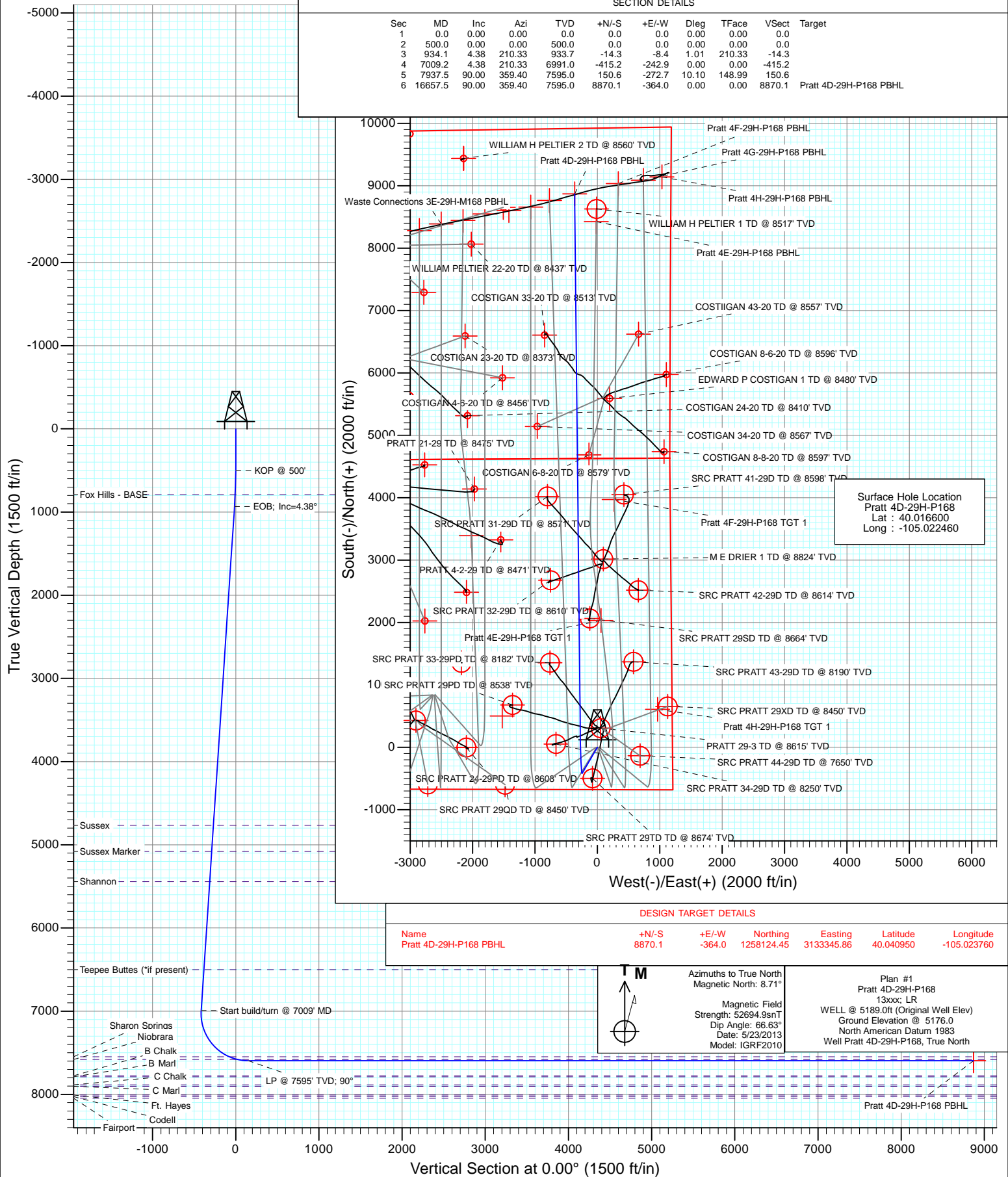




Project: DJ Wattenberg  
Site: S29-T1N-R68W (Pratt/Waste Connections)  
Well: Pratt 4D-29H-P168  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		S29-T1N-R68W (Pratt/Waste Connections)			
Site Position:		Northing:	1,249,256.24 ft	Latitude:	40.016600
From:	Lat/Long	Easting:	3,133,726.79 ft	Longitude:	-105.022570
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well	Pratt 4D-29H-P168					
Well Position	+N/-S	0.0 ft	Northing:	1,249,256.40 ft	Latitude:	40.016600
	+E/-W	0.0 ft	Easting:	3,133,757.60 ft	Longitude:	-105.022460
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	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	5/23/2013	8.71	66.63	52,695

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	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	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
934.1	4.38	210.33	933.7	-14.3	-8.4	1.01	1.01	0.00	210.33	
7,009.2	4.38	210.33	6,991.0	-415.2	-242.9	0.00	0.00	0.00	0.00	
7,937.5	90.00	359.40	7,595.0	150.6	-272.7	10.10	9.22	16.06	148.99	
16,657.5	90.00	359.40	7,595.0	8,870.1	-364.0	0.00	0.00	0.00	0.00	Pratt 4D-29H-P168 PI

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.01	210.33	600.0	-0.8	-0.4	-0.8	1.01	1.01	
700.0	2.02	210.33	700.0	-3.0	-1.8	-3.0	1.01	1.01	
789.1	2.92	210.33	789.0	-6.4	-3.7	-6.4	1.01	1.01	Fox Hills - BASE
800.0	3.03	210.33	799.9	-6.8	-4.0	-6.8	1.01	1.01	
900.0	4.04	210.33	899.7	-12.2	-7.1	-12.2	1.01	1.01	
934.1	4.38	210.33	933.7	-14.3	-8.4	-14.3	1.01	1.01	EOB; Inc=4.38°
1,000.0	4.38	210.33	999.4	-18.7	-10.9	-18.7	0.00	0.00	
1,100.0	4.38	210.33	1,099.1	-25.3	-14.8	-25.3	0.00	0.00	
1,200.0	4.38	210.33	1,198.8	-31.9	-18.7	-31.9	0.00	0.00	
1,300.0	4.38	210.33	1,298.5	-38.5	-22.5	-38.5	0.00	0.00	
1,400.0	4.38	210.33	1,398.2	-45.1	-26.4	-45.1	0.00	0.00	
1,500.0	4.38	210.33	1,497.9	-51.7	-30.2	-51.7	0.00	0.00	
1,600.0	4.38	210.33	1,597.6	-58.3	-34.1	-58.3	0.00	0.00	
1,700.0	4.38	210.33	1,697.3	-64.9	-38.0	-64.9	0.00	0.00	
1,800.0	4.38	210.33	1,797.0	-71.5	-41.8	-71.5	0.00	0.00	
1,900.0	4.38	210.33	1,896.7	-78.1	-45.7	-78.1	0.00	0.00	
2,000.0	4.38	210.33	1,996.5	-84.7	-49.5	-84.7	0.00	0.00	
2,100.0	4.38	210.33	2,096.2	-91.3	-53.4	-91.3	0.00	0.00	
2,200.0	4.38	210.33	2,195.9	-97.9	-57.3	-97.9	0.00	0.00	
2,300.0	4.38	210.33	2,295.6	-104.4	-61.1	-104.4	0.00	0.00	
2,400.0	4.38	210.33	2,395.3	-111.0	-65.0	-111.0	0.00	0.00	
2,500.0	4.38	210.33	2,495.0	-117.6	-68.8	-117.6	0.00	0.00	
2,600.0	4.38	210.33	2,594.7	-124.2	-72.7	-124.2	0.00	0.00	
2,700.0	4.38	210.33	2,694.4	-130.8	-76.6	-130.8	0.00	0.00	
2,800.0	4.38	210.33	2,794.1	-137.4	-80.4	-137.4	0.00	0.00	
2,900.0	4.38	210.33	2,893.8	-144.0	-84.3	-144.0	0.00	0.00	
3,000.0	4.38	210.33	2,993.5	-150.6	-88.1	-150.6	0.00	0.00	
3,100.0	4.38	210.33	3,093.2	-157.2	-92.0	-157.2	0.00	0.00	
3,200.0	4.38	210.33	3,192.9	-163.8	-95.9	-163.8	0.00	0.00	
3,300.0	4.38	210.33	3,292.7	-170.4	-99.7	-170.4	0.00	0.00	
3,400.0	4.38	210.33	3,392.4	-177.0	-103.6	-177.0	0.00	0.00	
3,500.0	4.38	210.33	3,492.1	-183.6	-107.5	-183.6	0.00	0.00	
3,600.0	4.38	210.33	3,591.8	-190.2	-111.3	-190.2	0.00	0.00	
3,700.0	4.38	210.33	3,691.5	-196.8	-115.2	-196.8	0.00	0.00	
3,800.0	4.38	210.33	3,791.2	-203.4	-119.0	-203.4	0.00	0.00	
3,900.0	4.38	210.33	3,890.9	-210.0	-122.9	-210.0	0.00	0.00	
4,000.0	4.38	210.33	3,990.6	-216.6	-126.8	-216.6	0.00	0.00	
4,100.0	4.38	210.33	4,090.3	-223.2	-130.6	-223.2	0.00	0.00	
4,200.0	4.38	210.33	4,190.0	-229.8	-134.5	-229.8	0.00	0.00	
4,300.0	4.38	210.33	4,289.7	-236.4	-138.3	-236.4	0.00	0.00	
4,400.0	4.38	210.33	4,389.4	-243.0	-142.2	-243.0	0.00	0.00	
4,500.0	4.38	210.33	4,489.1	-249.6	-146.1	-249.6	0.00	0.00	
4,600.0	4.38	210.33	4,588.8	-256.2	-149.9	-256.2	0.00	0.00	
4,700.0	4.38	210.33	4,688.6	-262.8	-153.8	-262.8	0.00	0.00	
4,777.7	4.38	210.33	4,766.0	-267.9	-156.8	-267.9	0.00	0.00	Sussex
4,800.0	4.38	210.33	4,788.3	-269.4	-157.6	-269.4	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	4.38	210.33	4,888.0	-276.0	-161.5	-276.0	0.00	0.00	
5,000.0	4.38	210.33	4,987.7	-282.6	-165.4	-282.6	0.00	0.00	
5,091.6	4.38	210.33	5,079.0	-288.6	-168.9	-288.6	0.00	0.00	Sussex Marker
5,100.0	4.38	210.33	5,087.4	-289.2	-169.2	-289.2	0.00	0.00	
5,200.0	4.38	210.33	5,187.1	-295.8	-173.1	-295.8	0.00	0.00	
5,300.0	4.38	210.33	5,286.8	-302.4	-176.9	-302.4	0.00	0.00	
5,400.0	4.38	210.33	5,386.5	-309.0	-180.8	-309.0	0.00	0.00	
5,456.7	4.38	210.33	5,443.0	-312.7	-183.0	-312.7	0.00	0.00	Shannon
5,500.0	4.38	210.33	5,486.2	-315.6	-184.7	-315.6	0.00	0.00	
5,600.0	4.38	210.33	5,585.9	-322.2	-188.5	-322.2	0.00	0.00	
5,700.0	4.38	210.33	5,685.6	-328.8	-192.4	-328.8	0.00	0.00	
5,800.0	4.38	210.33	5,785.3	-335.4	-196.3	-335.4	0.00	0.00	
5,900.0	4.38	210.33	5,885.0	-342.0	-200.1	-342.0	0.00	0.00	
6,000.0	4.38	210.33	5,984.8	-348.6	-204.0	-348.6	0.00	0.00	
6,100.0	4.38	210.33	6,084.5	-355.2	-207.8	-355.2	0.00	0.00	
6,200.0	4.38	210.33	6,184.2	-361.8	-211.7	-361.8	0.00	0.00	
6,300.0	4.38	210.33	6,283.9	-368.4	-215.6	-368.4	0.00	0.00	
6,400.0	4.38	210.33	6,383.6	-375.0	-219.4	-375.0	0.00	0.00	
6,500.0	4.38	210.33	6,483.3	-381.6	-223.3	-381.6	0.00	0.00	
6,516.8	4.38	210.33	6,500.0	-382.7	-223.9	-382.7	0.00	0.00	Teepee Buttes (*if present)
6,600.0	4.38	210.33	6,583.0	-388.2	-227.1	-388.2	0.00	0.00	
6,700.0	4.38	210.33	6,682.7	-394.8	-231.0	-394.8	0.00	0.00	
6,800.0	4.38	210.33	6,782.4	-401.4	-234.9	-401.4	0.00	0.00	
6,900.0	4.38	210.33	6,882.1	-408.0	-238.7	-408.0	0.00	0.00	
7,000.0	4.38	210.33	6,981.8	-414.6	-242.6	-414.6	0.00	0.00	
7,009.2	4.38	210.33	6,991.0	-415.2	-242.9	-415.2	0.00	0.00	Start build/turn @ 7009' MD
7,100.0	5.86	336.83	7,081.6	-413.9	-246.5	-413.9	10.10	1.63	
7,200.0	15.67	351.32	7,179.8	-395.8	-250.6	-395.8	10.10	9.81	
7,300.0	25.70	354.70	7,273.2	-360.8	-254.6	-360.8	10.10	10.03	
7,400.0	35.77	356.26	7,359.0	-309.9	-258.5	-309.9	10.10	10.07	
7,500.0	45.86	357.21	7,434.6	-244.7	-262.2	-244.7	10.10	10.08	
7,600.0	55.94	357.87	7,497.6	-167.3	-265.5	-167.3	10.10	10.09	
7,700.0	66.03	358.40	7,546.0	-80.0	-268.3	-80.0	10.10	10.09	
7,702.4	66.27	358.41	7,547.0	-77.8	-268.4	-77.8	10.10	10.09	Sharon Springs
7,800.0	76.12	358.84	7,578.4	14.5	-270.6	14.5	10.10	10.09	
7,806.7	76.80	358.87	7,580.0	21.0	-270.7	21.0	10.10	10.09	Niobrara
7,900.0	86.22	359.25	7,593.8	113.2	-272.2	113.2	10.10	10.09	
7,937.5	90.00	359.40	7,595.0	150.6	-272.7	150.6	10.10	10.09	LP @ 7595' TVD; 90°
8,000.0	90.00	359.40	7,595.0	213.1	-273.3	213.1	0.00	0.00	
8,100.0	90.00	359.40	7,595.0	313.1	-274.4	313.1	0.00	0.00	
8,200.0	90.00	359.40	7,595.0	413.1	-275.4	413.1	0.00	0.00	
8,300.0	90.00	359.40	7,595.0	513.1	-276.5	513.1	0.00	0.00	
8,400.0	90.00	359.40	7,595.0	613.1	-277.5	613.1	0.00	0.00	
8,500.0	90.00	359.40	7,595.0	713.1	-278.6	713.1	0.00	0.00	
8,600.0	90.00	359.40	7,595.0	813.1	-279.6	813.1	0.00	0.00	
8,700.0	90.00	359.40	7,595.0	913.1	-280.7	913.1	0.00	0.00	
8,800.0	90.00	359.40	7,595.0	1,013.1	-281.7	1,013.1	0.00	0.00	
8,900.0	90.00	359.40	7,595.0	1,113.1	-282.7	1,113.1	0.00	0.00	
9,000.0	90.00	359.40	7,595.0	1,213.1	-283.8	1,213.1	0.00	0.00	
9,100.0	90.00	359.40	7,595.0	1,313.1	-284.8	1,313.1	0.00	0.00	
9,200.0	90.00	359.40	7,595.0	1,413.1	-285.9	1,413.1	0.00	0.00	
9,300.0	90.00	359.40	7,595.0	1,513.0	-286.9	1,513.0	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,400.0	90.00	359.40	7,595.0	1,613.0	-288.0	1,613.0	0.00	0.00	
9,500.0	90.00	359.40	7,595.0	1,713.0	-289.0	1,713.0	0.00	0.00	
9,600.0	90.00	359.40	7,595.0	1,813.0	-290.1	1,813.0	0.00	0.00	
9,700.0	90.00	359.40	7,595.0	1,913.0	-291.1	1,913.0	0.00	0.00	
9,800.0	90.00	359.40	7,595.0	2,013.0	-292.2	2,013.0	0.00	0.00	
9,900.0	90.00	359.40	7,595.0	2,113.0	-293.2	2,113.0	0.00	0.00	
10,000.0	90.00	359.40	7,595.0	2,213.0	-294.3	2,213.0	0.00	0.00	
10,100.0	90.00	359.40	7,595.0	2,313.0	-295.3	2,313.0	0.00	0.00	
10,200.0	90.00	359.40	7,595.0	2,413.0	-296.4	2,413.0	0.00	0.00	
10,300.0	90.00	359.40	7,595.0	2,513.0	-297.4	2,513.0	0.00	0.00	
10,400.0	90.00	359.40	7,595.0	2,613.0	-298.5	2,613.0	0.00	0.00	
10,500.0	90.00	359.40	7,595.0	2,713.0	-299.5	2,713.0	0.00	0.00	
10,600.0	90.00	359.40	7,595.0	2,813.0	-300.5	2,813.0	0.00	0.00	
10,700.0	90.00	359.40	7,595.0	2,913.0	-301.6	2,913.0	0.00	0.00	
10,800.0	90.00	359.40	7,595.0	3,013.0	-302.6	3,013.0	0.00	0.00	
10,900.0	90.00	359.40	7,595.0	3,113.0	-303.7	3,113.0	0.00	0.00	
11,000.0	90.00	359.40	7,595.0	3,213.0	-304.7	3,213.0	0.00	0.00	
11,100.0	90.00	359.40	7,595.0	3,312.9	-305.8	3,312.9	0.00	0.00	
11,200.0	90.00	359.40	7,595.0	3,412.9	-306.8	3,412.9	0.00	0.00	
11,300.0	90.00	359.40	7,595.0	3,512.9	-307.9	3,512.9	0.00	0.00	
11,400.0	90.00	359.40	7,595.0	3,612.9	-308.9	3,612.9	0.00	0.00	
11,500.0	90.00	359.40	7,595.0	3,712.9	-310.0	3,712.9	0.00	0.00	
11,600.0	90.00	359.40	7,595.0	3,812.9	-311.0	3,812.9	0.00	0.00	
11,700.0	90.00	359.40	7,595.0	3,912.9	-312.1	3,912.9	0.00	0.00	
11,800.0	90.00	359.40	7,595.0	4,012.9	-313.1	4,012.9	0.00	0.00	
11,900.0	90.00	359.40	7,595.0	4,112.9	-314.2	4,112.9	0.00	0.00	
12,000.0	90.00	359.40	7,595.0	4,212.9	-315.2	4,212.9	0.00	0.00	
12,100.0	90.00	359.40	7,595.0	4,312.9	-316.3	4,312.9	0.00	0.00	
12,200.0	90.00	359.40	7,595.0	4,412.9	-317.3	4,412.9	0.00	0.00	
12,300.0	90.00	359.40	7,595.0	4,512.9	-318.4	4,512.9	0.00	0.00	
12,400.0	90.00	359.40	7,595.0	4,612.9	-319.4	4,612.9	0.00	0.00	
12,500.0	90.00	359.40	7,595.0	4,712.9	-320.4	4,712.9	0.00	0.00	
12,600.0	90.00	359.40	7,595.0	4,812.9	-321.5	4,812.9	0.00	0.00	
12,700.0	90.00	359.40	7,595.0	4,912.9	-322.5	4,912.9	0.00	0.00	
12,800.0	90.00	359.40	7,595.0	5,012.9	-323.6	5,012.9	0.00	0.00	
12,900.0	90.00	359.40	7,595.0	5,112.9	-324.6	5,112.9	0.00	0.00	
13,000.0	90.00	359.40	7,595.0	5,212.8	-325.7	5,212.8	0.00	0.00	
13,100.0	90.00	359.40	7,595.0	5,312.8	-326.7	5,312.8	0.00	0.00	
13,200.0	90.00	359.40	7,595.0	5,412.8	-327.8	5,412.8	0.00	0.00	
13,300.0	90.00	359.40	7,595.0	5,512.8	-328.8	5,512.8	0.00	0.00	
13,400.0	90.00	359.40	7,595.0	5,612.8	-329.9	5,612.8	0.00	0.00	
13,500.0	90.00	359.40	7,595.0	5,712.8	-330.9	5,712.8	0.00	0.00	
13,600.0	90.00	359.40	7,595.0	5,812.8	-332.0	5,812.8	0.00	0.00	
13,700.0	90.00	359.40	7,595.0	5,912.8	-333.0	5,912.8	0.00	0.00	
13,800.0	90.00	359.40	7,595.0	6,012.8	-334.1	6,012.8	0.00	0.00	
13,900.0	90.00	359.40	7,595.0	6,112.8	-335.1	6,112.8	0.00	0.00	
14,000.0	90.00	359.40	7,595.0	6,212.8	-336.2	6,212.8	0.00	0.00	
14,100.0	90.00	359.40	7,595.0	6,312.8	-337.2	6,312.8	0.00	0.00	
14,200.0	90.00	359.40	7,595.0	6,412.8	-338.2	6,412.8	0.00	0.00	
14,300.0	90.00	359.40	7,595.0	6,512.8	-339.3	6,512.8	0.00	0.00	
14,400.0	90.00	359.40	7,595.0	6,612.8	-340.3	6,612.8	0.00	0.00	
14,500.0	90.00	359.40	7,595.0	6,712.8	-341.4	6,712.8	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,600.0	90.00	359.40	7,595.0	6,812.8	-342.4	6,812.8	0.00	0.00	
14,700.0	90.00	359.40	7,595.0	6,912.8	-343.5	6,912.8	0.00	0.00	
14,800.0	90.00	359.40	7,595.0	7,012.7	-344.5	7,012.7	0.00	0.00	
14,900.0	90.00	359.40	7,595.0	7,112.7	-345.6	7,112.7	0.00	0.00	
15,000.0	90.00	359.40	7,595.0	7,212.7	-346.6	7,212.7	0.00	0.00	
15,100.0	90.00	359.40	7,595.0	7,312.7	-347.7	7,312.7	0.00	0.00	
15,200.0	90.00	359.40	7,595.0	7,412.7	-348.7	7,412.7	0.00	0.00	
15,300.0	90.00	359.40	7,595.0	7,512.7	-349.8	7,512.7	0.00	0.00	
15,400.0	90.00	359.40	7,595.0	7,612.7	-350.8	7,612.7	0.00	0.00	
15,500.0	90.00	359.40	7,595.0	7,712.7	-351.9	7,712.7	0.00	0.00	
15,600.0	90.00	359.40	7,595.0	7,812.7	-352.9	7,812.7	0.00	0.00	
15,700.0	90.00	359.40	7,595.0	7,912.7	-354.0	7,912.7	0.00	0.00	
15,800.0	90.00	359.40	7,595.0	8,012.7	-355.0	8,012.7	0.00	0.00	
15,900.0	90.00	359.40	7,595.0	8,112.7	-356.0	8,112.7	0.00	0.00	
16,000.0	90.00	359.40	7,595.0	8,212.7	-357.1	8,212.7	0.00	0.00	
16,100.0	90.00	359.40	7,595.0	8,312.7	-358.1	8,312.7	0.00	0.00	
16,200.0	90.00	359.40	7,595.0	8,412.7	-359.2	8,412.7	0.00	0.00	
16,300.0	90.00	359.40	7,595.0	8,512.7	-360.2	8,512.7	0.00	0.00	
16,400.0	90.00	359.40	7,595.0	8,612.7	-361.3	8,612.7	0.00	0.00	
16,500.0	90.00	359.40	7,595.0	8,712.7	-362.3	8,712.7	0.00	0.00	
16,600.0	90.00	359.40	7,595.0	8,812.6	-363.4	8,812.6	0.00	0.00	
16,657.5	90.00	359.40	7,595.0	8,870.1	-364.0	8,870.1	0.00	0.00	TD at 16657.5 - Pratt 4D-29H-P168 PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Pratt 4D-29H-P168 PBH	0.00	0.00	7,595.0	8,870.1	-364.0	1,258,124.45	3,133,345.86	40.040950	-105.023760
- plan hits target center									
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
789.1	789.0	Fox Hills - BASE				
4,777.7	4,766.0	Sussex				
5,091.6	5,079.0	Sussex Marker				
5,456.7	5,443.0	Shannon				
6,516.8	6,500.0	Teepee Buttes (*if present)				
7,702.4	7,547.0	Sharon Springs				
7,806.7	7,580.0	Niobrara				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 4D-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
934.1	933.7	-14.3	-8.4	EOB; Inc=4.38°
7,009.2	6,991.0	-415.2	-242.9	Start build/turn @ 7009' MD
7,937.5	7,595.0	150.6	-272.7	LP @ 7595' TVD; 90°
16,657.5	7,595.0	8,870.1	-364.0	TD at 16657.5

