-265.3	487.2	486.9	0.33	1,496.044		
200.0	200.0	207.0	207.0	0.3	0.3	-146.94	-407.7	-265.4	486.5	485.8	0.67	725.374		
300.0	300.0	309.5	309.4	0.5	0.5	-146.93	-406.5	-264.7	485.2	484.2	1.02	475.745		
387.4	387.4	389.5	389.4	0.7	0.7	-147.28	-407.4	-261.8	484.2	482.9	1.32	367.787		
400.0	400.0	400.3	400.2	0.7	0.7	-147.35	-407.7	-261.3	484.3	482.9	1.36	356.442		
500.0	500.0	491.2	490.8	0.9	0.9	35.77	-412.8	-256.0	485.1	483.4	1.72	281.714		
600.0	600.0	589.7	588.6	1.0	1.1	34.59	-420.9	-247.6	485.7	483.5	2.14	226.970		
700.0	699.9	697.3	695.0	1.2	1.4	33.04	-430.9	-235.1	484.3	481.7	2.63	184.425		
800.0	799.7	805.5	801.6	1.4	1.8	31.29	-440.2	-219.2	479.8	476.7	3.15	152.203		
900.0	899.4	904.3	898.7	1.6	2.1	29.55	-448.7	-202.7	473.3	469.6	3.68	128.464		
1,000.0	998.9	1,003.8	996.3	1.8	2.5	27.78	-457.4	-185.5	465.6	461.4	4.22	110.408		
1,100.0	1,098.3	1,100.4	1,091.1	2.1	2.8	26.16	-465.8	-169.3	457.0	452.2	4.74	96.396		
1,200.0	1,197.4	1,201.2	1,189.8	2.3	3.2	24.35	-475.0	-151.3	447.3	441.9	5.32	84.098		
1,300.0	1,296.3	1,300.3	1,286.3	2.6	3.7	22.13	-484.8	-130.4	436.1	430.1	5.92	73.658		
1,400.0	1,394.9	1,389.0	1,372.1	2.9	4.1	19.93	-494.7	-110.5	424.8	418.4	6.48	65.565		
1,500.0	1,493.3	1,481.4	1,461.4	3.3	4.5	17.54	-506.6	-89.9	414.6	407.5	7.04	58.909		
1,600.0	1,591.2	1,578.2	1,555.0	3.6	5.0	15.07	-519.7	-69.2	404.2	396.6	7.57	53.377		
1,700.0	1,688.9	1,681.5	1,655.3	4.0	5.5	12.56	-532.9	-48.3	392.3	384.3	8.09	48.482		
1,800.0	1,786.1	1,783.1	1,754.3	4.5	5.9	10.08	-544.5	-28.5	378.4	369.9	8.58	44.116		
1,900.0	1,883.2	1,886.8	1,855.3	4.9	6.4	7.20	-554.6	-7.1	362.9	353.8	9.08	39.980		
2,000.0	1,980.4	1,977.4	1,943.2	5.3	6.8	4.23	-563.8	13.0	348.8	339.3	9.52	36.654		
2,100.0	2,077.5	2,070.0	2,032.6	5.7	7.2	0.86	-574.9	34.3	337.6	327.6	9.93	34.005		
2,200.0	2,174.6	2,169.9	2,129.1	6.2	7.7	-2.99	-586.6	57.1	327.6	317.2	10.32	31.731		
2,300.0	2,271.7	2,265.7	2,221.6	6.6	8.2	-6.87	-598.0	79.0	319.3	308.6	10.68	29.887		
2,400.0	2,368.8	2,364.9	2,317.9	7.0	8.6	-10.85	-609.5	100.4	312.0	300.9	11.04	28.269		
2,500.0	2,466.0	2,460.6	2,410.4	7.5	9.1	-15.07	-620.7	122.3	306.8	295.4	11.39	26.935		
2,600.0	2,563.1	2,560.6	2,507.1	7.9	9.6	-19.63	-631.5	145.1	302.7	291.0	11.74	25.776		
2,700.0	2,660.2	2,660.6	2,604.2	8.4	10.0	-24.05	-642.6	166.4	300.1	288.0	12.11	24.773		
2,800.0	2,757.3	2,763.7	2,704.6	8.8	10.5	-28.76	-652.1	188.0	297.5	285.0	12.50	23.798		
2,900.0	2,854.4	2,862.8	2,801.5	9.2	10.9	-33.02	-661.1	206.5	295.3	282.4	12.91	22.871		
2,948.8	2,901.9	2,908.7	2,846.3	9.5	11.1	-35.01	-665.3	215.1	294.9	281.8	13.12	22.468	CC, ES	
3,000.0	2,951.6	2,952.9	2,889.5	9.7	11.3	-36.95	-669.7	223.8	295.6	282.2	13.35	22.136		
3,100.0	3,048.7	3,044.1	2,977.8	10.1	11.7	-41.02	-680.0	243.8	300.6	286.7	13.85	21.699		
3,200.0	3,145.8	3,140.5	3,071.1	10.6	12.2	-45.38	-690.4	266.3	308.2	293.8	14.41	21.389		
3,300.0	3,242.9	3,238.6	3,166.0	11.0	12.7	-49.19	-702.7	287.6	317.3	302.2	15.02	21.125		
3,400.0	3,340.1	3,332.6	3,257.0	11.5	13.1	-52.40	-715.7	307.4	327.8	312.1	15.68	20.913		
3,500.0	3,437.2	3,422.7	3,343.8	11.9	13.6	-55.46	-728.0	328.3	341.2	324.8	16.39	20.818		
3,600.0	3,534.3	3,518.0	3,435.1	12.4	14.1	-58.50	-741.5	351.9	357.4	340.2	17.18	20.796		
3,700.0	3,631.4	3,620.1	3,533.1	12.8	14.6	-61.54	-755.3	376.7	373.8	355.7	18.07	20.688		
3,800.0	3,728.5	3,716.0	3,625.4	13.3	15.1	-64.01	-768.8	398.9	390.1	371.2	18.95	20.587		
3,900.0	3,825.7	3,816.0	3,721.6	13.7	15.6	-66.34	-783.4	422.1	407.5	387.6	19.88	20.498		
4,000.0	3,922.8	3,925.0	3,827.1	14.2	16.1	-68.87	-797.2	446.1	423.7	402.8	20.90	20.271		
4,100.0	4,019.9	4,038.2	3,937.6	14.6	16.6	-71.73	-807.4	468.1	437.1	415.1	22.01	19.858		
4,200.0	4,117.0	4,140.8	4,038.3	15.0	17.0	-74.18	-816.1	485.8	449.1	426.1	23.08	19.456		
4,300.0	4,214.1	4,243.3	4,139.0	15.5	17.3	-76.37	-825.6	502.4	460.9	436.7	24.14	19.088		
4,400.0	4,311.3	4,356.5	4,250.6	15.9	17.7	-78.70	-835.5	518.8	471.6	446.3	25.26	18.667		
4,500.0	4,408.4	4,474.4	4,367.6	16.4	18.0	-81.26	-843.4	531.0	478.5	452.1	26.43	18.103		
4,600.0	4,505.5	4,584.1	4,476.8	16.8	18.2	-83.68	-849.6	539.0	483.1	455.6	27.55	17.535		
4,700.0	4,602.6	4,701.0	4,593.5	17.3	18.4	-86.51	-853.6	543.7	485.1	456.4	28.71	16.898		
4,800.0	4,699.7	4,801.8	4,694.2	17.7	18.5	-89.12	-855.4	545.7	486.2	456.4	29.76	16.334		
4,900.0	4,796.9	4,902.1	4,794.6	18.2	18.6	-91.77	-856.8	547.0	487.6	456.8	30.79	15.836		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: 248-MWD													Offset Well Error:		0.0 ft
Reference													Warning		
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			
5,000.0	4,894.0	5,002.0	4,894.4	18.6	18.7	-94.41	-858.0	547.7	489.5	457.8	31.78	15.406			
5,100.0	4,991.1	5,100.0	4,992.4	19.1	18.8	-97.01	-859.0	548.0	492.1	459.4	32.71	15.047			
5,200.0	5,088.2	5,196.0	5,088.5	19.5	18.8	-99.56	-859.6	548.4	495.9	462.3	33.58	14.769			
8,100.0	7,757.7	7,869.7	7,761.7	23.6	21.0	79.24	-852.1	512.7	467.7	428.4	39.33	11.893			
8,200.0	7,781.4	7,893.3	7,785.2	22.3	21.0	87.13	-852.0	512.5	425.6	387.5	38.10	11.170			
8,300.0	7,788.0	7,900.2	7,792.2	21.2	21.0	90.32	-851.9	512.5	402.9	366.0	36.87	10.928 SF			
8,343.8	7,788.0	7,900.4	7,792.4	20.7	21.0	90.35	-851.9	512.5	400.5	364.1	36.39	11.007			
8,400.0	7,788.0	7,900.7	7,792.7	20.1	21.0	90.38	-851.9	512.5	404.4	368.7	35.76	11.308			
8,500.0	7,788.0	7,901.2	7,793.2	19.1	21.0	90.45	-851.9	512.5	429.9	395.1	34.76	12.368			
8,600.0	7,788.0	7,901.7	7,793.7	18.2	21.0	90.52	-851.9	512.5	475.4	441.6	33.87	14.038			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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 S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLAN													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)				
800.0	799.7	787.7	787.7	1.4	1.4	41.63	-408.4	-303.3	498.2	495.4	2.76	180.419		
900.0	899.4	887.4	887.4	1.6	1.5	42.27	-408.4	-303.3	492.3	489.2	3.12	157.606		
1,000.0	998.9	986.9	986.9	1.8	1.7	43.08	-408.4	-303.3	485.3	481.8	3.49	138.860		
1,100.0	1,098.3	1,078.1	1,078.1	2.1	1.9	43.88	-409.4	-303.1	477.8	473.9	3.86	123.711		
1,200.0	1,197.4	1,168.4	1,168.3	2.3	2.0	44.56	-413.2	-302.4	471.1	466.8	4.24	111.024		
1,300.0	1,296.3	1,259.0	1,258.6	2.6	2.2	45.11	-419.8	-301.1	465.1	460.5	4.64	100.143		
1,400.0	1,394.9	1,349.8	1,349.0	2.9	2.4	45.52	-429.3	-299.2	459.9	454.9	5.07	90.666		
1,500.0	1,493.3	1,440.9	1,439.2	3.3	2.6	45.79	-441.6	-296.8	455.4	449.9	5.53	82.319		
1,600.0	1,591.2	1,532.2	1,529.1	3.6	2.9	45.91	-456.7	-293.8	451.7	445.6	6.03	74.913		
1,700.0	1,688.9	1,623.5	1,618.6	4.0	3.2	45.88	-474.7	-290.2	448.6	442.0	6.57	68.321		
1,800.0	1,786.1	1,714.8	1,707.4	4.5	3.5	45.69	-495.4	-286.1	446.2	439.1	7.14	62.504		
1,900.0	1,883.2	1,814.4	1,803.9	4.9	3.9	45.33	-519.6	-281.3	444.6	436.8	7.76	57.308		
2,000.0	1,980.4	1,914.4	1,900.7	5.3	4.3	44.96	-544.0	-276.5	442.9	434.6	8.39	52.808		
2,100.0	2,077.5	2,014.3	1,997.5	5.7	4.7	44.60	-568.3	-271.7	441.3	432.3	9.03	48.900		
2,200.0	2,174.6	2,114.2	2,094.3	6.2	5.1	44.23	-592.7	-266.9	439.7	430.1	9.67	45.490		
2,300.0	2,271.7	2,214.2	2,191.2	6.6	5.5	43.86	-617.0	-262.1	438.1	427.8	10.31	42.499		
2,400.0	2,368.8	2,314.1	2,288.0	7.0	5.9	43.48	-641.4	-257.3	436.6	425.6	10.95	39.861		
