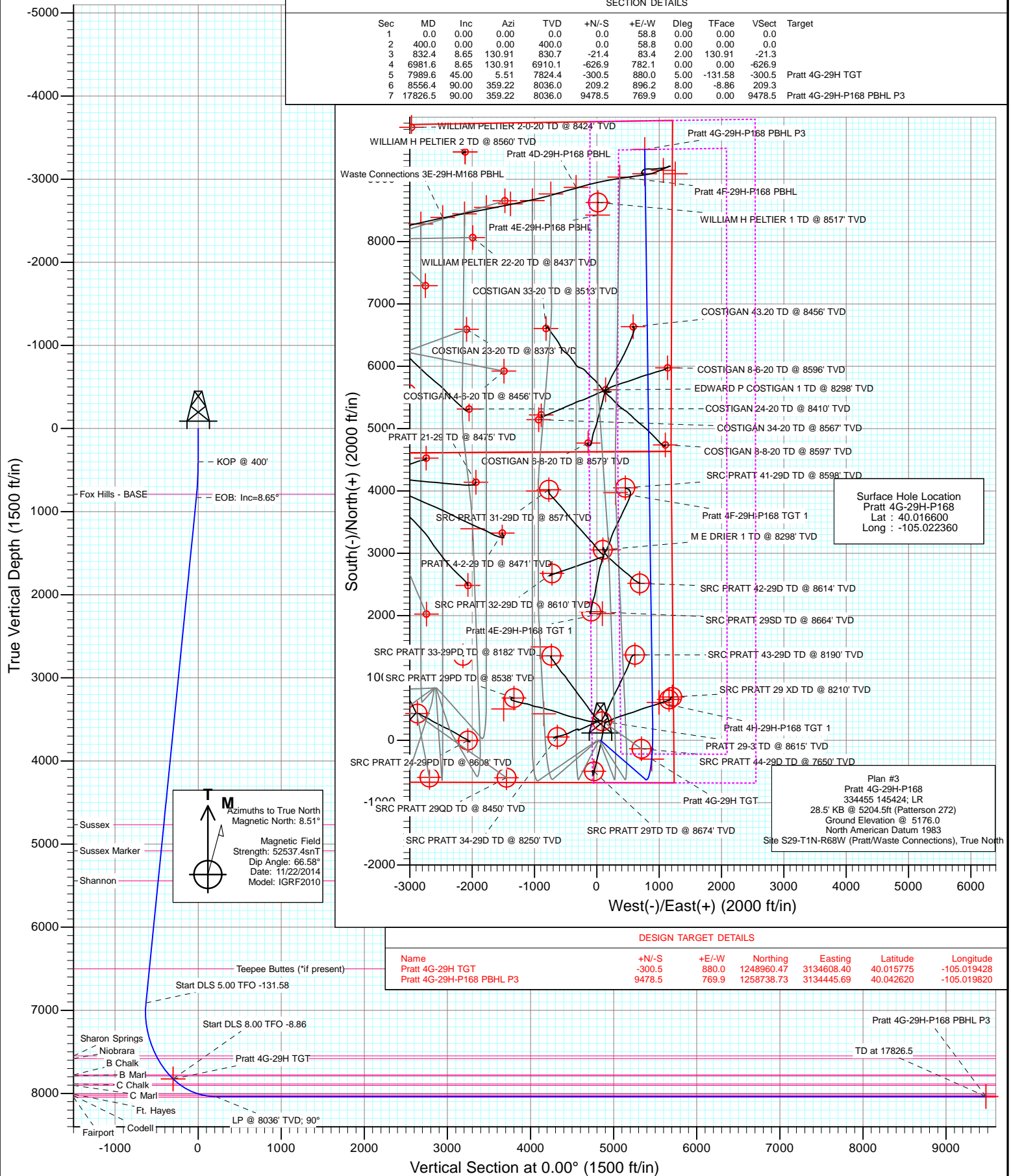




Project: DJ Wattenberg  
Site: S29-T1N-R68W (Pratt/Waste Connections)  
Well: Pratt 4G-29H-P168  
Wellbore: Hz  
Design: Plan #3



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

<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>	Pratt 4G-29H-P168			
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,249,256.52 ft
	<b>+E/-W</b>	58.8 ft	<b>Easting:</b>	3,133,785.61 ft
<b>Position Uncertainty</b>	0.0 ft		<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	5,176.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/22/2014	8.51	66.58	52,537

<b>Design</b>	Plan #3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	58.8	0.00

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	58.8	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	58.8	0.00	0.00	0.00	0.00	
832.4	8.65	130.91	830.7	-21.4	83.4	2.00	2.00	0.00	130.91	
6,981.6	8.65	130.91	6,910.1	-626.9	782.1	0.00	0.00	0.00	0.00	
7,989.6	45.00	5.51	7,824.4	-300.5	880.0	5.00	3.61	-12.44	-131.58	Pratt 4G-29H TGT
8,556.4	90.00	359.22	8,036.0	209.2	896.2	8.00	7.94	-1.11	-8.86	
17,826.5	90.00	359.22	8,036.0	9,478.5	769.9	0.00	0.00	0.00	0.00	Pratt 4G-29H-P168 P

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

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	58.8	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	58.8	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	58.8	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	58.8	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	58.8	0.0	0.00	0.00	KOP @ 400'
500.0	2.00	130.91	500.0	-1.2	60.1	-1.1	2.00	2.00	
600.0	4.00	130.91	599.8	-4.6	64.1	-4.6	2.00	2.00	
700.0	6.00	130.91	699.5	-10.3	70.7	-10.3	2.00	2.00	
790.2	7.80	130.91	789.0	-17.4	78.9	-17.4	2.00	2.00	Fox Hills - BASE
800.0	8.00	130.91	798.7	-18.3	79.9	-18.3	2.00	2.00	
832.4	8.65	130.91	830.7	-21.4	83.4	-21.3	2.00	2.00	EOB: Inc=8.65°
900.0	8.65	130.91	897.6	-28.0	91.1	-28.0	0.00	0.00	
1,000.0	8.65	130.91	996.5	-37.9	102.5	-37.8	0.00	0.00	
1,100.0	8.65	130.91	1,095.3	-47.7	113.8	-47.7	0.00	0.00	
1,200.0	8.65	130.91	1,194.2	-57.6	125.2	-57.5	0.00	0.00	
1,300.0	8.65	130.91	1,293.0	-67.4	136.6	-67.4	0.00	0.00	
1,400.0	8.65	130.91	1,391.9	-77.3	147.9	-77.2	0.00	0.00	
1,500.0	8.65	130.91	1,490.8	-87.1	159.3	-87.1	0.00	0.00	
1,600.0	8.65	130.91	1,589.6	-97.0	170.6	-96.9	0.00	0.00	
1,700.0	8.65	130.91	1,688.5	-106.8	182.0	-106.8	0.00	0.00	
1,800.0	8.65	130.91	1,787.4	-116.7	193.4	-116.6	0.00	0.00	
1,900.0	8.65	130.91	1,886.2	-126.5	204.7	-126.5	0.00	0.00	
2,000.0	8.65	130.91	1,985.1	-136.4	216.1	-136.3	0.00	0.00	
2,100.0	8.65	130.91	2,083.9	-146.2	227.5	-146.2	0.00	0.00	
2,200.0	8.65	130.91	2,182.8	-156.0	238.8	-156.0	0.00	0.00	
2,300.0	8.65	130.91	2,281.7	-165.9	250.2	-165.9	0.00	0.00	
2,400.0	8.65	130.91	2,380.5	-175.7	261.5	-175.7	0.00	0.00	
2,500.0	8.65	130.91	2,479.4	-185.6	272.9	-185.5	0.00	0.00	
2,600.0	8.65	130.91	2,578.3	-195.4	284.3	-195.4	0.00	0.00	
2,700.0	8.65	130.91	2,677.1	-205.3	295.6	-205.2	0.00	0.00	
2,800.0	8.65	130.91	2,776.0	-215.1	307.0	-215.1	0.00	0.00	
2,900.0	8.65	130.91	2,874.9	-225.0	318.4	-224.9	0.00	0.00	
3,000.0	8.65	130.91	2,973.7	-234.8	329.7	-234.8	0.00	0.00	
3,100.0	8.65	130.91	3,072.6	-244.7	341.1	-244.6	0.00	0.00	
3,200.0	8.65	130.91	3,171.4	-254.5	352.4	-254.5	0.00	0.00	
3,300.0	8.65	130.91	3,270.3	-264.4	363.8	-264.3	0.00	0.00	
3,400.0	8.65	130.91	3,369.2	-274.2	375.2	-274.2	0.00	0.00	
3,500.0	8.65	130.91	3,468.0	-284.1	386.5	-284.0	0.00	0.00	
3,600.0	8.65	130.91	3,566.9	-293.9	397.9	-293.9	0.00	0.00	
3,700.0	8.65	130.91	3,665.8	-303.8	409.3	-303.7	0.00	0.00	
3,800.0	8.65	130.91	3,764.6	-313.6	420.6	-313.6	0.00	0.00	
3,900.0	8.65	130.91	3,863.5	-323.5	432.0	-323.4	0.00	0.00	
4,000.0	8.65	130.91	3,962.3	-333.3	443.3	-333.3	0.00	0.00	
4,100.0	8.65	130.91	4,061.2	-343.1	454.7	-343.1	0.00	0.00	
4,200.0	8.65	130.91	4,160.1	-353.0	466.1	-353.0	0.00	0.00	
4,300.0	8.65	130.91	4,258.9	-362.8	477.4	-362.8	0.00	0.00	
4,400.0	8.65	130.91	4,357.8	-372.7	488.8	-372.6	0.00	0.00	
4,500.0	8.65	130.91	4,456.7	-382.5	500.2	-382.5	0.00	0.00	
4,600.0	8.65	130.91	4,555.5	-392.4	511.5	-392.3	0.00	0.00	
4,700.0	8.65	130.91	4,654.4	-402.2	522.9	-402.2	0.00	0.00	
4,800.0	8.65	130.91	4,753.3	-412.1	534.2	-412.0	0.00	0.00	
4,812.9	8.65	130.91	4,766.0	-413.3	535.7	-413.3	0.00	0.00	Sussex

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

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	8.65	130.91	4,852.1	-421.9	545.6	-421.9	0.00	0.00	
5,000.0	8.65	130.91	4,951.0	-431.8	557.0	-431.7	0.00	0.00	
5,100.0	8.65	130.91	5,049.8	-441.6	568.3	-441.6	0.00	0.00	
5,129.5	8.65	130.91	5,079.0	-444.5	571.7	-444.5	0.00	0.00	Sussex Marker
5,200.0	8.65	130.91	5,148.7	-451.5	579.7	-451.4	0.00	0.00	
5,300.0	8.65	130.91	5,247.6	-461.3	591.1	-461.3	0.00	0.00	
5,400.0	8.65	130.91	5,346.4	-471.2	602.4	-471.1	0.00	0.00	
5,497.7	8.65	130.91	5,443.0	-480.8	613.5	-480.7	0.00	0.00	Shannon
5,500.0	8.65	130.91	5,445.3	-481.0	613.8	-481.0	0.00	0.00	
5,600.0	8.65	130.91	5,544.2	-490.9	625.1	-490.8	0.00	0.00	
5,700.0	8.65	130.91	5,643.0	-500.7	636.5	-500.7	0.00	0.00	
5,800.0	8.65	130.91	5,741.9	-510.6	647.9	-510.5	0.00	0.00	
5,900.0	8.65	130.91	5,840.7	-520.4	659.2	-520.4	0.00	0.00	
6,000.0	8.65	130.91	5,939.6	-530.2	670.6	-530.2	0.00	0.00	
6,100.0	8.65	130.91	6,038.5	-540.1	682.0	-540.1	0.00	0.00	
6,200.0	8.65	130.91	6,137.3	-549.9	693.3	-549.9	0.00	0.00	
6,300.0	8.65	130.91	6,236.2	-559.8	704.7	-559.7	0.00	0.00	
6,400.0	8.65	130.91	6,335.1	-569.6	716.0	-569.6	0.00	0.00	
6,500.0	8.65	130.91	6,433.9	-579.5	727.4	-579.4	0.00	0.00	
6,566.8	8.65	130.91	6,500.0	-586.1	735.0	-586.0	0.00	0.00	Teepee Buttes (*if present)
6,600.0	8.65	130.91	6,532.8	-589.3	738.8	-589.3	0.00	0.00	
6,700.0	8.65	130.91	6,631.7	-599.2	750.1	-599.1	0.00	0.00	
6,800.0	8.65	130.91	6,730.5	-609.0	761.5	-609.0	0.00	0.00	
6,900.0	8.65	130.91	6,829.4	-618.9	772.9	-618.8	0.00	0.00	
6,981.6	8.65	130.91	6,910.1	-626.9	782.1	-626.9	0.00	0.00	Start DLS 5.00 TFO -131.58
7,000.0	8.07	126.01	6,928.3	-628.6	784.2	-628.5	5.00	-3.16	
7,100.0	6.46	87.63	7,027.5	-632.5	795.5	-632.4	5.00	-1.61	
7,200.0	8.26	50.28	7,126.7	-627.6	806.7	-627.6	5.00	1.80	
7,300.0	12.02	31.14	7,225.2	-614.1	817.6	-614.1	5.00	3.76	
7,400.0	16.44	21.56	7,322.1	-592.1	828.2	-592.0	5.00	4.43	
7,500.0	21.12	16.05	7,416.8	-561.6	838.4	-561.5	5.00	4.68	
7,600.0	25.92	12.48	7,508.4	-522.9	848.1	-522.8	5.00	4.80	
7,643.3	28.01	11.29	7,547.0	-503.7	852.1	-503.6	5.00	4.84	Sharon Springs
7,681.0	29.85	10.39	7,580.0	-485.8	855.5	-485.7	5.00	4.86	Niobrara
7,700.0	30.77	9.97	7,596.4	-476.3	857.2	-476.3	5.00	4.87	
7,800.0	35.67	8.08	7,680.0	-422.2	865.8	-422.2	5.00	4.89	
7,900.0	40.58	6.60	7,758.7	-361.0	873.6	-361.0	5.00	4.92	
7,923.0	41.72	6.31	7,776.0	-346.0	875.3	-345.9	5.00	4.93	B Chalk
7,939.2	42.51	6.10	7,788.0	-335.2	876.5	-335.1	5.00	4.93	B Marl
7,989.6	45.00	5.51	7,824.4	-300.5	880.0	-300.5	5.00	4.93	Start DLS 8.00 TFO -8.86
8,000.0	45.83	5.33	7,831.7	-293.1	880.7	-293.1	8.00	7.91	
8,079.7	52.13	4.11	7,884.0	-233.2	885.6	-233.2	8.00	7.92	C Chalk
8,100.0	53.74	3.83	7,896.2	-217.1	886.7	-217.0	8.00	7.93	
8,109.8	54.52	3.70	7,902.0	-209.1	887.3	-209.1	8.00	7.93	C Marl
8,200.0	61.68	2.61	7,949.6	-132.7	891.4	-132.7	8.00	7.93	
8,300.0	69.62	1.55	7,990.8	-41.8	894.7	-41.7	8.00	7.94	
8,351.4	73.70	1.06	8,007.0	7.0	895.8	7.1	8.00	7.95	Ft. Hayes
8,400.0	77.57	0.60	8,019.1	54.1	896.5	54.1	8.00	7.95	
8,436.5	80.47	0.27	8,026.0	89.9	896.8	89.9	8.00	7.95	Codell
8,500.0	85.52	359.71	8,033.7	152.9	896.8	153.0	8.00	7.95	
8,556.4	90.00	359.22	8,036.0	209.2	896.2	209.3	8.00	7.95	LP @ 8036' TVD; 90°
8,600.0	90.00	359.22	8,036.0	252.9	895.6	252.9	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,700.0	90.00	359.22	8,036.0	352.8	894.3	352.9	0.00	0.00	
8,800.0	90.00	359.22	8,036.0	452.8	892.9	452.9	0.00	0.00	
8,900.0	90.00	359.22	8,036.0	552.8	891.6	552.9	0.00	0.00	
9,000.0	90.00	359.22	8,036.0	652.8	890.2	652.9	0.00	0.00	
9,100.0	90.00	359.22	8,036.0	752.8	888.8	752.8	0.00	0.00	
9,200.0	90.00	359.22	8,036.0	852.8	887.5	852.8	0.00	0.00	
9,300.0	90.00	359.22	8,036.0	952.8	886.1	952.8	0.00	0.00	
9,400.0	90.00	359.22	8,036.0	1,052.8	884.7	1,052.8	0.00	0.00	
9,500.0	90.00	359.22	8,036.0	1,152.8	883.4	1,152.8	0.00	0.00	
9,600.0	90.00	359.22	8,036.0	1,252.8	882.0	1,252.8	0.00	0.00	
9,700.0	90.00	359.22	8,036.0	1,352.7	880.7	1,352.8	0.00	0.00	
9,800.0	90.00	359.22	8,036.0	1,452.7	879.3	1,452.8	0.00	0.00	
9,900.0	90.00	359.22	8,036.0	1,552.7	877.9	1,552.8	0.00	0.00	
10,000.0	90.00	359.22	8,036.0	1,652.7	876.6	1,652.8	0.00	0.00	
10,100.0	90.00	359.22	8,036.0	1,752.7	875.2	1,752.8	0.00	0.00	
10,200.0	90.00	359.22	8,036.0	1,852.7	873.8	1,852.7	0.00	0.00	
10,300.0	90.00	359.22	8,036.0	1,952.7	872.5	1,952.7	0.00	0.00	
10,400.0	90.00	359.22	8,036.0	2,052.7	871.1	2,052.7	0.00	0.00	
10,500.0	90.00	359.22	8,036.0	2,152.7	869.8	2,152.7	0.00	0.00	
10,600.0	90.00	359.22	8,036.0	2,252.7	868.4	2,252.7	0.00	0.00	
10,700.0	90.00	359.22	8,036.0	2,352.7	867.0	2,352.7	0.00	0.00	
10,800.0	90.00	359.22	8,036.0	2,452.6	865.7	2,452.7	0.00	0.00	
10,900.0	90.00	359.22	8,036.0	2,552.6	864.3	2,552.7	0.00	0.00	
11,000.0	90.00	359.22	8,036.0	2,652.6	862.9	2,652.7	0.00	0.00	
11,100.0	90.00	359.22	8,036.0	2,752.6	861.6	2,752.7	0.00	0.00	
11,200.0	90.00	359.22	8,036.0	2,852.6	860.2	2,852.7	0.00	0.00	
11,300.0	90.00	359.22	8,036.0	2,952.6	858.9	2,952.6	0.00	0.00	
11,400.0	90.00	359.22	8,036.0	3,052.6	857.5	3,052.6	0.00	0.00	
11,500.0	90.00	359.22	8,036.0	3,152.6	856.1	3,152.6	0.00	0.00	
11,600.0	90.00	359.22	8,036.0	3,252.6	854.8	3,252.6	0.00	0.00	
11,700.0	90.00	359.22	8,036.0	3,352.6	853.4	3,352.6	0.00	0.00	
11,800.0	90.00	359.22	8,036.0	3,452.6	852.0	3,452.6	0.00	0.00	
11,900.0	90.00	359.22	8,036.0	3,552.5	850.7	3,552.6	0.00	0.00	
12,000.0	90.00	359.22	8,036.0	3,652.5	849.3	3,652.6	0.00	0.00	
12,100.0	90.00	359.22	8,036.0	3,752.5	848.0	3,752.6	0.00	0.00	
12,200.0	90.00	359.22	8,036.0	3,852.5	846.6	3,852.6	0.00	0.00	
12,300.0	90.00	359.22	8,036.0	3,952.5	845.2	3,952.5	0.00	0.00	
12,400.0	90.00	359.22	8,036.0	4,052.5	843.9	4,052.5	0.00	0.00	
12,500.0	90.00	359.22	8,036.0	4,152.5	842.5	4,152.5	0.00	0.00	
12,600.0	90.00	359.22	8,036.0	4,252.5	841.1	4,252.5	0.00	0.00	
12,700.0	90.00	359.22	8,036.0	4,352.5	839.8	4,352.5	0.00	0.00	
12,800.0	90.00	359.22	8,036.0	4,452.5	838.4	4,452.5	0.00	0.00	
12,900.0	90.00	359.22	8,036.0	4,552.5	837.1	4,552.5	0.00	0.00	
13,000.0	90.00	359.22	8,036.0	4,652.4	835.7	4,652.5	0.00	0.00	
13,100.0	90.00	359.22	8,036.0	4,752.4	834.3	4,752.5	0.00	0.00	
13,200.0	90.00	359.22	8,036.0	4,852.4	833.0	4,852.5	0.00	0.00	
13,300.0	90.00	359.22	8,036.0	4,952.4	831.6	4,952.5	0.00	0.00	
13,400.0	90.00	359.22	8,036.0	5,052.4	830.2	5,052.4	0.00	0.00	
13,500.0	90.00	359.22	8,036.0	5,152.4	828.9	5,152.4	0.00	0.00	
13,600.0	90.00	359.22	8,036.0	5,252.4	827.5	5,252.4	0.00	0.00	
13,700.0	90.00	359.22	8,036.0	5,352.4	826.2	5,352.4	0.00	0.00	
13,800.0	90.00	359.22	8,036.0	5,452.4	824.8	5,452.4	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

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
13,900.0	90.00	359.22	8,036.0	5,552.4	823.4	5,552.4	0.00	0.00	
14,000.0	90.00	359.22	8,036.0	5,652.3	822.1	5,652.4	0.00	0.00	
14,100.0	90.00	359.22	8,036.0	5,752.3	820.7	5,752.4	0.00	0.00	
14,200.0	90.00	359.22	8,036.0	5,852.3	819.3	5,852.4	0.00	0.00	
14,300.0	90.00	359.22	8,036.0	5,952.3	818.0	5,952.4	0.00	0.00	
14,400.0	90.00	359.22	8,036.0	6,052.3	816.6	6,052.4	0.00	0.00	
14,500.0	90.00	359.22	8,036.0	6,152.3	815.3	6,152.3	0.00	0.00	
14,600.0	90.00	359.22	8,036.0	6,252.3	813.9	6,252.3	0.00	0.00	
14,700.0	90.00	359.22	8,036.0	6,352.3	812.5	6,352.3	0.00	0.00	
14,800.0	90.00	359.22	8,036.0	6,452.3	811.2	6,452.3	0.00	0.00	
14,900.0	90.00	359.22	8,036.0	6,552.3	809.8	6,552.3	0.00	0.00	
15,000.0	90.00	359.22	8,036.0	6,652.3	808.5	6,652.3	0.00	0.00	
15,100.0	90.00	359.22	8,036.0	6,752.2	807.1	6,752.3	0.00	0.00	
15,200.0	90.00	359.22	8,036.0	6,852.2	805.7	6,852.3	0.00	0.00	
15,300.0	90.00	359.22	8,036.0	6,952.2	804.4	6,952.3	0.00	0.00	
15,400.0	90.00	359.22	8,036.0	7,052.2	803.0	7,052.3	0.00	0.00	
15,500.0	90.00	359.22	8,036.0	7,152.2	801.6	7,152.3	0.00	0.00	
15,600.0	90.00	359.22	8,036.0	7,252.2	800.3	7,252.2	0.00	0.00	
15,700.0	90.00	359.22	8,036.0	7,352.2	798.9	7,352.2	0.00	0.00	
15,800.0	90.00	359.22	8,036.0	7,452.2	797.6	7,452.2	0.00	0.00	
15,900.0	90.00	359.22	8,036.0	7,552.2	796.2	7,552.2	0.00	0.00	
16,000.0	90.00	359.22	8,036.0	7,652.2	794.8	7,652.2	0.00	0.00	
16,100.0	90.00	359.22	8,036.0	7,752.2	793.5	7,752.2	0.00	0.00	
16,200.0	90.00	359.22	8,036.0	7,852.1	792.1	7,852.2	0.00	0.00	
16,300.0	90.00	359.22	8,036.0	7,952.1	790.7	7,952.2	0.00	0.00	
16,400.0	90.00	359.22	8,036.0	8,052.1	789.4	8,052.2	0.00	0.00	
16,500.0	90.00	359.22	8,036.0	8,152.1	788.0	8,152.2	0.00	0.00	
16,600.0	90.00	359.22	8,036.0	8,252.1	786.7	8,252.1	0.00	0.00	
16,700.0	90.00	359.22	8,036.0	8,352.1	785.3	8,352.1	0.00	0.00	
16,800.0	90.00	359.22	8,036.0	8,452.1	783.9	8,452.1	0.00	0.00	
16,900.0	90.00	359.22	8,036.0	8,552.1	782.6	8,552.1	0.00	0.00	
17,000.0	90.00	359.22	8,036.0	8,652.1	781.2	8,652.1	0.00	0.00	
17,100.0	90.00	359.22	8,036.0	8,752.1	779.8	8,752.1	0.00	0.00	
17,200.0	90.00	359.22	8,036.0	8,852.1	778.5	8,852.1	0.00	0.00	
17,300.0	90.00	359.22	8,036.0	8,952.0	777.1	8,952.1	0.00	0.00	
17,400.0	90.00	359.22	8,036.0	9,052.0	775.8	9,052.1	0.00	0.00	
17,500.0	90.00	359.22	8,036.0	9,152.0	774.4	9,152.1	0.00	0.00	
17,600.0	90.00	359.22	8,036.0	9,252.0	773.0	9,252.1	0.00	0.00	
17,700.0	90.00	359.22	8,036.0	9,352.0	771.7	9,352.0	0.00	0.00	
17,800.0	90.00	359.22	8,036.0	9,452.0	770.3	9,452.0	0.00	0.00	
17,826.5	90.00	359.22	8,036.0	9,478.5	769.9	9,478.5	0.00	0.00	TD at 17826.5

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4G-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #3		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Pratt 4G-29H-P168 PBH	0.00	0.00	8,036.0	9,088.7	1,258.8	1,258,351.60	3,134,936.64	40.041550	-105.018074
- plan misses target center by 483.5ft at 17430.1ft MD (8036.0 TVD, 9082.1 N, 775.3 E)									
- Point									
Pratt 4G-29H-P168 PBH	0.00	0.00	8,036.0	9,478.5	769.9	1,258,738.73	3,134,445.69	40.042620	-105.019820
- plan hits target center									
- Point									
Pratt 4G-29H-P168 PBH	0.00	0.00	8,051.5	9,088.7	767.2	1,258,348.95	3,134,445.00	40.041550	-105.019830
- plan misses target center by 17.5ft at 17436.8ft MD (8036.0 TVD, 9088.8 N, 775.3 E)									
- Point									
Pratt 4G-29H TGT	0.00	0.00	7,824.4	-300.5	880.0	1,248,960.47	3,134,608.40	40.015775	-105.019428
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
790.2	789.0	Fox Hills - BASE				
4,812.9	4,766.0	Sussex				
5,129.5	5,079.0	Sussex Marker				
5,497.7	5,443.0	Shannon				
6,566.8	6,500.0	Teepee Buttes (*if present)				
7,643.3	7,547.0	Sharon Springs				
7,681.0	7,580.0	Niobrara				
7,923.0	7,776.0	B Chalk				
7,939.2	7,788.0	B Marl				
8,079.7	7,884.0	C Chalk				
8,109.8	7,902.0	C Marl				
8,351.4	8,007.0	Ft. Hayes				
8,436.5	8,026.0	Codell				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	58.8	KOP @ 400'
832.4	830.7	-21.4	83.4	EOB: Inc=8.65°
6,981.6	6,910.1	-626.9	782.1	Start DLS 5.00 TFO -131.58
7,989.6	7,824.4	-300.5	880.0	Start DLS 8.00 TFO -8.86
8,556.4	8,036.0	209.2	896.2	LP @ 8036' TVD; 90°
17,826.5	8,036.0	9,478.5	769.9	TD at 17826.5