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

**DJ Wattenberg**

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

**Pratt 4D-29H-P168**

**Hz**

**Plan #1**

## **Anticollision Report**

**31 May, 2013**



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	5/31/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	16,656.9	Plan #1 (Hz)	MWD	Geolink MWD	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
COSTIGAN 0-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 0-8-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 13-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 14-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 23-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 24-20 (EXISTING) - ENCANA WELL - ENCA						Out of range
COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCA	14,410.7	7,817.8	497.4	355.7	3.509	CC, ES, SF
COSTIGAN 34-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 43-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 4-6-20 (EXISTING) - ENCANA WELL - PLAN						Out of range
COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - PLAN	12,471.3	7,692.1	184.4	78.8	1.746	CC, ES, SF
COSTIGAN 8-6-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN 8-8-20 (EXISTING) - ENCANA WELL - SUR						Out of range
COSTIGAN E UNIT 1 (EXISTING) - ENCANA WELL - NO						Out of range
COSTIGAN H UNIT 1 (EXISTING) - VESSELS WELL - N						Out of range
EDWARD P COSTIGAN 1 (EXISTING) - ENCANA WELL						Out of range
M E DRIER 1 (EXISTING) - SYNERGY WELL - NO SUR	10,799.1	7,614.0	397.9	328.3	5.720	CC
M E DRIER 1 (EXISTING) - SYNERGY WELL - NO SUR	10,800.0	7,614.0	397.9	328.3	5.719	ES, 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	500.0	488.0	310.6	308.9	182.506	CC
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	8,089.5	7,583.0	327.5	299.0	11.509	ES
PRATT 29-3 (EXISTING) - SYNERGY WELL - NO SURV	8,100.0	7,583.0	327.7	299.1	11.483	SF
PRATT 4-2-29 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1	300.0	300.0	19.6	18.6	19.570	CC, ES
Pratt 4B-29H-P168 - Hz - Plan #1	800.0	797.8	34.0	31.2	12.300	SF
Pratt 4C-29H-P168 - Hz - Plan #1	400.0	400.0	11.2	9.9	8.293	CC, ES
Pratt 4C-29H-P168 - Hz - Plan #1	1,000.0	998.9	18.5	15.0	5.283	SF
Pratt 4E-29H-P168 - Hz - Plan #1	500.0	500.0	8.4	6.7	4.943	CC, ES
Pratt 4E-29H-P168 - Hz - Plan #1	600.0	600.0	8.9	6.8	4.333	SF
Pratt 4F-29H-P168 - Hz - Plan #1	500.0	500.0	19.6	17.9	11.533	CC, ES
Pratt 4F-29H-P168 - Hz - Plan #1	700.0	699.6	23.3	20.9	9.684	SF
Pratt 4G-29H-P168 - Hz - Plan #1	400.0	400.0	28.0	26.7	20.734	CC, ES
Pratt 4G-29H-P168 - Hz - Plan #1	700.0	698.6	35.9	33.5	14.936	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	642.6	656.0	309.9	307.3	123.248	CC, ES
SRC PRATT 29PD (EXISTING) - SYNERGY WELL - SU	1,700.0	1,626.5	495.7	487.2	58.866	SF
SRC PRATT 29QD (EXISTING) - SYNERGY WELL - PL						Out of range
SRC PRATT 29SD (EXISTING) - SYNERGY WELL - SU	9,829.6	7,740.8	150.0	89.1	2.465	CC, ES, SF
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	3,095.0	3,149.0	99.7	83.8	6.253	CC
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	3,100.0	3,153.9	99.7	83.7	6.236	ES
SRC PRATT 29TD (EXISTING) - SYNERGY WELL - SU	7,062.7	7,157.8	185.9	152.9	5.645	SF