2,500.0	2,466.0	2,414.1	2,384.8	7.5	6.4	43.11	-665.7	-252.4	435.0	423.4	11.59	37.521		
2,600.0	2,563.1	2,514.0	2,481.6	7.9	6.8	42.73	-690.0	-247.6	433.5	421.3	12.23	35.435		
2,700.0	2,660.2	2,614.0	2,578.4	8.4	7.3	42.35	-714.4	-242.8	432.0	419.1	12.87	33.566		
2,800.0	2,757.3	2,713.9	2,675.3	8.8	7.7	41.96	-738.7	-238.0	430.5	417.0	13.50	31.885		
2,900.0	2,854.4	2,813.9	2,772.1	9.2	8.2	41.57	-763.1	-233.2	429.0	414.9	14.13	30.365		
3,000.0	2,951.6	2,913.8	2,868.9	9.7	8.6	41.18	-787.4	-228.4	427.6	412.8	14.75	28.986		
3,100.0	3,048.7	3,013.8	2,965.7	10.1	9.1	40.79	-811.8	-223.5	426.2	410.8	15.37	27.729		
3,200.0	3,145.8	3,113.7	3,062.5	10.6	9.5	40.40	-836.1	-218.7	424.8	408.8	15.98	26.581		
3,300.0	3,242.9	3,213.7	3,159.3	11.0	10.0	40.00	-860.4	-213.9	423.4	406.8	16.58	25.528		
3,400.0	3,340.1	3,313.6	3,256.2	11.5	10.4	39.60	-884.8	-209.1	422.0	404.8	17.18	24.560		
3,500.0	3,437.2	3,413.6	3,353.0	11.9	10.9	39.19	-909.1	-204.3	420.7	402.9	17.77	23.668		
3,600.0	3,534.3	3,513.5	3,449.8	12.4	11.4	38.79	-933.5	-199.5	419.3	401.0	18.36	22.842		
3,700.0	3,631.4	3,613.5	3,546.6	12.8	11.8	38.38	-957.8	-194.7	418.0	399.1	18.93	22.077		
3,800.0	3,728.5	3,713.4	3,643.4	13.3	12.3	37.97	-982.2	-189.8	416.7	397.2	19.50	21.367		
3,900.0	3,825.7	3,813.3	3,740.2	13.7	12.7	37.56	-1,006.5	-185.0	415.5	395.4	20.07	20.706		
4,000.0	3,922.8	3,913.3	3,837.1	14.2	13.2	37.14	-1,030.9	-180.2	414.2	393.6	20.62	20.090		
4,100.0	4,019.9	4,013.2	3,933.9	14.6	13.7	36.72	-1,055.2	-175.4	413.0	391.9	21.16	19.514		
4,200.0	4,117.0	4,113.2	4,030.7	15.0	14.1	36.30	-1,079.5	-170.6	411.8	390.1	21.70	18.976		
4,300.0	4,214.1	4,213.1	4,127.5	15.5	14.6	35.88	-1,103.9	-165.8	410.6	388.4	22.23	18.471		
4,400.0	4,311.3	4,313.1	4,224.3	15.9	15.1	35.45	-1,128.2	-161.0	409.5	386.7	22.75	17.998		
4,500.0	4,408.4	4,413.0	4,321.1	16.4	15.5	35.03	-1,152.6	-156.1	408.4	385.1	23.27	17.553		
4,600.0	4,505.5	4,513.0	4,418.0	16.8	16.0	34.60	-1,176.9	-151.3	407.3	383.5	23.77	17.134		
4,700.0	4,602.6	4,612.9	4,514.8	17.3	16.4	34.16	-1,201.3	-146.5	406.2	381.9	24.26	16.740		
4,800.0	4,699.7	4,712.9	4,611.6	17.7	16.9	33.73	-1,225.6	-141.7	405.1	380.4	24.75	16.369		
4,900.0	4,796.9	4,812.8	4,708.4	18.2	17.4	33.29	-1,249.9	-136.9	404.1	378.9	25.23	16.018		
5,000.0	4,894.0	4,912.8	4,805.2	18.6	17.8	32.85	-1,274.3	-132.1	403.1	377.4	25.69	15.687		
5,100.0	4,991.1	5,012.7	4,902.1	19.1	18.3	32.41	-1,298.6	-127.2	402.1	375.9	26.15	15.374		
5,200.0	5,088.2	5,112.7	4,998.9	19.5	18.8	31.97	-1,323.0	-122.4	401.1	374.5	26.60	15.078		
5,300.0	5,185.3	5,213.5	5,096.5	20.0	19.2	31.52	-1,347.5	-117.6	400.2	373.1	27.04	14.797		
5,400.0	5,282.5	5,325.7	5,205.8	20.4	19.7	31.24	-1,372.4	-112.6	397.5	370.0	27.54	14.434		
5,500.0	5,379.6	5,437.6	5,315.7	20.9	20.1	31.35	-1,393.1	-108.6	391.8	363.6	28.14	13.921		
5,600.0	5,476.7	5,548.9	5,425.8	21.3	20.4	31.88	-1,409.5	-105.3	383.0	354.1	28.87	13.267		
5,700.0	5,573.8	5,659.3	5,535.5	21.8	20.6	32.84	-1,421.6	-102.9	371.3	341.6	29.74	12.485		
5,800.0	5,670.9	5,768.5	5,644.3	22.2	20.8	34.31	-1,429.4	-101.4	356.8	326.0	30.78	11.593		
5,900.0	5,768.1	5,876.1	5,751.9	22.7	20.9	36.36	-1,433.2	-100.6	339.8	307.8	32.02	10.613		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLAN													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		
6,000.0	5,865.2	5,977.4	5,853.2	23.1	21.0	38.91	-1,433.6	-100.6	321.0	287.6	33.44	9.600		
6,100.0	5,962.3	6,074.5	5,950.3	23.6	21.1	41.71	-1,433.6	-100.6	302.6	267.7	34.95	8.659		
6,200.0	6,059.4	6,171.6	6,047.4	24.0	21.2	44.86	-1,433.6	-100.6	285.0	248.5	36.57	7.794		
6,300.0	6,156.6	6,268.8	6,144.6	24.5	21.3	48.39	-1,433.6	-100.6	268.4	230.1	38.31	7.007		
6,400.0	6,253.7	6,365.9	6,241.7	24.9	21.4	52.35	-1,433.6	-100.6	253.0	212.8	40.14	6.302		
6,500.0	6,350.8	6,463.0	6,338.8	25.4	21.5	56.79	-1,433.6	-100.6	238.9	196.8	42.02	5.684		
6,600.0	6,447.9	6,560.1	6,435.9	25.8	21.6	61.73	-1,433.6	-100.6	226.4	182.5	43.91	5.157		
6,700.0	6,545.0	6,657.2	6,533.0	26.3	21.6	67.17	-1,433.6	-100.6	215.9	170.2	45.71	4.723		
6,800.0	6,642.2	6,754.4	6,630.2	26.7	21.7	73.08	-1,433.6	-100.6	207.6	160.3	47.31	4.387		
6,900.0	6,739.3	6,851.5	6,727.3	27.2	21.8	79.39	-1,433.6	-100.6	201.7	153.1	48.60	4.151		
7,000.0	6,836.4	6,948.6	6,824.4	27.6	21.9	85.96	-1,433.6	-100.6	198.6	149.1	49.47	4.014		
7,060.4	6,895.0	7,007.3	6,883.0	27.9	22.0	90.00	-1,433.6	-100.6	198.1	148.3	49.76	3.980	CC, ES	
7,100.0	6,933.5	7,045.7	6,921.5	28.1	22.0	92.65	-1,433.6	-100.6	198.3	148.4	49.85	3.978	SF	
7,200.0	7,030.6	7,142.8	7,018.6	28.5	22.1	99.26	-1,433.6	-100.6	200.9	151.1	49.74	4.038		
7,300.0	7,128.2	7,240.4	7,116.2	28.9	22.2	107.60	-1,433.6	-100.6	205.7	156.5	49.17	4.183		
7,400.0	7,227.9	7,340.1	7,215.9	29.0	22.3	-113.68	-1,433.6	-100.6	208.7	159.8	48.97	4.262		
7,500.0	7,327.1	7,439.3	7,315.1	28.9	22.4	-84.70	-1,433.6	-100.6	208.1	158.6	49.58	4.198		
7,600.0	7,423.0	7,535.2	7,411.0	28.5	22.5	-90.00	-1,433.6	-100.6	206.6	156.2	50.39	4.101		
7,600.0	7,423.0	7,535.2	7,411.0	28.5	22.5	-90.00	-1,433.6	-100.6	206.6	156.2	50.39	4.101		
7,700.0	7,512.5	7,624.7	7,500.5	27.8	22.6	-99.62	-1,433.6	-100.6	210.9	160.8	50.17	4.204		
7,800.0	7,593.0	7,705.2	7,581.0	26.9	22.7	-109.62	-1,433.6	-100.6	229.6	181.4	48.22	4.762		
7,900.0	7,662.1	7,774.3	7,650.1	25.9	22.8	-116.98	-1,433.6	-100.6	268.4	223.0	45.37	5.916		
8,000.0	7,717.5	7,829.7	7,705.5	24.8	22.8	-120.04	-1,433.6	-100.6	327.1	284.1	43.05	7.598		
8,100.0	7,757.7	7,869.9	7,745.7	23.6	22.9	-117.61	-1,433.6	-100.6	401.6	359.3	42.32	9.492		
8,200.0	7,781.4	7,893.6	7,769.4	22.3	22.9	-107.48	-1,433.6	-100.6	486.9	443.6	43.33	11.237		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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	-147.18	-408.7	-263.6	486.4						
100.0	100.0	89.0	89.0	0.2	0.2	-147.18	-408.7	-263.6	486.3	486.0	0.31	1,582.990			
200.0	200.0	189.0	189.0	0.3	0.3	-147.18	-408.7	-263.6	486.3	485.6	0.66	741.027			
300.0	300.0	279.1	279.1	0.5	0.5	-147.27	-409.7	-263.4	487.2	486.2	0.99	492.371			
400.0	400.0	367.9	367.8	0.7	0.7	-147.57	-413.5	-262.7	490.4	489.0	1.33	369.722			
500.0	500.0	457.4	457.0	0.9	0.8	35.85	-420.0	-261.6	495.1	493.5	1.67	296.647			
600.0	600.0	559.5	558.6	1.0	1.1	35.08	-429.6	-258.1	499.3	497.2	2.06	241.963			
1,000.0	998.9	962.2	955.0	1.8	2.4	29.31	-481.4	-212.2	499.6	495.5	4.04	123.726			
1,100.0	1,098.3	1,060.5	1,050.2	2.1	2.9	27.17	-497.3	-193.2	496.6	491.9	4.64	107.086			
1,200.0	1,197.4	1,157.6	1,143.2	2.3	3.4	24.75	-514.3	-171.5	492.9	487.6	5.27	93.544			
1,300.0	1,296.3	1,253.2	1,234.0	2.6	3.9	22.03	-532.2	-147.3	488.9	483.0	5.92	82.523			
1,400.0	1,394.9	1,348.5	1,323.5	2.9	4.5	19.03	-551.0	-120.7	484.9	478.3	6.57	73.789			
1,500.0	1,493.3	1,444.7	1,413.7	3.3	5.1	15.96	-570.2	-93.5	480.8	473.6	7.19	66.850			
1,600.0	1,591.2	1,541.0	1,504.1	3.6	5.7	12.89	-589.4	-66.2	476.6	468.8	7.78	61.282			
1,700.0	1,688.9	1,637.3	1,594.4	4.0	6.3	9.81	-608.6	-38.9	472.1	463.8	8.32	56.756			
1,800.0	1,786.1	1,733.6	1,684.8	4.5	7.0	6.69	-627.8	-11.6	467.5	458.6	8.82	53.011			
1,900.0	1,883.2	1,829.9	1,775.1	4.9	7.6	3.53	-647.0	15.6	463.8	454.5	9.29	49.923			
2,000.0	1,980.4	1,926.2	1,865.4	5.3	8.2	0.33	-666.2	42.9	461.7	451.9	9.72	47.491			
