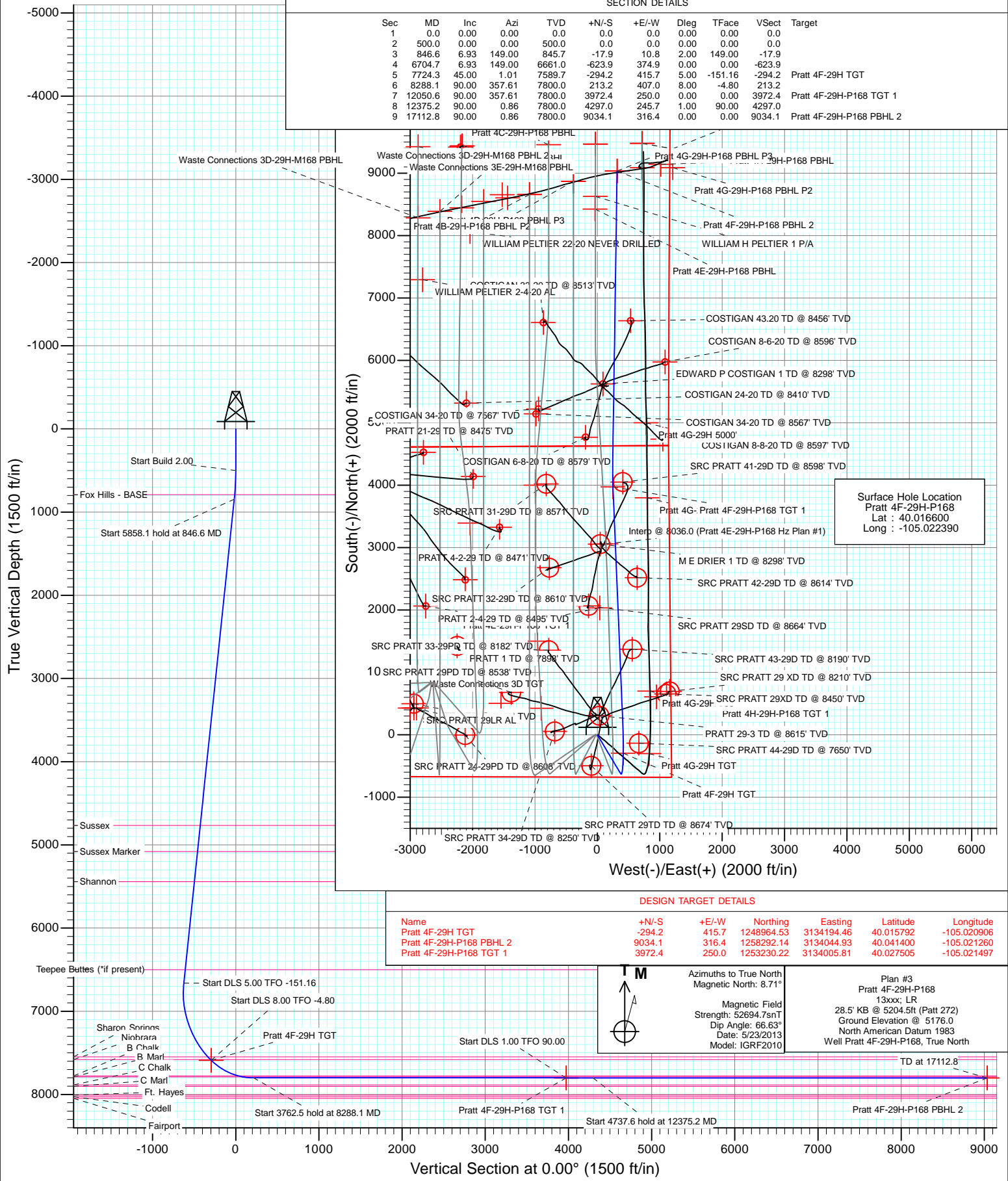




Project: DJ Wattenberg  
Site: S29-T1N-R68W (Pratt/Waste Connections)  
Well: Pratt 4F-29H-P168  
Wellbore: Hz  
Design: Plan #3



## Planning Report

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

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

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

<b>Well</b>	Pratt 4F-29H-P168			
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,249,256.48 ft
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,133,777.21 ft
<b>Position Uncertainty</b>	0.0 ft		<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	5,176.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	5/23/2013	8.71	66.63	52,695

<b>Design</b>	Plan #3			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	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	
846.6	6.93	149.00	845.7	-17.9	10.8	2.00	2.00	0.00	149.00	
6,704.7	6.93	149.00	6,661.0	-623.9	374.9	0.00	0.00	0.00	0.00	
7,724.3	45.00	1.01	7,589.7	-294.2	415.7	5.00	3.73	-14.51	-151.16	Pratt 4F-29H TGT
8,288.1	90.00	357.61	7,800.0	213.2	407.0	8.00	7.98	-0.60	-4.80	
12,050.6	90.00	357.61	7,800.0	3,972.4	250.0	0.00	0.00	0.00	0.00	Pratt 4F-29H-P168 TC
12,375.2	90.00	0.86	7,800.0	4,297.0	245.7	1.00	0.00	1.00	90.00	
17,112.8	90.00	0.86	7,800.0	9,034.1	316.4	0.00	0.00	0.00	0.00	Pratt 4F-29H-P168 Pf

# Planning Report

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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	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	Start Build 2.00
600.0	2.00	149.00	600.0	-1.5	0.9	-1.5	2.00	2.00	
700.0	4.00	149.00	699.8	-6.0	3.6	-6.0	2.00	2.00	
789.5	5.79	149.00	789.0	-12.5	7.5	-12.5	2.00	2.00	Fox Hills - BASE
800.0	6.00	149.00	799.5	-13.5	8.1	-13.5	2.00	2.00	
846.6	6.93	149.00	845.7	-17.9	10.8	-17.9	2.00	2.00	Start 5858.1 hold at 846.6 MD
900.0	6.93	149.00	898.8	-23.5	14.1	-23.5	0.00	0.00	
1,000.0	6.93	149.00	998.0	-33.8	20.3	-33.8	0.00	0.00	
1,100.0	6.93	149.00	1,097.3	-44.2	26.5	-44.2	0.00	0.00	
1,200.0	6.93	149.00	1,196.6	-54.5	32.8	-54.5	0.00	0.00	
1,300.0	6.93	149.00	1,295.8	-64.9	39.0	-64.9	0.00	0.00	
1,400.0	6.93	149.00	1,395.1	-75.2	45.2	-75.2	0.00	0.00	
1,500.0	6.93	149.00	1,494.4	-85.5	51.4	-85.5	0.00	0.00	
1,600.0	6.93	149.00	1,593.6	-95.9	57.6	-95.9	0.00	0.00	
1,700.0	6.93	149.00	1,692.9	-106.2	63.8	-106.2	0.00	0.00	
1,800.0	6.93	149.00	1,792.2	-116.6	70.0	-116.6	0.00	0.00	
1,900.0	6.93	149.00	1,891.5	-126.9	76.3	-126.9	0.00	0.00	
2,000.0	6.93	149.00	1,990.7	-137.3	82.5	-137.3	0.00	0.00	
2,100.0	6.93	149.00	2,090.0	-147.6	88.7	-147.6	0.00	0.00	
2,200.0	6.93	149.00	2,189.3	-158.0	94.9	-158.0	0.00	0.00	
2,300.0	6.93	149.00	2,288.5	-168.3	101.1	-168.3	0.00	0.00	
2,400.0	6.93	149.00	2,387.8	-178.6	107.3	-178.6	0.00	0.00	
2,500.0	6.93	149.00	2,487.1	-189.0	113.6	-189.0	0.00	0.00	
2,600.0	6.93	149.00	2,586.3	-199.3	119.8	-199.3	0.00	0.00	
2,700.0	6.93	149.00	2,685.6	-209.7	126.0	-209.7	0.00	0.00	
2,800.0	6.93	149.00	2,784.9	-220.0	132.2	-220.0	0.00	0.00	
2,900.0	6.93	149.00	2,884.1	-230.4	138.4	-230.4	0.00	0.00	
3,000.0	6.93	149.00	2,983.4	-240.7	144.6	-240.7	0.00	0.00	
3,100.0	6.93	149.00	3,082.7	-251.1	150.8	-251.1	0.00	0.00	
3,200.0	6.93	149.00	3,182.0	-261.4	157.1	-261.4	0.00	0.00	
3,300.0	6.93	149.00	3,281.2	-271.7	163.3	-271.7	0.00	0.00	
3,400.0	6.93	149.00	3,380.5	-282.1	169.5	-282.1	0.00	0.00	
3,500.0	6.93	149.00	3,479.8	-292.4	175.7	-292.4	0.00	0.00	
3,600.0	6.93	149.00	3,579.0	-302.8	181.9	-302.8	0.00	0.00	
3,700.0	6.93	149.00	3,678.3	-313.1	188.1	-313.1	0.00	0.00	
3,800.0	6.93	149.00	3,777.6	-323.5	194.4	-323.5	0.00	0.00	
3,900.0	6.93	149.00	3,876.8	-333.8	200.6	-333.8	0.00	0.00	
4,000.0	6.93	149.00	3,976.1	-344.2	206.8	-344.2	0.00	0.00	
4,100.0	6.93	149.00	4,075.4	-354.5	213.0	-354.5	0.00	0.00	
4,200.0	6.93	149.00	4,174.6	-364.8	219.2	-364.8	0.00	0.00	
4,300.0	6.93	149.00	4,273.9	-375.2	225.4	-375.2	0.00	0.00	
4,400.0	6.93	149.00	4,373.2	-385.5	231.7	-385.5	0.00	0.00	
4,500.0	6.93	149.00	4,472.5	-395.9	237.9	-395.9	0.00	0.00	
4,600.0	6.93	149.00	4,571.7	-406.2	244.1	-406.2	0.00	0.00	
4,700.0	6.93	149.00	4,671.0	-416.6	250.3	-416.6	0.00	0.00	
4,795.7	6.93	149.00	4,766.0	-426.5	256.2	-426.5	0.00	0.00	Sussex
4,800.0	6.93	149.00	4,770.3	-426.9	256.5	-426.9	0.00	0.00	

# Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,900.0	6.93	149.00	4,869.5	-437.3	262.7	-437.3	0.00	0.00	
5,000.0	6.93	149.00	4,968.8	-447.6	268.9	-447.6	0.00	0.00	
5,100.0	6.93	149.00	5,068.1	-457.9	275.2	-457.9	0.00	0.00	
5,111.0	6.93	149.00	5,079.0	-459.1	275.8	-459.1	0.00	0.00	Sussex Marker
5,200.0	6.93	149.00	5,167.3	-468.3	281.4	-468.3	0.00	0.00	
5,300.0	6.93	149.00	5,266.6	-478.6	287.6	-478.6	0.00	0.00	
5,400.0	6.93	149.00	5,365.9	-489.0	293.8	-489.0	0.00	0.00	
5,477.7	6.93	149.00	5,443.0	-497.0	298.6	-497.0	0.00	0.00	Shannon
5,500.0	6.93	149.00	5,465.1	-499.3	300.0	-499.3	0.00	0.00	
5,600.0	6.93	149.00	5,564.4	-509.7	306.2	-509.7	0.00	0.00	
5,700.0	6.93	149.00	5,663.7	-520.0	312.5	-520.0	0.00	0.00	
5,800.0	6.93	149.00	5,763.0	-530.4	318.7	-530.4	0.00	0.00	
5,900.0	6.93	149.00	5,862.2	-540.7	324.9	-540.7	0.00	0.00	
6,000.0	6.93	149.00	5,961.5	-551.0	331.1	-551.0	0.00	0.00	
6,100.0	6.93	149.00	6,060.8	-561.4	337.3	-561.4	0.00	0.00	
6,200.0	6.93	149.00	6,160.0	-571.7	343.5	-571.7	0.00	0.00	
6,300.0	6.93	149.00	6,259.3	-582.1	349.7	-582.1	0.00	0.00	
6,400.0	6.93	149.00	6,358.6	-592.4	356.0	-592.4	0.00	0.00	
6,500.0	6.93	149.00	6,457.8	-602.8	362.2	-602.8	0.00	0.00	
6,542.5	6.93	149.00	6,500.0	-607.2	364.8	-607.2	0.00	0.00	Teepee Buttes (*if present)
6,600.0	6.93	149.00	6,557.1	-613.1	368.4	-613.1	0.00	0.00	
6,700.0	6.93	149.00	6,656.4	-623.5	374.6	-623.5	0.00	0.00	
6,704.7	6.93	149.00	6,661.0	-623.9	374.9	-623.9	0.00	0.00	Start DLS 5.00 TFO -151.16
6,800.0	3.59	109.16	6,756.0	-629.8	380.7	-629.8	5.00	-3.51	
6,900.0	4.97	39.76	6,855.7	-627.5	386.4	-627.5	5.00	1.39	
7,000.0	9.30	18.53	6,954.9	-616.5	391.8	-616.5	5.00	4.33	
7,100.0	14.08	11.11	7,052.8	-596.9	396.7	-596.9	5.00	4.78	
7,200.0	18.97	7.43	7,148.7	-568.9	401.1	-568.9	5.00	4.89	
7,300.0	23.91	5.23	7,241.7	-532.5	405.1	-532.5	5.00	4.94	
7,400.0	28.86	3.74	7,331.3	-488.2	408.5	-488.2	5.00	4.96	
7,500.0	33.83	2.66	7,416.7	-436.3	411.4	-436.3	5.00	4.97	
7,600.0	38.81	1.83	7,497.2	-377.2	413.7	-377.2	5.00	4.98	
7,665.4	42.07	1.37	7,547.0	-334.8	414.8	-334.8	5.00	4.98	Sharon Springs
7,700.0	43.79	1.15	7,572.3	-311.2	415.3	-311.2	5.00	4.98	
7,710.7	44.32	1.09	7,580.0	-303.8	415.5	-303.8	5.00	4.98	Niobrara
7,724.3	45.00	1.01	7,589.7	-294.2	415.7	-294.2	5.00	4.98	Start DLS 8.00 TFO -4.80
7,800.0	51.04	0.36	7,640.3	-238.0	416.3	-238.0	8.00	7.97	
7,900.0	59.01	359.65	7,697.6	-156.1	416.3	-156.1	8.00	7.98	
8,000.0	67.00	359.05	7,742.9	-67.1	415.3	-67.1	8.00	7.98	
8,100.0	74.98	358.52	7,775.5	27.4	413.3	27.4	8.00	7.98	
8,102.0	75.14	358.51	7,776.0	29.3	413.2	29.3	8.00	7.98	B Chalk
8,156.7	79.51	358.24	7,788.0	82.7	411.7	82.7	8.00	7.99	B Marl
8,200.0	82.97	358.03	7,794.6	125.4	410.3	125.4	8.00	7.99	
8,288.1	90.00	357.61	7,800.0	213.2	407.0	213.2	8.00	7.99	Start 3762.5 hold at 8288.1 MD
8,300.0	90.00	357.61	7,800.0	225.1	406.5	225.1	0.00	0.00	
8,400.0	90.00	357.61	7,800.0	325.0	402.3	325.0	0.00	0.00	
8,500.0	90.00	357.61	7,800.0	424.9	398.1	424.9	0.00	0.00	
8,600.0	90.00	357.61	7,800.0	524.9	394.0	524.9	0.00	0.00	
8,700.0	90.00	357.61	7,800.0	624.8	389.8	624.8	0.00	0.00	
8,800.0	90.00	357.61	7,800.0	724.7	385.6	724.7	0.00	0.00	
8,900.0	90.00	357.61	7,800.0	824.6	381.4	824.6	0.00	0.00	
9,000.0	90.00	357.61	7,800.0	924.5	377.3	924.5	0.00	0.00	

# Planning Report

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

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,100.0	90.00	357.61	7,800.0	1,024.4	373.1	1,024.4	0.00	0.00	
9,200.0	90.00	357.61	7,800.0	1,124.3	368.9	1,124.3	0.00	0.00	
9,300.0	90.00	357.61	7,800.0	1,224.3	364.8	1,224.3	0.00	0.00	
9,400.0	90.00	357.61	7,800.0	1,324.2	360.6	1,324.2	0.00	0.00	
9,500.0	90.00	357.61	7,800.0	1,424.1	356.4	1,424.1	0.00	0.00	
9,600.0	90.00	357.61	7,800.0	1,524.0	352.2	1,524.0	0.00	0.00	
9,700.0	90.00	357.61	7,800.0	1,623.9	348.1	1,623.9	0.00	0.00	
9,800.0	90.00	357.61	7,800.0	1,723.8	343.9	1,723.8	0.00	0.00	
9,900.0	90.00	357.61	7,800.0	1,823.7	339.7	1,823.7	0.00	0.00	
10,000.0	90.00	357.61	7,800.0	1,923.6	335.5	1,923.6	0.00	0.00	
10,100.0	90.00	357.61	7,800.0	2,023.6	331.4	2,023.6	0.00	0.00	
10,200.0	90.00	357.61	7,800.0	2,123.5	327.2	2,123.5	0.00	0.00	
10,300.0	90.00	357.61	7,800.0	2,223.4	323.0	2,223.4	0.00	0.00	
10,400.0	90.00	357.61	7,800.0	2,323.3	318.9	2,323.3	0.00	0.00	
10,500.0	90.00	357.61	7,800.0	2,423.2	314.7	2,423.2	0.00	0.00	
10,600.0	90.00	357.61	7,800.0	2,523.1	310.5	2,523.1	0.00	0.00	
10,700.0	90.00	357.61	7,800.0	2,623.0	306.3	2,623.0	0.00	0.00	
10,800.0	90.00	357.61	7,800.0	2,722.9	302.2	2,722.9	0.00	0.00	
10,900.0	90.00	357.61	7,800.0	2,822.9	298.0	2,822.9	0.00	0.00	
11,000.0	90.00	357.61	7,800.0	2,922.8	293.8	2,922.8	0.00	0.00	
11,100.0	90.00	357.61	7,800.0	3,022.7	289.7	3,022.7	0.00	0.00	
11,200.0	90.00	357.61	7,800.0	3,122.6	285.5	3,122.6	0.00	0.00	
11,300.0	90.00	357.61	7,800.0	3,222.5	281.3	3,222.5	0.00	0.00	
11,400.0	90.00	357.61	7,800.0	3,322.4	277.1	3,322.4	0.00	0.00	
11,500.0	90.00	357.61	7,800.0	3,422.3	273.0	3,422.3	0.00	0.00	
11,600.0	90.00	357.61	7,800.0	3,522.2	268.8	3,522.2	0.00	0.00	
11,700.0	90.00	357.61	7,800.0	3,622.2	264.6	3,622.2	0.00	0.00	
11,800.0	90.00	357.61	7,800.0	3,722.1	260.5	3,722.1	0.00	0.00	
11,900.0	90.00	357.61	7,800.0	3,822.0	256.3	3,822.0	0.00	0.00	
12,000.0	90.00	357.61	7,800.0	3,921.9	252.1	3,921.9	0.00	0.00	
12,050.6	90.00	357.61	7,800.0	3,972.4	250.0	3,972.4	0.00	0.00	Start DLS 1.00 TFO 90.00
12,100.0	90.00	358.10	7,800.0	4,021.8	248.2	4,021.8	1.00	0.00	
12,200.0	90.00	359.10	7,800.0	4,121.8	245.7	4,121.8	1.00	0.00	
12,300.0	90.00	0.10	7,800.0	4,221.8	245.0	4,221.8	1.00	0.00	
12,375.2	90.00	0.86	7,800.0	4,297.0	245.7	4,297.0	1.00	0.00	Start 4737.6 hold at 12375.2 MD
12,400.0	90.00	0.86	7,800.0	4,321.8	246.0	4,321.8	0.00	0.00	
12,500.0	90.00	0.86	7,800.0	4,421.8	247.5	4,421.8	0.00	0.00	
12,600.0	90.00	0.86	7,800.0	4,521.8	249.0	4,521.8	0.00	0.00	
12,700.0	90.00	0.86	7,800.0	4,621.7	250.5	4,621.7	0.00	0.00	
12,800.0	90.00	0.86	7,800.0	4,721.7	252.0	4,721.7	0.00	0.00	
12,900.0	90.00	0.86	7,800.0	4,821.7	253.5	4,821.7	0.00	0.00	
13,000.0	90.00	0.86	7,800.0	4,921.7	255.0	4,921.7	0.00	0.00	
13,100.0	90.00	0.86	7,800.0	5,021.7	256.5	5,021.7	0.00	0.00	
13,200.0	90.00	0.86	7,800.0	5,121.7	258.0	5,121.7	0.00	0.00	
13,300.0	90.00	0.86	7,800.0	5,221.7	259.5	5,221.7	0.00	0.00	
13,400.0	90.00	0.86	7,800.0	5,321.7	260.9	5,321.7	0.00	0.00	
13,500.0	90.00	0.86	7,800.0	5,421.7	262.4	5,421.7	0.00	0.00	
13,600.0	90.00	0.86	7,800.0	5,521.6	263.9	5,521.6	0.00	0.00	
13,700.0	90.00	0.86	7,800.0	5,621.6	265.4	5,621.6	0.00	0.00	
13,800.0	90.00	0.86	7,800.0	5,721.6	266.9	5,721.6	0.00	0.00	
13,900.0	90.00	0.86	7,800.0	5,821.6	268.4	5,821.6	0.00	0.00	
14,000.0	90.00	0.86	7,800.0	5,921.6	269.9	5,921.6	0.00	0.00	

## Planning Report

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

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,100.0	90.00	0.86	7,800.0	6,021.6	271.4	6,021.6	0.00	0.00	
14,200.0	90.00	0.86	7,800.0	6,121.6	272.9	6,121.6	0.00	0.00	
14,300.0	90.00	0.86	7,800.0	6,221.6	274.4	6,221.6	0.00	0.00	
14,400.0	90.00	0.86	7,800.0	6,321.6	275.9	6,321.6	0.00	0.00	
14,500.0	90.00	0.86	7,800.0	6,421.5	277.4	6,421.5	0.00	0.00	
14,600.0	90.00	0.86	7,800.0	6,521.5	278.9	6,521.5	0.00	0.00	
14,700.0	90.00	0.86	7,800.0	6,621.5	280.4	6,621.5	0.00	0.00	
14,800.0	90.00	0.86	7,800.0	6,721.5	281.9	6,721.5	0.00	0.00	
14,900.0	90.00	0.86	7,800.0	6,821.5	283.3	6,821.5	0.00	0.00	
15,000.0	90.00	0.86	7,800.0	6,921.5	284.8	6,921.5	0.00	0.00	
15,100.0	90.00	0.86	7,800.0	7,021.5	286.3	7,021.5	0.00	0.00	
15,200.0	90.00	0.86	7,800.0	7,121.5	287.8	7,121.5	0.00	0.00	
15,300.0	90.00	0.86	7,800.0	7,221.5	289.3	7,221.5	0.00	0.00	
15,400.0	90.00	0.86	7,800.0	7,321.4	290.8	7,321.4	0.00	0.00	
15,500.0	90.00	0.86	7,800.0	7,421.4	292.3	7,421.4	0.00	0.00	
15,600.0	90.00	0.86	7,800.0	7,521.4	293.8	7,521.4	0.00	0.00	
15,700.0	90.00	0.86	7,800.0	7,621.4	295.3	7,621.4	0.00	0.00	
15,800.0	90.00	0.86	7,800.0	7,721.4	296.8	7,721.4	0.00	0.00	
15,900.0	90.00	0.86	7,800.0	7,821.4	298.3	7,821.4	0.00	0.00	
16,000.0	90.00	0.86	7,800.0	7,921.4	299.8	7,921.4	0.00	0.00	
16,100.0	90.00	0.86	7,800.0	8,021.4	301.3	8,021.4	0.00	0.00	
16,200.0	90.00	0.86	7,800.0	8,121.4	302.8	8,121.4	0.00	0.00	
16,300.0	90.00	0.86	7,800.0	8,221.3	304.2	8,221.3	0.00	0.00	
16,400.0	90.00	0.86	7,800.0	8,321.3	305.7	8,321.3	0.00	0.00	
16,500.0	90.00	0.86	7,800.0	8,421.3	307.2	8,421.3	0.00	0.00	
16,600.0	90.00	0.86	7,800.0	8,521.3	308.7	8,521.3	0.00	0.00	
16,700.0	90.00	0.86	7,800.0	8,621.3	310.2	8,621.3	0.00	0.00	
16,800.0	90.00	0.86	7,800.0	8,721.3	311.7	8,721.3	0.00	0.00	
16,900.0	90.00	0.86	7,800.0	8,821.3	313.2	8,821.3	0.00	0.00	
17,000.0	90.00	0.86	7,800.0	8,921.3	314.7	8,921.3	0.00	0.00	
17,100.0	90.00	0.86	7,800.0	9,021.3	316.2	9,021.3	0.00	0.00	
17,112.8	90.00	0.86	7,800.0	9,034.1	316.4	9,034.1	0.00	0.00	TD at 17112.8

### 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 4F-29H-P168 PBH - plan hits target center - Point	0.00	0.00	7,800.0	9,034.1	316.4	1,258,292.14	3,134,044.93	40.041400	-105.021260
Pratt 4F-29H-P168 PBH - plan misses target center by 205.0ft at 17112.8ft MD (7800.0 TVD, 9034.1 N, 316.4 E) - Point	0.00	0.00	7,595.0	9,034.1	316.4	1,258,292.14	3,134,044.93	40.041400	-105.021260
Pratt 4F-29H TGT - plan hits target center - Point	0.00	0.00	7,589.7	-294.2	415.7	1,248,964.53	3,134,194.46	40.015792	-105.020906
Pratt 4F-29H-P168 TGT - plan hits target center - Point	0.00	0.00	7,800.0	3,972.4	250.0	1,253,230.22	3,134,005.81	40.027505	-105.021497

## Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
789.5	789.0	Fox Hills - BASE				
4,795.7	4,766.0	Sussex				
5,111.0	5,079.0	Sussex Marker				
5,477.7	5,443.0	Shannon				
6,542.5	6,500.0	Teepee Buttes (*if present)				
7,665.4	7,547.0	Sharon Springs				
7,710.7	7,580.0	Niobrara				
8,102.0	7,776.0	B Chalk				
8,156.7	7,788.0	B Marl				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
500.0	500.0	0.0	0.0	Start Build 2.00	
846.6	845.7	-17.9	10.8	Start 5858.1 hold at 846.6 MD	
6,704.7	6,661.0	-623.9	374.9	Start DLS 5.00 TFO -151.16	
7,724.3	7,589.7	-294.2	415.7	Start DLS 8.00 TFO -4.80	
8,288.1	7,800.0	213.2	407.0	Start 3762.5 hold at 8288.1 MD	
12,050.6	7,800.0	3,972.4	250.0	Start DLS 1.00 TFO 90.00	
12,375.2	7,800.0	4,297.0	245.7	Start 4737.6 hold at 12375.2 MD	
17,112.8	7,800.0	9,034.1	316.4	TD at 17112.8	

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

**DJ Wattenberg**

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

**Pratt 4F-29H-P168**

**Hz**

**Plan #3**

## **Anticollision Report**

**21 April, 2015**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #3		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.0ft	<b>Error Model:</b>	Systematic Ellipse
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,059.2ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	4/21/2015		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	17,112.8	Plan #3 (Hz)	MWD	Geolink MWD	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S29-T1N-R68W (Pratt/Waste Connections)						
COSTIGAN 24-20 - ENCANA - SURVEYS						Out of range
COSTIGAN 33-20 - ENCANA - SURVEYS						Out of range
COSTIGAN 34-20 - ENCANA - SURVEYS						Out of range
COSTIGAN 43-20 - ENCANA - SURVEYS	14,710.8	7,958.6	244.7	102.5	1.721	CC, ES, SF
COSTIGAN 6-8-20 - ENCANA - SURVEYS	12,821.7	7,913.1	454.3	347.7	4.262	CC, ES, SF
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,061.9	7,914.2	799.5	676.0	6.473	CC
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,100.0	7,914.6	800.4	675.8	6.424	ES
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,200.0	7,915.4	811.3	684.9	6.418	SF
COSTIGAN 8-8-20 - ENCANA - SURVEYS	12,825.3	8,015.5	786.9	680.1	7.362	CC, ES, SF
COSTIGAN E UNIT 1 - ENCANA - NO SURVEYS						Out of range
EDWARD P COSTIGAN 1 - ENCANA - SURVEYS	13,696.4	7,808.5	173.6	58.3	1.505	CC, ES, SF
M E DRIER 1 - SYNERGY - GYRO	11,164.5	7,803.0	238.0	166.6	3.333	CC, ES, SF
PRATT 0-2-29 - ENCANA - SURVEYS						Out of range
PRATT 1 - SYNERGY - GYRO						Out of range
PRATT 12-29 - ENCANA - SURVEYS						Out of range
PRATT 2 - SYNERGY - GYRO						Out of range
PRATT 2-0-29 - ENCANA - SURVEYS						Out of range
PRATT 21-29 - ENCANA WELL - SURVEYS						Out of range
PRATT 22-29 - ENCANA WELL - SURVEYS						Out of range
PRATT 2-4-29 - ENCANA - SURVEYS						Out of range
PRATT 29-3 - SYNERGY - NO SURVEYS	500.0	472.5	307.9	306.2	186.839	CC, ES
PRATT 29-3 - SYNERGY - NO SURVEYS	8,396.4	7,772.5	369.2	339.8	12.571	SF
PRATT 4-2-29 - ENCANA - SURVEYS						Out of range
Pratt 4B-29H-P168 - Hz - Plan #1	300.0	284.5	39.2	38.3	41.375	CC, ES
Pratt 4B-29H-P168 - Hz - Plan #1	700.0	681.6	53.4	51.1	22.652	SF
Pratt 4C-29H-P168 - Hz - Plan #4	400.0	400.0	30.8	29.5	23.758	CC, ES
Pratt 4C-29H-P168 - Hz - Plan #4	700.0	698.4	40.3	38.0	17.116	SF
Pratt 4D-29H-P168 - Hz - Plan #2	500.0	500.0	19.6	18.0	11.912	CC, ES
Pratt 4D-29H-P168 - Hz - Plan #2	17,000.0	16,830.8	729.5	425.5	2.399	SF
Pratt 4E-29H-P168 - Hz - Plan #4 Ext	500.0	500.0	11.2	9.6	6.807	CC, ES
Pratt 4E-29H-P168 - Hz - Plan #4 Ext	17,112.8	17,444.5	419.8	151.3	1.563	SF
Pratt 4G-29H-P168 - Hz - FINAL	0.0	0.0	8.4			
Pratt 4G-29H-P168 - Hz - FINAL	100.0	100.0	8.6	8.3	31.942	ES
Pratt 4G-29H-P168 - Hz - FINAL	17,112.8	17,380.5	455.1	151.2	1.497	Level 3, SF
Pratt 4G-29H-P168 - Hz - Plan #4	400.0	400.0	8.4	7.1	6.480	CC, ES
Pratt 4G-29H-P168 - Hz - Plan #4	17,112.8	17,393.0	437.0	134.6	1.445	Level 3, SF
PRATT F UNIT 1 - ENCANA WELL - NO SURVEYS						Out of range
SRC PRATT 13-29D - SYNERGY - SURVEYS						Out of range
SRC PRATT 14-29D - SYNERGY - SURVEYS						Out of range
SRC PRATT 24-29 PD - SYNERGY - SURVEYS						Out of range
SRC PRATT 29PD - SYNERGY - SURVEYS	582.2	580.9	313.9	311.8	147.777	CC
SRC PRATT 29PD - SYNERGY - SURVEYS	600.0	597.7	314.0	311.8	142.017	ES
SRC PRATT 29PD - SYNERGY - SURVEYS	1,300.0	1,219.2	451.6	445.8	78.045	SF
SRC PRATT 29SD - SYNERGY - SURVEYS	10,145.4	7,945.8	486.5	425.0	7.901	CC, ES, SF
SRC PRATT 29TD - SYNERGY - SURVEYS	2,925.5	2,965.7	182.2	168.7	13.505	CC
SRC PRATT 29TD - SYNERGY - SURVEYS	3,000.0	3,039.1	182.9	168.5	12.783	ES
SRC PRATT 29TD - SYNERGY - SURVEYS	3,500.0	3,529.3	214.3	195.0	11.096	SF
SRC PRATT 29XD - SYNERGY - GYRO	100.0	73.7	287.3	287.0	1,130.980	CC
SRC PRATT 29XD - SYNERGY - GYRO	200.0	174.3	287.5	286.9	475.367	ES
SRC PRATT 29XD - SYNERGY - GYRO	9,100.0	7,901.0	848.1	802.9	18.783	SF
SRC PRATT 31-29D - SYNERGY - SURVEYS						Out of range
SRC PRATT 32-29D - SYNERGY - SURVEYS						Out of range
SRC PRATT 33-29PD - SYNERGY - SURVEYS	100.0	87.1	341.3	341.1	1,306.551	CC, ES