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA	200.0	190.0	293.0	292.4	445.366	CC, ES
SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLA	1,400.0	1,309.8	491.5	486.2	92.399	SF
SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - S	11,806.4	7,821.9	489.1	392.5	5.065	CC, ES, SF
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S	10,444.4	7,744.1	476.7	412.1	7.379	CC, ES
SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - S	10,500.0	7,744.3	479.9	414.4	7.322	SF
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	0.0	3.0	340.1			
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	100.0	102.5	340.1	339.8	1,088.510	ES
SRC PRATT 33-29PD (EXISTING) - SYNERGY WELL -	9,200.0	7,767.9	485.0	432.9	9.298	SF
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	612.3	608.1	316.0	313.9	149.796	CC, ES
SRC PRATT 34-29D (EXISTING) - SYNERGY WELL - S	7,845.4	7,691.4	413.3	385.4	14.846	SF
SRC PRATT 41-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 42-29D (EXISTING) - SYNERGY WELL - S						Out of range
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	0.0	4.0	312.9			
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	200.0	203.5	313.1	312.4	473.008	ES
SRC PRATT 43-29D (EXISTING) - SYNERGY WELL - S	1,200.0	1,095.1	479.5	475.5	118.046	SF
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	500.0	492.0	288.0	286.3	168.537	CC, ES
SRC PRATT 44-29D (EXISTING) - SYNERGY WELL - P	2,700.0	2,668.6	487.9	476.6	43.258	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 -	16,412.3	7,592.0	348.6	181.6	2.088	CC, 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	16,644.9	9,041.2	128.3	88.7	3.236	CC
WILLIAM PELTIER 1A-20H (EXISTING) - ENCANA WEL	16,657.5	9,037.9	128.9	88.5	3.190	ES, SF
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>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 33-20 (EXISTING) - ENCANA WELL - ENCAN												Offset Site Error:		0.0 ft	
Survey Program: 949-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)			
14,400.0		7,595.0		7,817.9		7,620.6		118.7		28.4		-89.50		6,618.3		-837.8		497.5		356.0		141.58		3.514			
14,410.7		7,595.0		7,817.8		7,620.5		118.8		28.4		-89.48		6,618.3		-837.8		497.4		355.7		141.77		3.509 CC, ES, SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 6-8-20 (EXISTING) - ENCANA WELL - PLAN													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		
12,100.0	7,595.0	7,692.1	7,624.0	78.8	21.1	90.00	4,686.1	-135.8	414.5	315.4	99.19	4.179		
12,200.0	7,595.0	7,692.1	7,624.0	80.5	21.1	90.00	4,686.1	-135.8	328.0	227.1	100.92	3.250		
12,300.0	7,595.0	7,692.1	7,624.0	82.2	21.1	90.00	4,686.1	-135.8	251.7	149.0	102.64	2.452		
12,400.0	7,595.0	7,692.1	7,624.0	83.9	21.1	90.00	4,686.1	-135.8	197.7	93.3	104.38	1.894		
12,471.3	7,595.0	7,692.1	7,624.0	85.2	21.1	90.00	4,686.1	-135.8	184.4	78.8	105.61	1.746	CC, ES, SF	
12,500.0	7,595.0	7,692.1	7,624.0	85.7	21.1	90.00	4,686.1	-135.8	186.6	80.5	106.11	1.759		
12,600.0	7,595.0	7,692.1	7,624.0	87.4	21.1	90.00	4,686.1	-135.8	224.9	117.0	107.84	2.085		
12,700.0	7,595.0	7,692.1	7,624.0	89.1	21.1	90.00	4,686.1	-135.8	293.8	184.2	109.57	2.681		
12,800.0	7,595.0	7,692.1	7,624.0	90.9	21.1	90.00	4,686.1	-135.8	376.9	265.6	111.31	3.386		
12,900.0	7,595.0	7,692.1	7,624.0	92.6	21.1	90.00	4,686.1	-135.8	466.7	353.6	113.04	4.128		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 8824-MWD												<b>Offset Well Error:</b>	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
10,500.0	7,595.0	7,614.0	7,614.0	51.4	13.3	90.00	3,016.2	95.2	497.8	433.3	64.48	7.720	
10,600.0	7,595.0	7,614.0	7,614.0	53.1	13.3	90.00	3,016.2	95.2	444.9	378.7	66.17	6.724	
10,700.0	7,595.0	7,614.0	7,614.0	54.8	13.3	90.00	3,016.2	95.2	410.0	342.2	67.87	6.041	
10,799.1	7,595.0	7,614.0	7,614.0	56.5	13.3	90.00	3,016.2	95.2	397.9	328.3	69.55	5.720 CC	
10,800.0	7,595.0	7,614.0	7,614.0	56.5	13.3	90.00	3,016.2	95.2	397.9	328.3	69.57	5.719 ES, SF	
10,900.0	7,595.0	7,614.0	7,614.0	58.2	13.3	90.00	3,016.2	95.2	410.5	339.2	71.27	5.759	
11,000.0	7,595.0	7,614.0	7,614.0	59.9	13.3	90.00	3,016.2	95.2	445.7	372.7	72.98	6.107	
11,100.0	7,595.0	7,614.0	7,614.0	61.6	13.3	90.00	3,016.2	95.2	498.8	424.2	74.69	6.679	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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				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	9.87	306.0	53.2	310.8						
100.0	100.0	88.0	88.0	0.2	0.2	9.87	306.0	53.2	310.6	310.3	0.31	1,016.275			
200.0	200.0	188.0	188.0	0.3	0.3	9.87	306.0	53.2	310.6	310.0	0.65	474.428			
300.0	300.0	288.0	288.0	0.5	0.5	9.87	306.0	53.2	310.6	309.6	1.00	309.442			
400.0	400.0	388.0	388.0	0.7	0.7	9.87	306.0	53.2	310.6	309.3	1.35	229.598			
500.0	500.0	488.0	488.0	0.8	0.9	9.87	306.0	53.2	310.6	308.9	1.70	182.506 CC			
600.0	600.0	588.0	588.0	1.0	1.0	159.58	306.0	53.2	311.4	309.4	2.05	151.857			
700.0	700.0	688.0	688.0	1.2	1.2	159.74	306.0	53.2	313.9	311.5	2.40	130.818			
800.0	799.9	787.9	787.9	1.4	1.4	160.00	306.0	53.2	318.0	315.3	2.75	115.722			
900.0	899.7	887.7	887.7	1.6	1.5	160.36	306.0	53.2	323.8	320.8	3.10	104.558			
1,000.0	999.4	987.4	987.4	1.8	1.7	160.79	306.0	53.2	331.0	327.5	3.45	95.995			
1,100.0	1,099.1	1,087.1	1,087.1	2.0	1.9	161.21	306.0	53.2	338.2	334.4	3.80	89.021			
1,200.0	1,198.8	1,186.8	1,186.8	2.2	2.1	161.62	306.0	53.2	345.4	341.3	4.15	83.230			
1,300.0	1,298.5	1,286.5	1,286.5	2.4	2.2	162.01	306.0	53.2	352.7	348.2	4.50	78.347			
1,400.0	1,398.2	1,386.2	1,386.2	2.6	2.4	162.39	306.0	53.2	360.0	355.1	4.85	74.176			
1,500.0	1,497.9	1,485.9	1,485.9	2.8	2.6	162.75	306.0	53.2	367.3	362.1	5.20	70.572			
1,600.0	1,597.6	1,585.6	1,585.6	3.0	2.8	163.10	306.0	53.2	374.6	369.0	5.56	67.427			
1,700.0	1,697.3	1,685.3	1,685.3	3.2	2.9	163.43	306.0	53.2	381.9	376.0	5.91	64.661			
1,800.0	1,797.0	1,785.0	1,785.0	3.5	3.1	163.75	306.0	53.2	389.3	383.0	6.26	62.208			
1,900.0	1,896.7	1,884.7	1,884.7	3.7	3.3	164.06	306.0	53.2	396.6	390.0	6.61	60.018			
2,000.0	1,996.5	1,984.5	1,984.5	3.9	3.5	164.36	306.0	53.2	404.0	397.0	6.96	58.052			
2,100.0	2,096.2	2,084.2	2,084.2	4.1	3.6	164.65	306.0	53.2	411.3	404.0	7.31	56.277			
2,200.0	2,195.9	2,183.9	2,183.9	4.3	3.8	164.92	306.0	53.2	418.7	411.0	7.66	54.667			
2,300.0	2,295.6	2,283.6	2,283.6	4.5	4.0	165.19	306.0	53.2	426.1	418.1	8.01	53.200			
2,400.0	2,395.3	2,383.3	2,383.3	4.8	4.2	165.45	306.0	53.2	433.5	425.1	8.36	51.857			
2,500.0	2,495.0	2,483.0	2,483.0	5.0	4.3	165.70	306.0	53.2	440.9	432.2	8.71	50.624			
2,600.0	2,594.7	2,582.7	2,582.7	5.2	4.5	165.94	306.0	53.2	448.3	439.2	9.06	49.488			
2,700.0	2,694.4	2,682.4	2,682.4	5.4	4.7	166.17	306.0	53.2	455.7	446.3	9.41	48.437			
2,800.0	2,794.1	2,782.1	2,782.1	5.6	4.9	166.40	306.0	53.2	463.2	453.4	9.76	47.463			
2,900.0	2,893.8	2,881.8	2,881.8	5.9	5.0	166.62	306.0	53.2	470.6	460.5	10.11	46.557			
3,000.0	2,993.5	2,981.5	2,981.5	6.1	5.2	166.83	306.0	53.2	478.0	467.6	10.46	45.713			
3,100.0	3,093.2	3,081.2	3,081.2	6.3	5.4	167.03	306.0	53.2	485.5	474.7	10.81	44.925			
3,200.0	3,192.9	3,180.9	3,180.9	6.5	5.6	167.23	306.0	53.2	492.9	481.8	11.16	44.186			
7,800.0	7,578.4	7,566.4	7,566.4	14.4	13.2	78.29	306.0	53.2	435.7	409.3	26.42	16.489			
7,900.0	7,593.8	7,581.8	7,581.8	14.8	13.2	87.83	306.0	53.2	378.3	351.1	27.19	13.915			
8,000.0	7,595.0	7,583.0	7,583.0	15.3	13.2	90.00	306.0	53.2	339.5	311.7	27.78	12.220			
8,089.5	7,595.0	7,583.0	7,583.0	15.9	13.2	90.00	306.0	53.2	327.5	299.0	28.46	11.509 ES			
8,100.0	7,595.0	7,583.0	7,583.0	16.0	13.2	90.00	306.0	53.2	327.7	299.1	28.53	11.483 SF			
8,200.0	7,595.0	7,583.0	7,583.0	16.9	13.2	90.00	306.0	53.2	345.6	316.2	29.44	11.739			
8,300.0	7,595.0	7,583.0	7,583.0	17.9	13.2	90.00	306.0	53.2	389.3	358.8	30.48	12.771			
8,400.0	7,595.0	7,583.0	7,583.0	19.0	13.2	90.00	306.0	53.2	451.3	419.7	31.63	14.267			