2,086.0	2,063.9	2,009.1	1,943.2	5.7	8.7	-2.44	-682.7	66.4	461.1	451.0	10.06	45.823 CC			
2,100.0	2,077.5	2,022.5	1,955.8	5.7	8.8	-2.89	-685.4	70.2	461.1	451.0	10.12	45.583 ES			
2,200.0	2,174.6	2,118.8	2,046.1	6.2	9.4	-6.11	-704.6	97.5	462.1	451.6	10.48	44.092			
2,300.0	2,271.7	2,215.1	2,136.5	6.6	10.1	-9.31	-723.8	124.7	464.7	453.8	10.82	42.935			
2,400.0	2,368.8	2,311.4	2,226.8	7.0	10.7	-12.46	-743.1	152.0	468.8	457.6	11.15	42.044			
2,500.0	2,466.0	2,407.7	2,317.2	7.5	11.3	-15.55	-762.3	179.3	474.3	462.9	11.47	41.364			
2,600.0	2,563.1	2,504.0	2,407.5	7.9	11.9	-18.56	-781.5	206.6	481.4	469.6	11.78	40.852			
2,700.0	2,660.2	2,600.3	2,497.9	8.4	12.5	-21.49	-800.7	233.8	489.8	477.7	12.10	40.471			
2,800.0	2,757.3	2,696.7	2,588.2	8.8	13.2	-24.32	-819.9	261.1	499.5	487.1	12.43	40.189 SF			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3A-29H-M168 - 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	-89.95	0.0	-39.2	39.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-39.2	39.2	38.9	0.30	129.115		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-39.2	39.2	38.6	0.65	60.070 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	-90.00	0.0	-40.1	40.1	39.1	1.00	40.051		
400.0	400.0	398.6	398.5	0.7	0.7	-90.14	-0.1	-42.6	42.7	41.3	1.35	31.647		
500.0	500.0	497.7	497.6	0.9	0.9	94.59	-0.3	-46.9	47.1	45.4	1.70	27.741		
600.0	600.0	596.6	596.3	1.0	1.1	96.97	-0.5	-52.9	53.4	51.3	2.05	26.067		
700.0	699.9	695.2	694.6	1.2	1.3	100.19	-0.8	-60.6	61.7	59.3	2.40	25.677 SF		
800.0	799.7	793.4	792.4	1.4	1.5	103.68	-1.2	-69.9	72.3	69.6	2.77	26.095		
900.0	899.4	891.2	889.5	1.6	1.7	107.04	-1.6	-80.8	85.3	82.1	3.16	27.037		
1,000.0	998.9	988.3	985.9	1.8	2.0	110.08	-2.1	-93.3	100.7	97.1	3.56	28.311		
1,100.0	1,098.3	1,084.9	1,081.4	2.1	2.3	112.73	-2.7	-107.4	118.5	114.5	3.98	29.786		
1,200.0	1,197.4	1,180.7	1,175.9	2.3	2.6	115.00	-3.3	-122.9	138.7	134.3	4.42	31.365		
1,300.0	1,296.3	1,277.6	1,271.3	2.6	2.9	117.05	-4.0	-139.6	160.9	156.1	4.89	32.884		
1,400.0	1,394.9	1,374.6	1,366.9	2.9	3.3	119.03	-4.6	-156.5	184.2	178.8	5.39	34.177		
1,500.0	1,493.3	1,471.3	1,462.2	3.3	3.6	120.93	-5.3	-173.3	208.5	202.6	5.91	35.304		
1,600.0	1,591.2	1,567.8	1,557.1	3.6	3.9	122.76	-6.0	-190.0	234.0	227.5	6.44	36.312		
1,700.0	1,688.9	1,663.8	1,651.7	4.0	4.2	124.50	-6.6	-206.7	260.6	253.6	7.00	37.239		
1,800.0	1,786.1	1,759.4	1,745.9	4.5	4.6	126.20	-7.3	-223.3	288.4	280.8	7.57	38.113		
1,900.0	1,883.2	1,855.0	1,839.9	4.9	4.9	127.83	-7.9	-239.8	316.8	308.7	8.15	38.891		
2,000.0	1,980.4	1,950.5	1,934.0	5.3	5.2	129.20	-8.6	-256.4	345.4	336.7	8.72	39.586		
2,100.0	2,077.5	2,046.0	2,028.1	5.7	5.6	130.36	-9.3	-273.0	374.1	364.8	9.30	40.209		
2,200.0	2,174.6	2,141.5	2,122.2	6.2	5.9	131.35	-9.9	-289.6	403.0	393.1	9.88	40.771		
2,300.0	2,271.7	2,237.1	2,216.2	6.6	6.2	132.21	-10.6	-306.2	431.9	421.5	10.46	41.279		
2,400.0	2,368.8	2,332.6	2,310.3	7.0	6.6	132.97	-11.2	-322.7	461.0	449.9	11.04	41.742		
2,500.0	2,466.0	2,428.1	2,404.4	7.5	6.9	133.63	-11.9	-339.3	490.1	478.5	11.62	42.163		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3E-29H-M168 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-30.8	30.8	30.5	0.30	101.448		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.8	30.8	30.2	0.65	47.198		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-30.8	30.8	29.8	1.00	30.752 CC, ES		
400.0	400.0	399.6	399.6	0.7	0.7	-90.88	-0.5	-31.5	31.5	30.2	1.35	23.338		
500.0	500.0	499.1	499.0	0.9	0.9	91.96	-2.0	-33.6	33.7	32.0	1.70	19.820		
600.0	600.0	598.5	598.4	1.0	1.0	92.21	-4.5	-37.1	37.4	35.3	2.06	18.191		
700.0	699.9	697.8	697.5	1.2	1.2	93.42	-8.1	-42.0	42.6	40.2	2.42	17.595 SF		
800.0	799.7	796.9	796.3	1.4	1.4	95.16	-12.6	-48.3	49.3	46.5	2.80	17.610		
900.0	899.4	895.8	894.7	1.6	1.7	97.10	-18.1	-55.9	57.7	54.5	3.20	17.997		
1,000.0	998.9	994.5	992.8	1.8	1.9	99.02	-24.6	-64.9	67.6	64.0	3.63	18.608		
1,100.0	1,098.3	1,092.8	1,090.3	2.1	2.2	100.81	-32.1	-75.2	79.2	75.1	4.09	19.343		
1,200.0	1,197.4	1,190.9	1,187.3	2.3	2.5	102.40	-40.5	-86.8	92.4	87.8	4.59	20.132		
1,300.0	1,296.3	1,289.6	1,284.8	2.6	2.8	104.06	-49.6	-99.4	106.9	101.7	5.12	20.875		
1,400.0	1,394.9	1,388.4	1,382.3	2.9	3.1	106.08	-58.7	-112.0	121.9	116.2	5.68	21.456		
1,500.0	1,493.3	1,487.0	1,479.7	3.3	3.4	108.31	-67.8	-124.5	137.5	131.3	6.27	21.935		
1,600.0	1,591.2	1,585.4	1,576.9	3.6	3.7	110.67	-76.9	-137.1	154.0	147.1	6.89	22.362		
1,700.0	1,688.9	1,683.6	1,673.9	4.0	4.0	113.07	-86.0	-149.6	171.4	163.8	7.53	22.772		
1,800.0	1,786.1	1,781.6	1,770.7	4.5	4.3	115.50	-95.0	-162.1	189.7	181.6	8.18	23.198		
1,900.0	1,883.2	1,879.5	1,867.3	4.9	4.6	117.74	-104.1	-174.6	208.6	199.8	8.83	23.618		
2,000.0	1,980.4	1,977.4	1,964.0	5.3	4.9	119.60	-113.1	-187.1	227.8	218.3	9.49	24.014		
2,100.0	2,077.5	2,075.3	2,060.7	5.7	5.2	121.18	-122.1	-199.6	247.2	237.0	10.14	24.384		
2,200.0	2,174.6	2,173.2	2,157.4	6.2	5.5	122.53	-131.2	-212.1	266.7	255.9	10.79	24.727		
2,300.0	2,271.7	2,271.1	2,254.1	6.6	5.9	123.69	-140.2	-224.5	286.3	274.9	11.43	25.046		
2,400.0	2,368.8	2,369.0	2,350.7	7.0	6.2	124.71	-149.3	-237.0	306.1	294.0	12.08	25.342		
2,500.0	2,466.0	2,466.9	2,447.4	7.5	6.5	125.60	-158.3	-249.5	325.9	313.2	12.72	25.617		
2,600.0	2,563.1	2,564.8	2,544.1	7.9	6.8	126.39	-167.3	-262.0	345.8	332.4	13.37	25.872		
2,700.0	2,660.2	2,662.7	2,640.8	8.4	7.1	127.09	-176.4	-274.5	365.7	351.7	14.01	26.109		
2,800.0	2,757.3	2,760.6	2,737.4	8.8	7.4	127.72	-185.4	-287.0	385.7	371.1	14.65	26.330		
2,900.0	2,854.4	2,858.5	2,834.1	9.2	7.8	128.29	-194.4	-299.4	405.8	390.5	15.29	26.536		
3,000.0	2,951.6	2,956.4	2,930.8	9.7	8.1	128.81	-203.5	-311.9	425.8	409.9	15.93	26.729		
3,100.0	3,048.7	3,054.3	3,027.5	10.1	8.4	129.28	-212.5	-324.4	445.9	429.4	16.57	26.909		
3,200.0	3,145.8	3,152.2	3,124.1	10.6	8.7	129.71	-221.6	-336.9	466.1	448.9	17.21	27.078		
3,300.0	3,242.9	3,250.1	3,220.8	11.0	9.0	130.10	-230.6	-349.4	486.2	468.4	17.85	27.236		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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		Total	Separation	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor									
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.6												
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.558									
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.65	30.035									
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	1.00	19.570									
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-19.6	19.6	18.3	1.35	14.513 CC									
500.0	500.0	499.9	499.9	0.9	0.9	93.99	-0.8	-19.8	19.8	18.1	1.70	11.650 ES									
600.0	600.0	599.9	599.8	1.0	1.0	94.08	-3.4	-20.2	20.4	18.4	2.06	9.942									
700.0	699.9	699.8	699.7	1.2	1.2	94.22	-7.7	-21.0	21.5	19.1	2.42	8.868									
800.0	799.7	799.7	799.4	1.4	1.4	94.39	-13.7	-22.0	23.0	20.2	2.81	8.172									
900.0	899.4	899.6	899.0	1.6	1.6	94.58	-21.4	-23.4	24.9	21.7	3.23	7.714									
1,000.0	998.9	999.5	998.5	1.8	1.8	94.77	-30.8	-25.0	27.2	23.5	3.67	7.410									
1,100.0	1,098.3	1,099.4	1,097.7	2.1	2.1	94.96	-42.0	-27.0	29.9	25.8	4.15	7.209									
1,200.0	1,197.4	1,199.3	1,196.7	2.3	2.3	95.13	-54.8	-29.3	33.1	28.4	4.68	7.077									