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 33-29PD - SYNERGY - SURVEYS	1,600.0	1,485.5	530.6	525.1	98.087	SF
SRC PRATT 34-29D - SYNERGY - SURVEYS	540.9	519.4	316.0	314.2	175.394	CC, ES
SRC PRATT 34-29D - SYNERGY - SURVEYS	3,900.0	3,808.6	825.5	808.1	47.256	SF
SRC PRATT 41-29D - SYNERGY - SURVEYS	12,112.1	7,967.3	175.2	78.9	1.819	CC, ES, SF
SRC PRATT 42-29D - SYNERGY - SURVEYS	10,594.5	7,890.3	320.2	255.9	4.979	CC
SRC PRATT 42-29D - SYNERGY - SURVEYS	10,600.0	7,890.1	320.3	255.8	4.971	ES, SF
SRC PRATT 43-29D - SYNERGY - SURVEYS	9,438.4	7,935.3	191.1	139.0	3.666	CC, ES
SRC PRATT 43-29D - SYNERGY - SURVEYS	9,500.0	7,935.2	200.8	145.0	3.602	SF
Waste Connections 3A-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3B-29H-M168 - Hz - Plan #2						Out of range
Waste Connections 3C-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3D-29H-M168 - Hz - Plan #2						Out of range
Waste Connections 3E-29H-M168 - Hz - Plan #1						Out of range
Waste Connections 3F-29H-M168 - Hz - Plan #2						Out of range
Waste Connections 3G-29H-M168 - Hz - Plan #1						Out of range
WILLIAM H PELTIER 1 (P/A) - VESSELS - NO SURVEY	16,702.2	7,781.5	342.8	175.1	2.044	CC, ES, SF
WILLIAM H PELTIER 2 - ENCANA - Plan #1						Out of range
WILLIAM H PELTIER 2 - ENCANA - SURVEYS						Out of range
WILLIAM PELTIER 12-20 - ENCANA - SURVEYS						Out of range
WILLIAM PELTIER 1A-20H - ENCANA - SURVEYS	17,094.2	8,326.1	59.8	21.4	1.559	CC, ES, SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 43-20 - ENCANA - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 88-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
13,700.0	7,800.0	7,951.3	7,798.5	101.8	24.1	87.67	6,628.6	525.1	1,040.0	995.5	44.48	23.380	1.721 CC, ES, SF	
13,800.0	7,800.0	7,952.0	7,799.3	103.6	24.1	87.84	6,628.6	525.1	943.1	896.6	46.47	20.296		
13,900.0	7,800.0	7,952.8	7,800.0	105.3	24.1	88.01	6,628.6	525.2	846.9	797.9	49.04	17.269		
14,000.0	7,800.0	7,953.5	7,800.7	107.0	24.1	88.18	6,628.7	525.2	751.8	699.3	52.45	14.333		
14,100.0	7,800.0	7,954.2	7,801.4	108.8	24.1	88.35	6,628.7	525.2	658.0	601.0	57.05	11.534		
14,200.0	7,800.0	7,954.9	7,802.2	110.5	24.1	88.52	6,628.7	525.2	566.4	503.0	63.40	8.934		
14,300.0	7,800.0	7,955.7	7,802.9	112.3	24.1	88.68	6,628.7	525.2	478.2	405.8	72.38	6.607		
14,400.0	7,800.0	7,956.4	7,803.6	114.0	24.1	88.85	6,628.7	525.2	395.6	310.4	85.25	4.640		
14,500.0	7,800.0	7,957.1	7,804.3	115.7	24.1	89.02	6,628.7	525.2	323.0	219.7	103.34	3.126		
14,600.0	7,800.0	7,957.8	7,805.0	117.5	24.1	89.19	6,628.7	525.2	268.7	143.3	125.37	2.143		
14,700.0	7,800.0	7,958.5	7,805.8	119.2	24.1	89.36	6,628.7	525.2	245.0	103.5	141.49	1.731		
14,710.8	7,800.0	7,958.6	7,805.8	119.4	24.1	89.38	6,628.7	525.2	244.7	102.5	142.21			
14,800.0	7,800.0	7,959.3	7,806.5	121.0	24.1	89.53	6,628.7	525.2	260.5	121.4	139.09	1.873		
14,900.0	7,800.0	7,960.0	7,807.2	122.7	24.1	89.69	6,628.7	525.2	309.3	185.7	123.68	2.501		
15,000.0	7,800.0	7,960.7	7,807.9	124.4	24.1	89.86	6,628.7	525.2	378.8	271.6	107.26	3.532		
15,100.0	7,800.0	7,961.4	7,808.6	126.2	24.1	90.03	6,628.7	525.2	459.7	365.6	94.15	4.883		
15,200.0	7,800.0	7,962.1	7,809.3	127.9	24.1	90.19	6,628.7	525.3	547.0	462.6	84.38	6.482		
15,300.0	7,800.0	7,962.8	7,810.0	129.7	24.1	90.36	6,628.7	525.3	638.0	560.8	77.13	8.271		
15,400.0	7,800.0	7,963.5	7,810.7	131.4	24.1	90.53	6,628.7	525.3	731.3	659.7	71.68	10.203		
15,500.0	7,800.0	7,964.2	7,811.5	133.2	24.1	90.69	6,628.7	525.3	826.2	758.7	67.50	12.241		
15,600.0	7,800.0	7,964.9	7,812.2	134.9	24.1	90.86	6,628.7	525.3	922.2	858.0	64.24	14.357		
15,700.0	7,800.0	7,965.7	7,812.9	136.7	24.1	91.02	6,628.7	525.3	1,019.0	957.3	61.65	16.529		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 6-8-20 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
11,900.0	7,800.0	7,883.0	7,789.1	70.7	20.6	-86.67	4,749.3	-202.2	1,034.8	977.7	57.06	18.135		
12,000.0	7,800.0	7,886.3	7,792.3	72.4	20.6	-87.11	4,749.4	-202.2	944.2	884.0	60.26	15.670		
12,100.0	7,800.0	7,889.5	7,795.5	74.2	20.6	-87.59	4,749.5	-202.1	855.9	791.8	64.10	13.352		
12,200.0	7,800.0	7,892.7	7,798.8	75.9	20.6	-88.08	4,749.6	-202.1	771.3	702.5	68.84	11.204		
12,300.0	7,800.0	7,896.0	7,802.1	77.6	20.6	-88.54	4,749.7	-202.1	691.9	617.3	74.62	9.272		
12,400.0	7,800.0	7,899.3	7,805.3	79.3	20.6	-88.97	4,749.8	-202.0	619.7	538.2	81.48	7.606		
12,500.0	7,800.0	7,902.6	7,808.6	81.0	20.6	-89.38	4,749.9	-202.0	556.6	467.4	89.11	6.246		
12,600.0	7,800.0	7,905.8	7,811.9	82.8	20.6	-89.79	4,750.0	-201.9	505.4	408.6	96.80	5.222		
12,700.0	7,800.0	7,909.1	7,815.1	84.5	20.6	-90.21	4,750.1	-201.9	470.3	367.1	103.16	4.558		
12,800.0	7,800.0	7,912.4	7,818.4	86.2	20.6	-90.62	4,750.2	-201.9	454.8	348.3	106.43	4.273		
12,821.7	7,800.0	7,913.1	7,819.1	86.6	20.6	-90.71	4,750.2	-201.9	454.3	347.7	106.59	4.262	CC, ES, SF	
12,900.0	7,800.0	7,915.6	7,821.7	88.0	20.6	-91.03	4,750.3	-201.8	460.9	355.5	105.47	4.370		
13,000.0	7,800.0	7,918.9	7,824.9	89.7	20.6	-91.44	4,750.4	-201.8	487.9	387.2	100.80	4.841		
13,100.0	7,800.0	7,922.1	7,828.1	91.4	20.6	-91.85	4,750.5	-201.7	532.6	438.6	94.07	5.662		
13,200.0	7,800.0	7,925.4	7,831.4	93.2	20.7	-92.26	4,750.6	-201.7	591.0	504.1	86.91	6.800		
13,300.0	7,800.0	7,928.6	7,834.6	94.9	20.7	-92.66	4,750.7	-201.6	659.4	579.2	80.27	8.215		
13,400.0	7,800.0	7,931.8	7,837.9	96.6	20.7	-93.07	4,750.8	-201.6	735.1	660.6	74.51	9.866		
13,500.0	7,800.0	7,935.1	7,841.1	98.4	20.7	-93.48	4,750.9	-201.6	816.0	746.4	69.67	11.713		
13,600.0	7,800.0	7,938.3	7,844.3	100.1	20.7	-93.88	4,751.0	-201.5	900.8	835.1	65.65	13.720		
13,700.0	7,800.0	7,941.5	7,847.5	101.8	20.7	-94.29	4,751.1	-201.5	988.4	926.1	62.33	15.858		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-6-20 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 134-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)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
13,400.0	7,800.0	7,908.4	7,785.0	96.6	23.5	88.32	5,971.5	1,069.9	1,037.9	949.1	88.73	11.697		
13,500.0	7,800.0	7,909.3	7,785.9	98.4	23.5	88.38	5,971.5	1,069.9	977.2	883.0	94.13	10.380		
13,600.0	7,800.0	7,910.2	7,786.8	100.1	23.5	88.44	5,971.5	1,069.9	923.3	823.4	99.84	9.248		
13,700.0	7,800.0	7,911.0	7,787.7	101.8	23.5	88.51	5,971.5	1,069.9	877.5	771.8	105.70	8.302		
13,800.0	7,800.0	7,911.9	7,788.5	103.6	23.5	88.57	5,971.5	1,070.0	841.3	729.8	111.46	7.547		
13,900.0	7,800.0	7,912.8	7,789.4	105.3	23.5	88.63	5,971.5	1,070.0	815.7	698.9	116.80	6.984		
14,000.0	7,800.0	7,913.7	7,790.3	107.0	23.5	88.70	5,971.5	1,070.0	801.9	680.5	121.31	6.610		
14,061.9	7,800.0	7,914.2	7,790.8	108.1	23.5	88.73	5,971.5	1,070.0	799.5	676.0	123.50	6.473 CC		
14,100.0	7,800.0	7,914.6	7,791.2	108.8	23.5	88.76	5,971.5	1,070.0	800.4	675.8	124.59	6.424 ES		
14,200.0	7,800.0	7,915.4	7,792.1	110.5	23.5	88.82	5,971.6	1,070.0	811.3	684.9	126.42	6.418 SF		
14,300.0	7,800.0	7,916.3	7,792.9	112.3	23.5	88.88	5,971.6	1,070.1	834.2	707.4	126.74	6.582		
14,400.0	7,800.0	7,917.2	7,793.8	114.0	23.5	88.95	5,971.6	1,070.1	868.0	742.3	125.73	6.904		
14,500.0	7,800.0	7,918.1	7,794.7	115.7	23.5	89.01	5,971.6	1,070.1	911.6	788.0	123.68	7.371		
14,600.0	7,800.0	7,919.0	7,795.6	117.5	23.5	89.07	5,971.6	1,070.1	963.7	842.8	120.92	7.969		
14,700.0	7,800.0	7,919.8	7,796.5	119.2	23.5	89.14	5,971.6	1,070.1	1,022.9	905.1	117.76	8.686		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 8-8-20 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 104-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			
12,200.0	7,800.0	8,007.1	7,804.3	75.9	26.6	88.77	4,735.2	1,039.1	1,003.0	918.0	84.96	11.805		
12,300.0	7,800.0	8,008.5	7,805.7	77.6	26.6	88.86	4,735.2	1,039.1	945.7	856.1	89.65	10.549		
12,400.0	7,800.0	8,009.8	7,807.0	79.3	26.6	88.95	4,735.2	1,039.1	894.5	800.2	94.27	9.489		
12,500.0	7,800.0	8,011.2	7,808.4	81.0	26.6	89.04	4,735.2	1,039.1	851.5	752.9	98.61	8.635		
12,600.0	7,800.0	8,012.5	7,809.7	82.8	26.6	89.14	4,735.2	1,039.1	818.5	716.2	102.35	7.997		
12,700.0	7,800.0	8,013.8	7,811.0	84.5	26.6	89.24	4,735.2	1,039.2	796.9	691.7	105.15	7.578		
12,800.0	7,800.0	8,015.1	7,812.3	86.2	26.6	89.33	4,735.3	1,039.2	787.3	680.6	106.71	7.378		
12,825.3	7,800.0	8,015.5	7,812.7	86.7	26.6	89.36	4,735.3	1,039.2	786.9	680.1	106.89	7.362 CC, ES, SF		
12,900.0	7,800.0	8,016.4	7,813.6	88.0	26.6	89.43	4,735.3	1,039.2	790.5	683.6	106.91	7.394		
13,000.0	7,800.0	8,017.7	7,814.9	89.7	26.6	89.52	4,735.3	1,039.2	806.1	700.3	105.84	7.616		
13,100.0	7,800.0	8,018.9	7,816.1	91.4	26.6	89.61	4,735.3	1,039.2	833.5	729.7	103.77	8.032		
13,200.0	7,800.0	8,020.2	7,817.4	93.2	26.6	89.70	4,735.3	1,039.2	871.6	770.6	101.04	8.626		
13,300.0	7,800.0	8,021.4	7,818.6	94.9	26.6	89.79	4,735.3	1,039.2	919.0	821.0	98.00	9.378		
13,400.0	7,800.0	8,022.6	7,819.8	96.6	26.6	89.87	4,735.4	1,039.3	974.4	879.5	94.91	10.267		
13,500.0	7,800.0	8,023.8	7,820.9	98.4	26.6	89.96	4,735.4	1,039.3	1,036.6	944.6	91.92	11.277		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - EDWARD P COSTIGAN 1 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,700.0	7,800.0	7,795.4	7,794.3	84.5	13.7	-85.64	5,620.4	91.8	1,011.3	970.4	40.94	24.705		
12,800.0	7,800.0	7,796.8	7,795.7	86.2	13.7	-86.11	5,620.4	91.8	913.0	870.7	42.23	21.618		
12,900.0	7,800.0	7,798.2	7,797.1	88.0	13.7	-86.58	5,620.5	91.8	815.0	771.1	43.89	18.571		
13,000.0	7,800.0	7,799.6	7,798.5	89.7	13.7	-87.04	5,620.5	91.8	717.6	671.6	46.06	15.579		
13,100.0	7,800.0	7,800.9	7,799.8	91.4	13.7	-87.47	5,620.5	91.7	621.1	572.1	49.02	12.671		
13,200.0	7,800.0	7,802.2	7,801.1	93.2	13.7	-87.89	5,620.5	91.7	525.8	472.7	53.17	9.889		
13,300.0	7,800.0	7,803.5	7,802.4	94.9	13.7	-88.31	5,620.5	91.7	432.7	373.4	59.27	7.301		
13,400.0	7,800.0	7,804.7	7,803.6	96.6	13.7	-88.73	5,620.6	91.7	343.5	274.9	68.60	5.007		
13,500.0	7,800.0	7,806.0	7,804.9	98.4	13.7	-89.14	5,620.6	91.7	262.1	179.0	83.14	3.153		
13,600.0	7,800.0	7,807.3	7,806.2	100.1	13.7	-89.56	5,620.6	91.7	198.6	95.3	103.28	1.923		
13,696.4	7,800.0	7,808.5	7,807.4	101.8	13.7	-89.96	5,620.6	91.7	173.6	58.3	115.35	1.505 CC, ES, SF		
13,700.0	7,800.0	7,808.5	7,807.4	101.8	13.7	-89.97	5,620.6	91.7	173.7	58.4	115.33	1.506		
13,800.0	7,800.0	7,809.8	7,808.7	103.6	13.7	-90.39	5,620.6	91.7	202.2	100.5	101.74	1.988		
13,900.0	7,800.0	7,811.0	7,809.9	105.3	13.7	-90.80	5,620.6	91.7	267.6	185.7	81.87	3.269		
14,000.0	7,800.0	7,812.3	7,811.2	107.0	13.7	-91.21	5,620.6	91.7	349.8	281.8	67.92	5.150		
14,100.0	7,800.0	7,813.5	7,812.4	108.8	13.7	-91.62	5,620.7	91.7	439.4	380.3	59.08	7.437		
14,200.0	7,800.0	7,814.7	7,813.6	110.5	13.7	-92.02	5,620.7	91.7	532.7	479.3	53.40	9.976		
14,300.0	7,800.0	7,816.0	7,814.9	112.3	13.7	-92.43	5,620.7	91.7	628.1	578.5	49.62	12.659		
14,400.0	7,800.0	7,817.2	7,816.1	114.0	13.7	-92.83	5,620.7	91.7	724.7	677.7	47.02	15.414		
14,500.0	7,800.0	7,818.4	7,817.3	115.7	13.7	-93.24	5,620.7	91.7	822.1	776.9	45.18	18.196		
14,600.0	7,800.0	7,819.7	7,818.5	117.5	13.7	-93.64	5,620.7	91.7	920.1	876.2	43.86	20.979		
14,700.0	7,800.0	7,820.9	7,819.8	119.2	13.7	-94.04	5,620.8	91.7	1,018.5	975.6	42.89	23.748		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - M E DRIER 1 - SYNERGY - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-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		
10,200.0	7,800.0	7,851.1	7,849.9	42.2	13.7	-101.02	3,074.9	49.0	992.3	954.9	37.41	26.524		
10,300.0	7,800.0	7,845.6	7,844.4	43.8	13.7	-99.74	3,075.1	49.0	895.7	857.2	38.48	23.279		
10,400.0	7,800.0	7,840.2	7,839.0	45.4	13.7	-98.48	3,075.4	49.0	799.8	760.0	39.81	20.094		
10,500.0	7,800.0	7,835.0	7,833.8	47.1	13.7	-97.25	3,075.7	49.1	705.1	663.6	41.51	16.988		
10,600.0	7,800.0	7,829.9	7,828.7	48.7	13.7	-96.03	3,075.9	49.1	612.0	568.3	43.74	13.992		
10,700.0	7,800.0	7,824.8	7,823.7	50.4	13.7	-94.84	3,076.2	49.1	521.4	474.7	46.76	11.151		
10,800.0	7,800.0	7,819.9	7,818.8	52.1	13.7	-93.67	3,076.4	49.1	435.0	384.0	50.93	8.541		
10,900.0	7,800.0	7,815.1	7,814.0	53.7	13.7	-92.52	3,076.6	49.2	355.6	298.9	56.66	6.276		
11,000.0	7,800.0	7,810.4	7,809.3	55.4	13.7	-91.39	3,076.8	49.2	289.2	225.3	63.91	4.525		
11,100.0	7,800.0	7,805.9	7,804.7	57.1	13.7	-90.29	3,077.0	49.2	246.5	176.2	70.35	3.504		
11,164.5	7,800.0	7,803.0	7,801.8	58.2	13.7	-89.59	3,077.2	49.2	238.0	166.6	71.40	3.333 CC, ES, SF		
11,200.0	7,800.0	7,801.4	7,800.2	58.8	13.7	-89.21	3,077.2	49.2	240.6	170.2	70.42	3.417		
11,300.0	7,800.0	7,796.9	7,795.8	60.5	13.7	-88.14	3,077.4	49.3	273.8	210.5	63.32	4.324		
11,400.0	7,800.0	7,792.5	7,791.3	62.2	13.6	-87.07	3,077.6	49.3	334.6	279.7	54.94	6.091		
11,500.0	7,800.0	7,788.0	7,786.9	63.9	13.6	-86.00	3,077.8	49.3	411.1	362.6	48.47	8.480		
11,600.0	7,800.0	7,783.6	7,782.5	65.6	13.6	-84.95	3,078.0	49.3	495.9	451.9	44.04	11.260		
11,700.0	7,800.0	7,779.2	7,778.1	67.3	13.6	-83.91	3,078.2	49.4	585.5	544.5	41.08	14.252		
11,800.0	7,800.0	7,774.9	7,773.8	69.0	13.6	-82.87	3,078.4	49.4	678.0	638.9	39.10	17.341		
11,900.0	7,800.0	7,770.6	7,769.4	70.7	13.6	-81.84	3,078.6	49.4	772.4	734.6	37.76	20.455		
12,000.0	7,800.0	7,766.2	7,765.1	72.4	13.6	-80.83	3,078.8	49.4	868.0	831.1	36.84	23.558		
12,100.0	7,800.0	7,762.0	7,760.8	74.2	13.6	-79.48	3,079.0	49.5	964.5	928.3	36.22	26.628		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 29-3 - SYNERGY - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 8615-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	6.27	306.0	33.6	309.1						
100.0	100.0	72.5	72.5	0.1	0.1	6.27	306.0	33.6	307.9	307.6	0.25	1,224.006			
200.0	200.0	172.5	172.5	0.3	0.3	6.27	306.0	33.6	307.9	307.3	0.60	512.612			
300.0	300.0	272.5	272.5	0.5	0.5	6.27	306.0	33.6	307.9	306.9	0.95	324.191			
400.0	400.0	372.5	372.5	0.6	0.7	6.27	306.0	33.6	307.9	306.6	1.30	237.057			
500.0	500.0	472.5	472.5	0.8	0.8	6.27	306.0	33.6	307.9	306.2	1.65	186.839	CC, ES		
600.0	600.0	572.5	572.5	1.0	1.0	-142.91	306.0	33.6	309.3	307.3	2.00	154.824			
700.0	699.8	672.3	672.3	1.2	1.2	-143.44	306.0	33.6	313.5	311.1	2.35	133.346			
800.0	799.5	772.0	772.0	1.4	1.3	-144.28	306.0	33.6	320.5	317.8	2.71	118.235			
900.0	898.8	871.3	871.3	1.6	1.5	-145.42	306.0	33.6	330.1	327.0	3.08	107.300			
1,000.0	998.0	970.5	970.5	1.9	1.7	-146.57	306.0	33.6	340.1	336.7	3.44	98.768			
1,100.0	1,097.3	1,069.8	1,069.8	2.1	1.9	-147.65	306.0	33.6	350.3	346.5	3.81	91.907			
1,200.0	1,196.6	1,169.1	1,169.1	2.4	2.0	-148.68	306.0	33.6	360.5	356.4	4.18	86.293			
1,300.0	1,295.8	1,268.3	1,268.3	2.6	2.2	-149.64	306.0	33.6	370.9	366.4	4.54	81.626			
1,400.0	1,395.1	1,367.6	1,367.6	2.9	2.4	-150.56	306.0	33.6	381.4	376.5	4.91	77.695			
1,500.0	1,494.4	1,466.9	1,466.9	3.2	2.6	-151.42	306.0	33.6	392.0	386.7	5.27	74.344			
1,600.0	1,593.6	1,566.1	1,566.1	3.4	2.7	-152.24	306.0	33.6	402.6	397.0	5.63	71.456			
1,700.0	1,692.9	1,665.4	1,665.4	3.7	2.9	-153.02	306.0	33.6	413.4	407.4	6.00	68.945			
1,800.0	1,792.2	1,764.7	1,764.7	4.0	3.1	-153.76	306.0	33.6	424.2	417.8	6.36	66.744			
1,900.0	1,891.5	1,864.0	1,864.0	4.2	3.3	-154.46	306.0	33.6	435.0	428.3	6.71	64.799			
2,000.0	1,990.7	1,963.2	1,963.2	4.5	3.4	-155.13	306.0	33.6	446.0	438.9	7.07	63.070			
2,100.0	2,090.0	2,062.5	2,062.5	4.8	3.6	-155.77	306.0	33.6	457.0	449.5	7.43	61.524			
2,200.0	2,189.3	2,161.8	2,161.8	5.0	3.8	-156.37	306.0	33.6	468.0	460.2	7.78	60.133			
2,300.0	2,288.5	2,261.0	2,261.0	5.3	3.9	-156.95	306.0	33.6	479.1	471.0	8.14	58.876			
2,400.0	2,387.8	2,360.3	2,360.3	5.6	4.1	-157.50	306.0	33.6	490.2	481.8	8.49	57.735			
2,500.0	2,487.1	2,459.6	2,459.6	5.9	4.3	-158.03	306.0	33.6	501.4	492.6	8.84	56.694			
2,600.0	2,586.3	2,558.8	2,558.8	6.1	4.5	-158.53	306.0	33.6	512.7	503.5	9.20	55.742			
2,700.0	2,685.6	2,658.1	2,658.1	6.4	4.6	-159.02	306.0	33.6	523.9	514.4	9.55	54.868			
2,800.0	2,784.9	2,757.4	2,757.4	6.7	4.8	-159.48	306.0	33.6	535.2	525.3	9.90	54.062			
2,900.0	2,884.1	2,856.6	2,856.6	6.9	5.0	-159.92	306.0	33.6	546.5	536.3	10.25	53.317			
3,000.0	2,983.4	2,955.9	2,955.9	7.2	5.2	-160.35	306.0	33.6	557.9	547.3	10.60	52.627			
3,100.0	3,082.7	3,055.2	3,055.2	7.5	5.3	-160.75	306.0	33.6	569.3	558.3	10.95	51.986			
3,200.0	3,182.0	3,154.5	3,154.5	7.8	5.5	-161.15	306.0	33.6	580.7	569.4	11.30	51.389			
3,300.0	3,281.2	3,253.7	3,253.7	8.0	5.7	-161.52	306.0	33.6	592.1	580.5	11.65	50.831			
3,400.0	3,380.5	3,353.0	3,353.0	8.3	5.9	-161.89	306.0	33.6	603.6	591.6	12.00	50.309			
3,500.0	3,479.8	3,452.3	3,452.3	8.6	6.0	-162.24	306.0	33.6	615.1	602.8	12.35	49.819			
3,600.0	3,579.0	3,551.5	3,551.5	8.8	6.2	-162.57	306.0	33.6	626.6	613.9	12.69	49.359			
3,700.0	3,678.3	3,650.8	3,650.8	9.1	6.4	-162.90	306.0	33.6	638.1	625.1	13.04	48.927			
3,800.0	3,777.6	3,750.1	3,750.1	9.4	6.5	-163.21	306.0	33.6	649.7	636.3	13.39	48.519			
3,900.0	3,876.8	3,849.3	3,849.3	9.7	6.7	-163.51	306.0	33.6	661.3	647.5	13.74	48.133			
4,000.0	3,976.1	3,948.6	3,948.6	9.9	6.9	-163.80	306.0	33.6	672.8	658.8	14.09	47.769			
4,100.0	4,075.4	4,047.9	4,047.9	10.2	7.1	-164.08	306.0	33.6	684.5	670.0	14.43	47.423			
4,200.0	4,174.6	4,147.1	4,147.1	10.5	7.2	-164.36	306.0	33.6	696.1	681.3	14.78	47.096			
4,300.0	4,273.9	4,246.4	4,246.4	10.8	7.4	-164.62	306.0	33.6	707.7	692.6	15.13	46.785			
4,400.0	4,373.2	4,345.7	4,345.7	11.0	7.6	-164.87	306.0	33.6	719.4	703.9	15.47	46.489			
4,500.0	4,472.5	4,445.0	4,445.0	11.3	7.8	-165.12	306.0	33.6	731.0	715.2	15.82	46.208			
4,600.0	4,571.7	4,544.2	4,544.2	11.6	7.9	-165.36	306.0	33.6	742.7	726.5	16.17	45.939			
4,700.0	4,671.0	4,643.5	4,643.5	11.8	8.1	-165.59	306.0	33.6	754.4	737.9	16.51	45.683			
4,800.0	4,770.3	4,742.8	4,742.8	12.1	8.3	-165.82	306.0	33.6	766.1	749.2	16.86	45.438			
4,900.0	4,869.5	4,842.0	4,842.0	12.4	8.5	-166.03	306.0	33.6	777.8	760.6	17.21	45.204			
5,000.0	4,968.8	4,941.3	4,941.3	12.7	8.6	-166.25	306.0	33.6	789.5	772.0	17.55	44.980			
5,100.0	5,068.1	5,040.6	5,040.6	12.9	8.8	-166.45	306.0	33.6	801.2	783.3	17.90	44.765			