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

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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				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	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.560		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.65	30.036		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	1.00	19.570	CC, ES	
400.0	400.0	399.7	399.7	0.7	0.7	-91.33	-0.5	-20.3	20.3	19.0	1.35	15.056		
500.0	500.0	499.4	499.3	0.8	0.9	-94.91	-1.9	-22.5	22.6	20.9	1.70	13.284		
600.0	600.0	598.9	598.8	1.0	1.0	51.62	-4.4	-26.1	25.9	23.8	2.05	12.625		
700.0	700.0	698.4	698.1	1.2	1.2	50.42	-7.8	-31.1	29.7	27.3	2.40	12.360		
800.0	799.9	797.8	797.2	1.4	1.4	50.54	-12.1	-37.5	34.0	31.2	2.76	12.300	SF	
900.0	899.7	897.1	896.1	1.6	1.7	51.55	-17.5	-45.3	38.7	35.6	3.13	12.356		
1,000.0	999.4	996.3	994.6	1.8	1.9	52.75	-23.7	-54.6	44.2	40.7	3.52	12.560		
1,100.0	1,099.1	1,095.4	1,092.8	2.0	2.2	52.87	-31.0	-65.2	51.1	47.2	3.91	13.083		
1,200.0	1,198.8	1,194.2	1,190.5	2.2	2.5	52.20	-39.1	-77.2	59.6	55.3	4.30	13.863		
1,300.0	1,298.5	1,292.7	1,287.7	2.4	2.8	51.07	-48.2	-90.5	69.6	64.9	4.69	14.845		
1,400.0	1,398.2	1,391.2	1,384.6	2.6	3.1	49.74	-58.2	-105.2	81.1	76.0	5.07	15.981		
1,500.0	1,497.9	1,490.5	1,482.2	2.8	3.5	48.64	-68.4	-120.3	93.0	87.5	5.46	17.028		
1,600.0	1,597.6	1,589.7	1,579.8	3.0	3.8	47.78	-78.7	-135.4	104.9	99.1	5.85	17.941		
1,700.0	1,697.3	1,689.0	1,677.4	3.2	4.1	47.10	-89.0	-150.5	116.9	110.6	6.23	18.743		
1,800.0	1,797.0	1,788.3	1,774.9	3.5	4.5	46.55	-99.3	-165.6	128.8	122.2	6.62	19.453		
1,900.0	1,896.7	1,887.6	1,872.5	3.7	4.9	46.09	-109.5	-180.8	140.8	133.8	7.01	20.084		
2,000.0	1,996.5	1,986.8	1,970.1	3.9	5.2	45.70	-119.8	-195.9	152.8	145.4	7.40	20.651		
2,100.0	2,096.2	2,086.1	2,067.7	4.1	5.6	45.37	-130.1	-211.0	164.8	157.0	7.79	21.161		
2,200.0	2,195.9	2,185.4	2,165.3	4.3	5.9	45.08	-140.3	-226.1	176.8	168.6	8.17	21.623		
2,300.0	2,295.6	2,284.7	2,262.8	4.5	6.3	44.83	-150.6	-241.2	188.7	180.2	8.56	22.043		
2,400.0	2,395.3	2,383.9	2,360.4	4.8	6.6	44.61	-160.9	-256.3	200.7	191.8	8.95	22.427		
2,500.0	2,495.0	2,483.2	2,458.0	5.0	7.0	44.42	-171.1	-271.4	212.7	203.4	9.34	22.779		
2,600.0	2,594.7	2,582.5	2,555.6	5.2	7.4	44.24	-181.4	-286.5	224.8	215.0	9.73	23.103		
2,700.0	2,694.4	2,681.8	2,653.2	5.4	7.7	44.08	-191.7	-301.6	236.8	226.6	10.12	23.402		
2,800.0	2,794.1	2,781.0	2,750.7	5.6	8.1	43.94	-201.9	-316.7	248.8	238.3	10.51	23.679		
2,900.0	2,893.8	2,880.3	2,848.3	5.9	8.5	43.81	-212.2	-331.8	260.8	249.9	10.89	23.937		
3,000.0	2,993.5	2,979.6	2,945.9	6.1	8.8	43.70	-222.5	-346.9	272.8	261.5	11.28	24.176		
3,100.0	3,093.2	3,078.9	3,043.5	6.3	9.2	43.59	-232.8	-362.1	284.8	273.1	11.67	24.400		
3,200.0	3,192.9	3,178.1	3,141.1	6.5	9.5	43.49	-243.0	-377.2	296.8	284.7	12.06	24.609		
3,300.0	3,292.7	3,277.4	3,238.6	6.7	9.9	43.40	-253.3	-392.3	308.8	296.4	12.45	24.805		
3,400.0	3,392.4	3,376.7	3,336.2	6.9	10.3	43.32	-263.6	-407.4	320.8	308.0	12.84	24.989		
3,500.0	3,492.1	3,476.0	3,433.8	7.2	10.6	43.24	-273.8	-422.5	332.8	319.6	13.23	25.163		
3,600.0	3,591.8	3,575.2	3,531.4	7.4	11.0	43.16	-284.1	-437.6	344.8	331.2	13.62	25.326		
3,700.0	3,691.5	3,674.5	3,629.0	7.6	11.4	43.10	-294.4	-452.7	356.9	342.9	14.01	25.481		
3,800.0	3,791.2	3,773.8	3,726.5	7.8	11.7	43.03	-304.6	-467.8	368.9	354.5	14.39	25.627		
3,900.0	3,890.9	3,873.1	3,824.1	8.0	12.1	42.97	-314.9	-482.9	380.9	366.1	14.78	25.765		
4,000.0	3,990.6	3,972.3	3,921.7	8.3	12.5	42.92	-325.2	-498.0	392.9	377.7	15.17	25.896		
4,100.0	4,090.3	4,071.6	4,019.3	8.5	12.8	42.87	-335.4	-513.1	404.9	389.4	15.56	26.021		
4,200.0	4,190.0	4,170.9	4,116.9	8.7	13.2	42.82	-345.7	-528.2	416.9	401.0	15.95	26.140		
4,300.0	4,289.7	4,270.2	4,214.4	8.9	13.5	42.77	-356.0	-543.4	429.0	412.6	16.34	26.252		
4,400.0	4,389.4	4,369.4	4,312.0	9.1	13.9	42.73	-366.3	-558.5	441.0	424.2	16.73	26.360		
4,500.0	4,489.1	4,468.7	4,409.6	9.4	14.3	42.68	-376.5	-573.6	453.0	435.9	17.12	26.463		
4,600.0	4,588.8	4,568.0	4,507.2	9.6	14.6	42.64	-386.8	-588.7	465.0	447.5	17.51	26.561		
4,700.0	4,688.6	4,667.3	4,604.8	9.8	15.0	42.61	-397.1	-603.8	477.0	459.1	17.90	26.655		
4,800.0	4,788.3	4,766.5	4,702.3	10.0	15.4	42.57	-407.3	-618.9	489.0	470.8	18.29	26.745		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.891		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.65	17.163		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	1.00	11.183		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.9	1.35	8.293 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	-93.61	-0.7	-11.7	11.7	10.0	1.70	6.871		
600.0	600.0	599.7	599.7	1.0	1.0	49.71	-3.0	-13.0	12.8	10.7	2.05	6.223		
700.0	700.0	699.6	699.4	1.2	1.2	44.55	-6.7	-15.3	14.0	11.6	2.41	5.815		
800.0	799.9	799.4	799.0	1.4	1.4	40.39	-11.9	-18.4	15.3	12.5	2.76	5.539		
900.0	899.7	899.1	898.5	1.6	1.6	37.04	-18.5	-22.5	16.7	13.6	3.13	5.340		
1,000.0	999.4	998.9	997.8	1.8	1.8	33.66	-26.7	-27.5	18.5	15.0	3.49	5.283 SF		
1,100.0	1,099.1	1,098.7	1,097.0	2.0	2.1	29.13	-36.1	-33.2	21.4	17.6	3.85	5.560		
1,200.0	1,198.8	1,198.6	1,196.3	2.2	2.3	25.59	-45.5	-38.9	24.6	20.4	4.21	5.847		
1,300.0	1,298.5	1,298.6	1,295.6	2.4	2.6	22.86	-55.0	-44.7	27.8	23.3	4.56	6.109		
1,400.0	1,398.2	1,398.5	1,395.0	2.6	2.8	20.70	-64.5	-50.5	31.2	26.2	4.91	6.345		
1,500.0	1,497.9	1,498.4	1,494.3	2.8	3.1	18.97	-74.0	-56.3	34.5	29.2	5.26	6.557		
1,600.0	1,597.6	1,598.4	1,593.6	3.0	3.3	17.54	-83.5	-62.1	37.9	32.2	5.61	6.748		
1,700.0	1,697.3	1,698.3	1,692.9	3.2	3.6	16.34	-93.0	-67.8	41.2	35.3	5.96	6.921		
1,800.0	1,797.0	1,798.3	1,792.2	3.5	3.8	15.32	-102.4	-73.6	44.6	38.3	6.31	7.077		
1,900.0	1,896.7	1,898.2	1,891.6	3.7	4.1	14.45	-111.9	-79.4	48.1	41.4	6.66	7.218		
2,000.0	1,996.5	1,998.1	1,990.9	3.9	4.3	13.70	-121.4	-85.2	51.5	44.5	7.01	7.347		
2,100.0	2,096.2	2,098.1	2,090.2	4.1	4.6	13.04	-130.9	-90.9	54.9	47.6	7.36	7.465		
2,200.0	2,195.9	2,198.0	2,189.5	4.3	4.8	12.45	-140.4	-96.7	58.3	50.6	7.70	7.573		
2,300.0	2,295.6	2,298.0	2,288.8	4.5	5.1	11.94	-149.8	-102.5	61.8	53.7	8.05	7.672		
2,400.0	2,395.3	2,397.9	2,388.2	4.8	5.3	11.47	-159.3	-108.3	65.2	56.8	8.40	7.764		
2,500.0	2,495.0	2,497.8	2,487.5	5.0	5.6	11.06	-168.8	-114.0	68.7	59.9	8.75	7.848		
2,600.0	2,594.7	2,597.8	2,586.8	5.2	5.9	10.68	-178.3	-119.8	72.1	63.0	9.10	7.927		
2,700.0	2,694.4	2,697.7	2,686.1	5.4	6.1	10.34	-187.8	-125.6	75.6	66.1	9.45	8.000		
2,800.0	2,794.1	2,797.7	2,785.4	5.6	6.4	10.02	-197.3	-131.4	79.0	69.3	9.80	8.068		
2,900.0	2,893.8	2,897.6	2,884.8	5.9	6.6	9.74	-206.7	-137.1	82.5	72.4	10.15	8.131		
3,000.0	2,993.5	2,997.5	2,984.1	6.1	6.9	9.47	-216.2	-142.9	86.0	75.5	10.50	8.191		
3,100.0	3,093.2	3,097.5	3,083.4	6.3	7.2	9.23	-225.7	-148.7	89.4	78.6	10.85	8.247		
3,200.0	3,192.9	3,197.4	3,182.7	6.5	7.4	9.01	-235.2	-154.5	92.9	81.7	11.19	8.299		
3,300.0	3,292.7	3,297.4	3,282.0	6.7	7.7	8.80	-244.7	-160.2	96.4	84.8	11.54	8.349		
3,400.0	3,392.4	3,397.3	3,381.4	6.9	7.9	8.60	-254.2	-166.0	99.8	87.9	11.89	8.395		
3,500.0	3,492.1	3,497.2	3,480.7	7.2	8.2	8.42	-263.6	-171.8	103.3	91.1	12.24	8.439		
3,600.0	3,591.8	3,597.2	3,580.0	7.4	8.5	8.25	-273.1	-177.6	106.8	94.2	12.59	8.481		
3,700.0	3,691.5	3,697.1	3,679.3	7.6	8.7	8.10	-282.6	-183.3	110.2	97.3	12.94	8.520		
3,800.0	3,791.2	3,797.0	3,778.6	7.8	9.0	7.95	-292.1	-189.1	113.7	100.4	13.29	8.558		
3,900.0	3,890.9	3,897.0	3,878.0	8.0	9.2	7.81	-301.6	-194.9	117.2	103.6	13.64	8.593		
4,000.0	3,990.6	3,996.9	3,977.3	8.3	9.5	7.67	-311.1	-200.7	120.7	106.7	13.99	8.627		
4,100.0	4,090.3	4,096.9	4,076.6	8.5	9.8	7.55	-320.5	-206.5	124.1	109.8	14.34	8.659		
4,200.0	4,190.0	4,196.8	4,175.9	8.7	10.0	7.43	-330.0	-212.2	127.6	112.9	14.69	8.690		
4,300.0	4,289.7	4,296.7	4,275.3	8.9	10.3	7.32	-339.5	-218.0	131.1	116.1	15.04	8.719		
4,400.0	4,389.4	4,396.7	4,374.6	9.1	10.5	7.21	-349.0	-223.8	134.6	119.2	15.38	8.747		
4,500.0	4,489.1	4,496.6	4,473.9	9.4	10.8	7.11	-358.5	-229.6	138.0	122.3	15.73	8.774		
4,600.0	4,588.8	4,596.6	4,573.2	9.6	11.1	7.02	-368.0	-235.3	141.5	125.4	16.08	8.799		
4,700.0	4,688.6	4,696.5	4,672.5	9.8	11.3	6.93	-377.4	-241.1	145.0	128.6	16.43	8.824		
4,800.0	4,788.3	4,796.4	4,771.9	10.0	11.6	6.84	-386.9	-246.9	148.5	131.7	16.78	8.847		
4,900.0	4,888.0	4,896.4	4,871.2	10.2	11.8	6.76	-396.4	-252.7	151.9	134.8	17.13	8.870		
5,000.0	4,987.7	4,996.3	4,970.5	10.4	12.1	6.68	-405.9	-258.4	155.4	137.9	17.48	8.892		
5,100.0	5,087.4	5,096.3	5,069.8	10.7	12.4	6.60	-415.4	-264.2	158.9	141.1	17.83	8.912		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-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			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,200.0	5,187.1	5,196.2	5,169.1	10.9	12.6	6.53	-424.8	-270.0	162.4	144.2	18.18	8.932		
5,300.0	5,286.8	5,296.1	5,268.5	11.1	12.9	6.46	-434.3	-275.8	165.9	147.3	18.53	8.952		
5,400.0	5,386.5	5,396.1	5,367.8	11.3	13.1	6.39	-443.8	-281.5	169.3	150.5	18.88	8.970		
5,500.0	5,486.2	5,496.0	5,467.1	11.5	13.4	6.33	-453.3	-287.3	172.8	153.6	19.23	8.988		
5,600.0	5,585.9	5,596.0	5,566.4	11.8	13.7	6.27	-462.8	-293.1	176.3	156.7	19.58	9.006		
5,700.0	5,685.6	5,695.9	5,665.7	12.0	13.9	6.21	-472.3	-298.9	179.8	159.9	19.93	9.022		
5,800.0	5,785.3	5,795.8	5,765.1	12.2	14.2	6.15	-481.7	-304.6	183.3	163.0	20.28	9.038		
5,900.0	5,885.0	5,895.8	5,864.4	12.4	14.4	6.10	-491.2	-310.4	186.7	166.1	20.62	9.054		
6,000.0	5,984.8	5,995.7	5,963.7	12.6	14.7	6.05	-500.7	-316.2	190.2	169.2	20.97	9.069		
6,100.0	6,084.5	6,095.7	6,063.0	12.9	15.0	6.00	-510.2	-322.0	193.7	172.4	21.32	9.084		
6,200.0	6,184.2	6,195.6	6,162.3	13.1	15.2	5.95	-519.7	-327.7	197.2	175.5	21.67	9.098		
6,300.0	6,283.9	6,295.5	6,261.7	13.3	15.5	5.90	-529.2	-333.5	200.7	178.6	22.02	9.112		
6,400.0	6,383.6	6,395.5	6,361.0	13.5	15.7	5.85	-538.6	-339.3	204.1	181.8	22.37	9.125		
6,500.0	6,483.3	6,495.4	6,460.3	13.7	16.0	5.81	-548.1	-345.1	207.6	184.9	22.72	9.138		
6,600.0	6,583.0	6,595.3	6,559.6	14.0	16.3	5.77	-557.6	-350.9	211.1	188.0	23.07	9.150		
6,700.0	6,682.7	6,695.3	6,658.9	14.2	16.5	5.73	-567.1	-356.6	214.6	191.2	23.42	9.162		
6,800.0	6,782.4	6,795.2	6,758.3	14.4	16.8	5.69	-576.6	-362.4	218.1	194.3	23.77	9.174		
6,900.0	6,882.1	6,895.2	6,857.6	14.6	17.0	5.65	-586.1	-368.2	221.5	197.4	24.12	9.185		
7,000.0	6,981.8	6,995.1	6,956.9	14.8	17.3	5.61	-595.5	-374.0	225.0	200.6	24.47	9.196		
7,100.0	7,081.6	7,094.4	7,055.6	15.0	17.6	-121.26	-605.0	-379.7	234.4	209.7	24.65	9.507		
7,200.0	7,179.8	7,190.5	7,151.1	14.9	17.8	-137.38	-614.1	-385.2	258.1	233.6	24.46	10.553		
7,300.0	7,273.2	7,280.3	7,240.3	14.8	18.0	-142.72	-622.6	-390.4	296.8	272.9	23.90	12.419		
7,400.0	7,359.0	7,361.0	7,320.5	14.6	18.3	-145.62	-630.3	-395.1	350.4	327.4	23.05	15.203		
7,500.0	7,434.6	7,430.1	7,389.2	14.4	18.4	-146.51	-636.8	-399.1	417.8	395.7	22.13	18.876		
7,600.0	7,497.6	7,635.2	7,592.6	14.3	18.6	-153.86	-627.1	-411.9	491.9	471.4	20.49	24.009		
7,800.0	7,578.4	8,483.3	8,036.0	14.4	16.8	-156.78	7.8	-461.4	495.8	475.7	20.09	24.683		
7,900.0	7,593.8	8,582.0	8,036.0	14.8	17.1	-156.43	106.4	-464.8	482.4	462.4	19.96	24.173		
7,944.3	7,596.0	8,626.2	8,036.0	15.0	17.3	-156.24	150.6	-466.4	480.7	460.5	20.22	23.775		
8,000.0	7,595.0	8,681.9	8,036.0	15.3	17.6	-156.14	206.3	-468.3	482.2	461.7	20.53	23.484		
8,100.0	7,595.0	8,781.9	8,036.0	16.0	18.2	-155.88	306.2	-471.8	483.2	461.9	21.35	22.634		
8,200.0	7,595.0	8,881.8	8,036.0	16.9	19.0	-155.61	406.1	-475.3	484.2	462.0	22.25	21.767		
8,300.0	7,595.0	8,981.8	8,036.0	17.9	19.9	-155.35	506.0	-478.8	485.2	462.0	23.22	20.898		
8,400.0	7,595.0	9,081.8	8,036.0	19.0	21.0	-155.09	605.9	-482.3	486.3	462.0	24.27	20.039		
8,500.0	7,595.0	9,181.8	8,036.0	20.2	22.1	-154.83	705.9	-485.8	487.3	461.9	25.38	19.199		
8,600.0	7,595.0	9,281.7	8,036.0	21.5	23.3	-154.57	805.8	-489.2	488.3	461.8	26.56	18.384		
8,700.0	7,595.0	9,381.7	8,036.0	22.8	24.5	-154.31	905.7	-492.7	489.4	461.6	27.81	17.600		
8,800.0	7,595.0	9,481.7	8,036.0	24.2	25.8	-154.05	1,005.6	-496.2	490.5	461.4	29.11	16.849		
8,900.0	7,595.0	9,581.6	8,036.0	25.7	27.2	-153.80	1,105.5	-499.7	491.5	461.1	30.47	16.134		
9,000.0	7,595.0	9,681.6	8,036.0	27.1	28.6	-153.54	1,205.4	-503.2	492.6	460.7	31.87	15.455		
9,100.0	7,595.0	9,781.6	8,036.0	28.6	30.1	-153.29	1,305.3	-506.7	493.7	460.4	33.33	14.812		
9,200.0	7,595.0	9,881.5	8,036.0	30.2	31.5	-153.04	1,405.2	-510.2	494.8	460.0	34.84	14.203		
9,300.0	7,595.0	9,981.5	8,036.0	31.7	33.1	-152.78	1,505.1	-513.7	495.9	459.5	36.39	13.628		
9,400.0	7,595.0	10,081.5	8,036.0	33.3	34.6	-152.53	1,605.0	-517.2	497.1	459.1	37.98	13.086		
9,500.0	7,595.0	10,181.5	8,036.0	34.9	36.1	-152.28	1,704.9	-520.6	498.2	458.6	39.62	12.575		
9,600.0	7,595.0	10,281.4	8,036.0	36.5	37.7	-152.04	1,804.9	-524.1	499.3	458.0	41.29	12.093		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-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									
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	90.06	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	8.4	8.4	8.1	0.30	27.669			
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.7	0.65	12.873			
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	8.4	8.4	7.4	1.00	8.387			
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	8.4	8.4	7.1	1.35	6.220			
500.0	500.0	500.0	500.0	0.8	0.8	90.06	0.0	8.4	8.4	6.7	1.70	4.943	CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	-125.19	0.0	8.4	8.9	6.8	2.05	4.333	SF		
700.0	700.0	700.0	700.0	1.2	1.2	-136.91	0.0	8.4	10.6	8.2	2.40	4.429			
800.0	799.9	799.9	799.9	1.4	1.4	-149.15	0.0	8.4	14.2	11.4	2.75	5.154			
900.0	899.7	899.7	899.7	1.6	1.5	-158.36	0.0	8.4	19.7	16.6	3.10	6.368			
1,000.0	999.4	999.4	999.4	1.8	1.7	-164.29	0.0	8.4	26.9	23.4	3.44	7.804			
1,100.0	1,099.1	1,099.1	1,099.1	2.0	1.9	-167.75	0.0	8.4	34.3	30.5	3.79	9.045			
1,200.0	1,198.8	1,198.8	1,198.8	2.2	2.1	-169.97	0.0	8.4	41.8	37.7	4.14	10.097			
1,300.0	1,298.5	1,298.5	1,298.5	2.4	2.2	-171.52	0.0	8.4	49.3	44.9	4.49	10.995			
1,400.0	1,398.2	1,398.2	1,398.2	2.6	2.4	-172.65	0.0	8.4	56.9	52.1	4.84	11.769			
1,500.0	1,497.9	1,497.9	1,497.9	2.8	2.6	-173.52	0.0	8.4	64.5	59.3	5.18	12.443			
1,600.0	1,597.6	1,597.6	1,597.6	3.0	2.8	-174.21	0.0	8.4	72.1	66.6	5.53	13.034			
1,700.0	1,697.3	1,697.3	1,697.3	3.2	2.9	-174.76	0.0	8.4	79.7	73.8	5.88	13.556			
1,800.0	1,797.0	1,797.0	1,797.0	3.5	3.1	-175.22	0.0	8.4	87.3	81.1	6.23	14.021			
1,900.0	1,896.7	1,896.7	1,896.7	3.7	3.3	-175.60	0.0	8.4	95.0	88.4	6.58	14.437			
2,000.0	1,996.5	1,996.5	1,996.5	3.9	3.5	-175.93	0.0	8.4	102.6	95.7	6.93	14.812			
2,100.0	2,096.2	2,097.3	2,097.3	4.1	3.6	-175.87	-0.8	8.7	109.7	102.4	7.28	15.078			
2,200.0	2,195.9	2,198.3	2,198.2	4.3	3.8	-175.11	-3.3	9.5	115.8	108.2	7.63	15.180			
2,300.0	2,295.6	2,299.3	2,299.2	4.5	4.0	-173.74	-7.4	10.9	120.9	112.9	7.99	15.143			
2,400.0	2,395.3	2,400.3	2,400.0	4.8	4.2	-171.80	-13.2	12.9	125.1	116.8	8.35	14.990			
2,500.0	2,495.0	2,501.3	2,500.7	5.0	4.4	-169.31	-20.8	15.5	128.6	119.8	8.72	14.745			
2,600.0	2,594.7	2,602.1	2,601.0	5.2	4.6	-166.28	-29.9	18.6	131.4	122.3	9.11	14.433			
2,700.0	2,694.4	2,702.8	2,701.0	5.4	4.8	-162.70	-40.8	22.3	133.9	124.4	9.51	14.076			
2,800.0	2,794.1	2,802.8	2,800.2	5.6	5.0	-158.67	-53.0	26.4	136.3	126.4	9.94	13.712			
2,900.0	2,893.8	2,902.3	2,898.8	5.9	5.2	-154.73	-65.4	30.7	139.4	129.0	10.39	13.413			
3,000.0	2,993.5	3,001.8	2,997.4	6.1	5.4	-150.96	-77.8	34.9	143.0	132.2	10.85	13.179			
3,100.0	3,093.2	3,101.3	3,096.1	6.3	5.7	-147.40	-90.2	39.1	147.3	136.0	11.33	13.003			
3,200.0	3,192.9	3,200.8	3,194.7	6.5	5.9	-144.05	-102.5	43.3	152.1	140.3	11.81	12.877			
3,300.0	3,292.7	3,300.2	3,293.3	6.7	6.2	-140.91	-114.9	47.5	157.4	145.1	12.30	12.795			
3,400.0	3,392.4	3,399.7	3,392.0	6.9	6.4	-137.98	-127.3	51.7	163.1	150.3	12.79	12.750			
3,500.0	3,492.1	3,499.2	3,490.6	7.2	6.7	-135.26	-139.7	56.0	169.2	155.9	13.29	12.737			
3,600.0	3,591.8	3,598.7	3,589.2	7.4	6.9	-132.73	-152.1	60.2	175.7	161.9	13.78	12.751			
3,700.0	3,691.5	3,698.2	3,687.9	7.6	7.2	-130.39	-164.5	64.4	182.5	168.2	14.27	12.787			
3,800.0	3,791.2	3,797.7	3,786.5	7.8	7.4	-128.21	-176.9	68.6	189.6	174.8	14.76	12.841			
3,900.0	3,890.9	3,897.2	3,885.1	8.0	7.7	-126.20	-189.3	72.8	196.9	181.7	15.25	12.910			
4,000.0	3,990.6	3,996.7	3,983.8	8.3	7.9	-124.33	-201.7	77.1	204.5	188.7	15.74	12.992			
4,100.0	4,090.3	4,096.2	4,082.4	8.5	8.2	-122.59	-214.1	81.3	212.2	196.0	16.22	13.083			
4,200.0	4,190.0	4,195.7	4,181.0	8.7	8.5	-120.98	-226.5	85.5	220.2	203.5	16.70	13.182			
4,300.0	4,289.7	4,295.2	4,279.7	8.9	8.7	-119.48	-238.9	89.7	228.3	211.1	17.18	13.286			
4,400.0	4,389.4	4,394.7	4,378.3	9.1	9.0	-118.08	-251.3	93.9	236.5	218.9	17.66	13.396			
4,500.0	4,489.1	4,494.2	4,476.9	9.4	9.3	-116.78	-263.6	98.2	244.9	226.8	18.13	13.508			
4,600.0	4,588.8	4,593.7	4,575.6	9.6	9.5	-115.57	-276.0	102.4	253.4	234.8	18.60	13.623			
4,700.0	4,688.6	4,693.2	4,674.2	9.8	9.8	-114.43	-288.4	106.6	262.0	243.0	19.07	13.740			
4,800.0	4,788.3	4,792.7	4,772.8	10.0	10.1	-113.37	-300.8	110.8	270.7	251.2	19.54	13.857			
4,900.0	4,888.0	4,892.2	4,871.5	10.2	10.4	-112.37	-313.2	115.0	279.5	259.5	20.00	13.975			
5,000.0	4,987.7	4,991.7	4,970.1	10.4	10.6	-111.43	-325.6	119.2	288.4	267.9	20.46	14.092			
5,100.0	5,087.4	5,091.2	5,068.7	10.7	10.9	-110.55	-338.0	123.5	297.3	276.4	20.92	14.209			