1,300.0	1,296.3	1,299.1	1,295.5	2.6	2.6	95.29	-69.3	-31.8	36.7	31.4	5.25	6.990									
1,400.0	1,394.9	1,399.0	1,393.9	2.9	2.9	95.43	-85.5	-34.7	40.7	34.8	5.86	6.933									
1,500.0	1,493.3	1,498.8	1,492.0	3.3	3.3	95.55	-103.4	-37.8	45.1	38.5	6.53	6.897									
1,600.0	1,591.2	1,598.5	1,589.8	3.6	3.6	95.65	-123.0	-41.3	49.9	42.6	7.26	6.875									
1,700.0	1,688.9	1,698.3	1,687.2	4.0	4.0	95.74	-144.2	-45.0	55.1	47.1	8.03	6.862									
1,800.0	1,786.1	1,798.0	1,784.1	4.5	4.4	95.78	-167.1	-49.1	60.8	51.9	8.86	6.857 SF									
1,900.0	1,883.2	1,897.8	1,880.9	4.9	4.9	95.19	-191.3	-53.3	66.6	56.9	9.71	6.865									
2,000.0	1,980.4	1,997.6	1,977.6	5.3	5.3	94.62	-215.5	-57.6	72.5	62.0	10.56	6.867									
2,100.0	2,077.5	2,096.5	2,073.5	5.7	5.8	94.21	-239.5	-62.2	78.8	67.4	11.42	6.902									
2,200.0	2,174.6	2,194.8	2,168.7	6.2	6.2	94.11	-262.9	-68.4	86.7	74.4	12.28	7.064									
2,300.0	2,271.7	2,293.8	2,264.7	6.6	6.6	94.22	-286.2	-75.9	96.0	82.8	13.14	7.304									
2,400.0	2,368.8	2,393.4	2,361.1	7.0	7.1	94.32	-309.5	-83.7	105.3	91.3	14.01	7.520									
2,500.0	2,466.0	2,492.9	2,457.6	7.5	7.5	94.41	-332.8	-91.4	114.7	99.8	14.88	7.709									
2,600.0	2,563.1	2,592.5	2,554.1	7.9	8.0	94.49	-356.2	-99.1	124.1	108.3	15.75	7.876									
2,700.0	2,660.2	2,692.0	2,650.6	8.4	8.4	94.55	-379.5	-106.8	133.4	116.8	16.63	8.024									
2,800.0	2,757.3	2,791.6	2,747.1	8.8	8.9	94.61	-402.8	-114.5	142.8	125.3	17.51	8.157									
2,900.0	2,854.4	2,891.2	2,843.5	9.2	9.3	94.66	-426.2	-122.2	152.2	133.8	18.39	8.276									
3,000.0	2,951.6	2,990.7	2,940.0	9.7	9.8	94.70	-449.5	-129.9	161.6	142.3	19.27	8.383									
3,100.0	3,048.7	3,090.3	3,036.5	10.1	10.3	94.74	-472.9	-137.7	170.9	150.8	20.15	8.481									
3,200.0	3,145.8	3,189.8	3,133.0	10.6	10.7	94.78	-496.2	-145.4	180.3	159.3	21.04	8.570									
3,300.0	3,242.9	3,289.4	3,229.4	11.0	11.2	94.81	-519.5	-153.1	189.7	167.7	21.92	8.652									
3,400.0	3,340.1	3,389.0	3,325.9	11.5	11.6	94.84	-542.9	-160.8	199.0	176.2	22.81	8.726									
3,500.0	3,437.2	3,488.5	3,422.4	11.9	12.1	94.86	-566.2	-168.5	208.4	184.7	23.70	8.795									
3,600.0	3,534.3	3,588.1	3,518.9	12.4	12.5	94.89	-589.6	-176.2	217.8	193.2	24.58	8.859									
3,700.0	3,631.4	3,687.6	3,615.4	12.8	13.0	94.91	-612.9	-184.0	227.2	201.7	25.47	8.918									
3,800.0	3,728.5	3,787.2	3,711.8	13.3	13.5	94.93	-636.2	-191.7	236.5	210.2	26.36	8.973									
3,900.0	3,825.7	3,886.8	3,808.3	13.7	13.9	94.95	-659.6	-199.4	245.9	218.6	27.25	9.024									
4,000.0	3,922.8	3,986.3	3,904.8	14.2	14.4	94.97	-682.9	-207.1	255.3	227.1	28.14	9.072									
4,100.0	4,019.9	4,085.9	4,001.3	14.6	14.8	94.98	-706.3	-214.8	264.6	235.6	29.03	9.117									
4,200.0	4,117.0	4,185.4	4,097.7	15.0	15.3	95.00	-729.6	-222.5	274.0	244.1	29.92	9.159									
4,300.0	4,214.1	4,285.0	4,194.2	15.5	15.8	95.01	-752.9	-230.3	283.4	252.6	30.81	9.198									
4,400.0	4,311.3	4,384.6	4,290.7	15.9	16.2	95.02	-776.3	-238.0	292.8	261.1	31.70	9.236									
4,500.0	4,408.4	4,484.1	4,387.2	16.4	16.7	95.04	-799.6	-245.7	302.1	269.5	32.59	9.271									
4,600.0	4,505.5	4,583.7	4,483.6	16.8	17.1	95.05	-823.0	-253.4	311.5	278.0	33.48	9.304									
4,700.0	4,602.6	4,683.2	4,580.1	17.3	17.6	95.06	-846.3	-261.1	320.9	286.5	34.37	9.335									
4,800.0	4,699.7	4,782.8	4,676.6	17.7	18.1	95.07	-869.6	-268.8	330.2	295.0	35.26	9.365									
4,900.0	4,796.9	4,882.4	4,773.1	18.2	18.5	95.08	-893.0	-276.5	339.6	303.5	36.16	9.393									
5,000.0	4,894.0	4,981.9	4,869.6	18.6	19.0	95.09	-916.3	-284.3	349.0	311.9	37.05	9.420									
5,100.0	4,991.1	5,081.5	4,966.0	19.1	19.5	95.10	-939.7	-292.0	358.4	320.4	37.94	9.445									

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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		
5,200.0	5,088.2	5,181.0	5,062.5	19.5	19.9	95.10	-963.0	-299.7	367.7	328.9	38.83	9.470			
5,300.0	5,185.3	5,280.6	5,159.0	20.0	20.4	95.11	-986.3	-307.4	377.1	337.4	39.73	9.493			
5,400.0	5,282.5	5,380.2	5,255.5	20.4	20.8	95.12	-1,009.7	-315.1	386.5	345.9	40.62	9.515			
5,500.0	5,379.6	5,479.7	5,351.9	20.9	21.3	95.13	-1,033.0	-322.8	395.8	354.3	41.51	9.536			
5,600.0	5,476.7	5,579.3	5,448.4	21.3	21.8	95.13	-1,056.3	-330.6	405.2	362.8	42.40	9.556			
5,700.0	5,573.8	5,678.8	5,544.9	21.8	22.2	95.14	-1,079.7	-338.3	414.6	371.3	43.30	9.575			
5,800.0	5,670.9	5,778.4	5,641.4	22.2	22.7	95.15	-1,103.0	-346.0	424.0	379.8	44.19	9.594			
5,900.0	5,768.1	5,878.0	5,737.9	22.7	23.2	95.15	-1,126.4	-353.7	433.3	388.2	45.08	9.612			
6,000.0	5,865.2	5,977.5	5,834.3	23.1	23.6	95.16	-1,149.7	-361.4	442.7	396.7	45.98	9.629			
6,100.0	5,962.3	6,077.1	5,930.8	23.6	24.1	95.16	-1,173.0	-369.1	452.1	405.2	46.87	9.645			
6,200.0	6,059.4	6,176.6	6,027.3	24.0	24.5	95.17	-1,196.4	-376.8	461.4	413.7	47.76	9.661			
6,300.0	6,156.6	6,276.2	6,123.8	24.5	25.0	95.17	-1,219.7	-384.6	470.8	422.2	48.66	9.676			
6,400.0	6,253.7	6,375.8	6,220.2	24.9	25.5	95.18	-1,243.1	-392.3	480.2	430.6	49.55	9.691			
6,500.0	6,350.8	6,475.3	6,316.7	25.4	25.9	95.18	-1,266.4	-400.0	489.6	439.1	50.45	9.705			
6,600.0	6,447.9	6,574.9	6,413.2	25.8	26.4	95.19	-1,289.7	-407.7	498.9	447.6	51.34	9.718			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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	-89.96	0.0	-11.2	11.2						
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.890			
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.65	17.163			
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	1.00	11.183			
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.9	1.35	8.293 CC			
500.0	500.0	500.0	500.0	0.9	0.8	98.37	0.0	-11.2	11.3	9.6	1.70	6.643 ES			
600.0	600.0	599.9	599.9	1.0	1.0	107.21	-0.6	-11.8	12.4	10.3	2.05	6.023			
700.0	699.9	699.7	699.7	1.2	1.2	114.39	-2.6	-13.6	15.1	12.6	2.41	6.241			
800.0	799.7	799.5	799.4	1.4	1.4	119.28	-5.7	-16.4	19.2	16.5	2.78	6.917			
900.0	899.4	899.4	899.1	1.6	1.6	125.13	-9.0	-19.5	24.5	21.4	3.16	7.775			
1,000.0	998.9	999.1	998.8	1.8	1.8	131.35	-12.3	-22.5	31.1	27.6	3.54	8.808			
1,100.0	1,098.3	1,098.7	1,098.3	2.1	1.9	137.13	-15.6	-25.6	39.2	35.3	3.91	10.025			
1,200.0	1,197.4	1,198.2	1,197.6	2.3	2.1	142.18	-18.9	-28.6	49.0	44.7	4.29	11.415			
1,300.0	1,296.3	1,297.4	1,296.8	2.6	2.3	146.45	-22.3	-31.7	60.4	55.7	4.66	12.954			
1,400.0	1,394.9	1,396.5	1,395.7	2.9	2.5	150.03	-25.6	-34.7	73.5	68.5	5.03	14.621			
1,500.0	1,493.3	1,495.3	1,494.4	3.3	2.7	153.02	-28.9	-37.7	88.4	83.0	5.39	16.395			
1,600.0	1,591.2	1,593.8	1,592.8	3.6	2.9	155.52	-32.1	-40.8	105.1	99.3	5.76	18.257			
1,700.0	1,688.9	1,692.0	1,690.9	4.0	3.1	157.64	-35.4	-43.8	123.5	117.3	6.11	20.194			
1,800.0	1,786.1	1,789.9	1,788.7	4.5	3.2	159.44	-38.7	-46.8	143.5	137.1	6.47	22.184			
1,900.0	1,883.2	1,887.6	1,886.4	4.9	3.4	160.91	-41.9	-49.8	164.2	157.4	6.83	24.031			
2,000.0	1,980.4	1,985.4	1,984.0	5.3	3.6	162.05	-45.2	-52.8	184.9	177.8	7.20	25.700			
2,100.0	2,077.5	2,083.1	2,081.7	5.7	3.8	162.96	-48.5	-55.8	205.8	198.2	7.56	27.215			
2,200.0	2,174.6	2,180.9	2,179.4	6.2	4.0	163.71	-51.7	-58.8	226.6	218.7	7.93	28.593			
2,300.0	2,271.7	2,278.7	2,277.0	6.6	4.2	164.33	-55.0	-61.8	247.5	239.2	8.29	29.853			
2,400.0	2,368.8	2,376.4	2,374.7	7.0	4.4	164.85	-58.2	-64.8	268.4	259.7	8.66	31.009			