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - PRATT 29-3 - SYNERGY - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8615-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			
5,200.0	5,167.3	5,139.8	5,139.8	13.2	9.0	-166.65	306.0	33.6	813.0	794.7	18.24	44.560		
5,300.0	5,266.6	5,239.1	5,239.1	13.5	9.1	-166.84	306.0	33.6	824.7	806.1	18.59	44.362		
5,400.0	5,365.9	5,338.4	5,338.4	13.8	9.3	-167.03	306.0	33.6	836.5	817.6	18.94	44.172		
5,500.0	5,465.1	5,437.6	5,437.6	14.0	9.5	-167.21	306.0	33.6	848.3	829.0	19.28	43.990		
5,600.0	5,564.4	5,536.9	5,536.9	14.3	9.7	-167.39	306.0	33.6	860.0	840.4	19.63	43.815		
5,700.0	5,663.7	5,636.2	5,636.2	14.6	9.8	-167.56	306.0	33.6	871.8	851.9	19.98	43.646		
5,800.0	5,763.0	5,735.5	5,735.5	14.9	10.0	-167.73	306.0	33.6	883.6	863.3	20.32	43.483		
5,900.0	5,862.2	5,834.7	5,834.7	15.1	10.2	-167.90	306.0	33.6	895.4	874.8	20.67	43.326		
6,000.0	5,961.5	5,934.0	5,934.0	15.4	10.4	-168.06	306.0	33.6	907.2	886.2	21.01	43.175		
6,100.0	6,060.8	6,033.3	6,033.3	15.7	10.5	-168.21	306.0	33.6	919.0	897.7	21.36	43.029		
6,200.0	6,160.0	6,132.5	6,132.5	15.9	10.7	-168.36	306.0	33.6	930.9	909.2	21.70	42.888		
6,300.0	6,259.3	6,231.8	6,231.8	16.2	10.9	-168.51	306.0	33.6	942.7	920.6	22.05	42.752		
6,400.0	6,358.6	6,331.1	6,331.1	16.5	11.0	-168.66	306.0	33.6	954.5	932.1	22.40	42.620		
6,500.0	6,457.8	6,430.3	6,430.3	16.8	11.2	-168.80	306.0	33.6	966.4	943.6	22.74	42.492		
6,600.0	6,557.1	6,529.6	6,529.6	17.0	11.4	-168.93	306.0	33.6	978.2	955.1	23.09	42.369		
6,700.0	6,656.4	6,628.9	6,628.9	17.3	11.6	-169.07	306.0	33.6	990.1	966.6	23.43	42.249		
6,800.0	6,756.0	6,728.5	6,728.5	17.5	11.7	-129.45	306.0	33.6	998.2	974.4	23.79	41.965		
6,900.0	6,855.7	6,828.2	6,828.2	17.6	11.9	-60.56	306.0	33.6	998.0	973.9	24.14	41.340		
7,000.0	6,954.9	6,927.4	6,927.4	17.6	12.1	-40.12	306.0	33.6	989.6	965.1	24.50	40.394		
7,100.0	7,052.8	7,025.3	7,025.3	17.5	12.3	-33.82	306.0	33.6	973.2	948.4	24.86	39.148		
7,200.0	7,148.7	7,121.2	7,121.2	17.3	12.4	-31.63	306.0	33.6	948.9	923.7	25.22	37.626		
7,300.0	7,241.7	7,214.2	7,214.2	17.1	12.6	-31.35	306.0	33.6	917.2	891.6	25.58	35.853		
7,400.0	7,331.3	7,303.8	7,303.8	16.8	12.7	-32.34	306.0	33.6	878.3	852.4	25.94	33.856		
7,500.0	7,416.7	7,389.2	7,389.2	16.5	12.9	-34.40	306.0	33.6	832.9	806.6	26.30	31.667		
7,600.0	7,497.2	7,469.7	7,469.7	16.2	13.0	-37.54	306.0	33.6	781.8	755.1	26.67	29.318		
7,700.0	7,572.3	7,544.8	7,544.8	16.0	13.2	-41.85	306.0	33.6	725.7	698.7	27.03	26.849		
7,800.0	7,640.3	7,612.8	7,612.8	15.8	13.3	-48.59	306.0	33.6	665.1	637.7	27.40	24.277		
7,900.0	7,697.6	7,670.1	7,670.1	15.7	13.4	-57.81	306.0	33.6	600.0	572.2	27.77	21.605		
8,000.0	7,742.9	7,715.4	7,715.4	15.7	13.5	-68.45	306.0	33.6	533.7	505.6	28.15	18.957		
8,100.0	7,775.5	7,748.0	7,748.0	15.9	13.5	-78.65	306.0	33.6	470.9	442.4	28.54	16.498		
8,200.0	7,794.6	7,767.1	7,767.1	16.2	13.6	-86.34	306.0	33.6	417.8	388.8	28.92	14.446		
8,300.0	7,800.0	7,772.5	7,772.5	16.7	13.6	-90.00	306.0	33.6	381.5	352.3	29.22	13.059		
8,396.4	7,800.0	7,772.5	7,772.5	17.4	13.6	-90.00	306.0	33.6	369.2	339.8	29.37	12.571 SF		
8,400.0	7,800.0	7,772.5	7,772.5	17.4	13.6	-90.00	306.0	33.6	369.2	339.8	29.37	12.572		
8,500.0	7,800.0	7,772.5	7,772.5	18.3	13.6	-90.00	306.0	33.6	383.4	354.1	29.36	13.059		
8,600.0	7,800.0	7,772.5	7,772.5	19.2	13.6	-90.00	306.0	33.6	421.6	392.3	29.29	14.396		
8,700.0	7,800.0	7,772.5	7,772.5	20.3	13.6	-90.00	306.0	33.6	478.0	448.7	29.23	16.353		
8,800.0	7,800.0	7,772.5	7,772.5	21.4	13.6	-90.00	306.0	33.6	547.0	517.7	29.22	18.716		
8,900.0	7,800.0	7,772.5	7,772.5	22.6	13.6	-90.00	306.0	33.6	624.4	595.1	29.27	21.332		
9,000.0	7,800.0	7,772.5	7,772.5	23.9	13.6	-90.00	306.0	33.6	707.5	678.2	29.35	24.103		
9,100.0	7,800.0	7,772.5	7,772.5	25.3	13.6	-90.00	306.0	33.6	794.6	765.1	29.46	26.969		
9,200.0	7,800.0	7,772.5	7,772.5	26.7	13.6	-90.00	306.0	33.6	884.3	854.8	29.59	29.890		
9,300.0	7,800.0	7,772.5	7,772.5	28.1	13.6	-90.00	306.0	33.6	976.1	946.4	29.72	32.843		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-29H-P168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-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	-89.94	0.0	-39.2	42.2					
100.0	100.0	84.5	84.5	0.1	0.1	-89.94	0.0	-39.2	39.2	39.0	0.25	154.928		
200.0	200.0	184.5	184.5	0.3	0.3	-89.94	0.0	-39.2	39.2	38.6	0.60	65.501		
300.0	300.0	284.5	284.5	0.5	0.5	-89.94	0.0	-39.2	39.2	38.3	0.95	41.375 CC, ES		
400.0	400.0	384.0	384.0	0.6	0.6	-90.44	-0.3	-39.7	39.7	38.4	1.30	30.651		
500.0	500.0	483.4	483.4	0.8	0.8	-92.22	-1.6	-41.6	41.7	40.0	1.64	25.345		
600.0	600.0	582.7	582.5	1.0	1.0	117.94	-3.9	-45.0	46.0	44.0	2.00	23.035		
700.0	699.8	681.6	681.4	1.2	1.2	119.54	-7.1	-49.7	53.4	51.1	2.36	22.652 SF		
800.0	799.5	780.2	779.6	1.4	1.4	122.47	-11.3	-55.8	64.1	61.4	2.74	23.399		
900.0	898.8	878.2	877.2	1.6	1.6	125.62	-16.3	-63.3	78.0	74.8	3.14	24.821		
1,000.0	998.0	975.8	974.2	1.9	1.9	127.38	-22.3	-72.1	93.5	90.0	3.56	26.290		
1,100.0	1,097.3	1,073.1	1,070.7	2.1	2.1	128.06	-29.2	-82.3	110.4	106.4	3.99	27.691		
1,200.0	1,196.6	1,169.9	1,166.6	2.4	2.4	128.05	-37.0	-93.7	128.5	124.1	4.43	29.021		
1,300.0	1,295.8	1,266.3	1,261.7	2.6	2.7	127.62	-45.7	-106.4	147.8	143.0	4.88	30.296		
1,400.0	1,395.1	1,362.2	1,356.1	2.9	3.0	126.92	-55.1	-120.4	168.4	163.1	5.34	31.545		
1,500.0	1,494.4	1,459.9	1,452.1	3.2	3.3	126.20	-65.3	-135.3	189.7	183.9	5.82	32.612		
1,600.0	1,593.6	1,557.6	1,548.1	3.4	3.7	125.63	-75.4	-150.1	210.9	204.6	6.29	33.507		
1,700.0	1,692.9	1,655.3	1,644.2	3.7	4.0	125.16	-85.5	-165.0	232.2	225.4	6.78	34.265		
1,800.0	1,792.2	1,752.9	1,740.2	4.0	4.4	124.78	-95.6	-179.9	253.4	246.2	7.26	34.916		
1,900.0	1,891.5	1,850.6	1,836.2	4.2	4.7	124.45	-105.7	-194.7	274.7	267.0	7.74	35.479		
2,000.0	1,990.7	1,948.3	1,932.3	4.5	5.1	124.17	-115.8	-209.6	296.0	287.8	8.23	35.971		
2,100.0	2,090.0	2,046.0	2,028.3	4.8	5.4	123.92	-125.9	-224.5	317.3	308.6	8.72	36.405		
2,200.0	2,189.3	2,143.7	2,124.3	5.0	5.8	123.71	-136.0	-239.3	338.6	329.4	9.20	36.789		
2,300.0	2,288.5	2,241.4	2,220.4	5.3	6.1	123.52	-146.1	-254.2	359.9	350.2	9.69	37.133		
2,400.0	2,387.8	2,339.1	2,316.4	5.6	6.5	123.36	-156.2	-269.1	381.2	371.0	10.18	37.442		
2,500.0	2,487.1	2,436.8	2,412.4	5.9	6.8	123.21	-166.3	-284.0	402.5	391.9	10.67	37.720		
2,600.0	2,586.3	2,534.5	2,508.4	6.1	7.2	123.07	-176.4	-298.8	423.8	412.7	11.16	37.973		
2,700.0	2,685.6	2,632.2	2,604.5	6.4	7.5	122.95	-186.5	-313.7	445.1	433.5	11.65	38.204		
2,800.0	2,784.9	2,729.9	2,700.5	6.7	7.9	122.84	-196.6	-328.6	466.5	454.3	12.14	38.414		
2,900.0	2,884.1	2,827.6	2,796.5	6.9	8.3	122.74	-206.7	-343.4	487.8	475.1	12.63	38.608		
3,000.0	2,983.4	2,925.3	2,892.6	7.2	8.6	122.65	-216.8	-358.3	509.1	496.0	13.13	38.786		
3,100.0	3,082.7	3,023.0	2,988.6	7.5	9.0	122.56	-227.0	-373.2	530.4	516.8	13.62	38.951		
3,200.0	3,182.0	3,120.7	3,084.6	7.8	9.3	122.49	-237.1	-388.0	551.7	537.6	14.11	39.104		
3,300.0	3,281.2	3,218.4	3,180.6	8.0	9.7	122.41	-247.2	-402.9	573.1	558.5	14.60	39.246		
3,400.0	3,380.5	3,316.1	3,276.7	8.3	10.0	122.35	-257.3	-417.8	594.4	579.3	15.09	39.379		
3,500.0	3,479.8	3,413.8	3,372.7	8.6	10.4	122.28	-267.4	-432.6	615.7	600.1	15.59	39.502		
3,600.0	3,579.0	3,511.5	3,468.7	8.8	10.8	122.23	-277.5	-447.5	637.0	620.9	16.08	39.618		
3,700.0	3,678.3	3,609.2	3,564.8	9.1	11.1	122.17	-287.6	-462.4	658.4	641.8	16.57	39.727		
3,800.0	3,777.6	3,706.9	3,660.8	9.4	11.5	122.12	-297.7	-477.2	679.7	662.6	17.07	39.829		
3,900.0	3,876.8	3,804.6	3,756.8	9.7	11.8	122.07	-307.8	-492.1	701.0	683.4	17.56	39.925		
4,000.0	3,976.1	3,902.3	3,852.9	9.9	12.2	122.03	-317.9	-507.0	722.3	704.3	18.05	40.015		
4,100.0	4,075.4	4,000.0	3,948.9	10.2	12.6	121.98	-328.0	-521.8	743.7	725.1	18.54	40.101		
4,200.0	4,174.6	4,097.7	4,044.9	10.5	12.9	121.94	-338.1	-536.7	765.0	745.9	19.04	40.182		
4,300.0	4,273.9	4,195.4	4,140.9	10.8	13.3	121.91	-348.2	-551.6	786.3	766.8	19.53	40.259		
4,400.0	4,373.2	4,293.1	4,237.0	11.0	13.6	121.87	-358.3	-566.4	807.6	787.6	20.02	40.332		
4,500.0	4,472.5	4,390.8	4,333.0	11.3	14.0	121.84	-368.4	-581.3	829.0	808.4	20.52	40.401		
4,600.0	4,571.7	4,488.5	4,429.0	11.6	14.3	121.80	-378.5	-596.2	850.3	829.3	21.01	40.467		
4,700.0	4,671.0	4,586.2	4,525.1	11.8	14.7	121.77	-388.7	-611.1	871.6	850.1	21.51	40.530		
4,800.0	4,770.3	4,683.9	4,621.1	12.1	15.1	121.74	-398.8	-625.9	892.9	870.9	22.00	40.590		
4,900.0	4,869.5	4,781.6	4,717.1	12.4	15.4	121.72	-408.9	-640.8	914.3	891.8	22.49	40.647		
5,000.0	4,968.8	4,879.3	4,813.2	12.7	15.8	121.69	-419.0	-655.7	935.6	912.6	22.99	40.701		
5,100.0	5,068.1	4,977.0	4,909.2	12.9	16.1	121.66	-429.1	-670.5	956.9	933.4	23.48	40.754		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-29H-P168 - Hz - Plan #1		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)								
5,200.0	5,167.3	5,074.7	5,005.2	13.2	16.5	121.64	-439.2	-685.4	978.3	954.3	23.97	40.804						
5,300.0	5,266.6	5,172.4	5,101.2	13.5	16.9	121.62	-449.3	-700.3	999.6	975.1	24.47	40.851						
5,400.0	5,365.9	5,270.1	5,197.3	13.8	17.2	121.59	-459.4	-715.1	1,020.9	996.0	24.96	40.897						
5,500.0	5,465.1	5,367.8	5,293.3	14.0	17.6	121.57	-469.5	-730.0	1,042.2	1,016.8	25.46	40.942						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-29H-P168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.1	0.1	-89.95	0.0	-30.8	30.8	30.6	0.25	123.444		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.8	30.8	30.2	0.60	51.465		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-30.8	30.8	29.9	0.95	32.509		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	-30.8	30.8	29.5	1.30	23.758 CC, ES		
500.0	500.0	499.6	499.6	0.8	0.8	-90.98	-0.5	-31.5	31.5	29.8	1.65	19.129		
600.0	600.0	599.1	599.1	1.0	1.0	119.71	-2.2	-33.4	34.4	32.4	2.00	17.210		
700.0	699.8	698.4	698.3	1.2	1.2	122.14	-5.0	-36.7	40.3	38.0	2.36	17.116 SF		
800.0	799.5	797.4	797.1	1.4	1.4	125.82	-9.0	-41.3	49.6	46.9	2.74	18.130		
900.0	898.8	895.9	895.3	1.6	1.6	129.33	-14.0	-47.1	62.0	58.9	3.13	19.793		
1,000.0	998.0	994.2	993.1	1.9	1.8	130.93	-20.0	-54.1	75.9	72.3	3.54	21.409		
1,100.0	1,097.3	1,092.1	1,090.5	2.1	2.0	131.18	-27.2	-62.5	90.9	86.9	3.97	22.872		
1,200.0	1,196.6	1,189.8	1,187.3	2.4	2.3	130.66	-35.4	-72.0	106.9	102.5	4.42	24.206		
1,300.0	1,295.8	1,287.6	1,284.1	2.6	2.6	129.73	-44.6	-82.7	123.9	119.0	4.87	25.429		
1,400.0	1,395.1	1,386.1	1,381.5	2.9	2.8	128.94	-54.0	-93.7	141.1	135.8	5.34	26.431		
1,500.0	1,494.4	1,484.6	1,479.0	3.2	3.1	128.32	-63.5	-104.6	158.3	152.5	5.81	27.257		
1,600.0	1,593.6	1,583.1	1,576.4	3.4	3.4	127.82	-72.9	-115.6	175.6	169.3	6.28	27.947		
1,700.0	1,692.9	1,681.6	1,673.8	3.7	3.7	127.41	-82.3	-126.5	192.8	186.0	6.76	28.531		
1,800.0	1,792.2	1,780.1	1,771.3	4.0	4.0	127.07	-91.7	-137.5	210.1	202.8	7.24	29.032		
1,900.0	1,891.5	1,878.6	1,868.7	4.2	4.3	126.78	-101.2	-148.4	227.3	219.6	7.71	29.465		
2,000.0	1,990.7	1,977.1	1,966.1	4.5	4.6	126.53	-110.6	-159.4	244.6	236.4	8.20	29.844		
2,100.0	2,090.0	2,075.6	2,063.5	4.8	4.9	126.31	-120.0	-170.4	261.9	253.2	8.68	30.177		
2,200.0	2,189.3	2,174.1	2,161.0	5.0	5.2	126.12	-129.4	-181.3	279.1	270.0	9.16	30.472		
2,300.0	2,288.5	2,272.6	2,258.4	5.3	5.5	125.95	-138.9	-192.3	296.4	286.8	9.64	30.736		
2,400.0	2,387.8	2,371.1	2,355.8	5.6	5.8	125.80	-148.3	-203.2	313.7	303.6	10.13	30.972		
2,500.0	2,487.1	2,469.6	2,453.2	5.9	6.1	125.67	-157.7	-214.2	331.0	320.3	10.61	31.186		
2,600.0	2,586.3	2,568.0	2,550.7	6.1	6.4	125.55	-167.1	-225.1	348.2	337.1	11.10	31.379		
2,700.0	2,685.6	2,666.5	2,648.1	6.4	6.7	125.44	-176.6	-236.1	365.5	353.9	11.58	31.556		
2,800.0	2,784.9	2,765.0	2,745.5	6.7	7.0	125.34	-186.0	-247.0	382.8	370.7	12.07	31.717		
2,900.0	2,884.1	2,863.5	2,842.9	6.9	7.3	125.25	-195.4	-258.0	400.1	387.5	12.56	31.865		
3,000.0	2,983.4	2,962.0	2,940.4	7.2	7.6	125.17	-204.8	-269.0	417.4	404.3	13.04	32.001		
3,100.0	3,082.7	3,060.5	3,037.8	7.5	7.9	125.09	-214.3	-279.9	434.7	421.1	13.53	32.127		
3,200.0	3,182.0	3,159.0	3,135.2	7.8	8.2	125.02	-223.7	-290.9	451.9	437.9	14.02	32.244		
3,300.0	3,281.2	3,257.5	3,232.7	8.0	8.5	124.96	-233.1	-301.8	469.2	454.7	14.50	32.352		
3,400.0	3,380.5	3,356.0	3,330.1	8.3	8.8	124.90	-242.5	-312.8	486.5	471.5	14.99	32.453		
3,500.0	3,479.8	3,454.5	3,427.5	8.6	9.1	124.84	-252.0	-323.7	503.8	488.3	15.48	32.547		
3,600.0	3,579.0	3,553.0	3,524.9	8.8	9.4	124.79	-261.4	-334.7	521.1	505.1	15.97	32.635		
3,700.0	3,678.3	3,651.5	3,622.4	9.1	9.7	124.74	-270.8	-345.7	538.4	521.9	16.46	32.718		
3,800.0	3,777.6	3,750.0	3,719.8	9.4	10.0	124.69	-280.2	-356.6	555.7	538.7	16.94	32.796		
3,900.0	3,876.8	3,848.5	3,817.2	9.7	10.4	124.65	-289.7	-367.6	573.0	555.5	17.43	32.869		
4,000.0	3,976.1	3,947.0	3,914.6	9.9	10.7	124.61	-299.1	-378.5	590.3	572.3	17.92	32.938		
4,100.0	4,075.4	4,045.4	4,012.1	10.2	11.0	124.57	-308.5	-389.5	607.5	589.1	18.41	33.003		
4,200.0	4,174.6	4,143.9	4,109.5	10.5	11.3	124.53	-317.9	-400.4	624.8	605.9	18.90	33.065		
4,300.0	4,273.9	4,242.4	4,206.9	10.8	11.6	124.50	-327.4	-411.4	642.1	622.7	19.39	33.123		
4,400.0	4,373.2	4,340.9	4,304.4	11.0	11.9	124.46	-336.8	-422.4	659.4	639.5	19.87	33.179		
4,500.0	4,472.5	4,439.4	4,401.8	11.3	12.2	124.43	-346.2	-433.3	676.7	656.3	20.36	33.231		
4,600.0	4,571.7	4,537.9	4,499.2	11.6	12.5	124.40	-355.6	-444.3	694.0	673.1	20.85	33.281		
4,700.0	4,671.0	4,636.4	4,596.6	11.8	12.8	124.38	-365.1	-455.2	711.3	690.0	21.34	33.329		
4,800.0	4,770.3	4,734.9	4,694.1	12.1	13.1	124.35	-374.5	-466.2	728.6	706.8	21.83	33.374		
4,900.0	4,869.5	4,833.4	4,791.5	12.4	13.4	124.32	-383.9	-477.1	745.9	723.6	22.32	33.418		
5,000.0	4,968.8	4,931.9	4,888.9	12.7	13.7	124.30	-393.3	-488.1	763.2	740.4	22.81	33.459		
5,100.0	5,068.1	5,030.4	4,986.3	12.9	14.0	124.28	-402.8	-499.0	780.5	757.2	23.30	33.499		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4C-29H-P168 - Hz - Plan #4													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)		Total Uncertainty Axis	Separation Factor	
5,200.0	5,167.3	5,128.9	5,083.8	13.2	14.3	124.25	-412.2	-510.0	797.8	774.0	23.79	33.537		
5,300.0	5,266.6	5,227.4	5,181.2	13.5	14.6	124.23	-421.6	-521.0	815.0	790.8	24.28	33.573		
5,400.0	5,365.9	5,325.9	5,278.6	13.8	14.9	124.21	-431.0	-531.9	832.3	807.6	24.77	33.608		
5,500.0	5,465.1	5,424.3	5,376.0	14.0	15.2	124.19	-440.5	-542.9	849.6	824.4	25.26	33.642		
5,600.0	5,564.4	5,522.8	5,473.5	14.3	15.5	124.17	-449.9	-553.8	866.9	841.2	25.74	33.674		
5,700.0	5,663.7	5,621.3	5,570.9	14.6	15.9	124.16	-459.3	-564.8	884.2	858.0	26.23	33.705		
5,800.0	5,763.0	5,719.8	5,668.3	14.9	16.2	124.14	-468.7	-575.7	901.5	874.8	26.72	33.734		
5,900.0	5,862.2	5,818.3	5,765.8	15.1	16.5	124.12	-478.2	-586.7	918.8	891.6	27.21	33.763		
6,000.0	5,961.5	5,916.8	5,863.2	15.4	16.8	124.10	-487.6	-597.7	936.1	908.4	27.70	33.791		
6,100.0	6,060.8	6,015.3	5,960.6	15.7	17.1	124.09	-497.0	-608.6	953.4	925.2	28.19	33.817		
6,200.0	6,160.0	6,113.8	6,058.0	15.9	17.4	124.07	-506.4	-619.6	970.7	942.0	28.68	33.843		
6,300.0	6,259.3	6,212.3	6,155.5	16.2	17.7	124.06	-515.9	-630.5	988.0	958.8	29.17	33.868		
6,400.0	6,358.6	6,310.8	6,252.9	16.5	18.0	124.05	-525.3	-641.5	1,005.3	975.6	29.66	33.892		
6,500.0	6,457.8	6,409.3	6,350.3	16.8	18.3	124.03	-534.7	-652.4	1,022.6	992.4	30.15	33.915		
6,600.0	6,557.1	6,507.8	6,447.7	17.0	18.6	124.02	-544.1	-663.4	1,039.9	1,009.2	30.64	33.937		
6,700.0	6,656.4	6,606.3	6,545.2	17.3	18.9	124.01	-553.6	-674.4	1,057.2	1,026.0	31.13	33.959		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	0.1	0.1	-89.95	0.0	-19.6	19.6	19.4	0.25	78.555		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	19.0	0.60	32.750		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.7	0.95	20.688		
400.0	400.0	400.0	400.0	0.6	0.6	-89.95	0.0	-19.6	19.6	18.3	1.30	15.119		
500.0	500.0	500.0	500.0	0.8	0.8	-89.95	0.0	-19.6	19.6	18.0	1.65	11.912 CC, ES		
600.0	600.0	599.8	599.8	1.0	1.0	122.97	-0.8	-20.0	20.9	18.9	2.00	10.479		
700.0	699.8	699.6	699.5	1.2	1.2	127.51	-3.1	-21.2	25.0	22.6	2.36	10.602		
800.0	799.5	799.1	799.0	1.4	1.4	132.43	-7.0	-23.2	31.9	29.2	2.73	11.705		
900.0	898.8	898.5	898.2	1.6	1.5	136.12	-12.4	-26.0	41.6	38.5	3.12	13.333		
1,000.0	998.0	997.8	997.2	1.9	1.8	136.82	-19.4	-29.6	51.9	48.4	3.53	14.720		
1,100.0	1,097.3	1,097.0	1,095.9	2.1	2.0	135.73	-27.9	-33.9	62.6	58.7	3.96	15.813		
1,200.0	1,196.6	1,196.2	1,194.5	2.4	2.2	133.69	-37.9	-39.0	73.7	69.3	4.41	16.697		
1,300.0	1,295.8	1,295.5	1,293.1	2.6	2.4	131.90	-48.2	-44.3	85.0	80.1	4.88	17.411		
1,400.0	1,395.1	1,394.9	1,391.7	2.9	2.7	130.53	-58.6	-49.7	96.3	91.0	5.35	17.990		
1,500.0	1,494.4	1,494.2	1,490.4	3.2	2.9	129.45	-69.0	-55.0	107.7	101.9	5.83	18.467		
1,600.0	1,593.6	1,593.5	1,589.0	3.4	3.2	128.58	-79.3	-60.3	119.1	112.8	6.32	18.864		
1,700.0	1,692.9	1,692.8	1,687.7	3.7	3.4	127.86	-89.7	-65.6	130.6	123.8	6.80	19.201		
1,800.0	1,792.2	1,792.2	1,786.3	4.0	3.7	127.26	-100.0	-70.9	142.0	134.7	7.29	19.489		
1,900.0	1,891.5	1,891.5	1,885.0	4.2	4.0	126.75	-110.4	-76.2	153.5	145.7	7.78	19.738		
2,000.0	1,990.7	1,990.8	1,983.6	4.5	4.2	126.30	-120.8	-81.5	165.0	156.7	8.27	19.955		
2,100.0	2,090.0	2,090.2	2,082.3	4.8	4.5	125.92	-131.1	-86.8	176.5	167.7	8.76	20.145		
2,200.0	2,189.3	2,189.5	2,180.9	5.0	4.7	125.58	-141.5	-92.1	188.0	178.7	9.25	20.314		
2,300.0	2,288.5	2,288.8	2,279.6	5.3	5.0	125.28	-151.8	-97.4	199.5	189.7	9.75	20.465		
2,400.0	2,387.8	2,388.2	2,378.2	5.6	5.3	125.02	-162.2	-102.8	211.0	200.7	10.24	20.600		
2,500.0	2,487.1	2,487.5	2,476.9	5.9	5.5	124.78	-172.6	-108.1	222.5	211.7	10.74	20.722		
2,600.0	2,586.3	2,586.8	2,575.5	6.1	5.8	124.56	-182.9	-113.4	234.0	222.7	11.23	20.832		
2,700.0	2,685.6	2,686.2	2,674.2	6.4	6.1	124.37	-193.3	-118.7	245.5	233.8	11.73	20.933		
2,800.0	2,784.9	2,785.5	2,772.8	6.7	6.3	124.19	-203.6	-124.0	257.0	244.8	12.22	21.024		
2,900.0	2,884.1	2,884.8	2,871.5	6.9	6.6	124.03	-214.0	-129.3	268.5	255.8	12.72	21.108		
3,000.0	2,983.4	2,984.2	2,970.1	7.2	6.8	123.88	-224.4	-134.6	280.0	266.8	13.22	21.186		
3,100.0	3,082.7	3,083.5	3,068.7	7.5	7.1	123.74	-234.7	-139.9	291.6	277.9	13.72	21.257		
3,200.0	3,182.0	3,182.8	3,167.4	7.8	7.4	123.62	-245.1	-145.2	303.1	288.9	14.21	21.323		
3,300.0	3,281.2	3,282.2	3,266.0	8.0	7.6	123.50	-255.4	-150.6	314.6	299.9	14.71	21.385		
3,400.0	3,380.5	3,381.5	3,364.7	8.3	7.9	123.39	-265.8	-155.9	326.1	310.9	15.21	21.442		
3,500.0	3,479.8	3,480.8	3,463.3	8.6	8.2	123.29	-276.2	-161.2	337.7	322.0	15.71	21.496		
3,600.0	3,579.0	3,580.1	3,562.0	8.8	8.4	123.19	-286.5	-166.5	349.2	333.0	16.21	21.545		
3,700.0	3,678.3	3,679.5	3,660.6	9.1	8.7	123.11	-296.9	-171.8	360.7	344.0	16.71	21.592		
3,800.0	3,777.6	3,778.8	3,759.3	9.4	9.0	123.02	-307.2	-177.1	372.3	355.1	17.21	21.636		
3,900.0	3,876.8	3,878.1	3,857.9	9.7	9.2	122.94	-317.6	-182.4	383.8	366.1	17.70	21.678		
4,000.0	3,976.1	3,977.5	3,956.6	9.9	9.5	122.87	-328.0	-187.7	395.3	377.1	18.20	21.717		
4,100.0	4,075.4	4,076.8	4,055.2	10.2	9.8	122.80	-338.3	-193.0	406.9	388.2	18.70	21.753		
4,200.0	4,174.6	4,176.1	4,153.9	10.5	10.0	122.73	-348.7	-198.3	418.4	399.2	19.20	21.788		
4,300.0	4,273.9	4,275.5	4,252.5	10.8	10.3	122.67	-359.0	-203.7	429.9	410.2	19.70	21.821		
4,400.0	4,373.2	4,374.8	4,351.2	11.0	10.6	122.61	-369.4	-209.0	441.5	421.3	20.20	21.853		
4,500.0	4,472.5	4,474.1	4,449.8	11.3	10.8	122.56	-379.8	-214.3	453.0	432.3	20.70	21.882		
4,600.0	4,571.7	4,573.5	4,548.5	11.6	11.1	122.50	-390.1	-219.6	464.5	443.3	21.20	21.911		
4,700.0	4,671.0	4,672.8	4,647.1	11.8	11.4	122.45	-400.5	-224.9	476.1	454.4	21.70	21.937		
4,800.0	4,770.3	4,772.1	4,745.7	12.1	11.6	122.40	-410.8	-230.2	487.6	465.4	22.20	21.963		
4,900.0	4,869.5	4,871.5	4,844.4	12.4	11.9	122.36	-421.2	-235.5	499.1	476.4	22.70	21.988		
5,000.0	4,968.8	4,970.8	4,943.0	12.7	12.2	122.32	-431.6	-240.8	510.7	487.5	23.20	22.011		
5,100.0	5,068.1	5,070.1	5,041.7	12.9	12.4	122.27	-441.9	-246.1	522.2	498.5	23.70	22.033		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,167.3	5,169.5	5,140.3	13.2	12.7	122.23	-452.3	-251.4	533.7	509.5	24.20	22.055		
5,300.0	5,266.6	5,268.8	5,239.0	13.5	13.0	122.19	-462.6	-256.8	545.3	520.6	24.70	22.075		
5,400.0	5,365.9	5,368.1	5,337.6	13.8	13.2	122.16	-473.0	-262.1	556.8	531.6	25.20	22.095		
5,500.0	5,465.1	5,467.4	5,436.3	14.0	13.5	122.12	-483.4	-267.4	568.4	542.7	25.70	22.114		
5,600.0	5,564.4	5,566.8	5,534.9	14.3	13.8	122.09	-493.7	-272.7	579.9	553.7	26.20	22.132		
5,700.0	5,663.7	5,666.1	5,633.6	14.6	14.0	122.06	-504.1	-278.0	591.4	564.7	26.70	22.149		
5,800.0	5,763.0	5,765.4	5,732.2	14.9	14.3	122.02	-514.4	-283.3	603.0	575.8	27.20	22.166		
5,900.0	5,862.2	5,864.8	5,830.9	15.1	14.6	121.99	-524.8	-288.6	614.5	586.8	27.70	22.182		
6,000.0	5,961.5	5,964.1	5,929.5	15.4	14.8	121.96	-535.2	-293.9	626.1	597.8	28.20	22.198		
6,100.0	6,060.8	6,063.4	6,028.2	15.7	15.1	121.94	-545.5	-299.2	637.6	608.9	28.70	22.213		
6,200.0	6,160.0	6,162.8	6,126.8	15.9	15.4	121.91	-555.9	-304.6	649.1	619.9	29.20	22.227		
6,300.0	6,259.3	6,262.1	6,225.5	16.2	15.6	121.88	-566.2	-309.9	660.7	631.0	29.70	22.241		
6,400.0	6,358.6	6,361.4	6,324.1	16.5	15.9	121.86	-576.6	-315.2	672.2	642.0	30.21	22.254		
6,500.0	6,457.8	6,460.8	6,422.7	16.8	16.2	121.83	-587.0	-320.5	683.7	653.0	30.71	22.267		
6,600.0	6,557.1	6,560.1	6,521.4	17.0	16.4	121.81	-597.3	-325.8	695.3	664.1	31.21	22.280		
6,700.0	6,656.4	6,659.4	6,620.1	17.3	16.7	121.79	-607.7	-331.1	706.8	675.1	31.71	22.292		
6,800.0	6,756.0	6,758.7	6,718.6	17.5	17.0	121.77	-618.0	-336.4	718.2	686.0	32.21	22.304		
6,900.0	6,855.7	6,857.2	6,816.5	17.6	17.2	121.75	-628.2	-341.7	729.1	696.7	32.71	22.316		
7,000.0	6,954.9	6,956.8	6,915.9	17.6	17.4	121.73	-638.4	-347.0	739.9	707.4	33.21	22.328		
7,100.0	7,052.8	7,058.6	7,016.6	17.5	17.3	121.71	-648.6	-352.3	750.3	718.0	33.71	22.340		
7,200.0	7,148.7	7,161.3	7,115.6	17.3	17.2	121.69	-658.8	-357.6	759.9	728.0	34.21	22.352		
7,300.0	7,241.7	7,264.1	7,209.7	17.1	16.9	121.67	-668.9	-362.8	768.8	737.5	34.71	22.364		
7,400.0	7,331.3	7,365.6	7,296.0	16.8	16.5	121.65	-679.0	-367.9	776.8	746.3	35.21	22.376		
7,500.0	7,416.7	7,464.9	7,372.4	16.5	16.1	121.63	-689.1	-373.0	784.2	754.5	35.71	22.388		
7,600.0	7,497.2	7,561.2	7,437.5	16.2	15.8	121.61	-699.2	-378.1	791.1	762.2	36.21	22.400		
7,700.0	7,572.3	7,653.9	7,490.6	16.0	15.5	121.59	-709.2	-383.2	797.9	769.6	36.71	22.412		
7,800.0	7,640.3	7,743.1	7,532.1	15.8	15.2	121.57	-719.2	-388.2	804.4	776.7	37.21	22.424		
7,900.0	7,697.6	7,829.8	7,562.7	15.7	15.1	121.55	-729.2	-393.2	810.0	782.6	37.71	22.436		
8,000.0	7,742.9	7,914.5	7,583.0	15.7	15.2	121.53	-739.2	-398.2	814.4	787.0	38.21	22.448		
8,100.0	7,775.5	8,000.0	7,593.5	15.9	15.3	121.51	-749.2	-403.2	817.4	789.7	38.71	22.460		
8,200.0	7,794.6	8,086.0	7,595.0	16.2	15.7	121.49	-759.2	-408.2	818.6	790.3	39.21	22.472		
8,300.0	7,800.0	8,185.7	7,595.0	16.7	16.2	121.47	-769.2	-413.2	816.2	786.8	39.71	22.484		
8,400.0	7,800.0	8,285.6	7,595.0	17.4	16.9	121.45	-779.2	-418.2	812.2	781.3	40.21	22.496		
8,500.0	7,800.0	8,385.5	7,595.0	18.3	17.7	121.43	-789.2	-423.2	808.1	775.4	40.71	22.508		
8,600.0	7,800.0	8,485.5	7,595.0	19.2	18.7	121.41	-799.2	-428.2	804.1	769.4	41.21	22.520		
8,700.0	7,800.0	8,585.4	7,595.0	20.3	19.8	121.39	-809.2	-433.2	800.1	763.2	41.71	22.532		
8,800.0	7,800.0	8,685.3	7,595.0	21.4	21.0	121.37	-819.2	-438.2	796.0	756.8	42.21	22.544		
8,900.0	7,800.0	8,785.2	7,595.0	22.6	22.2	121.35	-829.2	-443.2	792.0	750.2	42.71	22.556		
9,000.0	7,800.0	8,885.1	7,595.0	23.9	23.5	121.33	-839.2	-448.2	788.0	743.6	43.21	22.568		
9,100.0	7,800.0	8,985.0	7,595.0	25.3	24.9	121.31	-849.2	-453.2	784.0	736.8	43.71	22.580		
9,200.0	7,800.0	9,084.9	7,595.0	26.7	26.3	121.29	-859.2	-458.2	779.9	730.0	44.21	22.592		
9,300.0	7,800.0	9,184.8	7,595.0	28.1	27.7	121.27	-869.2	-463.2	775.9	723.1	44.71	22.604		
9,400.0	7,800.0	9,284.8	7,595.0	29.6	29.2	121.25	-879.2	-468.2	771.9	716.2	45.21	22.616		
9,500.0	7,800.0	9,384.7	7,595.0	31.1	30.7	121.23	-889.2	-473.2	767.9	709.2	45.71	22.628		
9,600.0	7,800.0	9,484.6	7,595.0	32.6	32.3	121.21	-899.2	-478.2	763.8	702.1	46.21	22.640		
9,700.0	7,800.0	9,584.5	7,595.0	34.2	33.8	121.19	-909.2	-483.2	759.8	695.1	46.71	22.652		
9,800.0	7,800.0	9,684.4	7,595.0	35.7	35.4	121.17	-919.2	-488.2	755.8	688.0	47.21	22.664		
9,900.0	7,800.0	9,784.3	7,595.0	37.3	37.0	121.15	-929.2	-493.2	751.8	680.9	47.71	22.676		
10,000.0	7,800.0	9,884.2	7,595.0	38.9	38.6	121.13	-939.2	-498.2	747.8	673.8	48.21	22.688		
10,100.0	7,800.0	9,984.1	7,595.0	40.5	40.2	121.11	-949.2	-503.2	743.8	666.7	48.71	22.700		
10,200.0	7,800.0	10,084.1	7,595.0	42.2	41.8	121.09	-959.2	-508.2	739.8	659.5	49.21	22.712		
10,300.0	7,800.0	10,184.0	7,595.0	43.8	43.5	121.07	-969.2	-513.2	735.8	652.4	49.71	22.724		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,800.0	10,283.9	7,595.0	45.4	45.1	-73.72	2,323.3	-383.6	731.7	645.2	86.55	8.454	
10,500.0	7,800.0	10,383.8	7,595.0	47.1	46.8	-73.63	2,423.2	-383.6	727.7	638.0	89.72	8.111	
10,600.0	7,800.0	10,483.7	7,595.0	48.7	48.4	-73.53	2,523.1	-383.6	723.7	630.8	92.90	7.791	
10,700.0	7,800.0	10,583.6	7,595.0	50.4	50.1	-73.44	2,623.0	-383.6	719.7	623.7	96.08	7.491	
10,800.0	7,800.0	10,683.5	7,595.0	52.1	51.8	-73.34	2,722.9	-383.6	715.7	616.5	99.27	7.210	
10,900.0	7,800.0	10,783.5	7,595.0	53.7	53.5	-73.25	2,822.9	-383.6	711.7	609.3	102.46	6.946	
11,000.0	7,800.0	10,883.4	7,595.0	55.4	55.1	-73.15	2,922.8	-383.6	707.8	602.1	105.66	6.698	
11,100.0	7,800.0	10,983.3	7,595.0	57.1	56.8	-73.05	3,022.7	-383.6	703.8	594.9	108.86	6.465	
11,200.0	7,800.0	11,083.2	7,595.0	58.8	58.5	-72.95	3,122.6	-383.6	699.8	587.7	112.06	6.245	
11,300.0	7,800.0	11,183.1	7,595.0	60.5	60.2	-72.85	3,222.5	-383.6	695.8	580.5	115.26	6.036	
11,400.0	7,800.0	11,283.0	7,595.0	62.2	61.9	-72.75	3,322.4	-383.6	691.8	573.3	118.47	5.840	
11,500.0	7,800.0	11,382.9	7,595.0	63.9	63.6	-72.65	3,422.3	-383.6	687.8	566.1	121.67	5.653	
11,600.0	7,800.0	11,482.8	7,595.0	65.6	65.3	-72.54	3,522.2	-383.6	683.8	559.0	124.87	5.476	
11,700.0	7,800.0	11,582.8	7,595.0	67.3	67.0	-72.44	3,622.2	-383.6	679.9	551.8	128.08	5.308	
11,800.0	7,800.0	11,682.7	7,595.0	69.0	68.7	-72.33	3,722.1	-383.6	675.9	544.6	131.28	5.148	
11,900.0	7,800.0	11,782.6	7,595.0	70.7	70.4	-72.22	3,822.0	-383.6	671.9	537.4	134.48	4.996	
12,000.0	7,800.0	11,882.5	7,595.0	72.4	72.2	-72.11	3,921.9	-383.6	667.9	530.3	137.67	4.852	
12,100.0	7,800.0	11,982.4	7,595.0	74.2	73.9	-72.01	4,021.8	-383.6	664.2	523.3	140.87	4.715	
12,200.0	7,800.0	12,082.4	7,595.0	75.9	75.6	-71.95	4,121.8	-383.6	661.8	517.7	144.10	4.593	
12,289.7	7,800.0	12,172.1	7,595.0	77.4	77.1	-71.94	4,211.5	-383.6	661.2	514.1	147.03	4.497	
12,300.0	7,800.0	12,182.4	7,595.0	77.6	77.3	-71.94	4,221.8	-383.6	661.2	513.8	147.37	4.487	
12,400.0	7,800.0	12,282.4	7,595.0	79.3	79.0	-71.96	4,321.8	-383.6	662.1	511.5	150.67	4.395	
12,500.0	7,800.0	12,382.4	7,595.0	81.0	80.8	-72.00	4,421.8	-383.6	663.6	509.6	153.99	4.309	
12,600.0	7,800.0	12,482.4	7,595.0	82.8	82.5	-72.04	4,521.8	-383.6	665.0	507.7	157.31	4.227	
12,700.0	7,800.0	12,582.3	7,595.0	84.5	84.2	-72.08	4,621.7	-383.6	666.4	505.8	160.64	4.148	
12,800.0	7,800.0	12,682.3	7,595.0	86.2	85.9	-72.12	4,721.7	-383.6	667.8	503.9	163.96	4.073	
12,900.0	7,800.0	12,782.3	7,595.0	88.0	87.7	-72.16	4,821.7	-383.6	669.2	501.9	167.30	4.000	
13,000.0	7,800.0	12,882.3	7,595.0	89.7	89.4	-72.20	4,921.7	-383.6	670.7	500.0	170.63	3.931	
13,100.0	7,800.0	12,982.3	7,595.0	91.4	91.1	-72.24	5,021.7	-383.6	672.1	498.1	173.97	3.863	
13,200.0	7,800.0	13,082.3	7,595.0	93.2	92.8	-72.28	5,121.7	-383.6	673.5	496.2	177.31	3.799	
13,300.0	7,800.0	13,182.3	7,595.0	94.9	94.6	-72.32	5,221.7	-383.6	674.9	494.3	180.65	3.736	
13,400.0	7,800.0	13,282.3	7,595.0	96.6	96.3	-72.35	5,321.7	-383.6	676.3	492.4	183.99	3.676	
13,500.0	7,800.0	13,382.3	7,595.0	98.4	98.0	-72.39	5,421.7	-383.6	677.8	490.4	187.34	3.618	
13,600.0	7,800.0	13,482.2	7,595.0	100.1	99.8	-72.43	5,521.6	-383.6	679.2	488.5	190.69	3.562	
13,700.0	7,800.0	13,582.2	7,595.0	101.8	101.5	-72.47	5,621.6	-383.6	680.6	486.6	194.04	3.508	
13,800.0	7,800.0	13,682.2	7,595.0	103.6	103.2	-72.51	5,721.6	-383.6	682.0	484.6	197.40	3.455	
13,900.0	7,800.0	13,782.2	7,595.0	105.3	105.0	-72.54	5,821.6	-383.6	683.5	482.7	200.75	3.405	
14,000.0	7,800.0	13,882.2	7,595.0	107.0	106.7	-72.58	5,921.6	-383.6	684.9	480.8	204.11	3.355	
14,100.0	7,800.0	13,982.2	7,595.0	108.8	108.4	-72.62	6,021.6	-383.6	686.3	478.8	207.47	3.308	
14,200.0	7,800.0	14,082.2	7,595.0	110.5	110.2	-72.66	6,121.6	-383.6	687.7	476.9	210.83	3.262	
14,300.0	7,800.0	14,182.2	7,595.0	112.3	111.9	-72.69	6,221.6	-383.6	689.2	475.0	214.20	3.217	
14,400.0	7,800.0	14,282.2	7,595.0	114.0	113.7	-72.73	6,321.6	-383.6	690.6	473.0	217.56	3.174	
14,500.0	7,800.0	14,382.1	7,595.0	115.7	115.4	-72.77	6,421.5	-383.6	692.0	471.1	220.93	3.132	
14,600.0	7,800.0	14,482.1	7,595.0	117.5	117.1	-72.80	6,521.5	-383.6	693.4	469.1	224.30	3.092	
14,700.0	7,800.0	14,582.1	7,595.0	119.2	118.9	-72.84	6,621.5	-383.6	694.9	467.2	227.67	3.052	
14,800.0	7,800.0	14,682.1	7,595.0	121.0	120.6	-72.88	6,721.5	-383.6	696.3	465.2	231.05	3.014	
14,900.0	7,800.0	14,782.1	7,595.0	122.7	122.4	-72.91	6,821.5	-383.6	697.7	463.3	234.42	2.976	
15,000.0	7,800.0	14,882.1	7,595.0	124.4	124.1	-72.95	6,921.5	-383.6	699.1	461.3	237.80	2.940	
15,100.0	7,800.0	14,982.1	7,595.0	126.2	125.8	-72.98	7,021.5	-383.6	700.6	459.4	241.18	2.905	
15,200.0	7,800.0	15,082.1	7,595.0	127.9	127.6	-73.02	7,121.5	-383.6	702.0	457.4	244.56	2.870	
15,300.0	7,800.0	15,182.1	7,595.0	129.7	129.3	-73.05	7,221.5	-383.6	703.4	455.5	247.94	2.837	
15,400.0	7,800.0	15,282.0	7,595.0	131.4	131.1	-73.09	7,321.4	-383.6	704.9	453.5	251.32	2.805	