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-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				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		
5,200.0	5,187.1	5,190.7	5,167.4	10.9	11.2	-109.73	-350.4	127.7	306.3	284.9	21.38	14.324		
5,300.0	5,286.8	5,290.2	5,266.0	11.1	11.5	-108.94	-362.8	131.9	315.4	293.5	21.84	14.439		
5,400.0	5,386.5	5,389.7	5,364.6	11.3	11.7	-108.21	-375.2	136.1	324.5	302.2	22.30	14.552		
5,500.0	5,486.2	5,489.2	5,463.3	11.5	12.0	-107.51	-387.6	140.3	333.7	310.9	22.75	14.664		
5,600.0	5,585.9	5,588.7	5,561.9	11.8	12.3	-106.85	-400.0	144.6	342.9	319.7	23.21	14.774		
5,700.0	5,685.6	5,688.2	5,660.5	12.0	12.6	-106.22	-412.3	148.8	352.1	328.5	23.66	14.882		
5,800.0	5,785.3	5,787.7	5,759.2	12.2	12.8	-105.63	-424.7	153.0	361.4	337.3	24.11	14.988		
5,900.0	5,885.0	5,887.2	5,857.8	12.4	13.1	-105.07	-437.1	157.2	370.8	346.2	24.57	15.093		
6,000.0	5,984.8	5,986.7	5,956.4	12.6	13.4	-104.53	-449.5	161.4	380.1	355.1	25.02	15.195		
6,100.0	6,084.5	6,086.2	6,055.1	12.9	13.7	-104.02	-461.9	165.6	389.5	364.1	25.47	15.296		
6,200.0	6,184.2	6,185.7	6,153.7	13.1	14.0	-103.54	-474.3	169.9	399.0	373.1	25.92	15.395		
6,300.0	6,283.9	6,285.2	6,252.3	13.3	14.2	-103.07	-486.7	174.1	408.4	382.1	26.36	15.492		
6,400.0	6,383.6	6,384.7	6,351.0	13.5	14.5	-102.63	-499.1	178.3	417.9	391.1	26.81	15.586		
6,500.0	6,483.3	6,484.2	6,449.6	13.7	14.8	-102.21	-511.5	182.5	427.4	400.2	27.26	15.679		
6,600.0	6,583.0	6,583.7	6,548.2	14.0	15.1	-101.80	-523.9	186.7	436.9	409.2	27.71	15.770		
6,700.0	6,682.7	6,683.2	6,646.9	14.2	15.4	-101.42	-536.3	191.0	446.5	418.3	28.15	15.859		
6,800.0	6,782.4	6,782.7	6,745.5	14.4	15.6	-101.04	-548.7	195.2	456.1	427.5	28.60	15.947		
6,900.0	6,882.1	6,882.2	6,844.1	14.6	15.9	-100.69	-561.1	199.4	465.6	436.6	29.04	16.032		
7,000.0	6,981.8	6,981.7	6,942.8	14.8	16.2	-100.35	-573.4	203.6	475.3	445.8	29.49	16.116		
7,100.0	7,081.6	7,080.4	7,040.6	15.0	16.5	-100.02	-585.7	207.8	485.5	455.7	29.94	16.200		
10,800.0	7,595.0	11,525.4	8,036.0	56.5	57.3	153.02	3,037.7	-78.3	495.4	436.2	59.18	8.371		
10,900.0	7,595.0	11,621.3	8,036.0	58.2	59.0	153.92	3,133.1	-88.1	491.3	431.9	59.36	8.276		
11,000.0	7,595.0	11,717.4	8,036.0	59.9	60.6	154.67	3,228.9	-96.2	488.1	428.4	59.70	8.176		
11,100.0	7,595.0	11,813.8	8,036.0	61.6	62.2	155.26	3,325.1	-102.7	485.7	425.4	60.21	8.066		
11,200.0	7,595.0	11,910.3	8,036.0	63.3	63.9	155.69	3,421.5	-107.7	484.0	423.0	60.95	7.941		
11,300.0	7,595.0	12,006.9	8,036.0	65.0	65.5	155.94	3,518.0	-111.0	483.0	421.1	61.93	7.799		
11,391.0	7,595.0	12,094.9	8,036.0	66.6	67.0	156.01	3,606.0	-112.6	482.7	419.6	63.06	7.655		
11,400.0	7,595.0	12,103.6	8,036.0	66.7	67.2	156.01	3,614.7	-112.7	482.7	419.5	63.19	7.639		
11,500.0	7,595.0	12,200.0	8,036.0	68.4	68.8	155.90	3,711.1	-112.7	483.1	418.4	64.75	7.461		
11,600.0	7,595.0	12,296.9	8,036.0	70.1	70.5	155.62	3,808.0	-111.1	484.2	417.6	66.65	7.265		
11,700.0	7,595.0	12,393.4	8,036.0	71.9	72.1	155.17	3,904.4	-107.9	486.0	417.1	68.90	7.054		
11,800.0	7,595.0	12,491.0	8,036.0	73.6	73.8	154.55	4,001.9	-103.1	488.6	417.0	71.53	6.830		
11,900.0	7,595.0	12,590.8	8,036.0	75.3	75.5	153.89	4,101.6	-97.9	491.3	417.0	74.33	6.610		
12,000.0	7,595.0	12,690.6	8,036.0	77.0	77.2	153.24	4,201.2	-92.7	494.1	416.9	77.18	6.402		
12,100.0	7,595.0	12,790.4	8,036.0	78.8	79.0	152.59	4,300.9	-87.5	497.0	416.9	80.09	6.205		
12,200.0	7,595.0	12,890.2	8,036.0	80.5	80.7	151.96	4,400.6	-82.2	499.9	416.8	83.05	6.019		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-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		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	90.05	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.560		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	19.0	0.65	30.036		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	19.6	19.6	18.6	1.00	19.570		
400.0	400.0	400.0	400.0	0.7	0.7	90.05	0.0	19.6	19.6	18.3	1.35	14.513		
500.0	500.0	500.0	500.0	0.8	0.8	90.05	0.0	19.6	19.6	17.9	1.70	11.533 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	-120.35	-0.7	20.1	20.5	18.5	2.05	10.013		
700.0	700.0	699.6	699.5	1.2	1.2	-120.53	-2.9	21.5	23.3	20.9	2.40	9.684 SF		
800.0	799.9	799.2	799.1	1.4	1.4	-120.73	-6.6	23.8	27.8	25.1	2.76	10.072		
900.0	899.7	898.7	898.4	1.6	1.6	-120.92	-11.7	27.1	34.2	31.1	3.14	10.911		
1,000.0	999.4	998.1	997.4	1.8	1.8	-120.67	-18.2	31.3	42.2	38.7	3.52	11.984		
1,100.0	1,099.1	1,097.2	1,096.1	2.0	2.0	-118.98	-26.2	36.3	51.2	47.3	3.92	13.053		
1,200.0	1,198.8	1,196.1	1,194.4	2.2	2.2	-116.48	-35.6	42.3	61.3	56.9	4.34	14.123		
1,300.0	1,298.5	1,295.4	1,292.9	2.4	2.5	-113.96	-46.0	49.0	72.1	67.3	4.76	15.156		
1,400.0	1,398.2	1,394.7	1,391.5	2.6	2.7	-112.08	-56.4	55.6	83.0	77.9	5.18	16.036		
1,500.0	1,497.9	1,494.1	1,490.1	2.8	3.0	-110.64	-66.8	62.3	94.1	88.5	5.60	16.789		
1,600.0	1,597.6	1,593.5	1,588.7	3.0	3.2	-109.50	-77.2	68.9	105.1	99.1	6.03	17.439		
1,700.0	1,697.3	1,692.8	1,687.3	3.2	3.5	-108.58	-87.6	75.6	116.2	109.8	6.46	18.005		
1,800.0	1,797.0	1,792.2	1,785.9	3.5	3.8	-107.82	-98.0	82.2	127.4	120.5	6.88	18.502		
1,900.0	1,896.7	1,891.6	1,884.5	3.7	4.0	-107.19	-108.4	88.9	138.5	131.2	7.31	18.941		
2,000.0	1,996.5	1,990.9	1,983.1	3.9	4.3	-106.64	-118.9	95.5	149.6	141.9	7.74	19.331		
2,100.0	2,096.2	2,090.3	2,081.7	4.1	4.6	-106.18	-129.3	102.2	160.8	152.6	8.17	19.680		
2,200.0	2,195.9	2,189.7	2,180.3	4.3	4.8	-105.77	-139.7	108.8	172.0	163.4	8.60	19.995		
2,300.0	2,295.6	2,289.0	2,278.8	4.5	5.1	-105.41	-150.1	115.5	183.2	174.1	9.03	20.279		
2,400.0	2,395.3	2,388.4	2,377.4	4.8	5.4	-105.10	-160.5	122.1	194.4	184.9	9.46	20.537		
2,500.0	2,495.0	2,487.8	2,476.0	5.0	5.7	-104.82	-170.9	128.8	205.6	195.7	9.90	20.773		
2,600.0	2,594.7	2,587.1	2,574.6	5.2	5.9	-104.56	-181.3	135.4	216.8	206.4	10.33	20.988		
2,700.0	2,694.4	2,686.5	2,673.2	5.4	6.2	-104.34	-191.7	142.1	228.0	217.2	10.76	21.187		
2,800.0	2,794.1	2,785.9	2,771.8	5.6	6.5	-104.13	-202.1	148.7	239.2	228.0	11.19	21.370		
2,900.0	2,893.8	2,885.2	2,870.4	5.9	6.7	-103.94	-212.6	155.4	250.4	238.7	11.62	21.539		
3,000.0	2,993.5	2,984.6	2,969.0	6.1	7.0	-103.77	-223.0	162.0	261.6	249.5	12.06	21.696		
3,100.0	3,093.2	3,084.0	3,067.6	6.3	7.3	-103.61	-233.4	168.7	272.8	260.3	12.49	21.842		
3,200.0	3,192.9	3,183.3	3,166.2	6.5	7.6	-103.47	-243.8	175.3	284.0	271.1	12.92	21.978		
3,300.0	3,292.7	3,282.7	3,264.8	6.7	7.8	-103.33	-254.2	182.0	295.2	281.9	13.36	22.105		
3,400.0	3,392.4	3,382.1	3,363.4	6.9	8.1	-103.21	-264.6	188.6	306.5	292.7	13.79	22.224		
3,500.0	3,492.1	3,481.4	3,462.0	7.2	8.4	-103.09	-275.0	195.3	317.7	303.4	14.22	22.336		
3,600.0	3,591.8	3,580.8	3,560.6	7.4	8.7	-102.99	-285.4	202.0	328.9	314.2	14.66	22.441		
3,700.0	3,691.5	3,680.2	3,659.2	7.6	8.9	-102.88	-295.8	208.6	340.1	325.0	15.09	22.540		
3,800.0	3,791.2	3,779.5	3,757.8	7.8	9.2	-102.79	-306.3	215.3	351.3	335.8	15.52	22.633		
3,900.0	3,890.9	3,878.9	3,856.4	8.0	9.5	-102.70	-316.7	221.9	362.6	346.6	15.96	22.722		
4,000.0	3,990.6	3,978.3	3,955.0	8.3	9.8	-102.62	-327.1	228.6	373.8	357.4	16.39	22.805		
4,100.0	4,090.3	4,077.6	4,053.6	8.5	10.0	-102.54	-337.5	235.2	385.0	368.2	16.82	22.884		
4,200.0	4,190.0	4,177.0	4,152.2	8.7	10.3	-102.47	-347.9	241.9	396.2	379.0	17.26	22.960		
4,300.0	4,289.7	4,276.4	4,250.8	8.9	10.6	-102.40	-358.3	248.5	407.5	389.8	17.69	23.031		
4,400.0	4,389.4	4,375.7	4,349.4	9.1	10.9	-102.33	-368.7	255.2	418.7	400.6	18.13	23.099		
4,500.0	4,489.1	4,475.1	4,448.0	9.4	11.1	-102.27	-379.1	261.8	429.9	411.4	18.56	23.164		
4,600.0	4,588.8	4,574.5	4,546.5	9.6	11.4	-102.21	-389.5	268.5	441.1	422.2	18.99	23.226		
4,700.0	4,688.6	4,673.8	4,645.1	9.8	11.7	-102.15	-399.9	275.1	452.4	432.9	19.43	23.285		
4,800.0	4,788.3	4,773.2	4,743.7	10.0	12.0	-102.10	-410.4	281.8	463.6	443.7	19.86	23.341		
4,900.0	4,888.0	4,872.6	4,842.3	10.2	12.3	-102.05	-420.8	288.4	474.8	454.5	20.30	23.395		
5,000.0	4,987.7	4,971.9	4,940.9	10.4	12.5	-102.00	-431.2	295.1	486.1	465.3	20.73	23.447		
5,100.0	5,087.4	5,071.3	5,039.5	10.7	12.8	-101.95	-441.6	301.7	497.3	476.1	21.16	23.497		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-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	90.05	0.0	28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	28.0	28.0	27.7	0.30	92.228		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	28.0	28.0	27.4	0.65	42.908		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	28.0	28.0	27.0	1.00	27.958		
400.0	400.0	400.0	400.0	0.7	0.7	90.05	0.0	28.0	28.0	26.7	1.35	20.734 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.8	91.15	-0.6	28.7	28.7	27.0	1.70	16.877		
600.0	600.0	599.2	599.1	1.0	1.0	-117.63	-2.2	30.7	31.2	29.1	2.05	15.214		
700.0	700.0	698.6	698.5	1.2	1.2	-117.19	-5.0	34.0	35.9	33.5	2.40	14.936 SF		
800.0	799.9	797.8	797.5	1.4	1.4	-117.57	-8.8	38.7	42.8	40.0	2.76	15.487		
900.0	899.7	896.7	896.1	1.6	1.6	-118.38	-13.7	44.7	51.9	48.8	3.14	16.554		
1,000.0	999.4	995.3	994.3	1.8	1.8	-119.11	-19.6	51.9	63.1	59.5	3.52	17.911		
1,100.0	1,099.1	1,093.6	1,091.9	2.0	2.1	-118.90	-26.6	60.5	75.6	71.7	3.92	19.310		
1,200.0	1,198.8	1,191.5	1,189.0	2.2	2.3	-118.08	-34.6	70.2	89.5	85.2	4.32	20.726		
1,300.0	1,298.5	1,289.4	1,285.8	2.4	2.6	-116.95	-43.6	81.3	104.7	100.0	4.73	22.154		
1,400.0	1,398.2	1,388.2	1,383.5	2.6	2.9	-115.98	-53.0	92.7	120.3	115.1	5.14	23.409		
1,500.0	1,497.9	1,486.9	1,481.1	2.8	3.2	-115.23	-62.4	104.2	135.9	130.3	5.55	24.473		
1,600.0	1,597.6	1,585.7	1,578.8	3.0	3.5	-114.63	-71.7	115.6	151.5	145.5	5.97	25.386		
1,700.0	1,697.3	1,684.4	1,676.4	3.2	3.8	-114.15	-81.1	127.1	167.1	160.8	6.39	26.175		
1,800.0	1,797.0	1,783.2	1,774.1	3.5	4.1	-113.74	-90.5	138.5	182.8	176.0	6.80	26.865		
1,900.0	1,896.7	1,882.0	1,871.7	3.7	4.4	-113.41	-99.9	150.0	198.5	191.2	7.22	27.472		
2,000.0	1,996.5	1,980.7	1,969.4	3.9	4.7	-113.12	-109.2	161.4	214.1	206.5	7.64	28.011		
2,100.0	2,096.2	2,079.5	2,067.0	4.1	5.0	-112.87	-118.6	172.9	229.8	221.7	8.07	28.492		
2,200.0	2,195.9	2,178.2	2,164.6	4.3	5.3	-112.65	-128.0	184.3	245.5	237.0	8.49	28.923		
2,300.0	2,295.6	2,277.0	2,262.3	4.5	5.6	-112.46	-137.3	195.8	261.1	252.2	8.91	29.313		
2,400.0	2,395.3	2,375.8	2,359.9	4.8	5.9	-112.29	-146.7	207.2	276.8	267.5	9.33	29.666		
2,500.0	2,495.0	2,474.5	2,457.6	5.0	6.2	-112.14	-156.1	218.7	292.5	282.7	9.75	29.988		
2,600.0	2,594.7	2,573.3	2,555.2	5.2	6.5	-112.00	-165.5	230.1	308.2	298.0	10.18	30.282		
2,700.0	2,694.4	2,672.0	2,652.9	5.4	6.8	-111.88	-174.8	241.6	323.9	313.3	10.60	30.553		
2,800.0	2,794.1	2,770.8	2,750.5	5.6	7.1	-111.77	-184.2	253.0	339.5	328.5	11.02	30.802		
2,900.0	2,893.8	2,869.6	2,848.2	5.9	7.4	-111.66	-193.6	264.5	355.2	343.8	11.45	31.032		
3,000.0	2,993.5	2,968.3	2,945.8	6.1	7.7	-111.57	-202.9	276.0	370.9	359.0	11.87	31.245		
3,100.0	3,093.2	3,067.1	3,043.5	6.3	8.0	-111.49	-212.3	287.4	386.6	374.3	12.30	31.443		
3,200.0	3,192.9	3,165.8	3,141.1	6.5	8.3	-111.41	-221.7	298.9	402.3	389.6	12.72	31.628		
3,300.0	3,292.7	3,264.6	3,238.7	6.7	8.7	-111.33	-231.1	310.3	418.0	404.8	13.14	31.800		
3,400.0	3,392.4	3,363.4	3,336.4	6.9	9.0	-111.27	-240.4	321.8	433.7	420.1	13.57	31.962		
3,500.0	3,492.1	3,462.1	3,434.0	7.2	9.3	-111.20	-249.8	333.2	449.4	435.4	13.99	32.113		
3,600.0	3,591.8	3,560.9	3,531.7	7.4	9.6	-111.14	-259.2	344.7	465.1	450.6	14.42	32.255		
3,700.0	3,691.5	3,659.6	3,629.3	7.6	9.9	-111.09	-268.6	356.1	480.8	465.9	14.84	32.389		
3,800.0	3,791.2	3,758.4	3,727.0	7.8	10.2	-111.04	-277.9	367.6	496.4	481.2	15.27	32.515		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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						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	4.2	4.2	0.0	0.0	-0.17	328.3	-1.0	328.3					
100.0	100.0	108.0	108.0	0.2	0.2	-0.07	327.7	-0.4	327.7	327.4	0.33	995.070		
200.0	200.0	211.8	211.7	0.3	0.4	0.19	325.8	1.1	325.9	325.2	0.67	483.214		
300.0	300.0	316.9	316.8	0.5	0.6	0.15	322.5	0.8	322.7	321.7	1.04	311.553		
400.0	400.0	419.7	419.3	0.7	0.8	-0.93	317.9	-5.2	318.3	316.9	1.43	223.242		
500.0	500.0	519.8	518.6	0.8	1.0	-2.95	312.6	-16.1	313.4	311.5	1.86	168.210		
600.0	600.0	615.7	613.3	1.0	1.3	144.01	307.8	-31.1	310.2	307.9	2.29	135.328		
642.6	642.6	656.0	652.8	1.1	1.5	142.71	306.0	-38.5	309.9	307.3	2.51	123.248 CC, ES		
700.0	700.0	709.5	705.2	1.2	1.7	140.86	303.8	-49.2	310.5	307.7	2.83	109.853		
800.0	799.9	799.8	793.1	1.4	2.0	137.53	301.2	-69.6	315.1	311.7	3.40	92.801		
900.0	899.7	886.2	876.8	1.6	2.4	134.37	301.3	-91.0	325.6	321.6	3.97	82.108		
1,000.0	999.4	981.6	969.1	1.8	2.8	131.28	303.0	-115.2	339.9	335.3	4.56	74.461		
1,100.0	1,099.1	1,076.2	1,060.6	2.0	3.3	128.57	305.3	-139.1	355.7	350.6	5.16	69.000		
1,200.0	1,198.8	1,167.5	1,148.6	2.2	3.7	126.06	308.3	-163.1	373.6	367.8	5.74	65.127		
1,300.0	1,298.5	1,256.1	1,233.8	2.4	4.2	123.76	312.4	-187.5	393.8	387.5	6.29	62.572		
1,400.0	1,398.2	1,339.3	1,313.1	2.6	4.6	121.79	318.3	-211.4	417.4	410.6	6.81	61.263		
1,500.0	1,497.9	1,434.8	1,404.2	2.8	5.1	119.82	326.5	-239.1	442.9	435.6	7.36	60.154		
1,600.0	1,597.6	1,529.3	1,494.2	3.0	5.7	118.09	334.8	-266.5	469.1	461.2	7.89	59.432		
1,700.0	1,697.3	1,626.5	1,586.9	3.2	6.2	116.49	343.3	-294.8	495.7	487.2	8.42	58.866 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
9,400.0	7,595.0	7,734.1	7,619.2	33.3	21.3	85.87	2,044.1	-142.8	455.0	401.3	53.72	8.470		
9,500.0	7,595.0	7,735.6	7,620.7	34.9	21.3	86.44	2,044.2	-142.7	362.1	306.8	55.36	6.541		
9,600.0	7,595.0	7,737.2	7,622.2	36.5	21.3	87.03	2,044.2	-142.7	274.3	217.2	57.02	4.810		
9,700.0	7,595.0	7,738.7	7,623.8	38.1	21.3	87.62	2,044.2	-142.6	198.2	139.5	58.68	3.378		
9,800.0	7,595.0	7,740.3	7,625.4	39.8	21.3	88.23	2,044.2	-142.6	152.9	92.5	60.35	2.533		
9,829.6	7,595.0	7,740.8	7,625.9	40.2	21.3	88.42	2,044.2	-142.6	150.0	89.1	60.84	2.465 CC, ES, SF		
9,900.0	7,595.0	7,742.0	7,627.0	41.4	21.3	88.86	2,044.3	-142.6	165.6	103.6	62.02	2.671		
10,000.0	7,595.0	7,743.6	7,628.7	43.1	21.3	89.49	2,044.3	-142.5	226.9	163.2	63.69	3.563		
10,100.0	7,595.0	7,745.3	7,630.4	44.7	21.3	90.14	2,044.3	-142.5	309.1	243.8	65.37	4.729		
10,200.0	7,595.0	7,747.1	7,632.1	46.4	21.3	90.81	2,044.3	-142.4	399.5	332.5	67.04	5.959		
10,300.0	7,595.0	7,748.9	7,633.9	48.0	21.3	91.49	2,044.4	-142.4	493.6	424.9	68.71	7.184		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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							
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	3.0	3.0	0.0	0.0	18.06	280.1	91.3	294.6					
100.0	100.0	103.0	103.0	0.2	0.2	18.08	280.1	91.4	294.6	294.3	0.33	888.238		
200.0	200.0	203.0	203.0	0.3	0.4	18.14	280.0	91.7	294.6	293.9	0.68	432.720		
300.0	300.0	303.0	303.0	0.5	0.5	18.23	279.8	92.2	294.6	293.6	1.03	286.021		
400.0	400.0	403.1	403.1	0.7	0.7	18.36	279.6	92.8	294.6	293.2	1.38	213.595		
500.0	500.0	503.1	503.1	0.8	0.9	18.52	279.3	93.6	294.6	292.8	1.73	170.430		
501.2	501.2	504.3	504.3	0.9	0.9	168.19	279.3	93.6	294.6	292.8	1.74	169.589		
600.0	600.0	603.1	603.1	1.0	1.1	168.42	278.9	94.6	295.4	293.3	2.08	141.855		
700.0	700.0	703.0	703.0	1.2	1.2	168.76	278.5	95.7	298.0	295.5	2.43	122.533		
800.0	799.9	802.9	802.9	1.4	1.4	169.18	278.1	97.0	302.3	299.5	2.78	108.713		
900.0	899.7	902.7	902.6	1.6	1.6	169.68	277.5	98.6	308.3	305.2	3.13	98.553		
1,000.0	999.4	1,002.4	1,002.3	1.8	1.8	170.25	276.9	100.2	315.8	312.3	3.48	90.800		
1,100.0	1,099.1	1,111.1	1,111.0	2.0	2.0	170.82	275.1	101.5	322.2	318.4	3.84	83.824		
1,200.0	1,198.8	1,227.6	1,227.4	2.2	2.2	171.16	269.3	99.8	324.6	320.4	4.22	76.912		
1,300.0	1,298.5	1,344.5	1,343.5	2.4	2.4	171.74	256.8	96.9	321.2	316.6	4.61	69.740		
1,400.0	1,398.2	1,455.6	1,453.3	2.6	2.7	172.53	240.4	93.6	314.0	309.1	4.98	63.020		
1,500.0	1,497.9	1,566.6	1,562.4	2.8	3.0	173.34	220.3	88.5	303.1	297.7	5.36	56.497		
1,600.0	1,597.6	1,671.8	1,665.1	3.0	3.3	174.40	197.9	83.5	289.2	283.4	5.74	50.351		
1,700.0	1,697.3	1,777.3	1,767.5	3.2	3.7	175.42	173.8	76.8	273.1	267.0	6.12	44.647		
1,800.0	1,797.0	1,877.3	1,864.2	3.5	4.1	176.64	149.1	70.2	255.6	249.1	6.50	39.319		
1,900.0	1,896.7	1,972.7	1,956.6	3.7	4.5	178.27	125.6	65.3	238.8	231.9	6.89	34.657		
2,000.0	1,996.5	2,073.3	2,053.8	3.9	5.0	-179.61	100.4	60.5	222.0	214.7	7.32	30.350		
2,100.0	2,096.2	2,171.2	2,148.3	4.1	5.4	-176.98	75.1	56.3	205.2	197.4	7.78	26.391		
2,200.0	2,195.9	2,268.1	2,241.9	4.3	5.8	-173.96	50.5	52.4	189.4	181.1	8.27	22.899		
2,300.0	2,295.6	2,365.7	2,336.4	4.5	6.3	-170.69	26.5	47.9	174.5	165.7	8.81	19.820		
2,400.0	2,395.3	2,464.0	2,431.8	4.8	6.7	-166.87	2.9	43.6	160.9	151.5	9.41	17.100		
2,500.0	2,495.0	2,563.6	2,528.1	5.0	7.1	-162.21	-21.8	39.0	147.4	137.3	10.12	14.569		
2,600.0	2,594.7	2,662.0	2,623.2	5.2	7.6	-156.61	-46.5	34.3	134.7	123.8	10.92	12.333		
2,700.0	2,694.4	2,759.9	2,718.2	5.4	8.0	-150.52	-70.2	28.9	123.4	111.6	11.80	10.460		
2,800.0	2,794.1	2,857.7	2,813.0	5.6	8.5	-143.63	-93.2	23.9	114.4	101.6	12.78	8.956		
2,900.0	2,893.8	2,957.6	2,909.8	5.9	8.9	-135.05	-117.5	19.1	107.5	93.6	13.88	7.746		
3,000.0	2,993.5	3,056.4	3,005.2	6.1	9.4	-125.15	-142.5	12.9	101.7	86.7	15.00	6.780		
3,095.0	3,088.3	3,149.0	3,094.5	6.3	9.8	-114.94	-166.4	7.4	99.7	83.8	15.94	6.253 CC		
3,100.0	3,093.2	3,153.9	3,099.2	6.3	9.9	-114.41	-167.6	7.1	99.7	83.7	15.99	6.236 ES		
3,200.0	3,192.9	3,253.6	3,195.6	6.5	10.3	-103.85	-192.5	1.2	101.2	84.4	16.73	6.047		
3,300.0	3,292.7	3,351.9	3,290.7	6.7	10.8	-94.07	-216.4	-5.7	104.8	87.6	17.21	6.091		
3,400.0	3,392.4	3,447.9	3,383.4	6.9	11.3	-85.11	-240.7	-11.8	112.3	94.9	17.46	6.436		
3,500.0	3,492.1	3,546.5	3,478.2	7.2	11.7	-76.84	-267.0	-17.9	123.5	106.0	17.52	7.052		
3,600.0	3,591.8	3,644.6	3,572.8	7.4	12.2	-70.51	-292.1	-23.4	136.4	118.9	17.53	7.781		
3,700.0	3,691.5	3,744.6	3,669.7	7.6	12.7	-65.70	-316.5	-28.3	149.9	132.3	17.58	8.525		
3,800.0	3,791.2	3,842.6	3,764.6	7.8	13.1	-61.58	-340.3	-33.9	163.9	146.2	17.65	9.285		
3,900.0	3,890.9	3,940.9	3,859.7	8.0	13.6	-57.76	-364.7	-40.4	178.6	160.9	17.70	10.090		
4,000.0	3,990.6	4,038.2	3,953.5	8.3	14.1	-54.47	-389.3	-46.9	194.5	176.7	17.77	10.940		
4,100.0	4,090.3	4,136.7	4,048.7	8.5	14.5	-51.80	-414.1	-53.0	210.9	193.0	17.89	11.787		
4,200.0	4,190.0	4,237.1	4,145.8	8.7	15.0	-49.69	-438.9	-58.4	227.5	209.4	18.06	12.598		
4,300.0	4,289.7	4,344.4	4,250.4	8.9	15.4	-48.12	-462.4	-63.6	241.8	223.5	18.29	13.221		
4,400.0	4,389.4	4,450.3	4,354.3	9.1	15.8	-47.09	-481.7	-68.5	252.7	234.1	18.57	13.604		
4,500.0	4,489.1	4,554.6	4,457.2	9.4	16.1	-46.48	-498.4	-72.4	261.8	242.9	18.90	13.849		
4,600.0	4,588.8	4,659.7	4,561.3	9.6	16.4	-46.20	-512.8	-75.7	268.9	249.6	19.27	13.954		
4,700.0	4,688.6	4,768.1	4,669.0	9.8	16.7	-46.19	-524.8	-78.5	273.5	253.8	19.67	13.903		
4,800.0	4,788.3	4,873.1	4,773.7	10.0	16.9	-46.63	-533.1	-79.9	275.5	255.4	20.12	13.692		
4,900.0	4,888.0	4,974.5	4,874.8	10.2	17.1	-47.22	-539.9	-80.9	276.4	255.8	20.59	13.425		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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 Tooface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,000.0	4,987.7	5,077.1	4,977.2	10.4	17.3	-47.73	-546.2	-82.4	276.7	255.6	21.06	13.141		
5,100.0	5,087.4	5,183.2	5,083.1	10.7	17.4	-48.22	-551.3	-84.6	275.5	254.0	21.51	12.807		
5,200.0	5,187.1	5,287.9	5,187.8	10.9	17.5	-49.28	-553.0	-85.1	271.8	249.8	22.05	12.331		
5,300.0	5,286.8	5,388.4	5,288.3	11.1	17.6	-50.43	-553.8	-85.3	267.6	245.0	22.59	11.847		
5,400.0	5,386.5	5,488.8	5,388.8	11.3	17.7	-51.59	-554.4	-85.7	263.2	240.1	23.14	11.375		
5,500.0	5,486.2	5,589.2	5,489.2	11.5	17.8	-52.71	-554.9	-86.5	258.7	235.0	23.68	10.921		
5,600.0	5,585.9	5,688.9	5,588.8	11.8	17.9	-53.80	-555.4	-87.7	254.1	229.8	24.22	10.488		
5,700.0	5,685.6	5,788.4	5,688.3	12.0	18.1	-54.91	-556.0	-88.8	249.7	224.9	24.77	10.082		
5,800.0	5,785.3	5,888.5	5,788.4	12.2	18.2	-56.08	-556.6	-90.0	245.4	220.1	25.31	9.696		
5,900.0	5,885.0	5,988.6	5,888.5	12.4	18.3	-57.35	-557.0	-90.9	241.1	215.3	25.88	9.319		
6,000.0	5,984.8	6,089.2	5,989.1	12.6	18.4	-58.73	-557.0	-91.8	236.7	210.2	26.45	8.947		
6,100.0	6,084.5	6,189.7	6,089.6	12.9	18.5	-60.21	-556.6	-92.6	232.0	205.0	27.04	8.580		
6,200.0	6,184.2	6,289.8	6,189.7	13.1	18.5	-61.78	-555.9	-93.5	227.3	199.6	27.64	8.224		
6,300.0	6,283.9	6,389.9	6,289.8	13.3	18.6	-63.46	-555.0	-94.3	222.6	194.3	28.24	7.882		
6,400.0	6,383.6	6,490.5	6,390.3	13.5	18.7	-65.44	-553.3	-94.6	217.7	188.9	28.86	7.544		
6,500.0	6,483.3	6,590.6	6,490.4	13.7	18.8	-67.80	-550.8	-94.2	212.8	183.3	29.52	7.209		
6,600.0	6,583.0	6,690.3	6,590.1	14.0	18.8	-70.40	-547.7	-93.6	208.1	177.9	30.19	6.893		
6,700.0	6,682.7	6,790.8	6,690.5	14.2	18.9	-73.21	-544.3	-92.8	203.7	172.8	30.87	6.597		
6,800.0	6,782.4	6,892.1	6,791.8	14.4	18.9	-76.02	-540.7	-93.1	198.9	167.3	31.53	6.306		
6,900.0	6,882.1	6,993.4	6,893.0	14.6	19.0	-78.85	-536.6	-94.3	193.6	161.4	32.16	6.019		
7,000.0	6,981.8	7,094.7	6,994.1	14.8	19.1	-81.87	-531.8	-96.2	187.8	155.0	32.77	5.730		
7,062.7	7,044.5	7,157.8	7,057.1	14.9	19.1	176.60	-528.4	-97.7	185.9	152.9	32.93	5.645 SF		
7,100.0	7,081.6	7,195.2	7,094.4	15.0	19.1	150.40	-526.3	-98.5	186.1	153.2	32.95	5.648		
7,200.0	7,179.8	7,294.8	7,193.9	14.9	19.1	137.81	-520.0	-100.5	195.1	162.7	32.48	6.009		
7,300.0	7,273.2	7,389.9	7,288.7	14.8	19.2	138.35	-513.5	-101.9	216.3	185.0	31.35	6.901		
7,400.0	7,359.0	7,478.7	7,377.3	14.6	19.2	141.07	-507.0	-102.6	251.9	222.1	29.71	8.476		
7,500.0	7,434.6	7,558.5	7,456.8	14.4	19.2	143.36	-501.0	-102.6	302.5	274.7	27.88	10.850		
7,600.0	7,497.6	7,626.7	7,524.8	14.3	19.2	143.98	-495.9	-102.4	367.6	341.3	26.31	13.975		
7,700.0	7,546.0	7,675.0	7,573.0	14.3	19.2	141.03	-492.2	-102.1	445.1	419.3	25.78	17.268		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29XD (EXISTING) - SYNERGY WELL - PLAN												Offset Site Error:	0.0 ft
Survey Program:		0-MWD										Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	19.37	276.5	97.2	293.2				
100.0	100.0	90.0	90.0	0.2	0.2	19.37	276.5	97.2	293.0	292.7	0.31	948.542	
200.0	200.0	190.0	190.0	0.3	0.3	19.37	276.5	97.2	293.0	292.4	0.66	445.366	CC, ES
300.0	300.0	284.5	284.5	0.5	0.5	19.55	276.9	98.3	293.9	292.9	1.00	293.812	
400.0	400.0	378.2	378.0	0.7	0.7	20.19	278.4	102.4	296.8	295.5	1.35	219.242	
500.0	500.0	471.5	471.0	0.8	0.9	21.25	280.9	109.2	302.0	300.3	1.73	174.566	
600.0	600.0	564.1	563.1	1.0	1.1	172.35	284.4	118.9	310.3	308.2	2.08	149.030	
700.0	700.0	655.7	653.8	1.2	1.4	174.11	288.9	131.1	322.8	320.4	2.47	130.624	
800.0	799.9	746.0	742.7	1.4	1.7	176.08	294.4	145.9	339.7	336.8	2.87	118.287	
900.0	899.7	834.6	829.4	1.6	2.0	178.16	300.6	162.9	361.1	357.8	3.28	110.227	
1,000.0	999.4	927.2	919.6	1.8	2.4	-179.66	307.9	182.8	386.1	382.4	3.69	104.571	
1,100.0	1,099.1	1,022.8	1,012.6	2.0	2.8	-177.66	315.5	203.5	411.9	407.8	4.11	100.224	
1,200.0	1,198.8	1,118.5	1,105.7	2.2	3.2	-175.89	323.2	224.2	438.1	433.6	4.52	96.934	
1,300.0	1,298.5	1,214.2	1,198.8	2.4	3.7	-174.32	330.8	244.9	464.7	459.7	4.92	94.394	
1,400.0	1,398.2	1,309.8	1,291.9	2.6	4.1	-172.92	338.4	265.6	491.5	486.2	5.32	92.399	SF