2,500.0	2,466.0	2,474.2	2,472.3	7.5	4.5	165.30	-61.5	-67.8	289.3	280.3	9.02	32.072			
2,600.0	2,563.1	2,572.0	2,570.0	7.9	4.7	165.68	-64.8	-70.8	310.2	300.9	9.39	33.054			
2,700.0	2,660.2	2,669.7	2,667.7	8.4	4.9	166.02	-68.0	-73.8	331.2	321.4	9.75	33.963			
2,800.0	2,757.3	2,767.5	2,765.3	8.8	5.1	166.32	-71.3	-76.8	352.2	342.0	10.12	34.806			
2,900.0	2,854.4	2,865.3	2,863.0	9.2	5.3	166.58	-74.5	-79.8	373.1	362.6	10.48	35.592			
3,000.0	2,951.6	2,963.0	2,960.7	9.7	5.5	166.82	-77.8	-82.8	394.1	383.2	10.85	36.324			
3,100.0	3,048.7	3,060.8	3,058.3	10.1	5.7	167.03	-81.1	-85.8	415.1	403.9	11.22	37.010			
3,200.0	3,145.8	3,158.5	3,156.0	10.6	5.9	167.22	-84.3	-88.8	436.1	424.5	11.58	37.652			
3,300.0	3,242.9	3,256.3	3,253.7	11.0	6.0	167.39	-87.6	-91.8	457.0	445.1	11.95	38.255			
3,400.0	3,340.1	3,354.1	3,351.3	11.5	6.2	167.55	-90.8	-94.8	478.0	465.7	12.31	38.822			
3,500.0	3,437.2	3,451.8	3,449.0	11.9	6.4	167.70	-94.1	-97.8	499.0	486.4	12.68	39.357			
8,700.0	7,788.0	7,666.9	7,654.7	17.4	14.2	-68.53	-186.6	-226.9	477.7	448.0	29.66	16.107			
8,800.0	7,788.0	7,700.0	7,685.1	16.8	14.2	-73.15	-173.5	-227.8	418.9	389.3	29.62	14.140			
8,900.0	7,788.0	7,725.5	7,708.0	16.4	14.2	-76.77	-162.3	-228.5	374.4	344.9	29.51	12.687			
9,000.0	7,788.0	7,767.1	7,744.1	16.1	14.2	-82.68	-141.7	-229.6	348.7	319.1	29.58	11.786			
9,076.3	7,788.0	7,807.2	7,777.5	16.1	14.3	-88.24	-119.5	-230.7	342.8	313.2	29.66	11.559			
9,100.0	7,788.0	7,821.5	7,789.0	16.1	14.3	-90.16	-111.0	-231.0	343.4	313.7	29.65	11.580			
9,200.0	7,788.0	7,894.1	7,843.9	16.2	14.3	-99.21	-63.6	-232.7	355.7	326.2	29.58	12.025			
9,300.0	7,788.0	7,991.7	7,907.5	16.5	14.5	-109.02	10.2	-234.7	378.5	349.2	29.33	12.905			
9,400.0	7,788.0	8,120.7	7,970.6	17.0	14.9	-117.65	122.4	-236.6	402.0	372.8	29.20	13.768			
9,500.0	7,788.0	8,279.3	8,011.6	17.6	15.8	-122.59	275.1	-237.9	416.2	386.4	29.87	13.935			
9,600.0	7,788.0	8,408.7	8,016.0	18.4	16.9	-123.08	404.2	-238.0	417.7	386.3	31.39	13.305			
9,700.0	7,788.0	8,508.7	8,016.0	19.3	17.9	-123.08	504.2	-238.0	417.7	384.7	33.01	12.654			
9,800.0	7,788.0	8,608.7	8,016.0	20.3	19.0	-123.08	604.2	-238.0	417.7	382.9	34.80	12.004			
9,900.0	7,788.0	8,708.7	8,016.0	21.5	20.2	-123.08	704.2	-238.0	417.7	381.0	36.74	11.370			
10,000.0	7,788.0	8,808.7	8,016.0	22.7	21.5	-123.08	804.2	-238.0	417.7	378.9	38.80	10.765			
10,100.0	7,788.0	8,908.7	8,016.0	23.9	22.8	-123.08	904.2	-238.0	417.7	376.7	40.98	10.194			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3D-29H-M168 - Hz - Plan #1															
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	7,788.0	9,008.7	8,016.0	25.3	24.2	-123.08	1,004.2	-238.0	417.7	374.5	43.24	9.660			
10,300.0	7,788.0	9,108.7	8,016.0	26.7	25.6	-123.08	1,104.2	-238.0	417.7	372.1	45.58	9.163			
10,400.0	7,788.0	9,208.7	8,016.0	28.1	27.1	-123.08	1,204.2	-238.0	417.7	369.7	47.99	8.703			
10,500.0	7,788.0	9,308.7	8,016.0	29.5	28.6	-123.08	1,304.2	-238.0	417.7	367.2	50.46	8.278			
10,600.0	7,788.0	9,408.7	8,016.0	31.0	30.1	-123.08	1,404.2	-238.0	417.7	364.7	52.97	7.885			
10,700.0	7,788.0	9,508.7	8,016.0	32.5	31.6	-123.08	1,504.2	-238.0	417.7	362.2	55.53	7.522			
10,800.0	7,788.0	9,608.7	8,016.0	34.1	33.2	-123.08	1,604.2	-238.0	417.7	359.6	58.13	7.186			
10,900.0	7,788.0	9,708.7	8,016.0	35.6	34.8	-123.08	1,704.2	-238.0	417.7	357.0	60.75	6.876			
11,000.0	7,788.0	9,808.7	8,016.0	37.2	36.4	-123.08	1,804.2	-238.0	417.7	354.3	63.41	6.588			
11,100.0	7,788.0	9,908.7	8,016.0	38.8	38.0	-123.08	1,904.2	-238.0	417.7	351.6	66.08	6.321			
11,200.0	7,788.0	10,008.7	8,016.0	40.4	39.7	-123.08	2,004.2	-238.0	417.7	348.9	68.79	6.073			
11,300.0	7,788.0	10,108.7	8,016.0	42.0	41.3	-123.08	2,104.2	-238.0	417.7	346.2	71.51	5.842			
11,400.0	7,788.0	10,208.7	8,016.0	43.6	42.9	-123.08	2,204.2	-238.0	417.7	343.5	74.24	5.626			
11,500.0	7,788.0	10,308.7	8,016.0	45.3	44.6	-123.08	2,304.2	-238.0	417.7	340.7	77.00	5.425			
11,600.0	7,788.0	10,408.7	8,016.0	46.9	46.3	-123.08	2,404.2	-238.0	417.7	337.9	79.76	5.237			
11,700.0	7,788.0	10,508.7	8,016.0	48.6	47.9	-123.08	2,504.2	-238.0	417.7	335.2	82.54	5.061			
11,800.0	7,788.0	10,608.7	8,016.0	50.2	49.6	-123.08	2,604.2	-238.0	417.7	332.4	85.33	4.895			
11,900.0	7,788.0	10,708.7	8,016.0	51.9	51.3	-123.08	2,704.2	-238.0	417.7	329.6	88.13	4.740			
12,000.0	7,788.0	10,808.7	8,016.0	53.6	53.0	-123.08	2,804.2	-238.0	417.7	326.8	90.94	4.593			
12,100.0	7,788.0	10,908.7	8,016.0	55.2	54.7	-123.08	2,904.2	-238.0	417.7	323.9	93.76	4.455			
12,200.0	7,788.0	11,008.7	8,016.0	56.9	56.4	-123.08	3,004.2	-238.0	417.7	321.1	96.59	4.325			
12,300.0	7,788.0	11,108.7	8,016.0	58.6	58.1	-123.08	3,104.2	-238.0	417.7	318.3	99.42	4.201			
12,400.0	7,788.0	11,208.7	8,016.0	60.3	59.8	-123.08	3,204.2	-238.0	417.7	315.4	102.26	4.085			
12,500.0	7,788.0	11,308.7	8,016.0	62.0	61.5	-123.08	3,304.2	-238.0	417.7	312.6	105.10	3.974			
12,600.0	7,788.0	11,408.7	8,016.0	63.7	63.2	-123.08	3,404.2	-238.0	417.7	309.8	107.95	3.869			
12,700.0	7,788.0	11,508.7	8,016.0	65.4	64.9	-123.08	3,504.2	-238.0	417.7	306.9	110.81	3.770			
12,800.0	7,788.0	11,608.7	8,016.0	67.1	66.6	-123.08	3,604.2	-238.0	417.7	304.0	113.67	3.675			
12,900.0	7,788.0	11,708.7	8,016.0	68.8	68.3	-123.08	3,704.2	-238.0	417.7	301.2	116.54	3.584			
13,000.0	7,788.0	11,808.7	8,016.0	70.5	70.0	-123.08	3,804.2	-238.0	417.7	298.3	119.40	3.498			
13,100.0	7,788.0	11,908.7	8,016.0	72.2	71.7	-123.08	3,904.2	-238.0	417.7	295.4	122.28	3.416			
13,200.0	7,788.0	12,008.7	8,016.0	73.9	73.5	-123.08	4,004.2	-238.0	417.7	292.6	125.15	3.338			
13,300.0	7,788.0	12,108.7	8,016.0	75.6	75.2	-123.08	4,104.2	-238.0	417.7	289.7	128.03	3.263			
13,400.0	7,788.0	12,208.7	8,016.0	77.3	76.9	-123.08	4,204.2	-238.0	417.7	286.8	130.91	3.191			
13,500.0	7,788.0	12,308.7	8,016.0	79.1	78.6	-123.08	4,304.2	-238.0	417.7	283.9	133.80	3.122			
13,600.0	7,788.0	12,408.7	8,016.0	80.8	80.3	-123.08	4,404.2	-238.0	417.7	281.0	136.69	3.056			
13,700.0	7,788.0	12,508.7	8,016.0	82.5	82.1	-123.08	4,504.2	-238.0	417.7	278.1	139.58	2.993			
13,800.0	7,788.0	12,608.7	8,016.0	84.2	83.8	-123.08	4,604.2	-238.0	417.7	275.2	142.47	2.932			
13,900.0	7,788.0	12,708.7	8,016.0	85.9	85.5	-123.08	4,704.2	-238.0	417.7	272.3	145.36	2.874			
14,000.0	7,788.0	12,808.7	8,016.0	87.7	87.3	-123.08	4,804.2	-238.0	417.7	269.4	148.26	2.817			
14,100.0	7,788.0	12,908.7	8,016.0	89.4	89.0	-123.08	4,904.2	-238.0	417.7	266.5	151.16	2.763			
14,200.0	7,788.0	13,008.7	8,016.0	91.1	90.7	-123.08	5,004.2	-238.0	417.7	263.6	154.06	2.711			
14,300.0	7,788.0	13,108.7	8,016.0	92.8	92.5	-123.08	5,104.2	-238.0	417.7	260.7	156.96	2.661			
14,400.0	7,788.0	13,208.7	8,016.0	94.6	94.2	-123.08	5,204.2	-238.0	417.7	257.8	159.87	2.613			
14,500.0	7,788.0	13,308.7	8,016.0	96.3	95.9	-123.08	5,304.2	-238.0	417.7	254.9	162.77	2.566			
14,600.0	7,788.0	13,408.7	8,016.0	98.0	97.7	-123.08	5,404.2	-238.0	417.7	252.0	165.68	2.521			
14,700.0	7,788.0	13,508.7	8,016.0	99.8	99.4	-123.08	5,504.2	-238.0	417.7	249.1	168.59	2.478			
14,800.0	7,788.0	13,608.7	8,016.0	101.5	101.1	-123.08	5,604.2	-238.0	417.7	246.2	171.50	2.436			
14,900.0	7,788.0	13,708.7	8,016.0	103.2	102.9	-123.08	5,704.2	-238.0	417.7	243.3	174.41	2.395			