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
15,500.0	7,800.0	15,382.0	7,595.0	133.2	132.8	-73.13	7,421.4	-383.6	706.3	451.6	254.71	2.773		
15,600.0	7,800.0	15,482.0	7,595.0	134.9	134.5	-73.16	7,521.4	-383.6	707.7	449.6	258.09	2.742		
15,700.0	7,800.0	15,582.0	7,595.0	136.7	136.3	-73.20	7,621.4	-383.6	709.1	447.7	261.48	2.712		
15,800.0	7,800.0	15,682.0	7,595.0	138.4	138.0	-73.23	7,721.4	-383.6	710.6	445.7	264.87	2.683		
15,900.0	7,800.0	15,782.0	7,595.0	140.1	139.8	-73.26	7,821.4	-383.6	712.0	443.7	268.26	2.654		
16,000.0	7,800.0	15,882.0	7,595.0	141.9	141.5	-73.30	7,921.4	-383.6	713.4	441.8	271.65	2.626		
16,100.0	7,800.0	15,982.0	7,595.0	143.6	143.3	-73.33	8,021.4	-383.6	714.9	439.8	275.05	2.599		
16,200.0	7,800.0	16,082.0	7,595.0	145.4	145.0	-73.37	8,121.4	-383.6	716.3	437.9	278.44	2.573		
16,300.0	7,800.0	16,181.9	7,595.0	147.1	146.8	-73.40	8,221.3	-383.6	717.7	435.9	281.84	2.547		
16,400.0	7,800.0	16,281.9	7,595.0	148.9	148.5	-73.44	8,321.3	-383.6	719.2	433.9	285.23	2.521		
16,500.0	7,800.0	16,381.9	7,595.0	150.6	150.2	-73.47	8,421.3	-383.6	720.6	432.0	288.63	2.497		
16,600.0	7,800.0	16,481.9	7,595.0	152.4	152.0	-73.50	8,521.3	-383.6	722.0	430.0	292.03	2.472		
16,700.0	7,800.0	16,581.9	7,595.0	154.1	153.7	-73.54	8,621.3	-383.6	723.5	428.0	295.43	2.449		
16,800.0	7,800.0	16,681.9	7,595.0	155.9	155.5	-73.57	8,721.3	-383.6	724.9	426.1	298.83	2.426		
16,900.0	7,800.0	16,781.9	7,595.0	157.6	157.2	-73.60	8,821.3	-383.6	726.3	424.1	302.23	2.403		
17,000.0	7,800.0	16,830.8	7,595.0	159.4	158.1	-73.62	8,870.2	-383.6	729.5	425.5	304.08	2.399 SF		
17,100.0	7,800.0	16,830.8	7,595.0	161.1	158.1	-73.62	8,870.2	-383.6	744.7	444.3	300.39	2.479		
17,112.8	7,800.0	16,830.8	7,595.0	161.3	158.1	-73.62	8,870.2	-383.6	747.6	448.0	299.56	2.496		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.1	0.1	-89.96	0.0	-11.2	11.2	11.0	0.25	44.889		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.6	0.60	18.715		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.3	0.95	11.822		
400.0	400.0	400.0	400.0	0.6	0.6	-89.96	0.0	-11.2	11.2	9.9	1.30	8.639		
500.0	500.0	500.0	500.0	0.8	0.8	-89.96	0.0	-11.2	11.2	9.6	1.65	6.807 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	128.07	0.0	-11.2	12.2	10.2	2.00	6.110		
700.0	699.8	699.8	699.8	1.2	1.2	142.97	0.0	-11.2	16.0	13.6	2.35	6.797		
800.0	799.5	799.5	799.5	1.4	1.3	155.79	0.0	-11.2	23.5	20.8	2.70	8.710		
900.0	898.8	898.8	898.8	1.6	1.5	163.74	0.0	-11.2	34.5	31.5	3.05	11.326		
1,000.0	998.0	998.0	998.0	1.9	1.7	167.93	0.0	-11.2	46.2	42.8	3.40	13.619		
1,100.0	1,097.3	1,097.3	1,097.3	2.1	1.9	170.42	0.0	-11.2	58.1	54.4	3.74	15.525		
1,200.0	1,196.6	1,196.6	1,196.6	2.4	2.0	172.06	0.0	-11.2	70.0	65.9	4.09	17.126		
1,300.0	1,295.8	1,295.8	1,295.8	2.6	2.2	173.23	0.0	-11.2	82.0	77.6	4.44	18.485		
1,400.0	1,395.1	1,395.1	1,395.1	2.9	2.4	174.10	0.0	-11.2	94.0	89.2	4.78	19.652		
1,500.0	1,494.4	1,494.4	1,494.4	3.2	2.6	174.77	0.0	-11.2	106.0	100.9	5.13	20.664		
1,600.0	1,593.6	1,593.6	1,593.6	3.4	2.7	175.30	0.0	-11.2	118.0	112.6	5.48	21.550		
1,700.0	1,692.9	1,692.9	1,692.9	3.7	2.9	175.74	0.0	-11.2	130.1	124.2	5.82	22.332		
1,800.0	1,792.2	1,792.2	1,792.2	4.0	3.1	176.10	0.0	-11.2	142.1	135.9	6.17	23.027		
1,900.0	1,891.5	1,891.5	1,891.5	4.2	3.3	176.40	0.0	-11.2	154.1	147.6	6.52	23.648		
2,000.0	1,990.7	1,990.7	1,990.7	4.5	3.4	176.66	0.0	-11.2	166.2	159.3	6.87	24.207		
2,100.0	2,090.0	2,092.8	2,092.8	4.8	3.6	176.84	-0.7	-10.9	177.5	170.3	7.22	24.588		
2,200.0	2,189.3	2,195.5	2,195.5	5.0	3.8	176.87	-3.1	-10.0	187.1	179.6	7.58	24.703		
2,300.0	2,288.5	2,298.6	2,298.4	5.3	4.0	176.78	-7.2	-8.4	195.0	187.1	7.93	24.589		
2,400.0	2,387.8	2,401.9	2,401.5	5.6	4.2	176.57	-13.1	-6.1	201.1	192.8	8.29	24.273		
2,500.0	2,487.1	2,505.3	2,504.7	5.9	4.3	176.26	-20.8	-3.2	205.5	196.9	8.64	23.782		
2,600.0	2,586.3	2,608.9	2,607.8	6.1	4.6	175.84	-30.1	0.5	208.1	199.1	9.00	23.134		
2,700.0	2,685.6	2,712.6	2,710.7	6.4	4.8	175.29	-41.3	4.8	209.0	199.7	9.35	22.348		
2,800.0	2,784.9	2,815.2	2,812.5	6.7	5.0	174.64	-53.9	9.7	208.2	198.5	9.71	21.443		
2,900.0	2,884.1	2,915.2	2,911.5	6.9	5.2	173.95	-66.7	14.6	207.0	196.9	10.07	20.551		
3,000.0	2,983.4	3,015.1	3,010.5	7.2	5.5	173.26	-79.5	19.6	205.8	195.4	10.44	19.719		
3,100.0	3,082.7	3,115.1	3,109.5	7.5	5.7	172.56	-92.3	24.6	204.6	193.8	10.80	18.941		
3,200.0	3,182.0	3,215.0	3,208.5	7.8	5.9	171.86	-105.1	29.5	203.5	192.3	11.17	18.212		
3,300.0	3,281.2	3,315.0	3,307.5	8.0	6.2	171.14	-117.9	34.5	202.4	190.8	11.55	17.527		
3,400.0	3,380.5	3,415.0	3,406.6	8.3	6.4	170.42	-130.6	39.4	201.3	189.4	11.93	16.882		
3,500.0	3,479.8	3,514.9	3,505.6	8.6	6.7	169.69	-143.4	44.4	200.3	188.0	12.31	16.275		
3,600.0	3,579.0	3,614.9	3,604.6	8.8	7.0	168.95	-156.2	49.3	199.3	186.6	12.69	15.701		
3,700.0	3,678.3	3,714.9	3,703.6	9.1	7.2	168.21	-169.0	54.3	198.3	185.2	13.08	15.158		
3,800.0	3,777.6	3,814.8	3,802.6	9.4	7.5	167.46	-181.8	59.2	197.4	183.9	13.48	14.644		
3,900.0	3,876.8	3,914.8	3,901.6	9.7	7.8	166.70	-194.6	64.2	196.5	182.6	13.88	14.156		
4,000.0	3,976.1	4,014.7	4,000.7	9.9	8.0	165.93	-207.4	69.2	195.6	181.3	14.28	13.694		
4,100.0	4,075.4	4,114.7	4,099.7	10.2	8.3	165.16	-220.2	74.1	194.7	180.1	14.69	13.254		
4,200.0	4,174.6	4,214.7	4,198.7	10.5	8.6	164.38	-233.0	79.1	193.9	178.8	15.11	12.835		
4,300.0	4,273.9	4,314.6	4,297.7	10.8	8.8	163.60	-245.7	84.0	193.2	177.6	15.53	12.437		
4,400.0	4,373.2	4,414.6	4,396.7	11.0	9.1	162.81	-258.5	89.0	192.5	176.5	15.96	12.057		
4,500.0	4,472.5	4,514.6	4,495.7	11.3	9.4	162.01	-271.3	93.9	191.8	175.4	16.40	11.694		
4,600.0	4,571.7	4,614.5	4,594.8	11.6	9.7	161.21	-284.1	98.9	191.1	174.3	16.84	11.348		
4,700.0	4,671.0	4,714.5	4,693.8	11.8	10.0	160.40	-296.9	103.8	190.5	173.2	17.29	11.018		
4,800.0	4,770.3	4,814.4	4,792.8	12.1	10.2	159.58	-309.7	108.8	189.9	172.2	17.75	10.702		
4,900.0	4,869.5	4,914.4	4,891.8	12.4	10.5	158.77	-322.5	113.7	189.4	171.2	18.21	10.400		
5,000.0	4,968.8	5,014.4	4,990.8	12.7	10.8	157.94	-335.3	118.7	188.9	170.2	18.68	10.111		
5,100.0	5,068.1	5,114.3	5,089.8	12.9	11.1	157.12	-348.1	123.7	188.4	169.3	19.16	9.835		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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	5,167.3	5,214.3	5,188.9	13.2	11.4	156.29	-360.8	128.6	188.0	168.4	19.64	9.570		
5,300.0	5,266.6	5,314.2	5,287.9	13.5	11.7	155.45	-373.6	133.6	187.6	167.5	20.14	9.317		
5,400.0	5,365.9	5,414.2	5,386.9	13.8	11.9	154.62	-386.4	138.5	187.3	166.6	20.64	9.074		
5,500.0	5,465.1	5,514.2	5,485.9	14.0	12.2	153.78	-399.2	143.5	187.0	165.8	21.15	8.842		
5,600.0	5,564.4	5,614.1	5,584.9	14.3	12.5	152.93	-412.0	148.4	186.7	165.0	21.66	8.619		
5,700.0	5,663.7	5,714.1	5,683.9	14.6	12.8	152.09	-424.8	153.4	186.5	164.3	22.19	8.406		
5,800.0	5,763.0	5,814.1	5,783.0	14.9	13.1	151.24	-437.6	158.3	186.3	163.6	22.72	8.202		
5,900.0	5,862.2	5,914.0	5,882.0	15.1	13.4	150.39	-450.4	163.3	186.2	162.9	23.25	8.006		
6,000.0	5,961.5	6,014.0	5,981.0	15.4	13.7	149.54	-463.1	168.3	186.1	162.3	23.80	7.818		
6,100.0	6,060.8	6,113.9	6,080.0	15.7	13.9	148.69	-475.9	173.2	186.0	161.7	24.35	7.638		
6,189.8	6,149.9	6,203.7	6,168.9	15.9	14.2	147.93	-487.4	177.7	186.0	161.1	24.86	7.483		
6,200.0	6,160.0	6,213.9	6,179.0	15.9	14.2	147.84	-488.7	178.2	186.0	161.1	24.91	7.466		
6,300.0	6,259.3	6,313.9	6,278.0	16.2	14.5	146.99	-501.5	183.1	186.0	160.5	25.48	7.300		
6,400.0	6,358.6	6,413.8	6,377.1	16.5	14.8	146.14	-514.3	188.1	186.1	160.0	26.06	7.142		
6,500.0	6,457.8	6,513.8	6,476.1	16.8	15.1	145.29	-527.1	193.0	186.2	159.6	26.64	6.990		
6,600.0	6,557.1	6,613.8	6,575.1	17.0	15.4	144.45	-539.9	198.0	186.3	159.1	27.22	6.845		
6,700.0	6,656.4	6,713.7	6,674.1	17.3	15.7	143.60	-552.7	202.9	186.5	158.7	27.82	6.706		
6,800.0	6,756.0	6,813.5	6,772.9	17.5	16.0	142.72	-565.4	207.9	185.2	157.7	28.54	6.490		
6,900.0	6,855.7	6,912.3	6,870.8	17.6	16.3	141.16	-578.1	212.8	181.2	151.6	29.60	6.120		
7,000.0	6,954.9	7,009.4	6,967.0	17.6	16.5	140.52	-590.5	217.6	176.5	145.5	31.00	5.693		
7,085.4	7,038.7	7,090.5	7,047.4	17.5	16.8	140.27	-600.9	221.6	174.6	142.3	32.32	5.401		
7,100.0	7,052.8	7,104.1	7,060.8	17.5	16.8	140.22	-602.6	222.3	174.6	142.1	32.55	5.366		
7,200.0	7,148.7	7,195.7	7,151.5	17.3	17.1	141.24	-614.3	226.8	180.1	146.4	33.78	5.333		
7,300.0	7,241.7	7,284.9	7,239.9	17.1	17.3	142.89	-625.6	231.3	197.2	163.0	34.24	5.760		
7,400.0	7,331.3	7,389.0	7,343.8	16.8	17.5	143.58	-629.7	236.1	223.3	189.4	33.87	6.593		
7,500.0	7,416.7	7,505.4	7,459.1	16.5	17.5	143.95	-616.3	240.9	251.5	218.6	32.92	7.640		
7,600.0	7,497.2	7,634.6	7,582.8	16.2	17.2	143.11	-579.8	245.3	277.1	245.6	31.46	8.807		
7,700.0	7,572.3	7,775.8	7,708.1	16.0	16.8	146.31	-515.4	248.7	296.4	266.9	29.49	10.052		
7,800.0	7,640.3	7,925.7	7,824.6	15.8	16.2	147.63	-421.4	250.7	308.3	281.2	27.14	11.362		
7,900.0	7,697.6	8,080.4	7,921.7	15.7	15.6	148.04	-301.4	251.0	314.2	289.4	24.71	12.711		
8,000.0	7,742.9	8,236.5	7,991.4	15.7	15.2	147.67	-162.1	249.3	313.5	290.7	22.86	13.716		
8,100.0	7,775.5	8,390.5	8,029.0	15.9	15.3	146.47	-13.1	245.8	306.5	284.3	22.27	13.763		
8,200.0	7,794.6	8,523.5	8,036.0	16.2	15.7	144.81	119.5	241.5	294.6	271.5	23.10	12.755		
8,300.0	7,800.0	8,623.3	8,036.0	16.7	16.2	144.46	219.2	238.0	290.0	266.1	23.98	12.096		
8,400.0	7,800.0	8,723.3	8,036.0	17.4	16.9	144.57	319.2	234.5	289.6	264.8	24.87	11.644		
8,500.0	7,800.0	8,823.3	8,036.0	18.3	17.7	144.68	419.1	231.0	289.2	263.3	25.90	11.168		
8,600.0	7,800.0	8,923.3	8,036.0	19.2	18.6	144.79	519.0	227.5	288.8	261.8	27.03	10.684		
8,700.0	7,800.0	9,023.3	8,036.0	20.3	19.7	144.90	619.0	224.0	288.5	260.2	28.26	10.206		
8,800.0	7,800.0	9,123.3	8,036.0	21.4	20.9	145.02	718.9	220.5	288.1	258.5	29.57	9.740		
8,900.0	7,800.0	9,223.3	8,036.0	22.6	22.1	145.13	818.9	217.1	287.7	256.7	30.95	9.294		
9,000.0	7,800.0	9,323.3	8,036.0	23.9	23.4	145.24	918.8	213.6	287.3	254.9	32.39	8.870		
9,100.0	7,800.0	9,423.3	8,036.0	25.3	24.8	145.35	1,018.7	210.1	286.9	253.0	33.87	8.470		
9,200.0	7,800.0	9,523.3	8,036.0	26.7	26.2	145.46	1,118.7	206.6	286.5	251.1	35.40	8.094		
9,300.0	7,800.0	9,623.3	8,036.0	28.1	27.6	145.58	1,218.6	203.1	286.1	249.2	36.95	7.742		
9,400.0	7,800.0	9,723.3	8,036.0	29.6	29.1	145.69	1,318.5	199.6	285.7	247.2	38.54	7.414		
9,500.0	7,800.0	9,823.3	8,036.0	31.1	30.6	145.80	1,418.5	196.1	285.3	245.2	40.15	7.108		
9,600.0	7,800.0	9,923.3	8,036.0	32.6	32.1	145.91	1,518.4	192.6	285.0	243.2	41.77	6.822		
9,700.0	7,800.0	10,023.3	8,036.0	34.2	33.7	146.03	1,618.4	189.1	284.6	241.2	43.41	6.555		
9,800.0	7,800.0	10,123.3	8,036.0	35.7	35.3	146.14	1,718.3	185.7	284.2	239.1	45.06	6.306		
9,900.0	7,800.0	10,223.3	8,036.0	37.3	36.9	146.26	1,818.2	182.2	283.8	237.1	46.73	6.074		
10,000.0	7,800.0	10,323.2	8,036.0	38.9	38.5	146.37	1,918.2	178.7	283.4	235.0	48.39	5.857		
10,100.0	7,800.0	10,423.2	8,036.0	40.5	40.1	146.49	2,018.1	175.2	283.1	233.0	50.07	5.654		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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		
10,200.0	7,800.0	10,523.2	8,036.0	42.2	41.7	-146.60	2,118.0	171.7	282.7	230.9	51.74	5.464		
10,300.0	7,800.0	10,623.2	8,036.0	43.8	43.4	-146.72	2,218.0	168.2	282.3	228.9	53.42	5.285		
10,400.0	7,800.0	10,723.2	8,036.0	45.4	45.0	-146.83	2,317.9	164.7	281.9	226.8	55.09	5.118		
10,500.0	7,800.0	10,823.2	8,036.0	47.1	46.7	-146.95	2,417.8	161.2	281.6	224.8	56.77	4.960		
10,600.0	7,800.0	10,923.2	8,036.0	48.7	48.3	-147.07	2,517.8	157.7	281.2	222.8	58.44	4.812		
10,700.0	7,800.0	11,023.2	8,036.0	50.4	50.0	-147.18	2,617.7	154.2	280.8	220.7	60.11	4.672		
10,800.0	7,800.0	11,123.2	8,036.0	52.1	51.7	-147.30	2,717.7	150.8	280.5	218.7	61.77	4.540		
10,900.0	7,800.0	11,223.2	8,036.0	53.7	53.3	-147.42	2,817.6	147.3	280.1	216.7	63.43	4.415		
11,000.0	7,800.0	11,323.2	8,036.0	55.4	55.0	-147.54	2,917.5	143.8	279.7	214.6	65.09	4.298		
11,100.0	7,800.0	11,423.2	8,036.0	57.1	56.7	-147.65	3,017.5	140.3	279.4	212.6	66.73	4.186		
11,182.7	7,800.0	11,504.9	8,036.0	58.5	58.1	-147.73	3,099.1	137.3	279.1	211.0	68.09	4.099		
11,200.0	7,800.0	11,521.8	8,036.0	58.8	58.4	-147.72	3,115.9	136.6	279.1	210.7	68.39	4.081		
11,300.0	7,800.0	11,620.1	8,036.0	60.5	60.1	-147.54	3,214.1	131.4	279.7	209.3	70.41	3.973		
11,400.0	7,800.0	11,720.1	8,036.0	62.2	61.8	-147.30	3,313.9	125.8	280.5	207.9	72.61	3.863		
11,500.0	7,800.0	11,820.0	8,036.0	63.9	63.5	-147.05	3,413.8	120.2	281.2	206.4	74.84	3.758		
11,600.0	7,800.0	11,920.0	8,036.0	65.6	65.2	-146.81	3,513.6	114.6	282.0	204.9	77.10	3.658		
11,700.0	7,800.0	12,020.0	8,036.0	67.3	66.9	-146.57	3,613.4	109.0	282.8	203.4	79.38	3.563		
11,800.0	7,800.0	12,120.0	8,036.0	69.0	68.6	-146.33	3,713.3	103.4	283.6	201.9	81.69	3.472		
11,900.0	7,800.0	12,220.0	8,036.0	70.7	70.3	-146.09	3,813.1	97.8	284.4	200.4	84.02	3.385		
12,000.0	7,800.0	12,320.0	8,036.0	72.4	72.0	-145.85	3,912.9	92.2	285.2	198.8	86.37	3.302		
12,100.0	7,800.0	12,420.0	8,036.0	74.2	73.7	-145.58	4,012.8	86.6	286.1	197.3	88.81	3.222		
12,200.0	7,800.0	12,519.9	8,036.0	75.9	75.4	-145.08	4,112.6	81.1	287.9	196.2	91.75	3.138		
12,300.0	7,800.0	12,619.8	8,036.0	77.6	77.1	-144.31	4,212.3	75.5	290.8	195.5	95.27	3.052		
12,400.0	7,800.0	12,719.6	8,036.0	79.3	78.9	-143.29	4,311.9	69.9	294.7	195.3	99.35	2.966		
12,500.0	7,800.0	12,819.3	8,036.0	81.0	80.6	-142.20	4,411.5	64.3	299.0	195.4	103.59	2.886		
12,600.0	7,800.0	12,919.1	8,036.0	82.8	82.3	-141.14	4,511.1	58.7	303.4	195.5	107.86	2.812		
12,700.0	7,800.0	13,018.8	8,036.0	84.5	84.0	-140.12	4,610.7	53.1	307.9	195.7	112.14	2.745		
12,800.0	7,800.0	13,118.6	8,036.0	86.2	85.7	-139.12	4,710.3	47.5	312.5	196.0	116.43	2.684		
12,900.0	7,800.0	13,218.3	8,036.0	88.0	87.5	-138.16	4,809.9	41.9	317.2	196.4	120.72	2.627		
13,000.0	7,800.0	13,318.1	8,036.0	89.7	89.2	-137.22	4,909.5	36.4	321.9	196.9	125.01	2.575		
13,100.0	7,800.0	13,417.8	8,036.0	91.4	90.9	-136.31	5,009.0	30.8	326.8	197.5	129.30	2.527		
13,200.0	7,800.0	13,517.6	8,036.0	93.2	92.6	-135.42	5,108.6	25.2	331.7	198.1	133.59	2.483		
13,300.0	7,800.0	13,617.3	8,036.0	94.9	94.4	-134.56	5,208.2	19.6	336.8	198.9	137.88	2.442		
13,400.0	7,800.0	13,717.1	8,036.0	96.6	96.1	-133.73	5,307.8	14.0	341.9	199.7	142.16	2.405		
13,500.0	7,800.0	13,816.8	8,036.0	98.4	97.8	-132.92	5,407.4	8.4	347.0	200.6	146.43	2.370		
13,600.0	7,800.0	13,916.6	8,036.0	100.1	99.6	-132.14	5,507.0	2.9	352.2	201.6	150.69	2.338		
13,700.0	7,800.0	14,016.3	8,036.0	101.8	101.3	-131.38	5,606.6	-2.7	357.5	202.6	154.94	2.308		
13,800.0	7,800.0	14,116.1	8,036.0	103.6	103.0	-130.64	5,706.2	-8.3	362.9	203.7	159.18	2.280		
13,900.0	7,800.0	14,215.8	8,036.0	105.3	104.8	-129.92	5,805.8	-13.9	368.3	204.9	163.41	2.254		
14,000.0	7,800.0	14,315.6	8,036.0	107.0	106.5	-129.22	5,905.4	-19.5	373.8	206.2	167.62	2.230		
14,100.0	7,800.0	14,418.5	8,036.0	108.8	108.3	-128.56	6,008.2	-24.9	379.1	207.1	171.91	2.205		
14,200.0	7,800.0	14,523.9	8,036.0	110.5	110.1	-128.06	6,113.5	-28.7	383.1	207.1	175.93	2.177		
14,300.0	7,800.0	14,629.4	8,036.0	112.3	111.9	-127.74	6,219.0	-30.6	385.6	206.1	179.52	2.148		
14,400.0	7,800.0	14,732.0	8,036.0	114.0	113.7	-127.58	6,321.6	-30.8	387.0	204.3	182.69	2.118		
14,500.0	7,800.0	14,832.0	8,036.0	115.7	115.5	-127.45	6,421.5	-30.8	388.2	202.4	185.77	2.089		
14,600.0	7,800.0	14,932.0	8,036.0	117.5	117.2	-127.31	6,521.5	-30.8	389.3	200.5	188.85	2.062		
14,700.0	7,800.0	15,031.9	8,036.0	119.2	118.9	-127.18	6,621.5	-30.8	390.5	198.6	191.94	2.035		
14,800.0	7,800.0	15,131.9	8,036.0	121.0	120.7	-127.05	6,721.5	-30.8	391.7	196.7	195.04	2.008		
14,900.0	7,800.0	15,231.9	8,036.0	122.7	122.4	-126.92	6,821.5	-30.8	392.9	194.8	198.15	1.983		
15,000.0	7,800.0	15,331.9	8,036.0	124.4	124.2	-126.79	6,921.5	-30.8	394.1	192.8	201.26	1.958		
15,100.0	7,800.0	15,431.9	8,036.0	126.2	125.9	-126.66	7,021.5	-30.8	395.3	190.9	204.38	1.934		
15,200.0	7,800.0	15,531.9	8,036.0	127.9	127.6	-126.53	7,121.5	-30.8	396.5	189.0	207.51	1.911		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4E-29H-P168 - Hz - Plan #4 Ext													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (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	
15,300.0	7,800.0	15,631.9	8,036.0	129.7	129.4	-126.40	7,221.5	-30.8	397.7	187.1	210.64	1.888		
15,400.0	7,800.0	15,731.9	8,036.0	131.4	131.1	-126.27	7,321.4	-30.8	398.9	185.1	213.78	1.866		
15,500.0	7,800.0	15,831.9	8,036.0	133.2	132.9	-126.15	7,421.4	-30.8	400.1	183.2	216.93	1.844		
15,600.0	7,800.0	15,931.8	8,036.0	134.9	134.6	-126.02	7,521.4	-30.8	401.3	181.2	220.09	1.823		
15,700.0	7,800.0	16,031.8	8,036.0	136.7	136.4	-125.90	7,621.4	-30.8	402.5	179.3	223.25	1.803		
15,800.0	7,800.0	16,131.8	8,036.0	138.4	138.1	-125.77	7,721.4	-30.8	403.7	177.3	226.41	1.783		
15,900.0	7,800.0	16,231.8	8,036.0	140.1	139.8	-125.65	7,821.4	-30.8	405.0	175.4	229.59	1.764		
16,000.0	7,800.0	16,331.8	8,036.0	141.9	141.6	-125.53	7,921.4	-30.8	406.2	173.4	232.76	1.745		
16,100.0	7,800.0	16,431.8	8,036.0	143.6	143.3	-125.41	8,021.4	-30.8	407.4	171.4	235.95	1.727		
16,200.0	7,800.0	16,531.8	8,036.0	145.4	145.1	-125.28	8,121.4	-30.8	408.6	169.5	239.14	1.709		
16,300.0	7,800.0	16,631.8	8,036.0	147.1	146.8	-125.16	8,221.3	-30.8	409.8	167.5	242.34	1.691		
16,400.0	7,800.0	16,731.8	8,036.0	148.9	148.6	-125.04	8,321.3	-30.8	411.0	165.5	245.54	1.674		
16,500.0	7,800.0	16,831.7	8,036.0	150.6	150.3	-124.92	8,421.3	-30.8	412.3	163.5	248.75	1.657		
16,600.0	7,800.0	16,931.7	8,036.0	152.4	152.1	-124.81	8,521.3	-30.8	413.5	161.5	251.96	1.641		
16,700.0	7,800.0	17,031.7	8,036.0	154.1	153.8	-124.69	8,621.3	-30.8	414.7	159.5	255.18	1.625		
16,800.0	7,800.0	17,131.7	8,036.0	155.9	155.5	-124.57	8,721.3	-30.8	415.9	157.5	258.41	1.610		
16,900.0	7,800.0	17,231.7	8,036.0	157.6	157.3	-124.45	8,821.3	-30.8	417.2	155.5	261.64	1.594		
17,000.0	7,800.0	17,331.7	8,036.0	159.4	159.0	-124.34	8,921.3	-30.8	418.4	153.5	264.87	1.580		
17,100.0	7,800.0	17,431.7	8,036.0	161.1	160.8	-124.22	9,021.3	-30.8	419.6	151.5	268.11	1.565		
17,112.8	7,800.0	17,444.5	8,036.0	161.3	161.0	-124.21	9,034.1	-30.8	419.8	151.3	268.53	1.563 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - FINAL													Offset Site Error:	0.0 ft
Survey Program: 167-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.1	0.1	90.31	0.0	8.6	8.6	8.3	0.27	31.942 ES		
200.0	200.0	199.9	199.9	0.3	0.3	90.86	-0.1	9.2	9.2	8.6	0.60	15.351		
300.0	300.0	299.9	299.9	0.5	0.5	90.83	-0.1	9.8	9.8	8.8	0.95	10.301		
400.0	400.0	399.9	399.9	0.6	0.7	94.78	-0.9	10.6	10.6	9.3	1.30	8.168		
500.0	500.0	499.7	499.7	0.8	0.8	105.35	-3.3	12.0	12.5	10.8	1.65	7.568		
600.0	600.0	599.2	599.1	1.0	1.0	-37.59	-7.1	15.2	15.4	13.4	2.00	7.715		
700.0	699.8	698.7	698.2	1.2	1.2	-37.46	-12.7	20.8	18.6	16.2	2.35	7.885		
800.0	799.5	797.9	796.8	1.4	1.5	-39.15	-20.8	28.8	22.2	19.5	2.73	8.135		
900.0	898.8	897.5	895.3	1.6	1.8	-43.54	-30.2	39.3	26.3	23.2	3.14	8.384		
1,000.0	998.0	997.9	994.9	1.9	2.0	-49.10	-38.7	49.3	29.6	26.0	3.59	8.239		
1,100.0	1,097.3	1,097.5	1,093.6	2.1	2.3	-52.72	-47.5	59.0	32.9	28.8	4.06	8.090		
1,200.0	1,196.6	1,196.5	1,191.3	2.4	2.6	-53.25	-57.9	70.7	38.4	33.9	4.52	8.509		
1,300.0	1,295.8	1,296.1	1,289.5	2.6	2.9	-54.12	-68.2	83.6	45.2	40.2	4.99	9.056		
1,400.0	1,395.1	1,395.6	1,387.7	2.9	3.3	-55.59	-77.7	96.9	52.3	46.8	5.47	9.558		
1,500.0	1,494.4	1,495.8	1,486.6	3.2	3.6	-57.82	-86.2	110.6	59.7	53.7	5.99	9.957		
1,600.0	1,593.6	1,596.9	1,586.6	3.4	3.9	-59.10	-95.2	122.4	65.2	58.7	6.52	10.002		
1,700.0	1,692.9	1,696.8	1,685.4	3.7	4.2	-58.90	-105.8	132.9	69.5	62.5	7.00	9.926		
1,800.0	1,792.2	1,796.7	1,784.2	4.0	4.5	-59.28	-115.6	143.9	74.2	66.7	7.50	9.899		
1,900.0	1,891.5	1,896.7	1,883.2	4.2	4.8	-59.60	-125.5	154.5	78.7	70.7	8.02	9.820		
2,000.0	1,990.7	1,996.1	1,981.3	4.5	5.1	-58.73	-136.9	165.4	83.4	74.9	8.48	9.838		
2,100.0	2,090.0	2,095.8	2,079.7	4.8	5.4	-58.61	-147.4	176.8	88.7	79.7	8.96	9.891		
2,200.0	2,189.3	2,195.4	2,178.2	5.0	5.7	-59.11	-156.9	188.4	94.1	84.6	9.47	9.935		
2,300.0	2,288.5	2,294.7	2,276.4	5.3	6.1	-59.84	-165.9	200.3	100.0	90.0	9.99	10.004		
2,400.0	2,387.8	2,394.5	2,375.0	5.6	6.4	-60.79	-174.3	212.7	106.2	95.7	10.53	10.090		
2,500.0	2,487.1	2,496.2	2,475.7	5.9	6.7	-61.30	-183.7	224.2	111.4	100.3	11.07	10.064		
2,600.0	2,586.3	2,595.7	2,574.2	6.1	7.0	-61.62	-193.1	234.9	115.9	104.3	11.58	10.010		
2,700.0	2,685.6	2,695.0	2,672.4	6.4	7.3	-62.09	-202.1	246.1	121.1	109.0	12.10	10.004		
2,800.0	2,784.9	2,795.6	2,772.0	6.7	7.6	-62.72	-210.9	257.4	126.2	113.6	12.65	9.981		
2,900.0	2,884.1	2,897.0	2,872.3	6.9	7.9	-62.67	-221.2	267.8	130.2	117.1	13.16	9.893		
3,000.0	2,983.4	2,997.1	2,971.4	7.2	8.2	-62.60	-231.5	277.4	133.7	120.0	13.68	9.773		
3,100.0	3,082.7	3,096.8	3,069.9	7.5	8.5	-61.79	-243.5	287.2	137.2	123.0	14.14	9.699		
3,200.0	3,182.0	3,197.2	3,169.1	7.8	8.8	-61.11	-255.3	297.1	140.8	126.2	14.61	9.639		
3,300.0	3,281.2	3,294.8	3,265.7	8.0	9.2	-60.87	-265.8	306.8	144.5	129.4	15.09	9.574		
3,400.0	3,380.5	3,393.1	3,362.7	8.3	9.5	-60.62	-276.5	318.6	150.2	134.7	15.57	9.651		
3,500.0	3,479.8	3,494.1	3,462.4	8.6	9.8	-60.50	-287.0	330.6	156.0	139.9	16.07	9.707		
3,600.0	3,579.0	3,595.7	3,562.9	8.8	10.1	-60.64	-297.0	341.7	160.7	144.1	16.59	9.686		
3,700.0	3,678.3	3,696.0	3,662.3	9.1	10.4	-61.19	-305.7	351.8	164.6	147.5	17.12	9.617		
3,800.0	3,777.6	3,792.3	3,757.8	9.4	10.7	-62.06	-312.9	362.4	169.5	151.9	17.68	9.592		
3,900.0	3,876.8	3,893.1	3,857.5	9.7	11.0	-62.56	-321.4	374.5	175.5	157.2	18.24	9.623		
4,000.0	3,976.1	3,991.1	3,954.1	9.9	11.3	-62.31	-331.9	386.5	181.5	162.8	18.73	9.689		
4,100.0	4,075.4	4,091.9	4,053.6	10.2	11.7	-62.01	-342.9	399.1	187.8	168.6	19.21	9.773		
4,200.0	4,174.6	4,192.1	4,152.4	10.5	12.0	-61.75	-353.8	411.4	193.7	174.0	19.71	9.829		
4,300.0	4,273.9	4,293.6	4,252.6	10.8	12.3	-61.48	-364.9	423.1	199.1	178.9	20.20	9.856		
4,400.0	4,373.2	4,394.6	4,352.5	11.0	12.6	-61.53	-375.0	434.2	203.8	183.1	20.71	9.843		
4,500.0	4,472.5	4,494.0	4,451.0	11.3	12.9	-61.94	-383.6	444.4	208.0	186.8	21.25	9.789		
4,600.0	4,571.7	4,590.8	4,546.6	11.6	13.3	-62.05	-392.9	456.0	213.8	192.0	21.76	9.824		
4,700.0	4,671.0	4,692.5	4,647.1	11.8	13.6	-62.16	-402.6	468.2	219.6	197.3	22.28	9.856		
4,800.0	4,770.3	4,792.1	4,745.8	12.1	13.9	-62.61	-410.9	479.1	224.5	201.7	22.84	9.830		
4,900.0	4,869.5	4,890.2	4,842.7	12.4	14.2	-62.66	-420.4	491.1	230.6	207.3	23.35	9.877		
5,000.0	4,968.8	4,991.3	4,942.5	12.7	14.5	-62.68	-430.4	503.3	236.5	212.6	23.88	9.904		
5,100.0	5,068.1	5,092.1	5,042.0	12.9	14.9	-62.27	-442.2	515.1	241.9	217.5	24.35	9.931		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - FINAL													Offset Site Error:	0.0 ft
Survey Program: 167-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,167.3	5,192.9	5,141.4	13.2	15.2	-61.93	-453.7	526.5	246.9	222.1	24.83	9.945		
5,300.0	5,266.6	5,294.8	5,242.2	13.5	15.5	-61.84	-464.4	537.4	251.4	226.1	25.33	9.925		
5,400.0	5,365.9	5,394.3	5,340.7	13.8	15.8	-61.91	-474.2	547.6	255.4	229.6	25.85	9.883		
5,500.0	5,465.1	5,490.4	5,435.6	14.0	16.1	-61.76	-484.5	558.2	260.3	234.0	26.34	9.884		
5,600.0	5,564.4	5,586.3	5,530.1	14.3	16.5	-61.36	-496.0	570.4	266.7	240.0	26.77	9.966		
5,700.0	5,663.7	5,689.4	5,631.8	14.6	16.8	-61.26	-506.8	583.7	273.4	246.1	27.28	10.024		
5,800.0	5,763.0	5,791.9	5,733.1	14.9	17.1	-61.46	-516.1	595.5	278.8	251.0	27.82	10.025		
5,900.0	5,862.2	5,892.3	5,832.5	15.1	17.4	-61.63	-525.4	606.6	283.7	255.4	28.36	10.006		
6,000.0	5,961.5	5,992.4	5,931.5	15.4	17.7	-61.72	-535.1	617.6	288.5	259.7	28.87	9.994		
6,100.0	6,060.8	6,093.2	6,031.3	15.7	18.0	-62.07	-543.5	628.1	292.8	263.4	29.43	9.952		
6,200.0	6,160.0	6,189.2	6,126.4	15.9	18.3	-62.34	-551.8	639.1	298.2	268.2	29.95	9.953		
6,300.0	6,259.3	6,290.0	6,226.1	16.2	18.6	-62.66	-560.1	650.8	303.6	273.1	30.52	9.950		
6,400.0	6,358.6	6,390.9	6,326.0	16.5	18.9	-62.83	-569.3	662.5	309.1	278.1	31.05	9.954		
6,500.0	6,457.8	6,493.5	6,427.6	16.8	19.2	-63.14	-577.9	673.3	313.6	281.9	31.62	9.916		
6,600.0	6,557.1	6,592.9	6,526.1	17.0	19.6	-63.26	-587.2	683.6	317.8	285.6	32.16	9.883		
6,700.0	6,656.4	6,694.9	6,626.9	17.3	19.9	-63.18	-597.8	694.3	322.1	289.4	32.66	9.861		
6,800.0	6,756.0	6,792.5	6,723.5	17.5	20.2	-23.07	-607.2	704.0	325.7	292.8	32.94	9.888		
6,900.0	6,855.7	6,884.8	6,814.9	17.6	20.5	47.86	-616.0	714.6	331.0	298.2	32.73	10.113		
7,000.0	6,954.9	6,982.3	6,911.3	17.6	20.7	71.63	-622.9	727.4	338.5	306.3	32.17	10.521		
7,100.0	7,052.8	7,078.0	7,006.1	17.5	21.0	82.26	-627.3	739.6	347.4	316.1	31.28	11.105		
7,200.0	7,148.7	7,166.4	7,093.5	17.3	21.2	89.17	-628.3	752.3	360.4	330.3	30.12	11.963		
7,300.0	7,241.7	7,278.2	7,203.2	17.1	21.4	94.84	-617.6	770.3	376.9	347.7	29.21	12.903		
7,400.0	7,331.3	7,404.3	7,323.6	16.8	21.4	98.64	-583.5	785.0	388.4	359.8	28.63	13.569		
7,500.0	7,416.7	7,497.5	7,410.7	16.5	21.3	101.33	-552.0	795.3	401.0	373.2	27.87	14.390		
7,600.0	7,497.2	7,608.9	7,512.3	16.2	21.3	104.34	-508.6	808.8	416.7	389.4	27.32	15.251		
7,700.0	7,572.3	7,731.5	7,620.6	16.0	21.1	107.63	-452.2	819.6	430.8	403.9	26.92	16.006		
7,800.0	7,640.3	7,851.2	7,718.5	15.8	21.0	110.07	-384.0	828.7	444.4	417.7	26.71	16.638		
7,900.0	7,697.6	7,984.6	7,818.5	15.7	20.7	112.94	-296.0	835.4	458.0	431.5	26.56	17.243		
8,000.0	7,742.9	8,103.8	7,893.0	15.7	20.6	114.64	-203.4	840.8	471.4	444.6	26.76	17.617		
8,100.0	7,775.5	8,265.1	7,969.2	15.9	20.7	116.27	-62.0	847.7	484.0	457.2	26.81	18.056		
8,200.0	7,794.6	8,398.4	8,008.6	16.2	20.9	116.76	65.2	852.1	494.6	467.2	27.37	18.070		
8,300.0	7,800.0	8,537.8	8,028.2	16.7	21.4	117.08	203.1	854.2	503.0	474.8	28.15	17.866		
8,400.0	7,800.0	8,653.5	8,033.7	17.4	22.0	117.34	318.6	854.9	509.4	480.0	29.40	17.329		
8,500.0	7,800.0	8,761.9	8,035.1	18.3	22.7	117.27	427.0	854.7	513.6	482.6	30.97	16.586		
8,600.0	7,800.0	8,877.9	8,033.0	19.2	23.6	116.91	543.0	852.8	514.9	482.3	32.68	15.758		
8,700.0	7,800.0	8,979.8	8,030.1	20.3	24.4	116.53	644.8	850.1	515.0	480.3	34.74	14.822		
8,800.0	7,800.0	9,080.1	8,027.2	21.4	25.4	116.19	745.0	847.0	514.7	477.7	37.00	13.912		
8,900.0	7,800.0	9,180.3	8,023.9	22.6	26.4	115.79	845.1	844.4	514.6	475.2	39.41	13.059		
9,000.0	7,800.0	9,284.3	8,020.0	23.9	27.6	115.34	949.0	841.2	514.0	472.1	41.88	12.274		
9,100.0	7,800.0	9,385.8	8,017.1	25.3	28.8	115.05	1,050.3	837.0	512.8	468.3	44.46	11.533		
9,200.0	7,800.0	9,482.4	8,017.5	26.7	29.9	115.15	1,146.8	831.7	511.8	464.7	47.12	10.861		
9,245.4	7,800.0	9,524.7	8,017.8	27.3	30.5	115.19	1,189.1	829.6	511.6	463.2	48.39	10.572		
9,300.0	7,800.0	9,574.2	8,017.9	28.1	31.1	115.20	1,238.5	827.7	511.9	461.9	49.97	10.244		
9,400.0	7,800.0	9,674.6	8,017.4	29.6	32.4	115.07	1,338.9	825.1	513.0	460.3	52.75	9.727		
9,500.0	7,800.0	9,778.0	8,016.9	31.1	33.9	114.99	1,442.3	821.6	513.6	458.1	55.49	9.256		
9,600.0	7,800.0	9,873.3	8,017.8	32.6	35.2	115.06	1,537.4	817.9	514.3	455.9	58.40	8.806		
9,700.0	7,800.0	9,970.0	8,017.8	34.2	36.6	115.01	1,634.1	814.9	515.2	453.8	61.36	8.396		
9,800.0	7,800.0	10,064.0	8,016.0	35.7	37.9	114.70	1,728.1	813.8	517.2	452.7	64.54	8.014		
9,900.0	7,800.0	10,166.0	8,012.6	37.3	39.5	114.13	1,830.1	814.4	520.2	452.5	67.68	7.685		
10,000.0	7,800.0	10,270.3	8,008.9	38.9	41.1	113.59	1,934.2	813.8	522.0	451.2	70.81	7.372		
10,100.0	7,800.0	10,357.6	8,005.6	40.5	42.4	113.07	2,021.5	814.5	525.0	450.7	74.34	7.062		
10,200.0	7,800.0	10,444.1	8,003.3	42.2	43.8	112.59	2,107.9	817.1	530.6	452.7	77.87	6.814		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - FINAL													Offset Site Error: 0.0 ft	
Survey Program: 167-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,800.0	10,546.7	8,003.2	43.8	45.4	112.27	2,210.4	820.2	537.3	456.2	81.04	6.630		
10,400.0	7,800.0	10,658.4	8,004.0	45.4	47.1	112.12	2,322.2	821.3	542.3	458.3	83.98	6.458		
10,500.0	7,800.0	10,760.2	8,004.1	47.1	48.8	111.97	2,423.9	821.1	545.9	458.8	87.12	6.267		
10,600.0	7,800.0	10,860.1	8,003.2	48.7	50.4	111.71	2,523.9	821.5	549.9	459.5	90.37	6.085		
10,700.0	7,800.0	10,965.5	8,001.6	50.4	52.1	111.39	2,629.3	821.4	553.2	459.6	93.57	5.912		
10,800.0	7,800.0	11,071.8	7,999.8	52.1	53.8	111.09	2,735.5	820.2	555.4	458.6	96.75	5.740		
10,900.0	7,800.0	11,178.8	7,997.5	53.7	55.5	110.79	2,842.4	817.8	556.4	456.5	99.93	5.568		
11,000.0	7,800.0	11,274.1	7,994.9	55.4	57.0	110.48	2,937.6	815.5	557.1	453.7	103.40	5.388		
11,100.0	7,800.0	11,369.5	7,993.4	57.1	58.6	110.26	3,033.1	813.8	558.8	451.9	106.83	5.231		
11,200.0	7,800.0	11,472.2	7,993.1	58.8	60.3	110.15	3,135.7	811.7	560.6	450.6	110.03	5.095		
11,300.0	7,800.0	11,579.5	7,994.0	60.5	62.0	110.22	3,242.9	807.6	561.3	448.3	113.02	4.967		
11,400.0	7,800.0	11,668.0	7,995.0	62.2	63.5	110.28	3,331.4	804.9	562.6	446.2	116.44	4.832		
11,500.0	7,800.0	11,760.8	7,995.7	63.9	65.1	110.26	3,424.2	803.7	565.6	445.8	119.80	4.721		
11,600.0	7,800.0	11,862.5	7,994.6	65.6	66.8	110.01	3,525.8	803.5	569.1	445.9	123.17	4.620		
11,700.0	7,800.0	11,961.7	7,991.9	67.3	68.4	109.60	3,625.0	803.8	572.3	445.6	126.71	4.517		
11,800.0	7,800.0	12,056.1	7,991.3	69.0	70.0	109.40	3,719.4	804.2	576.4	446.2	130.18	4.428		
11,900.0	7,800.0	12,159.2	7,991.2	70.7	71.7	109.25	3,822.5	804.4	580.5	447.0	133.49	4.348		
12,000.0	7,800.0	12,260.0	7,992.2	72.4	73.4	109.23	3,923.4	803.7	584.2	447.4	136.73	4.272		
12,100.0	7,800.0	12,362.8	7,993.7	74.2	75.2	109.25	4,026.2	802.9	587.6	447.7	139.92	4.200		
12,200.0	7,800.0	12,470.0	7,993.3	75.9	77.0	109.17	4,133.3	801.4	588.5	445.4	143.10	4.112		
12,300.0	7,800.0	12,575.0	7,991.7	77.6	78.7	109.08	4,238.2	799.3	586.8	440.4	146.34	4.010		
12,400.0	7,800.0	12,675.9	7,988.2	79.3	80.5	108.86	4,339.1	797.4	582.8	433.1	149.77	3.892		
12,500.0	7,800.0	12,770.5	7,985.3	81.0	82.1	108.68	4,433.6	795.7	578.8	425.5	153.30	3.776		
12,600.0	7,800.0	12,863.0	7,982.6	82.8	83.6	108.49	4,526.1	795.3	576.0	419.1	156.87	3.672		
12,700.0	7,800.0	12,959.7	7,981.0	84.5	85.3	108.37	4,622.8	795.5	574.2	413.9	160.31	3.582		
12,800.0	7,800.0	13,057.1	7,979.8	86.2	86.9	108.29	4,720.1	795.9	572.8	409.1	163.71	3.499		
12,900.0	7,800.0	13,155.7	7,979.9	88.0	88.6	108.34	4,818.8	796.3	571.8	404.9	166.97	3.425		
13,000.0	7,800.0	13,272.4	7,983.1	89.7	90.6	108.76	4,935.4	794.3	569.7	400.1	169.56	3.360		
13,100.0	7,800.0	13,377.6	7,986.3	91.4	92.4	109.27	5,040.4	790.0	565.4	393.2	172.23	3.283		
13,200.0	7,800.0	13,480.8	7,988.8	93.2	94.2	109.72	5,143.5	785.1	560.4	385.4	174.95	3.203		
13,300.0	7,800.0	13,579.3	7,990.2	94.9	95.8	110.07	5,241.9	780.5	555.1	377.2	177.87	3.121		
13,400.0	7,800.0	13,674.1	7,990.1	96.6	97.5	110.22	5,336.6	777.4	550.6	369.5	181.10	3.040		
13,500.0	7,800.0	13,771.3	7,988.9	98.4	99.1	110.24	5,433.8	775.2	546.6	362.2	184.40	2.964		
13,600.0	7,800.0	13,867.5	7,989.1	100.1	100.8	110.37	5,530.0	773.3	543.4	355.8	187.59	2.897		
13,700.0	7,800.0	13,965.6	7,986.9	101.8	102.5	110.23	5,628.1	772.7	540.7	349.6	191.05	2.830		
13,800.0	7,800.0	14,065.6	7,982.3	103.6	104.2	109.81	5,728.0	773.2	538.2	343.3	194.81	2.762		
13,900.0	7,800.0	14,163.5	7,977.0	105.3	105.9	109.31	5,825.7	773.9	535.6	336.9	198.71	2.695		
14,000.0	7,800.0	14,259.7	7,972.5	107.0	107.5	108.85	5,921.8	775.2	533.9	331.3	202.60	2.635		
14,100.0	7,800.0	14,364.0	7,969.6	108.8	109.3	108.58	6,026.0	775.9	532.3	326.1	206.13	2.582		
14,200.0	7,800.0	14,469.9	7,969.0	110.5	111.1	108.62	6,131.9	774.5	529.4	320.1	209.24	2.530		
14,300.0	7,800.0	14,571.4	7,968.2	112.3	112.9	108.67	6,233.4	772.4	525.8	313.3	212.45	2.475		
14,400.0	7,800.0	14,672.4	7,966.7	114.0	114.6	108.64	6,334.4	770.4	522.0	306.3	215.75	2.420		
14,500.0	7,800.0	14,778.1	7,965.1	115.7	116.5	108.63	6,440.0	767.6	517.7	298.8	218.89	2.365		
14,600.0	7,800.0	14,866.1	7,964.2	117.5	118.0	108.64	6,528.0	765.7	513.8	291.3	222.50	2.309		
14,700.0	7,800.0	14,972.7	7,963.4	119.2	119.8	108.67	6,634.5	764.0	510.7	285.1	225.59	2.264		
14,800.0	7,800.0	15,084.6	7,962.2	121.0	121.7	108.76	6,746.4	759.8	505.3	277.0	228.35	2.213		
14,900.0	7,800.0	15,183.7	7,962.7	122.7	123.4	109.08	6,845.4	754.3	498.9	267.6	231.26	2.157		
15,000.0	7,800.0	15,278.1	7,962.0	124.4	125.1	109.19	6,939.6	750.4	493.3	258.7	234.60	2.103		
15,100.0	7,800.0	15,374.1	7,960.2	126.2	126.7	109.16	7,035.6	747.6	488.5	250.4	238.07	2.052		
15,200.0	7,800.0	15,470.9	7,960.1	127.9	128.4	109.29	7,132.3	745.4	484.9	243.6	241.28	2.009		
15,300.0	7,800.0	15,571.1	7,960.7	129.7	130.1	109.55	7,232.5	742.2	480.7	236.5	244.19	1.969		
15,400.0	7,800.0	15,662.6	7,959.9	131.4	131.7	109.55	7,324.0	741.3	478.0	230.3	247.71	1.930		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - FINAL													Offset Site Error:	0.0 ft
Survey Program: 167-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
15,500.0	7,800.0	15,755.0	7,958.2	133.2	133.3	109.38	7,416.4	742.0	476.7	225.3	251.41	1.896		
15,513.6	7,800.0	15,766.9	7,958.1	133.4	133.5	109.38	7,428.3	742.2	476.7	224.8	251.89	1.893		
15,600.0	7,800.0	15,852.1	7,959.7	134.9	135.0	109.55	7,513.4	743.6	477.4	222.9	254.49	1.876		
15,700.0	7,800.0	15,965.5	7,961.4	136.7	137.0	109.84	7,626.8	742.9	475.8	218.7	257.07	1.851		
15,800.0	7,800.0	16,066.8	7,960.6	138.4	138.7	109.86	7,728.1	741.6	473.0	212.7	260.28	1.817		
15,900.0	7,800.0	16,157.5	7,958.9	140.1	140.3	109.73	7,818.7	741.5	470.9	206.9	263.99	1.784		
15,928.9	7,800.0	16,182.4	7,958.8	140.6	140.7	109.72	7,843.7	741.8	470.7	205.7	265.03	1.776		
16,000.0	7,800.0	16,252.4	7,959.0	141.9	142.0	109.73	7,913.6	743.0	471.0	203.6	267.37	1.761		
16,100.0	7,800.0	16,353.1	7,959.5	143.6	143.7	109.78	8,014.3	744.5	471.1	200.5	270.55	1.741		
16,200.0	7,800.0	16,455.5	7,960.2	145.4	145.5	109.89	8,116.7	745.6	471.0	197.4	273.63	1.721		
16,300.0	7,800.0	16,559.6	7,960.3	147.1	147.3	109.94	8,220.8	746.2	470.1	193.4	276.74	1.699		
16,400.0	7,800.0	16,655.9	7,957.9	148.9	149.0	109.67	8,317.1	747.5	469.1	188.6	280.56	1.672		
16,500.0	7,800.0	16,754.7	7,956.7	150.6	150.7	109.52	8,415.9	749.0	468.8	184.7	284.12	1.650		
16,600.0	7,800.0	16,863.3	7,957.1	152.4	152.6	109.63	8,524.4	749.3	467.7	180.6	287.06	1.629		
16,700.0	7,800.0	16,966.2	7,956.1	154.1	154.4	109.61	8,627.4	748.4	465.2	174.9	290.30	1.602		
16,800.0	7,800.0	17,062.0	7,955.7	155.9	156.1	109.65	8,723.2	747.7	463.0	169.3	293.64	1.577		
16,900.0	7,800.0	17,163.0	7,953.7	157.6	157.8	109.47	8,824.1	748.1	461.2	164.0	297.23	1.552		
17,000.0	7,800.0	17,268.1	7,952.9	159.4	159.6	109.49	8,929.2	746.8	458.4	158.1	300.32	1.526		
17,100.0	7,800.0	17,367.2	7,952.5	161.1	161.4	109.57	9,028.3	745.3	455.5	152.0	303.51	1.501		
17,112.8	7,800.0	17,380.5	7,952.4	161.3	161.6	109.57	9,041.6	745.1	455.1	151.2	303.91	1.497	Level 3, SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - Plan #4														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.1	0.1	90.06	0.0	8.4	8.4	8.2	0.25	33.667			
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.8	0.60	14.036			
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	8.4	8.4	7.5	0.95	8.866			
400.0	400.0	400.0	400.0	0.6	0.6	90.06	0.0	8.4	8.4	7.1	1.30	6.480 CC, ES			
500.0	500.0	499.7	499.7	0.8	0.8	96.72	-1.1	9.7	9.8	8.1	1.65	5.946			
600.0	600.0	599.3	599.2	1.0	1.0	-45.46	-4.5	13.6	13.1	11.1	2.00	6.577			
700.0	699.8	698.8	698.2	1.2	1.2	-44.52	-10.2	20.2	17.2	14.8	2.35	7.293			
800.0	799.5	798.1	796.8	1.4	1.5	-46.27	-18.1	29.3	21.9	19.1	2.74	7.984			
900.0	898.8	897.7	895.3	1.6	1.7	-49.27	-27.8	40.4	26.9	23.7	3.16	8.523			
1,000.0	998.0	997.6	994.0	1.9	2.0	-51.67	-37.6	51.8	31.9	28.3	3.60	8.867			
1,100.0	1,097.3	1,097.4	1,092.8	2.1	2.3	-53.42	-47.4	63.1	37.0	32.9	4.06	9.111			
1,200.0	1,196.6	1,197.3	1,191.5	2.4	2.6	-54.75	-57.3	74.5	42.1	37.6	4.53	9.287			
1,300.0	1,295.8	1,297.2	1,290.2	2.6	2.9	-55.78	-67.1	85.8	47.2	42.2	5.01	9.418			
1,400.0	1,395.1	1,397.0	1,389.0	2.9	3.2	-56.62	-76.9	97.1	52.3	46.8	5.50	9.517			
1,500.0	1,494.4	1,496.9	1,487.7	3.2	3.5	-57.30	-86.7	108.5	57.5	51.5	5.99	9.594			
1,600.0	1,593.6	1,596.8	1,586.4	3.4	3.9	-57.88	-96.6	119.8	62.6	56.1	6.49	9.654			
1,700.0	1,692.9	1,696.6	1,685.2	3.7	4.2	-58.36	-106.4	131.2	67.8	60.8	6.99	9.703			
1,800.0	1,792.2	1,796.5	1,783.9	4.0	4.5	-58.78	-116.2	142.5	72.9	65.4	7.49	9.743			
1,900.0	1,891.5	1,896.4	1,882.6	4.2	4.8	-59.14	-126.1	153.8	78.1	70.1	7.99	9.775			
2,000.0	1,990.7	1,996.2	1,981.4	4.5	5.1	-59.46	-135.9	165.2	83.2	74.8	8.49	9.802			
2,100.0	2,090.0	2,096.1	2,080.1	4.8	5.4	-59.74	-145.7	176.5	88.4	79.4	9.00	9.825			
2,200.0	2,189.3	2,195.9	2,178.8	5.0	5.7	-59.99	-155.5	187.9	93.6	84.1	9.51	9.845			
2,300.0	2,288.5	2,295.8	2,277.6	5.3	6.0	-60.22	-165.4	199.2	98.7	88.7	10.01	9.862			
2,400.0	2,387.8	2,395.7	2,376.3	5.6	6.3	-60.42	-175.2	210.6	103.9	93.4	10.52	9.876			
2,500.0	2,487.1	2,495.5	2,475.0	5.9	6.7	-60.60	-185.0	221.9	109.1	98.0	11.03	9.889			
2,600.0	2,586.3	2,595.4	2,573.8	6.1	7.0	-60.76	-194.9	233.2	114.2	102.7	11.54	9.900			
2,700.0	2,685.6	2,695.3	2,672.5	6.4	7.3	-60.92	-204.7	244.6	119.4	107.4	12.05	9.910			
2,800.0	2,784.9	2,795.1	2,771.2	6.7	7.6	-61.05	-214.5	255.9	124.6	112.0	12.56	9.918			
2,900.0	2,884.1	2,895.0	2,869.9	6.9	7.9	-61.18	-224.3	267.3	129.8	116.7	13.07	9.926			
3,000.0	2,983.4	2,994.9	2,968.7	7.2	8.2	-61.30	-234.2	278.6	134.9	121.3	13.58	9.933			
3,100.0	3,082.7	3,094.7	3,067.4	7.5	8.5	-61.41	-244.0	289.9	140.1	126.0	14.10	9.939			
3,200.0	3,182.0	3,194.6	3,166.1	7.8	8.9	-61.51	-253.8	301.3	145.3	130.7	14.61	9.945			
3,300.0	3,281.2	3,294.5	3,264.9	8.0	9.2	-61.60	-263.7	312.6	150.5	135.3	15.12	9.950			
3,400.0	3,380.5	3,394.3	3,363.6	8.3	9.5	-61.69	-273.5	324.0	155.6	140.0	15.63	9.954			
3,500.0	3,479.8	3,494.2	3,462.3	8.6	9.8	-61.78	-283.3	335.3	160.8	144.7	16.15	9.958			
3,600.0	3,579.0	3,594.1	3,561.1	8.8	10.1	-61.85	-293.1	346.6	166.0	149.3	16.66	9.962			
3,700.0	3,678.3	3,693.9	3,659.8	9.1	10.4	-61.93	-303.0	358.0	171.2	154.0	17.17	9.966			
3,800.0	3,777.6	3,793.8	3,758.5	9.4	10.8	-61.99	-312.8	369.3	176.3	158.6	17.69	9.969			
3,900.0	3,876.8	3,893.7	3,857.3	9.7	11.1	-62.06	-322.6	380.7	181.5	163.3	18.20	9.972			
4,000.0	3,976.1	3,993.5	3,956.0	9.9	11.4	-62.12	-332.5	392.0	186.7	168.0	18.72	9.975			
4,100.0	4,075.4	4,093.4	4,054.7	10.2	11.7	-62.18	-342.3	403.4	191.9	172.6	19.23	9.977			
4,200.0	4,174.6	4,193.3	4,153.5	10.5	12.0	-62.23	-352.1	414.7	197.0	177.3	19.74	9.979			
4,300.0	4,273.9	4,293.1	4,252.2	10.8	12.3	-62.28	-361.9	426.0	202.2	182.0	20.26	9.982			
4,400.0	4,373.2	4,393.0	4,350.9	11.0	12.6	-62.33	-371.8	437.4	207.4	186.6	20.77	9.984			
4,500.0	4,472.5	4,492.9	4,449.7	11.3	13.0	-62.38	-381.6	448.7	212.6	191.3	21.29	9.986			
4,600.0	4,571.7	4,592.7	4,548.4	11.6	13.3	-62.42	-391.4	460.1	217.7	195.9	21.80	9.987			
4,700.0	4,671.0	4,692.6	4,647.1	11.8	13.6	-62.47	-401.3	471.4	222.9	200.6	22.32	9.989			
4,800.0	4,770.3	4,792.5	4,745.8	12.1	13.9	-62.51	-411.1	482.7	228.1	205.3	22.83	9.991			
4,900.0	4,869.5	4,892.3	4,844.6	12.4	14.2	-62.55	-420.9	494.1	233.3	209.9	23.35	9.992			
5,000.0	4,968.8	4,992.2	4,943.3	12.7	14.5	-62.58	-430.7	505.4	238.4	214.6	23.86	9.993			
5,100.0	5,068.1	5,092.1	5,042.0	12.9	14.9	-62.62	-440.6	516.8	243.6	219.3	24.38	9.995			

