

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

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

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

Well	Pratt 4E-29H-P168					
Well Position	+N/-S	0.0 ft	Northing:	1,249,256.43 ft	Latitude:	40.016600
	+E/-W	0.0 ft	Easting:	3,133,766.01 ft	Longitude:	-105.022430
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,176.0 ft

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

<b>Design</b>	PLAN #5			
<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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
798.0	11.96	158.36	793.6	-57.8	22.9	2.00	2.00	0.00	158.36	
3,468.7	11.96	158.36	3,406.4	-572.2	227.1	0.00	0.00	0.00	0.00	
4,066.6	0.00	0.00	4,000.0	-630.0	250.0	2.00	-2.00	0.00	180.00	
7,386.4	0.00	0.00	7,319.8	-630.0	250.0	0.00	0.00	0.00	0.00	
8,511.4	90.00	359.38	8,036.0	86.2	242.2	8.00	8.00	0.00	359.38	
11,485.5	90.00	359.38	8,036.0	3,060.0	210.0	0.00	0.00	0.00	0.00	Interp @ 8036.0 (Prat
11,585.5	90.00	359.38	8,036.0	3,160.0	208.9	0.00	0.00	0.00	0.00	
12,323.4	90.00	352.00	8,036.0	3,895.3	153.5	1.00	0.00	-1.00	-90.00	
12,395.0	90.00	352.72	8,036.0	3,966.3	144.0	1.00	0.00	1.00	90.00	
13,781.5	90.00	352.72	8,036.0	5,341.7	-31.8	0.00	0.00	0.00	0.00	
14,609.9	90.00	1.00	8,036.0	6,168.1	-77.2	1.00	0.00	1.00	90.00	
17,909.9	90.00	1.00	8,036.0	9,467.6	-19.6	0.00	0.00	0.00	0.00	Pratt 4E-29H-P168 PI

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<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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

## 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	Start Build 2.00
300.0	2.00	158.36	300.0	-1.6	0.6	-1.6	2.00	2.00	
400.0	4.00	158.36	399.8	-6.5	2.6	-6.5	2.00	2.00	
500.0	6.00	158.36	499.5	-14.6	5.8	-14.6	2.00	2.00	
600.0	8.00	158.36	598.7	-25.9	10.3	-25.9	2.00	2.00	
700.0	10.00	158.36	697.5	-40.5	16.1	-40.5	2.00	2.00	
793.2	11.86	158.36	789.0	-56.9	22.6	-56.9	2.00	2.00	Fox Hills - BASE
798.0	11.96	158.36	793.6	-57.8	22.9	-57.8	2.00	2.00	Start 2670.7 hold at 798.0 MD
800.0	11.96	158.36	795.6	-58.2	23.1	-58.2	0.00	0.00	
900.0	11.96	158.36	893.5	-77.4	30.7	-77.4	0.00	0.00	
1,000.0	11.96	158.36	991.3	-96.7	38.4	-96.7	0.00	0.00	
1,100.0	11.96	158.36	1,089.1	-116.0	46.0	-116.0	0.00	0.00	
1,200.0	11.96	158.36	1,186.9	-135.2	53.7	-135.2	0.00	0.00	
1,300.0	11.96	158.36	1,284.8	-154.5	61.3	-154.5	0.00	0.00	
1,400.0	11.96	158.36	1,382.6	-173.8	69.0	-173.8	0.00	0.00	
1,500.0	11.96	158.36	1,480.4	-193.0	76.6	-193.0	0.00	0.00	
1,600.0	11.96	158.36	1,578.3	-212.3	84.2	-212.3	0.00	0.00	
1,700.0	11.96	158.36	1,676.1	-231.5	91.9	-231.5	0.00	0.00	
1,800.0	11.96	158.36	1,773.9	-250.8	99.5	-250.8	0.00	0.00	
1,900.0	11.96	158.36	1,871.7	-270.1	107.2	-270.1	0.00	0.00	
2,000.0	11.96	158.36	1,969.6	-289.3	114.8	-289.3	0.00	0.00	
2,100.0	11.96	158.36	2,067.4	-308.6	122.5	-308.6	0.00	0.00	
2,200.0	11.96	158.36	2,165.2	-327.8	130.1	-327.8	0.00	0.00	
2,300.0	11.96	158.36	2,263.1	-347.1	137.7	-347.1	0.00	0.00	
2,400.0	11.96	158.36	2,360.9	-366.4	145.4	-366.4	0.00	0.00	
2,500.0	11.96	158.36	2,458.7	-385.6	153.0	-385.6	0.00	0.00	
2,600.0	11.96	158.36	2,556.6	-404.9	160.7	-404.9	0.00	0.00	
2,700.0	11.96	158.36	2,654.4	-424.1	168.3	-424.1	0.00	0.00	
2,800.0	11.96	158.36	2,752.2	-443.4	176.0	-443.4	0.00	0.00	
2,900.0	11.96	158.36	2,850.0	-462.7	183.6	-462.7	0.00	0.00	
3,000.0	11.96	158.36	2,947.9	-481.9	191.2	-481.9	0.00	0.00	
3,100.0	11.96	158.36	3,045.7	-501.2	198.9	-501.2	0.00	0.00	
3,200.0	11.96	158.36	3,143.5	-520.5	206.5	-520.5	0.00	0.00	
3,300.0	11.96	158.36	3,241.4	-539.7	214.2	-539.7	0.00	0.00	
3,400.0	11.96	158.36	3,339.2	-559.0	221.8	-559.0	0.00	0.00	
3,468.7	11.96	158.36	3,406.4	-572.2	227.1	-572.2	0.00	0.00	Start Drop -2.00
3,500.0	11.33	158.36	3,437.1	-578.1	229.4	-578.1	2.00	-2.00	
3,600.0	9.33	158.36	3,535.4	-594.8	236.0	-594.8	2.00	-2.00	
3,700.0	7.33	158.36	3,634.4	-608.2	241.4	-608.2	2.00	-2.00	
3,800.0	5.33	158.36	3,733.7	-618.5	245.4	-618.5	2.00	-2.00	
3,900.0	3.33	158.36	3,833.5	-625.5	248.2	-625.5	2.00	-2.00	
4,000.0	1.33	158.36	3,933.4	-629.3	249.7	-629.3	2.00	-2.00	
4,066.6	0.00	0.00	4,000.0	-630.0	250.0	-630.0	2.00	-2.00	Start 3319.8 hold at 4066.6 MD
4,100.0	0.00	0.00	4,033.4	-630.0	250.0	-630.0	0.00	0.00	
4,200.0	0.00	0.00	4,133.4	-630.0	250.0	-630.0	0.00	0.00	
4,300.0	0.00	0.00	4,233.4	-630.0	250.0	-630.0	0.00	0.00	
4,400.0	0.00	0.00	4,333.4	-630.0	250.0	-630.0	0.00	0.00	
4,500.0	0.00	0.00	4,433.4	-630.0	250.0	-630.0	0.00	0.00	
4,600.0	0.00	0.00	4,533.4	-630.0	250.0	-630.0	0.00	0.00	
4,700.0	0.00	0.00	4,633.4	-630.0	250.0	-630.0	0.00	0.00	

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<b>Well:</b>	Pratt 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