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

**DJ Wattenberg**

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

**Pratt 4G-29H-P168**

**Hz**

**Plan #3**

## **Anticollision Report**

**20 November, 2014**



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>		<b>Date</b>	11/20/2014		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	17,826.5	Plan #3 (Hz)	MWD	Geolink MWD	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<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						Out of range
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - SURV						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - SURV	14,981.0	8,201.2	229.7	87.6	1.616	CC, ES, SF
COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - SUR	13,118.6	8,164.6	981.4	874.4	9.171	CC, ES
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - SUR	13,300.0	8,169.5	998.0	887.8	9.062	SF
COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SUR	14,317.1	8,161.2	307.8	184.6	2.497	CC, ES, SF
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR	13,080.5	8,256.5	258.4	151.3	2.412	CC, ES
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR	13,100.0	8,256.5	259.2	151.7	2.412	SF
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	13,979.7	8,041.5	681.1	565.3	5.881	CC
EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL	14,000.0	8,041.6	681.4	565.3	5.865	ES, SF
M E DRIER 1 (EXISTING) - SYNERGY WELL - GYRO	11,422.9	8,034.4	759.3	687.5	10.579	CC, ES
M E DRIER 1 (EXISTING) - SYNERGY WELL - GYRO	11,600.0	8,025.1	779.6	704.9	10.429	SF
PRATT 0-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 1 (EXISTING) - SYNERGY WELL - NO SURVEY						Out of range
PRATT 12-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2 (EXISTING) - SYNERGY WELL - NO SURVEY						Out of range
PRATT 2-0-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
PRATT 21-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 22-29 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
PRATT 2-4-29 (EXISTING) - ENCANA WELL - PLAN ON						Out of range
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	400.0	372.5	307.1	305.8	236.447	CC, ES
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	8,900.0	8,008.5	844.4	811.9	25.997	SF
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1	300.0	284.5	47.6	46.7	50.242	CC, ES
Pratt 4B-29H-P168 - Hz - Plan #1	600.0	582.1	58.7	56.7	29.335	SF
Pratt 4C-29H-P168 - Hz - Plan #4 Ext	400.0	400.0	39.2	37.9	30.238	CC, ES
Pratt 4C-29H-P168 - Hz - Plan #4 Ext	600.0	598.7	47.2	45.2	23.596	SF
Pratt 4D-29H-P168 - Hz - Plan #2	400.0	400.0	28.0	26.7	21.599	CC, ES
Pratt 4D-29H-P168 - Hz - Plan #2	600.0	599.6	33.9	31.9	16.965	SF
Pratt 4E-29H-P168 - Hz - Plan #4 Ext	400.0	400.0	19.6	18.3	15.119	CC, ES
Pratt 4E-29H-P168 - Hz - Plan #4 Ext	17,827.1	17,875.1	756.1	418.7	2.241	SF
Pratt 4F-29H-P168 - Hz - Plan #2	400.0	400.0	8.4	7.1	6.480	CC, ES
Pratt 4F-29H-P168 - Hz - Plan #2	17,400.0	17,003.3	601.7	378.6	2.697	SF
PRATT F UNIT 1 (EXISTING) - ENCANA WELL - NO SU						Out of range
SRC PRATT 13-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 14-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 24-29 PD (EXISTING) - SYNERGY WELL -						Out of range
SRC PRATT 29HD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29LD (EXISTING) - SYNERGY WELL - PLA						Out of range
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU	523.9	524.0	317.8	316.0	171.070	CC, ES
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU	1,300.0	1,204.8	479.2	473.5	83.535	SF
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU	10,414.3	8,194.2	971.6	909.5	15.641	CC, ES
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU	10,600.0	8,197.4	989.2	924.0	15.176	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>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	2,348.4	2,386.5	264.8	255.2	27.515	CC
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	2,400.0	2,437.1	265.0	255.1	26.612	ES
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	3,500.0	3,506.2	372.4	353.4	19.539	SF
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - GY	100.0	73.8	285.1	284.9	1,123.800	CC
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - GY	9,036.2	8,145.5	317.3	281.3	8.813	ES
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - GY	9,100.0	8,146.3	323.7	286.9	8.798	SF
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 -	100.0	87.1	342.2	341.9	1,309.817	CC, ES
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	1,600.0	1,475.2	552.1	546.4	98.266	SF
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	434.0	411.1	316.9	315.5	221.858	CC, ES
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	3,100.0	2,978.2	739.2	726.4	57.723	SF
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S	12,395.7	8,185.2	379.5	282.4	3.909	CC
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S	12,400.0	8,185.3	379.5	282.4	3.906	ES, SF
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S	10,874.4	8,131.4	181.2	116.2	2.789	CC, ES, SF
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	9,722.0	8,183.3	273.8	220.6	5.153	CC, ES, SF
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	400.0	376.5	276.3	275.0	211.661	CC
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	7,986.9	7,712.6	277.4	252.2	11.007	ES, SF
Waste Connections 3A-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3B-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3C-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3D-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3E-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3F-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3G-29H-M168 - Hz - Plan #1						Out of range
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -	16,986.9	8,017.5	763.5	595.4	4.540	CC
WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL -	17,000.0	8,017.5	763.6	595.2	4.534	ES, SF
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 12-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	17,400.0	7,975.3	330.2	279.1	6.466	ES, SF
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	17,412.3	7,974.2	330.0	279.2	6.505	CC
WILLIAM PELTIER 2-0-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 22-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 2-4-20 (EXISTING) - ENCANA WELL						Out of range
WILLIAM PELTIER 4-2-20 (EXISTING) - ENCANA WELL						Out of range

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 43-20 (EXISTING) - ENCANA WELL - SURVE													Offset Site Error:	0.0 ft
Survey Program: 88-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
14,100.0	8,036.0	8,196.3	8,043.4	104.9	24.4	-89.74	6,630.1	579.0	910.5	783.7	126.81	7.180		
14,200.0	8,036.0	8,196.8	8,044.0	106.6	24.4	-89.88	6,630.1	579.0	814.1	685.5	128.55	6.333		
14,300.0	8,036.0	8,197.4	8,044.6	108.4	24.4	-90.02	6,630.1	579.0	718.7	588.4	130.29	5.516		
14,400.0	8,036.0	8,197.9	8,045.1	110.1	24.4	-90.16	6,630.1	579.0	624.8	492.7	132.03	4.732		
14,500.0	8,036.0	8,198.5	8,045.7	111.8	24.4	-90.30	6,630.1	579.0	533.0	399.3	133.77	3.985		
14,600.0	8,036.0	8,199.1	8,046.3	113.5	24.4	-90.44	6,630.1	579.0	444.9	309.4	135.51	3.283		
14,700.0	8,036.0	8,199.6	8,046.8	115.3	24.4	-90.58	6,630.2	579.0	363.0	225.7	137.25	2.644		
14,800.0	8,036.0	8,200.2	8,047.4	117.0	24.4	-90.73	6,630.2	579.1	292.5	153.5	138.99	2.104		
14,900.0	8,036.0	8,200.8	8,048.0	118.7	24.4	-90.87	6,630.2	579.1	243.6	102.8	140.73	1.731		
14,981.0	8,036.0	8,201.2	8,048.4	120.1	24.4	-90.98	6,630.2	579.1	229.7	87.6	142.14	1.616	CC, ES, SF	
15,000.0	8,036.0	8,201.3	8,048.5	120.4	24.4	-91.01	6,630.2	579.1	230.5	88.0	142.46	1.618		
15,100.0	8,036.0	8,201.9	8,049.1	122.2	24.4	-91.15	6,630.2	579.1	258.7	114.5	144.20	1.794		
15,200.0	8,036.0	8,202.5	8,049.7	123.9	24.4	-91.29	6,630.2	579.1	317.3	171.4	145.94	2.174		
15,300.0	8,036.0	8,203.0	8,050.2	125.6	24.4	-91.43	6,630.2	579.1	393.1	245.4	147.67	2.662		
15,400.0	8,036.0	8,203.6	8,050.8	127.4	24.4	-91.57	6,630.2	579.1	477.8	328.4	149.41	3.198		
15,500.0	8,036.0	8,204.2	8,051.3	129.1	24.4	-91.71	6,630.2	579.1	567.5	416.4	151.14	3.755		
15,600.0	8,036.0	8,204.7	8,051.9	130.8	24.4	-91.85	6,630.2	579.1	660.2	507.3	152.88	4.319		
15,700.0	8,036.0	8,205.3	8,052.5	132.6	24.4	-91.99	6,630.2	579.1	754.8	600.1	154.61	4.882		
15,800.0	8,036.0	8,205.9	8,053.0	134.3	24.4	-92.13	6,630.2	579.1	850.6	694.2	156.34	5.440		
15,900.0	8,036.0	8,206.4	8,053.6	136.0	24.4	-92.28	6,630.2	579.2	947.2	789.2	158.07	5.992		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - SURV		Offset Site Error:		0.0 ft	
Survey Program: 134-Geolink MWD													Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor							
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
13,000.0	8,036.0	8,161.4	8,067.3	86.1	20.8	-91.04	4,757.6	-147.0	988.5	883.6	104.95	9.418						
13,100.0	8,036.0	8,164.1	8,070.0	87.8	20.8	-91.20	4,757.7	-147.0	981.5	874.9	106.68	9.201						
13,118.6	8,036.0	8,164.6	8,070.5	88.1	20.8	-91.23	4,757.7	-147.0	981.4	874.4	107.00	9.171 CC, ES						
13,200.0	8,036.0	8,166.8	8,072.7	89.5	20.8	-91.36	4,757.7	-146.9	984.7	876.3	108.41	9.084						
13,300.0	8,036.0	8,169.5	8,075.4	91.2	20.8	-91.51	4,757.8	-146.9	998.0	887.8	110.13	9.062 SF						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 134-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)				
13,400.0	8,036.0	8,154.3	8,030.9	92.9	23.8	87.47	5,973.5	1,125.3	967.3	860.0	107.30	9.016		
13,500.0	8,036.0	8,155.1	8,031.6	94.6	23.8	87.61	5,973.5	1,125.3	873.1	764.1	109.04	8.008		
13,600.0	8,036.0	8,155.8	8,032.4	96.3	23.8	87.75	5,973.6	1,125.4	780.3	669.6	110.78	7.044		
13,700.0	8,036.0	8,156.6	8,033.2	98.0	23.8	87.89	5,973.6	1,125.4	689.6	577.1	112.52	6.129		
13,800.0	8,036.0	8,157.3	8,033.9	99.8	23.8	88.03	5,973.6	1,125.4	601.8	487.5	114.26	5.267		
13,900.0	8,036.0	8,158.1	8,034.7	101.5	23.8	88.17	5,973.6	1,125.4	518.4	402.4	116.00	4.469		
14,000.0	8,036.0	8,158.8	8,035.4	103.2	23.8	88.31	5,973.6	1,125.4	441.9	324.2	117.74	3.753		
14,100.0	8,036.0	8,159.6	8,036.2	104.9	23.8	88.45	5,973.6	1,125.4	376.7	257.2	119.48	3.152		
14,200.0	8,036.0	8,160.3	8,036.9	106.6	23.8	88.59	5,973.6	1,125.5	329.3	208.1	121.22	2.717		
14,300.0	8,036.0	8,161.1	8,037.7	108.4	23.8	88.73	5,973.6	1,125.5	308.3	185.3	122.97	2.507		
14,317.1	8,036.0	8,161.2	8,037.8	108.7	23.8	88.75	5,973.6	1,125.5	307.8	184.6	123.26	2.497 CC, ES, SF		
14,400.0	8,036.0	8,161.8	8,038.4	110.1	23.8	88.87	5,973.6	1,125.5	318.8	194.1	124.71	2.556		
14,500.0	8,036.0	8,162.6	8,039.1	111.8	23.8	89.01	5,973.6	1,125.5	358.1	231.6	126.45	2.832		
14,600.0	8,036.0	8,163.3	8,039.9	113.5	23.8	89.14	5,973.6	1,125.5	418.1	289.9	128.19	3.261		
14,700.0	8,036.0	8,164.1	8,040.6	115.3	23.8	89.28	5,973.6	1,125.5	491.3	361.4	129.94	3.781		
14,800.0	8,036.0	8,164.8	8,041.4	117.0	23.8	89.42	5,973.6	1,125.6	572.7	441.0	131.68	4.349		
14,900.0	8,036.0	8,165.5	8,042.1	118.7	23.8	89.56	5,973.6	1,125.6	659.2	525.8	133.42	4.941		
15,000.0	8,036.0	8,166.3	8,042.8	120.4	23.8	89.69	5,973.6	1,125.6	749.1	613.9	135.16	5.542		
15,100.0	8,036.0	8,167.0	8,043.6	122.2	23.8	89.83	5,973.6	1,125.6	841.2	704.3	136.90	6.145		
15,200.0	8,036.0	8,167.7	8,044.3	123.9	23.8	89.97	5,973.6	1,125.6	935.0	796.4	138.64	6.744		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SURV													Offset Site Error:	0.0 ft
Survey Program: 104-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
12,200.0	8,036.0	8,255.3	8,052.5	72.5	26.8	88.89	4,736.5	1,093.0	917.7	825.7	91.94	9.981		
12,300.0	8,036.0	8,255.4	8,052.6	74.2	26.8	88.92	4,736.5	1,093.0	822.2	728.5	93.66	8.779		
12,400.0	8,036.0	8,255.6	8,052.7	75.9	26.8	88.95	4,736.5	1,093.0	727.9	632.6	95.38	7.632		
12,500.0	8,036.0	8,255.7	8,052.9	77.6	26.8	88.98	4,736.5	1,093.0	635.4	538.3	97.10	6.544		
12,600.0	8,036.0	8,255.8	8,053.0	79.3	26.8	89.01	4,736.5	1,093.0	545.6	446.8	98.82	5.521		
12,700.0	8,036.0	8,256.0	8,053.1	81.0	26.8	89.04	4,736.5	1,093.0	460.0	359.4	100.55	4.575		
12,800.0	8,036.0	8,256.1	8,053.3	82.7	26.8	89.07	4,736.5	1,093.0	381.4	279.1	102.27	3.729		
12,900.0	8,036.0	8,256.2	8,053.4	84.4	26.8	89.09	4,736.5	1,093.0	315.2	211.2	104.00	3.031		
13,000.0	8,036.0	8,256.4	8,053.5	86.1	26.8	89.12	4,736.5	1,093.0	270.7	164.9	105.73	2.560		
13,080.5	8,036.0	8,256.5	8,053.6	87.4	26.8	89.15	4,736.5	1,093.0	258.4	151.3	107.12	2.412 CC, ES		
13,100.0	8,036.0	8,256.5	8,053.7	87.8	26.8	89.15	4,736.5	1,093.0	259.2	151.7	107.46	2.412 SF		
13,200.0	8,036.0	8,256.6	8,053.8	89.5	26.8	89.18	4,736.5	1,093.0	284.7	175.5	109.19	2.607		
13,300.0	8,036.0	8,256.8	8,053.9	91.2	26.8	89.21	4,736.5	1,093.0	339.1	228.1	110.92	3.057		
13,400.0	8,036.0	8,256.9	8,054.0	92.9	26.8	89.24	4,736.5	1,093.0	410.9	298.3	112.65	3.648		
13,500.0	8,036.0	8,257.0	8,054.2	94.6	26.8	89.27	4,736.5	1,093.0	492.7	378.3	114.39	4.307		
13,600.0	8,036.0	8,257.2	8,054.3	96.3	26.8	89.30	4,736.5	1,093.0	580.2	464.1	116.12	4.997		
13,700.0	8,036.0	8,257.3	8,054.4	98.0	26.8	89.33	4,736.5	1,093.0	671.2	553.4	117.85	5.695		
13,800.0	8,036.0	8,257.4	8,054.6	99.8	26.8	89.36	4,736.5	1,093.0	764.5	644.9	119.59	6.393		
13,900.0	8,036.0	8,257.6	8,054.7	101.5	26.8	89.39	4,736.5	1,093.0	859.3	737.9	121.33	7.082		
14,000.0	8,036.0	8,257.7	8,054.9	103.2	26.8	89.42	4,736.5	1,093.0	955.1	832.0	123.06	7.761		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-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		
13,300.0	8,036.0	8,038.2	8,037.1	91.2	14.1	-89.46	5,622.7	141.3	962.2	858.2	104.03	9.250		
13,400.0	8,036.0	8,038.7	8,037.6	92.9	14.1	-89.51	5,622.7	141.3	894.4	788.6	105.76	8.457		
13,500.0	8,036.0	8,039.2	8,038.1	94.6	14.1	-89.55	5,622.7	141.3	833.1	725.6	107.50	7.750		
13,600.0	8,036.0	8,039.7	8,038.6	96.3	14.1	-89.59	5,622.7	141.3	779.8	670.6	109.23	7.139		
13,700.0	8,036.0	8,040.2	8,039.1	98.0	14.1	-89.63	5,622.7	141.3	736.3	625.3	110.97	6.635		
13,800.0	8,036.0	8,040.7	8,039.5	99.8	14.1	-89.67	5,622.7	141.3	704.4	591.7	112.70	6.250		
13,900.0	8,036.0	8,041.1	8,040.0	101.5	14.1	-89.71	5,622.7	141.3	685.8	571.3	114.44	5.992		
13,979.7	8,036.0	8,041.5	8,040.4	102.8	14.1	-89.74	5,622.7	141.3	681.1	565.3	115.83	5.881 CC		
14,000.0	8,036.0	8,041.6	8,040.5	103.2	14.1	-89.75	5,622.7	141.3	681.4	565.3	116.18	5.865 ES, SF		
14,100.0	8,036.0	8,042.1	8,041.0	104.9	14.1	-89.79	5,622.7	141.3	691.7	573.8	117.92	5.866		
14,200.0	8,036.0	8,042.6	8,041.4	106.6	14.1	-89.83	5,622.7	141.3	715.9	596.2	119.66	5.983		
14,300.0	8,036.0	8,043.0	8,041.9	108.4	14.1	-89.87	5,622.7	141.3	752.7	631.3	121.40	6.200		
14,400.0	8,036.0	8,043.5	8,042.4	110.1	14.1	-89.91	5,622.7	141.3	800.4	677.3	123.13	6.500		
14,500.0	8,036.0	8,043.9	8,042.8	111.8	14.1	-89.94	5,622.7	141.3	857.1	732.3	124.87	6.864		
14,600.0	8,036.0	8,044.4	8,043.3	113.5	14.1	-89.98	5,622.7	141.3	921.3	794.7	126.62	7.276		
14,700.0	8,036.0	8,044.8	8,043.7	115.3	14.1	-90.02	5,622.7	141.3	991.4	863.0	128.36	7.724		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - M E DRIER 1 (EXISTING) - SYNERGY WELL - GYRO										Offset Site Error:		0.0 ft		
Survey Program: 100-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		
10,800.0	8,036.0	8,065.1	8,063.6	49.5	14.1	-91.82	3,063.7	97.8	981.6	920.3	61.31	16.011		
10,900.0	8,036.0	8,060.4	8,058.9	51.1	14.1	-91.47	3,063.9	97.8	921.5	858.6	62.98	14.633		
11,000.0	8,036.0	8,055.6	8,054.1	52.7	14.1	-91.11	3,064.1	97.9	868.9	804.2	64.66	13.438		
11,100.0	8,036.0	8,050.8	8,049.3	54.3	14.1	-90.74	3,064.3	97.9	824.9	758.6	66.34	12.436		
11,200.0	8,036.0	8,045.8	8,044.3	55.9	14.1	-90.36	3,064.6	97.9	791.2	723.2	68.02	11.633		
11,300.0	8,036.0	8,040.8	8,039.3	57.6	14.1	-89.98	3,064.8	98.0	769.1	699.4	69.70	11.035		
11,400.0	8,036.0	8,035.6	8,034.1	59.2	14.1	-89.60	3,065.1	98.0	759.6	688.2	71.39	10.641		
11,422.9	8,036.0	8,034.4	8,033.0	59.6	14.1	-89.51	3,065.1	98.0	759.3	687.5	71.77	10.579	CC, ES	
11,500.0	8,036.0	8,030.4	8,028.9	60.9	14.0	-89.21	3,065.3	98.0	763.2	690.1	73.07	10.444		
11,600.0	8,036.0	8,025.1	8,023.6	62.5	14.0	-88.81	3,065.6	98.1	779.6	704.9	74.75	10.429	SF	
11,700.0	8,036.0	8,019.7	8,018.2	64.2	14.0	-88.40	3,065.9	98.1	808.1	731.7	76.44	10.573		
11,800.0	8,036.0	8,014.2	8,012.7	65.8	14.0	-87.98	3,066.1	98.2	847.6	769.4	78.12	10.850		
11,900.0	8,036.0	8,008.6	8,007.2	67.5	14.0	-87.56	3,066.4	98.2	896.4	816.6	79.80	11.234		
12,000.0	8,036.0	8,002.9	8,001.5	69.2	14.0	-87.13	3,066.7	98.3	953.2	871.8	81.47	11.700		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURVE														Offset Site Error:	0.0 ft
Survey Program: 8615-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	4.71	306.0	84.0	308.3						
100.0	100.0	72.5	72.5	0.1	0.1	4.71	306.0	84.0	307.1	306.8	0.25	1,220.861			
200.0	200.0	172.5	172.5	0.3	0.3	4.71	306.0	84.0	307.1	306.5	0.60	511.295			
300.0	300.0	272.5	272.5	0.5	0.5	4.71	306.0	84.0	307.1	306.1	0.95	323.358			
400.0	400.0	372.5	372.5	0.6	0.7	4.71	306.0	84.0	307.1	305.8	1.30	236.447 CC, ES			
500.0	500.0	472.5	472.5	0.8	0.8	-126.45	306.0	84.0	308.1	306.5	1.65	186.850			
600.0	599.8	572.3	572.3	1.0	1.0	-127.18	306.0	84.0	311.3	309.2	2.01	155.151			
700.0	699.5	672.0	672.0	1.2	1.2	-128.35	306.0	84.0	316.6	314.2	2.38	133.200			
800.0	798.7	771.2	771.2	1.5	1.3	-129.91	306.0	84.0	324.3	321.6	2.77	117.248			
832.4	830.7	803.2	803.2	1.6	1.4	-130.49	306.0	84.0	327.4	324.5	2.89	113.091			
900.0	897.6	870.1	870.1	1.8	1.5	-131.80	306.0	84.0	334.1	330.9	3.17	105.520			
1,000.0	996.5	969.0	969.0	2.0	1.7	-133.66	306.0	84.0	344.4	340.8	3.57	96.509			
1,100.0	1,095.3	1,067.8	1,067.8	2.3	1.9	-135.40	306.0	84.0	355.0	351.0	3.97	89.448			
1,200.0	1,194.2	1,166.7	1,166.7	2.6	2.0	-137.05	306.0	84.0	365.9	361.5	4.37	83.814			
1,300.0	1,293.0	1,265.5	1,265.5	2.9	2.2	-138.60	306.0	84.0	377.1	372.3	4.76	79.243			
1,400.0	1,391.9	1,364.4	1,364.4	3.2	2.4	-140.06	306.0	84.0	388.6	383.4	5.15	75.480			
1,500.0	1,490.8	1,463.3	1,463.3	3.6	2.6	-141.43	306.0	84.0	400.3	394.7	5.53	72.343			
1,600.0	1,589.6	1,562.1	1,562.1	3.9	2.7	-142.73	306.0	84.0	412.2	406.3	5.91	69.697			
1,700.0	1,688.5	1,661.0	1,661.0	4.2	2.9	-143.96	306.0	84.0	424.3	418.0	6.29	67.443			
1,800.0	1,787.4	1,759.9	1,759.9	4.5	3.1	-145.11	306.0	84.0	436.6	429.9	6.66	65.506			
1,900.0	1,886.2	1,858.7	1,858.7	4.8	3.2	-146.21	306.0	84.0	449.0	442.0	7.04	63.828			
2,000.0	1,985.1	1,957.6	1,957.6	5.1	3.4	-147.24	306.0	84.0	461.6	454.2	7.40	62.363			
2,100.0	2,083.9	2,056.4	2,056.4	5.4	3.6	-148.22	306.0	84.0	474.4	466.6	7.77	61.076			
2,200.0	2,182.8	2,155.3	2,155.3	5.7	3.8	-149.15	306.0	84.0	487.3	479.2	8.13	59.939			
2,300.0	2,281.7	2,254.2	2,254.2	6.1	3.9	-150.03	306.0	84.0	500.3	491.8	8.49	58.928			
2,400.0	2,380.5	2,353.0	2,353.0	6.4	4.1	-150.87	306.0	84.0	513.4	504.6	8.85	58.025			
2,500.0	2,479.4	2,451.9	2,451.9	6.7	4.3	-151.66	306.0	84.0	526.6	517.4	9.20	57.215			
2,600.0	2,578.3	2,550.8	2,550.8	7.0	4.5	-152.42	306.0	84.0	539.9	530.4	9.56	56.485			
2,700.0	2,677.1	2,649.6	2,649.6	7.3	4.6	-153.14	306.0	84.0	553.3	543.4	9.91	55.824			
2,800.0	2,776.0	2,748.5	2,748.5	7.6	4.8	-153.82	306.0	84.0	566.8	556.6	10.26	55.224			
2,900.0	2,874.9	2,847.4	2,847.4	7.9	5.0	-154.47	306.0	84.0	580.4	569.8	10.61	54.677			
3,000.0	2,973.7	2,946.2	2,946.2	8.3	5.1	-155.10	306.0	84.0	594.0	583.1	10.96	54.177			
3,100.0	3,072.6	3,045.1	3,045.1	8.6	5.3	-155.69	306.0	84.0	607.7	596.4	11.31	53.718			
3,200.0	3,171.4	3,143.9	3,143.9	8.9	5.5	-156.26	306.0	84.0	621.5	609.8	11.66	53.295			
3,300.0	3,270.3	3,242.8	3,242.8	9.2	5.7	-156.81	306.0	84.0	635.3	623.3	12.01	52.905			
3,400.0	3,369.2	3,341.7	3,341.7	9.5	5.8	-157.33	306.0	84.0	649.2	636.8	12.35	52.545			
3,500.0	3,468.0	3,440.5	3,440.5	9.8	6.0	-157.83	306.0	84.0	663.1	650.4	12.70	52.210			
3,600.0	3,566.9	3,539.4	3,539.4	10.1	6.2	-158.31	306.0	84.0	677.1	664.0	13.05	51.899			
3,700.0	3,665.8	3,638.3	3,638.3	10.5	6.4	-158.77	306.0	84.0	691.1	677.7	13.39	51.609			
3,800.0	3,764.6	3,737.1	3,737.1	10.8	6.5	-159.21	306.0	84.0	705.1	691.4	13.73	51.339			
3,900.0	3,863.5	3,836.0	3,836.0	11.1	6.7	-159.64	306.0	84.0	719.2	705.1	14.08	51.086			
4,000.0	3,962.3	3,934.8	3,934.8	11.4	6.9	-160.04	306.0	84.0	733.4	718.9	14.42	50.848			
4,100.0	4,061.2	4,033.7	4,033.7	11.7	7.0	-160.44	306.0	84.0	747.5	732.8	14.77	50.625			
4,200.0	4,160.1	4,132.6	4,132.6	12.0	7.2	-160.81	306.0	84.0	761.7	746.6	15.11	50.416			
4,300.0	4,258.9	4,231.4	4,231.4	12.4	7.4	-161.18	306.0	84.0	776.0	760.5	15.45	50.218			
4,400.0	4,357.8	4,330.3	4,330.3	12.7	7.6	-161.53	306.0	84.0	790.2	774.4	15.79	50.032			
4,500.0	4,456.7	4,429.2	4,429.2	13.0	7.7	-161.87	306.0	84.0	804.5	788.4	16.14	49.855			
4,600.0	4,555.5	4,528.0	4,528.0	13.3	7.9	-162.20	306.0	84.0	818.8	802.4	16.48	49.688			
4,700.0	4,654.4	4,626.9	4,626.9	13.6	8.1	-162.51	306.0	84.0	833.2	816.4	16.82	49.530			
4,800.0	4,753.3	4,725.8	4,725.8	13.9	8.2	-162.82	306.0	84.0	847.5	830.4	17.16	49.380			
4,900.0	4,852.1	4,824.6	4,824.6	14.3	8.4	-163.11	306.0	84.0	861.9	844.4	17.51	49.237			
5,000.0	4,951.0	4,923.5	4,923.5	14.6	8.6	-163.40	306.0	84.0	876.3	858.5	17.85	49.101			