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,167.3	5,191.9	5,140.8	13.2	15.2	-62.65	-450.4	528.1	248.8	223.9	24.89	9.996		
5,300.0	5,266.6	5,291.8	5,239.5	13.5	15.5	-62.69	-460.2	539.5	254.0	228.6	25.41	9.997		
5,400.0	5,365.9	5,391.7	5,338.2	13.8	15.8	-62.72	-470.1	550.8	259.2	233.2	25.92	9.998		
5,500.0	5,465.1	5,491.5	5,437.0	14.0	16.1	-62.75	-479.9	562.1	264.3	237.9	26.44	9.999		
5,600.0	5,564.4	5,591.4	5,535.7	14.3	16.4	-62.78	-489.7	573.5	269.5	242.6	26.95	10.000		
5,700.0	5,663.7	5,691.3	5,634.4	14.6	16.7	-62.80	-499.6	584.8	274.7	247.2	27.47	10.001		
5,800.0	5,763.0	5,791.1	5,733.2	14.9	17.1	-62.83	-509.4	596.2	279.9	251.9	27.98	10.002		
5,900.0	5,862.2	5,891.0	5,831.9	15.1	17.4	-62.86	-519.2	607.5	285.0	256.6	28.50	10.003		
6,000.0	5,961.5	5,990.8	5,930.6	15.4	17.7	-62.88	-529.0	618.8	290.2	261.2	29.01	10.004		
6,100.0	6,060.8	6,090.7	6,029.4	15.7	18.0	-62.91	-538.9	630.2	295.4	265.9	29.53	10.005		
6,200.0	6,160.0	6,190.6	6,128.1	15.9	18.3	-62.93	-548.7	641.5	300.6	270.5	30.04	10.005		
6,300.0	6,259.3	6,290.4	6,226.8	16.2	18.6	-62.95	-558.5	652.9	305.8	275.2	30.56	10.006		
6,400.0	6,358.6	6,390.3	6,325.6	16.5	19.0	-62.97	-568.4	664.2	310.9	279.9	31.07	10.007		
6,500.0	6,457.8	6,490.2	6,424.3	16.8	19.3	-62.99	-578.2	675.5	316.1	284.5	31.59	10.007		
6,600.0	6,557.1	6,590.0	6,523.0	17.0	19.6	-63.01	-588.0	686.9	321.3	289.2	32.10	10.008		
6,700.0	6,656.4	6,689.9	6,621.8	17.3	19.9	-63.03	-597.8	698.2	326.5	293.9	32.62	10.009		
6,800.0	6,756.0	6,789.7	6,720.4	17.5	20.2	-22.91	-607.7	709.6	331.5	298.6	32.89	10.080		
6,900.0	6,855.7	6,888.7	6,818.3	17.6	20.5	48.19	-617.4	720.8	336.6	303.9	32.73	10.287		
7,000.0	6,954.9	6,986.4	6,914.9	17.6	20.8	72.41	-627.0	731.9	342.7	310.5	32.12	10.669		
7,100.0	7,052.8	7,085.5	7,013.2	17.5	21.1	83.31	-632.4	743.1	350.5	319.3	31.19	11.239		
7,200.0	7,148.7	7,187.0	7,113.9	17.3	21.2	90.30	-629.0	754.5	360.1	329.9	30.19	11.928		
7,300.0	7,241.7	7,290.8	7,216.3	17.1	21.3	95.59	-616.3	765.8	371.2	342.0	29.21	12.707		
7,400.0	7,331.3	7,397.2	7,319.6	16.8	21.3	99.90	-593.6	777.1	383.6	355.2	28.34	13.536		
7,500.0	7,416.7	7,506.3	7,422.9	16.5	21.2	103.53	-560.5	788.2	396.9	369.2	27.62	14.371		
7,600.0	7,497.2	7,618.2	7,525.2	16.2	21.1	106.63	-516.4	799.1	410.7	383.7	27.08	15.166		
7,700.0	7,572.3	7,733.0	7,625.1	16.0	20.9	109.29	-461.0	809.4	424.9	398.1	26.76	15.878		
7,800.0	7,640.3	7,850.4	7,721.1	15.8	20.8	111.56	-394.2	819.1	439.5	412.9	26.63	16.508		
7,900.0	7,697.6	7,969.7	7,811.2	15.7	20.6	113.83	-316.6	828.0	456.3	429.6	26.66	17.115		
8,000.0	7,742.9	8,111.4	7,904.4	15.7	20.5	116.33	-210.5	836.8	473.6	446.9	26.66	17.761		
8,100.0	7,775.5	8,266.7	7,980.6	15.9	20.6	118.05	-75.7	843.4	487.5	460.8	26.75	18.226		
8,200.0	7,794.6	8,429.3	8,027.6	16.2	20.9	118.79	79.6	846.5	496.6	469.6	27.03	18.372		
8,300.0	7,800.0	8,586.5	8,038.9	16.7	21.5	118.53	236.1	845.8	500.2	472.5	27.78	18.006		
8,400.0	7,800.0	8,686.5	8,037.0	17.4	22.1	118.19	336.0	844.4	501.7	472.5	29.22	17.168		
8,500.0	7,800.0	8,786.4	8,035.1	18.3	22.7	117.85	435.9	842.9	503.2	472.3	30.92	16.277		
8,600.0	7,800.0	8,886.4	8,033.2	19.2	23.5	117.52	535.8	841.5	504.8	471.9	32.83	15.373		
8,700.0	7,800.0	8,986.3	8,031.2	20.3	24.4	117.18	635.7	840.1	506.3	471.4	34.94	14.490		
8,800.0	7,800.0	9,085.9	8,029.3	21.4	25.4	116.85	735.2	838.7	507.9	470.7	37.22	13.646		
8,900.0	7,800.0	9,185.8	8,027.4	22.6	26.5	116.51	835.2	837.3	509.5	469.9	39.63	12.857		
9,000.0	7,800.0	9,285.7	8,025.5	23.9	27.6	116.18	935.1	835.9	511.2	469.1	42.16	12.124		
9,100.0	7,800.0	9,385.7	8,023.6	25.3	28.8	115.85	1,035.0	834.6	512.9	468.1	44.80	11.450		
9,200.0	7,800.0	9,485.6	8,021.7	26.7	30.0	115.52	1,134.9	833.2	514.6	467.1	47.52	10.830		
9,300.0	7,800.0	9,585.6	8,019.8	28.1	31.3	115.20	1,234.8	831.8	516.3	466.0	50.31	10.262		
9,400.0	7,800.0	9,685.5	8,017.9	29.6	32.7	114.87	1,334.7	830.5	518.1	464.9	53.18	9.742		
9,500.0	7,800.0	9,785.5	8,016.0	31.1	34.1	114.55	1,434.6	829.1	519.8	463.7	56.10	9.266		
9,600.0	7,800.0	9,885.4	8,014.0	32.6	35.5	114.23	1,534.6	827.8	521.6	462.5	59.08	8.829		
9,700.0	7,800.0	9,985.3	8,012.1	34.2	36.9	113.92	1,634.5	826.4	523.4	461.3	62.10	8.428		
9,800.0	7,800.0	10,085.3	8,010.2	35.7	38.4	113.60	1,734.4	825.0	525.2	460.0	65.16	8.060		
9,900.0	7,800.0	10,185.2	8,008.3	37.3	39.9	113.29	1,834.3	823.7	527.0	458.7	68.26	7.720		
10,000.0	7,800.0	10,285.2	8,006.4	38.9	41.4	112.98	1,934.2	822.3	528.8	457.4	71.39	7.407		
10,100.0	7,800.0	10,385.1	8,004.5	40.5	42.9	112.67	2,034.1	821.0	530.7	456.1	74.56	7.117		
10,200.0	7,800.0	10,485.1	8,002.6	42.2	44.5	112.36	2,134.1	819.6	532.5	454.8	77.75	6.849		
10,300.0	7,800.0	10,585.0	8,000.7	43.8	46.0	112.06	2,234.0	818.2	534.4	453.4	80.97	6.600		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,800.0	10,684.9	7,998.8	45.4	47.6	111.76	2,333.9	816.9	536.3	452.1	84.22	6.368		
10,500.0	7,800.0	10,784.9	7,996.8	47.1	49.2	111.46	2,433.8	815.5	538.2	450.7	87.49	6.152		
10,600.0	7,800.0	10,884.8	7,994.9	48.7	50.8	111.16	2,533.7	814.2	540.2	449.4	90.77	5.951		
10,700.0	7,800.0	10,984.8	7,993.0	50.4	52.4	110.86	2,633.6	812.8	542.1	448.0	94.08	5.762		
10,800.0	7,800.0	11,084.7	7,991.1	52.1	54.0	110.57	2,733.5	811.4	544.0	446.6	97.41	5.585		
10,900.0	7,800.0	11,184.7	7,989.2	53.7	55.6	110.28	2,833.5	810.1	546.0	445.3	100.75	5.420		
11,000.0	7,800.0	11,284.6	7,987.3	55.4	57.3	109.99	2,933.4	808.7	548.0	443.9	104.11	5.264		
11,100.0	7,800.0	11,384.5	7,985.4	57.1	58.9	109.70	3,033.3	807.3	550.0	442.5	107.48	5.117		
11,200.0	7,800.0	11,484.5	7,983.5	58.8	60.5	109.42	3,133.2	806.0	552.0	441.1	110.86	4.979		
11,300.0	7,800.0	11,584.4	7,981.6	60.5	62.2	109.13	3,233.1	804.6	554.0	439.8	114.26	4.849		
11,400.0	7,800.0	11,684.4	7,979.6	62.2	63.8	108.85	3,333.0	803.3	556.1	438.4	117.68	4.725		
11,500.0	7,800.0	11,784.3	7,977.7	63.9	65.5	108.57	3,432.9	801.9	558.1	437.0	121.10	4.609		
11,600.0	7,800.0	11,884.2	7,975.8	65.6	67.2	108.30	3,532.9	800.5	560.2	435.6	124.54	4.498		
11,700.0	7,800.0	11,984.2	7,973.9	67.3	68.8	108.02	3,632.8	799.2	562.2	434.3	127.98	4.393		
11,800.0	7,800.0	12,083.1	7,972.1	69.0	70.5	107.76	3,731.6	797.8	564.3	432.9	131.45	4.293		
11,900.0	7,800.0	12,178.9	7,972.3	70.7	72.1	107.70	3,827.5	796.5	567.1	432.2	134.85	4.205		
12,000.0	7,800.0	12,278.9	7,973.4	72.4	73.8	107.71	3,927.4	795.2	570.1	432.0	138.12	4.128		
12,100.0	7,800.0	12,378.9	7,974.5	74.2	75.5	107.73	4,027.4	793.8	572.9	431.5	141.38	4.052		
12,200.0	7,800.0	12,478.8	7,975.5	75.9	77.2	107.80	4,127.3	792.4	574.2	429.6	144.61	3.971		
12,300.0	7,800.0	12,578.8	7,976.6	77.6	78.9	107.92	4,227.3	791.1	573.9	426.1	147.80	3.883		
12,400.0	7,800.0	12,678.8	7,977.7	79.3	80.6	108.10	4,327.3	789.7	572.0	421.1	150.94	3.790		
12,500.0	7,800.0	12,778.7	7,978.8	81.0	82.3	108.30	4,427.2	788.4	569.7	415.6	154.06	3.698		
12,600.0	7,800.0	12,878.7	7,979.9	82.8	84.0	108.49	4,527.1	787.0	567.3	410.1	157.18	3.609		
12,700.0	7,800.0	12,978.7	7,981.0	84.5	85.7	108.69	4,627.1	785.6	564.9	404.6	160.28	3.525		
12,800.0	7,800.0	13,078.6	7,982.0	86.2	87.4	108.89	4,727.0	784.3	562.6	399.2	163.38	3.443		
12,900.0	7,800.0	13,178.6	7,983.1	88.0	89.1	109.08	4,827.0	782.9	560.2	393.8	166.47	3.365		
13,000.0	7,800.0	13,278.5	7,984.2	89.7	90.8	109.29	4,926.9	781.6	557.9	388.3	169.55	3.290		
13,100.0	7,800.0	13,380.3	7,985.2	91.4	92.5	109.48	5,026.7	780.2	555.5	382.9	172.59	3.219		
13,200.0	7,800.0	13,481.9	7,984.5	93.2	94.2	109.51	5,130.3	778.8	552.6	376.8	175.79	3.143		
13,300.0	7,800.0	13,581.9	7,983.7	94.9	96.0	109.53	5,230.2	777.4	549.6	370.6	179.04	3.070		
13,400.0	7,800.0	13,681.8	7,982.9	96.6	97.7	109.55	5,330.1	776.1	546.7	364.4	182.29	2.999		
13,500.0	7,800.0	13,781.8	7,982.1	98.4	99.4	109.58	5,430.1	774.7	543.7	358.2	185.54	2.931		
13,600.0	7,800.0	13,881.7	7,981.3	100.1	101.1	109.60	5,530.0	773.3	540.8	352.0	188.78	2.864		
13,700.0	7,800.0	13,981.7	7,980.5	101.8	102.8	109.62	5,630.0	772.0	537.8	345.8	192.03	2.801		
13,800.0	7,800.0	14,081.6	7,979.7	103.6	104.5	109.64	5,729.9	770.6	534.9	339.6	195.28	2.739		
13,900.0	7,800.0	14,181.6	7,978.9	105.3	106.3	109.67	5,829.9	769.3	531.9	333.4	198.53	2.679		
14,000.0	7,800.0	14,281.5	7,978.1	107.0	108.0	109.69	5,929.8	767.9	528.9	327.2	201.77	2.621		
14,100.0	7,800.0	14,381.5	7,977.3	108.8	109.7	109.71	6,029.7	766.5	526.0	321.0	205.02	2.566		
14,200.0	7,800.0	14,481.5	7,976.5	110.5	111.4	109.74	6,129.7	765.2	523.0	314.8	208.27	2.511		
14,300.0	7,800.0	14,581.4	7,975.8	112.3	113.1	109.76	6,229.6	763.8	520.1	308.6	211.51	2.459		
14,400.0	7,800.0	14,681.4	7,975.0	114.0	114.9	109.78	6,329.6	762.4	517.1	302.4	214.76	2.408		
14,500.0	7,800.0	14,781.3	7,974.2	115.7	116.6	109.81	6,429.5	761.1	514.2	296.2	218.00	2.359		
14,600.0	7,800.0	14,881.3	7,973.4	117.5	118.3	109.83	6,529.5	759.7	511.2	290.0	221.25	2.311		
14,700.0	7,800.0	14,981.2	7,972.6	119.2	120.0	109.86	6,629.4	758.4	508.3	283.8	224.49	2.264		
14,800.0	7,800.0	15,081.2	7,971.8	121.0	121.8	109.88	6,729.3	757.0	505.3	277.6	227.73	2.219		
14,900.0	7,800.0	15,181.2	7,971.0	122.7	123.5	109.91	6,829.3	755.6	502.4	271.4	230.97	2.175		
15,000.0	7,800.0	15,281.1	7,970.2	124.4	125.2	109.94	6,929.2	754.3	499.4	265.2	234.22	2.132		
15,100.0	7,800.0	15,381.1	7,969.4	126.2	127.0	109.96	7,029.2	752.9	496.4	259.0	237.46	2.091		
15,200.0	7,800.0	15,481.0	7,968.6	127.9	128.7	109.99	7,129.1	751.6	493.5	252.8	240.69	2.050		
15,300.0	7,800.0	15,581.0	7,967.8	129.7	130.4	110.02	7,229.1	750.2	490.5	246.6	243.93	2.011		
15,400.0	7,800.0	15,680.9	7,967.0	131.4	132.2	110.04	7,329.0	748.8	487.6	240.4	247.17	1.973		
15,500.0	7,800.0	15,780.9	7,966.2	133.2	133.9	110.07	7,429.0	747.5	484.6	234.2	250.40	1.935		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4G-29H-P168 - Hz - Plan #4													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		
15,600.0	7,800.0	15,880.8	7,965.5	134.9	135.6	110.10	7,528.9	746.1	481.7	228.0	253.64	1.899		
15,700.0	7,800.0	15,980.8	7,964.7	136.7	137.4	110.13	7,628.8	744.7	478.7	221.9	256.87	1.864		
15,800.0	7,800.0	16,080.8	7,963.9	138.4	139.1	110.16	7,728.8	743.4	475.8	215.7	260.10	1.829		
15,900.0	7,800.0	16,180.7	7,963.1	140.1	140.8	110.19	7,828.7	742.0	472.8	209.5	263.33	1.796		
16,000.0	7,800.0	16,280.7	7,962.3	141.9	142.6	110.21	7,928.7	740.7	469.9	203.3	266.56	1.763		
16,100.0	7,800.0	16,380.6	7,961.5	143.6	144.3	110.24	8,028.6	739.3	466.9	197.1	269.79	1.731		
16,200.0	7,800.0	16,480.6	7,960.7	145.4	146.0	110.27	8,128.6	737.9	464.0	190.9	273.02	1.699		
16,300.0	7,800.0	16,580.5	7,959.9	147.1	147.8	110.31	8,228.5	736.6	461.0	184.8	276.24	1.669		
16,400.0	7,800.0	16,680.5	7,959.1	148.9	149.5	110.34	8,328.4	735.2	458.1	178.6	279.46	1.639		
16,500.0	7,800.0	16,780.5	7,958.3	150.6	151.2	110.37	8,428.4	733.9	455.1	172.4	282.68	1.610		
16,600.0	7,800.0	16,880.4	7,957.5	152.4	153.0	110.40	8,528.3	732.5	452.2	166.3	285.90	1.581		
16,700.0	7,800.0	16,980.4	7,956.7	154.1	154.7	110.43	8,628.3	731.1	449.2	160.1	289.12	1.554		
16,800.0	7,800.0	17,080.3	7,955.9	155.9	156.4	110.46	8,728.2	729.8	446.2	153.9	292.34	1.526		
16,900.0	7,800.0	17,180.3	7,955.2	157.6	158.2	110.50	8,828.2	728.4	443.3	147.7	295.55	1.500 Level 3		
17,000.0	7,800.0	17,280.2	7,954.4	159.4	159.9	110.53	8,928.1	727.0	440.3	141.6	298.76	1.474 Level 3		
17,100.0	7,800.0	17,380.2	7,953.6	161.1	161.7	110.56	9,028.1	725.7	437.4	135.4	301.97	1.448 Level 3		
17,112.8	7,800.0	17,393.0	7,953.5	161.3	161.9	110.57	9,040.9	725.5	437.0	134.6	302.38	1.445 Level 3, SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29PD - SYNERGY - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 218-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-3.58	328.3	-20.6	329.2					
100.0	100.0	92.1	92.1	0.1	0.2	-3.52	327.9	-20.2	328.5	0.28	1,180.133			
200.0	200.0	196.0	196.0	0.3	0.3	-3.30	326.2	-18.8	326.8	0.63	521.823			
300.0	300.0	300.3	300.2	0.5	0.5	-3.26	323.1	-18.4	323.9	0.98	331.792			
400.0	400.0	402.4	402.1	0.6	0.7	-4.19	318.7	-23.3	319.9	1.34	239.321			
500.0	500.0	502.4	501.4	0.8	1.0	-6.10	313.6	-33.5	315.6	1.75	180.837			
582.2	582.2	580.9	579.0	1.0	1.2	-157.32	309.5	-44.8	313.9	2.12	147.777 CC			
600.0	600.0	597.7	595.5	1.0	1.3	-157.88	308.7	-47.5	314.0	2.21	142.017 ES			
700.0	699.8	690.4	686.5	1.2	1.6	-161.39	304.6	-64.9	318.0	2.73	116.371			
800.0	799.5	778.0	771.9	1.4	1.9	-165.15	301.7	-84.1	328.7	3.28	100.349			
900.0	898.8	861.7	853.1	1.6	2.3	-168.86	301.0	-104.4	347.1	3.80	91.284			
1,000.0	998.0	952.7	941.1	1.9	2.7	-172.57	302.4	-127.5	370.1	4.33	85.416			
1,100.0	1,097.3	1,045.1	1,030.5	2.1	3.1	-175.86	304.5	-150.8	395.1	4.85	81.499			
1,200.0	1,196.6	1,133.1	1,115.5	2.4	3.5	-178.66	307.1	-173.5	422.1	5.33	79.163			
1,300.0	1,295.8	1,219.2	1,198.3	2.6	4.0	178.83	310.6	-196.8	451.6	5.79	78.045 SF			
1,400.0	1,395.1	1,299.0	1,274.8	2.9	4.4	176.77	315.2	-219.3	483.9	6.18	78.266			
1,500.0	1,494.4	1,384.3	1,356.1	3.2	4.9	174.87	322.1	-244.2	519.3	6.58	78.886			
1,600.0	1,593.6	1,475.8	1,443.2	3.4	5.4	173.13	330.1	-270.6	555.4	7.03	78.987			
1,700.0	1,692.9	1,567.1	1,530.2	3.7	5.9	171.59	338.2	-297.1	592.1	7.45	79.483			
1,800.0	1,792.2	1,666.2	1,624.8	4.0	6.4	170.10	346.6	-325.8	628.9	7.91	79.555			
1,900.0	1,891.5	1,769.1	1,723.2	4.2	7.0	168.70	353.6	-354.8	664.3	8.38	79.256			
2,000.0	1,990.7	1,861.7	1,811.9	4.5	7.5	167.51	359.0	-380.8	699.2	8.79	79.527			
2,100.0	2,090.0	1,958.6	1,904.8	4.8	8.0	166.48	365.5	-407.4	734.5	9.22	79.695			
2,200.0	2,189.3	2,048.2	1,991.0	5.0	8.4	165.63	371.3	-431.4	769.4	9.60	80.150			
2,300.0	2,288.5	2,130.4	2,069.8	5.3	8.9	164.93	377.5	-453.9	805.5	9.95	80.949			
2,400.0	2,387.8	2,212.3	2,148.0	5.6	9.4	164.25	384.0	-477.5	843.0	10.30	81.818			
2,500.0	2,487.1	2,296.7	2,228.3	5.9	9.9	163.57	391.0	-502.7	881.6	10.67	82.664			
2,600.0	2,586.3	2,390.4	2,317.3	6.1	10.4	162.92	399.5	-530.7	920.8	11.07	83.219			
2,700.0	2,685.6	2,495.1	2,417.2	6.4	11.0	162.26	407.9	-560.8	958.7	11.52	83.237			
2,800.0	2,784.9	2,597.6	2,515.1	6.7	11.5	161.69	416.5	-589.9	996.6	11.95	83.434			
2,900.0	2,884.1	2,699.3	2,613.0	6.9	12.0	161.26	424.7	-616.0	1,032.3	12.35	83.604			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29SD - SYNERGY - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 216-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,300.0	7,800.0	7,928.0	7,812.9	28.1	21.4	-89.22	2,048.2	-156.9	975.2	933.5	41.69	23.394		
9,400.0	7,800.0	7,930.0	7,815.0	29.6	21.4	-89.47	2,048.2	-156.9	890.0	846.4	43.54	20.439		
9,500.0	7,800.0	7,932.1	7,817.1	31.1	21.4	-89.71	2,048.3	-156.8	808.1	762.4	45.73	17.670		
9,600.0	7,800.0	7,934.2	7,819.1	32.6	21.4	-89.96	2,048.3	-156.8	730.8	682.5	48.30	15.129		
9,700.0	7,800.0	7,936.3	7,821.2	34.2	21.4	-90.21	2,048.4	-156.7	659.5	608.3	51.24	12.870		
9,800.0	7,800.0	7,938.4	7,823.4	35.7	21.4	-90.45	2,048.4	-156.7	596.6	542.2	54.46	10.956		
9,900.0	7,800.0	7,940.6	7,825.5	37.3	21.4	-90.70	2,048.5	-156.6	544.9	487.2	57.65	9.452		
10,000.0	7,800.0	7,942.7	7,827.6	38.9	21.4	-90.95	2,048.5	-156.6	507.8	447.5	60.26	8.427		
10,100.0	7,800.0	7,944.8	7,829.7	40.5	21.4	-91.20	2,048.6	-156.5	488.7	427.1	61.57	7.937		
10,145.4	7,800.0	7,945.8	7,830.7	41.3	21.4	-91.32	2,048.6	-156.5	486.5	425.0	61.58	7.901 CC, ES, SF		
10,200.0	7,800.0	7,947.0	7,831.9	42.2	21.4	-91.46	2,048.6	-156.5	489.6	428.5	61.09	8.015		
10,300.0	7,800.0	7,949.1	7,834.0	43.8	21.5	-91.71	2,048.7	-156.4	510.5	451.6	58.94	8.661		
10,400.0	7,800.0	7,951.3	7,836.2	45.4	21.5	-91.96	2,048.7	-156.4	549.1	493.3	55.80	9.841		
10,500.0	7,800.0	7,953.4	7,838.3	47.1	21.5	-92.22	2,048.8	-156.3	602.0	549.6	52.41	11.488		
10,600.0	7,800.0	7,955.6	7,840.5	48.7	21.5	-92.47	2,048.8	-156.3	665.8	616.6	49.26	13.517		
10,700.0	7,800.0	7,957.8	7,842.7	50.4	21.5	-92.73	2,048.9	-156.2	737.7	691.1	46.56	15.843		
10,800.0	7,800.0	7,960.0	7,844.9	52.1	21.5	-92.99	2,048.9	-156.2	815.5	771.2	44.36	18.385		
10,900.0	7,800.0	7,962.2	7,847.1	53.7	21.5	-93.25	2,049.0	-156.2	897.7	855.1	42.59	21.077		
11,000.0	7,800.0	7,964.4	7,849.3	55.4	21.5	-93.50	2,049.0	-156.1	983.2	942.0	41.19	23.868		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29TD - SYNERGY - SURVEYS														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	0.0	0.0	0.0	0.0	14.36	280.1	71.7	289.4						
100.0	100.0	87.5	87.5	0.1	0.2	14.38	280.1	71.8	289.2	288.9	0.28	1,038.750			
200.0	200.0	187.6	187.6	0.3	0.3	14.43	280.0	72.0	289.1	288.5	0.63	460.093			
300.0	300.0	287.6	287.6	0.5	0.5	14.52	279.9	72.5	289.1	288.1	0.98	295.451			
400.0	400.0	387.7	387.7	0.6	0.7	14.64	279.6	73.1	289.0	287.7	1.33	217.560			
500.0	500.0	487.7	487.7	0.8	0.9	14.81	279.4	73.8	289.0	287.3	1.68	172.146			
503.3	503.3	491.0	491.0	0.8	0.9	-134.19	279.4	73.9	289.0	287.3	1.69	170.966			
600.0	600.0	587.8	587.8	1.0	1.0	-134.23	279.0	74.8	290.1	288.1	2.03	142.932			
700.0	699.8	687.7	687.7	1.2	1.2	-134.67	278.6	75.9	293.6	291.3	2.39	123.090			
800.0	799.5	787.5	787.5	1.4	1.4	-135.51	278.1	77.2	299.7	296.9	2.75	108.901			
900.0	898.8	887.0	887.0	1.6	1.6	-136.69	277.6	78.7	307.9	304.8	3.13	98.479			
1,000.0	998.0	986.5	986.4	1.9	1.7	-137.87	277.0	80.3	316.6	313.1	3.51	90.314			
1,100.0	1,097.3	1,092.8	1,092.7	2.1	1.9	-139.10	275.6	81.8	324.6	320.7	3.90	83.328			
1,200.0	1,196.6	1,205.6	1,205.4	2.4	2.1	-140.68	270.8	80.8	329.5	325.2	4.29	76.879			
1,300.0	1,295.8	1,326.1	1,325.3	2.6	2.4	-142.52	259.2	77.7	329.0	324.3	4.68	70.356			
1,400.0	1,395.1	1,436.6	1,434.6	2.9	2.6	-144.17	243.5	74.7	324.3	319.2	5.05	64.238			
1,500.0	1,494.4	1,547.9	1,544.1	3.2	2.9	-146.18	224.0	69.8	316.3	310.9	5.41	58.501			
1,600.0	1,593.6	1,654.8	1,648.5	3.4	3.3	-148.27	201.7	64.7	305.2	299.4	5.76	52.991			
1,700.0	1,692.9	1,757.7	1,748.5	3.7	3.7	-150.68	178.4	58.6	292.7	286.6	6.11	47.893			
1,800.0	1,792.2	1,862.0	1,849.4	4.0	4.1	-153.57	153.0	51.5	279.1	272.6	6.46	43.170			
1,900.0	1,891.5	1,957.3	1,941.6	4.2	4.5	-156.17	129.4	46.4	265.5	258.7	6.84	38.822			
2,000.0	1,990.7	2,058.9	2,039.9	4.5	4.9	-159.10	104.1	41.6	252.4	245.2	7.22	34.942			
2,100.0	2,090.0	2,158.5	2,136.1	4.8	5.3	-162.25	78.4	37.2	239.1	231.4	7.64	31.308			
2,200.0	2,189.3	2,254.8	2,229.1	5.0	5.8	-165.53	53.8	33.3	226.7	218.6	8.09	28.027			
2,300.0	2,288.5	2,351.1	2,322.3	5.3	6.2	-169.20	30.1	29.0	216.1	207.5	8.59	25.156			
2,400.0	2,387.8	2,449.4	2,417.6	5.6	6.6	-173.19	6.4	24.7	207.1	197.9	9.15	22.639			
2,500.0	2,487.1	2,549.2	2,514.2	5.9	7.1	-177.74	-18.2	20.0	198.7	188.9	9.79	20.300			
2,600.0	2,586.3	2,647.1	2,608.8	6.1	7.5	-177.36	-42.8	15.5	191.3	180.8	10.53	18.173			
2,700.0	2,685.6	2,743.1	2,701.8	6.4	8.0	-172.21	-66.2	10.3	186.6	175.2	11.36	16.427			
2,800.0	2,784.9	2,842.0	2,797.8	6.7	8.4	-166.88	-89.4	5.0	184.1	171.8	12.25	15.022			
2,900.0	2,884.1	2,941.1	2,893.9	6.9	8.8	-161.43	-113.3	0.4	182.3	169.1	13.23	13.783			
2,925.5	2,909.4	2,965.7	2,917.6	7.0	9.0	-159.98	-119.4	-1.0	182.2	168.7	13.49	13.505 CC			
3,000.0	2,983.4	3,039.1	2,988.5	7.2	9.3	-155.45	-138.1	-5.7	182.9	168.5	14.30	12.783 ES			
3,100.0	3,082.7	3,137.9	3,083.8	7.5	9.8	-149.38	-163.6	-11.6	185.0	169.6	15.40	12.012			
3,200.0	3,182.0	3,234.0	3,176.6	7.8	10.2	-143.91	-187.6	-17.1	189.3	172.9	16.44	11.517			
3,300.0	3,281.2	3,331.1	3,270.6	8.0	10.7	-138.73	-211.3	-23.9	196.7	179.2	17.42	11.288			
3,400.0	3,380.5	3,431.7	3,367.7	8.3	11.2	-133.65	-236.4	-30.5	205.1	186.7	18.40	11.144			
3,500.0	3,479.8	3,529.3	3,461.6	8.6	11.7	-128.70	-262.4	-36.4	214.3	195.0	19.31	11.096 SF			
3,600.0	3,579.0	3,629.9	3,558.7	8.8	12.1	-124.26	-288.4	-42.2	224.8	204.6	20.15	11.156			
3,700.0	3,678.3	3,727.9	3,653.5	9.1	12.6	-120.66	-312.5	-47.1	235.5	214.7	20.88	11.283			
3,800.0	3,777.6	3,824.2	3,746.8	9.4	13.0	-117.53	-335.7	-52.4	247.7	226.2	21.55	11.495			
3,900.0	3,876.8	3,919.9	3,839.3	9.7	13.5	-114.58	-359.4	-58.5	261.6	239.4	22.18	11.791			
4,000.0	3,976.1	4,018.2	3,934.2	9.9	14.0	-111.78	-384.2	-65.2	276.5	253.7	22.81	12.119			
4,100.0	4,075.4	4,118.7	4,031.2	10.2	14.4	-109.19	-409.6	-71.5	291.5	268.1	23.43	12.442			
4,200.0	4,174.6	4,219.4	4,128.6	10.5	14.9	-106.89	-434.7	-77.1	306.3	282.3	24.02	12.749			
4,300.0	4,273.9	4,322.4	4,228.8	10.8	15.3	-105.15	-457.9	-82.2	320.2	295.7	24.59	13.023			
4,400.0	4,373.2	4,425.7	4,330.1	11.0	15.7	-104.19	-477.4	-87.0	333.1	307.9	25.15	13.245			
4,500.0	4,472.5	4,529.8	4,432.7	11.3	16.1	-103.67	-494.6	-91.2	344.6	318.9	25.70	13.406			
4,600.0	4,571.7	4,633.3	4,535.2	11.6	16.4	-103.50	-509.4	-94.5	354.7	328.5	26.25	13.515			
4,700.0	4,671.0	4,738.2	4,639.3	11.8	16.6	-103.70	-521.9	-97.4	363.8	337.0	26.78	13.583			
4,800.0	4,770.3	4,845.8	4,746.4	12.1	16.8	-104.36	-531.2	-99.3	371.0	343.6	27.32	13.580			
4,900.0	4,869.5	4,946.5	4,846.9	12.4	17.0	-105.19	-538.1	-100.2	376.8	349.0	27.83	13.540			