## 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
4,800.0	0.00	0.00	4,733.4	-630.0	250.0	-630.0	0.00	0.00	
4,832.6	0.00	0.00	4,766.0	-630.0	250.0	-630.0	0.00	0.00	Sussex
4,900.0	0.00	0.00	4,833.4	-630.0	250.0	-630.0	0.00	0.00	
5,000.0	0.00	0.00	4,933.4	-630.0	250.0	-630.0	0.00	0.00	
5,100.0	0.00	0.00	5,033.4	-630.0	250.0	-630.0	0.00	0.00	
5,145.6	0.00	0.00	5,079.0	-630.0	250.0	-630.0	0.00	0.00	Sussex Marker
5,200.0	0.00	0.00	5,133.4	-630.0	250.0	-630.0	0.00	0.00	
5,300.0	0.00	0.00	5,233.4	-630.0	250.0	-630.0	0.00	0.00	
5,400.0	0.00	0.00	5,333.4	-630.0	250.0	-630.0	0.00	0.00	
5,500.0	0.00	0.00	5,433.4	-630.0	250.0	-630.0	0.00	0.00	
5,509.6	0.00	0.00	5,443.0	-630.0	250.0	-630.0	0.00	0.00	Shannon
5,600.0	0.00	0.00	5,533.4	-630.0	250.0	-630.0	0.00	0.00	
5,700.0	0.00	0.00	5,633.4	-630.0	250.0	-630.0	0.00	0.00	
5,800.0	0.00	0.00	5,733.4	-630.0	250.0	-630.0	0.00	0.00	
5,900.0	0.00	0.00	5,833.4	-630.0	250.0	-630.0	0.00	0.00	
6,000.0	0.00	0.00	5,933.4	-630.0	250.0	-630.0	0.00	0.00	
6,100.0	0.00	0.00	6,033.4	-630.0	250.0	-630.0	0.00	0.00	
6,200.0	0.00	0.00	6,133.4	-630.0	250.0	-630.0	0.00	0.00	
6,300.0	0.00	0.00	6,233.4	-630.0	250.0	-630.0	0.00	0.00	
6,400.0	0.00	0.00	6,333.4	-630.0	250.0	-630.0	0.00	0.00	
6,500.0	0.00	0.00	6,433.4	-630.0	250.0	-630.0	0.00	0.00	
6,566.6	0.00	0.00	6,500.0	-630.0	250.0	-630.0	0.00	0.00	Teepee Buttes (*if present)
6,600.0	0.00	0.00	6,533.4	-630.0	250.0	-630.0	0.00	0.00	
6,700.0	0.00	0.00	6,633.4	-630.0	250.0	-630.0	0.00	0.00	
6,800.0	0.00	0.00	6,733.4	-630.0	250.0	-630.0	0.00	0.00	
6,900.0	0.00	0.00	6,833.4	-630.0	250.0	-630.0	0.00	0.00	
7,000.0	0.00	0.00	6,933.4	-630.0	250.0	-630.0	0.00	0.00	
7,100.0	0.00	0.00	7,033.4	-630.0	250.0	-630.0	0.00	0.00	
7,200.0	0.00	0.00	7,133.4	-630.0	250.0	-630.0	0.00	0.00	
7,300.0	0.00	0.00	7,233.4	-630.0	250.0	-630.0	0.00	0.00	
7,386.4	0.00	0.00	7,319.8	-630.0	250.0	-630.0	0.00	0.00	Start Build 8.00
7,400.0	1.08	359.38	7,333.4	-629.9	250.0	-629.9	8.00	8.00	
7,500.0	9.08	359.38	7,432.9	-621.0	249.9	-621.0	8.00	8.00	
7,600.0	17.08	359.38	7,530.2	-598.4	249.7	-598.4	8.00	8.00	
7,617.6	18.50	359.38	7,547.0	-593.0	249.6	-593.0	8.00	8.00	Sharon Springs
7,652.7	21.30	359.38	7,580.0	-581.1	249.5	-581.1	8.00	8.00	Niobrara
7,700.0	25.08	359.38	7,623.4	-562.5	249.3	-562.5	8.00	8.00	
7,800.0	33.08	359.38	7,710.8	-513.9	248.7	-513.9	8.00	8.00	
7,881.0	39.57	359.38	7,776.0	-465.9	248.2	-465.9	8.00	8.00	B Chalk
7,896.7	40.82	359.38	7,788.0	-455.8	248.1	-455.8	8.00	8.00	B Marl
7,900.0	41.08	359.38	7,790.5	-453.6	248.1	-453.6	8.00	8.00	
8,000.0	49.08	359.38	7,861.0	-382.9	247.3	-382.9	8.00	8.00	
8,036.2	51.98	359.38	7,884.0	-355.0	247.0	-355.0	8.00	8.00	C Chalk
8,066.2	54.38	359.38	7,902.0	-330.9	246.8	-330.9	8.00	8.00	C Marl
8,100.0	57.08	359.38	7,921.0	-303.0	246.5	-303.0	8.00	8.00	
8,200.0	65.08	359.38	7,969.3	-215.5	245.5	-215.5	8.00	8.00	
8,300.0	73.08	359.38	8,005.0	-122.2	244.5	-122.2	8.00	8.00	
8,306.9	73.64	359.38	8,007.0	-115.6	244.4	-115.6	8.00	8.00	Ft. Hayes
8,391.6	80.41	359.38	8,026.0	-33.1	243.5	-33.1	8.00	8.00	Codell
8,400.0	81.08	359.38	8,027.3	-24.8	243.4	-24.8	8.00	8.00	
8,500.0	89.08	359.38	8,035.9	74.7	242.4	74.7	8.00	8.00	
8,511.4	90.00	359.38	8,036.0	86.2	242.2	86.2	8.00	8.00	Start 2974.0 hold at 8511.4 MD