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURVE													Offset Site Error:	0.0 ft
Survey Program: 8615-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,049.8	5,022.3	5,022.3	14.9	8.8	-163.67	306.0	84.0	890.8	872.6	18.19	48.972		
5,200.0	5,148.7	5,121.2	5,121.2	15.2	8.9	-163.94	306.0	84.0	905.2	886.7	18.53	48.848		
5,300.0	5,247.6	5,220.1	5,220.1	15.5	9.1	-164.20	306.0	84.0	919.7	900.8	18.87	48.731		
5,400.0	5,346.4	5,318.9	5,318.9	15.8	9.3	-164.45	306.0	84.0	934.2	915.0	19.22	48.618		
5,500.0	5,445.3	5,417.8	5,417.8	16.1	9.5	-164.69	306.0	84.0	948.7	929.1	19.56	48.510		
5,600.0	5,544.2	5,516.7	5,516.7	16.5	9.6	-164.93	306.0	84.0	963.2	943.3	19.90	48.407		
5,700.0	5,643.0	5,615.5	5,615.5	16.8	9.8	-165.16	306.0	84.0	977.8	957.5	20.24	48.308		
5,800.0	5,741.9	5,714.4	5,714.4	17.1	10.0	-165.38	306.0	84.0	992.3	971.7	20.58	48.213		
8,000.0	7,831.7	7,804.2	7,804.2	20.6	13.6	-66.78	306.0	84.0	996.8	970.3	26.53	37.577		
8,050.0	7,865.3	7,837.8	7,837.8	20.6	13.7	-69.12	306.0	84.0	977.7	951.0	26.72	36.592		
8,100.0	7,896.2	7,868.7	7,868.7	20.5	13.7	-71.67	306.0	84.0	958.1	931.1	26.96	35.538		
8,150.0	7,924.4	7,896.9	7,896.9	20.5	13.8	-74.33	306.0	84.0	938.4	911.1	27.23	34.458		
8,200.0	7,949.6	7,922.1	7,922.1	20.5	13.8	-77.02	306.0	84.0	918.9	891.4	27.52	33.393		
8,250.0	7,971.8	7,944.3	7,944.3	20.6	13.9	-79.65	306.0	84.0	900.0	872.2	27.80	32.374		
8,300.0	7,990.8	7,963.3	7,963.3	20.6	13.9	-82.12	306.0	84.0	882.1	854.1	28.07	31.425		
8,350.0	8,006.6	7,979.1	7,979.1	20.7	13.9	-84.37	306.0	84.0	865.5	837.2	28.33	30.555		
8,400.0	8,019.1	7,991.6	7,991.6	20.8	13.9	-86.32	306.0	84.0	850.6	822.1	28.58	29.768		
8,450.0	8,028.1	8,000.6	8,000.6	21.0	14.0	-87.92	306.0	84.0	837.7	808.9	28.83	29.060		
8,500.0	8,033.7	8,006.2	8,006.2	21.1	14.0	-89.13	306.0	84.0	827.0	797.9	29.09	28.430		
8,550.0	8,035.9	8,008.4	8,008.4	21.3	14.0	-89.93	306.0	84.0	818.8	789.4	29.37	27.875		
8,556.4	8,036.0	8,008.5	8,008.5	21.4	14.0	-90.00	306.0	84.0	818.0	788.5	29.41	27.810		
8,600.0	8,036.0	8,008.5	8,008.5	21.6	14.0	-90.00	306.0	84.0	813.4	783.6	29.71	27.379		
8,664.2	8,036.0	8,008.5	8,008.5	21.9	14.0	-90.00	306.0	84.0	810.8	780.6	30.22	26.835		
8,700.0	8,036.0	8,008.5	8,008.5	22.2	14.0	-90.00	306.0	84.0	811.6	781.1	30.50	26.612		
8,800.0	8,036.0	8,008.5	8,008.5	22.9	14.0	-90.00	306.0	84.0	822.1	790.7	31.43	26.157		
8,900.0	8,036.0	8,008.5	8,008.5	23.7	14.0	-90.00	306.0	84.0	844.4	811.9	32.48	25.997 SF		
9,000.0	8,036.0	8,008.5	8,008.5	24.6	14.0	-90.00	306.0	84.0	877.6	844.0	33.63	26.093		
9,100.0	8,036.0	8,008.5	8,008.5	25.6	14.0	-90.00	306.0	84.0	920.5	885.6	34.87	26.399		
9,200.0	8,036.0	8,008.5	8,008.5	26.7	14.0	-90.00	306.0	84.0	971.9	935.7	36.18	26.865		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-29H-P168 - 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	-89.94	0.0	11.2	50.1					
100.0	100.0	84.5	84.5	0.1	0.1	-89.94	0.0	11.2	47.6	47.4	0.25	188.126		
200.0	200.0	184.5	184.5	0.3	0.3	-89.94	0.0	11.2	47.6	47.0	0.60	79.537		
300.0	300.0	284.5	284.5	0.5	0.5	-89.94	0.0	11.2	47.6	46.7	0.95	50.242 CC, ES		
400.0	400.0	383.9	383.9	0.6	0.6	-90.36	-0.3	10.7	48.1	46.8	1.30	37.127		
500.0	500.0	483.1	483.1	0.8	0.8	138.52	-1.6	8.8	51.4	49.7	1.65	31.224		
600.0	599.8	582.1	582.0	1.0	1.0	139.61	-3.9	5.5	58.7	56.7	2.00	29.335 SF		
700.0	699.5	680.5	680.2	1.2	1.2	141.37	-7.1	0.8	70.1	67.7	2.37	29.626		
800.0	798.7	778.2	777.6	1.5	1.4	143.27	-11.2	-5.3	85.7	82.9	2.75	31.198		
832.4	830.7	809.6	809.0	1.6	1.5	143.85	-12.7	-7.5	91.6	88.7	2.87	31.905		
900.0	897.6	875.1	874.1	1.8	1.6	144.90	-16.2	-12.6	104.7	101.6	3.14	33.357		
1,000.0	996.5	971.5	969.9	2.0	1.9	145.62	-22.1	-21.3	125.3	121.7	3.55	35.309		
1,100.0	1,095.3	1,067.4	1,065.1	2.3	2.1	145.71	-28.8	-31.2	147.0	143.1	3.97	37.055		
1,200.0	1,194.2	1,162.7	1,159.5	2.6	2.4	145.41	-36.4	-42.4	170.0	165.6	4.40	38.635		
1,300.0	1,293.0	1,257.4	1,253.0	2.9	2.7	144.87	-44.9	-54.8	194.2	189.4	4.85	40.083		
1,400.0	1,391.9	1,351.5	1,345.6	3.2	3.0	144.18	-54.1	-68.4	219.7	214.4	5.30	41.449		
1,500.0	1,490.8	1,447.7	1,440.2	3.6	3.3	143.47	-64.0	-83.0	245.9	240.1	5.77	42.639		
1,600.0	1,589.6	1,544.2	1,535.0	3.9	3.6	142.90	-74.0	-97.7	272.1	265.9	6.24	43.635		
1,700.0	1,688.5	1,640.6	1,629.8	4.2	4.0	142.43	-84.0	-112.4	298.4	291.7	6.71	44.480		
1,800.0	1,787.4	1,737.1	1,724.6	4.5	4.3	142.04	-94.0	-127.0	324.7	317.5	7.18	45.205		
1,900.0	1,886.2	1,833.6	1,819.5	4.8	4.7	141.70	-103.9	-141.7	351.0	343.3	7.66	45.834		
2,000.0	1,985.1	1,930.0	1,914.3	5.1	5.0	141.41	-113.9	-156.4	377.3	369.1	8.13	46.384		
2,100.0	2,083.9	2,026.5	2,009.1	5.4	5.4	141.16	-123.9	-171.1	403.6	395.0	8.61	46.869		
2,200.0	2,182.8	2,123.0	2,103.9	5.7	5.7	140.94	-133.9	-185.8	429.9	420.8	9.09	47.300		
2,300.0	2,281.7	2,219.4	2,198.7	6.1	6.0	140.75	-143.9	-200.5	456.2	446.6	9.57	47.686		
2,400.0	2,380.5	2,315.9	2,293.5	6.4	6.4	140.57	-153.8	-215.1	482.5	472.5	10.05	48.032		
2,500.0	2,479.4	2,412.4	2,388.4	6.7	6.7	140.42	-163.8	-229.8	508.8	498.3	10.53	48.345		
2,600.0	2,578.3	2,508.8	2,483.2	7.0	7.1	140.28	-173.8	-244.5	535.2	524.2	11.00	48.629		
2,700.0	2,677.1	2,605.3	2,578.0	7.3	7.4	140.15	-183.8	-259.2	561.5	550.0	11.49	48.888		
2,800.0	2,776.0	2,701.8	2,672.8	7.6	7.8	140.03	-193.8	-273.9	587.8	575.9	11.97	49.125		
2,900.0	2,874.9	2,798.2	2,767.6	7.9	8.2	139.93	-203.7	-288.5	614.2	601.7	12.45	49.343		
3,000.0	2,973.7	2,894.7	2,862.4	8.3	8.5	139.83	-213.7	-303.2	640.5	627.6	12.93	49.544		
3,100.0	3,072.6	2,991.2	2,957.3	8.6	8.9	139.74	-223.7	-317.9	666.8	653.4	13.41	49.730		
3,200.0	3,171.4	3,087.6	3,052.1	8.9	9.2	139.66	-233.7	-332.6	693.2	679.3	13.89	49.902		
3,300.0	3,270.3	3,184.1	3,146.9	9.2	9.6	139.58	-243.6	-347.3	719.5	705.1	14.37	50.062		
3,400.0	3,369.2	3,280.5	3,241.7	9.5	9.9	139.51	-253.6	-361.9	745.8	731.0	14.85	50.212		
3,500.0	3,468.0	3,377.0	3,336.5	9.8	10.3	139.44	-263.6	-376.6	772.2	756.9	15.34	50.351		
3,600.0	3,566.9	3,473.5	3,431.3	10.1	10.6	139.38	-273.6	-391.3	798.5	782.7	15.82	50.482		
3,700.0	3,665.8	3,569.9	3,526.2	10.5	11.0	139.32	-283.6	-406.0	824.9	808.6	16.30	50.605		
3,800.0	3,764.6	3,666.4	3,621.0	10.8	11.3	139.27	-293.5	-420.7	851.2	834.4	16.78	50.720		
3,900.0	3,863.5	3,762.9	3,715.8	11.1	11.7	139.22	-303.5	-435.3	877.6	860.3	17.27	50.829		
4,000.0	3,962.3	3,859.3	3,810.6	11.4	12.0	139.17	-313.5	-450.0	903.9	886.2	17.75	50.932		
4,100.0	4,061.2	3,955.8	3,905.4	11.7	12.4	139.12	-323.5	-464.7	930.3	912.0	18.23	51.028		
4,200.0	4,160.1	4,052.3	4,000.2	12.0	12.7	139.08	-333.5	-479.4	956.6	937.9	18.71	51.120		
4,300.0	4,258.9	4,148.7	4,095.1	12.4	13.1	139.04	-343.4	-494.1	982.9	963.8	19.20	51.207		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	19.6	39.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	19.6	39.2	39.0	0.25	157.111		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	19.6	39.2	38.6	0.60	65.501		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	19.6	39.2	38.3	0.95	41.375		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	19.6	39.2	37.9	1.30	30.238 CC, ES		
500.0	500.0	499.4	499.4	0.8	0.8	139.91	-0.6	19.0	41.2	39.5	1.65	25.031		
600.0	599.8	598.7	598.7	1.0	1.0	141.82	-2.3	17.0	47.2	45.2	2.00	23.596 SF		
700.0	699.5	697.5	697.4	1.2	1.2	144.10	-5.0	13.8	57.2	54.8	2.36	24.228		
800.0	798.7	795.7	795.4	1.5	1.4	146.19	-8.9	9.2	71.3	68.6	2.74	26.078		
832.4	830.7	827.4	827.0	1.6	1.4	146.78	-10.4	7.5	76.8	73.9	2.86	26.855		
900.0	897.6	893.3	892.7	1.8	1.6	147.73	-13.8	3.5	88.9	85.7	3.12	28.450		
1,000.0	996.5	990.4	989.4	2.0	1.8	148.16	-19.8	-3.4	107.7	104.1	3.53	30.521		
1,100.0	1,095.3	1,087.1	1,085.5	2.3	2.0	147.89	-26.8	-11.6	127.5	123.6	3.95	32.312		
1,200.0	1,194.2	1,183.4	1,181.0	2.6	2.3	147.20	-34.9	-20.9	148.5	144.1	4.38	33.881		
1,300.0	1,293.0	1,279.9	1,276.4	2.9	2.5	146.28	-43.9	-31.4	170.4	165.6	4.83	35.284		
1,400.0	1,391.9	1,377.3	1,372.8	3.2	2.8	145.50	-53.2	-42.3	192.6	187.4	5.29	36.436		
1,500.0	1,490.8	1,474.8	1,469.3	3.6	3.1	144.87	-62.6	-53.1	214.9	209.1	5.75	37.386		
1,600.0	1,589.6	1,572.3	1,565.7	3.9	3.4	144.36	-71.9	-64.0	237.1	230.9	6.21	38.181		
1,700.0	1,688.5	1,669.8	1,662.1	4.2	3.7	143.94	-81.2	-74.8	259.4	252.7	6.68	38.855		
1,800.0	1,787.4	1,767.2	1,758.5	4.5	4.0	143.59	-90.5	-85.6	281.7	274.6	7.14	39.433		
1,900.0	1,886.2	1,864.7	1,854.9	4.8	4.3	143.29	-99.9	-96.5	304.0	296.4	7.61	39.933		
2,000.0	1,985.1	1,962.2	1,951.3	5.1	4.6	143.03	-109.2	-107.3	326.3	318.2	8.08	40.370		
2,100.0	2,083.9	2,059.6	2,047.8	5.4	4.9	142.80	-118.5	-118.2	348.6	340.1	8.55	40.755		
2,200.0	2,182.8	2,157.1	2,144.2	5.7	5.1	142.60	-127.9	-129.0	370.9	361.9	9.03	41.096		
2,300.0	2,281.7	2,254.6	2,240.6	6.1	5.4	142.43	-137.2	-139.9	393.2	383.7	9.50	41.402		
2,400.0	2,380.5	2,352.1	2,337.0	6.4	5.7	142.27	-146.5	-150.7	415.6	405.6	9.97	41.675		
2,500.0	2,479.4	2,449.5	2,433.4	6.7	6.0	142.13	-155.8	-161.5	437.9	427.4	10.45	41.923		
2,600.0	2,578.3	2,547.0	2,529.8	7.0	6.3	142.00	-165.2	-172.4	460.2	449.3	10.92	42.147		
2,700.0	2,677.1	2,644.5	2,626.3	7.3	6.6	141.88	-174.5	-183.2	482.5	471.1	11.39	42.352		
2,800.0	2,776.0	2,741.9	2,722.7	7.6	6.9	141.78	-183.8	-194.1	504.9	493.0	11.87	42.539		
2,900.0	2,874.9	2,839.4	2,819.1	7.9	7.2	141.68	-193.1	-204.9	527.2	514.8	12.34	42.710		
3,000.0	2,973.7	2,936.9	2,915.5	8.3	7.5	141.59	-202.5	-215.8	549.5	536.7	12.82	42.868		
3,100.0	3,072.6	3,034.4	3,011.9	8.6	7.8	141.51	-211.8	-226.6	571.9	558.6	13.29	43.015		
3,200.0	3,171.4	3,131.8	3,108.3	8.9	8.1	141.43	-221.1	-237.4	594.2	580.4	13.77	43.150		
3,300.0	3,270.3	3,229.3	3,204.8	9.2	8.4	141.36	-230.5	-248.3	616.5	602.3	14.25	43.276		
3,400.0	3,369.2	3,326.8	3,301.2	9.5	8.7	141.29	-239.8	-259.1	638.9	624.1	14.72	43.393		
3,500.0	3,468.0	3,424.2	3,397.6	9.8	9.0	141.23	-249.1	-270.0	661.2	646.0	15.20	43.503		
3,600.0	3,566.9	3,521.7	3,494.0	10.1	9.3	141.18	-258.4	-280.8	683.5	667.9	15.68	43.605		
3,700.0	3,665.8	3,619.2	3,590.4	10.5	9.6	141.12	-267.8	-291.6	705.9	689.7	16.15	43.702		
3,800.0	3,764.6	3,716.7	3,686.8	10.8	9.9	141.07	-277.1	-302.5	728.2	711.6	16.63	43.792		
3,900.0	3,863.5	3,814.1	3,783.3	11.1	10.2	141.03	-286.4	-313.3	750.5	733.4	17.11	43.877		
4,000.0	3,962.3	3,911.6	3,879.7	11.4	10.5	140.98	-295.7	-324.2	772.9	755.3	17.58	43.957		
4,100.0	4,061.2	4,009.1	3,976.1	11.7	10.9	140.94	-305.1	-335.0	795.2	777.2	18.06	44.033		
4,200.0	4,160.1	4,106.5	4,072.5	12.0	11.2	140.90	-314.4	-345.9	817.6	799.0	18.54	44.105		
4,300.0	4,258.9	4,204.0	4,168.9	12.4	11.5	140.86	-323.7	-356.7	839.9	820.9	19.01	44.173		
4,400.0	4,357.8	4,301.5	4,265.3	12.7	11.8	140.83	-333.1	-367.5	862.2	842.7	19.49	44.238		
4,500.0	4,456.7	4,399.0	4,361.8	13.0	12.1	140.79	-342.4	-378.4	884.6	864.6	19.97	44.299		
4,600.0	4,555.5	4,496.4	4,458.2	13.3	12.4	140.76	-351.7	-389.2	906.9	886.5	20.45	44.357		
4,700.0	4,654.4	4,593.9	4,554.6	13.6	12.7	140.73	-361.0	-400.1	929.3	908.3	20.92	44.413		
4,800.0	4,753.3	4,691.4	4,651.0	13.9	13.0	140.70	-370.4	-410.9	951.6	930.2	21.40	44.466		
4,900.0	4,852.1	4,788.8	4,747.4	14.3	13.3	140.67	-379.7	-421.8	973.9	952.1	21.88	44.516		
5,000.0	4,951.0	4,886.3	4,843.8	14.6	13.6	140.64	-389.0	-432.6	996.3	973.9	22.36	44.565		

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>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2													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	-89.95	0.0	30.8	28.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	30.8	28.0	27.8	0.25	112.222		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	30.8	28.0	27.4	0.60	46.786		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	30.8	28.0	27.1	0.95	29.554		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	30.8	28.0	26.7	1.30	21.599	CC, ES	
500.0	500.0	500.0	500.0	0.8	0.8	141.35	0.0	30.8	29.4	27.7	1.65	17.828		
600.0	599.8	599.6	599.6	1.0	1.0	145.47	-0.8	30.4	33.9	31.9	2.00	16.965	SF	
700.0	699.5	699.1	699.0	1.2	1.2	148.76	-3.1	29.2	42.1	39.7	2.36	17.865		
800.0	798.7	798.1	798.0	1.5	1.4	150.93	-7.0	27.2	53.9	51.1	2.72	19.780		
832.4	830.7	830.1	829.9	1.6	1.4	151.42	-8.6	26.4	58.4	55.6	2.84	20.539		
900.0	897.6	896.8	896.4	1.8	1.5	151.98	-12.4	24.5	68.5	65.4	3.11	22.043		
1,000.0	996.5	995.3	994.7	2.0	1.7	151.60	-19.2	21.0	83.6	80.1	3.51	23.836		
1,100.0	1,095.3	1,093.6	1,092.5	2.3	2.0	150.37	-27.6	16.7	99.3	95.3	3.94	25.225		
1,200.0	1,194.2	1,191.9	1,190.2	2.6	2.2	148.68	-37.5	11.6	115.4	111.0	4.38	26.325		
1,300.0	1,293.0	1,290.5	1,288.1	2.9	2.4	147.20	-47.8	6.3	131.8	126.9	4.85	27.197		
1,400.0	1,391.9	1,389.1	1,386.0	3.2	2.7	146.05	-58.0	1.1	148.2	142.9	5.31	27.897		
1,500.0	1,490.8	1,487.7	1,483.9	3.6	2.9	145.13	-68.3	-4.2	164.7	158.9	5.79	28.468		
1,600.0	1,589.6	1,586.3	1,581.9	3.9	3.2	144.38	-78.6	-9.5	181.2	175.0	6.26	28.940		
1,700.0	1,688.5	1,684.9	1,679.8	4.2	3.4	143.75	-88.9	-14.7	197.8	191.0	6.74	29.337		
1,800.0	1,787.4	1,783.5	1,777.7	4.5	3.7	143.22	-99.2	-20.0	214.3	207.1	7.22	29.675		
1,900.0	1,886.2	1,882.1	1,875.6	4.8	3.9	142.77	-109.5	-25.3	230.9	223.2	7.71	29.965		
2,000.0	1,985.1	1,980.7	1,973.6	5.1	4.2	142.38	-119.7	-30.6	247.5	239.3	8.19	30.217		
2,100.0	2,083.9	2,079.3	2,071.5	5.4	4.5	142.03	-130.0	-35.8	264.1	255.4	8.68	30.438		
2,200.0	2,182.8	2,177.9	2,169.4	5.7	4.7	141.73	-140.3	-41.1	280.7	271.5	9.16	30.633		
2,300.0	2,281.7	2,276.5	2,267.3	6.1	5.0	141.46	-150.6	-46.4	297.3	287.6	9.65	30.806		
2,400.0	2,380.5	2,375.1	2,365.2	6.4	5.2	141.22	-160.9	-51.6	313.9	303.8	10.14	30.961		
2,500.0	2,479.4	2,473.7	2,463.2	6.7	5.5	141.00	-171.2	-56.9	330.5	319.9	10.63	31.100		
2,600.0	2,578.3	2,572.3	2,561.1	7.0	5.8	140.81	-181.4	-62.2	347.2	336.0	11.12	31.226		
2,700.0	2,677.1	2,670.9	2,659.0	7.3	6.0	140.63	-191.7	-67.5	363.8	352.2	11.61	31.340		
2,800.0	2,776.0	2,769.5	2,756.9	7.6	6.3	140.47	-202.0	-72.7	380.4	368.3	12.10	31.444		
2,900.0	2,874.9	2,868.1	2,854.9	7.9	6.5	140.32	-212.3	-78.0	397.1	384.5	12.59	31.539		
3,000.0	2,973.7	2,966.7	2,952.8	8.3	6.8	140.18	-222.6	-83.3	413.7	400.6	13.08	31.626		
3,100.0	3,072.6	3,065.3	3,050.7	8.6	7.1	140.06	-232.9	-88.5	430.3	416.8	13.57	31.707		
3,200.0	3,171.4	3,163.9	3,148.6	8.9	7.3	139.94	-243.1	-93.8	447.0	432.9	14.06	31.781		
3,300.0	3,270.3	3,262.5	3,246.5	9.2	7.6	139.83	-253.4	-99.1	463.6	449.1	14.56	31.851		
3,400.0	3,369.2	3,361.1	3,344.5	9.5	7.9	139.73	-263.7	-104.4	480.3	465.2	15.05	31.915		
3,500.0	3,468.0	3,459.7	3,442.4	9.8	8.1	139.64	-274.0	-109.6	496.9	481.4	15.54	31.975		
3,600.0	3,566.9	3,558.3	3,540.3	10.1	8.4	139.55	-284.3	-114.9	513.6	497.5	16.03	32.031		
3,700.0	3,665.8	3,656.9	3,638.2	10.5	8.6	139.46	-294.6	-120.2	530.2	513.7	16.53	32.083		
3,800.0	3,764.6	3,755.5	3,736.1	10.8	8.9	139.39	-304.8	-125.4	546.9	529.9	17.02	32.132		
3,900.0	3,863.5	3,854.1	3,834.1	11.1	9.2	139.31	-315.1	-130.7	563.5	546.0	17.51	32.178		
4,000.0	3,962.3	3,952.7	3,932.0	11.4	9.4	139.25	-325.4	-136.0	580.2	562.2	18.01	32.222		
4,100.0	4,061.2	4,051.3	4,029.9	11.7	9.7	139.18	-335.7	-141.3	596.8	578.3	18.50	32.263		
4,200.0	4,160.1	4,149.9	4,127.8	12.0	10.0	139.12	-346.0	-146.5	613.5	594.5	18.99	32.301		
4,300.0	4,258.9	4,248.5	4,225.8	12.4	10.2	139.06	-356.3	-151.8	630.1	610.7	19.49	32.338		
4,400.0	4,357.8	4,347.1	4,323.7	12.7	10.5	139.01	-366.5	-157.1	646.8	626.8	19.98	32.373		
4,500.0	4,456.7	4,445.7	4,421.6	13.0	10.8	138.95	-376.8	-162.3	663.4	643.0	20.47	32.406		
4,600.0	4,555.5	4,544.3	4,519.5	13.3	11.0	138.90	-387.1	-167.6	680.1	659.1	20.97	32.437		
4,700.0	4,654.4	4,642.9	4,617.4	13.6	11.3	138.86	-397.4	-172.9	696.8	675.3	21.46	32.467		
4,800.0	4,753.3	4,741.5	4,715.4	13.9	11.5	138.81	-407.7	-178.2	713.4	691.5	21.95	32.495		
4,900.0	4,852.1	4,840.1	4,813.3	14.3	11.8	138.77	-418.0	-183.4	730.1	707.6	22.45	32.522		
5,000.0	4,951.0	4,938.7	4,911.2	14.6	12.1	138.73	-428.3	-188.7	746.7	723.8	22.94	32.548		