15,000.0	7,788.0	13,808.7	8,016.0	105.0	104.6	-123.08	5,804.2	-238.0	417.7	240.4	177.32	2.356			
15,100.0	7,788.0	13,908.7	8,016.0	106.7	106.3	-123.08	5,904.2	-238.0	417.7	237.5	180.23	2.318			
15,200.0	7,788.0	14,008.7	8,016.0	108.4	108.1	-123.08	6,004.2	-238.0	417.7	234.6	183.15	2.281			
15,300.0	7,788.0	14,108.7	8,016.0	110.2	109.8	-123.08	6,104.2	-238.0	417.7	231.6	186.06	2.245			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3D-29H-M168 - 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		
15,400.0	7,788.0	14,208.7	8,016.0	111.9	111.6	-123.08	6,204.2	-238.0	417.7	228.7	188.98	2.210		
15,500.0	7,788.0	14,308.7	8,016.0	113.6	113.3	-123.08	6,304.2	-238.0	417.7	225.8	191.90	2.177		
15,600.0	7,788.0	14,408.7	8,016.0	115.4	115.0	-123.08	6,404.2	-238.0	417.7	222.9	194.81	2.144		
15,700.0	7,788.0	14,508.7	8,016.0	117.1	116.8	-123.08	6,504.2	-238.0	417.7	220.0	197.73	2.112		
15,800.0	7,788.0	14,608.7	8,016.0	118.8	118.5	-123.08	6,604.2	-238.0	417.7	217.1	200.65	2.082		
15,900.0	7,788.0	14,708.7	8,016.0	120.6	120.3	-123.08	6,704.2	-238.0	417.7	214.1	203.57	2.052		
16,000.0	7,788.0	14,808.7	8,016.0	122.3	122.0	-123.08	6,804.2	-238.0	417.7	211.2	206.49	2.023		
16,100.0	7,788.0	14,908.7	8,016.0	124.1	123.7	-123.08	6,904.2	-238.0	417.7	208.3	209.42	1.995		
16,200.0	7,788.0	15,008.7	8,016.0	125.8	125.5	-123.08	7,004.2	-238.0	417.7	205.4	212.34	1.967		
16,300.0	7,788.0	15,108.7	8,016.0	127.5	127.2	-123.08	7,104.2	-238.0	417.7	202.4	215.26	1.940		
16,400.0	7,788.0	15,208.7	8,016.0	129.3	129.0	-123.08	7,204.2	-238.0	417.7	199.5	218.19	1.914		
16,500.0	7,788.0	15,308.7	8,016.0	131.0	130.7	-123.08	7,304.2	-238.0	417.7	196.6	221.11	1.889		
16,600.0	7,788.0	15,408.7	8,016.0	132.8	132.5	-123.08	7,404.2	-238.0	417.7	193.7	224.04	1.864		
16,624.7	7,788.0	15,433.4	8,016.0	133.2	132.9	-123.08	7,428.9	-238.0	417.7	192.9	224.76	1.858 SF		
16,700.0	7,788.0	15,450.3	8,016.0	134.5	133.2	-123.08	7,445.8	-238.0	421.8	195.7	226.11	1.865		
16,747.3	7,788.0	15,450.3	8,016.0	135.3	133.2	-123.08	7,445.8	-238.0	430.9	204.1	226.80	1.900		

### Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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 S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - 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	90.06	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	8.4	8.4	8.1	0.30	27.668		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.7	0.65	12.872		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	8.4	8.4	7.4	1.00	8.387	CC	
400.0	400.0	399.9	399.9	0.7	0.7	95.52	-0.8	8.7	8.7	7.4	1.35	6.447	ES	
500.0	500.0	499.9	499.8	0.9	0.9	-71.48	-3.3	9.5	9.7	8.0	1.70	5.714		
600.0	600.0	599.7	599.6	1.0	1.0	-65.44	-7.5	10.8	11.3	9.3	2.06	5.489		
700.0	699.9	699.6	699.2	1.2	1.2	-62.00	-13.3	12.7	13.3	10.9	2.43	5.491		
800.0	799.7	799.4	798.7	1.4	1.4	-60.42	-20.7	15.1	15.7	12.9	2.81	5.598		
900.0	899.4	899.1	898.0	1.6	1.7	-60.06	-29.8	18.1	18.5	15.3	3.21	5.754		
1,000.0	998.9	998.8	997.1	1.8	1.9	-60.49	-40.5	21.6	21.6	17.9	3.64	5.925		
1,100.0	1,098.3	1,098.5	1,095.9	2.1	2.2	-61.38	-52.8	25.6	25.0	20.9	4.10	6.096		
1,200.0	1,197.4	1,198.1	1,194.4	2.3	2.5	-62.54	-66.8	30.1	28.7	24.1	4.59	6.256		
1,300.0	1,296.3	1,297.7	1,292.6	2.6	2.8	-63.84	-82.4	35.2	32.9	27.7	5.14	6.398		
1,400.0	1,394.9	1,397.2	1,390.5	2.9	3.1	-65.19	-99.6	40.8	37.4	31.6	5.73	6.521		
1,500.0	1,493.3	1,496.6	1,488.0	3.3	3.5	-66.54	-118.4	46.9	42.2	35.9	6.37	6.625		
1,600.0	1,591.2	1,596.0	1,585.0	3.6	3.9	-67.86	-138.8	53.5	47.5	40.4	7.08	6.710		
1,700.0	1,688.9	1,695.4	1,681.7	4.0	4.3	-69.14	-160.8	60.6	53.1	45.3	7.83	6.779		
1,800.0	1,786.1	1,795.3	1,778.6	4.5	4.7	-71.25	-183.5	68.0	58.5	49.9	8.66	6.756		
1,900.0	1,883.2	1,895.1	1,875.6	4.9	5.2	-73.49	-206.1	75.4	63.9	54.3	9.53	6.704		
2,000.0	1,980.4	1,994.9	1,972.5	5.3	5.6	-75.38	-228.7	82.7	69.3	58.9	10.40	6.663		
2,100.0	2,077.5	2,094.8	2,069.5	5.7	6.0	-77.00	-251.4	90.1	74.8	63.5	11.28	6.629		
2,200.0	2,174.6	2,194.6	2,166.4	6.2	6.5	-78.39	-274.0	97.4	80.3	68.1	12.16	6.602		
2,300.0	2,271.7	2,294.4	2,263.4	6.6	6.9	-79.61	-296.7	104.8	85.9	72.8	13.05	6.581		
2,400.0	2,368.8	2,394.2	2,360.3	7.0	7.4	-80.68	-319.3	112.2	91.5	77.5	13.94	6.563		
2,500.0	2,466.0	2,494.1	2,457.3	7.5	7.8	-81.62	-342.0	119.5	97.1	82.3	14.83	6.549		
2,600.0	2,563.1	2,593.9	2,554.2	7.9	8.2	-82.46	-364.6	126.9	102.8	87.0	15.72	6.537		
2,700.0	2,660.2	2,693.7	2,651.2	8.4	8.7	-83.21	-387.3	134.2	108.4	91.8	16.62	6.527		
2,800.0	2,757.3	2,793.6	2,748.1	8.8	9.1	-83.89	-409.9	141.6	114.1	96.6	17.51	6.519		
2,900.0	2,854.4	2,893.4	2,845.1	9.2	9.6	-84.50	-432.6	149.0	119.9	101.4	18.40	6.512		
3,000.0	2,951.6	2,993.2	2,942.0	9.7	10.0	-85.06	-455.2	156.3	125.6	106.3	19.30	6.506		
3,100.0	3,048.7	3,093.0	3,039.0	10.1	10.5	-85.56	-477.9	163.7	131.3	111.1	20.20	6.502		
3,200.0	3,145.8	3,192.9	3,135.9	10.6	10.9	-86.03	-500.5	171.0	137.1	116.0	21.09	6.498		
3,300.0	3,242.9	3,292.7	3,232.9	11.0	11.4	-86.46	-523.2	178.4	142.8	120.8	21.99	6.495		
3,400.0	3,340.1	3,392.5	3,329.8	11.5	11.8	-86.85	-545.8	185.7	148.6	125.7	22.88	6.492		
3,500.0	3,437.2	3,492.4	3,426.7	11.9	12.3	-87.22	-568.5	193.1	154.3	130.5	23.78	6.489		
3,600.0	3,534.3	3,592.2	3,523.7	12.4	12.7	-87.56	-591.1	200.5	160.1	135.4	24.68	6.487		
3,700.0	3,631.4	3,692.0	3,620.6	12.8	13.2	-87.87	-613.7	207.8	165.9	140.3	25.57	6.486		
3,800.0	3,728.5	3,791.9	3,717.6	13.3	13.6	-88.17	-636.4	215.2	171.7	145.2	26.47	6.485		
3,900.0	3,825.7	3,891.4	3,814.2	13.7	14.1	-88.44	-659.0	222.5	177.5	150.1	27.37	6.484		
4,000.0	3,922.8	3,988.3	3,908.4	14.2	14.5	-88.81	-680.5	230.6	184.2	156.0	28.25	6.522		
4,100.0	4,019.9	4,084.9	4,002.3	14.6	14.9	-89.32	-701.4	240.1	192.6	163.4	29.13	6.611		
4,200.0	4,117.0	4,181.5	4,096.1	15.0	15.4	-89.94	-721.5	251.1	202.5	172.5	30.00	6.749		
4,300.0	4,214.1	4,280.9	4,192.6	15.5	15.8	-90.59	-742.0	263.1	213.1	182.2	30.90	6.898		
4,400.0	4,311.3	4,380.3	4,289.2	15.9	16.2	-91.18	-762.4	275.1	223.8	192.0	31.79	7.041		
4,500.0	4,408.4	4,479.7	4,385.7	16.4	16.7	-91.72	-782.9	287.1	234.5	201.8	32.67	7.176		
4,600.0	4,505.5	4,579.1	4,482.2	16.8	17.1	-92.20	-803.3	299.1	245.2	211.6	33.56	7.306		
4,700.0	4,602.6	4,678.5	4,578.8	17.3	17.6	-92.65	-823.8	311.0	255.9	221.4	34.44	7.429		
4,800.0	4,699.7	4,778.0	4,675.3	17.7	18.0	-93.06	-844.2	323.0	266.6	231.3	35.33	7.547		
4,900.0	4,796.9	4,877.4	4,771.8	18.2	18.5	-93.44	-864.7	335.0	277.4	241.2	36.21	7.660		
5,000.0	4,894.0	4,976.8	4,868.4	18.6	18.9	-93.79	-885.1	347.0	288.1	251.0	37.09	7.767		
5,100.0	4,991.1	5,076.2	4,964.9	19.1	19.3	-94.12	-905.6	359.0	298.9	260.9	37.98	7.870		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - Hz - Plan #1													Offset Well Error:	0.0 ft
Survey Program: 0-MWD														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,088.2	5,175.6	5,061.5	19.5	19.8	-94.42	-926.0	371.0	309.7	270.8	38.86	7.969		
5,300.0	5,185.3	5,275.0	5,158.0	20.0	20.2	-94.70	-946.5	382.9	320.4	280.7	39.74	8.064		
5,400.0	5,282.5	5,374.4	5,254.5	20.4	20.7	-94.97	-966.9	394.9	331.2	290.6	40.62	8.155		
5,500.0	5,379.6	5,473.8	5,351.1	20.9	21.1	-95.21	-987.4	406.9	342.0	300.5	41.50	8.242		