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<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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,600.0	90.00	359.38	8,036.0	174.7	241.3	174.7	0.00	0.00	
8,700.0	90.00	359.38	8,036.0	274.7	240.2	274.7	0.00	0.00	
8,800.0	90.00	359.38	8,036.0	374.7	239.1	374.7	0.00	0.00	
8,900.0	90.00	359.38	8,036.0	474.7	238.0	474.7	0.00	0.00	
9,000.0	90.00	359.38	8,036.0	574.7	236.9	574.7	0.00	0.00	
9,100.0	90.00	359.38	8,036.0	674.7	235.9	674.7	0.00	0.00	
9,200.0	90.00	359.38	8,036.0	774.7	234.8	774.7	0.00	0.00	
9,300.0	90.00	359.38	8,036.0	874.7	233.7	874.7	0.00	0.00	
9,400.0	90.00	359.38	8,036.0	974.7	232.6	974.7	0.00	0.00	
9,500.0	90.00	359.38	8,036.0	1,074.7	231.5	1,074.7	0.00	0.00	
9,600.0	90.00	359.38	8,036.0	1,174.7	230.4	1,174.7	0.00	0.00	
9,700.0	90.00	359.38	8,036.0	1,274.6	229.4	1,274.6	0.00	0.00	
9,800.0	90.00	359.38	8,036.0	1,374.6	228.3	1,374.6	0.00	0.00	
9,900.0	90.00	359.38	8,036.0	1,474.6	227.2	1,474.6	0.00	0.00	
10,000.0	90.00	359.38	8,036.0	1,574.6	226.1	1,574.6	0.00	0.00	
10,100.0	90.00	359.38	8,036.0	1,674.6	225.0	1,674.6	0.00	0.00	
10,200.0	90.00	359.38	8,036.0	1,774.6	223.9	1,774.6	0.00	0.00	
10,300.0	90.00	359.38	8,036.0	1,874.6	222.8	1,874.6	0.00	0.00	
10,400.0	90.00	359.38	8,036.0	1,974.6	221.8	1,974.6	0.00	0.00	
10,500.0	90.00	359.38	8,036.0	2,074.6	220.7	2,074.6	0.00	0.00	
10,600.0	90.00	359.38	8,036.0	2,174.6	219.6	2,174.6	0.00	0.00	
10,700.0	90.00	359.38	8,036.0	2,274.6	218.5	2,274.6	0.00	0.00	
10,800.0	90.00	359.38	8,036.0	2,374.6	217.4	2,374.6	0.00	0.00	
10,900.0	90.00	359.38	8,036.0	2,474.6	216.3	2,474.6	0.00	0.00	
11,000.0	90.00	359.38	8,036.0	2,574.6	215.3	2,574.6	0.00	0.00	
11,100.0	90.00	359.38	8,036.0	2,674.6	214.2	2,674.6	0.00	0.00	
11,200.0	90.00	359.38	8,036.0	2,774.6	213.1	2,774.6	0.00	0.00	
11,300.0	90.00	359.38	8,036.0	2,874.6	212.0	2,874.6	0.00	0.00	
11,400.0	90.00	359.38	8,036.0	2,974.5	210.9	2,974.5	0.00	0.00	
11,485.5	90.00	359.38	8,036.0	3,060.0	210.0	3,060.0	0.00	0.00	Start 100.0 hold at 11485.5 MD
11,500.0	90.00	359.38	8,036.0	3,074.5	209.8	3,074.5	0.00	0.00	
11,585.5	90.00	359.38	8,036.0	3,160.0	208.9	3,160.0	0.00	0.00	Start DLS 1.00 TFO -90.00
11,600.0	90.00	359.23	8,036.0	3,174.5	208.7	3,174.5	1.00	0.00	
11,700.0	90.00	358.23	8,036.0	3,274.5	206.5	3,274.5	1.00	0.00	
11,800.0	90.00	357.23	8,036.0	3,374.4	202.6	3,374.4	1.00	0.00	
11,900.0	90.00	356.23	8,036.0	3,474.3	196.9	3,474.3	1.00	0.00	
12,000.0	90.00	355.23	8,036.0	3,574.0	189.4	3,574.0	1.00	0.00	
12,100.0	90.00	354.23	8,036.0	3,673.6	180.3	3,673.6	1.00	0.00	
12,200.0	90.00	353.23	8,036.0	3,773.0	169.3	3,773.0	1.00	0.00	
12,300.0	90.00	352.23	8,036.0	3,872.2	156.7	3,872.2	1.00	0.00	
12,323.4	90.00	352.00	8,036.0	3,895.3	153.5	3,895.3	1.00	0.00	Start DLS 1.00 TFO 90.00
12,395.0	90.00	352.72	8,036.0	3,966.3	144.0	3,966.3	1.00	0.00	Start 1386.6 hold at 12395.0 MD
12,400.0	90.00	352.72	8,036.0	3,971.3	143.3	3,971.3	0.00	0.00	
12,500.0	90.00	352.72	8,036.0	4,070.5	130.7	4,070.5	0.00	0.00	
12,600.0	90.00	352.72	8,036.0	4,169.6	118.0	4,169.6	0.00	0.00	
12,700.0	90.00	352.72	8,036.0	4,268.8	105.3	4,268.8	0.00	0.00	
12,800.0	90.00	352.72	8,036.0	4,368.0	92.6	4,368.0	0.00	0.00	
12,900.0	90.00	352.72	8,036.0	4,467.2	79.9	4,467.2	0.00	0.00	
13,000.0	90.00	352.72	8,036.0	4,566.4	67.3	4,566.4	0.00	0.00	
13,100.0	90.00	352.72	8,036.0	4,665.6	54.6	4,665.6	0.00	0.00	
13,200.0	90.00	352.72	8,036.0	4,764.8	41.9	4,764.8	0.00	0.00	
13,300.0	90.00	352.72	8,036.0	4,864.0	29.2	4,864.0	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,400.0	90.00	352.72	8,036.0	4,963.2	16.5	4,963.2	0.00	0.00	
13,500.0	90.00	352.72	8,036.0	5,062.4	3.9	5,062.4	0.00	0.00	
13,600.0	90.00	352.72	8,036.0	5,161.6	-8.8	5,161.6	0.00	0.00	
13,700.0	90.00	352.72	8,036.0	5,260.8	-21.5	5,260.8	0.00	0.00	
13,781.5	90.00	352.72	8,036.0	5,341.7	-31.8	5,341.7	0.00	0.00	Start DLS 1.00 TFO 90.00
13,800.0	90.00	352.90	8,036.0	5,360.0	-34.1	5,360.0	1.00	0.00	
13,900.0	90.00	353.90	8,036.0	5,459.3	-45.6	5,459.3	1.00	0.00	
14,000.0	90.00	354.90	8,036.0	5,558.8	-55.4	5,558.8	1.00	0.00	
14,100.0	90.00	355.90	8,036.0	5,658.5	-63.4	5,658.5	1.00	0.00	
14,200.0	90.00	356.90	8,036.0	5,758.3	-69.7	5,758.3	1.00	0.00	
14,300.0	90.00	357.90	8,036.0	5,858.2	-74.2	5,858.2	1.00	0.00	
14,400.0	90.00	358.90	8,036.0	5,958.2	-77.0	5,958.2	1.00	0.00	
14,500.0	90.00	359.90	8,036.0	6,058.2	-78.1	6,058.2	1.00	0.00	
14,600.0	90.00	0.90	8,036.0	6,158.2	-77.4	6,158.2	1.00	0.00	
14,609.9	90.00	1.00	8,036.0	6,168.1	-77.2	6,168.1	1.00	0.00	Start 3300.0 hold at 14609.9 MD
14,700.0	90.00	1.00	8,036.0	6,258.1	-75.6	6,258.1	0.00	0.00	
14,800.0	90.00	1.00	8,036.0	6,358.1	-73.9	6,358.1	0.00	0.00	
14,900.0	90.00	1.00	8,036.0	6,458.1	-72.1	6,458.1	0.00	0.00	
15,000.0	90.00	1.00	8,036.0	6,558.1	-70.4	6,558.1	0.00	0.00	
15,100.0	90.00	1.00	8,036.0	6,658.1	-68.6	6,658.1	0.00	0.00	
15,200.0	90.00	1.00	8,036.0	6,758.1	-66.9	6,758.1	0.00	0.00	
15,300.0	90.00	1.00	8,036.0	6,858.0	-65.1	6,858.0	0.00	0.00	
15,400.0	90.00	1.00	8,036.0	6,958.0	-63.4	6,958.0	0.00	0.00	
15,500.0	90.00	1.00	8,036.0	7,058.0	-61.7	7,058.0	0.00	0.00	
15,600.0	90.00	1.00	8,036.0	7,158.0	-59.9	7,158.0	0.00	0.00	
15,700.0	90.00	1.00	8,036.0	7,258.0	-58.2	7,258.0	0.00	0.00	
15,800.0	90.00	1.00	8,036.0	7,358.0	-56.4	7,358.0	0.00	0.00	
15,900.0	90.00	1.00	8,036.0	7,458.0	-54.7	7,458.0	0.00	0.00	
16,000.0	90.00	1.00	8,036.0	7,557.9	-52.9	7,557.9	0.00	0.00	
16,100.0	90.00	1.00	8,036.0	7,657.9	-51.2	7,657.9	0.00	0.00	
16,200.0	90.00	1.00	8,036.0	7,757.9	-49.4	7,757.9	0.00	0.00	
16,300.0	90.00	1.00	8,036.0	7,857.9	-47.7	7,857.9	0.00	0.00	
16,400.0	90.00	1.00	8,036.0	7,957.9	-46.0	7,957.9	0.00	0.00	
16,500.0	90.00	1.00	8,036.0	8,057.9	-44.2	8,057.9	0.00	0.00	
16,600.0	90.00	1.00	8,036.0	8,157.8	-42.5	8,157.8	0.00	0.00	
16,700.0	90.00	1.00	8,036.0	8,257.8	-40.7	8,257.8	0.00	0.00	
16,800.0	90.00	1.00	8,036.0	8,357.8	-39.0	8,357.8	0.00	0.00	
16,900.0	90.00	1.00	8,036.0	8,457.8	-37.2	8,457.8	0.00	0.00	
17,000.0	90.00	1.00	8,036.0	8,557.8	-35.5	8,557.8	0.00	0.00	
17,100.0	90.00	1.00	8,036.0	8,657.8	-33.7	8,657.8	0.00	0.00	
17,200.0	90.00	1.00	8,036.0	8,757.8	-32.0	8,757.8	0.00	0.00	
17,300.0	90.00	1.00	8,036.0	8,857.7	-30.2	8,857.7	0.00	0.00	
17,400.0	90.00	1.00	8,036.0	8,957.7	-28.5	8,957.7	0.00	0.00	
17,500.0	90.00	1.00	8,036.0	9,057.7	-26.8	9,057.7	0.00	0.00	
17,600.0	90.00	1.00	8,036.0	9,157.7	-25.0	9,157.7	0.00	0.00	
17,700.0	90.00	1.00	8,036.0	9,257.7	-23.3	9,257.7	0.00	0.00	
17,800.0	90.00	1.00	8,036.0	9,357.7	-21.5	9,357.7	0.00	0.00	
17,900.0	90.00	1.00	8,036.0	9,457.6	-19.8	9,457.6	0.00	0.00	
17,909.9	90.00	1.00	8,036.0	9,467.6	-19.6	9,467.6	0.00	0.00	TD at 17909.9