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>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2													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		
5,100.0	5,049.8	5,037.3	5,009.1	14.9	12.3	138.69	-438.5	-194.0	763.4	740.0	23.44	32.573		
5,200.0	5,148.7	5,135.9	5,107.1	15.2	12.6	138.65	-448.8	-199.2	780.1	756.1	23.93	32.596		
5,300.0	5,247.6	5,234.5	5,205.0	15.5	12.9	138.61	-459.1	-204.5	796.7	772.3	24.42	32.619		
5,400.0	5,346.4	5,333.1	5,302.9	15.8	13.1	138.58	-469.4	-209.8	813.4	788.5	24.92	32.641		
5,500.0	5,445.3	5,431.7	5,400.8	16.1	13.4	138.55	-479.7	-215.1	830.0	804.6	25.41	32.662		
5,600.0	5,544.2	5,530.3	5,498.7	16.5	13.7	138.51	-490.0	-220.3	846.7	820.8	25.91	32.681		
5,700.0	5,643.0	5,628.9	5,596.7	16.8	13.9	138.48	-500.2	-225.6	863.3	836.9	26.40	32.701		
5,800.0	5,741.9	5,727.6	5,694.6	17.1	14.2	138.45	-510.5	-230.9	880.0	853.1	26.90	32.719		
5,900.0	5,840.7	5,826.2	5,792.5	17.4	14.5	138.43	-520.8	-236.1	896.7	869.3	27.39	32.737		
6,000.0	5,939.6	5,924.8	5,890.4	17.7	14.7	138.40	-531.1	-241.4	913.3	885.4	27.88	32.754		
6,100.0	6,038.5	6,023.4	5,988.4	18.0	15.0	138.37	-541.4	-246.7	930.0	901.6	28.38	32.770		
6,200.0	6,137.3	6,122.0	6,086.3	18.4	15.3	138.35	-551.7	-252.0	946.7	917.8	28.87	32.786		
6,300.0	6,236.2	6,220.6	6,184.2	18.7	15.5	138.32	-561.9	-257.2	963.3	933.9	29.37	32.802		
6,400.0	6,335.1	6,319.2	6,282.1	19.0	15.8	138.30	-572.2	-262.5	980.0	950.1	29.86	32.816		
6,500.0	6,433.9	6,417.8	6,380.0	19.3	16.0	138.27	-582.5	-267.8	996.6	966.3	30.36	32.831		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	39.2	19.6					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	39.2	19.6	19.4	0.25	78.555		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	39.2	19.6	19.0	0.60	32.750		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	39.2	19.6	18.7	0.95	20.688		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	39.2	19.6	18.3	1.30	15.119 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	142.24	0.0	39.2	21.0	19.3	1.65	12.730		
600.0	599.8	599.8	599.8	1.0	1.0	149.47	0.0	39.2	25.3	23.3	2.00	12.669		
700.0	699.5	699.5	699.5	1.2	1.2	157.09	0.0	39.2	33.1	30.8	2.35	14.114		
800.0	798.7	798.7	798.7	1.5	1.3	163.13	0.0	39.2	44.6	41.9	2.69	16.577		
832.4	830.7	830.7	830.7	1.6	1.4	164.69	0.0	39.2	49.1	46.3	2.80	17.536		
900.0	897.6	897.6	897.6	1.8	1.5	167.30	0.0	39.2	59.0	55.9	3.03	19.436		
1,000.0	996.5	996.5	996.5	2.0	1.7	169.87	0.0	39.2	73.7	70.3	3.38	21.809		
1,100.0	1,095.3	1,095.3	1,095.3	2.3	1.9	171.58	0.0	39.2	88.6	84.8	3.73	23.769		
1,200.0	1,194.2	1,194.2	1,194.2	2.6	2.0	172.80	0.0	39.2	103.5	99.4	4.07	25.409		
1,300.0	1,293.0	1,293.0	1,293.0	2.9	2.2	173.71	0.0	39.2	118.4	114.0	4.42	26.800		
1,400.0	1,391.9	1,391.9	1,391.9	3.2	2.4	174.42	0.0	39.2	133.4	128.6	4.76	27.995		
1,500.0	1,490.8	1,490.8	1,490.8	3.6	2.6	174.98	0.0	39.2	148.3	143.2	5.11	29.030		
1,600.0	1,589.6	1,589.6	1,589.6	3.9	2.7	175.44	0.0	39.2	163.3	157.9	5.46	29.936		
1,700.0	1,688.5	1,688.5	1,688.5	4.2	2.9	175.83	0.0	39.2	178.3	172.5	5.80	30.735		
1,800.0	1,787.4	1,787.4	1,787.4	4.5	3.1	176.15	0.0	39.2	193.3	187.2	6.15	31.445		
1,900.0	1,886.2	1,886.2	1,886.2	4.8	3.2	176.43	0.0	39.2	208.3	201.8	6.49	32.081		
2,000.0	1,985.1	1,985.1	1,985.1	5.1	3.4	176.67	0.0	39.2	223.3	216.5	6.84	32.652		
2,100.0	2,083.9	2,087.0	2,087.0	5.4	3.6	176.80	-0.6	39.5	237.8	230.6	7.19	33.066		
2,200.0	2,182.8	2,190.0	2,189.9	5.7	3.8	176.71	-3.0	40.3	250.8	243.2	7.55	33.229		
2,300.0	2,281.7	2,293.2	2,293.1	6.1	4.0	176.41	-7.0	41.9	262.2	254.3	7.90	33.172		
2,400.0	2,380.5	2,396.8	2,396.5	6.4	4.1	175.92	-12.8	44.2	272.1	263.8	8.27	32.923		
2,500.0	2,479.4	2,500.7	2,500.0	6.7	4.3	175.27	-20.4	47.1	280.5	271.9	8.63	32.501		
2,600.0	2,578.3	2,604.7	2,603.6	7.0	4.5	174.45	-29.8	50.7	287.5	278.5	9.00	31.924		
2,700.0	2,677.1	2,708.8	2,707.0	7.3	4.8	173.46	-40.9	55.0	292.9	283.6	9.39	31.207		
2,800.0	2,776.0	2,811.9	2,809.2	7.6	5.0	172.32	-53.5	59.9	297.1	287.3	9.78	30.375		
2,900.0	2,874.9	2,911.7	2,908.0	7.9	5.2	171.18	-66.3	64.9	300.9	290.7	10.18	29.568		
3,000.0	2,973.7	3,011.4	3,006.8	8.3	5.4	170.07	-79.1	69.8	304.8	294.2	10.58	28.809		
3,100.0	3,072.6	3,111.2	3,105.6	8.6	5.7	169.00	-91.8	74.8	308.8	297.8	10.99	28.093		
3,200.0	3,171.4	3,210.9	3,204.5	8.9	5.9	167.94	-104.6	79.7	313.0	301.6	11.41	27.418		
3,300.0	3,270.3	3,310.7	3,303.3	9.2	6.2	166.92	-117.3	84.7	317.2	305.4	11.85	26.779		
3,400.0	3,369.2	3,410.4	3,402.1	9.5	6.4	165.93	-130.1	89.6	321.5	309.3	12.28	26.175		
3,500.0	3,468.0	3,510.2	3,500.9	9.8	6.7	164.96	-142.9	94.6	326.0	313.3	12.73	25.603		
3,600.0	3,566.9	3,609.9	3,599.7	10.1	6.9	164.01	-155.6	99.5	330.5	317.3	13.19	25.061		
3,700.0	3,665.8	3,709.7	3,698.5	10.5	7.2	163.10	-168.4	104.4	335.1	321.5	13.65	24.548		
3,800.0	3,764.6	3,809.4	3,797.3	10.8	7.5	162.20	-181.1	109.4	339.8	325.7	14.12	24.062		
3,900.0	3,863.5	3,909.2	3,896.1	11.1	7.7	161.34	-193.9	114.3	344.6	330.0	14.60	23.600		
4,000.0	3,962.3	4,008.9	3,994.9	11.4	8.0	160.49	-206.7	119.3	349.4	334.4	15.09	23.162		
4,100.0	4,061.2	4,108.7	4,093.7	11.7	8.3	159.67	-219.4	124.2	354.4	338.8	15.58	22.747		
4,200.0	4,160.1	4,208.5	4,192.5	12.0	8.6	158.87	-232.2	129.2	359.4	343.3	16.08	22.352		
4,300.0	4,258.9	4,308.2	4,291.3	12.4	8.8	158.10	-245.0	134.1	364.4	347.9	16.58	21.978		
4,400.0	4,357.8	4,408.0	4,390.2	12.7	9.1	157.34	-257.7	139.1	369.6	352.5	17.09	21.622		
4,500.0	4,456.7	4,507.7	4,489.0	13.0	9.4	156.61	-270.5	144.0	374.8	357.1	17.61	21.283		
4,600.0	4,555.5	4,607.5	4,587.8	13.3	9.7	155.90	-283.2	148.9	380.0	361.9	18.13	20.961		
4,700.0	4,654.4	4,707.2	4,686.6	13.6	9.9	155.20	-296.0	153.9	385.3	366.7	18.65	20.655		
4,800.0	4,753.3	4,807.0	4,785.4	13.9	10.2	154.53	-308.8	158.8	390.7	371.5	19.19	20.364		
4,900.0	4,852.1	4,906.7	4,884.2	14.3	10.5	153.87	-321.5	163.8	396.1	376.4	19.72	20.087		
5,000.0	4,951.0	5,006.5	4,983.0	14.6	10.8	153.23	-334.3	168.7	401.6	381.3	20.26	19.822		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													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		
5,100.0	5,049.8	5,106.2	5,081.8	14.9	11.1	152.61	-347.0	173.7	407.1	386.3	20.80	19.571		
5,200.0	5,148.7	5,206.0	5,180.6	15.2	11.3	152.00	-359.8	178.6	412.7	391.3	21.35	19.331		
5,300.0	5,247.6	5,305.7	5,279.4	15.5	11.6	151.41	-372.6	183.6	418.3	396.4	21.90	19.102		
5,400.0	5,346.4	5,405.5	5,378.2	15.8	11.9	150.84	-385.3	188.5	423.9	401.5	22.45	18.883		
5,500.0	5,445.3	5,505.2	5,477.0	16.1	12.2	150.28	-398.1	193.5	429.6	406.6	23.00	18.675		
5,600.0	5,544.2	5,605.0	5,575.8	16.5	12.5	149.74	-410.9	198.4	435.3	411.8	23.56	18.475		
5,700.0	5,643.0	5,704.7	5,674.7	16.8	12.8	149.21	-423.6	203.3	441.1	417.0	24.12	18.285		
5,800.0	5,741.9	5,804.5	5,773.5	17.1	13.1	148.69	-436.4	208.3	446.9	422.2	24.69	18.103		
5,900.0	5,840.7	5,904.2	5,872.3	17.4	13.3	148.19	-449.1	213.2	452.8	427.5	25.25	17.929		
6,000.0	5,939.6	6,004.0	5,971.1	17.7	13.6	147.70	-461.9	218.2	458.6	432.8	25.82	17.762		
6,100.0	6,038.5	6,103.7	6,069.9	18.0	13.9	147.22	-474.7	223.1	464.5	438.1	26.39	17.602		
6,200.0	6,137.3	6,203.5	6,168.7	18.4	14.2	146.76	-487.4	228.1	470.5	443.5	26.96	17.449		
6,300.0	6,236.2	6,303.2	6,267.5	18.7	14.5	146.30	-500.2	233.0	476.4	448.9	27.54	17.303		
6,400.0	6,335.1	6,403.0	6,366.3	19.0	14.8	145.86	-512.9	238.0	482.4	454.3	28.11	17.162		
6,500.0	6,433.9	6,502.7	6,465.1	19.3	15.1	145.43	-525.7	242.9	488.5	459.8	28.69	17.027		
6,600.0	6,532.8	6,602.5	6,563.9	19.6	15.4	145.01	-538.5	247.8	494.5	465.3	29.27	16.898		
6,700.0	6,631.7	6,702.2	6,662.7	19.9	15.6	144.60	-551.2	252.8	500.6	470.8	29.85	16.773		
6,800.0	6,730.5	6,802.0	6,761.5	20.3	15.9	144.19	-564.0	257.7	506.7	476.3	30.43	16.654		
6,900.0	6,829.4	6,901.7	6,860.4	20.6	16.2	143.80	-576.8	262.7	512.8	481.8	31.01	16.539		
6,981.6	6,910.1	6,983.2	6,941.0	20.8	16.5	143.49	-587.2	266.7	517.9	486.4	31.48	16.448		
7,000.0	6,928.3	7,001.5	6,959.2	20.9	16.5	148.31	-589.5	267.6	519.0	487.4	31.58	16.433		
7,100.0	7,027.5	7,100.9	7,057.6	21.1	16.8	-174.33	-602.2	272.5	524.7	492.6	32.14	16.328		
7,200.0	7,126.7	7,199.1	7,154.9	21.2	17.1	-138.88	-614.8	277.4	530.2	497.4	32.77	16.177		
7,300.0	7,225.2	7,295.2	7,250.2	21.3	17.4	-122.39	-626.7	282.2	536.1	502.7	33.42	16.041		
7,400.0	7,322.1	7,392.8	7,347.5	21.3	17.5	-115.30	-629.6	286.7	543.4	509.6	33.77	16.088		
7,500.0	7,416.8	7,494.7	7,448.6	21.2	17.5	-111.74	-618.3	290.9	551.3	517.5	33.76	16.332		
7,600.0	7,508.4	7,600.2	7,550.5	21.1	17.3	-109.54	-591.7	294.6	559.3	525.9	33.38	16.755		
7,700.0	7,596.4	7,708.2	7,649.7	21.0	17.0	-107.74	-549.3	297.7	566.8	534.1	32.70	17.334		
7,800.0	7,680.0	7,817.3	7,742.3	20.8	16.6	-105.91	-491.8	299.9	573.5	541.7	31.81	18.030		
7,900.0	7,758.7	7,926.0	7,824.9	20.7	16.2	-103.85	-421.3	301.2	579.4	548.6	30.84	18.786		
7,989.6	7,824.4	8,021.9	7,888.0	20.6	15.8	-101.73	-349.3	301.5	584.0	554.0	30.03	19.445		
8,000.0	7,831.7	8,032.9	7,894.7	20.6	15.8	-101.41	-340.5	301.5	584.5	554.6	29.95	19.519		
8,050.0	7,865.3	8,085.4	7,924.4	20.6	15.6	-99.95	-297.2	301.4	586.9	557.4	29.57	19.852		
8,100.0	7,896.2	8,137.4	7,950.6	20.5	15.4	-98.58	-252.4	301.0	589.3	560.1	29.26	20.140		
8,150.0	7,924.4	8,188.8	7,973.3	20.5	15.3	-97.30	-206.3	300.4	591.7	562.6	29.05	20.369		
8,200.0	7,949.6	8,239.6	7,992.4	20.5	15.2	-96.10	-159.2	299.6	593.9	565.0	28.93	20.532		
8,250.0	7,971.8	8,289.9	8,008.1	20.6	15.2	-94.96	-111.4	298.7	596.1	567.2	28.91	20.623		
8,300.0	7,990.8	8,339.8	8,020.2	20.6	15.2	-93.89	-63.1	297.5	598.3	569.3	28.99	20.639		
8,350.0	8,006.6	8,389.1	8,028.8	20.7	15.3	-92.88	-14.5	296.2	600.3	571.1	29.16	20.584		
8,400.0	8,019.1	8,437.9	8,034.1	20.8	15.4	-91.94	34.0	294.8	602.2	572.8	29.43	20.461		
8,450.0	8,028.1	8,486.3	8,036.0	21.0	15.5	-91.05	82.3	293.2	604.0	574.3	29.78	20.282		
8,500.0	8,033.7	8,535.8	8,036.0	21.1	15.7	-90.35	131.8	291.5	605.7	575.4	30.24	20.030		
8,550.0	8,035.9	8,585.7	8,036.0	21.3	16.0	-90.02	181.7	289.7	607.0	576.2	30.75	19.742		
8,556.4	8,036.0	8,592.1	8,036.0	21.4	16.0	-90.00	188.0	289.5	607.1	576.3	30.81	19.703		
8,600.0	8,036.0	8,635.7	8,036.0	21.6	16.3	-90.00	231.6	288.0	608.0	576.6	31.39	19.371		
8,700.0	8,036.0	8,735.7	8,036.0	22.2	17.0	-90.00	331.5	284.5	610.2	577.3	32.91	18.540		
8,800.0	8,036.0	8,835.7	8,036.0	22.9	17.8	-90.00	431.5	281.0	612.3	577.6	34.72	17.635		
8,900.0	8,036.0	8,935.7	8,036.0	23.7	18.8	-90.00	531.4	277.5	614.4	577.6	36.78	16.706		
9,000.0	8,036.0	9,035.6	8,036.0	24.6	19.9	-90.00	631.3	274.0	616.5	577.5	39.04	15.792		
9,100.0	8,036.0	9,135.6	8,036.0	25.6	21.0	-90.00	731.2	270.5	618.7	577.2	41.48	14.915		
9,200.0	8,036.0	9,235.6	8,036.0	26.7	22.3	-90.00	831.1	267.0	620.8	576.7	44.06	14.089		
9,300.0	8,036.0	9,335.6	8,036.0	27.8	23.6	-90.00	931.0	263.6	622.9	576.2	46.77	13.320		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													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		
9,400.0	8,036.0	9,435.5	8,036.0	29.0	24.9	-90.00	1,031.0	260.1	625.1	575.5	49.57	12.609		
9,500.0	8,036.0	9,535.5	8,036.0	30.3	26.4	-90.00	1,130.9	256.6	627.2	574.7	52.46	11.955		
9,600.0	8,036.0	9,635.5	8,036.0	31.6	27.8	-90.00	1,230.8	253.1	629.3	573.9	55.42	11.354		
9,700.0	8,036.0	9,735.5	8,036.0	32.9	29.3	-90.00	1,330.7	249.6	631.4	573.0	58.45	10.804		
9,800.0	8,036.0	9,835.5	8,036.0	34.3	30.8	-90.00	1,430.6	246.1	633.6	572.0	61.52	10.299		
9,900.0	8,036.0	9,935.4	8,036.0	35.7	32.3	-90.00	1,530.5	242.6	635.7	571.1	64.64	9.835		
10,000.0	8,036.0	10,035.4	8,036.0	37.2	33.9	-90.00	1,630.5	239.1	637.8	570.0	67.79	9.408		
10,100.0	8,036.0	10,135.4	8,036.0	38.7	35.5	-90.00	1,730.4	235.6	640.0	569.0	70.98	9.016		
10,200.0	8,036.0	10,235.4	8,036.0	40.1	37.1	-90.00	1,830.3	232.2	642.1	567.9	74.20	8.653		
10,300.0	8,036.0	10,335.3	8,036.0	41.7	38.7	-90.00	1,930.2	228.7	644.2	566.8	77.44	8.318		
10,400.0	8,036.0	10,435.3	8,036.0	43.2	40.3	-90.00	2,030.1	225.2	646.3	565.6	80.71	8.008		
10,500.0	8,036.0	10,535.3	8,036.0	44.7	41.9	-90.00	2,130.0	221.7	648.5	564.5	84.00	7.720		
10,600.0	8,036.0	10,635.3	8,036.0	46.3	43.6	-90.00	2,230.0	218.2	650.6	563.3	87.30	7.453		
10,700.0	8,036.0	10,735.2	8,036.0	47.9	45.2	-90.00	2,329.9	214.7	652.7	562.1	90.62	7.203		
10,800.0	8,036.0	10,835.2	8,036.0	49.5	46.9	-90.00	2,429.8	211.2	654.8	560.9	93.95	6.970		
10,900.0	8,036.0	10,935.2	8,036.0	51.1	48.5	-90.00	2,529.7	207.7	657.0	559.7	97.29	6.753		
11,000.0	8,036.0	11,035.2	8,036.0	52.7	50.2	-90.00	2,629.6	204.2	659.1	558.5	100.65	6.549		
11,100.0	8,036.0	11,135.2	8,036.0	54.3	51.9	-90.00	2,729.5	200.8	661.2	557.2	104.01	6.357		
11,200.0	8,036.0	11,235.1	8,036.0	55.9	53.5	-90.00	2,829.5	197.3	663.4	556.0	107.39	6.177		
11,300.0	8,036.0	11,335.1	8,036.0	57.6	55.2	-90.00	2,929.4	193.8	665.5	554.7	110.77	6.008		
11,400.0	8,036.0	11,435.1	8,036.0	59.2	56.9	-90.00	3,029.3	190.3	667.6	553.5	114.16	5.848		
11,500.0	8,036.0	11,527.8	8,036.0	60.9	58.5	-90.00	3,121.9	186.7	670.1	552.7	117.44	5.706		
11,600.0	8,036.0	11,617.2	8,036.0	62.5	60.0	-90.00	3,211.2	181.9	674.1	553.4	120.66	5.587		
11,700.0	8,036.0	11,713.7	8,036.0	64.2	61.6	-90.00	3,307.5	175.6	679.3	555.3	124.01	5.478		
11,800.0	8,036.0	11,813.5	8,036.0	65.8	63.3	-90.00	3,407.1	169.0	684.6	557.2	127.42	5.373		
11,900.0	8,036.0	11,913.4	8,036.0	67.5	65.0	-90.00	3,506.7	162.3	689.9	559.0	130.84	5.273		
12,000.0	8,036.0	12,013.2	8,036.0	69.2	66.7	-90.00	3,606.4	155.7	695.1	560.9	134.26	5.178		
12,100.0	8,036.0	12,113.1	8,036.0	70.8	68.4	-90.00	3,706.0	149.1	700.4	562.7	137.69	5.087		
12,200.0	8,036.0	12,213.0	8,036.0	72.5	70.2	-90.00	3,805.7	142.4	705.7	564.6	141.12	5.001		
12,300.0	8,036.0	12,312.8	8,036.0	74.2	71.9	-90.00	3,905.3	135.8	711.0	566.4	144.55	4.919		
12,400.0	8,036.0	12,412.7	8,036.0	75.9	73.6	-90.00	4,004.9	129.2	716.3	568.3	147.99	4.840		
12,500.0	8,036.0	12,512.5	8,036.0	77.6	75.3	-90.00	4,104.6	122.5	721.6	570.1	151.43	4.765		
12,600.0	8,036.0	12,612.4	8,036.0	79.3	77.0	-90.00	4,204.2	115.9	726.8	572.0	154.87	4.693		
12,700.0	8,036.0	12,712.3	8,036.0	81.0	78.7	-90.00	4,303.9	109.3	732.1	573.8	158.32	4.624		
12,800.0	8,036.0	12,812.1	8,036.0	82.7	80.4	-90.00	4,403.5	102.7	737.4	575.6	161.77	4.558		
12,900.0	8,036.0	12,912.0	8,036.0	84.4	82.2	-90.00	4,503.1	96.0	742.7	577.5	165.22	4.495		
13,000.0	8,036.0	13,011.8	8,036.0	86.1	83.9	-90.00	4,602.8	89.4	748.0	579.3	168.67	4.434		
13,100.0	8,036.0	13,111.7	8,036.0	87.8	85.6	-90.00	4,702.4	82.8	753.2	581.1	172.13	4.376		
13,200.0	8,036.0	13,211.6	8,036.0	89.5	87.3	-90.00	4,802.1	76.1	758.5	582.9	175.59	4.320		
13,300.0	8,036.0	13,311.4	8,036.0	91.2	89.1	-90.00	4,901.7	69.5	763.8	584.8	179.05	4.266		
13,400.0	8,036.0	13,411.3	8,036.0	92.9	90.8	-90.00	5,001.3	62.9	769.1	586.6	182.51	4.214		
13,500.0	8,036.0	13,511.1	8,036.0	94.6	92.5	-90.00	5,101.0	56.2	774.4	588.4	185.97	4.164		
13,600.0	8,036.0	13,611.0	8,036.0	96.3	94.3	-90.00	5,200.6	49.6	779.6	590.2	189.44	4.116		
13,700.0	8,036.0	13,710.9	8,036.0	98.0	96.0	-90.00	5,300.3	43.0	784.9	592.0	192.90	4.069		
13,800.0	8,036.0	13,810.7	8,036.0	99.8	97.7	-90.00	5,399.9	36.3	790.2	593.8	196.37	4.024		
13,900.0	8,036.0	13,910.6	8,036.0	101.5	99.4	-90.00	5,499.5	29.7	795.5	595.6	199.84	3.981		
14,000.0	8,036.0	14,019.2	8,036.0	103.2	101.3	-90.00	5,608.0	22.8	800.5	597.0	203.46	3.934		
14,100.0	8,036.0	14,135.4	8,036.0	104.9	103.4	-90.00	5,724.1	17.6	803.6	596.4	207.22	3.878		
14,200.0	8,036.0	14,251.8	8,036.0	106.6	105.4	-90.00	5,840.3	14.7	804.8	593.8	210.98	3.815		
14,300.0	8,036.0	14,363.8	8,036.0	108.4	107.3	-90.00	5,952.3	14.0	804.0	589.3	214.66	3.745		
14,400.0	8,036.0	14,463.7	8,036.0	110.1	109.1	-90.00	6,052.3	14.0	802.6	584.5	218.13	3.679		
14,500.0	8,036.0	14,563.7	8,036.0	111.8	110.8	-90.00	6,152.3	14.0	801.2	579.6	221.61	3.616		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													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			
14,600.0	8,036.0	14,663.7	8,036.0	113.5	112.5	-90.00	6,252.3	14.0	799.9	574.8	225.09	3.554		
14,700.0	8,036.0	14,763.7	8,036.0	115.3	114.3	-90.00	6,352.3	14.0	798.5	570.0	228.56	3.494		
14,800.0	8,036.0	14,863.7	8,036.0	117.0	116.0	-90.00	6,452.3	14.0	797.2	565.1	232.04	3.435		
14,900.0	8,036.0	14,963.7	8,036.0	118.7	117.7	-90.00	6,552.3	14.0	795.8	560.3	235.52	3.379		
15,000.0	8,036.0	15,063.7	8,036.0	120.4	119.5	-90.00	6,652.3	14.0	794.4	555.4	239.00	3.324		
15,100.0	8,036.0	15,163.7	8,036.0	122.2	121.2	-90.00	6,752.2	14.0	793.1	550.6	242.48	3.271		
15,200.0	8,036.0	15,263.7	8,036.0	123.9	123.0	-90.00	6,852.2	14.0	791.7	545.7	245.97	3.219		
15,300.0	8,036.0	15,363.7	8,036.0	125.6	124.7	-90.00	6,952.2	14.0	790.3	540.9	249.45	3.168		
15,400.0	8,036.0	15,463.7	8,036.0	127.4	126.4	-90.00	7,052.2	14.0	789.0	536.1	252.93	3.119		
15,500.0	8,036.0	15,563.6	8,036.0	129.1	128.2	-90.00	7,152.2	14.0	787.6	531.2	256.42	3.072		
15,600.0	8,036.0	15,663.6	8,036.0	130.8	129.9	-90.00	7,252.2	14.0	786.3	526.4	259.90	3.025		
15,700.0	8,036.0	15,763.6	8,036.0	132.6	131.7	-90.00	7,352.2	14.0	784.9	521.5	263.39	2.980		
15,800.0	8,036.0	15,863.6	8,036.0	134.3	133.4	-90.00	7,452.2	14.0	783.5	516.7	266.87	2.936		
15,900.0	8,036.0	15,963.6	8,036.0	136.0	135.2	-90.00	7,552.2	14.0	782.2	511.8	270.36	2.893		
16,000.0	8,036.0	16,063.6	8,036.0	137.8	136.9	-90.00	7,652.2	14.0	780.8	507.0	273.85	2.851		
16,100.0	8,036.0	16,163.6	8,036.0	139.5	138.6	-90.00	7,752.2	14.0	779.4	502.1	277.33	2.810		
16,200.0	8,036.0	16,263.6	8,036.0	141.2	140.4	-90.00	7,852.1	14.0	778.1	497.3	280.82	2.771		
16,300.0	8,036.0	16,363.6	8,036.0	143.0	142.1	-90.00	7,952.1	14.0	776.7	492.4	284.31	2.732		
16,400.0	8,036.0	16,463.6	8,036.0	144.7	143.9	-90.00	8,052.1	14.0	775.4	487.6	287.80	2.694		
16,500.0	8,036.0	16,563.6	8,036.0	146.4	145.6	-90.00	8,152.1	14.0	774.0	482.7	291.29	2.657		
16,600.0	8,036.0	16,663.5	8,036.0	148.2	147.4	-90.00	8,252.1	14.0	772.6	477.9	294.78	2.621		
16,700.0	8,036.0	16,763.5	8,036.0	149.9	149.1	-90.00	8,352.1	14.0	771.3	473.0	298.27	2.586		
16,800.0	8,036.0	16,863.5	8,036.0	151.6	150.8	-90.00	8,452.1	14.0	769.9	468.1	301.76	2.551		
16,900.0	8,036.0	16,963.5	8,036.0	153.4	152.6	-90.00	8,552.1	14.0	768.5	463.3	305.25	2.518		
17,000.0	8,036.0	17,063.5	8,036.0	155.1	154.3	-90.00	8,652.1	14.0	767.2	458.4	308.74	2.485		
17,100.0	8,036.0	17,163.5	8,036.0	156.9	156.1	-90.00	8,752.1	14.0	765.8	453.6	312.23	2.453		
17,200.0	8,036.0	17,263.5	8,036.0	158.6	157.8	-90.00	8,852.1	14.0	764.5	448.7	315.73	2.421		
17,300.0	8,036.0	17,363.5	8,036.0	160.3	159.6	-90.00	8,952.0	14.0	763.1	443.9	319.22	2.391		
17,400.0	8,036.0	17,463.5	8,036.0	162.1	161.3	-90.00	9,052.0	14.0	761.7	439.0	322.71	2.360		
17,500.0	8,036.0	17,563.5	8,036.0	163.8	163.1	-90.00	9,152.0	14.0	760.4	434.2	326.21	2.331		
17,600.0	8,036.0	17,663.4	8,036.0	165.6	164.8	-90.00	9,252.0	14.0	759.0	429.3	329.70	2.302		
17,700.0	8,036.0	17,763.4	8,036.0	167.3	166.6	-90.00	9,352.0	14.0	757.6	424.5	333.19	2.274		
17,800.0	8,036.0	17,863.4	8,036.0	169.0	168.3	-90.00	9,452.0	14.0	756.3	419.6	336.69	2.246		
17,822.0	8,036.0	17,875.1	8,036.0	169.4	168.5	-90.00	9,463.7	14.0	756.1	418.8	337.28	2.242		
17,826.5	8,036.0	17,875.1	8,036.0	169.5	168.5	-90.00	9,463.7	14.0	756.1	418.7	337.35	2.241		
17,827.1	8,036.0	17,875.1	8,036.0	169.5	168.5	-90.00	9,463.7	14.0	756.1	418.7	337.37	2.241 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #2													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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	50.4	8.4					
100.0	100.0	100.0	100.0	0.1	0.1	-89.94	0.0	50.4	8.4	8.2	0.25	33.667		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	50.4	8.4	7.8	0.60	14.036		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	50.4	8.4	7.5	0.95	8.866		
400.0	400.0	400.0	400.0	0.6	0.6	-89.94	0.0	50.4	8.4	7.1	1.30	6.480 CC, ES		
500.0	500.0	500.0	500.0	0.8	0.8	145.82	0.0	50.4	9.8	8.1	1.65	5.947		
600.0	599.8	600.0	600.0	1.0	1.0	155.28	-0.8	50.9	13.8	11.8	2.00	6.892		
700.0	699.5	700.1	700.0	1.2	1.2	160.82	-3.0	52.3	19.8	17.5	2.35	8.443		
800.0	798.7	800.1	799.9	1.5	1.4	163.81	-6.7	54.6	27.8	25.1	2.70	10.322		
832.4	830.7	832.4	832.3	1.6	1.4	164.44	-8.2	55.6	30.8	28.0	2.81	10.974		
900.0	897.6	900.1	899.8	1.8	1.6	165.13	-11.8	57.9	37.0	33.9	3.05	12.117		
1,000.0	996.5	1,000.4	999.8	2.0	1.8	164.85	-18.4	62.2	44.9	41.4	3.42	13.112		
1,100.0	1,095.3	1,100.9	1,099.8	2.3	2.0	163.61	-26.6	67.4	51.3	47.5	3.80	13.477		
1,200.0	1,194.2	1,201.6	1,199.8	2.6	2.2	161.65	-36.2	73.5	56.2	52.0	4.20	13.370		
1,300.0	1,293.0	1,301.6	1,299.0	2.9	2.5	159.42	-46.6	80.2	60.4	55.7	4.62	13.053		
1,400.0	1,391.9	1,401.5	1,398.2	3.2	2.7	157.47	-57.1	86.9	64.6	59.5	5.06	12.769		
1,500.0	1,490.8	1,501.3	1,497.3	3.6	3.0	155.76	-67.6	93.6	68.9	63.4	5.50	12.514		
1,600.0	1,589.6	1,601.2	1,596.4	3.9	3.2	154.25	-78.0	100.3	73.2	67.2	5.96	12.286		
1,700.0	1,688.5	1,701.1	1,695.5	4.2	3.5	152.91	-88.5	107.0	77.6	71.2	6.42	12.081		
1,800.0	1,787.4	1,801.0	1,794.6	4.5	3.8	151.71	-98.9	113.6	82.0	75.1	6.89	11.896		
1,900.0	1,886.2	1,900.9	1,893.7	4.8	4.0	150.64	-109.4	120.3	86.5	79.1	7.37	11.729		
2,000.0	1,985.1	2,000.8	1,992.8	5.1	4.3	149.67	-119.8	127.0	90.9	83.1	7.85	11.578		
2,100.0	2,083.9	2,100.7	2,092.0	5.4	4.6	148.80	-130.3	133.7	95.4	87.1	8.34	11.441		
2,200.0	2,182.8	2,200.6	2,191.1	5.7	4.9	148.00	-140.8	140.4	100.0	91.1	8.83	11.316		
2,300.0	2,281.7	2,300.4	2,290.2	6.1	5.1	147.27	-151.2	147.1	104.5	95.2	9.33	11.202		
2,400.0	2,380.5	2,400.3	2,389.3	6.4	5.4	146.60	-161.7	153.7	109.1	99.2	9.83	11.098		
2,500.0	2,479.4	2,500.2	2,488.4	6.7	5.7	145.99	-172.1	160.4	113.6	103.3	10.33	11.002		
2,600.0	2,578.3	2,600.1	2,587.5	7.0	5.9	145.42	-182.6	167.1	118.2	107.4	10.83	10.914		
2,700.0	2,677.1	2,700.0	2,686.6	7.3	6.2	144.90	-193.0	173.8	122.8	111.5	11.34	10.833		
2,800.0	2,776.0	2,799.9	2,785.8	7.6	6.5	144.41	-203.5	180.5	127.4	115.6	11.84	10.758		
2,900.0	2,874.9	2,899.8	2,884.9	7.9	6.8	143.96	-214.0	187.2	132.0	119.7	12.35	10.689		
3,000.0	2,973.7	2,999.7	2,984.0	8.3	7.0	143.54	-224.4	193.9	136.6	123.8	12.86	10.624		
3,100.0	3,072.6	3,099.6	3,083.1	8.6	7.3	143.15	-234.9	200.5	141.3	127.9	13.37	10.564		
3,200.0	3,171.4	3,199.4	3,182.2	8.9	7.6	142.78	-245.3	207.2	145.9	132.0	13.88	10.508		
3,300.0	3,270.3	3,299.3	3,281.3	9.2	7.9	142.43	-255.8	213.9	150.5	136.1	14.40	10.456		
3,400.0	3,369.2	3,399.2	3,380.4	9.5	8.1	142.10	-266.3	220.6	155.2	140.3	14.91	10.407		
3,500.0	3,468.0	3,499.1	3,479.6	9.8	8.4	141.80	-276.7	227.3	159.8	144.4	15.43	10.361		
3,600.0	3,566.9	3,599.0	3,578.7	10.1	8.7	141.51	-287.2	234.0	164.5	148.5	15.94	10.318		
3,700.0	3,665.8	3,698.9	3,677.8	10.5	9.0	141.23	-297.6	240.7	169.1	152.7	16.46	10.277		
3,800.0	3,764.6	3,798.8	3,776.9	10.8	9.3	140.98	-308.1	247.3	173.8	156.8	16.97	10.239		
3,900.0	3,863.5	3,898.7	3,876.0	11.1	9.5	140.73	-318.5	254.0	178.5	161.0	17.49	10.202		
4,000.0	3,962.3	3,998.6	3,975.1	11.4	9.8	140.50	-329.0	260.7	183.1	165.1	18.01	10.168		
4,100.0	4,061.2	4,098.4	4,074.2	11.7	10.1	140.28	-339.5	267.4	187.8	169.3	18.53	10.136		
4,200.0	4,160.1	4,198.3	4,173.4	12.0	10.4	140.07	-349.9	274.1	192.5	173.4	19.05	10.105		
4,300.0	4,258.9	4,298.2	4,272.5	12.4	10.6	139.87	-360.4	280.8	197.1	177.6	19.57	10.076		
4,400.0	4,357.8	4,398.1	4,371.6	12.7	10.9	139.67	-370.8	287.5	201.8	181.7	20.08	10.048		
4,500.0	4,456.7	4,498.0	4,470.7	13.0	11.2	139.49	-381.3	294.1	206.5	185.9	20.60	10.022		
4,600.0	4,555.5	4,597.9	4,569.8	13.3	11.5	139.32	-391.8	300.8	211.2	190.0	21.12	9.996		
4,700.0	4,654.4	4,697.8	4,668.9	13.6	11.7	139.15	-402.2	307.5	215.9	194.2	21.64	9.972		
4,800.0	4,753.3	4,797.7	4,768.0	13.9	12.0	138.99	-412.7	314.2	220.5	198.4	22.17	9.949		
4,900.0	4,852.1	4,897.5	4,867.1	14.3	12.3	138.84	-423.1	320.9	225.2	202.5	22.69	9.928		
5,000.0	4,951.0	4,997.4	4,966.3	14.6	12.6	138.69	-433.6	327.6	229.9	206.7	23.21	9.907		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #2													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		
5,100.0	5,049.8	5,097.3	5,065.4	14.9	12.9	138.55	-444.0	334.3	234.6	210.9	23.73	9.887		
5,200.0	5,148.7	5,197.2	5,164.5	15.2	13.1	138.41	-454.5	340.9	239.3	215.0	24.25	9.867		
5,300.0	5,247.6	5,297.1	5,263.6	15.5	13.4	138.28	-465.0	347.6	244.0	219.2	24.77	9.849		
5,400.0	5,346.4	5,397.0	5,362.7	15.8	13.7	138.16	-475.4	354.3	248.7	223.4	25.29	9.831		
5,500.0	5,445.3	5,496.9	5,461.8	16.1	14.0	138.04	-485.9	361.0	253.4	227.5	25.82	9.814		
5,600.0	5,544.2	5,596.8	5,560.9	16.5	14.2	137.92	-496.3	367.7	258.1	231.7	26.34	9.798		
5,700.0	5,643.0	5,696.7	5,660.1	16.8	14.5	137.81	-506.8	374.4	262.8	235.9	26.86	9.782		
5,800.0	5,741.9	5,796.5	5,759.2	17.1	14.8	137.70	-517.2	381.1	267.4	240.1	27.38	9.767		
5,900.0	5,840.7	5,896.4	5,858.3	17.4	15.1	137.60	-527.7	387.7	272.1	244.2	27.91	9.752		
6,000.0	5,939.6	5,996.3	5,957.4	17.7	15.4	137.49	-538.2	394.4	276.8	248.4	28.43	9.738		
6,100.0	6,038.5	6,096.2	6,056.5	18.0	15.6	137.40	-548.6	401.1	281.5	252.6	28.95	9.725		
6,200.0	6,137.3	6,196.1	6,155.6	18.4	15.9	137.30	-559.1	407.8	286.2	256.8	29.47	9.712		
6,300.0	6,236.2	6,296.0	6,254.7	18.7	16.2	137.21	-569.5	414.5	290.9	260.9	30.00	9.699		
6,400.0	6,335.1	6,395.9	6,353.9	19.0	16.5	137.12	-580.0	421.2	295.6	265.1	30.52	9.687		
6,500.0	6,433.9	6,495.8	6,453.0	19.3	16.7	137.04	-590.5	427.9	300.3	269.3	31.04	9.675		
6,600.0	6,532.8	6,595.6	6,552.1	19.6	17.0	136.95	-600.9	434.5	305.0	273.5	31.57	9.664		
6,700.0	6,631.7	6,695.5	6,651.2	19.9	17.3	136.87	-611.4	441.2	309.8	277.7	32.09	9.652		
6,800.0	6,730.5	6,795.4	6,750.3	20.3	17.6	136.80	-621.8	447.9	314.5	281.8	32.61	9.642		
6,900.0	6,829.4	6,895.2	6,849.5	20.6	17.8	136.99	-630.8	454.5	319.2	286.1	33.04	9.661		
6,981.6	6,910.1	6,975.5	6,929.5	20.8	17.9	138.64	-629.5	459.5	323.2	290.3	32.91	9.820		
7,000.0	6,928.3	6,993.2	6,947.2	20.9	17.9	144.09	-628.0	460.6	324.2	291.4	32.82	9.880		
7,100.0	7,027.5	7,087.8	7,040.3	21.1	17.9	-174.20	-612.7	465.7	330.6	298.6	32.00	10.332		
7,200.0	7,126.7	7,178.7	7,127.2	21.2	17.7	-133.04	-586.6	470.1	339.1	308.2	30.89	10.976		
7,300.0	7,225.2	7,265.7	7,206.7	21.3	17.5	-109.80	-551.5	473.5	350.2	320.5	29.67	11.804		
7,400.0	7,322.1	7,350.0	7,279.1	21.3	17.2	-95.96	-508.5	476.2	364.3	335.8	28.47	12.796		
7,500.0	7,416.8	7,428.0	7,341.2	21.2	16.9	-86.31	-461.4	478.0	381.5	354.0	27.48	13.883		
7,600.0	7,508.4	7,500.0	7,393.7	21.1	16.6	-78.86	-412.2	479.2	401.8	375.1	26.76	15.019		
7,700.0	7,596.4	7,575.8	7,443.3	21.0	16.3	-72.36	-355.0	479.8	425.0	398.7	26.26	16.184		
7,800.0	7,680.0	7,650.0	7,485.8	20.8	16.0	-66.73	-294.2	479.8	450.6	424.6	26.00	17.333		
7,900.0	7,758.7	7,711.1	7,516.0	20.7	15.9	-62.18	-241.1	479.4	478.2	452.3	25.91	18.456		
7,989.6	7,824.4	7,768.2	7,540.0	20.6	15.7	-58.42	-189.3	478.7	504.3	478.4	25.89	19.477		
8,000.0	7,831.7	7,774.8	7,542.5	20.6	15.7	-57.89	-183.2	478.6	507.4	481.5	25.86	19.622		
8,050.0	7,865.3	7,800.0	7,551.5	20.6	15.7	-55.71	-159.7	478.1	521.9	496.3	25.66	20.341		
8,100.0	7,896.2	7,837.0	7,563.3	20.5	15.7	-53.50	-124.6	477.3	535.7	510.3	25.47	21.036		
8,150.0	7,924.4	7,867.8	7,571.7	20.5	15.6	-51.70	-95.0	476.5	548.9	523.6	25.23	21.750		
8,200.0	7,949.6	7,900.0	7,579.2	20.5	15.6	-50.11	-63.7	475.6	561.2	536.2	24.97	22.470		
8,250.0	7,971.8	7,929.0	7,584.7	20.6	15.7	-48.77	-35.2	474.7	572.6	547.8	24.75	23.137		
8,300.0	7,990.8	7,959.4	7,589.2	20.6	15.7	-47.59	-5.2	473.7	583.0	558.6	24.46	23.839		
8,350.0	8,006.6	7,989.8	7,592.4	20.7	15.8	-46.59	25.0	472.6	592.5	568.3	24.23	24.455		
8,400.0	8,019.1	8,020.0	7,594.3	20.8	15.8	-45.76	55.1	471.4	600.9	576.9	24.04	24.995		
8,450.0	8,028.1	8,051.0	7,595.0	21.0	15.9	-45.06	86.1	470.1	608.3	584.4	23.90	25.449		
8,500.0	8,033.7	8,099.2	7,595.0	21.1	16.1	-44.52	134.2	468.0	613.8	589.9	23.90	25.679		
8,550.0	8,035.9	8,149.1	7,595.0	21.3	16.3	-44.34	184.1	465.8	616.5	592.5	24.04	25.649		
8,556.4	8,036.0	8,155.4	7,595.0	21.4	16.4	-44.34	190.4	465.5	616.7	592.6	24.06	25.629		
8,600.0	8,036.0	8,199.0	7,595.0	21.6	16.6	-44.43	234.0	463.6	617.6	593.1	24.51	25.196		
8,700.0	8,036.0	8,299.0	7,595.0	22.2	17.3	-44.63	333.8	459.3	619.7	594.0	25.72	24.094		
8,800.0	8,036.0	8,399.0	7,595.0	22.9	18.1	-44.82	433.7	454.9	621.8	594.7	27.11	22.935		
8,900.0	8,036.0	8,498.9	7,595.0	23.7	19.0	-45.02	533.6	450.6	623.9	595.3	28.67	21.765		
9,000.0	8,036.0	8,598.9	7,595.0	24.6	20.1	-45.21	633.4	446.2	626.1	595.7	30.36	20.619		
9,100.0	8,036.0	8,698.8	7,595.0	25.6	21.2	-45.40	733.3	441.8	628.2	596.0	32.18	19.520		
9,200.0	8,036.0	8,798.8	7,595.0	26.7	22.4	-45.60	833.1	437.5	630.3	596.2	34.11	18.482		
9,300.0	8,036.0	8,898.7	7,595.0	27.8	23.7	-45.79	933.0	433.1	632.5	596.4	36.12	17.509		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #2													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)				
9,400.0	8,036.0	8,998.7	7,595.0	29.0	25.1	-45.97	1,032.9	428.8	634.6	596.4	38.22	16.604		
9,500.0	8,036.0	9,098.6	7,595.0	30.3	26.5	-46.16	1,132.7	424.4	636.8	596.4	40.39	15.766		
9,600.0	8,036.0	9,198.6	7,595.0	31.6	27.9	-46.35	1,232.6	420.0	639.0	596.3	42.62	14.992		
9,700.0	8,036.0	9,298.6	7,595.0	32.9	29.4	-46.53	1,332.4	415.7	641.1	596.2	44.91	14.276		
9,800.0	8,036.0	9,398.5	7,595.0	34.3	30.9	-46.72	1,432.3	411.3	643.3	596.1	47.25	13.616		
9,900.0	8,036.0	9,498.5	7,595.0	35.7	32.4	-46.90	1,532.2	407.0	645.5	595.9	49.63	13.007		
10,000.0	8,036.0	9,598.4	7,595.0	37.2	33.9	-47.08	1,632.0	402.6	647.7	595.7	52.05	12.443		
10,100.0	8,036.0	9,698.4	7,595.0	38.7	35.5	-47.26	1,731.9	398.2	649.9	595.4	54.51	11.922		
10,200.0	8,036.0	9,798.3	7,595.0	40.1	37.1	-47.44	1,831.7	393.9	652.1	595.1	57.01	11.439		
10,300.0	8,036.0	9,898.3	7,595.0	41.7	38.7	-47.62	1,931.6	389.5	654.3	594.8	59.53	10.991		
10,400.0	8,036.0	9,998.2	7,595.0	43.2	40.3	-47.79	2,031.5	385.2	656.5	594.5	62.09	10.574		
10,500.0	8,036.0	10,098.2	7,595.0	44.7	41.9	-47.97	2,131.3	380.8	658.8	594.1	64.67	10.186		
10,600.0	8,036.0	10,198.1	7,595.0	46.3	43.5	-48.14	2,231.2	376.4	661.0	593.7	67.28	9.825		
10,700.0	8,036.0	10,298.1	7,595.0	47.9	45.2	-48.32	2,331.0	372.1	663.2	593.3	69.91	9.487		
10,800.0	8,036.0	10,398.1	7,595.0	49.5	46.8	-48.49	2,430.9	367.7	665.5	592.9	72.57	9.171		
10,900.0	8,036.0	10,498.0	7,595.0	51.1	48.5	-48.66	2,530.8	363.4	667.7	592.5	75.24	8.874		
11,000.0	8,036.0	10,598.0	7,595.0	52.7	50.2	-48.83	2,630.6	359.0	670.0	592.1	77.94	8.596		
11,100.0	8,036.0	10,697.9	7,595.0	54.3	51.8	-49.00	2,730.5	354.6	672.3	591.6	80.65	8.335		
11,200.0	8,036.0	10,797.9	7,595.0	55.9	53.5	-49.16	2,830.3	350.3	674.5	591.1	83.39	8.089		
11,300.0	8,036.0	10,897.8	7,595.0	57.6	55.2	-49.33	2,930.2	345.9	676.8	590.7	86.14	7.857		
11,400.0	8,036.0	10,997.8	7,595.0	59.2	56.9	-49.49	3,030.1	341.6	679.1	590.2	88.91	7.638		
11,500.0	8,036.0	11,097.7	7,595.0	60.9	58.6	-49.66	3,129.9	337.2	681.4	589.7	91.70	7.431		
11,600.0	8,036.0	11,197.7	7,595.0	62.5	60.2	-49.82	3,229.8	332.8	683.7	589.2	94.50	7.235		
11,700.0	8,036.0	11,297.7	7,595.0	64.2	61.9	-49.98	3,329.6	328.5	686.0	588.6	97.31	7.049		
11,800.0	8,036.0	11,397.6	7,595.0	65.8	63.6	-50.14	3,429.5	324.1	688.3	588.1	100.14	6.873		
11,900.0	8,036.0	11,497.6	7,595.0	67.5	65.3	-50.30	3,529.4	319.8	690.6	587.6	102.99	6.705		
12,000.0	8,036.0	11,597.5	7,595.0	69.2	67.1	-50.46	3,629.2	315.4	692.9	587.0	105.85	6.546		
12,100.0	8,036.0	11,697.5	7,595.0	70.8	68.8	-50.62	3,729.1	311.0	695.2	586.5	108.72	6.394		
12,200.0	8,036.0	11,797.4	7,595.0	72.5	70.5	-50.77	3,828.9	306.7	697.5	585.9	111.60	6.250		
12,300.0	8,036.0	11,897.4	7,595.0	74.2	72.2	-50.93	3,928.8	302.3	699.8	585.3	114.50	6.112		
12,400.0	8,036.0	12,003.3	7,595.0	75.9	74.0	-51.08	4,034.6	298.0	701.9	584.5	117.48	5.975		
12,500.0	8,036.0	12,113.8	7,595.0	77.6	75.9	-51.13	4,145.1	295.5	702.7	582.3	120.39	5.837		
12,600.0	8,036.0	12,224.4	7,595.0	79.3	77.8	-51.07	4,255.7	295.1	701.9	578.8	123.13	5.700		
12,700.0	8,036.0	12,329.4	7,595.0	81.0	79.6	-50.93	4,360.7	296.4	699.9	574.2	125.66	5.569		
12,800.0	8,036.0	12,429.3	7,595.0	82.7	81.3	-50.78	4,460.6	297.9	697.6	569.5	128.10	5.446		
12,900.0	8,036.0	12,529.3	7,595.0	84.4	83.1	-50.63	4,560.6	299.4	695.4	564.9	130.53	5.328		
13,000.0	8,036.0	12,629.2	7,595.0	86.1	84.8	-50.48	4,660.5	300.9	693.2	560.3	132.94	5.214		
13,100.0	8,036.0	12,729.2	7,595.0	87.8	86.5	-50.33	4,760.4	302.4	691.0	555.6	135.35	5.105		
13,200.0	8,036.0	12,829.2	7,595.0	89.5	88.3	-50.18	4,860.4	303.9	688.8	551.0	137.74	5.001		
13,300.0	8,036.0	12,929.1	7,595.0	91.2	90.0	-50.03	4,960.3	305.4	686.6	546.5	140.12	4.900		
13,400.0	8,036.0	13,029.1	7,595.0	92.9	91.7	-49.87	5,060.3	306.9	684.4	541.9	142.48	4.803		
13,500.0	8,036.0	13,129.0	7,595.0	94.6	93.5	-49.72	5,160.2	308.4	682.2	537.4	144.83	4.710		
13,600.0	8,036.0	13,229.0	7,595.0	96.3	95.2	-49.56	5,260.2	309.9	680.0	532.8	147.17	4.620		
13,700.0	8,036.0	13,329.0	7,595.0	98.0	96.9	-49.40	5,360.1	311.5	677.8	528.3	149.50	4.534		
13,800.0	8,036.0	13,428.9	7,595.0	99.8	98.7	-49.24	5,460.1	313.0	675.6	523.8	151.81	4.451		
13,900.0	8,036.0	13,528.9	7,595.0	101.5	100.4	-49.09	5,560.0	314.5	673.5	519.4	154.10	4.370		
14,000.0	8,036.0	13,628.8	7,595.0	103.2	102.1	-48.93	5,660.0	316.0	671.3	514.9	156.38	4.293		
14,100.0	8,036.0	13,728.8	7,595.0	104.9	103.9	-48.76	5,759.9	317.5	669.2	510.5	158.65	4.218		
14,200.0	8,036.0	13,828.7	7,595.0	106.6	105.6	-48.60	5,859.9	319.0	667.0	506.1	160.90	4.145		
14,300.0	8,036.0	13,928.7	7,595.0	108.4	107.3	-48.44	5,959.8	320.5	664.9	501.7	163.13	4.075		
14,400.0	8,036.0	14,028.7	7,595.0	110.1	109.1	-48.27	6,059.8	322.0	662.7	497.4	165.35	4.008		
14,500.0	8,036.0	14,128.6	7,595.0	111.8	110.8	-48.11	6,159.7	323.5	660.6	493.0	167.56	3.942		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
14,600.0	8,036.0	14,228.6	7,595.0	113.5	112.6	-47.94	6,259.7	325.0	658.4	488.7	169.74	3.879		
14,700.0	8,036.0	14,328.5	7,595.0	115.3	114.3	-47.77	6,359.6	326.5	656.3	484.4	171.91	3.818		
14,800.0	8,036.0	14,428.5	7,595.0	117.0	116.0	-47.60	6,459.6	328.0	654.2	480.1	174.07	3.758		
14,900.0	8,036.0	14,528.5	7,595.0	118.7	117.8	-47.43	6,559.5	329.5	652.1	475.9	176.20	3.701		
15,000.0	8,036.0	14,628.4	7,595.0	120.4	119.5	-47.26	6,659.4	331.0	650.0	471.6	178.32	3.645		
15,100.0	8,036.0	14,728.4	7,595.0	122.2	121.3	-47.09	6,759.4	332.5	647.9	467.4	180.42	3.591		
15,200.0	8,036.0	14,828.3	7,595.0	123.9	123.0	-46.92	6,859.3	334.0	645.8	463.3	182.50	3.538		
15,300.0	8,036.0	14,928.3	7,595.0	125.6	124.7	-46.74	6,959.3	335.5	643.7	459.1	184.57	3.487		
15,400.0	8,036.0	15,028.3	7,595.0	127.4	126.5	-46.57	7,059.2	337.1	641.6	455.0	186.61	3.438		
15,500.0	8,036.0	15,128.2	7,595.0	129.1	128.2	-46.39	7,159.2	338.6	639.5	450.9	188.64	3.390		
15,600.0	8,036.0	15,228.2	7,595.0	130.8	130.0	-46.21	7,259.1	340.1	637.4	446.8	190.65	3.343		
15,700.0	8,036.0	15,328.1	7,595.0	132.6	131.7	-46.03	7,359.1	341.6	635.4	442.7	192.64	3.298		
15,800.0	8,036.0	15,428.1	7,595.0	134.3	133.5	-45.85	7,459.0	343.1	633.3	438.7	194.61	3.254		
15,900.0	8,036.0	15,528.0	7,595.0	136.0	135.2	-45.67	7,559.0	344.6	631.2	434.7	196.56	3.212		
16,000.0	8,036.0	15,628.0	7,595.0	137.8	136.9	-45.49	7,658.9	346.1	629.2	430.7	198.49	3.170		
16,100.0	8,036.0	15,728.0	7,595.0	139.5	138.7	-45.31	7,758.9	347.6	627.2	426.8	200.39	3.130		
16,200.0	8,036.0	15,827.9	7,595.0	141.2	140.4	-45.12	7,858.8	349.1	625.1	422.8	202.28	3.090		
16,300.0	8,036.0	15,927.9	7,595.0	143.0	142.2	-44.94	7,958.8	350.6	623.1	418.9	204.15	3.052		
16,400.0	8,036.0	16,027.8	7,595.0	144.7	143.9	-44.75	8,058.7	352.1	621.1	415.1	205.99	3.015		
16,500.0	8,036.0	16,127.8	7,595.0	146.4	145.7	-44.56	8,158.7	353.6	619.0	411.2	207.82	2.979		
16,600.0	8,036.0	16,227.8	7,595.0	148.2	147.4	-44.37	8,258.6	355.1	617.0	407.4	209.62	2.944		
16,700.0	8,036.0	16,327.7	7,595.0	149.9	149.2	-44.18	8,358.6	356.6	615.0	403.6	211.40	2.909		
16,800.0	8,036.0	16,427.7	7,595.0	151.6	150.9	-43.99	8,458.5	358.1	613.0	399.9	213.15	2.876		
16,900.0	8,036.0	16,527.6	7,595.0	153.4	152.6	-43.79	8,558.5	359.6	611.1	396.2	214.89	2.844		
17,000.0	8,036.0	16,627.6	7,595.0	155.1	154.4	-43.60	8,658.4	361.1	609.1	392.5	216.60	2.812		
17,100.0	8,036.0	16,727.6	7,595.0	156.9	156.1	-43.40	8,758.3	362.6	607.1	388.8	218.28	2.781		
17,200.0	8,036.0	16,827.5	7,595.0	158.6	157.9	-43.21	8,858.3	364.2	605.1	385.2	219.94	2.751		
17,300.0	8,036.0	16,927.5	7,595.0	160.3	159.6	-43.01	8,958.2	365.7	603.2	381.6	221.58	2.722		
17,387.1	8,036.0	17,003.3	7,595.0	161.9	161.0	-42.86	9,034.1	366.8	601.6	378.6	222.94	2.698		
17,400.0	8,036.0	17,003.3	7,595.0	162.1	161.0	-42.86	9,034.1	366.8	601.7	378.6	223.10	2.697 SF		
17,500.0	8,036.0	17,003.3	7,595.0	163.8	161.0	-42.86	9,034.1	366.8	612.0	387.7	224.29	2.728		
17,600.0	8,036.0	17,003.3	7,595.0	165.6	161.0	-42.86	9,034.1	366.8	638.0	412.5	225.49	2.829		
17,700.0	8,036.0	17,003.3	7,595.0	167.3	161.0	-42.86	9,034.1	366.8	677.9	451.2	226.69	2.990		
17,800.0	8,036.0	17,003.3	7,595.0	169.0	161.0	-42.86	9,034.1	366.8	729.4	501.5	227.88	3.201		
17,826.5	8,036.0	17,003.3	7,595.0	169.5	161.0	-42.86	9,034.1	366.8	744.7	516.5	228.20	3.263		
17,827.1	8,036.0	17,003.3	7,595.0	169.5	161.0	-42.86	9,034.1	366.8	745.0	516.8	228.21	3.265		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SUR														Offset Site Error:	0.0 ft
Survey Program: 218-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-5.04	328.3	29.9	329.8						
100.0	100.0	92.1	92.1	0.1	0.2	-4.98	327.8	30.2	329.1	328.8	0.28	1,162.244			
200.0	200.0	196.2	196.2	0.3	0.3	-4.77	326.1	31.6	327.4	326.8	0.64	514.274			
300.0	300.0	300.1	300.0	0.5	0.5	-4.74	323.1	32.0	324.5	323.5	0.99	327.513			
400.0	400.0	401.7	401.4	0.6	0.7	-5.68	318.7	27.1	320.6	319.3	1.33	240.580			
500.0	500.0	501.2	500.3	0.8	1.0	-138.74	313.6	17.1	317.9	316.2	1.75	182.026			
523.9	523.9	524.0	522.8	0.9	1.0	-139.40	312.4	14.1	317.8	316.0	1.86	171.070 CC, ES			
600.0	599.8	595.6	593.5	1.0	1.2	-141.88	308.7	3.2	319.2	317.0	2.21	144.198			
700.0	699.5	684.0	680.3	1.2	1.6	-145.59	304.8	-13.2	326.2	323.4	2.72	119.794			
800.0	798.7	778.0	771.9	1.5	1.9	-150.03	301.6	-33.6	339.8	336.5	3.30	103.042			
832.4	830.7	801.2	794.5	1.6	2.0	-151.15	301.2	-39.1	345.9	342.5	3.46	100.075			
900.0	897.6	855.0	846.6	1.8	2.3	-153.80	300.9	-52.3	361.0	357.2	3.81	94.826			
1,000.0	996.5	943.2	932.0	2.0	2.7	-157.76	302.2	-74.7	387.1	382.8	4.33	89.457			
1,100.0	1,095.3	1,034.1	1,019.8	2.3	3.1	-161.29	304.2	-97.6	415.5	410.7	4.83	86.087			
1,200.0	1,194.2	1,120.6	1,103.5	2.6	3.5	-164.24	306.7	-119.8	446.1	440.8	5.30	84.218			
1,300.0	1,293.0	1,204.8	1,184.4	2.9	3.9	-166.85	309.9	-142.4	479.2	473.5	5.74	83.535 SF			
1,400.0	1,391.9	1,283.8	1,260.2	3.2	4.3	-169.00	314.1	-164.5	515.0	508.8	6.14	83.921			
1,500.0	1,490.8	1,363.9	1,336.6	3.6	4.8	-170.87	320.4	-187.8	553.9	547.4	6.51	85.135			
1,600.0	1,589.6	1,454.1	1,422.6	3.9	5.2	-172.66	328.2	-213.9	594.0	587.1	6.93	85.760			
1,700.0	1,688.5	1,543.0	1,507.3	4.2	5.7	-174.21	336.0	-239.7	634.6	627.3	7.30	86.886			
1,800.0	1,787.4	1,636.5	1,596.4	4.5	6.3	-175.65	344.1	-266.9	675.5	667.9	7.69	87.875			
1,900.0	1,886.2	1,740.0	1,695.4	4.8	6.8	-177.10	351.8	-296.2	715.4	707.4	8.09	88.392			
2,000.0	1,985.1	1,834.2	1,785.6	5.1	7.3	-178.34	357.3	-322.7	754.6	746.1	8.47	89.042			
2,100.0	2,083.9	1,925.7	1,873.3	5.4	7.8	-179.37	363.3	-348.0	794.0	785.2	8.84	89.864			
2,200.0	2,182.8	2,020.2	1,964.1	5.7	8.3	-179.70	369.3	-373.5	833.0	823.8	9.20	90.548			
2,300.0	2,281.7	2,101.0	2,041.7	6.1	8.7	-179.00	375.2	-395.4	872.7	863.2	9.53	91.552			
2,400.0	2,380.5	2,179.0	2,116.2	6.4	9.2	-178.36	381.3	-417.4	913.8	904.0	9.87	92.633			
2,500.0	2,479.4	2,259.6	2,193.0	6.7	9.6	-177.72	387.8	-441.2	956.2	946.0	10.20	93.700			
2,600.0	2,578.3	2,344.5	2,273.6	7.0	10.1	-177.11	395.2	-466.6	999.3	988.7	10.54	94.812			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SUR										Offset Site Error:		0.0 ft	
Survey Program:		216-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)					
10,200.0	8,036.0	8,190.4	8,075.2	40.1	21.7	-91.16	2,053.7	-100.4	995.0	936.4	58.63	16.971			
10,300.0	8,036.0	8,192.1	8,076.9	41.7	21.7	-91.27	2,053.7	-100.4	978.3	918.1	60.25	16.237			
10,400.0	8,036.0	8,193.9	8,078.7	43.2	21.7	-91.37	2,053.7	-100.3	971.7	909.9	61.89	15.702			
10,414.3	8,036.0	8,194.2	8,078.9	43.4	21.7	-91.38	2,053.7	-100.3	971.6	909.5	62.12	15.641	CC, ES		
10,500.0	8,036.0	8,195.7	8,080.5	44.7	21.7	-91.47	2,053.8	-100.3	975.4	911.9	63.53	15.353			
10,600.0	8,036.0	8,197.4	8,082.2	46.3	21.7	-91.58	2,053.8	-100.3	989.2	924.0	65.18	15.176	SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SUR													Offset Site Error:	0.0 ft
Survey Program: 1020-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	12.74	280.1	122.1	287.5					
100.0	100.0	87.6	87.6	0.1	0.2	12.75	280.1	122.2	287.2	286.9	0.28	1,036.088		
200.0	200.0	187.6	187.6	0.3	0.3	12.80	280.0	122.5	287.2	286.5	0.63	458.808		
300.0	300.0	287.7	287.7	0.5	0.5	12.89	279.8	122.9	287.1	286.1	0.97	294.600		
400.0	400.0	387.8	387.7	0.6	0.7	13.02	279.6	123.5	287.0	285.7	1.32	216.918		
405.3	405.3	393.1	393.1	0.7	0.7	-117.89	279.6	123.5	287.0	285.7	1.35	213.039		
500.0	500.0	487.8	487.8	0.8	0.9	-118.03	279.3	124.3	287.8	286.1	1.68	171.264		
600.0	599.8	587.8	587.8	1.0	1.0	-118.70	279.0	125.2	290.1	288.1	2.04	142.176		
700.0	699.5	687.6	687.5	1.2	1.2	-119.88	278.6	126.3	294.2	291.8	2.42	121.669		
800.0	798.7	787.1	787.0	1.5	1.4	-121.53	278.1	127.6	300.2	297.4	2.82	106.481		
832.4	830.7	819.2	819.2	1.6	1.4	-122.15	278.0	128.1	302.6	299.7	2.95	102.479		
900.0	897.6	886.3	886.2	1.8	1.6	-123.55	277.6	129.1	308.0	304.7	3.23	95.202		
1,000.0	996.5	985.5	985.4	2.0	1.7	-125.51	277.0	130.7	316.1	312.5	3.65	86.533		
1,100.0	1,095.3	1,091.0	1,090.9	2.3	1.9	-127.52	275.7	132.2	324.0	319.9	4.08	79.430		
1,200.0	1,194.2	1,201.9	1,201.7	2.6	2.1	-129.94	271.0	131.3	329.2	324.7	4.50	73.184		
1,300.0	1,293.0	1,322.1	1,321.3	2.9	2.4	-132.84	259.6	128.2	329.7	324.8	4.92	67.016		
1,400.0	1,391.9	1,431.5	1,429.6	3.2	2.6	-135.56	244.3	125.3	326.2	320.9	5.32	61.365		
1,500.0	1,490.8	1,541.2	1,537.5	3.6	2.9	-138.74	225.3	120.5	320.3	314.6	5.70	56.195		
1,600.0	1,589.6	1,647.7	1,641.5	3.9	3.3	-142.13	203.2	115.5	311.9	305.9	6.08	51.339		
1,700.0	1,688.5	1,748.3	1,739.4	4.2	3.6	-145.77	180.5	109.7	303.0	296.5	6.45	46.941		
1,800.0	1,787.4	1,852.3	1,840.0	4.5	4.0	-150.09	155.4	102.5	294.2	287.3	6.86	42.915		
1,900.0	1,886.2	1,948.6	1,933.2	4.8	4.4	-154.09	131.4	97.2	285.7	278.5	7.26	39.331		
2,000.0	1,985.1	2,049.0	2,030.3	5.1	4.9	-158.34	106.6	92.4	278.6	270.9	7.72	36.092		
2,100.0	2,083.9	2,148.9	2,126.8	5.4	5.3	-162.82	80.8	88.0	272.1	263.9	8.22	33.115		
2,200.0	2,182.8	2,244.6	2,219.2	5.7	5.7	-167.20	56.3	84.1	267.3	258.5	8.75	30.552		
2,300.0	2,281.7	2,339.3	2,310.8	6.1	6.1	-171.60	32.9	79.9	265.0	255.7	9.32	28.421		
2,348.4	2,329.5	2,386.5	2,356.6	6.2	6.3	-173.78	21.5	77.8	264.8	255.2	9.62	27.515 CC		
2,400.0	2,380.5	2,437.1	2,405.6	6.4	6.6	-176.08	9.4	75.6	265.0	255.1	9.96	26.612 ES		
2,500.0	2,479.4	2,535.5	2,501.0	6.7	7.0	-179.34	-14.8	71.1	266.6	255.9	10.67	24.989		
2,600.0	2,578.3	2,633.2	2,595.5	7.0	7.5	-174.75	-39.4	66.5	269.5	258.1	11.43	23.580		
2,700.0	2,677.1	2,727.3	2,686.5	7.3	7.9	-170.49	-62.4	61.5	275.1	262.9	12.21	22.536		
2,800.0	2,776.0	2,825.5	2,781.8	7.6	8.3	-166.40	-85.5	56.2	282.8	269.8	13.02	21.720		
2,900.0	2,874.9	2,924.6	2,877.9	7.9	8.8	-162.48	-109.3	51.6	291.1	277.3	13.88	20.983		
3,000.0	2,973.7	3,019.3	2,969.4	8.3	9.2	-158.69	-133.0	46.0	301.5	286.8	14.74	20.451		
3,100.0	3,072.6	3,118.3	3,064.9	8.6	9.7	-154.85	-158.6	39.9	313.3	297.6	15.65	20.012		
3,200.0	3,171.4	3,214.1	3,157.4	8.9	10.1	-151.52	-182.7	34.5	325.9	309.4	16.51	19.737		
3,300.0	3,270.3	3,308.1	3,248.3	9.2	10.6	-148.57	-205.8	28.2	340.9	323.5	17.34	19.660		
3,400.0	3,369.2	3,408.1	3,345.1	9.5	11.1	-145.69	-230.4	21.4	356.6	338.4	18.20	19.596		
3,500.0	3,468.0	3,506.2	3,439.4	9.8	11.5	-142.81	-256.4	15.5	372.4	353.4	19.06	19.539 SF		
3,600.0	3,566.9	3,606.1	3,535.6	10.1	12.0	-140.19	-282.4	9.4	389.1	369.2	19.89	19.561		
3,700.0	3,665.8	3,705.1	3,631.4	10.5	12.5	-137.99	-307.0	4.5	405.4	384.7	20.67	19.609		
3,800.0	3,764.6	3,799.7	3,723.1	10.8	12.9	-136.15	-329.8	-0.6	422.5	401.1	21.41	19.731		
3,900.0	3,863.5	3,893.1	3,813.5	11.1	13.4	-134.40	-352.8	-6.3	440.9	418.7	22.14	19.912		
4,000.0	3,962.3	3,989.5	3,906.5	11.4	13.8	-132.69	-377.0	-12.9	460.3	437.5	22.88	20.119		
4,100.0	4,061.2	4,089.7	4,003.2	11.7	14.3	-131.02	-402.4	-19.4	479.9	456.3	23.62	20.315		
4,200.0	4,160.1	4,190.9	4,101.0	12.0	14.8	-129.50	-427.6	-25.2	499.1	474.7	24.36	20.491		
4,300.0	4,258.9	4,294.2	4,201.3	12.4	15.2	-128.22	-452.0	-30.4	517.6	492.6	25.05	20.666		
4,400.0	4,357.8	4,397.4	4,302.3	12.7	15.6	-127.44	-472.4	-35.3	535.3	509.6	25.67	20.852		
4,500.0	4,456.7	4,502.8	4,406.1	13.0	16.0	-127.00	-490.4	-39.8	551.9	525.6	26.27	21.008		
4,600.0	4,555.5	4,608.0	4,510.0	13.3	16.3	-126.79	-506.0	-43.3	567.3	540.4	26.84	21.137		
4,700.0	4,654.4	4,712.7	4,613.9	13.6	16.6	-126.83	-519.2	-46.3	581.8	554.4	27.37	21.258		
4,800.0	4,753.3	4,822.8	4,723.5	13.9	16.8	-127.18	-529.5	-48.6	594.8	567.0	27.87	21.347		