5,600.0	5,476.7	5,573.2	5,447.6	21.3	21.6	-95.45	-1,007.8	418.9	352.8	310.5	42.38	8.325		
5,700.0	5,573.8	5,672.6	5,544.2	21.8	22.0	-95.67	-1,028.3	430.9	363.6	320.4	43.26	8.406		
5,800.0	5,670.9	5,772.0	5,640.7	22.2	22.5	-95.87	-1,048.7	442.8	374.5	330.3	44.14	8.483		
5,900.0	5,768.1	5,871.4	5,737.2	22.7	22.9	-96.07	-1,069.2	454.8	385.3	340.2	45.02	8.558		
6,000.0	5,865.2	5,970.8	5,833.8	23.1	23.4	-96.25	-1,089.6	466.8	396.1	350.2	45.90	8.629		
6,100.0	5,962.3	6,070.2	5,930.3	23.6	23.8	-96.42	-1,110.0	478.8	406.9	360.1	46.78	8.698		
6,200.0	6,059.4	6,169.6	6,026.8	24.0	24.3	-96.59	-1,130.5	490.8	417.7	370.1	47.66	8.765		
6,300.0	6,156.6	6,269.0	6,123.4	24.5	24.7	-96.75	-1,150.9	502.8	428.6	380.0	48.54	8.829		
6,400.0	6,253.7	6,368.4	6,219.9	24.9	25.1	-96.89	-1,171.4	514.7	439.4	390.0	49.42	8.891		
6,500.0	6,350.8	6,467.8	6,316.5	25.4	25.6	-97.04	-1,191.8	526.7	450.2	399.9	50.30	8.951		
6,600.0	6,447.9	6,567.2	6,413.0	25.8	26.0	-97.17	-1,212.3	538.7	461.1	409.9	51.18	9.009		
6,700.0	6,545.0	6,666.6	6,509.5	26.3	26.5	-97.30	-1,232.7	550.7	471.9	419.9	52.06	9.066		
6,800.0	6,642.2	6,766.1	6,606.1	26.7	26.9	-97.42	-1,253.2	562.7	482.8	429.8	52.94	9.120		
6,900.0	6,739.3	6,865.5	6,702.6	27.2	27.4	-97.54	-1,273.6	574.7	493.6	439.8	53.82	9.172		
12,300.0	7,788.0	12,530.4	8,016.0	58.6	60.3	117.81	3,152.7	544.2	491.0	385.2	105.83	4.640		
12,400.0	7,788.0	12,629.8	8,016.0	60.3	61.9	118.43	3,251.5	533.1	481.2	372.9	108.25	4.445		
12,500.0	7,788.0	12,729.1	8,016.0	62.0	63.5	119.08	3,350.2	522.0	471.4	360.8	110.61	4.262		
12,600.0	7,788.0	12,828.5	8,016.0	63.7	65.1	119.75	3,449.0	510.9	461.7	348.8	112.89	4.090		
12,700.0	7,788.0	12,927.9	8,016.0	65.4	66.8	120.45	3,547.7	499.9	452.0	336.9	115.10	3.927		
12,800.0	7,788.0	13,027.3	8,016.0	67.1	68.4	121.18	3,646.5	488.8	442.4	325.2	117.23	3.774		
12,900.0	7,788.0	13,126.6	8,016.0	68.8	70.1	121.94	3,745.2	477.7	432.9	313.7	119.26	3.630		
13,000.0	7,788.0	13,226.0	8,016.0	70.5	71.7	122.74	3,844.0	466.6	423.5	302.3	121.19	3.494		
13,100.0	7,788.0	13,322.8	8,016.0	72.2	73.4	123.54	3,942.2	456.0	414.3	291.3	123.01	3.368		
13,200.0	7,788.0	13,416.8	8,016.0	73.9	74.9	124.24	4,033.7	447.0	406.3	281.4	124.85	3.254		
13,300.0	7,788.0	13,511.0	8,016.0	75.6	76.5	124.84	4,127.6	439.5	399.7	273.0	126.78	3.153		
13,400.0	7,788.0	13,605.4	8,016.0	77.3	78.1	125.34	4,221.9	433.5	394.6	265.8	128.81	3.063		
13,500.0	7,788.0	13,700.0	8,016.0	79.1	79.8	125.71	4,316.4	429.1	390.8	259.8	130.99	2.983		
13,600.0	7,788.0	13,794.8	8,016.0	80.8	81.4	125.96	4,411.1	426.3	388.3	255.0	133.33	2.913		
13,700.0	7,788.0	13,889.6	8,016.0	82.5	83.0	126.07	4,505.9	425.0	387.2	251.4	135.87	2.850		
13,732.1	7,788.0	13,920.0	8,016.0	83.1	83.5	126.08	4,536.4	424.9	387.2	250.4	136.73	2.832		
13,800.0	7,788.0	13,984.4	8,016.0	84.2	84.6	126.05	4,600.7	425.3	387.5	248.9	138.61	2.795		
13,900.0	7,788.0	14,084.1	8,016.0	85.9	86.3	125.94	4,700.4	426.5	388.5	246.9	141.56	2.744		
14,000.0	7,788.0	14,184.1	8,016.0	87.7	88.0	125.84	4,800.4	427.7	389.4	244.9	144.53	2.695		
14,100.0	7,788.0	14,284.1	8,016.0	89.4	89.8	125.73	4,900.4	428.9	390.4	242.9	147.50	2.647		
14,200.0	7,788.0	14,384.1	8,016.0	91.1	91.5	125.63	5,000.3	430.1	391.4	241.0	150.48	2.601		
14,300.0	7,788.0	14,484.0	8,016.0	92.8	93.2	125.52	5,100.3	431.4	392.4	239.0	153.47	2.557		
14,400.0	7,788.0	14,584.0	8,016.0	94.6	94.9	125.42	5,200.3	432.6	393.4	237.0	156.47	2.514		
14,500.0	7,788.0	14,684.0	8,016.0	96.3	96.7	125.32	5,300.3	433.8	394.4	234.9	159.47	2.473		
14,600.0	7,788.0	14,784.0	8,016.0	98.0	98.4	125.21	5,400.3	435.0	395.4	232.9	162.48	2.434		
14,700.0	7,788.0	14,884.0	8,016.0	99.8	100.1	125.11	5,500.3	436.3	396.4	230.9	165.50	2.395		
14,800.0	7,788.0	14,984.0	8,016.0	101.5	101.8	125.01	5,600.3	437.5	397.4	228.9	168.53	2.358		
14,900.0	7,788.0	15,084.0	8,016.0	103.2	103.6	124.91	5,700.2	438.7	398.4	226.9	171.56	2.322		
15,000.0	7,788.0	15,184.0	8,016.0	105.0	105.3	124.81	5,800.2	439.9	399.4	224.8	174.60	2.288		
15,100.0	7,788.0	15,284.0	8,016.0	106.7	107.0	124.71	5,900.2	441.1	400.4	222.8	177.64	2.254		
15,200.0	7,788.0	15,384.0	8,016.0	108.4	108.8	124.61	6,000.2	442.4	401.4	220.7	180.70	2.222		
15,300.0	7,788.0	15,484.0	8,016.0	110.2	110.5	124.51	6,100.2	443.6	402.4	218.7	183.76	2.190		
15,400.0	7,788.0	15,584.0	8,016.0	111.9	112.2	124.41	6,200.2	444.8	403.4	216.6	186.82	2.159		
15,500.0	7,788.0	15,684.0	8,016.0	113.6	114.0	124.32	6,300.1	446.0	404.4	214.6	189.90	2.130		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3F-29H-M168 - 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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
15,600.0	7,788.0	15,784.0	8,016.0	115.4	115.7	124.22	6,400.1	447.3	405.5	212.5	192.98	2.101		
15,700.0	7,788.0	15,883.9	8,016.0	117.1	117.4	124.12	6,500.1	448.5	406.5	210.4	196.06	2.073		
15,800.0	7,788.0	15,983.9	8,016.0	118.8	119.2	124.03	6,600.1	449.7	407.5	208.3	199.15	2.046		
15,900.0	7,788.0	16,083.9	8,016.0	120.6	120.9	123.93	6,700.1	450.9	408.5	206.2	202.25	2.020		
16,000.0	7,788.0	16,183.9	8,016.0	122.3	122.6	123.83	6,800.1	452.1	409.5	204.2	205.35	1.994		
16,100.0	7,788.0	16,283.9	8,016.0	124.1	124.4	123.74	6,900.1	453.4	410.5	202.1	208.46	1.969		
16,200.0	7,788.0	16,383.9	8,016.0	125.8	126.1	123.65	7,000.0	454.6	411.5	200.0	211.57	1.945		
16,300.0	7,788.0	16,483.9	8,016.0	127.5	127.8	123.55	7,100.0	455.8	412.6	197.9	214.69	1.922		
16,400.0	7,788.0	16,583.9	8,016.0	129.3	129.6	123.46	7,200.0	457.0	413.6	195.8	217.82	1.899		
16,500.0	7,788.0	16,683.9	8,016.0	131.0	131.3	123.36	7,300.0	458.2	414.6	193.7	220.95	1.876		
16,600.0	7,788.0	16,783.9	8,016.0	132.8	133.0	123.27	7,400.0	459.5	415.6	191.5	224.08	1.855		
16,700.0	7,788.0	16,883.9	8,016.0	134.5	134.8	123.18	7,500.0	460.7	416.6	189.4	227.22	1.834		
16,747.3	7,788.0	16,931.1	8,016.0	135.3	135.6	123.14	7,547.2	461.3	417.1	188.4	228.71	1.824 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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - Waste Connections 3G-29H-M168 - 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	1.0	1.0	0.0	0.0	90.05	0.0	19.6	19.6					
100.0	100.0	101.0	101.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.31	64.189		
166.3	166.3	167.3	167.3	0.3	0.3	90.05	0.0	19.6	19.6	19.1	0.54	36.511 CC		
200.0	200.0	201.0	201.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.65	29.955 ES		
300.0	300.0	300.8	300.8	0.5	0.5	91.92	-0.7	20.2	20.2	19.2	1.00	20.136		
400.0	400.0	400.5	400.4	0.7	0.7	96.84	-2.6	21.9	22.1	20.8	1.35	16.327		
500.0	500.0	500.0	499.9	0.9	0.9	-74.64	-5.9	24.8	25.3	23.6	1.71	14.819		
600.0	600.0	599.6	599.3	1.0	1.1	-72.41	-10.4	28.9	29.5	27.5	2.07	14.286		
700.0	699.9	699.0	698.4	1.2	1.3	-71.89	-16.2	34.1	34.7	32.2	2.44	14.230 SF		
800.0	799.7	798.3	797.2	1.4	1.5	-72.45	-23.3	40.4	40.7	37.9	2.82	14.423		
900.0	899.4	897.4	895.7	1.6	1.8	-73.66	-31.6	47.9	47.6	44.4	3.23	14.747		
1,000.0	998.9	996.4	993.8	1.8	2.0	-75.19	-41.2	56.4	55.5	51.8	3.67	15.130		
1,100.0	1,098.3	1,095.2	1,091.5	2.1	2.3	-76.86	-52.0	66.1	64.4	60.2	4.14	15.531		
1,200.0	1,197.4	1,194.2	1,189.2	2.3	2.6	-78.65	-64.0	76.8	74.1	69.4	4.66	15.901		
1,300.0	1,296.3	1,293.6	1,287.3	2.6	3.0	-81.06	-76.3	87.8	83.7	78.5	5.22	16.045		