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Interp @ 8036.0 (Pratt 4 - plan hits target center - Point	0.00	0.00	8,036.0	3,060.0	210.0	1,252,317.52	3,133,959.52	40.025000	-105.021680
Pratt 4E-29H-P168 TGT - plan misses target center by 171.1ft at 10461.0ft MD (8036.0 TVD, 2035.6 N, 221.1 E) - Point	0.00	0.00	8,036.0	2,033.8	50.0	1,251,290.44	3,133,805.05	40.022183	-105.022251
Pratt 4E-29H-P168 PBH - plan hits target center - Point	0.00	0.00	8,036.0	9,467.6	-19.6	1,258,723.75	3,133,695.42	40.042590	-105.022500
Pratt 4E-29H-P168 PBH - plan misses target center by 12.6ft at 16868.2ft MD (8036.0 TVD, 8426.0 N, -37.8 E) - Point	0.00	0.00	8,036.0	8,425.7	-25.2	1,257,681.91	3,133,695.43	40.039730	-105.022520
Pratt 4E-29H-P168 PBH - plan hits target center - Point	0.00	0.00	8,036.0	9,467.6	-19.6	1,258,723.75	3,133,695.42	40.042590	-105.022500

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
793.2	789.0	Fox Hills - BASE				
4,832.6	4,766.0	Sussex				
5,145.6	5,079.0	Sussex Marker				
5,509.6	5,443.0	Shannon				
6,566.6	6,500.0	Teepee Buttes (*if present)				
7,617.6	7,547.0	Sharon Springs				
7,652.7	7,580.0	Niobrara				
7,881.0	7,776.0	B Chalk				
7,896.7	7,788.0	B Marl				
8,036.2	7,884.0	C Chalk				
8,066.2	7,902.0	C Marl				
8,306.9	8,007.0	Ft. Hayes				
8,391.6	8,026.0	Codell				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-29H-P168	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	PLAN #5		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	Start Build 2.00
798.0	793.6	-57.8	22.9	Start 2670.7 hold at 798.0 MD
3,468.7	3,406.4	-572.2	227.1	Start Drop -2.00
4,066.6	4,000.0	-630.0	250.0	Start 3319.8 hold at 4066.6 MD
7,386.4	7,319.8	-630.0	250.0	Start Build 8.00
8,511.4	8,036.0	86.2	242.2	Start 2974.0 hold at 8511.4 MD
11,485.5	8,036.0	3,060.0	210.0	Start 100.0 hold at 11485.5 MD
11,585.5	8,036.0	3,160.0	208.9	Start DLS 1.00 TFO -90.00
12,323.4	8,036.0	3,895.3	153.5	Start DLS 1.00 TFO 90.00
12,395.0	8,036.0	3,966.3	144.0	Start 1386.6 hold at 12395.0 MD
13,781.5	8,036.0	5,341.7	-31.8	Start DLS 1.00 TFO 90.00
14,609.9	8,036.0	6,168.1	-77.2	Start 3300.0 hold at 14609.9 MD
17,909.9	8,036.0	9,467.6	-19.6	TD at 17909.9



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

**DJ Wattenberg**

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

**Pratt 4E-29H-P168**

**Hz**

**PLAN #5**

## **Anticollision Report**

**18 September, 2015**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #5		
<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 1,500.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>		<b>Date</b>	9/18/2015		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	17,885.3	PLAN #5 (Hz)	MWD+HDGM	OWSG MWD + HDGM	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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)						
COSTIGAN 0-6-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 0-8-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 13-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 14-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 23-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 24-20 - ENCANA - SURVEYS						Out of range
COSTIGAN 33-20 - ENCANA - SURVEYS	15,041.1	8,241.1	780.5	641.2	5.602	CC, ES
COSTIGAN 33-20 - ENCANA - SURVEYS	15,100.0	8,240.3	782.7	641.4	5.539	SF
COSTIGAN 34-20 - ENCANA - SURVEYS	13,774.4	7,705.0	1,024.6	923.2	10.108	CC, ES
COSTIGAN 34-20 - ENCANA - SURVEYS	13,800.0	7,705.0	1,024.8	923.4	10.104	SF
COSTIGAN 43-20 - ENCANA - SURVEYS	15,082.6	8,187.2	608.7	468.7	4.346	CC, ES
COSTIGAN 43-20 - ENCANA - SURVEYS	15,100.0	8,187.3	609.0	468.7	4.341	SF
COSTIGAN 4-6-20 (AL) - ENCANA - NEVER DRILLED						Out of range
COSTIGAN 6-8-20 - ENCANA - SURVEYS	13,221.5	8,149.2	227.6	120.3	2.122	CC, ES, SF
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,391.2	8,143.1	1,163.2	1,041.0	9.518	CC
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,400.0	8,143.1	1,163.3	1,040.9	9.505	ES
COSTIGAN 8-6-20 - ENCANA - SURVEYS	14,500.0	8,143.9	1,167.3	1,043.3	9.413	SF
COSTIGAN 8-8-20 - ENCANA - SURVEYS	13,043.6	8,245.3	1,000.1	893.1	9.347	CC, ES
COSTIGAN 8-8-20 - ENCANA - SURVEYS	13,100.0	8,245.3	1,001.6	894.1	9.313	SF
COSTIGAN E UNIT 1 - ENCANA - NO SURVEYS						Out of range
COSTIGAN H UNIT 1 (AL) - VESSELS - NEVER DRILLE						Out of range
EDWARD P COSTIGAN 1 - ENCANA - SURVEYS	14,051.1	8,045.3	162.3	47.0	1.407	Level 3, CC, ES, SF
M E DRIER 1 - SYNERGY - GYRO	11,492.0	8,039.8	151.2	75.7	2.003	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	8,733.4	8,008.5	195.0	150.2	4.354	CC, ES, SF
PRATT 4-2-29 - ENCANA - SURVEYS						Out of range
Pratt 4B-29H-P168 - Hz - Plan #2	200.0	184.5	28.0	27.2	35.637	CC, ES
Pratt 4B-29H-P168 - Hz - Plan #2	17,200.0	16,944.6	1,070.8	772.2	3.587	SF
Pratt 4C-29H-P168 - Hz - Plan #4	200.0	200.0	19.6	18.8	24.946	CC, ES
Pratt 4C-29H-P168 - Hz - Plan #4	17,909.9	17,902.0	750.4	421.9	2.284	SF
Pratt 4D-29H-P168 - Hz - PLAN #4	200.0	200.0	8.4	7.4	8.634	CC, ES
Pratt 4D-29H-P168 - Hz - PLAN #4	17,300.0	16,516.6	415.5	159.0	1.620	SF
Pratt 4F-29H-P168 - Hz - Plan #3	354.0	354.0	10.4	8.8	6.563	CC, ES
Pratt 4F-29H-P168 - Hz - Plan #3	17,482.6	17,112.8	426.0	155.5	1.575	SF
Pratt 4G-29H-P168 - Hz - FINAL	0.0	0.0	19.6			
Pratt 4G-29H-P168 - Hz - FINAL	417.4	417.1	20.0	18.1	10.395	ES
Pratt 4G-29H-P168 - Hz - FINAL	17,801.7	17,685.0	776.5	453.1	2.401	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 29HD (AL) - SYNERGY - NEVER DRILLED						Out of range
SRC PRATT 29LD (AL) - SYNERGY - NEVER DRILLED						Out of range
SRC PRATT 29PD - SYNERGY - SURVEYS	319.3	320.6	325.0	323.5	222.082	CC, ES
SRC PRATT 29PD - SYNERGY - SURVEYS	2,200.0	2,011.8	903.7	889.8	65.030	SF
SRC PRATT 29QD (AL) - SYNERGY - NEVER DRILLED						Out of range