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29TD - SYNERGY - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 1020-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,000.0	4,968.8	5,044.3	4,944.5	12.7	17.2	106.05	-544.3	-101.4	383.0	354.6	28.32	13.521		
5,100.0	5,068.1	5,141.8	5,041.8	12.9	17.4	107.03	-549.6	-103.4	389.7	360.9	28.80	13.531		
5,200.0	5,167.3	5,253.8	5,153.8	13.2	17.5	108.53	-552.6	-104.6	395.1	365.9	29.27	13.498		
5,300.0	5,266.6	5,352.7	5,252.6	13.5	17.6	110.04	-553.5	-104.8	399.5	369.7	29.71	13.445		
5,400.0	5,365.9	5,451.2	5,351.2	13.8	17.7	111.54	-554.2	-105.1	404.2	374.1	30.13	13.415		
5,500.0	5,465.1	5,548.9	5,448.8	14.0	17.8	113.02	-554.7	-105.7	409.5	379.0	30.53	13.415		
5,600.0	5,564.4	5,647.0	5,546.9	14.3	17.9	114.48	-555.1	-106.8	415.5	384.6	30.91	13.442		
5,700.0	5,663.7	5,746.1	5,646.0	14.6	18.0	115.91	-555.7	-107.9	421.9	390.6	31.29	13.485		
5,800.0	5,763.0	5,845.6	5,745.5	14.9	18.1	117.28	-556.4	-109.1	428.6	396.9	31.65	13.541		
5,900.0	5,862.2	5,945.7	5,845.6	15.1	18.2	118.64	-556.8	-110.1	435.3	403.3	32.00	13.606		
6,000.0	5,961.5	6,045.3	5,945.2	15.4	18.3	119.99	-557.0	-111.0	442.1	409.8	32.32	13.679		
6,100.0	6,060.8	6,144.4	6,044.3	15.7	18.4	121.35	-556.8	-111.9	449.2	416.6	32.63	13.766		
6,200.0	6,160.0	6,243.6	6,143.5	15.9	18.5	122.70	-556.2	-112.7	456.5	423.6	32.92	13.866		
6,300.0	6,259.3	6,342.8	6,242.7	16.2	18.6	124.04	-555.4	-113.6	464.1	430.9	33.20	13.977		
6,400.0	6,358.6	6,444.3	6,344.2	16.5	18.7	125.42	-554.2	-114.2	471.7	438.2	33.45	14.100		
6,500.0	6,457.8	6,546.3	6,446.1	16.8	18.7	126.89	-552.0	-114.1	479.0	445.3	33.68	14.221		
6,600.0	6,557.1	6,646.2	6,546.0	17.0	18.8	128.38	-549.1	-113.5	486.1	452.3	33.88	14.349		
6,700.0	6,656.4	6,745.5	6,645.3	17.3	18.9	129.85	-545.9	-112.7	493.4	459.4	34.06	14.487		
6,800.0	6,756.0	6,839.6	6,739.3	17.5	18.9	170.86	-542.6	-112.4	500.8	466.6	34.18	14.651		
6,900.0	6,855.7	6,934.1	6,833.7	17.6	19.0	-119.54	-539.0	-113.1	507.4	473.1	34.28	14.801		
7,000.0	6,954.9	7,030.0	6,929.5	17.6	19.0	-99.02	-534.9	-114.5	513.0	478.6	34.36	14.931		
7,100.0	7,052.8	7,125.5	7,024.9	17.5	19.1	-93.18	-530.2	-116.6	517.8	483.4	34.41	15.048		
7,200.0	7,148.7	7,223.6	7,122.8	17.3	19.1	-91.94	-524.6	-118.7	521.9	487.5	34.40	15.169		
7,300.0	7,241.7	7,320.4	7,219.4	17.1	19.1	-92.92	-518.3	-120.6	525.9	491.6	34.32	15.322		
7,400.0	7,331.3	7,417.1	7,315.9	16.8	19.2	-95.33	-511.5	-121.8	530.8	496.7	34.14	15.549		
7,500.0	7,416.7	7,510.1	7,408.5	16.5	19.2	-98.55	-504.6	-122.2	538.0	504.2	33.82	15.905		
7,600.0	7,497.2	7,597.5	7,495.8	16.2	19.2	-102.14	-498.0	-122.2	549.4	516.0	33.38	16.460		
7,700.0	7,572.3	7,679.7	7,577.6	16.0	19.2	-105.76	-491.8	-121.7	566.9	534.1	32.82	17.275		
7,800.0	7,640.3	7,748.5	7,646.4	15.8	19.3	-107.94	-487.5	-121.0	592.8	560.5	32.22	18.398		
7,900.0	7,697.6	7,804.7	7,702.5	15.7	19.4	-108.73	-485.2	-120.3	629.8	598.2	31.54	19.969		
8,000.0	7,742.9	7,847.4	7,745.2	15.7	19.4	-107.72	-484.3	-119.7	678.6	647.7	30.87	21.984		
8,100.0	7,775.5	7,877.8	7,775.5	15.9	19.4	-104.50	-484.0	-119.2	738.3	708.1	30.29	24.377		
8,200.0	7,794.6	7,895.7	7,793.5	16.2	19.5	-98.65	-483.9	-118.9	807.1	777.3	29.83	27.053		
8,300.0	7,800.0	7,900.8	7,798.6	16.7	19.5	-91.15	-483.9	-118.8	882.4	852.9	29.50	29.910		
8,400.0	7,800.0	7,901.0	7,798.8	17.4	19.5	-91.16	-483.9	-118.8	962.3	933.0	29.29	32.852		
8,500.0	7,800.0	7,901.2	7,798.9	18.3	19.5	-91.18	-483.9	-118.8	1,045.6	1,016.4	29.18	35.830		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 29XD - SYNERGY - GYRO												Offset Site Error: 0.0 ft			
Survey Program: 100-Geolink MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	15.67	276.5	77.6	288.3						
100.0	100.0	73.7	73.7	0.1	0.1	15.72	276.5	77.8	287.3	287.0	0.25	1,130.980 CC			
200.0	200.0	174.3	174.3	0.3	0.3	15.88	276.5	78.7	287.5	286.9	0.60	475.367 ES			
300.0	300.0	268.9	268.9	0.5	0.5	16.19	276.7	80.3	288.2	287.3	0.95	303.501			
400.0	400.0	360.5	360.4	0.6	0.7	16.93	278.6	84.8	291.6	290.3	1.30	224.455			
500.0	500.0	451.8	451.2	0.8	0.9	18.10	282.3	92.3	297.9	296.3	1.66	179.391			
600.0	600.0	542.1	540.8	1.0	1.1	-129.47	287.7	102.4	308.4	306.3	2.04	151.464			
700.0	699.8	632.1	629.6	1.2	1.4	-128.13	294.9	115.3	324.1	321.7	2.43	133.218			
800.0	799.5	722.7	718.4	1.4	1.8	-126.87	303.4	130.9	344.3	341.4	2.87	120.139			
900.0	898.8	812.1	805.5	1.6	2.2	-125.90	312.8	148.9	368.5	365.2	3.33	110.723			
1,000.0	998.0	905.5	896.0	1.9	2.6	-125.02	323.2	169.4	394.4	390.6	3.82	103.112			
1,100.0	1,097.3	1,000.7	988.1	2.1	3.0	-124.12	334.0	191.1	420.8	416.5	4.34	96.984			
1,200.0	1,196.6	1,101.9	1,085.8	2.4	3.5	-123.16	344.7	214.8	447.0	442.1	4.90	91.295			
1,300.0	1,295.8	1,200.7	1,181.4	2.6	4.0	-122.24	354.1	238.3	472.4	467.0	5.44	86.794			
1,400.0	1,395.1	1,302.9	1,280.3	2.9	4.5	-121.34	362.9	262.6	497.1	491.1	6.02	82.624			
1,500.0	1,494.4	1,396.3	1,370.6	3.2	4.9	-120.49	370.2	285.4	521.7	515.1	6.56	79.541			
1,600.0	1,593.6	1,487.2	1,458.2	3.4	5.4	-119.70	378.0	308.3	547.2	540.1	7.08	77.259			
1,700.0	1,692.9	1,582.5	1,550.0	3.7	5.9	-118.98	386.8	332.2	573.5	565.8	7.62	75.212			
1,800.0	1,792.2	1,687.5	1,651.3	4.0	6.4	-118.29	396.1	358.1	599.2	591.0	8.21	73.010			
1,900.0	1,891.5	1,786.4	1,747.0	4.2	6.9	-117.72	404.0	381.7	624.0	615.2	8.76	71.238			
2,000.0	1,990.7	1,882.8	1,840.3	4.5	7.3	-117.23	411.8	404.5	648.7	639.4	9.30	69.771			
2,100.0	2,090.0	1,981.4	1,935.8	4.8	7.8	-116.73	419.6	428.1	673.4	663.5	9.86	68.311			
2,200.0	2,189.3	2,076.5	2,027.7	5.0	8.3	-116.21	426.5	451.4	698.0	687.6	10.40	67.119			
2,300.0	2,288.5	2,168.6	2,116.6	5.3	8.7	-115.72	433.4	474.6	723.2	712.2	10.93	66.134			
2,400.0	2,387.8	2,268.2	2,212.6	5.6	9.2	-115.18	440.9	500.1	748.7	737.2	11.50	65.115			
2,500.0	2,487.1	2,363.1	2,304.2	5.9	9.7	-114.78	448.2	523.4	773.8	761.8	12.02	64.363			
2,600.0	2,586.3	2,457.4	2,395.5	6.1	10.2	-114.49	456.5	545.9	799.4	786.9	12.55	63.724			
2,700.0	2,685.6	2,554.8	2,489.6	6.4	10.6	-114.19	465.0	569.3	825.1	812.0	13.09	63.026			
2,800.0	2,784.9	2,643.2	2,575.0	6.7	11.1	-113.89	472.4	591.3	851.0	837.4	13.59	62.628			
2,900.0	2,884.1	2,733.2	2,661.6	6.9	11.5	-113.64	481.4	613.8	878.3	864.2	14.09	62.336			
3,000.0	2,983.4	2,837.0	2,761.7	7.2	12.1	-113.35	490.9	639.6	904.8	890.2	14.67	61.685			
3,100.0	3,082.7	2,926.8	2,848.1	7.5	12.5	-113.06	498.9	662.6	931.7	916.5	15.18	61.391			
3,200.0	3,182.0	3,020.9	2,938.6	7.8	13.0	-112.79	507.8	687.0	959.1	943.4	15.70	61.070			
3,300.0	3,281.2	3,121.9	3,035.8	8.0	13.6	-112.50	516.9	713.1	986.2	970.0	16.27	60.616			
3,400.0	3,380.5	3,221.3	3,131.4	8.3	14.1	-112.21	525.5	738.8	1,013.0	996.2	16.83	60.198			
3,500.0	3,479.8	3,319.3	3,225.7	8.6	14.6	-111.93	533.6	764.2	1,039.7	1,022.3	17.38	59.813			
8,000.0	7,742.9	7,832.6	7,692.7	15.7	24.7	67.25	689.8	1,151.1	1,055.8	1,024.7	31.14	33.912			
8,100.0	7,775.5	7,866.1	7,726.2	15.9	24.8	75.90	690.2	1,151.8	992.6	962.4	30.19	32.882			
8,200.0	7,794.6	7,886.2	7,746.4	16.2	24.8	83.36	690.4	1,152.3	932.8	903.5	29.32	31.821			
8,300.0	7,800.0	7,892.7	7,752.8	16.7	24.8	88.38	690.5	1,152.4	879.4	850.7	28.74	30.605			
8,400.0	7,800.0	7,893.7	7,753.8	17.4	24.8	88.45	690.5	1,152.4	834.7	805.9	28.72	29.065			
8,500.0	7,800.0	7,894.7	7,754.9	18.3	24.8	88.53	690.5	1,152.4	799.9	770.4	29.49	27.126			
8,600.0	7,800.0	7,895.8	7,755.9	19.2	24.8	88.61	690.5	1,152.5	776.6	745.5	31.15	24.931			
8,700.0	7,800.0	7,896.8	7,757.0	20.3	24.8	88.69	690.5	1,152.5	765.7	732.1	33.60	22.790			
8,733.9	7,800.0	7,897.2	7,757.3	20.6	24.8	88.71	690.5	1,152.5	765.0	730.4	34.57	22.129			
8,800.0	7,800.0	7,897.9	7,758.0	21.4	24.8	88.76	690.5	1,152.5	767.8	731.3	36.55	21.008			
8,900.0	7,800.0	7,898.9	7,759.0	22.6	24.8	88.84	690.5	1,152.5	782.8	743.2	39.65	19.745			
9,000.0	7,800.0	7,900.0	7,760.1	23.9	24.8	88.93	690.5	1,152.6	810.0	767.4	42.58	19.023			
9,100.0	7,800.0	7,901.0	7,761.2	25.3	24.8	89.00	690.6	1,152.6	848.1	802.9	45.15	18.783 SF			
9,200.0	7,800.0	7,902.1	7,762.3	26.7	24.8	89.08	690.6	1,152.6	895.8	848.5	47.29	18.941			
9,300.0	7,800.0	7,903.2	7,763.4	28.1	24.8	89.17	690.6	1,152.6	951.7	902.7	49.01	19.417			
9,400.0	7,800.0	7,904.3	7,764.5	29.6	24.8	89.25	690.6	1,152.7	1,014.3	964.0	50.35	20.144			