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SUR													Offset Site Error:	0.0 ft
Survey Program: 1020-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
4,900.0	4,852.1	4,926.1	4,826.5	14.3	17.0	127.70	-536.7	-49.6	606.3	578.0	28.33	21.404		
5,000.0	4,951.0	5,022.6	4,922.8	14.6	17.2	128.22	-543.0	-50.7	617.9	589.2	28.77	21.481		
5,100.0	5,049.8	5,117.8	5,017.9	14.9	17.3	128.79	-548.4	-52.4	630.2	601.0	29.19	21.591		
5,200.0	5,148.7	5,234.2	5,134.2	15.2	17.5	129.69	-552.5	-54.2	641.9	612.3	29.58	21.701		
5,300.0	5,247.6	5,333.1	5,233.1	15.5	17.6	130.62	-553.4	-54.3	651.9	622.0	29.93	21.784		
5,400.0	5,346.4	5,431.0	5,331.0	15.8	17.7	131.54	-554.1	-54.6	662.2	632.0	30.26	21.882		
5,500.0	5,445.3	5,527.3	5,427.2	16.1	17.8	132.43	-554.6	-55.2	673.0	642.4	30.59	22.002		
5,600.0	5,544.2	5,623.6	5,523.6	16.5	17.9	133.30	-555.1	-56.1	684.3	653.4	30.91	22.141		
5,700.0	5,643.0	5,722.1	5,622.1	16.8	18.0	134.16	-555.6	-57.2	696.0	664.7	31.23	22.288		
5,800.0	5,741.9	5,821.0	5,720.9	17.1	18.1	134.98	-556.2	-58.4	707.8	676.3	31.54	22.441		
5,900.0	5,840.7	5,921.2	5,821.1	17.4	18.2	135.80	-556.8	-59.5	719.7	687.8	31.85	22.599		
6,000.0	5,939.6	6,021.0	5,920.8	17.7	18.3	136.61	-557.0	-60.4	731.5	699.3	32.14	22.759		
6,100.0	6,038.5	6,119.6	6,019.5	18.0	18.4	137.41	-556.9	-61.2	743.4	711.0	32.42	22.928		
6,200.0	6,137.3	6,218.4	6,118.3	18.4	18.5	138.22	-556.4	-62.1	755.5	722.8	32.70	23.106		
6,300.0	6,236.2	6,317.3	6,217.2	18.7	18.6	139.02	-555.7	-62.9	767.7	734.7	32.96	23.289		
6,400.0	6,335.1	6,419.0	6,318.9	19.0	18.7	139.84	-554.6	-63.7	779.9	746.7	33.21	23.482		
6,500.0	6,433.9	6,523.2	6,423.1	19.3	18.7	140.72	-552.6	-63.8	791.6	758.2	33.44	23.676		
6,600.0	6,532.8	6,624.5	6,524.3	19.6	18.8	141.62	-549.8	-63.2	803.0	769.3	33.65	23.866		
6,700.0	6,631.7	6,724.8	6,624.6	19.9	18.8	142.51	-546.6	-62.5	814.3	780.5	33.85	24.059		
6,800.0	6,730.5	6,816.4	6,716.1	20.3	18.9	143.31	-543.4	-62.0	826.1	792.0	34.04	24.266		
6,900.0	6,829.4	6,906.4	6,806.0	20.6	19.0	144.10	-540.1	-62.4	839.0	804.8	34.23	24.508		
6,981.6	6,910.1	6,981.4	6,881.0	20.8	19.0	144.74	-537.1	-63.3	850.4	816.0	34.38	24.735		
7,000.0	6,928.3	6,998.4	6,898.0	20.9	19.0	149.86	-536.4	-63.6	853.0	818.6	34.40	24.799		
7,100.0	7,027.5	7,091.5	6,990.9	21.1	19.1	-170.89	-532.0	-65.4	867.1	832.6	34.44	25.178		
7,200.0	7,126.7	7,190.3	7,089.5	21.2	19.1	-133.22	-526.6	-67.6	880.4	846.0	34.46	25.550		
7,300.0	7,225.2	7,290.7	7,189.7	21.3	19.1	-114.33	-520.3	-69.6	892.4	858.0	34.47	25.888		
7,400.0	7,322.1	7,395.7	7,294.5	21.3	19.2	-105.64	-513.1	-71.2	902.9	868.5	34.48	26.188		
7,500.0	7,416.8	7,499.7	7,398.2	21.2	19.2	-101.57	-505.4	-71.8	911.9	877.4	34.46	26.459		
7,600.0	7,508.4	7,599.1	7,497.3	21.1	19.2	-99.89	-498.0	-71.7	920.1	885.7	34.41	26.739		
7,700.0	7,596.4	7,695.1	7,593.0	21.0	19.2	-99.64	-490.7	-71.1	928.5	894.2	34.32	27.055		
7,800.0	7,680.0	7,784.2	7,682.0	20.8	19.3	-100.29	-486.0	-70.2	938.2	904.0	34.22	27.421		
7,900.0	7,758.7	7,865.2	7,763.0	20.7	19.4	-101.41	-484.1	-69.0	950.7	916.7	34.03	27.937		
7,989.6	7,824.4	7,931.1	7,828.8	20.6	19.5	-102.51	-483.9	-67.8	965.6	931.7	33.84	28.531		
8,000.0	7,831.7	7,938.3	7,836.1	20.6	19.5	-102.53	-483.9	-67.7	967.5	933.7	33.82	28.610		
8,050.0	7,865.3	7,971.3	7,869.1	20.6	19.6	-102.59	-484.2	-67.1	978.0	944.3	33.70	29.022		
8,100.0	7,896.2	8,001.2	7,899.0	20.5	19.6	-102.55	-484.6	-66.5	990.1	956.5	33.59	29.476		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29XD (EXISTING) - SYNERGY WELL - GYR														Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	14.04	276.5	128.0	286.2						
100.0	100.0	73.8	73.8	0.1	0.1	14.09	276.5	128.2	285.1	284.9	0.25	1,123.800 CC			
200.0	200.0	174.4	174.4	0.3	0.3	14.26	276.5	129.1	285.3	284.7	0.60	472.336			
300.0	300.0	269.1	269.1	0.5	0.5	14.57	276.7	130.8	286.0	285.0	0.94	302.773			
400.0	400.0	361.0	360.9	0.6	0.7	15.34	278.6	135.2	289.3	288.0	1.28	226.046			
500.0	500.0	452.6	452.0	0.8	0.9	-114.51	282.3	142.8	296.2	294.5	1.67	177.401			
600.0	599.8	543.3	542.0	1.0	1.1	-113.56	287.8	153.0	307.3	305.2	2.06	148.928			
700.0	699.5	633.8	631.3	1.2	1.4	-112.73	295.1	166.0	322.7	320.2	2.50	129.132			
800.0	798.7	725.3	721.0	1.5	1.8	-111.99	303.6	181.8	341.7	338.7	2.99	114.116			
832.4	830.7	754.5	749.5	1.6	1.9	-111.78	306.5	187.4	348.5	345.3	3.17	110.089			
900.0	897.6	816.0	809.3	1.8	2.2	-111.55	313.2	200.1	363.6	360.1	3.54	102.825			
1,000.0	996.5	910.6	901.0	2.0	2.6	-111.06	323.8	220.9	386.9	382.8	4.12	93.933			
1,100.0	1,095.3	1,007.2	994.4	2.3	3.1	-110.51	334.7	243.0	410.7	405.9	4.72	86.925			
1,200.0	1,194.2	1,109.4	1,093.1	2.6	3.6	-109.86	345.4	267.1	433.8	428.5	5.37	80.840			
1,300.0	1,293.0	1,209.4	1,189.8	2.9	4.0	-109.23	354.9	290.7	456.2	450.2	6.00	75.977			
1,400.0	1,391.9	1,312.0	1,289.0	3.2	4.5	-108.59	363.5	315.2	477.8	471.1	6.67	71.677			
1,500.0	1,490.8	1,406.6	1,380.5	3.6	5.0	-107.94	371.0	338.4	499.2	491.9	7.31	68.314			
1,600.0	1,589.6	1,500.0	1,470.5	3.9	5.5	-107.32	379.1	361.9	521.5	513.6	7.94	65.680			
1,700.0	1,688.5	1,595.2	1,562.2	4.2	5.9	-106.77	387.9	385.8	544.5	535.9	8.58	63.484			
1,800.0	1,787.4	1,701.5	1,664.9	4.5	6.5	-106.25	397.2	411.9	566.7	557.5	9.25	61.291			
1,900.0	1,886.2	1,800.0	1,760.2	4.8	6.9	-105.84	405.1	435.3	588.1	578.2	9.89	59.490			
2,000.0	1,985.1	1,897.0	1,854.1	5.1	7.4	-105.48	413.0	458.3	609.5	599.0	10.52	57.940			
2,100.0	2,083.9	1,997.7	1,951.6	5.4	7.9	-105.08	420.7	482.5	630.8	619.6	11.18	56.416			
2,200.0	2,182.8	2,093.1	2,043.7	5.7	8.4	-104.67	427.7	506.0	652.0	640.1	11.82	55.155			
2,300.0	2,281.7	2,186.7	2,134.0	6.1	8.8	-104.25	434.8	529.6	673.7	661.2	12.46	54.045			
2,400.0	2,380.5	2,288.8	2,232.4	6.4	9.3	-103.80	442.4	555.6	695.4	682.3	13.12	52.986			
2,500.0	2,479.4	2,380.8	2,321.4	6.7	9.8	-103.51	449.7	578.1	717.1	703.4	13.73	52.217			
2,600.0	2,578.3	2,477.3	2,414.7	7.0	10.3	-103.30	458.3	601.1	739.4	725.1	14.36	51.484			
2,700.0	2,677.1	2,576.6	2,510.7	7.3	10.7	-103.05	466.8	625.1	761.6	746.6	15.01	50.735			
2,800.0	2,776.0	2,662.4	2,593.5	7.6	11.2	-102.81	474.1	646.5	784.2	768.6	15.60	50.257			
2,900.0	2,874.9	2,761.4	2,688.8	7.9	11.7	-102.60	484.1	671.2	808.1	791.9	16.25	49.747			
3,000.0	2,973.7	2,860.5	2,784.3	8.3	12.2	-102.35	492.9	696.0	831.0	814.1	16.89	49.193			
3,100.0	3,072.6	2,952.8	2,873.1	8.6	12.7	-102.09	501.3	719.8	854.5	837.0	17.52	48.783			
3,200.0	3,171.4	3,050.4	2,967.0	8.9	13.2	-101.84	510.5	745.0	878.3	860.1	18.16	48.370			
3,300.0	3,270.3	3,152.1	3,064.7	9.2	13.7	-101.58	519.5	771.3	901.6	882.8	18.81	47.927			
3,400.0	3,369.2	3,251.4	3,160.3	9.5	14.2	-101.32	528.0	797.0	924.7	905.2	19.46	47.513			
3,500.0	3,468.0	3,353.5	3,258.6	9.8	14.8	-101.05	536.3	823.5	947.5	927.4	20.13	47.079			
3,600.0	3,566.9	3,456.0	3,357.3	10.1	15.3	-100.76	543.6	850.4	969.6	948.8	20.79	46.639			
3,700.0	3,665.8	3,551.6	3,449.2	10.5	15.8	-100.49	550.4	875.4	991.6	970.2	21.43	46.272			
8,100.0	7,896.2	7,996.6	7,856.7	20.5	24.9	24.62	691.6	1,204.7	962.8	934.5	28.25	34.082			
8,150.0	7,924.4	8,024.8	7,884.9	20.5	25.0	28.89	691.9	1,205.1	923.5	896.6	26.95	34.267			
8,200.0	7,949.6	8,050.0	7,910.1	20.5	25.0	33.97	692.1	1,205.5	882.7	856.7	26.06	33.870			
8,250.0	7,971.8	8,072.3	7,932.4	20.6	25.0	40.00	692.4	1,205.8	840.8	815.0	25.79	32.602			
8,300.0	7,990.8	8,091.6	7,951.7	20.6	25.0	47.04	692.6	1,206.1	797.8	771.6	26.24	30.400			
8,350.0	8,006.6	8,107.9	7,968.0	20.7	25.1	55.02	692.8	1,206.4	754.2	726.9	27.34	27.581			
8,400.0	8,019.1	8,121.0	7,981.1	20.8	25.1	63.62	693.0	1,206.6	710.3	681.5	28.77	24.690			
8,450.0	8,028.1	8,130.7	7,990.8	21.0	25.1	72.27	693.1	1,206.7	666.4	636.3	30.08	22.156			
8,500.0	8,033.7	8,137.0	7,997.1	21.1	25.1	80.34	693.2	1,206.8	623.0	592.1	30.96	20.122			
8,550.0	8,035.9	8,139.8	7,999.8	21.3	25.1	87.31	693.2	1,206.9	580.5	549.2	31.34	18.523			
8,556.4	8,036.0	8,139.9	7,999.9	21.4	25.1	88.10	693.2	1,206.9	575.2	543.8	31.36	18.344			
8,600.0	8,036.0	8,140.4	8,000.5	21.6	25.1	88.19	693.2	1,206.9	539.3	507.7	31.65	17.041			
8,700.0	8,036.0	8,141.6	8,001.6	22.2	25.1	88.41	693.2	1,206.9	462.2	429.8	32.44	14.251			