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S29-T1N-R68W (Pratt/Waste Connections)						
SRC PRATT 29SD - SYNERGY - SURVEYS	10,482.8	8,179.5	360.9	291.7	5.217	CC, ES, SF
SRC PRATT 29TD - SYNERGY - SURVEYS	200.7	188.3	292.1	291.3	356.458	CC, ES
SRC PRATT 29TD - SYNERGY - SURVEYS	7,870.2	7,863.4	356.8	309.3	7.523	SF
SRC PRATT 29XD - SYNERGY - GYRO	100.0	73.7	290.5	290.2	1,124.060	CC
SRC PRATT 29XD - SYNERGY - GYRO	200.0	174.2	290.7	290.0	367.149	ES
SRC PRATT 29XD - SYNERGY - GYRO	9,400.0	8,139.7	976.5	922.4	18.032	SF
SRC PRATT 31-29D - SYNERGY - SURVEYS	12,568.6	8,250.4	939.2	837.2	9.207	CC
SRC PRATT 31-29D - SYNERGY - SURVEYS	12,600.0	8,250.4	939.8	837.2	9.162	ES
SRC PRATT 31-29D - SYNERGY - SURVEYS	12,700.0	8,250.4	948.4	844.6	9.142	SF
SRC PRATT 32-29D - SYNERGY - SURVEYS	11,096.6	8,191.9	988.3	917.4	13.924	CC
SRC PRATT 32-29D - SYNERGY - SURVEYS	11,100.0	8,192.0	988.3	917.3	13.919	ES
SRC PRATT 32-29D - SYNERGY - SURVEYS	11,200.0	8,195.6	993.7	922.1	13.870	SF
SRC PRATT 33-29PD - SYNERGY - SURVEYS	100.0	87.1	340.5	340.2	1,285.797	CC
SRC PRATT 33-29PD - SYNERGY - SURVEYS	200.0	184.5	340.9	340.1	432.081	ES
SRC PRATT 33-29PD - SYNERGY - SURVEYS	10,000.0	8,208.2	1,020.0	953.7	15.388	SF
SRC PRATT 34-29D - SYNERGY - SURVEYS	219.1	195.5	319.6	318.7	352.255	CC, ES
SRC PRATT 34-29D - SYNERGY - SURVEYS	8,487.2	8,126.5	919.2	874.5	20.586	SF
SRC PRATT 41-29D - SYNERGY - SURVEYS	12,435.8	8,200.9	288.6	191.4	2.969	CC, ES, SF
SRC PRATT 42-29D - SYNERGY - SURVEYS	10,945.5	8,125.7	428.4	358.0	6.086	CC, ES, SF
SRC PRATT 43-29D - SYNERGY - SURVEYS	100.0	88.3	312.0	311.7	1,138.811	CC
SRC PRATT 43-29D - SYNERGY - SURVEYS	9,800.0	8,168.3	339.0	275.7	5.353	ES, SF
SRC PRATT 44-29D (AL) - SYNERGY - NEVER DRILLE	200.0	176.5	284.2	283.4	357.676	CC, ES
SRC PRATT 44-29D (AL) - SYNERGY - NEVER DRILLE	7,900.0	7,712.6	545.7	500.6	12.098	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	17,071.1	8,017.5	13.0	-148.3	0.080	Level 1, CC, ES, SF
WILLIAM H PELTIER 2 - ENCANA - Plan #1						Out of range
WILLIAM H PELTIER 2 - ENCANA - SURVEYS						Out of range
WILLIAM PELTIER 11-20 (AL) - ENCANA - NEVER DRIL						Out of range
WILLIAM PELTIER 12-20 - ENCANA - SURVEYS						Out of range
WILLIAM PELTIER 1A-20H - ENCANA - SURVEYS	17,390.4	8,690.1	303.7	217.9	3.542	CC
WILLIAM PELTIER 1A-20H - ENCANA - SURVEYS	17,400.0	8,687.6	303.8	217.9	3.536	ES, SF
WILLIAM PELTIER 2-0-20 (AL) - ENCANA - NEVER DR						Out of range
WILLIAM PELTIER 22-20 (AL) - ENCANA - NEVER DRIL						Out of range
WILLIAM PELTIER 2-4-20 (AL) - ENCANA - NEVER DR						Out of range
WILLIAM PELTIER 4-2-20 (AL) - ENCANA - NEVER DR	17,071.6	8,328.0	1,480.7	1,314.8	8.922	CC, ES
WILLIAM PELTIER 4-2-20 (AL) - ENCANA - NEVER DR	17,100.0	8,328.0	1,481.0	1,315.0	8.920	SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 33-20 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 949-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
13,800.0	8,036.0	8,256.8	8,059.4	97.3	28.7	-90.78	6,612.6	-850.2	1,495.0	1,424.2	70.79	21.119		
13,900.0	8,036.0	8,255.6	8,058.2	98.9	28.7	-90.65	6,612.6	-850.1	1,406.2	1,332.8	73.46	19.143		
14,000.0	8,036.0	8,254.4	8,057.0	100.5	28.7	-90.54	6,612.7	-850.1	1,319.9	1,243.3	76.61	17.229		
14,100.0	8,036.0	8,253.2	8,055.8	102.1	28.7	-90.43	6,612.7	-850.1	1,236.7	1,156.3	80.34	15.394		
14,200.0	8,036.0	8,251.9	8,054.6	103.7	28.7	-90.32	6,612.7	-850.1	1,157.2	1,072.5	84.71	13.660		
14,300.0	8,036.0	8,250.7	8,053.3	105.3	28.7	-90.22	6,612.7	-850.1	1,082.3	992.4	89.83	12.048		
14,400.0	8,036.0	8,249.4	8,052.1	106.8	28.7	-90.12	6,612.7	-850.1	1,013.0	917.2	95.74	10.580		
14,500.0	8,036.0	8,248.1	8,050.8	108.3	28.7	-90.02	6,612.7	-850.1	950.6	848.1	102.44	9.280		
14,600.0	8,036.0	8,246.8	8,049.5	109.8	28.7	-89.93	6,612.8	-850.1	896.5	786.7	109.80	8.165		
14,700.0	8,036.0	8,245.5	8,048.2	111.3	28.7	-89.83	6,612.8	-850.1	851.8	734.3	117.50	7.249		
14,800.0	8,036.0	8,244.2	8,046.9	112.8	28.7	-89.73	6,612.8	-850.0	816.9	691.8	125.07	6.531		
14,900.0	8,036.0	8,242.9	8,045.6	114.3	28.7	-89.64	6,612.8	-850.0	793.1	661.2	131.95	6.011		
15,000.0	8,036.0	8,241.6	8,044.3	115.9	28.7	-89.54	6,612.8	-850.0	781.6	644.1	137.52	5.683		
15,041.1	8,036.0	8,241.1	8,043.7	116.5	28.7	-89.50	6,612.8	-850.0	780.5	641.2	139.32	5.602 CC, ES		
15,100.0	8,036.0	8,240.3	8,042.9	117.4	28.7	-89.45	6,612.8	-850.0	782.7	641.4	141.32	5.539 SF		
15,200.0	8,036.0	8,239.0	8,041.6	118.9	28.7	-89.35	6,612.9	-850.0	796.5	653.4	143.12	5.565		
15,300.0	8,036.0	8,237.7	8,040.3	120.4	28.7	-89.25	6,612.9	-850.0	822.3	679.3	143.00	5.750		
15,400.0	8,036.0	8,236.4	8,039.0	121.9	28.7	-89.16	6,612.9	-850.0	859.0	717.7	141.29	6.080		
15,500.0	8,036.0	8,235.1	8,037.7	123.4	28.7	-89.06	6,612.9	-850.0	905.4	767.0	138.42	6.541		
15,600.0	8,036.0	8,233.7	8,036.4	124.9	28.7	-88.97	6,612.9	-849.9	959.9	825.1	134.81	7.120		
15,700.0	8,036.0	8,232.4	8,035.1	126.4	28.7	-88.87	6,612.9	-849.9	1,021.4	890.5	130.83	7.807		
15,800.0	8,036.0	8,231.1	8,033.8	128.0	28.7	-88.77	6,613.0	-849.9	1,088.6	961.8	126.73	8.589		
15,900.0	8,036.0	8,229.8	8,032.5	129.5	28.7	-88.68	6,613.0	-849.9	1,160.5	1,037.8	122.70	9.458		