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>													<b>Offset Site Error:</b>	0.0 ft
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 31-29D (EXISTING) - SYNERGY WELL - SU													<b>Offset Well Error:</b>	0.0 ft
Survey Program: 248-MWD														
Reference		Offset		Semi Major Axis			Distance							
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	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
11,800.0	7,595.0	7,821.7	7,633.0	73.6	27.8	-90.23	4,014.2	-802.2	489.1	392.7	96.44	5.072		
11,806.4	7,595.0	7,821.9	7,633.1	73.7	27.8	-90.25	4,014.2	-802.2	489.1	392.5	96.55	5.065 CC, ES, SF		
11,900.0	7,595.0	7,824.2	7,635.4	75.3	27.8	-90.52	4,014.2	-802.2	497.9	399.8	98.16	5.073		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.0 ft
S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 32-29D (EXISTING) - SYNERGY WELL - SU												<b>Offset Well Error:</b>	0.0 ft
Survey Program: 154-MWD													
Reference		Offset		Semi Major Axis			Distance						
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	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
10,300.0	7,595.0	7,743.5	7,629.2	48.0	20.9	-90.14	2,652.4	-775.6	498.1	435.9	62.16	8.012	
10,400.0	7,595.0	7,743.9	7,629.6	49.7	20.9	-90.19	2,652.4	-775.6	478.8	414.9	63.85	7.498	
10,444.4	7,595.0	7,744.1	7,629.7	50.5	20.9	-90.21	2,652.4	-775.6	476.7	412.1	64.60	7.379 CC, ES	
10,500.0	7,595.0	7,744.3	7,630.0	51.4	20.9	-90.24	2,652.4	-775.6	479.9	414.4	65.54	7.322 SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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			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	3.0	3.0	0.0	0.0	-1.84	339.9	-10.9	340.1						
100.0	100.0	102.5	102.5	0.2	0.2	-1.84	340.0	-10.9	340.1	339.8	0.31	1,088.510 ES			
200.0	200.0	199.4	199.4	0.3	0.3	-1.87	340.4	-11.1	340.6	340.0	0.65	522.686			
300.0	300.0	299.2	299.2	0.5	0.5	-2.01	341.6	-12.0	341.8	340.8	1.00	341.679			
400.0	400.0	400.3	400.3	0.7	0.7	-2.23	342.5	-13.3	342.8	341.4	1.35	253.609			
500.0	500.0	498.1	498.0	0.8	0.9	-2.51	343.5	-15.1	343.9	342.2	1.70	202.593			
600.0	600.0	597.9	597.8	1.0	1.0	146.62	344.8	-18.8	346.1	344.1	2.06	168.045			
700.0	700.0	698.3	698.1	1.2	1.2	145.99	345.9	-24.0	349.7	347.3	2.42	144.205			
800.0	799.9	795.2	794.8	1.4	1.4	145.44	347.3	-29.7	355.1	352.3	2.79	127.393			
900.0	899.7	890.5	889.9	1.6	1.6	145.19	349.7	-34.5	363.1	359.9	3.15	115.433			
1,000.0	999.4	985.4	984.7	1.8	1.8	145.18	353.3	-38.8	373.4	369.9	3.51	106.529			
1,100.0	1,099.1	1,079.5	1,078.5	2.0	2.0	145.22	358.0	-43.0	385.1	381.2	3.87	99.622			
1,200.0	1,198.8	1,170.9	1,169.6	2.2	2.2	145.27	364.1	-47.2	398.3	394.1	4.22	94.299			
1,300.0	1,298.5	1,258.8	1,256.9	2.4	2.4	145.05	372.0	-53.1	414.0	409.4	4.59	90.193			
1,400.0	1,398.2	1,345.9	1,343.1	2.6	2.7	144.63	381.9	-60.9	432.3	427.4	4.96	87.108			
1,500.0	1,497.9	1,429.0	1,425.0	2.8	2.9	144.10	393.3	-69.6	453.1	447.7	5.34	84.916			
1,600.0	1,597.6	1,522.0	1,516.1	3.0	3.2	143.34	407.8	-81.2	476.0	470.3	5.74	82.862			
9,000.0	7,595.0	7,765.3	7,599.0	27.1	26.0	-90.12	1,341.3	-765.6	498.6	449.5	49.08	10.158			
9,100.0	7,595.0	7,766.6	7,600.3	28.6	26.0	-90.28	1,341.3	-765.6	481.6	431.0	50.61	9.515			
9,133.3	7,595.0	7,767.0	7,600.8	29.1	26.0	-90.33	1,341.3	-765.6	480.4	429.3	51.13	9.396			
9,200.0	7,595.0	7,767.9	7,601.6	30.2	26.0	-90.43	1,341.3	-765.6	485.0	432.9	52.17	9.298 SF			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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	4.06	319.9	22.7	320.8						
100.0	100.0	90.8	90.8	0.2	0.2	4.15	319.7	23.2	320.5	320.2	0.31	1,021.609			
200.0	200.0	191.7	191.7	0.3	0.3	4.47	319.2	24.9	320.1	319.5	0.67	479.262			
300.0	300.0	294.5	294.5	0.5	0.5	4.82	318.1	26.8	319.3	318.2	1.02	313.037			
400.0	400.0	393.3	393.2	0.7	0.7	4.69	316.9	26.0	317.9	316.6	1.36	233.299			
500.0	500.0	494.1	494.0	0.8	0.9	4.22	316.0	23.3	316.8	315.1	1.71	185.005			
600.0	600.0	596.1	595.9	1.0	1.0	153.27	314.6	19.4	316.0	314.0	2.07	152.924			
612.3	612.3	608.1	607.9	1.0	1.1	153.20	314.4	18.9	316.0	313.9	2.11	149.796 CC, ES			
700.0	700.0	693.6	693.4	1.2	1.2	152.82	313.4	15.7	316.9	314.5	2.41	131.235			
800.0	799.9	793.1	792.8	1.4	1.4	152.76	312.5	13.4	319.8	317.1	2.77	115.622			
900.0	899.7	891.6	891.3	1.6	1.6	152.92	311.9	11.6	324.6	321.5	3.12	104.146			
1,000.0	999.4	991.8	991.4	1.8	1.8	153.18	311.5	9.7	330.9	327.4	3.47	95.241			
1,100.0	1,099.1	1,092.0	1,091.6	2.0	1.9	153.39	310.9	7.4	336.9	333.1	3.83	87.913			
1,200.0	1,198.8	1,191.6	1,191.2	2.2	2.1	153.59	310.4	5.2	343.1	338.9	4.19	81.869			
1,300.0	1,298.5	1,291.5	1,291.1	2.4	2.3	153.77	309.8	2.8	349.2	344.6	4.55	76.734			
1,400.0	1,398.2	1,392.4	1,391.9	2.6	2.5	153.95	309.2	0.5	355.3	350.3	4.91	72.345			
1,500.0	1,497.9	1,498.8	1,498.3	2.8	2.7	154.16	307.5	-2.0	360.4	355.1	5.29	68.184			
1,600.0	1,597.6	1,603.8	1,603.1	3.0	2.9	153.78	304.1	-8.1	363.6	357.9	5.67	64.090			
1,700.0	1,697.3	1,710.2	1,708.9	3.2	3.1	152.79	299.3	-18.4	365.4	359.3	6.09	60.017			
1,800.0	1,797.0	1,813.1	1,810.7	3.5	3.4	151.31	293.6	-31.8	365.9	359.4	6.53	56.070			
1,900.0	1,896.7	1,917.4	1,913.5	3.7	3.7	149.45	286.7	-47.6	365.7	358.7	7.00	52.251			
2,000.0	1,996.5	2,022.4	2,016.7	3.9	4.0	147.32	278.0	-65.1	364.2	356.7	7.51	48.492			
2,100.0	2,096.2	2,122.8	2,114.9	4.1	4.3	144.95	268.7	-83.9	362.4	354.4	8.06	44.978			
2,200.0	2,195.9	2,220.5	2,209.8	4.3	4.7	142.13	259.3	-105.1	361.1	352.5	8.66	41.717			
2,229.5	2,225.3	2,248.4	2,236.8	4.4	4.8	141.24	256.6	-111.7	361.0	352.2	8.84	40.843			
2,300.0	2,295.6	2,319.3	2,305.2	4.5	5.1	138.90	249.9	-129.0	361.3	352.0	9.31	38.826			
2,400.0	2,395.3	2,421.0	2,403.3	4.8	5.6	135.56	239.1	-153.4	361.5	351.6	9.99	36.185			
2,500.0	2,495.0	2,521.6	2,500.3	5.0	6.0	132.26	227.6	-177.5	362.3	351.6	10.69	33.890			
2,600.0	2,594.7	2,617.8	2,593.2	5.2	6.4	129.17	216.4	-200.0	363.8	352.4	11.37	32.000			
2,700.0	2,694.4	2,712.1	2,684.4	5.4	6.9	126.29	206.5	-221.8	367.3	355.3	12.03	30.536			
2,800.0	2,794.1	2,809.0	2,778.1	5.6	7.3	123.40	197.0	-244.5	372.6	359.9	12.72	29.295			
2,900.0	2,893.8	2,907.9	2,873.4	5.9	7.8	120.32	186.7	-268.9	378.9	365.5	13.42	28.241			
3,000.0	2,993.5	3,005.1	2,967.1	6.1	8.3	117.40	176.3	-292.7	386.0	371.9	14.10	27.373			
3,100.0	3,093.2	3,098.1	3,056.5	6.3	8.7	114.62	166.6	-316.3	394.8	380.1	14.76	26.754			
3,200.0	3,192.9	3,171.1	3,127.9	6.5	8.7	113.68	165.6	-329.8	407.8	392.8	14.94	27.287			
3,300.0	3,292.7	3,288.5	3,243.2	6.7	9.1	115.62	182.7	-334.5	425.9	410.4	15.46	27.539			
3,400.0	3,392.4	3,406.4	3,357.4	6.9	9.6	112.90	172.7	-362.2	435.7	419.5	16.17	26.940			
3,500.0	3,492.1	3,502.4	3,450.2	7.2	10.1	110.67	163.1	-384.7	445.0	428.3	16.79	26.508			
3,600.0	3,591.8	3,603.6	3,547.6	7.4	10.6	108.23	151.9	-409.5	455.1	437.7	17.42	26.119			
3,700.0	3,691.5	3,708.7	3,649.3	7.6	11.0	105.96	139.8	-433.2	464.2	446.2	18.03	25.743			
3,800.0	3,791.2	3,803.9	3,741.4	7.8	11.5	103.98	128.8	-454.7	473.9	455.3	18.60	25.474			
3,900.0	3,890.9	3,897.0	3,831.2	8.0	11.9	102.01	117.7	-476.6	484.7	465.6	19.16	25.299			
4,000.0	3,990.6	3,983.3	3,914.3	8.3	12.4	100.28	108.7	-498.1	498.1	478.4	19.67	25.322			
7,600.0	7,497.6	7,602.9	7,510.8	14.3	18.9	-75.15	48.1	-688.9	475.5	447.6	27.99	16.992			
7,700.0	7,546.0	7,650.7	7,558.6	14.3	18.9	-85.01	48.2	-686.2	437.6	409.9	27.70	15.801			
7,800.0	7,578.4	7,682.4	7,590.3	14.4	19.0	-91.54	48.4	-684.4	415.8	388.1	27.70	15.013			
7,845.4	7,587.5	7,691.4	7,599.3	14.5	19.0	-93.05	48.4	-684.0	413.3	385.4	27.84	14.846 SF			
7,900.0	7,593.8	7,697.6	7,605.4	14.8	19.0	-93.55	48.4	-683.6	417.0	389.0	28.06	14.862			
8,000.0	7,595.0	7,699.1	7,606.9	15.3	19.0	-93.05	48.4	-683.6	442.6	413.9	28.68	15.434			
8,100.0	7,595.0	7,699.4	7,607.2	16.0	19.0	-93.09	48.4	-683.5	487.8	458.4	29.43	16.576			