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>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29XD (EXISTING) - SYNERGY WELL - GYR													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis			
8,800.0	8,036.0	8,142.7	8,002.8	22.9	25.1	88.62	693.3	1,206.9	395.5	362.2	33.36	11.855		
8,900.0	8,036.0	8,143.9	8,004.0	23.7	25.1	88.84	693.3	1,206.9	345.3	310.9	34.41	10.034		
9,000.0	8,036.0	8,145.1	8,005.2	24.6	25.1	89.05	693.3	1,206.9	319.4	283.8	35.56	8.981		
9,036.2	8,036.0	8,145.5	8,005.6	24.9	25.1	89.13	693.3	1,206.9	317.3	281.3	36.00	8.813 ES		
9,100.0	8,036.0	8,146.3	8,006.4	25.6	25.1	89.26	693.3	1,207.0	323.7	286.9	36.79	8.798 SF		
9,200.0	8,036.0	8,147.5	8,007.6	26.7	25.1	89.48	693.3	1,207.0	357.1	319.0	38.09	9.375		
9,300.0	8,036.0	8,148.7	8,008.7	27.8	25.1	89.69	693.3	1,207.0	412.7	373.2	39.45	10.460		
9,400.0	8,036.0	8,149.8	8,009.9	29.0	25.1	89.90	693.3	1,207.0	482.8	441.9	40.86	11.814		
9,500.0	8,036.0	8,151.0	8,011.1	30.3	25.1	90.11	693.4	1,207.0	562.0	519.7	42.31	13.282		
9,600.0	8,036.0	8,152.2	8,012.3	31.6	25.1	90.33	693.4	1,207.0	647.0	603.2	43.79	14.773		
9,700.0	8,036.0	8,153.3	8,013.4	32.9	25.1	90.54	693.4	1,207.1	735.7	690.4	45.31	16.239		
9,800.0	8,036.0	8,154.5	8,014.6	34.3	25.1	90.75	693.4	1,207.1	827.1	780.2	46.84	17.656		
9,900.0	8,036.0	8,155.7	8,015.8	35.7	25.1	90.96	693.4	1,207.1	920.2	871.8	48.40	19.012		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL - S														Offset Site Error:	0.0 ft
Survey Program: 127-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-6.53	339.9	19.9	342.4						
100.0	100.0	87.1	87.1	0.1	0.1	-6.53	339.9	19.9	342.2	341.9	0.26	1,309.817	CC, ES		
200.0	200.0	184.4	184.4	0.3	0.3	-6.55	340.3	19.7	342.6	342.0	0.60	571.977			
300.0	300.0	283.3	283.2	0.5	0.5	-6.65	341.4	19.0	343.8	342.9	0.95	362.845			
400.0	400.0	384.3	384.3	0.6	0.7	-6.85	342.4	17.7	344.9	343.6	1.30	265.294			
500.0	500.0	482.2	482.2	0.8	0.8	-138.16	343.3	16.1	347.3	345.7	1.65	211.021			
600.0	599.8	580.6	580.5	1.0	1.0	-139.14	344.6	12.8	353.0	351.0	2.00	176.138			
700.0	699.5	680.4	680.2	1.2	1.2	-140.71	345.7	7.8	361.6	359.2	2.38	152.079			
800.0	798.7	776.0	775.6	1.5	1.4	-142.51	346.9	2.3	373.5	370.8	2.76	135.475			
832.4	830.7	806.6	806.1	1.6	1.4	-143.11	347.5	0.5	378.2	375.4	2.88	131.405			
900.0	897.6	870.0	869.4	1.8	1.6	-144.38	349.0	-2.7	388.9	385.7	3.13	124.086			
1,000.0	996.5	963.6	962.8	2.0	1.8	-146.03	352.3	-7.0	405.8	402.3	3.51	115.681			
1,100.0	1,095.3	1,055.0	1,054.1	2.3	1.9	-147.47	356.6	-11.1	424.2	420.3	3.87	109.476			
1,200.0	1,194.2	1,149.0	1,147.8	2.6	2.1	-148.78	362.5	-15.3	444.2	440.0	4.24	104.752			
1,300.0	1,293.0	1,229.6	1,228.0	2.9	2.3	-149.87	369.1	-20.0	466.8	462.2	4.59	101.717			
1,400.0	1,391.9	1,311.8	1,309.4	3.2	2.6	-151.05	377.8	-26.8	492.4	487.5	4.94	99.783			
1,500.0	1,490.8	1,394.3	1,390.9	3.6	2.8	-152.18	388.3	-35.0	521.0	515.7	5.28	98.691			
1,600.0	1,589.6	1,475.2	1,470.4	3.9	3.1	-153.26	400.2	-44.3	552.1	546.4	5.62	98.266	SF		
1,700.0	1,688.5	1,556.1	1,549.4	4.2	3.4	-154.32	413.6	-55.0	585.7	579.8	5.95	98.429			
1,800.0	1,787.4	1,642.1	1,633.1	4.5	3.7	-155.29	429.4	-66.7	621.2	615.0	6.29	98.802			
1,900.0	1,886.2	1,731.2	1,719.7	4.8	4.1	-156.23	445.9	-79.4	657.4	650.7	6.63	99.169			
2,000.0	1,985.1	1,809.5	1,795.5	5.1	4.4	-157.04	461.2	-91.6	695.1	688.1	6.95	100.014			
2,100.0	2,083.9	1,898.0	1,880.9	5.4	4.8	-157.89	479.4	-106.3	734.2	726.9	7.28	100.800			
2,200.0	2,182.8	1,980.5	1,960.3	5.7	5.2	-158.58	497.1	-120.0	774.2	766.6	7.60	101.843			
2,300.0	2,281.7	2,050.3	2,027.2	6.1	5.6	-159.07	513.3	-131.4	815.7	807.8	7.90	103.224			
2,400.0	2,380.5	2,120.1	2,093.6	6.4	6.0	-159.50	531.2	-143.6	859.8	851.6	8.20	104.822			
2,500.0	2,479.4	2,201.0	2,170.0	6.7	6.4	-159.99	553.0	-158.8	905.5	897.0	8.52	106.337			
2,600.0	2,578.3	2,306.7	2,270.2	7.0	7.0	-160.55	580.6	-177.9	950.4	941.5	8.87	107.190			
2,700.0	2,677.1	2,392.7	2,351.9	7.3	7.5	-161.05	601.9	-194.4	994.7	985.5	9.19	108.282			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 217-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-0.95	319.8	53.5	320.9						
100.0	100.0	75.5	75.4	0.1	0.1	-0.89	319.7	53.8	319.8	319.6	0.26	1,228.609			
200.0	200.0	176.7	176.7	0.3	0.3	-0.61	319.3	55.4	319.3	318.7	0.62	518.064			
300.0	300.0	278.8	278.7	0.5	0.5	-0.24	318.3	57.5	318.4	317.4	0.97	327.805			
400.0	400.0	377.6	377.6	0.6	0.7	-0.31	317.0	57.1	317.1	315.7	1.31	241.117			
434.0	434.0	411.1	411.0	0.7	0.7	-131.38	316.7	56.4	316.9	315.5	1.43	221.858 CC, ES			
500.0	500.0	477.5	477.4	0.8	0.8	-131.91	316.1	54.6	317.4	315.7	1.66	191.414			
600.0	599.8	579.0	578.8	1.0	1.0	-133.24	314.8	50.9	319.8	317.7	2.02	158.491			
700.0	699.5	676.5	676.3	1.2	1.2	-134.96	313.5	47.1	324.7	322.3	2.38	136.211			
800.0	798.7	775.9	775.6	1.5	1.4	-136.78	312.6	44.5	332.8	330.1	2.77	120.314			
832.4	830.7	807.3	807.0	1.6	1.4	-137.37	312.4	43.9	336.1	333.2	2.89	116.254			
900.0	897.6	872.8	872.5	1.8	1.5	-138.69	312.0	42.7	343.5	340.3	3.15	108.908			
1,000.0	996.5	971.6	971.3	2.0	1.7	-140.59	311.6	40.9	354.9	351.3	3.54	100.106			
1,100.0	1,095.3	1,070.8	1,070.4	2.3	1.9	-142.43	311.0	38.7	366.5	362.6	3.93	93.150			
1,200.0	1,194.2	1,168.9	1,168.6	2.6	2.1	-144.15	310.5	36.5	378.6	374.3	4.32	87.660			
1,300.0	1,293.0	1,267.8	1,267.4	2.9	2.2	-145.79	309.9	34.2	391.0	386.3	4.70	83.176			
1,400.0	1,391.9	1,367.2	1,366.8	3.2	2.4	-147.34	309.3	31.8	403.7	398.6	5.08	79.503			
1,500.0	1,490.8	1,469.9	1,469.4	3.6	2.6	-148.80	308.1	29.9	415.9	410.4	5.46	76.176			
1,600.0	1,589.6	1,569.0	1,568.4	3.9	2.8	-150.56	305.3	25.1	427.8	421.9	5.84	73.272			
1,700.0	1,688.5	1,666.3	1,665.2	4.2	3.0	-152.65	301.5	17.2	440.3	434.1	6.22	70.809			
1,800.0	1,787.4	1,762.4	1,760.6	4.5	3.2	-155.05	296.5	6.0	453.7	447.0	6.61	68.682			
1,900.0	1,886.2	1,858.7	1,855.8	4.8	3.5	-157.63	290.7	-7.6	468.2	461.2	7.00	66.846			
2,000.0	1,985.1	1,958.6	1,954.1	5.1	3.8	-160.39	283.5	-23.5	483.4	476.0	7.43	65.099			
2,100.0	2,083.9	2,054.2	2,047.9	5.4	4.1	-163.09	275.1	-40.0	499.1	491.3	7.86	63.519			
2,200.0	2,182.8	2,144.0	2,135.6	5.7	4.4	-165.69	266.7	-57.4	516.7	508.4	8.30	62.240			
2,300.0	2,281.7	2,229.8	2,218.8	6.1	4.8	-168.26	258.4	-76.5	536.8	528.0	8.75	61.329			
2,400.0	2,380.5	2,323.1	2,308.9	6.4	5.1	-171.00	249.5	-99.1	559.5	550.2	9.24	60.548			
2,500.0	2,479.4	2,421.7	2,404.0	6.7	5.6	-173.75	239.0	-122.7	582.5	572.7	9.76	59.695			
2,600.0	2,578.3	2,519.6	2,498.4	7.0	6.0	-176.30	227.9	-146.2	606.1	595.9	10.28	58.951			
2,700.0	2,677.1	2,613.0	2,588.6	7.3	6.4	-178.56	216.9	-168.1	630.3	619.5	10.79	58.424			
2,800.0	2,776.0	2,703.8	2,676.4	7.6	6.8	-179.49	207.3	-189.1	655.8	644.6	11.28	58.148			
2,900.0	2,874.9	2,792.5	2,762.2	7.9	7.2	-177.76	198.7	-209.7	682.6	670.8	11.77	57.980			
3,000.0	2,973.7	2,885.1	2,851.4	8.3	7.7	-175.97	189.1	-232.5	710.7	698.4	12.29	57.845			
3,100.0	3,072.6	2,978.2	2,941.3	8.6	8.1	-174.30	179.2	-255.2	739.2	726.4	12.81	57.723 SF			
3,200.0	3,171.4	3,064.7	3,024.5	8.9	8.5	-172.83	170.0	-277.0	768.8	755.5	13.30	57.797			
3,300.0	3,270.3	3,209.0	3,165.0	9.2	8.7	-172.31	172.9	-298.7	797.8	784.3	13.48	59.189			
3,400.0	3,369.2	3,272.7	3,227.7	9.5	9.0	-172.90	182.6	-300.9	824.2	810.3	13.91	59.247			
3,500.0	3,468.0	3,361.7	3,314.1	9.8	9.4	-171.90	177.0	-321.1	854.3	839.9	14.40	59.343			
3,600.0	3,566.9	3,460.1	3,409.3	10.1	9.9	-170.65	167.3	-343.8	883.4	868.5	14.92	59.226			
3,700.0	3,665.8	3,549.6	3,495.7	10.5	10.3	-169.52	158.0	-365.3	913.3	897.9	15.42	59.229			
3,800.0	3,764.6	3,667.3	3,609.2	10.8	10.8	-168.08	144.5	-393.4	943.1	927.1	16.01	58.899			
3,900.0	3,863.5	3,756.1	3,695.2	11.1	11.3	-167.11	134.3	-412.9	971.5	955.0	16.51	58.858			