16,000.0	8,036.0	8,228.5	8,031.2	131.0	28.7	-88.58	6,613.0	-849.9	1,236.3	1,117.5	118.84	10.403		
16,100.0	8,036.0	8,227.2	8,029.9	132.5	28.7	-88.49	6,613.0	-849.9	1,315.4	1,200.2	115.20	11.418		
16,200.0	8,036.0	8,225.9	8,028.6	134.1	28.7	-88.39	6,613.0	-849.9	1,397.1	1,285.3	111.82	12.494		
16,300.0	8,036.0	8,224.6	8,027.2	135.6	28.7	-88.29	6,613.0	-849.9	1,481.1	1,372.4	108.70	13.625		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - COSTIGAN 34-20 - ENCANA - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 78-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)				
12,700.0	8,036.0	7,705.0	7,567.5	79.7	23.5	-62.32	5,221.7	-931.1	1,486.2	1,406.9	79.24	18.755		
12,800.0	8,036.0	7,705.0	7,567.5	81.2	23.5	-62.32	5,221.7	-931.1	1,415.4	1,333.8	81.62	17.342		
12,900.0	8,036.0	7,705.0	7,567.5	82.8	23.5	-62.32	5,221.7	-931.1	1,348.3	1,264.2	84.12	16.029		
13,000.0	8,036.0	7,705.0	7,567.5	84.4	23.5	-62.32	5,221.7	-931.1	1,285.6	1,198.9	86.71	14.827		
13,100.0	8,036.0	7,705.0	7,567.5	86.0	23.5	-62.32	5,221.7	-931.1	1,227.8	1,138.4	89.33	13.743		
13,200.0	8,036.0	7,705.0	7,567.5	87.6	23.5	-62.32	5,221.7	-931.1	1,175.6	1,083.7	91.93	12.788		
13,300.0	8,036.0	7,705.0	7,567.5	89.2	23.5	-62.32	5,221.7	-931.1	1,129.9	1,035.5	94.40	11.970		
13,400.0	8,036.0	7,705.0	7,567.5	90.8	23.5	-62.32	5,221.7	-931.1	1,091.5	994.9	96.64	11.294		
13,500.0	8,036.0	7,705.0	7,567.5	92.4	23.5	-62.32	5,221.7	-931.1	1,061.2	962.7	98.55	10.768		
13,600.0	8,036.0	7,705.0	7,567.5	94.1	23.5	-62.32	5,221.7	-931.1	1,039.6	939.6	100.02	10.394		
13,700.0	8,036.0	7,705.0	7,567.5	95.7	23.5	-62.32	5,221.7	-931.1	1,027.4	926.4	100.99	10.174		
13,774.4	8,036.0	7,705.0	7,567.5	96.9	23.5	-62.32	5,221.7	-931.1	1,024.6	923.2	101.36	10.108 CC, ES		
13,800.0	8,036.0	7,705.0	7,567.5	97.3	23.5	-62.32	5,221.7	-931.1	1,024.8	923.4	101.42	10.104 SF		
13,900.0	8,036.0	7,705.0	7,567.5	98.9	23.5	-62.28	5,221.7	-931.1	1,033.0	931.7	101.36	10.191		
14,000.0	8,036.0	7,705.0	7,567.5	100.5	23.5	-62.19	5,221.7	-931.1	1,052.2	951.3	100.87	10.432		
14,100.0	8,036.0	7,705.0	7,567.5	102.1	23.5	-62.04	5,221.7	-931.1	1,081.8	981.8	100.00	10.818		
14,200.0	8,036.0	7,705.0	7,567.5	103.7	23.5	-61.84	5,221.7	-931.1	1,121.0	1,022.1	98.85	11.340		
14,300.0	8,036.0	7,705.0	7,567.5	105.3	23.5	-61.58	5,221.7	-931.1	1,168.8	1,071.3	97.49	11.988		
14,400.0	8,036.0	7,705.0	7,567.5	106.8	23.5	-61.26	5,221.7	-931.1	1,224.1	1,128.1	96.01	12.750		
14,500.0	8,036.0	7,705.0	7,567.5	108.3	23.5	-60.88	5,221.7	-931.1	1,286.1	1,191.6	94.47	13.613		
14,600.0	8,036.0	7,705.0	7,567.5	109.8	23.5	-60.43	5,221.7	-931.1	1,353.7	1,260.8	92.93	14.567		
14,700.0	8,036.0	7,705.0	7,567.5	111.3	23.5	-60.38	5,221.7	-931.1	1,425.7	1,334.3	91.42	15.596		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,700.0	8,036.0	8,180.0	8,027.2	95.7	24.4	88.64	6,630.1	539.5	1,479.9	1,418.0	61.81	23.940		
13,800.0	8,036.0	8,180.4	8,027.5	97.3	24.4	88.66	6,630.1	539.5	1,393.7	1,328.8	64.89	21.478		
13,900.0	8,036.0	8,180.7	8,027.9	98.9	24.4	88.66	6,630.1	539.5	1,308.9	1,240.6	68.39	19.139		
14,000.0	8,036.0	8,181.2	8,028.3	100.5	24.4	88.65	6,630.1	539.5	1,225.5	1,153.1	72.34	16.941		
14,100.0	8,036.0	8,181.6	8,028.8	102.1	24.4	88.66	6,630.1	539.5	1,143.6	1,066.8	76.78	14.893		
14,200.0	8,036.0	8,182.1	8,029.3	103.7	24.4	88.67	6,630.1	539.5	1,063.7	981.9	81.80	13.002		
14,300.0	8,036.0	8,182.6	8,029.8	105.3	24.4	88.68	6,630.1	539.6	986.3	898.8	87.46	11.277		
14,400.0	8,036.0	8,183.1	8,030.3	106.8	24.4	88.71	6,630.1	539.6	912.0	818.2	93.81	9.723		
14,500.0	8,036.0	8,183.7	8,030.9	108.3	24.4	88.74	6,630.1	539.6	841.9	741.0	100.86	8.347		
14,600.0	8,036.0	8,184.3	8,031.5	109.8	24.4	88.77	6,630.1	539.6	776.8	668.3	108.55	7.157		
14,700.0	8,036.0	8,184.9	8,032.1	111.3	24.4	88.83	6,630.1	539.6	719.0	602.3	116.70	6.161		
14,800.0	8,036.0	8,185.5	8,032.7	112.8	24.4	88.89	6,630.1	539.6	671.2	546.3	124.88	5.375		
14,900.0	8,036.0	8,186.1	8,033.3	114.3	24.4	88.94	6,630.1	539.6	635.6	503.3	132.24	4.806		
15,000.0	8,036.0	8,186.7	8,033.9	115.9	24.4	89.00	6,630.1	539.6	614.3	476.6	137.70	4.461		
15,082.6	8,036.0	8,187.2	8,034.4	117.1	24.4	89.05	6,630.1	539.6	608.7	468.7	140.08	4.346 CC, ES		
15,100.0	8,036.0	8,187.3	8,034.5	117.4	24.4	89.06	6,630.1	539.6	609.0	468.7	140.30	4.341 SF		
15,200.0	8,036.0	8,187.9	8,035.1	118.9	24.4	89.11	6,630.1	539.6	620.0	480.3	139.66	4.439		
15,300.0	8,036.0	8,188.5	8,035.7	120.4	24.4	89.17	6,630.1	539.7	646.4	510.3	136.11	4.749		
15,400.0	8,036.0	8,189.1	8,036.3	121.9	24.4	89.23	6,630.1	539.7	686.5	556.0	130.54	5.259		
15,500.0	8,036.0	8,189.7	8,036.9	123.4	24.4	89.29	6,630.1	539.7	738.1	614.1	123.94	5.955		
15,600.0	8,036.0	8,190.3	8,037.5	124.9	24.4	89.34	6,630.1	539.7	798.9	681.8	117.08	6.823		
15,700.0	8,036.0	8,190.9	8,038.1	126.4	24.4	89.40	6,630.1	539.7	867.0	756.5	110.47	7.848		
15,800.0	8,036.0	8,191.5	8,038.7	128.0	24.4	89.46	6,630.1	539.7	940.8	836.5	104.37	9.014		
15,900.0	8,036.0	8,192.2	8,039.3	129.5	24.4	89.51	6,630.1	539.7	1,019.1	920.3	98.88	10.307		
16,000.0	8,036.0	8,192.8	8,039.9	131.0	24.4	89.57	6,630.1	539.7	1,100.9	1,006.9	94.00	11.712		