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 33-29PD - SYNERGY - SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 127-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	-5.13	339.9	-30.5	341.5						
100.0	100.0	87.1	87.1	0.1	0.1	-5.13	340.0	-30.5	341.3	341.1	0.26	1,306.551	CC, ES		
200.0	200.0	184.4	184.4	0.3	0.3	-5.15	340.3	-30.7	341.7	341.1	0.60	570.863			
300.0	300.0	283.4	283.3	0.5	0.5	-5.25	341.5	-31.4	342.9	342.0	0.95	362.388			
400.0	400.0	384.4	384.4	0.6	0.7	-5.46	342.4	-32.7	344.0	342.7	1.30	265.009			
500.0	500.0	482.5	482.4	0.8	0.8	-5.71	343.3	-34.3	345.1	343.4	1.65	209.653			
600.0	600.0	581.4	581.3	1.0	1.0	-155.32	344.6	-37.6	348.3	346.3	2.00	174.067			
700.0	699.8	681.7	681.5	1.2	1.2	-156.42	345.8	-42.7	354.8	352.5	2.37	149.982			
800.0	799.5	778.1	777.7	1.4	1.4	-157.72	347.0	-48.3	364.9	362.2	2.73	133.719			
900.0	898.8	870.0	869.4	1.6	1.6	-158.98	349.1	-53.2	378.9	375.9	3.08	123.097			
1,000.0	998.0	966.6	965.9	1.9	1.8	-160.15	352.5	-57.5	394.6	391.1	3.43	114.881			
1,100.0	1,097.3	1,059.9	1,059.0	2.1	2.0	-161.15	356.9	-61.8	411.5	407.7	3.78	108.835			
1,200.0	1,196.6	1,149.0	1,147.8	2.4	2.1	-161.98	362.5	-65.7	430.0	425.9	4.11	104.529			
1,300.0	1,295.8	1,241.0	1,239.3	2.6	2.4	-162.90	370.2	-71.3	451.0	446.5	4.46	101.092			
1,400.0	1,395.1	1,318.8	1,316.4	2.9	2.6	-163.79	378.6	-77.9	474.9	470.1	4.77	99.579			
1,500.0	1,494.4	1,403.0	1,399.4	3.2	2.8	-164.76	389.6	-86.3	501.5	496.4	5.09	98.496			
1,600.0	1,593.6	1,485.5	1,480.4	3.4	3.1	-165.72	401.9	-96.0	530.6	525.1	5.41	98.087	SF		
1,700.0	1,692.9	1,568.3	1,561.3	3.7	3.4	-166.69	415.8	-107.1	562.1	556.4	5.72	98.229			
1,800.0	1,792.2	1,657.0	1,647.6	4.0	3.8	-167.60	432.2	-119.2	595.4	589.3	6.05	98.340			
1,900.0	1,891.5	1,745.4	1,733.5	4.2	4.1	-168.48	448.6	-131.9	629.1	622.7	6.39	98.504			
2,000.0	1,990.7	1,827.1	1,812.6	4.5	4.5	-169.28	464.8	-144.9	664.6	657.9	6.69	99.285			
2,100.0	2,090.0	1,913.9	1,896.2	4.8	4.9	-170.09	482.8	-159.4	701.3	694.3	7.02	99.939			
2,200.0	2,189.3	1,992.0	1,971.4	5.0	5.3	-170.72	499.7	-172.2	738.9	731.6	7.30	101.210			
2,300.0	2,288.5	2,067.2	2,043.4	5.3	5.7	-171.23	517.5	-184.7	778.6	771.0	7.57	102.785			
2,400.0	2,387.8	2,141.1	2,113.4	5.6	6.1	-171.71	536.8	-197.9	820.7	812.9	7.84	104.636			
2,500.0	2,487.1	2,234.3	2,201.5	5.9	6.6	-172.29	561.9	-215.4	864.0	855.9	8.18	105.567			
2,600.0	2,586.3	2,335.7	2,297.8	6.1	7.2	-172.86	587.9	-233.7	906.0	897.5	8.56	105.810			
2,700.0	2,685.6	2,417.8	2,375.8	6.4	7.6	-173.36	608.3	-249.7	947.9	939.1	8.86	106.976			
2,800.0	2,784.9	2,501.0	2,454.4	6.7	8.1	-173.77	630.2	-265.5	991.0	981.8	9.16	108.163			
2,900.0	2,884.1	2,609.4	2,557.0	6.9	8.7	-174.27	658.2	-286.1	1,033.8	1,024.2	9.56	108.113			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 34-29D - SYNERGY - SURVEYS														Offset Site Error: 0.0 ft	
Survey Program: 217-MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	0.55	319.9	3.1	320.9						
100.0	100.0	75.4	75.4	0.1	0.1	0.61	319.8	3.4	319.8	319.5	0.26	1,224.686			
200.0	200.0	176.5	176.5	0.3	0.3	0.90	319.3	5.0	319.3	318.7	0.62	516.432			
300.0	300.0	278.7	278.6	0.5	0.5	1.28	318.3	7.1	318.4	317.5	0.97	327.854			
400.0	400.0	377.8	377.7	0.6	0.7	1.21	317.0	6.7	317.1	315.8	1.31	241.589			
500.0	500.0	477.8	477.7	0.8	0.8	0.76	316.1	4.2	316.2	314.5	1.66	190.762			
540.9	540.9	519.4	519.3	0.9	0.9	-148.51	315.7	2.8	316.0	314.2	1.80	175.394 CC, ES			
600.0	600.0	579.7	579.5	1.0	1.0	-149.07	314.9	0.5	316.4	314.4	2.01	157.324			
700.0	699.8	677.4	677.2	1.2	1.2	-150.21	313.6	-3.4	319.6	317.3	2.36	135.241			
800.0	799.5	777.0	776.7	1.4	1.4	-151.36	312.6	-6.0	326.4	323.7	2.72	119.914			
900.0	898.8	874.5	874.2	1.6	1.5	-152.56	312.0	-7.7	336.2	333.1	3.08	109.120			
1,000.0	998.0	973.8	973.5	1.9	1.7	-153.79	311.6	-9.6	346.7	343.3	3.44	100.673			
1,100.0	1,097.3	1,073.6	1,073.2	2.1	1.9	-155.00	311.0	-11.8	357.3	353.5	3.81	93.805			
1,200.0	1,196.6	1,172.3	1,171.9	2.4	2.1	-156.15	310.5	-14.0	368.0	363.8	4.17	88.250			
1,300.0	1,295.8	1,271.7	1,271.3	2.6	2.3	-157.25	309.9	-16.3	378.8	374.3	4.53	83.591			
1,400.0	1,395.1	1,371.7	1,371.2	2.9	2.4	-158.30	309.3	-18.7	389.8	384.9	4.89	79.672			
1,500.0	1,494.4	1,475.4	1,474.9	3.2	2.6	-159.28	308.0	-20.7	400.2	394.9	5.26	76.025			
1,600.0	1,593.6	1,577.1	1,576.5	3.4	2.8	-160.67	305.0	-25.8	409.6	403.9	5.64	72.631			
1,700.0	1,692.9	1,677.7	1,676.6	3.7	3.0	-162.49	301.0	-34.4	419.0	413.0	6.03	69.514			
1,800.0	1,792.2	1,776.7	1,774.7	4.0	3.3	-164.69	295.7	-46.3	428.5	422.0	6.43	66.622			
1,900.0	1,891.5	1,876.1	1,872.8	4.2	3.5	-167.14	289.6	-60.7	438.5	431.6	6.86	63.937			
2,000.0	1,990.7	1,979.2	1,974.4	4.5	3.8	-169.83	281.8	-77.3	448.6	441.3	7.32	61.264			
2,100.0	2,090.0	2,076.0	2,069.2	4.8	4.2	-172.48	273.1	-94.4	458.9	451.1	7.80	58.849			
2,200.0	2,189.3	2,168.8	2,159.7	5.0	4.5	-175.19	264.3	-113.1	470.8	462.5	8.30	56.721			
2,300.0	2,288.5	2,257.4	2,245.5	5.3	4.9	-177.93	255.8	-133.5	485.0	476.2	8.81	55.040			
2,400.0	2,387.8	2,358.4	2,342.9	5.6	5.3	178.98	245.9	-158.0	501.0	491.6	9.40	53.308			
2,500.0	2,487.1	2,456.4	2,437.5	5.9	5.7	176.13	235.1	-181.5	517.2	507.2	9.98	51.803			
2,600.0	2,586.3	2,556.4	2,534.0	6.1	6.2	173.36	223.5	-205.3	534.0	523.4	10.59	50.429			
2,700.0	2,685.6	2,647.0	2,621.4	6.4	6.6	171.06	213.3	-226.4	551.9	540.7	11.13	49.563			
2,800.0	2,784.9	2,741.0	2,712.4	6.7	7.0	168.91	203.8	-248.0	571.3	559.6	11.69	48.886			
2,900.0	2,884.1	2,831.1	2,799.4	6.9	7.4	166.93	194.8	-269.5	592.2	579.9	12.24	48.381			
3,000.0	2,983.4	2,929.7	2,894.5	7.2	7.9	164.82	184.4	-293.8	613.9	601.1	12.84	47.826			
3,100.0	3,082.7	3,022.0	2,983.4	7.5	8.3	162.96	174.5	-316.5	636.4	623.0	13.40	47.485			
3,200.0	3,182.0	3,108.5	3,066.5	7.8	8.8	161.31	165.6	-338.6	660.4	646.5	13.92	47.436			
3,300.0	3,281.2	3,216.3	3,172.1	8.0	8.7	161.71	174.8	-348.7	684.5	670.5	14.00	48.884			
3,400.0	3,380.5	3,303.0	3,257.3	8.3	9.1	161.96	182.0	-357.3	708.8	694.3	14.51	48.839			
3,500.0	3,479.8	3,418.5	3,369.1	8.6	9.7	160.22	171.5	-384.6	732.4	717.2	15.19	48.227			
3,600.0	3,579.0	3,509.6	3,457.1	8.8	10.1	158.89	162.3	-406.0	755.8	740.1	15.72	48.082			
3,700.0	3,678.3	3,610.2	3,554.0	9.1	10.6	157.39	151.1	-430.7	779.9	763.6	16.32	47.790			
3,800.0	3,777.6	3,718.5	3,658.9	9.4	11.1	155.96	138.7	-455.0	802.4	785.5	16.94	47.357			
3,900.0	3,876.8	3,808.6	3,745.9	9.7	11.5	154.82	128.3	-475.3	825.5	808.1	17.47	47.256 SF			
4,000.0	3,976.1	3,895.5	3,829.8	9.9	11.9	153.72	117.9	-495.8	849.5	831.6	17.97	47.264			
4,100.0	4,075.4	3,973.3	3,904.7	10.2	12.3	152.81	109.6	-515.1	875.6	857.2	18.41	47.570			
4,200.0	4,174.6	4,055.7	3,984.0	10.5	12.7	151.97	102.6	-536.1	903.5	884.7	18.85	47.942			
4,300.0	4,273.9	4,159.6	4,084.1	10.8	13.3	150.99	94.1	-562.8	931.9	912.5	19.44	47.946			
4,400.0	4,373.2	4,270.1	4,190.9	11.0	13.8	150.02	84.3	-589.5	958.9	938.9	20.04	47.840			
4,500.0	4,472.5	4,367.2	4,285.2	11.3	14.2	149.35	77.3	-611.6	985.7	965.2	20.53	48.003			
4,600.0	4,571.7	4,473.9	4,389.5	11.6	14.6	148.85	72.3	-633.6	1,011.8	990.8	21.05	48.069			
4,700.0	4,671.0	4,583.9	4,497.3	11.8	15.0	148.44	67.6	-654.6	1,037.0	1,015.4	21.57	48.083			