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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										
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	4.0	4.0	0.0	0.0	7.30	310.4	39.8	312.9								
100.0	100.0	103.8	103.8	0.2	0.2	7.36	310.4	40.1	312.9	312.6	0.32	969.263					
200.0	200.0	203.5	203.5	0.3	0.3	7.52	310.4	41.0	313.1	312.4	0.66	473.008	ES				
300.0	300.0	299.1	299.1	0.5	0.5	7.78	310.9	42.5	313.9	312.8	1.01	311.974					
400.0	400.0	390.1	390.0	0.7	0.7	8.15	313.3	44.8	316.8	315.5	1.35	234.625					
500.0	500.0	482.3	482.0	0.8	0.9	8.62	318.1	48.2	322.4	320.7	1.71	189.077					
600.0	600.0	571.5	570.8	1.0	1.1	158.81	325.0	52.2	331.6	329.6	2.02	163.982					
700.0	700.0	657.5	656.1	1.2	1.3	159.47	334.5	57.2	345.9	343.6	2.36	146.836					
800.0	799.9	743.6	741.1	1.4	1.6	160.26	346.9	63.5	365.6	362.9	2.69	135.838					
900.0	899.7	828.5	824.5	1.6	1.9	161.15	361.6	70.9	390.0	387.0	3.03	128.822					
1,000.0	999.4	915.0	908.7	1.8	2.2	162.22	378.8	80.2	418.6	415.2	3.37	124.302					
1,100.0	1,099.1	1,007.7	998.7	2.0	2.6	163.35	398.2	91.1	448.8	445.1	3.72	120.621					
1,200.0	1,198.8	1,095.1	1,083.4	2.2	3.0	164.40	416.6	102.2	479.5	475.5	4.06	118.046	SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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						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	27.20	256.1	131.6	288.1					
100.0	100.0	92.0	92.0	0.2	0.2	27.20	256.1	131.6	288.0	287.7	0.31	921.728		
200.0	200.0	192.0	192.0	0.3	0.3	27.20	256.1	131.6	288.0	287.3	0.66	435.350		
300.0	300.0	292.0	292.0	0.5	0.5	27.20	256.1	131.6	288.0	287.0	1.01	284.970		
400.0	400.0	392.0	392.0	0.7	0.7	27.20	256.1	131.6	288.0	286.6	1.36	211.807		
500.0	500.0	492.0	492.0	0.8	0.9	27.20	256.1	131.6	288.0	286.3	1.71	168.537 CC, ES		
600.0	600.0	592.0	592.0	1.0	1.0	176.88	256.1	131.6	288.9	286.8	2.06	140.389		
700.0	700.0	692.0	692.0	1.2	1.2	176.90	256.1	131.6	291.5	289.1	2.41	121.161		
800.0	799.9	791.9	791.9	1.4	1.4	176.95	256.1	131.6	295.9	293.1	2.75	107.461		
900.0	899.7	891.7	891.7	1.6	1.6	177.01	256.1	131.6	302.1	299.0	3.10	97.427		
1,000.0	999.4	991.4	991.4	1.8	1.7	177.08	256.1	131.6	309.6	306.1	3.45	89.787		
1,100.0	1,099.1	1,092.5	1,092.4	2.0	1.9	177.42	255.3	132.9	317.0	313.2	3.80	83.433		
1,200.0	1,198.8	1,193.5	1,193.3	2.2	2.1	178.36	252.3	137.0	324.0	319.9	4.16	77.954		
1,300.0	1,298.5	1,294.1	1,293.6	2.4	2.3	179.88	247.4	143.9	330.8	326.3	4.53	73.075		
1,400.0	1,398.2	1,394.0	1,392.7	2.6	2.5	-178.09	240.5	153.7	337.6	332.7	4.92	68.615		
1,500.0	1,497.9	1,493.0	1,490.6	2.8	2.8	-175.59	231.6	166.2	344.7	339.4	5.35	64.484		
1,600.0	1,597.6	1,591.0	1,586.9	3.0	3.0	-172.71	221.1	181.0	352.6	346.8	5.80	60.763		
1,700.0	1,697.3	1,689.0	1,683.0	3.2	3.3	-169.85	210.1	196.5	361.4	355.1	6.28	57.554		
1,800.0	1,797.0	1,787.0	1,779.1	3.5	3.6	-167.12	199.2	211.9	371.1	364.3	6.77	54.828		
1,900.0	1,896.7	1,884.9	1,875.2	3.7	4.0	-164.53	188.2	227.4	381.6	374.4	7.27	52.520		
2,000.0	1,996.5	1,982.9	1,971.3	3.9	4.3	-162.09	177.3	242.8	392.9	385.1	7.77	50.573		
2,100.0	2,096.2	2,080.8	2,067.5	4.1	4.6	-159.78	166.3	258.2	404.8	396.6	8.27	48.931		
2,200.0	2,195.9	2,178.8	2,163.6	4.3	5.0	-157.60	155.4	273.7	417.4	408.6	8.78	47.547		
2,300.0	2,295.6	2,276.7	2,259.7	4.5	5.3	-155.55	144.4	289.1	430.6	421.3	9.28	46.378		
2,400.0	2,395.3	2,374.7	2,355.8	4.8	5.7	-153.62	133.5	304.6	444.2	434.4	9.79	45.392		
2,500.0	2,495.0	2,472.7	2,451.9	5.0	6.0	-151.81	122.5	320.0	458.4	448.1	10.29	44.558		
2,600.0	2,594.7	2,570.6	2,548.0	5.2	6.4	-150.10	111.6	335.4	473.0	462.2	10.78	43.854		
2,700.0	2,694.4	2,668.6	2,644.1	5.4	6.8	-148.50	100.6	350.9	487.9	476.6	11.28	43.258 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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						
16,100.0	7,595.0	7,592.0	7,592.0	148.3	13.3	90.00	8,628.6	-12.9	468.0	306.5	161.48	2.898						
16,200.0	7,595.0	7,592.0	7,592.0	150.1	13.3	90.00	8,628.6	-12.9	408.1	244.9	163.23	2.500						
16,300.0	7,595.0	7,592.0	7,592.0	151.8	13.3	90.00	8,628.6	-12.9	366.2	201.2	164.97	2.220						
16,400.0	7,595.0	7,592.0	7,592.0	153.5	13.3	90.00	8,628.6	-12.9	348.8	182.0	166.72	2.092						
16,412.3	7,595.0	7,592.0	7,592.0	153.8	13.3	90.00	8,628.6	-12.9	348.6	181.6	166.94	2.088	CC, ES, SF					
16,500.0	7,595.0	7,592.0	7,592.0	155.3	13.3	90.00	8,628.6	-12.9	359.4	190.9	168.47	2.133						
16,600.0	7,595.0	7,592.0	7,592.0	157.0	13.3	90.00	8,628.6	-12.9	395.9	225.7	170.22	2.326						
16,657.5	7,595.0	7,592.0	7,592.0	158.0	13.3	90.00	8,628.6	-12.9	426.2	254.9	171.22	2.489						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<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		
16,200.0	7,595.0	9,153.3	7,710.8	150.1	36.5	-140.83	8,828.3	-469.3	449.2	338.7	110.50	4.065		
16,300.0	7,595.0	9,128.5	7,710.7	151.8	35.9	-147.77	8,834.7	-445.4	357.5	260.6	96.90	3.689		
16,400.0	7,595.0	9,103.4	7,710.4	153.5	35.4	-156.06	8,841.2	-421.1	269.4	190.2	79.21	3.401		
16,500.0	7,595.0	9,078.0	7,710.0	155.3	34.8	-165.69	8,847.8	-396.7	190.0	131.7	58.34	3.257		
16,600.0	7,595.0	9,052.7	7,709.5	157.0	34.2	-176.25	8,854.5	-372.2	135.5	94.4	41.05	3.300		
16,644.9	7,595.0	9,041.2	7,709.3	157.8	34.0	178.81	8,857.5	-361.2	128.3	88.7	39.66	3.236 CC		
16,657.5	7,595.0	9,037.9	7,709.2	158.0	33.9	177.40	8,858.4	-358.0	128.9	88.5	40.41	3.190 ES, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4D-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	WELL @ 5189.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4D-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 #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5189.0ft (Original Well Elev)