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 248-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)				
11,500.0	8,036.0	8,167.8	8,033.5	60.9	23.5	-85.93	4,042.7	465.0	972.6	891.1	81.55	11.927		
11,600.0	8,036.0	8,169.8	8,035.4	62.5	23.5	-86.22	4,042.7	465.0	881.4	798.1	83.28	10.584		
11,700.0	8,036.0	8,171.7	8,037.3	64.2	23.5	-86.51	4,042.8	464.9	792.4	707.3	85.01	9.321		
11,800.0	8,036.0	8,173.6	8,039.3	65.8	23.5	-86.80	4,042.8	464.9	706.2	619.5	86.75	8.141		
11,900.0	8,036.0	8,175.6	8,041.2	67.5	23.5	-87.09	4,042.8	464.8	624.2	535.7	88.48	7.055		
12,000.0	8,036.0	8,177.5	8,043.1	69.2	23.5	-87.38	4,042.9	464.8	548.2	458.0	90.22	6.077		
12,100.0	8,036.0	8,179.4	8,045.1	70.8	23.5	-87.68	4,042.9	464.7	481.1	389.1	91.95	5.232		
12,200.0	8,036.0	8,181.4	8,047.0	72.5	23.5	-87.97	4,042.9	464.7	427.0	333.3	93.69	4.557		
12,300.0	8,036.0	8,183.3	8,049.0	74.2	23.5	-88.26	4,043.0	464.6	391.4	296.0	95.43	4.101		
12,395.7	8,036.0	8,185.2	8,050.8	75.8	23.5	-88.55	4,043.0	464.6	379.5	282.4	97.09	3.909 CC		
12,400.0	8,036.0	8,185.3	8,050.9	75.9	23.5	-88.56	4,043.0	464.6	379.5	282.4	97.17	3.906 ES, SF		
12,500.0	8,036.0	8,187.3	8,052.9	77.6	23.5	-88.86	4,043.0	464.5	393.6	294.7	98.90	3.979		
12,600.0	8,036.0	8,189.2	8,054.9	79.3	23.5	-89.15	4,043.1	464.5	431.0	330.4	100.64	4.283		
12,700.0	8,036.0	8,191.2	8,056.8	81.0	23.5	-89.45	4,043.1	464.4	486.4	384.0	102.38	4.751		
12,800.0	8,036.0	8,193.2	8,058.8	82.7	23.5	-89.75	4,043.2	464.4	554.5	450.4	104.11	5.326		
12,900.0	8,036.0	8,195.1	8,060.8	84.4	23.5	-90.05	4,043.2	464.3	631.1	525.2	105.84	5.962		
13,000.0	8,036.0	8,197.1	8,062.8	86.1	23.5	-90.34	4,043.2	464.3	713.5	605.9	107.58	6.633		
13,100.0	8,036.0	8,199.1	8,064.7	87.8	23.5	-90.64	4,043.3	464.2	799.9	690.6	109.31	7.318		
13,200.0	8,036.0	8,201.1	8,066.7	89.5	23.5	-90.94	4,043.3	464.2	889.2	778.2	111.03	8.009		
13,300.0	8,036.0	8,203.1	8,068.7	91.2	23.5	-91.24	4,043.3	464.1	980.6	867.8	112.76	8.696		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 125-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		
9,900.0	8,036.0	8,150.7	8,080.4	35.7	19.2	-96.60	2,524.2	683.7	990.9	942.0	48.91	20.261		
10,000.0	8,036.0	8,148.8	8,078.6	37.2	19.2	-96.03	2,524.2	683.7	892.8	842.3	50.51	17.676		
10,100.0	8,036.0	8,147.0	8,076.7	38.7	19.2	-95.44	2,524.3	683.7	795.2	743.1	52.13	15.254		
10,200.0	8,036.0	8,145.1	8,074.8	40.1	19.2	-94.85	2,524.3	683.6	698.2	644.4	53.76	12.987		
10,300.0	8,036.0	8,143.1	8,072.9	41.7	19.2	-94.24	2,524.4	683.6	602.2	546.8	55.40	10.869		
10,400.0	8,036.0	8,141.2	8,070.9	43.2	19.2	-93.62	2,524.4	683.6	507.8	450.7	57.06	8.899		
10,500.0	8,036.0	8,139.2	8,068.9	44.7	19.2	-93.00	2,524.4	683.6	415.9	357.2	58.72	7.083		
10,600.0	8,036.0	8,137.2	8,066.9	46.3	19.2	-92.36	2,524.5	683.6	328.8	268.4	60.38	5.445		
10,700.0	8,036.0	8,135.1	8,064.9	47.9	19.2	-91.70	2,524.5	683.5	251.5	189.4	62.05	4.053		
10,800.0	8,036.0	8,133.0	8,062.8	49.5	19.2	-91.04	2,524.6	683.5	195.9	132.1	63.72	3.074		
10,874.4	8,036.0	8,131.4	8,061.2	50.7	19.2	-90.54	2,524.6	683.5	181.2	116.2	64.96	2.789 CC, ES, SF		
10,900.0	8,036.0	8,130.9	8,060.6	51.1	19.2	-90.36	2,524.6	683.5	183.0	117.6	65.38	2.798		
11,000.0	8,036.0	8,128.7	8,058.4	52.7	19.2	-89.68	2,524.7	683.5	220.4	153.4	67.05	3.287		
11,100.0	8,036.0	8,126.5	8,056.2	54.3	19.2	-88.98	2,524.7	683.5	289.3	220.6	68.71	4.210		
11,200.0	8,036.0	8,124.2	8,054.0	55.9	19.2	-88.26	2,524.8	683.4	372.5	302.2	70.37	5.294		
11,300.0	8,036.0	8,121.9	8,051.7	57.6	19.2	-87.54	2,524.8	683.4	462.4	390.4	72.02	6.421		
11,400.0	8,036.0	8,119.6	8,049.3	59.2	19.2	-86.80	2,524.9	683.4	555.8	482.1	73.65	7.546		
11,500.0	8,036.0	8,117.2	8,047.0	60.9	19.2	-86.05	2,524.9	683.4	651.1	575.8	75.28	8.649		
11,600.0	8,036.0	8,114.8	8,044.5	62.5	19.2	-85.29	2,525.0	683.3	747.7	670.8	76.90	9.723		
11,700.0	8,036.0	8,112.3	8,042.1	64.2	19.2	-84.51	2,525.0	683.3	845.0	766.5	78.50	10.764		
11,800.0	8,036.0	8,109.8	8,039.5	65.8	19.1	-83.73	2,525.1	683.3	942.9	862.8	80.09	11.774		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 211-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	2.17	310.4	70.6	310.8						
100.0	100.0	88.4	88.4	0.1	0.1	2.21	310.3	70.8	310.6	310.4	0.27	1,150.135			
200.0	200.0	188.4	188.4	0.3	0.3	2.36	310.3	71.6	310.7	310.0	0.61	510.307			
300.0	300.0	284.9	284.9	0.5	0.5	2.61	310.7	73.0	311.1	310.2	0.95	327.685			
400.0	400.0	376.8	376.7	0.6	0.7	3.00	312.8	75.2	313.5	312.2	1.28	244.161			
500.0	500.0	469.0	468.8	0.8	0.8	-127.50	317.2	78.5	319.6	317.9	1.64	195.100			
600.0	599.8	558.8	558.2	1.0	1.0	-127.36	323.8	82.4	330.3	328.3	1.99	166.093			
700.0	699.5	645.3	644.1	1.2	1.3	-127.39	332.9	87.3	346.4	344.1	2.35	147.187			
800.0	798.7	731.2	728.9	1.5	1.5	-127.51	345.0	93.3	368.2	365.4	2.75	134.046			
832.4	830.7	759.0	756.3	1.6	1.6	-127.56	349.4	95.5	376.3	373.4	2.88	130.712			
900.0	897.6	816.6	812.8	1.8	1.8	-127.90	359.4	100.6	394.4	391.3	3.17	124.483			
1,000.0	996.5	903.2	897.2	2.0	2.2	-128.15	376.3	109.7	423.5	419.8	3.61	117.167			
1,100.0	1,095.3	995.9	987.3	2.3	2.6	-128.26	395.7	120.4	453.9	449.8	4.09	110.983			
1,200.0	1,194.2	1,086.6	1,075.2	2.6	3.0	-128.24	414.7	131.9	484.4	479.8	4.57	105.905			
1,300.0	1,293.0	1,166.1	1,151.8	2.9	3.4	-128.15	433.3	142.5	517.3	512.2	5.04	102.725			
1,400.0	1,391.9	1,250.3	1,232.4	3.2	3.8	-128.12	454.8	153.3	552.3	546.8	5.50	100.339			
1,500.0	1,490.8	1,336.0	1,314.2	3.6	4.3	-128.17	478.4	163.6	589.1	583.1	5.97	98.625			
1,600.0	1,589.6	1,418.8	1,392.9	3.9	4.8	-128.24	502.3	173.3	627.2	620.8	6.44	97.394			
1,700.0	1,688.5	1,517.1	1,486.2	4.2	5.3	-128.22	530.7	185.8	665.5	658.5	6.96	95.601			
1,800.0	1,787.4	1,609.2	1,573.6	4.5	5.8	-128.13	556.8	198.2	703.2	695.7	7.46	94.210			
1,900.0	1,886.2	1,717.5	1,676.8	4.8	6.4	-128.13	586.6	211.8	740.1	732.1	8.00	92.556			
2,000.0	1,985.1	1,820.2	1,775.4	5.1	6.9	-128.27	613.0	223.0	775.2	766.7	8.50	91.145			
2,100.0	2,083.9	1,914.7	1,866.2	5.4	7.4	-128.37	637.2	233.3	810.1	801.1	9.01	89.950			
2,200.0	2,182.8	2,029.5	1,977.0	5.7	8.0	-128.39	663.8	247.3	842.6	833.1	9.57	88.053			
2,300.0	2,281.7	2,109.5	2,054.1	6.1	8.4	-128.39	682.7	257.2	875.8	865.7	10.04	87.217			
2,400.0	2,380.5	2,194.2	2,135.5	6.4	8.8	-128.41	703.9	267.4	910.1	899.6	10.52	86.496			
2,500.0	2,479.4	2,289.2	2,226.6	6.7	9.3	-128.43	728.1	278.8	945.0	934.0	11.03	85.687			
2,600.0	2,578.3	2,403.7	2,336.9	7.0	9.9	-128.48	755.8	292.1	978.7	967.1	11.59	84.467			
8,800.0	8,036.0	8,180.8	8,028.7	22.9	25.3	-90.88	1,371.0	606.6	961.8	921.0	40.81	23.567			
8,900.0	8,036.0	8,181.1	8,028.9	23.7	25.3	-90.93	1,371.0	606.7	866.4	824.5	41.86	20.696			
9,000.0	8,036.0	8,181.4	8,029.2	24.6	25.3	-90.99	1,371.0	606.7	772.2	729.1	43.01	17.951			
9,100.0	8,036.0	8,181.6	8,029.5	25.6	25.3	-91.05	1,371.0	606.7	679.6	635.3	44.25	15.358			
9,200.0	8,036.0	8,181.9	8,029.7	26.7	25.3	-91.10	1,371.0	606.7	589.4	543.9	45.56	12.939			
9,300.0	8,036.0	8,182.2	8,030.0	27.8	25.3	-91.16	1,371.0	606.7	503.0	456.1	46.92	10.721			
9,400.0	8,036.0	8,182.5	8,030.3	29.0	25.3	-91.22	1,371.0	606.7	422.6	374.3	48.33	8.745			
9,500.0	8,036.0	8,182.7	8,030.5	30.3	25.3	-91.27	1,371.0	606.7	352.5	302.7	49.79	7.080			
9,600.0	8,036.0	8,183.0	8,030.8	31.6	25.3	-91.33	1,371.0	606.7	299.7	248.4	51.27	5.845			
9,700.0	8,036.0	8,183.3	8,031.1	32.9	25.3	-91.39	1,371.0	606.7	274.6	221.9	52.79	5.203			
9,722.0	8,036.0	8,183.3	8,031.1	33.2	25.3	-91.40	1,371.0	606.7	273.8	220.6	53.13	5.153 CC, ES, SF			
9,800.0	8,036.0	8,183.5	8,031.4	34.3	25.3	-91.44	1,371.0	606.7	284.7	230.3	54.33	5.239			
9,900.0	8,036.0	8,183.8	8,031.6	35.7	25.3	-91.50	1,371.0	606.7	326.5	270.6	55.89	5.842			
10,000.0	8,036.0	8,184.1	8,031.9	37.2	25.3	-91.56	1,371.0	606.7	390.2	332.7	57.48	6.788			
10,100.0	8,036.0	8,184.3	8,032.2	38.7	25.3	-91.61	1,371.0	606.7	466.7	407.6	59.07	7.901			
10,200.0	8,036.0	8,184.6	8,032.4	40.1	25.3	-91.67	1,371.0	606.7	550.8	490.2	60.68	9.077			
10,300.0	8,036.0	8,184.9	8,032.7	41.7	25.3	-91.72	1,371.0	606.7	639.5	577.2	62.31	10.264			
10,400.0	8,036.0	8,185.1	8,033.0	43.2	25.3	-91.78	1,371.0	606.8	731.2	667.2	63.94	11.435			
10,500.0	8,036.0	8,185.4	8,033.2	44.7	25.3	-91.84	1,371.0	606.8	824.8	759.2	65.58	12.575			
10,600.0	8,036.0	8,185.7	8,033.5	46.3	25.3	-91.89	1,371.0	606.8	919.7	852.4	67.24	13.678			