16,100.0	8,036.0	8,193.4	8,040.6	132.5	24.4	89.63	6,630.1	539.7	1,185.6	1,095.9	89.70	13.217		
16,200.0	8,036.0	8,194.0	8,041.2	134.1	24.4	89.69	6,630.1	539.7	1,272.4	1,186.5	85.93	14.808		
16,300.0	8,036.0	8,194.6	8,041.8	135.6	24.4	89.74	6,630.1	539.8	1,361.1	1,278.4	82.61	16.475		
16,400.0	8,036.0	8,195.2	8,042.4	137.1	24.4	89.80	6,630.1	539.8	1,451.2	1,371.5	79.70	18.207		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
11,800.0	8,036.0	8,112.3	8,018.2	65.8	20.8	-84.46	4,756.3	-187.3	1,436.1	1,386.9	49.21	29.184		
11,900.0	8,036.0	8,115.1	8,021.0	67.3	20.8	-84.56	4,756.3	-187.2	1,338.7	1,288.6	50.02	26.760		
12,000.0	8,036.0	8,117.9	8,023.8	68.8	20.8	-84.70	4,756.4	-187.2	1,241.2	1,190.3	50.94	24.368		
12,100.0	8,036.0	8,120.6	8,026.5	70.3	20.8	-84.88	4,756.5	-187.1	1,143.8	1,091.8	51.96	22.012		
12,200.0	8,036.0	8,123.2	8,029.2	71.8	20.8	-85.12	4,756.6	-187.0	1,046.4	993.2	53.13	19.695		
12,300.0	8,036.0	8,125.9	8,031.8	73.4	20.8	-85.41	4,756.6	-187.0	949.1	894.6	54.48	17.421		
12,400.0	8,036.0	8,128.4	8,034.3	75.0	20.8	-86.19	4,756.7	-186.9	852.2	796.1	56.14	15.181		
12,500.0	8,036.0	8,131.0	8,036.9	76.5	20.8	-86.84	4,756.8	-186.9	756.3	698.0	58.33	12.966		
12,600.0	8,036.0	8,133.6	8,039.5	78.1	20.8	-87.48	4,756.8	-186.8	661.7	600.4	61.23	10.806		
12,700.0	8,036.0	8,136.1	8,042.0	79.7	20.8	-88.12	4,756.9	-186.8	568.8	503.7	65.16	8.729		
12,800.0	8,036.0	8,138.7	8,044.6	81.2	20.8	-88.76	4,757.0	-186.7	478.9	408.3	70.63	6.780		
12,900.0	8,036.0	8,141.2	8,047.1	82.8	20.8	-89.39	4,757.1	-186.7	393.8	315.5	78.34	5.027		
13,000.0	8,036.0	8,143.7	8,049.6	84.4	20.8	-90.02	4,757.1	-186.6	317.5	228.6	88.92	3.571		
13,100.0	8,036.0	8,146.2	8,052.1	86.0	20.8	-90.64	4,757.2	-186.6	258.0	156.8	101.17	2.550		
13,200.0	8,036.0	8,148.6	8,054.5	87.6	20.8	-91.27	4,757.3	-186.5	228.6	120.9	107.70	2.123		
13,221.5	8,036.0	8,149.2	8,055.1	88.0	20.8	-91.40	4,757.3	-186.5	227.6	120.3	107.25	2.122 CC, ES, SF		
13,300.0	8,036.0	8,151.1	8,057.0	89.2	20.8	-91.89	4,757.3	-186.5	240.7	141.0	99.73	2.414		
13,400.0	8,036.0	8,153.6	8,059.5	90.8	20.8	-92.51	4,757.4	-186.4	289.2	204.9	84.31	3.430		
13,500.0	8,036.0	8,156.1	8,061.9	92.4	20.8	-93.13	4,757.5	-186.4	359.6	288.2	71.38	5.038		
13,600.0	8,036.0	8,158.5	8,064.4	94.1	20.8	-93.75	4,757.5	-186.3	441.6	378.9	62.66	7.047		
13,700.0	8,036.0	8,161.0	8,066.9	95.7	20.8	-94.37	4,757.6	-186.2	529.7	472.7	57.02	9.291		
13,800.0	8,036.0	8,163.4	8,069.3	97.3	20.8	-95.03	4,757.7	-186.2	621.5	568.2	53.34	11.653		
13,900.0	8,036.0	8,165.9	8,071.8	98.9	20.8	-95.94	4,757.7	-186.1	715.8	664.9	50.95	14.049		
14,000.0	8,036.0	8,168.4	8,074.3	100.5	20.8	-97.03	4,757.8	-186.1	812.0	762.6	49.41	16.433		
14,100.0	8,036.0	8,171.0	8,076.9	102.1	20.8	-98.34	4,757.9	-186.0	909.3	860.9	48.40	18.787		
14,200.0	8,036.0	8,173.6	8,079.5	103.7	20.8	-99.98	4,758.0	-186.0	1,007.5	959.8	47.73	21.107		
14,300.0	8,036.0	8,176.2	8,082.1	105.3	20.8	-102.11	4,758.0	-185.9	1,106.3	1,059.0	47.29	23.393		
14,400.0	8,036.0	8,178.9	8,084.7	106.8	20.8	-104.96	4,758.1	-185.9	1,205.5	1,158.5	47.01	25.645		
14,500.0	8,036.0	8,181.6	8,087.4	108.3	20.8	-109.03	4,758.2	-185.8	1,305.0	1,258.2	46.83	27.867		
14,600.0	8,036.0	8,184.3	8,090.2	109.8	20.8	-115.21	4,758.2	-185.8	1,404.7	1,358.0	46.73	30.060		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
13,400.0	8,036.0	8,137.3	8,013.9	90.8	23.8	88.52	5,973.4	1,085.8	1,471.3	1,384.7	86.59	16.991		
13,500.0	8,036.0	8,137.8	8,014.4	92.4	23.8	88.55	5,973.4	1,085.8	1,414.7	1,324.4	90.37	15.655		
13,600.0	8,036.0	8,138.3	8,014.9	94.1	23.8	88.57	5,973.4	1,085.8	1,363.1	1,268.8	94.31	14.454		
13,700.0	8,036.0	8,138.8	8,015.4	95.7	23.8	88.60	5,973.4	1,085.8	1,317.1	1,218.8	98.36	13.390		
13,800.0	8,036.0	8,139.3	8,015.9	97.3	23.8	88.62	5,973.4	1,085.8	1,277.3	1,174.8	102.47	12.465		
13,900.0	8,036.0	8,139.9	8,016.5	98.9	23.8	88.64	5,973.4	1,085.8	1,243.1	1,136.6	106.51	11.671		
14,000.0	8,036.0	8,140.5	8,017.0	100.5	23.8	88.66	5,973.5	1,085.8	1,214.5	1,104.1	110.40	11.001		
14,100.0	8,036.0	8,141.1	8,017.6	102.1	23.8	88.68	5,973.5	1,085.8	1,191.9	1,077.9	114.04	10.452		
14,200.0	8,036.0	8,141.7	8,018.3	103.7	23.8	88.71	5,973.5	1,085.9	1,175.7	1,058.4	117.31	10.022		
14,300.0	8,036.0	8,142.4	8,019.0	105.3	23.8	88.74	5,973.5	1,085.9	1,166.1	1,046.0	120.13	9.707		
14,391.2	8,036.0	8,143.1	8,019.6	106.7	23.8	88.77	5,973.5	1,085.9	1,163.2	1,041.0	122.21	9.518 CC		
14,400.0	8,036.0	8,143.1	8,019.7	106.8	23.8	88.78	5,973.5	1,085.9	1,163.3	1,040.9	122.38	9.505 ES		
14,500.0	8,036.0	8,143.9	8,020.4	108.3	23.8	88.82	5,973.5	1,085.9	1,167.3	1,043.3	124.00	9.413 SF		
14,600.0	8,036.0	8,144.7	8,021.2	109.8	23.8	88.86	5,973.5	1,085.9	1,178.1	1,053.1	124.93	9.429		
14,700.0	8,036.0	8,145.5	8,022.0	111.3	23.8	88.90	5,973.5	1,085.9	1,196.1	1,070.9	125.19	9.555		
14,800.0	8,036.0	8,146.3	8,022.8	112.8	23.8	88.94	5,973.5	1,086.0	1,222.1	1,097.3	124.81	9.792		
14,900.0	8,036.0	8,147.1	8,023.6	114.3	23.8	88.98	5,973.5	1,086.0	1,255.6	1,131.7	123.86	10.137		
15,000.0	8,036.0	8,147.9	8,024.5	115.9	23.8	89.02	5,973.5	1,086.0	1,295.9	1,173.4	122.45	10.583		