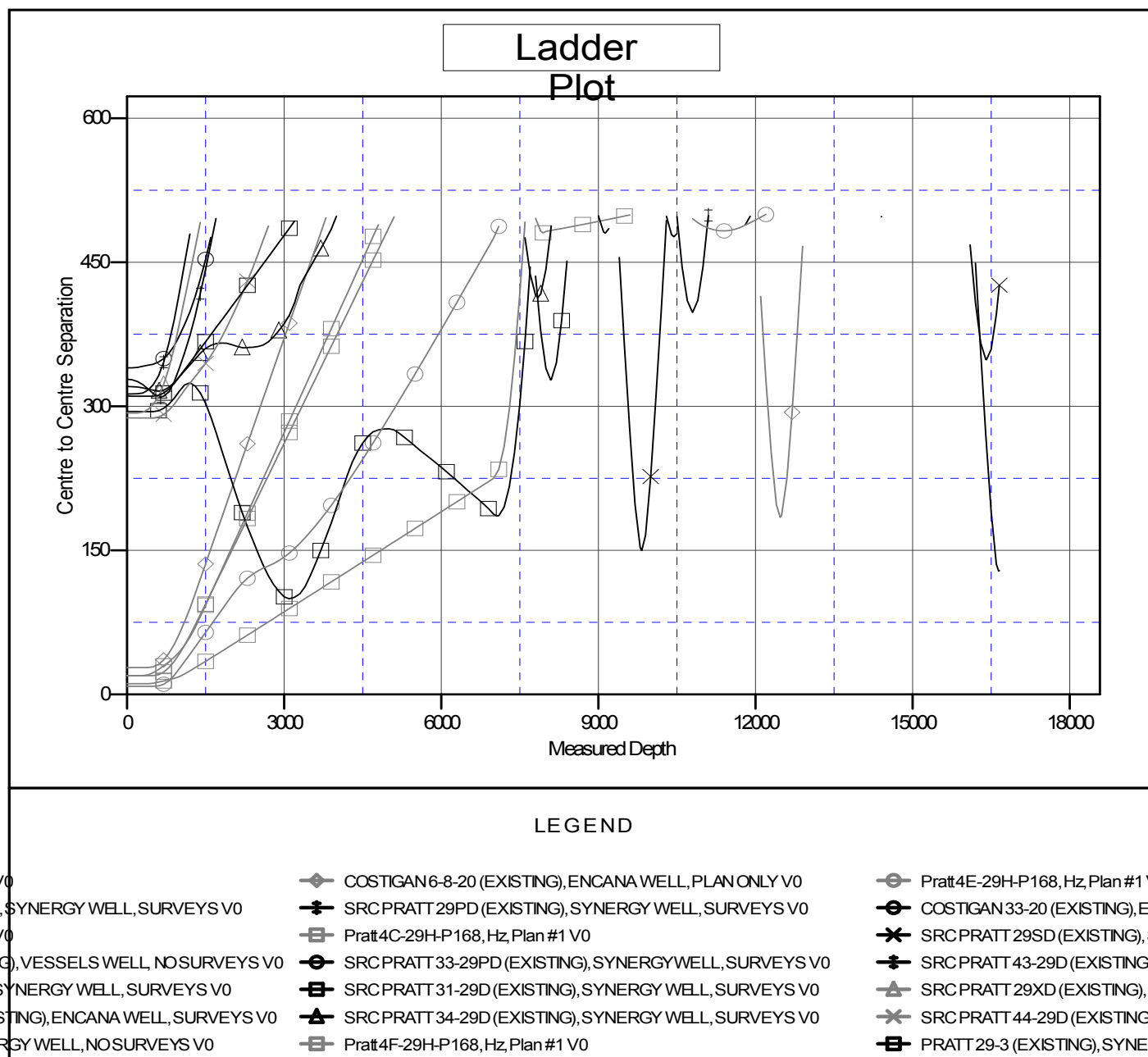
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Pratt 4D-29H-P168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



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