1,400.0	1,394.9	1,393.1	1,385.4	2.9	3.3	-84.02	-88.5	98.7	93.4	87.5	5.83	16.015		
1,500.0	1,493.3	1,492.4	1,483.4	3.3	3.6	-87.38	-100.7	109.6	103.1	96.6	6.49	15.890		
1,600.0	1,591.2	1,591.7	1,581.3	3.6	3.9	-91.00	-112.9	120.5	113.1	106.0	7.19	15.738		
1,700.0	1,688.9	1,690.8	1,679.0	4.0	4.3	-94.81	-125.1	131.4	123.7	115.8	7.93	15.609		
1,800.0	1,786.1	1,789.7	1,776.6	4.5	4.6	-98.72	-137.3	142.3	135.1	126.4	8.69	15.546		
1,900.0	1,883.2	1,888.6	1,874.2	4.9	4.9	-102.30	-149.4	153.1	147.0	137.6	9.44	15.575		
2,000.0	1,980.4	1,987.5	1,971.7	5.3	5.2	-105.32	-161.6	164.0	159.5	149.3	10.18	15.666		
2,100.0	2,077.5	2,086.4	2,069.2	5.7	5.6	-107.91	-173.7	174.9	172.4	161.4	10.91	15.795		
2,200.0	2,174.6	2,185.3	2,166.8	6.2	5.9	-110.13	-185.9	185.7	185.5	173.9	11.63	15.947		
2,300.0	2,271.7	2,284.2	2,264.3	6.6	6.2	-112.06	-198.0	196.6	198.9	186.5	12.34	16.111		
2,400.0	2,368.8	2,383.1	2,361.8	7.0	6.6	-113.75	-210.2	207.5	212.5	199.4	13.05	16.281		
2,500.0	2,466.0	2,482.0	2,459.4	7.5	6.9	-115.23	-222.4	218.3	226.2	212.5	13.75	16.452		
2,600.0	2,563.1	2,580.9	2,556.9	7.9	7.2	-116.54	-234.5	229.2	240.1	225.6	14.44	16.621		
2,700.0	2,660.2	2,679.7	2,654.5	8.4	7.5	-117.71	-246.7	240.1	254.1	238.9	15.13	16.786		
2,800.0	2,757.3	2,778.6	2,752.0	8.8	7.9	-118.76	-258.8	250.9	268.1	252.3	15.82	16.947		
2,900.0	2,854.4	2,877.5	2,849.5	9.2	8.2	-119.70	-271.0	261.8	282.3	265.8	16.51	17.102		
3,000.0	2,951.6	2,976.4	2,947.1	9.7	8.5	-120.55	-283.1	272.7	296.5	279.3	17.19	17.251		
3,100.0	3,048.7	3,075.3	3,044.6	10.1	8.9	-121.33	-295.3	283.5	310.8	292.9	17.87	17.394		
3,200.0	3,145.8	3,174.2	3,142.2	10.6	9.2	-122.04	-307.5	294.4	325.1	306.6	18.54	17.531		
3,300.0	3,242.9	3,273.1	3,239.7	11.0	9.5	-122.68	-319.6	305.3	339.5	320.3	19.22	17.663		
3,400.0	3,340.1	3,372.0	3,337.2	11.5	9.9	-123.28	-331.8	316.1	353.9	334.0	19.89	17.788		
3,500.0	3,437.2	3,470.9	3,434.8	11.9	10.2	-123.82	-343.9	327.0	368.3	347.8	20.57	17.908		
3,600.0	3,534.3	3,569.8	3,532.3	12.4	10.5	-124.33	-356.1	337.9	382.8	361.6	21.24	18.023		
3,700.0	3,631.4	3,668.7	3,629.8	12.8	10.9	-124.80	-368.2	348.7	397.3	375.4	21.91	18.133		
3,800.0	3,728.5	3,767.6	3,727.4	13.3	11.2	-125.24	-380.4	359.6	411.8	389.3	22.58	18.238		
3,900.0	3,825.7	3,866.4	3,824.9	13.7	11.5	-125.64	-392.6	370.5	426.4	403.1	23.25	18.338		
4,000.0	3,922.8	3,965.3	3,922.5	14.2	11.9	-126.02	-404.7	381.3	441.0	417.0	23.92	18.435		
4,100.0	4,019.9	4,064.2	4,020.0	14.6	12.2	-126.38	-416.9	392.2	455.6	431.0	24.59	18.527		
4,200.0	4,117.0	4,163.1	4,117.5	15.0	12.5	-126.71	-429.0	403.1	470.2	444.9	25.26	18.615		
4,300.0	4,214.1	4,262.0	4,215.1	15.5	12.9	-127.02	-441.2	413.9	484.8	458.9	25.92	18.700		
4,400.0	4,311.3	4,360.9	4,312.6	15.9	13.2	-127.32	-453.4	424.8	499.4	472.8	26.59	18.781		

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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: 911-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			
16,300.0	7,788.0	11,327.4	7,673.9	127.5	87.9	-32.51	7,524.7	25.3	450.3	356.9	93.47	4.818			
16,400.0	7,788.0	11,306.2	7,673.9	129.3	87.4	-25.85	7,528.9	46.1	358.2	276.7	81.51	4.394			
16,500.0	7,788.0	11,285.8	7,673.9	131.0	86.9	-18.64	7,532.9	66.1	270.1	202.0	68.12	3.965			
16,600.0	7,788.0	11,266.3	7,673.8	132.8	86.4	-11.14	7,536.7	85.2	191.9	136.8	55.11	3.482			
16,700.0	7,788.0	11,247.0	7,673.7	134.5	85.9	-3.30	7,540.5	104.1	141.2	95.4	45.87	3.079			
16,737.7	7,788.0	11,239.7	7,673.7	135.2	85.8	-0.30	7,541.9	111.3	136.3	91.6	44.75	3.046	CC, ES, SF		
16,747.3	7,788.0	11,237.8	7,673.7	135.3	85.7	0.47	7,542.3	113.1	136.6	91.9	44.74	3.054			

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 Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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			
16,300.0	7,788.0	7,927.7	7,727.0	127.5	31.0	90.00	7,227.3	593.6	497.1	355.8	141.26	3.519			
16,400.0	7,788.0	7,927.7	7,727.0	129.3	31.0	90.00	7,227.3	593.6	482.2	339.2	143.00	3.372			
16,423.1	7,788.0	7,927.7	7,727.0	129.7	31.0	90.00	7,227.3	593.6	481.6	338.2	143.40	3.359	CC, ES, SF		
16,500.0	7,788.0	7,927.7	7,727.0	131.0	31.0	90.00	7,227.3	593.6	487.7	343.0	144.74	3.370			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Waste Connections 3E-29H-M168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5153.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Waste Connections 3E-29H-M168	<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
S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL													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		
15,300.0	7,788.0	7,826.0	7,727.0	110.2	23.5	-90.00	6,455.0	-165.2	447.1	318.0	129.08	3.464		
15,400.0	7,788.0	7,826.0	7,727.0	111.9	23.5	-90.00	6,455.0	-165.2	373.8	243.0	130.82	2.858		
15,500.0	7,788.0	7,826.0	7,727.0	113.6	23.5	-90.00	6,455.0	-165.2	315.6	183.0	132.55	2.381		
15,600.0	7,788.0	7,826.0	7,727.0	115.4	23.5	-90.00	6,455.0	-165.2	281.8	147.5	134.29	2.099		
15,650.8	7,788.0	7,826.0	7,727.0	116.3	23.5	-90.00	6,455.0	-165.2	277.2	142.0	135.17	2.051	CC, ES, SF	
15,700.0	7,788.0	7,826.0	7,727.0	117.1	23.5	-90.00	6,455.0	-165.2	281.5	145.5	136.03	2.070		
15,800.0	7,788.0	7,826.0	7,727.0	118.8	23.5	-90.00	6,455.0	-165.2	314.8	177.0	137.77	2.285		
15,900.0	7,788.0	7,826.0	7,727.0	120.6	23.5	-90.00	6,455.0	-165.2	372.7	233.2	139.50	2.672		
16,000.0	7,788.0	7,826.0	7,727.0	122.3	23.5	-90.00	6,455.0	-165.2	445.8	304.6	141.24	3.157		

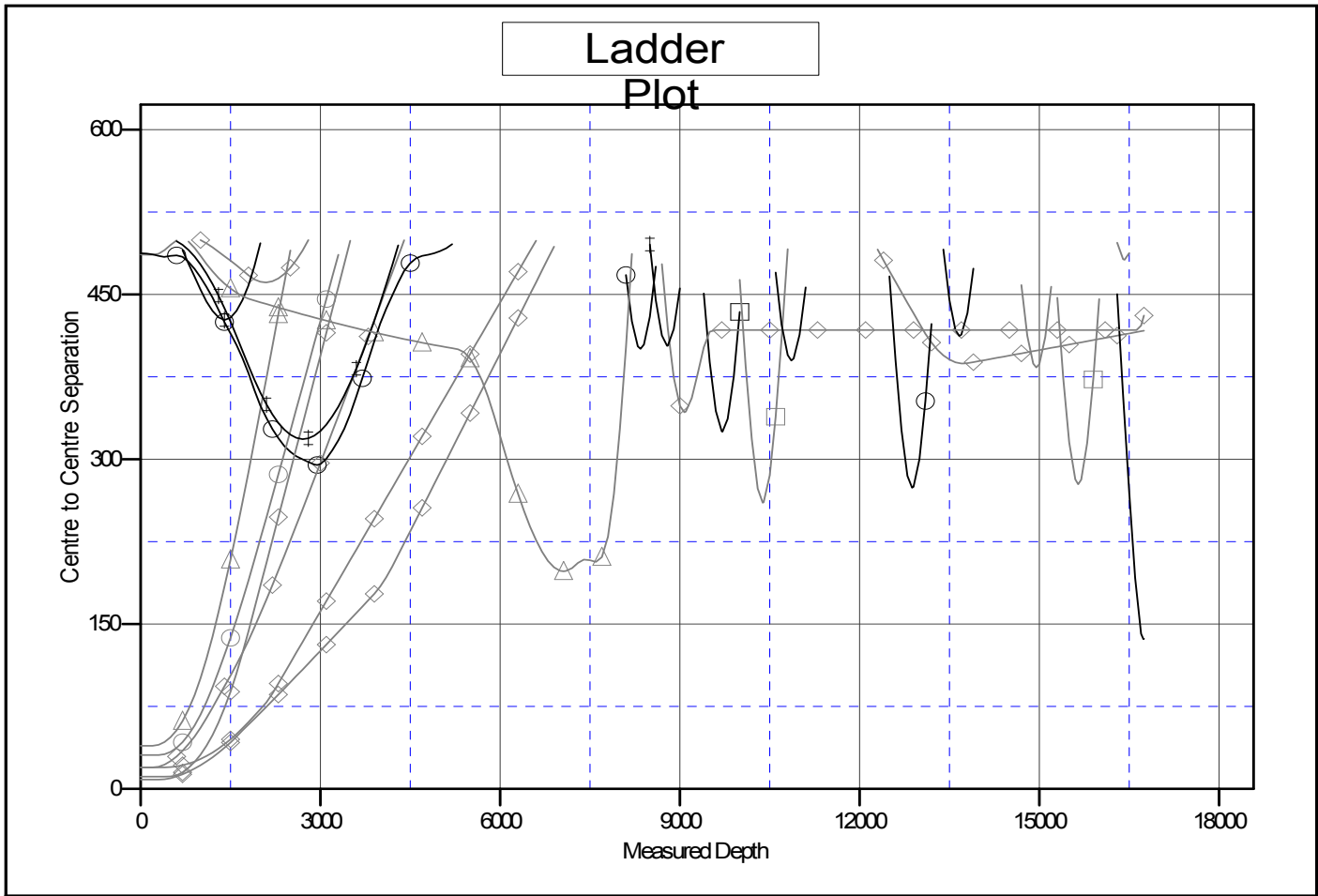
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b> EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b> Well Waste Connections 3E-29H-M168	<b>WELL @ 5153.0ft (Original Well Elev)</b>
<b>Project:</b> DJ Wattenberg	<b>TVD Reference:</b> WELL @ 5153.0ft (Original Well Elev)	
<b>Reference Site:</b> S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b> WELL @ 5153.0ft (Original Well Elev)	
<b>Site Error:</b> 0.0ft	<b>North Reference:</b> True	
<b>Reference Well:</b> Waste Connections 3E-29H-M168	<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 @ 5153.0ft (Original Well Elev)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -105.500000 °

Coordinates are relative to: Waste Connections 3E-29H-M168  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.30°



### LEGEND

168, Hz, Plan #1 V0	▲ WILLIAM PELTIER 1A-20H (EXISTING), ENCANA WELL, SURVEYS V0	◻ WILLIAM PELTIER 2-4-20 (EXISTING), ENCANA WELL, SURVEYS V0
3E-29H, NOSURVEYS V0	◆ Waste Connections 3C-29H-M168, Hz, Plan #1 V0	○ Waste Connections 3B-29H-M168, Hz, Plan #1 V0
ENCANA WELL, ENCANA WELL V0	✦ COSTIGAN 23-20 (EXISTING), ENCANA WELL, PLAN ONLY V0	✦ PRATT 22-29 (EXISTING), ENCANA WELL, SURVEYS V0
), SYNERGY WELL, PLAN ONLY V0	◻ PRATT 2-4-29 (EXISTING), ENCANA WELL, PLAN ONLY V0	✦ PRATT 2 (EXISTING), SYNERGY WELL, SURVEYS V0
168, Hz, Plan #1 V0	◆ Waste Connections 3D-29H-M168, Hz, Plan #1 V0	○ WILLIAM PELTIER 22-20 (EXISTING), ENCANA WELL, SURVEYS V0
68, Hz, Plan #1 V0	○ PRATT 2-0-29 (EXISTING), ENCANA WELL, SURVEYS V0	▲ SRC PRATT 29LD (EXISTING), SYNERGY WELL, SURVEYS V0
NG), SYNERGY WELL, SURVEYS V0	✦ SRC PRATT 13-29D (EXISTING), SYNERGY WELL, SURVEYS V0	

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