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 41-29D - SYNERGY - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 248-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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,100.0	7,800.0	7,948.8	7,814.7	57.1	23.2	86.81	4,039.0	423.6	1,025.2	992.0	33.18	30.893		
11,200.0	7,800.0	7,950.6	7,816.5	58.8	23.2	87.40	4,039.0	423.5	926.8	893.4	33.44	27.719		
11,300.0	7,800.0	7,952.5	7,818.3	60.5	23.2	87.99	4,039.1	423.4	828.8	795.0	33.84	24.494		
11,400.0	7,800.0	7,954.3	7,820.2	62.2	23.2	88.59	4,039.1	423.3	731.4	696.9	34.50	21.200		
11,500.0	7,800.0	7,956.1	7,822.0	63.9	23.2	89.19	4,039.1	423.2	634.8	599.2	35.61	17.827		
11,600.0	7,800.0	7,958.0	7,823.8	65.6	23.2	89.78	4,039.2	423.1	539.5	501.9	37.51	14.381		
11,700.0	7,800.0	7,959.8	7,825.7	67.3	23.2	90.38	4,039.2	423.0	446.1	405.3	40.85	10.921		
11,800.0	7,800.0	7,961.6	7,827.5	69.0	23.2	90.98	4,039.2	422.9	356.4	309.5	46.84	7.609		
11,900.0	7,800.0	7,963.5	7,829.3	70.7	23.2	91.57	4,039.2	422.8	273.8	216.1	57.73	4.742		
12,000.0	7,800.0	7,965.3	7,831.2	72.4	23.2	92.17	4,039.3	422.8	207.2	131.1	76.14	2.722		
12,100.0	7,800.0	7,967.1	7,833.0	74.2	23.2	92.77	4,039.3	422.7	175.6	80.4	95.15	1.845		
12,112.1	7,800.0	7,967.3	7,833.2	74.4	23.2	92.84	4,039.3	422.7	175.2	78.9	96.32	1.819 CC, ES, SF		
12,200.0	7,800.0	7,968.9	7,834.7	75.9	23.3	93.33	4,039.3	422.6	195.4	101.4	93.98	2.079		
12,300.0	7,800.0	7,970.5	7,836.4	77.6	23.3	93.82	4,039.4	422.5	254.8	174.4	80.41	3.169		
12,400.0	7,800.0	7,972.1	7,838.0	79.3	23.3	94.26	4,039.4	422.4	333.2	264.5	68.70	4.850		
12,500.0	7,800.0	7,973.7	7,839.5	81.0	23.3	94.75	4,039.4	422.3	420.7	359.9	60.79	6.920		
12,600.0	7,800.0	7,975.2	7,841.1	82.8	23.3	95.24	4,039.4	422.3	512.8	457.2	55.57	9.228		
12,700.0	7,800.0	7,976.8	7,842.6	84.5	23.3	95.74	4,039.5	422.2	607.3	555.3	52.01	11.677		
12,800.0	7,800.0	7,978.3	7,844.2	86.2	23.3	96.23	4,039.5	422.1	703.4	653.9	49.51	14.206		
12,900.0	7,800.0	7,979.9	7,845.7	88.0	23.3	96.72	4,039.5	422.0	800.4	752.7	47.70	16.780		
13,000.0	7,800.0	7,981.5	7,847.3	89.7	23.3	97.21	4,039.5	422.0	898.1	851.8	46.36	19.374		
13,100.0	7,800.0	7,983.0	7,848.8	91.4	23.3	97.70	4,039.6	421.9	996.3	950.9	45.34	21.975		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 42-29D - SYNERGY - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 125-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
9,600.0	7,800.0	7,916.7	7,846.5	32.6	18.8	94.11	2,530.3	631.0	1,044.4	1,009.7	34.67	30.122		
9,700.0	7,800.0	7,914.0	7,843.8	34.2	18.8	93.63	2,530.3	630.9	949.8	914.6	35.12	27.042		
9,800.0	7,800.0	7,911.3	7,841.1	35.7	18.8	93.15	2,530.4	630.9	856.3	820.5	35.79	23.926		
9,900.0	7,800.0	7,908.6	7,838.5	37.3	18.8	92.68	2,530.5	630.9	764.5	727.7	36.80	20.775		
10,000.0	7,800.0	7,906.0	7,835.8	38.9	18.8	92.20	2,530.5	630.8	675.0	636.7	38.32	17.615		
10,100.0	7,800.0	7,903.3	7,833.1	40.5	18.8	91.73	2,530.6	630.8	588.9	548.3	40.60	14.505		
10,200.0	7,800.0	7,900.7	7,830.5	42.2	18.8	91.25	2,530.7	630.8	508.0	464.0	43.94	11.559		
10,300.0	7,800.0	7,898.0	7,827.9	43.8	18.8	90.78	2,530.8	630.7	435.0	386.3	48.62	8.946		
10,400.0	7,800.0	7,895.4	7,825.2	45.4	18.8	90.31	2,530.8	630.7	374.6	320.1	54.54	6.868		
10,500.0	7,800.0	7,892.7	7,822.6	47.1	18.8	89.84	2,530.9	630.7	333.8	273.2	60.59	5.509		
10,594.5	7,800.0	7,890.3	7,820.1	48.6	18.8	89.39	2,531.0	630.7	320.2	255.9	64.31	4.979 CC		
10,600.0	7,800.0	7,890.1	7,820.0	48.7	18.8	89.37	2,531.0	630.7	320.3	255.8	64.43	4.971 ES, SF		
10,700.0	7,800.0	7,887.5	7,817.4	50.4	18.8	88.90	2,531.0	630.6	337.1	272.6	64.51	5.226		
10,800.0	7,800.0	7,884.9	7,814.8	52.1	18.8	88.44	2,531.1	630.6	380.5	318.4	62.01	6.135		
10,900.0	7,800.0	7,882.3	7,812.2	53.7	18.8	87.97	2,531.2	630.6	442.5	383.7	58.85	7.519		
11,000.0	7,800.0	7,879.7	7,809.6	55.4	18.8	87.51	2,531.2	630.5	516.6	460.6	55.98	9.228		
11,100.0	7,800.0	7,877.1	7,807.0	57.1	18.8	87.05	2,531.3	630.5	598.3	544.6	53.64	11.153		
11,200.0	7,800.0	7,874.6	7,804.4	58.8	18.8	86.59	2,531.3	630.5	684.8	633.0	51.78	13.225		
11,300.0	7,800.0	7,872.0	7,801.9	60.5	18.8	86.13	2,531.4	630.4	774.6	724.3	50.32	15.394		
11,400.0	7,800.0	7,870.0	7,799.9	62.2	18.8	85.77	2,531.5	630.4	866.6	817.4	49.16	17.629		
11,500.0	7,800.0	7,870.0	7,799.9	63.9	18.8	85.77	2,531.5	630.4	960.2	912.0	48.24	19.904		
11,600.0	7,800.0	7,870.0	7,799.9	65.6	18.8	85.77	2,531.5	630.4	1,055.0	1,007.5	47.51	22.208		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 43-29D - SYNERGY - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 211-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	3.71	310.4	20.2	311.2					
100.0	100.0	88.4	88.4	0.1	0.1	3.76	310.4	20.4	311.0	310.8	0.27	1,149.271		
200.0	200.0	188.3	188.3	0.3	0.3	3.90	310.4	21.2	311.1	310.5	0.61	510.014		
300.0	300.0	284.7	284.7	0.5	0.5	4.16	310.8	22.6	311.6	310.7	0.95	327.045		
400.0	400.0	376.6	376.5	0.6	0.6	4.54	312.8	24.8	314.0	312.7	1.29	243.002		
500.0	500.0	468.7	468.5	0.8	0.8	5.05	317.3	28.1	319.1	317.5	1.63	195.350		
600.0	600.0	558.6	558.0	1.0	1.0	-143.41	323.8	32.0	328.2	326.2	1.97	166.355		
700.0	699.8	645.2	644.0	1.2	1.3	-143.02	332.9	36.8	343.4	341.1	2.31	148.580		
800.0	799.5	731.0	728.7	1.4	1.5	-142.71	345.0	42.9	364.9	362.3	2.66	137.238		
900.0	898.8	816.1	812.3	1.6	1.8	-142.60	359.4	50.1	391.8	388.7	3.02	129.712		
1,000.0	998.0	902.1	896.1	1.9	2.2	-142.46	376.1	59.1	421.6	418.2	3.39	124.191		
1,100.0	1,097.3	994.1	985.5	2.1	2.6	-142.21	395.4	69.8	452.9	449.1	3.80	119.221		
1,200.0	1,196.6	1,084.5	1,073.1	2.4	3.0	-141.88	414.2	81.2	484.3	480.1	4.21	115.163		
1,300.0	1,295.8	1,163.4	1,149.2	2.6	3.4	-141.58	432.6	91.7	518.2	513.6	4.57	113.344		
1,400.0	1,395.1	1,247.7	1,230.0	2.9	3.8	-141.36	454.2	102.6	554.2	549.2	4.95	111.915		
1,500.0	1,494.4	1,329.7	1,308.1	3.2	4.3	-141.26	476.6	112.4	591.8	586.5	5.32	111.305		
1,600.0	1,593.6	1,415.6	1,389.9	3.4	4.7	-141.20	501.4	122.5	630.8	625.1	5.70	110.639		
1,700.0	1,692.9	1,512.0	1,481.3	3.7	5.3	-141.07	529.3	134.7	670.0	663.9	6.14	109.141		
1,800.0	1,792.2	1,604.1	1,568.8	4.0	5.8	-140.88	555.4	147.1	708.8	702.2	6.56	108.089		
1,900.0	1,891.5	1,712.7	1,672.2	4.2	6.4	-140.75	585.3	160.8	746.7	739.7	7.03	106.197		
2,000.0	1,990.7	1,816.9	1,772.3	4.5	6.9	-140.76	612.2	172.2	782.7	775.2	7.48	104.660		
2,100.0	2,090.0	1,907.6	1,859.3	4.8	7.4	-140.77	635.4	182.1	818.5	810.6	7.88	103.815		
2,200.0	2,189.3	2,024.7	1,972.3	5.0	8.0	-140.66	662.8	196.2	852.1	843.7	8.40	101.470		
2,300.0	2,288.5	2,104.1	2,048.8	5.3	8.4	-140.58	681.5	206.1	886.1	877.3	8.77	101.081		
2,400.0	2,387.8	2,188.1	2,129.6	5.6	8.8	-140.52	702.4	216.3	921.4	912.2	9.15	100.707		
2,500.0	2,487.1	2,281.2	2,218.9	5.9	9.3	-140.47	726.1	227.4	957.2	947.6	9.57	100.061		
2,600.0	2,586.3	2,395.8	2,329.3	6.1	9.8	-140.43	754.0	240.8	991.9	981.8	10.07	98.544		
2,700.0	2,685.6	2,495.8	2,425.9	6.4	10.3	-140.34	776.7	253.2	1,025.1	1,014.6	10.52	97.465		
2,800.0	2,784.9	2,578.7	2,505.8	6.7	10.8	-140.25	795.9	263.9	1,058.8	1,047.9	10.90	97.095		
8,400.0	7,800.0	7,937.3	7,785.2	17.4	25.0	89.00	1,370.5	549.9	1,055.9	1,024.8	31.11	33.940		
8,500.0	7,800.0	7,937.1	7,785.0	18.3	25.0	88.95	1,370.5	549.9	957.7	926.8	30.93	30.965		
8,600.0	7,800.0	7,936.9	7,784.8	19.2	25.0	88.89	1,370.5	549.9	859.9	829.2	30.70	28.011		
8,700.0	7,800.0	7,936.7	7,784.6	20.3	25.0	88.84	1,370.5	549.9	762.7	732.3	30.42	25.075		
8,800.0	7,800.0	7,936.5	7,784.4	21.4	25.0	88.79	1,370.5	549.9	666.4	636.3	30.09	22.144		
8,900.0	7,800.0	7,936.4	7,784.3	22.6	25.0	88.73	1,370.5	549.8	571.3	541.6	29.76	19.200		
9,000.0	7,800.0	7,936.2	7,784.1	23.9	25.0	88.67	1,370.5	549.8	478.3	448.7	29.53	16.198		
9,100.0	7,800.0	7,936.0	7,783.9	25.3	25.0	88.62	1,370.5	549.8	388.6	358.9	29.78	13.052		
9,200.0	7,800.0	7,935.8	7,783.7	26.7	25.0	88.56	1,370.5	549.8	305.5	274.0	31.58	9.675		
9,300.0	7,800.0	7,935.6	7,783.5	28.1	25.0	88.51	1,370.5	549.8	236.0	198.6	37.33	6.320		
9,400.0	7,800.0	7,935.4	7,783.3	29.6	25.0	88.45	1,370.5	549.8	194.9	146.7	48.16	4.047		
9,438.4	7,800.0	7,935.3	7,783.3	30.2	25.0	88.43	1,370.5	549.8	191.1	139.0	52.12	3.666 CC, ES		
9,500.0	7,800.0	7,935.2	7,783.1	31.1	25.0	88.39	1,370.5	549.8	200.8	145.0	55.74	3.602 SF		
9,600.0	7,800.0	7,935.0	7,782.9	32.6	25.0	88.34	1,370.5	549.8	250.2	195.2	55.00	4.550		
9,700.0	7,800.0	7,934.8	7,782.8	34.2	25.0	88.28	1,370.5	549.8	323.9	272.2	51.77	6.257		
9,800.0	7,800.0	7,934.7	7,782.6	35.7	25.0	88.22	1,370.5	549.8	409.0	360.0	48.99	8.348		
9,900.0	7,800.0	7,934.5	7,782.4	37.3	25.0	88.16	1,370.5	549.8	499.6	452.6	46.96	10.639		
10,000.0	7,800.0	7,934.3	7,782.2	38.9	25.0	88.10	1,370.5	549.8	593.2	547.7	45.50	13.036		
10,100.0	7,800.0	7,934.1	7,782.0	40.5	25.0	88.04	1,370.5	549.8	688.6	644.2	44.45	15.492		
10,200.0	7,800.0	7,933.9	7,781.8	42.2	25.0	87.99	1,370.5	549.8	785.2	741.5	43.67	17.979		
10,300.0	7,800.0	7,933.7	7,781.6	43.8	25.0	87.93	1,370.5	549.8	882.5	839.4	43.09	20.481		
10,400.0	7,800.0	7,933.5	7,781.4	45.4	25.0	87.87	1,370.5	549.8	980.4	937.7	42.64	22.989		

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 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM H PELTIER 1 (P/A) - VESSELS - NO SURVEYS													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	
15,800.0	7,800.0	7,781.5	7,781.5	138.4	13.6	-90.00	8,628.6	-32.5	965.1	894.4	70.75	13.641	
15,900.0	7,800.0	7,781.5	7,781.5	140.1	13.6	-90.00	8,628.6	-32.5	872.4	796.3	76.04	11.472	
16,000.0	7,800.0	7,781.5	7,781.5	141.9	13.6	-90.00	8,628.6	-32.5	781.4	698.9	82.55	9.466	
16,100.0	7,800.0	7,781.5	7,781.5	143.6	13.6	-90.00	8,628.6	-32.5	692.9	602.3	90.64	7.645	
16,200.0	7,800.0	7,781.5	7,781.5	145.4	13.6	-90.00	8,628.6	-32.5	608.0	507.3	100.75	6.035	
16,300.0	7,800.0	7,781.5	7,781.5	147.1	13.6	-90.00	8,628.6	-32.5	528.5	415.1	113.35	4.662	
16,400.0	7,800.0	7,781.5	7,781.5	148.9	13.6	-90.00	8,628.6	-32.5	457.0	328.4	128.60	3.554	
16,500.0	7,800.0	7,781.5	7,781.5	150.6	13.6	-90.00	8,628.6	-32.5	398.0	252.4	145.55	2.734	
16,600.0	7,800.0	7,781.5	7,781.5	152.4	13.6	-90.00	8,628.6	-32.5	357.7	197.0	160.65	2.226	
16,700.0	7,800.0	7,781.5	7,781.5	154.1	13.6	-90.00	8,628.6	-32.5	342.8	175.1	167.68	2.044	
16,702.2	7,800.0	7,781.5	7,781.5	154.1	13.6	-90.00	8,628.6	-32.5	342.8	175.1	167.70	2.044	CC, ES, SF
16,800.0	7,800.0	7,781.5	7,781.5	155.9	13.6	-90.00	8,628.6	-32.5	356.4	193.7	162.74	2.190	
16,900.0	7,800.0	7,781.5	7,781.5	157.6	13.6	-90.00	8,628.6	-32.5	395.7	246.6	149.14	2.653	
17,000.0	7,800.0	7,781.5	7,781.5	159.4	13.6	-90.00	8,628.6	-32.5	454.1	321.0	133.08	3.412	
17,100.0	7,800.0	7,781.5	7,781.5	161.1	13.6	-90.00	8,628.6	-32.5	525.1	406.8	118.33	4.438	
17,112.8	7,800.0	7,781.5	7,781.5	161.3	13.6	-90.00	8,628.6	-32.5	534.9	418.3	116.61	4.587	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 1A-20H - ENCANA - SURVEYS													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		
16,100.0	7,800.0	8,534.5	7,704.8	143.6	23.3	-72.27	8,981.8	110.2	981.5	916.5	65.00	15.100		
16,200.0	7,800.0	8,506.4	7,706.0	145.4	22.8	-70.05	8,987.3	137.8	883.8	819.9	63.94	13.824		
16,300.0	7,800.0	8,478.1	7,707.2	147.1	22.2	-67.16	8,992.5	165.6	786.1	723.5	62.63	12.551		
16,400.0	7,800.0	8,451.3	7,708.3	148.9	21.7	-63.35	8,997.2	191.9	688.2	626.9	61.27	11.232		
16,500.0	7,800.0	8,427.3	7,709.2	150.6	21.3	-58.56	9,001.1	215.5	590.2	530.1	60.07	9.825		
16,600.0	7,800.0	8,405.8	7,709.8	152.4	20.9	-52.51	9,004.5	236.8	492.2	433.2	59.01	8.342		
16,700.0	7,800.0	8,387.1	7,710.3	154.1	20.5	-45.22	9,007.2	255.3	394.4	336.2	58.27	6.769		
16,800.0	7,800.0	8,370.1	7,710.6	155.9	20.2	-36.24	9,009.6	272.1	297.2	239.5	57.64	5.155		
16,900.0	7,800.0	8,354.2	7,710.7	157.6	20.0	-25.26	9,011.8	287.8	201.3	144.5	56.79	3.544		
17,000.0	7,800.0	8,339.3	7,710.8	159.4	19.7	-12.69	9,013.8	302.6	110.8	56.8	54.00	2.051		
17,094.2	7,800.0	8,326.1	7,710.7	161.0	19.5	-0.35	9,015.4	315.7	59.8	21.4	38.34	1.559 CC, ES, SF		
17,100.0	7,800.0	8,325.3	7,710.7	161.1	19.5	0.41	9,015.5	316.5	60.1	22.0	38.02	1.579		
17,112.8	7,800.0	8,323.6	7,710.7	161.3	19.4	2.06	9,015.8	318.3	62.6	23.8	38.76	1.614		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4F-29H-P168
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Reference Site:</b>	S29-T1N-R68W (Pratt/Waste Connections)	<b>MD Reference:</b>	28.5' KB @ 5204.5ft (Patt 272)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 4F-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #3	<b>Offset TVD Reference:</b>	Offset Datum

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

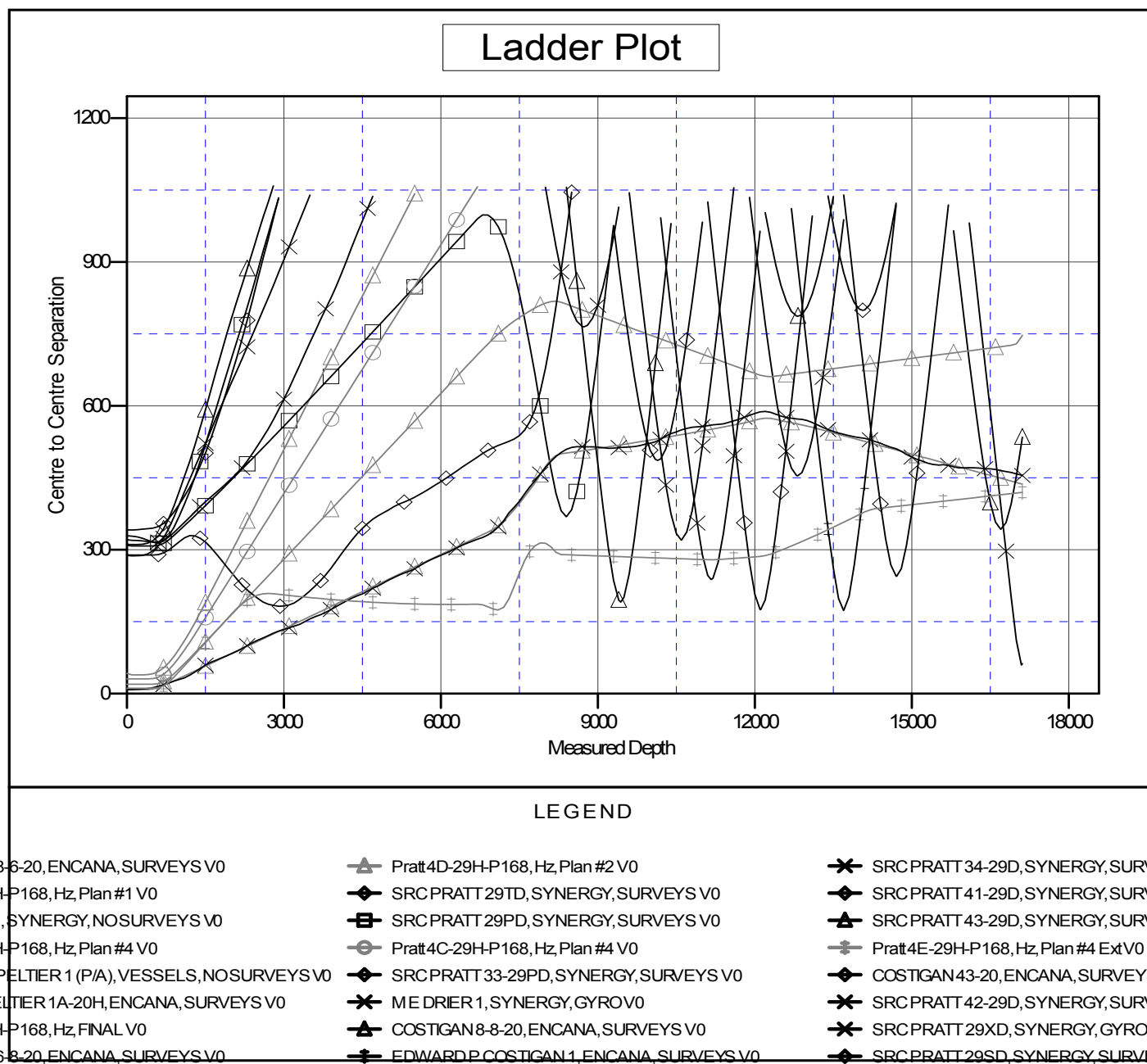
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Pratt 4F-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