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - PL														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	22.03	256.1	162.4	277.3						
100.0	100.0	76.5	76.5	0.1	0.1	22.03	256.1	162.4	276.3	276.1	0.26	1,069.552			
200.0	200.0	176.5	176.5	0.3	0.3	22.03	256.1	162.4	276.3	275.7	0.61	454.950			
300.0	300.0	276.5	276.5	0.5	0.5	22.03	256.1	162.4	276.3	275.4	0.96	288.910			
400.0	400.0	376.5	376.5	0.6	0.7	22.03	256.1	162.4	276.3	275.0	1.31	211.661 CC			
500.0	500.0	476.5	476.5	0.8	0.8	-109.22	256.1	162.4	276.9	275.2	1.66	167.159			
600.0	599.8	576.3	576.3	1.0	1.0	-110.20	256.1	162.4	278.7	276.6	2.02	138.111			
700.0	699.5	676.0	676.0	1.2	1.2	-111.80	256.1	162.4	281.8	279.4	2.40	117.464			
800.0	798.7	775.2	775.2	1.5	1.4	-113.96	256.1	162.4	286.6	283.8	2.81	102.050			
832.4	830.7	807.2	807.2	1.6	1.4	-114.77	256.1	162.4	288.5	285.6	2.94	97.980			
900.0	897.6	874.1	874.1	1.8	1.5	-116.56	256.1	162.4	293.0	289.7	3.23	90.630			
1,000.0	996.5	973.0	973.0	2.0	1.7	-119.11	256.1	162.4	300.0	296.4	3.66	81.984			
1,100.0	1,095.3	1,075.4	1,075.4	2.3	1.9	-121.45	255.5	163.3	307.3	303.2	4.09	75.082			
1,200.0	1,194.2	1,179.9	1,179.8	2.6	2.1	-123.15	252.8	167.1	313.4	308.8	4.53	69.105			
1,300.0	1,293.0	1,285.2	1,284.7	2.9	2.3	-124.18	247.9	174.0	317.9	312.9	4.99	63.685			
1,400.0	1,391.9	1,390.8	1,389.6	3.2	2.5	-124.58	240.7	184.2	320.7	315.3	5.48	58.577			
1,500.0	1,490.8	1,496.6	1,494.1	3.6	2.8	-124.37	231.3	197.5	321.8	315.8	6.00	53.645			
1,600.0	1,589.6	1,599.7	1,595.4	3.9	3.1	-123.63	220.1	213.2	321.3	314.7	6.56	48.983			
1,700.0	1,688.5	1,699.6	1,693.4	4.2	3.4	-122.81	208.9	229.0	320.5	313.4	7.13	44.924			
1,800.0	1,787.4	1,799.5	1,791.4	4.5	3.7	-121.99	197.8	244.7	319.8	312.1	7.73	41.379			
1,900.0	1,886.2	1,899.4	1,889.5	4.8	4.0	-121.16	186.6	260.4	319.1	310.8	8.34	38.275			
2,000.0	1,985.1	1,999.3	1,987.5	5.1	4.4	-120.33	175.4	276.2	318.6	309.6	8.96	35.547			
2,100.0	2,083.9	2,099.2	2,085.5	5.4	4.7	-119.50	164.3	291.9	318.1	308.5	9.60	33.139			
2,200.0	2,182.8	2,199.1	2,183.5	5.7	5.1	-118.66	153.1	307.7	317.6	307.4	10.25	31.005			
2,300.0	2,281.7	2,299.0	2,281.5	6.1	5.4	-117.83	141.9	323.4	317.3	306.4	10.90	29.104			
2,400.0	2,380.5	2,398.9	2,379.5	6.4	5.8	-116.99	130.8	339.2	317.0	305.4	11.57	27.405			
2,500.0	2,479.4	2,498.8	2,477.5	6.7	6.1	-116.15	119.6	354.9	316.8	304.5	12.24	25.880			
2,600.0	2,578.3	2,598.6	2,575.5	7.0	6.5	-115.31	108.4	370.7	316.6	303.7	12.92	24.506			
2,700.0	2,677.1	2,698.5	2,673.5	7.3	6.9	-114.47	97.3	386.4	316.5	302.9	13.61	23.263			
2,785.9	2,762.1	2,784.4	2,757.7	7.6	7.2	-113.74	87.7	399.9	316.5	302.3	14.20	22.287			
2,800.0	2,776.0	2,798.4	2,771.5	7.6	7.2	-113.62	86.1	402.1	316.5	302.2	14.30	22.135			
2,900.0	2,874.9	2,898.3	2,869.5	7.9	7.6	-112.78	74.9	417.9	316.5	301.5	14.99	21.109			
3,000.0	2,973.7	2,998.2	2,967.5	8.3	8.0	-111.94	63.8	433.6	316.6	300.9	15.70	20.172			
3,100.0	3,072.6	3,098.1	3,065.6	8.6	8.4	-111.10	52.6	449.4	316.8	300.4	16.40	19.315			
3,200.0	3,171.4	3,198.0	3,163.6	8.9	8.7	-110.26	41.4	465.1	317.1	299.9	17.11	18.528			
3,300.0	3,270.3	3,297.9	3,261.6	9.2	9.1	-109.42	30.3	480.9	317.4	299.6	17.83	17.805			
3,400.0	3,369.2	3,397.8	3,359.6	9.5	9.5	-108.59	19.1	496.6	317.8	299.2	18.54	17.138			
3,500.0	3,468.0	3,497.7	3,457.6	9.8	9.9	-107.75	7.9	512.4	318.2	299.0	19.26	16.523			
3,600.0	3,566.9	3,597.6	3,555.6	10.1	10.2	-106.92	-3.2	528.1	318.7	298.8	19.98	15.954			
3,700.0	3,665.8	3,697.5	3,653.6	10.5	10.6	-106.09	-14.4	543.8	319.3	298.6	20.70	15.426			
3,800.0	3,764.6	3,797.3	3,751.6	10.8	11.0	-105.27	-25.6	559.6	320.0	298.6	21.42	14.936			
3,900.0	3,863.5	3,897.2	3,849.6	11.1	11.4	-104.44	-36.7	575.3	320.7	298.6	22.15	14.481			
4,000.0	3,962.3	3,997.1	3,947.6	11.4	11.7	-103.63	-47.9	591.1	321.5	298.6	22.87	14.058			
4,100.0	4,061.2	4,097.0	4,045.6	11.7	12.1	-102.81	-59.1	606.8	322.3	298.7	23.59	13.663			
4,200.0	4,160.1	4,196.9	4,143.7	12.0	12.5	-102.00	-70.2	622.6	323.2	298.9	24.32	13.294			
4,300.0	4,258.9	4,296.8	4,241.7	12.4	12.9	-101.20	-81.4	638.3	324.2	299.2	25.04	12.949			
4,400.0	4,357.8	4,396.7	4,339.7	12.7	13.3	-100.40	-92.6	654.1	325.3	299.5	25.76	12.627			
4,500.0	4,456.7	4,496.6	4,437.7	13.0	13.6	-99.60	-103.7	669.8	326.4	299.9	26.48	12.326			
4,600.0	4,555.5	4,595.9	4,535.3	13.3	14.0	-99.07	-114.0	684.3	327.6	300.5	27.14	12.070			
4,700.0	4,654.4	4,695.1	4,633.6	13.6	14.2	-99.13	-122.4	696.1	329.1	301.4	27.74	11.866			
4,800.0	4,753.3	4,794.3	4,732.1	13.9	14.5	-99.79	-128.7	705.0	330.8	302.6	28.26	11.709			
4,900.0	4,852.1	4,893.0	4,830.5	14.3	14.7	-101.02	-133.1	711.2	332.9	304.2	28.70	11.601			

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>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - PL													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,000.0	4,951.0	4,991.1	4,928.6	14.6	14.8	-102.80	-135.5	714.5	335.6	306.5	29.05	11.552		
5,100.0	5,049.8	5,088.9	5,026.3	14.9	14.9	-105.08	-136.0	715.2	339.1	309.8	29.32	11.566		
5,200.0	5,148.7	5,187.8	5,125.2	15.2	15.0	-107.47	-136.0	715.2	343.4	313.8	29.55	11.622		
5,300.0	5,247.6	5,286.7	5,224.1	15.5	15.1	-109.81	-136.0	715.2	348.2	318.5	29.74	11.708		
5,400.0	5,346.4	5,385.5	5,322.9	15.8	15.2	-112.08	-136.0	715.2	353.7	323.7	29.91	11.822		
5,500.0	5,445.3	5,484.4	5,421.8	16.1	15.3	-114.28	-136.0	715.2	359.6	329.6	30.06	11.962		
5,600.0	5,544.2	5,583.2	5,520.7	16.5	15.4	-116.41	-136.0	715.2	366.1	335.9	30.20	12.125		
5,700.0	5,643.0	5,682.1	5,619.5	16.8	15.5	-118.46	-136.0	715.2	373.1	342.8	30.31	12.309		
5,800.0	5,741.9	5,781.0	5,718.4	17.1	15.6	-120.43	-136.0	715.2	380.6	350.2	30.42	12.512		
5,900.0	5,840.7	5,879.8	5,817.2	17.4	15.8	-122.33	-136.0	715.2	388.5	358.0	30.51	12.731		
6,000.0	5,939.6	5,978.7	5,916.1	17.7	15.9	-124.15	-136.0	715.2	396.8	366.2	30.60	12.966		
6,100.0	6,038.5	6,077.6	6,015.0	18.0	16.0	-125.89	-136.0	715.2	405.5	374.8	30.69	13.213		
6,200.0	6,137.3	6,176.4	6,113.8	18.4	16.1	-127.56	-136.0	715.2	414.5	383.8	30.77	13.472		
6,300.0	6,236.2	6,275.3	6,212.7	18.7	16.2	-129.16	-136.0	715.2	423.9	393.1	30.86	13.740		
6,400.0	6,335.1	6,374.1	6,311.6	19.0	16.3	-130.69	-136.0	715.2	433.7	402.7	30.94	14.016		
6,500.0	6,433.9	6,473.0	6,410.4	19.3	16.5	-132.16	-136.0	715.2	443.7	412.6	31.03	14.298		
6,600.0	6,532.8	6,571.9	6,509.3	19.6	16.6	-133.56	-136.0	715.2	454.0	422.8	31.12	14.586		
6,700.0	6,631.7	6,670.7	6,608.2	19.9	16.7	-134.89	-136.0	715.2	464.5	433.3	31.22	14.879		
6,800.0	6,730.5	6,769.6	6,707.0	20.3	16.8	-136.17	-136.0	715.2	475.3	444.0	31.32	15.174		
6,900.0	6,829.4	6,868.5	6,805.9	20.6	16.9	-137.39	-136.0	715.2	486.3	454.9	31.43	15.471		
6,981.6	6,910.1	6,949.2	6,886.6	20.8	17.0	-138.35	-136.0	715.2	495.5	463.9	31.53	15.715		
7,000.0	6,928.3	6,967.3	6,904.8	20.9	17.1	-133.70	-136.0	715.2	497.4	465.8	31.56	15.762		
7,100.0	7,027.5	7,066.6	7,004.0	21.1	17.2	-96.77	-136.0	715.2	502.9	471.3	31.59	15.921		
7,200.0	7,126.7	7,165.8	7,103.2	21.2	17.3	-61.06	-136.0	715.2	500.1	468.7	31.40	15.928		
7,300.0	7,225.2	7,264.3	7,201.7	21.3	17.4	-43.85	-136.0	715.2	489.0	458.0	30.98	15.786		
7,400.0	7,322.1	7,361.2	7,298.6	21.3	17.6	-36.61	-136.0	715.2	469.8	439.5	30.33	15.493		
7,500.0	7,416.8	7,455.8	7,393.3	21.2	17.7	-34.00	-136.0	715.2	443.0	413.6	29.46	15.039		
7,600.0	7,508.4	7,547.5	7,484.9	21.1	17.8	-34.19	-136.0	715.2	409.1	380.7	28.40	14.403		
7,700.0	7,596.4	7,635.5	7,572.9	21.0	17.9	-36.67	-136.0	715.2	368.8	341.5	27.24	13.537		
7,800.0	7,680.0	7,712.6	7,650.0	20.8	18.0	-41.11	-136.0	715.2	323.5	297.3	26.20	12.345		
7,900.0	7,758.7	7,712.6	7,650.0	20.7	18.0	-40.92	-136.0	715.2	288.0	262.4	25.65	11.231		
7,986.9	7,822.5	7,712.6	7,650.0	20.6	18.0	-40.41	-136.0	715.2	277.4	252.2	25.21	11.007 ES, SF		
7,989.6	7,824.4	7,712.6	7,650.0	20.6	18.0	-40.39	-136.0	715.2	277.5	252.3	25.19	11.013		
8,000.0	7,831.7	7,712.6	7,650.0	20.6	18.0	-40.26	-136.0	715.2	277.7	252.6	25.08	11.073		
8,050.0	7,865.3	7,712.6	7,650.0	20.6	18.0	-39.53	-136.0	715.2	282.3	257.8	24.52	11.513		
8,100.0	7,896.2	7,712.6	7,650.0	20.5	18.0	-38.66	-136.0	715.2	292.6	268.6	23.95	12.215		
8,150.0	7,924.4	7,712.6	7,650.0	20.5	18.0	-37.64	-136.0	715.2	307.9	284.5	23.37	13.173		
8,200.0	7,949.6	7,712.6	7,650.0	20.5	18.0	-36.49	-136.0	715.2	327.6	304.8	22.79	14.373		
8,250.0	7,971.8	7,712.6	7,650.0	20.6	18.0	-35.24	-136.0	715.2	350.7	328.5	22.21	15.792		
8,300.0	7,990.8	7,712.6	7,650.0	20.6	18.0	-33.92	-136.0	715.2	376.5	354.9	21.64	17.403		
8,350.0	8,006.6	7,712.6	7,650.0	20.7	18.0	-32.56	-136.0	715.2	404.5	383.4	21.10	19.167		
8,400.0	8,019.1	7,712.6	7,650.0	20.8	18.0	-31.19	-136.0	715.2	434.0	413.4	20.64	21.032		
8,450.0	8,028.1	7,712.6	7,650.0	21.0	18.0	-29.83	-136.0	715.2	464.7	444.4	20.26	22.932		
8,500.0	8,033.7	7,712.6	7,650.0	21.1	18.0	-28.52	-136.0	715.2	496.2	476.2	20.02	24.785		
8,550.0	8,035.9	7,712.6	7,650.0	21.3	18.0	-27.28	-136.0	715.2	528.2	508.2	19.93	26.503		
8,556.4	8,036.0	7,712.6	7,650.0	21.4	18.0	-27.12	-136.0	715.2	532.2	512.3	19.93	26.707		
8,600.0	8,036.0	7,712.6	7,650.0	21.6	18.0	-27.12	-136.0	715.2	561.3	541.2	20.11	27.919		
8,700.0	8,036.0	7,712.6	7,650.0	22.2	18.0	-27.12	-136.0	715.2	634.3	613.8	20.54	30.875		
8,800.0	8,036.0	7,712.6	7,650.0	22.9	18.0	-27.12	-136.0	715.2	713.9	692.9	21.02	33.955		
8,900.0	8,036.0	7,712.6	7,650.0	23.7	18.0	-27.12	-136.0	715.2	798.1	776.5	21.54	37.049		
9,000.0	8,036.0	7,712.6	7,650.0	24.6	18.0	-27.12	-136.0	715.2	885.5	863.4	22.09	40.089		
9,100.0	8,036.0	7,712.6	7,650.0	25.6	18.0	-27.12	-136.0	715.2	975.4	952.8	22.67	43.036		

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>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM H PELTIER 1 (EXISTING) - VESSELS WELL - N											Offset Site Error:		0.0 ft	
Survey Program: 8517-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		
16,400.0	8,036.0	8,017.5	8,017.5	144.7	14.0	-90.00	8,628.6	17.9	963.1	805.1	157.93	6.098		
16,500.0	8,036.0	8,017.5	8,017.5	146.4	14.0	-90.00	8,628.6	17.9	905.6	745.9	159.68	5.671		
16,600.0	8,036.0	8,017.5	8,017.5	148.2	14.0	-90.00	8,628.6	17.9	856.0	694.6	161.42	5.303		
16,700.0	8,036.0	8,017.5	8,017.5	149.9	14.0	-90.00	8,628.6	17.9	815.7	652.5	163.17	4.999		
16,800.0	8,036.0	8,017.5	8,017.5	151.6	14.0	-90.00	8,628.6	17.9	786.1	621.2	164.92	4.767		
16,900.0	8,036.0	8,017.5	8,017.5	153.4	14.0	-90.00	8,628.6	17.9	768.5	601.8	166.66	4.611		
16,986.9	8,036.0	8,017.5	8,017.5	154.9	14.0	-90.00	8,628.6	17.9	763.5	595.4	168.18	4.540 CC		
17,000.0	8,036.0	8,017.5	8,017.5	155.1	14.0	-90.00	8,628.6	17.9	763.6	595.2	168.41	4.534 ES, SF		
17,100.0	8,036.0	8,017.5	8,017.5	156.9	14.0	-90.00	8,628.6	17.9	771.9	601.7	170.15	4.536		
17,200.0	8,036.0	8,017.5	8,017.5	158.6	14.0	-90.00	8,628.6	17.9	792.7	620.8	171.90	4.611		
17,300.0	8,036.0	8,017.5	8,017.5	160.3	14.0	-90.00	8,628.6	17.9	825.2	651.6	173.65	4.752		
17,400.0	8,036.0	8,017.5	8,017.5	162.1	14.0	-90.00	8,628.6	17.9	868.1	692.7	175.40	4.949		
17,500.0	8,036.0	8,017.5	8,017.5	163.8	14.0	-90.00	8,628.6	17.9	919.9	742.8	177.14	5.193		
17,600.0	8,036.0	8,017.5	8,017.5	165.6	14.0	-90.00	8,628.6	17.9	979.2	800.3	178.89	5.474		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WELL													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		
16,500.0	8,036.0	8,066.7	7,696.3	146.4	15.7	-26.30	9,051.3	622.4	965.5	886.4	79.09	12.207		
16,600.0	8,036.0	8,053.4	7,694.6	148.2	15.6	-24.21	9,053.1	635.5	872.7	797.4	75.31	11.589		
16,700.0	8,036.0	8,040.8	7,693.0	149.9	15.4	-22.18	9,054.8	647.8	781.6	710.1	71.55	10.925		
16,800.0	8,036.0	8,028.9	7,691.3	151.6	15.3	-20.22	9,056.3	659.6	692.8	624.9	67.85	10.211		
16,900.0	8,036.0	8,018.3	7,689.8	153.4	15.2	-18.45	9,057.7	670.0	607.1	542.6	64.51	9.411		
17,000.0	8,036.0	8,012.0	7,688.9	155.1	15.1	-17.40	9,058.5	676.1	526.4	463.7	62.74	8.390		
17,100.0	8,036.0	8,001.2	7,687.2	156.9	15.0	-15.56	9,059.9	686.7	453.2	394.0	59.20	7.654		
17,200.0	8,036.0	7,992.8	7,685.8	158.6	15.0	-14.13	9,061.0	694.9	391.7	335.2	56.56	6.926		
17,300.0	8,036.0	7,980.0	7,683.6	160.3	14.9	-11.92	9,062.7	707.4	348.4	296.0	52.33	6.657		
17,400.0	8,036.0	7,975.3	7,682.7	162.1	14.8	-11.11	9,063.3	712.0	330.2	279.1	51.07	6.466 ES, SF		
17,412.3	8,036.0	7,974.2	7,682.5	162.3	14.8	-10.92	9,063.4	713.1	330.0	279.2	50.73	6.505 CC		
17,500.0	8,036.0	7,966.2	7,681.0	163.8	14.8	-9.54	9,064.5	720.8	341.3	293.0	48.35	7.059		
17,600.0	8,036.0	7,957.0	7,679.1	165.6	14.7	-7.96	9,065.8	729.8	379.1	333.3	45.80	8.278		
17,700.0	8,036.0	7,949.0	7,677.5	167.3	14.6	-6.59	9,066.8	737.5	436.8	392.9	43.84	9.962		
17,800.0	8,036.0	7,938.1	7,675.0	169.0	14.6	-4.73	9,068.4	748.1	507.5	466.0	41.52	12.224		
17,826.5	8,036.0	7,935.4	7,674.4	169.5	14.5	-4.28	9,068.8	750.7	527.8	486.7	41.04	12.859		
17,827.1	8,036.0	7,935.3	7,674.4	169.5	14.5	-4.27	9,068.8	750.8	528.2	487.2	41.03	12.873		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Site S29-T1N-R68W (Pratt/Waste Connections)
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patterson 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4G-29H-P168	<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 #3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 28.5' KB @ 5204.5ft (Patterson 272)

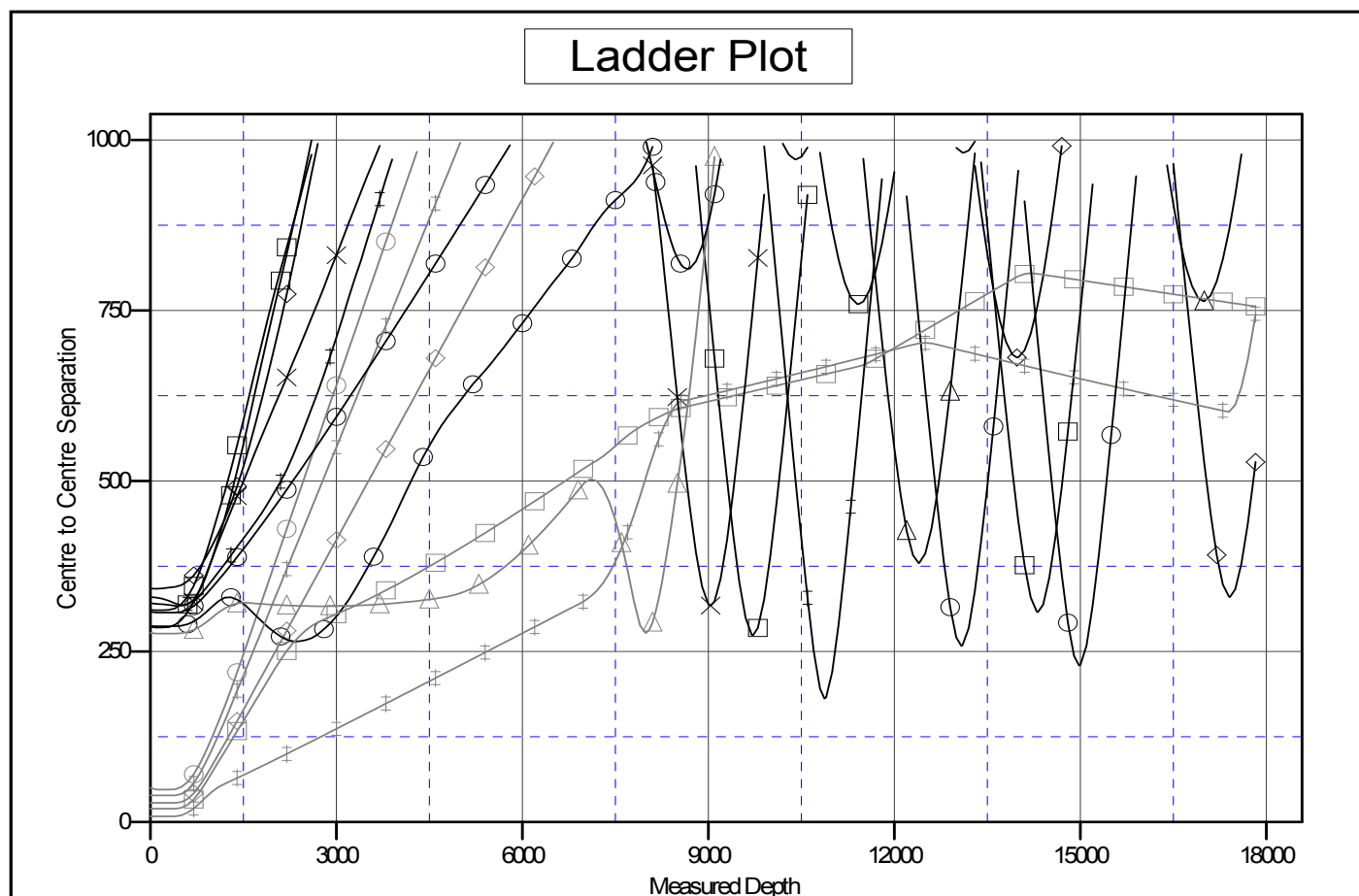
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: S29-T1N-R68W (Pratt/Waste Connections)

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



### LEGEND

ENCANA WELL, SURVEYS V0	Pratt4C-29H-P168, Hz, Plan #4 Ext V0	SRC PRATT 43-29D (EXISTING), S
V0	SRC PRATT 33-29PD (EXISTING), SYNERGY WELL, SURVEYS V0	Pratt4F-29H-P168, Hz, Plan #2 V0
VESSLS WELL, NO SURVEYS V0	ME DRIER 1 (EXISTING), SYNERGY WELL, GYROV0	Pratt4E-29H-P168, Hz, Plan #4 Ext
V0	COSTIGAN 8-8-20 (EXISTING), ENCANA WELL, SURVEYS V0	COSTIGAN 43-20 (EXISTING), ENC
SYNERGY WELL, SURVEYS V0	SRC PRATT 41-29D (EXISTING), SYNERGY WELL, SURVEYS V0	SRC PRATT 42-29D (EXISTING), S
ISTING), ENCANA WELL, SURVEYS V0	EDWARD P COSTIGAN 1 (EXISTING), ENCANA WELL, SURVEYS V0	SRC PRATT 29XD (EXISTING), SY
ENCANA WELL, SURVEYS V0	SRC PRATT 34-29D (EXISTING), SYNERGY WELL, SURVEYS V0	SRC PRATT 44-29D (EXISTING), S
SYNERGY WELL, SURVEYS V0	SRC PRATT 29SD (EXISTING), SYNERGY WELL, SURVEYS V0	PRATT 29-3 (EXISTING), SYNERG

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