15,100.0	8,036.0	8,148.7	8,025.3	117.4	23.8	89.05	5,973.5	1,086.0	1,342.5	1,221.8	120.68	11.124		
15,200.0	8,036.0	8,149.5	8,026.1	118.9	23.8	89.09	5,973.5	1,086.0	1,394.6	1,276.0	118.64	11.755		
15,300.0	8,036.0	8,150.3	8,026.9	120.4	23.8	89.13	5,973.5	1,086.0	1,451.9	1,335.4	116.43	12.470		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis		
12,000.0	8,036.0	8,245.8	8,042.9	68.8	26.8	89.13	4,736.5	1,053.6	1,448.6	1,375.0	73.60	19.682	
12,100.0	8,036.0	8,245.8	8,042.9	70.3	26.8	89.14	4,736.5	1,053.6	1,375.8	1,299.2	76.55	17.972	
12,200.0	8,036.0	8,245.7	8,042.9	71.8	26.8	89.16	4,736.5	1,053.6	1,307.9	1,228.0	79.83	16.383	
12,300.0	8,036.0	8,245.7	8,042.9	73.4	26.8	89.17	4,736.5	1,053.6	1,245.7	1,162.3	83.41	14.934	
12,400.0	8,036.0	8,245.6	8,042.8	75.0	26.8	89.16	4,736.5	1,053.6	1,189.3	1,102.1	87.19	13.640	
12,500.0	8,036.0	8,245.6	8,042.7	76.5	26.8	89.15	4,736.5	1,053.6	1,138.3	1,047.2	91.04	12.503	
12,600.0	8,036.0	8,245.5	8,042.7	78.1	26.8	89.15	4,736.5	1,053.6	1,094.0	999.2	94.85	11.535	
12,700.0	8,036.0	8,245.5	8,042.6	79.7	26.8	89.15	4,736.5	1,053.6	1,057.4	959.0	98.46	10.739	
12,800.0	8,036.0	8,245.4	8,042.6	81.2	26.8	89.15	4,736.5	1,053.6	1,029.3	927.6	101.71	10.120	
12,900.0	8,036.0	8,245.4	8,042.5	82.8	26.8	89.14	4,736.5	1,053.6	1,010.3	905.9	104.40	9.678	
13,000.0	8,036.0	8,245.3	8,042.5	84.4	26.8	89.14	4,736.5	1,053.6	1,001.0	894.6	106.38	9.410	
13,043.6	8,036.0	8,245.3	8,042.4	85.1	26.8	89.14	4,736.5	1,053.6	1,000.1	893.1	107.00	9.347 CC, ES	
13,100.0	8,036.0	8,245.3	8,042.4	86.0	26.8	89.14	4,736.5	1,053.6	1,001.6	894.1	107.56	9.313 SF	
13,200.0	8,036.0	8,245.2	8,042.4	87.6	26.8	89.13	4,736.5	1,053.6	1,012.2	904.3	107.91	9.380	
13,300.0	8,036.0	8,245.1	8,042.3	89.2	26.8	89.13	4,736.5	1,053.6	1,032.4	924.9	107.50	9.603	
13,400.0	8,036.0	8,245.1	8,042.2	90.8	26.8	89.13	4,736.5	1,053.6	1,061.7	955.2	106.46	9.973	
13,500.0	8,036.0	8,245.0	8,042.2	92.4	26.8	89.12	4,736.5	1,053.6	1,099.3	994.3	104.93	10.476	
13,600.0	8,036.0	8,245.0	8,042.1	94.1	26.8	89.12	4,736.5	1,053.6	1,144.4	1,041.3	103.08	11.102	
13,700.0	8,036.0	8,244.9	8,042.1	95.7	26.8	89.12	4,736.5	1,053.6	1,196.2	1,095.2	101.06	11.837	
13,800.0	8,036.0	8,244.9	8,042.0	97.3	26.8	89.12	4,736.5	1,053.6	1,253.9	1,154.9	98.98	12.668	
13,900.0	8,036.0	8,244.8	8,042.0	98.9	26.8	89.13	4,736.5	1,053.6	1,315.7	1,218.8	96.89	13.579	
14,000.0	8,036.0	8,244.8	8,042.0	100.5	26.8	89.14	4,736.5	1,053.6	1,380.7	1,285.9	94.83	14.560	
14,100.0	8,036.0	8,244.8	8,042.0	102.1	26.8	89.15	4,736.5	1,053.6	1,448.5	1,355.6	92.83	15.604	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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		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			
12,600.0	8,036.0	8,037.8	8,036.7	78.1	14.1	87.69	5,622.7	102.1	1,453.2	1,410.5	42.67	34.053		
12,700.0	8,036.0	8,038.4	8,037.3	79.7	14.1	87.88	5,622.7	102.1	1,353.9	1,311.2	42.74	31.680		
12,800.0	8,036.0	8,038.9	8,037.8	81.2	14.1	88.06	5,622.7	102.1	1,254.7	1,211.9	42.84	29.292		
12,900.0	8,036.0	8,039.5	8,038.3	82.8	14.1	88.24	5,622.7	102.1	1,155.7	1,112.8	42.98	26.888		
13,000.0	8,036.0	8,040.0	8,038.9	84.4	14.1	88.42	5,622.7	102.1	1,056.9	1,013.7	43.21	24.461		
13,100.0	8,036.0	8,040.5	8,039.4	86.0	14.1	88.60	5,622.7	102.1	958.3	914.8	43.55	22.006		
13,200.0	8,036.0	8,041.0	8,039.9	87.6	14.1	88.78	5,622.7	102.1	860.1	816.0	44.07	19.515		
13,300.0	8,036.0	8,041.5	8,040.4	89.2	14.1	88.95	5,622.7	102.1	762.2	717.4	44.88	16.983		
13,400.0	8,036.0	8,042.1	8,040.9	90.8	14.1	89.13	5,622.8	102.1	665.1	618.9	46.17	14.404		
13,500.0	8,036.0	8,042.6	8,041.4	92.4	14.1	89.30	5,622.8	102.1	568.9	520.6	48.27	11.785		
13,600.0	8,036.0	8,043.1	8,042.0	94.1	14.1	89.47	5,622.8	102.1	474.3	422.5	51.79	9.159		
13,700.0	8,036.0	8,043.6	8,042.5	95.7	14.1	89.64	5,622.8	102.1	382.5	324.7	57.84	6.613		
13,800.0	8,036.0	8,044.1	8,042.9	97.3	14.1	89.81	5,622.8	102.1	296.0	227.5	68.48	4.322		
13,900.0	8,036.0	8,044.6	8,043.4	98.9	14.1	89.98	5,622.8	102.1	220.3	133.9	86.40	2.550		
14,000.0	8,036.0	8,045.0	8,043.9	100.5	14.1	90.15	5,622.8	102.1	169.9	60.7	109.21	1.556		
14,051.1	8,036.0	8,045.3	8,044.2	101.3	14.1	90.23	5,622.8	102.1	162.3	47.0	115.32	1.407 Level 3, CC, ES, SF		
14,100.0	8,036.0	8,045.5	8,044.4	102.1	14.1	90.31	5,622.8	102.1	169.3	56.1	113.14	1.496 Level 3		
14,200.0	8,036.0	8,046.0	8,044.8	103.7	14.1	90.47	5,622.8	102.1	218.8	123.8	94.98	2.304		
14,300.0	8,036.0	8,046.4	8,045.3	105.3	14.1	90.61	5,622.8	102.1	294.1	215.8	78.32	3.755		
14,400.0	8,036.0	8,046.8	8,045.7	106.8	14.1	90.74	5,622.8	102.1	380.2	312.7	67.48	5.634		
14,500.0	8,036.0	8,047.3	8,046.1	108.3	14.1	90.85	5,622.8	102.1	471.2	410.6	60.54	7.783		
14,600.0	8,036.0	8,047.7	8,046.6	109.8	14.1	90.93	5,622.8	102.1	564.7	508.8	55.91	10.100		
14,700.0	8,036.0	8,048.1	8,047.0	111.3	14.1	91.05	5,622.8	102.1	659.7	607.0	52.76	12.504		
14,800.0	8,036.0	8,048.5	8,047.4	112.8	14.1	91.18	5,622.8	102.0	756.1	705.5	50.63	14.934		
14,900.0	8,036.0	8,048.9	8,047.8	114.3	14.1	91.30	5,622.8	102.0	853.3	804.2	49.14	17.363		
15,000.0	8,036.0	8,049.3	8,048.2	115.9	14.1	91.42	5,622.8	102.0	951.1	903.0	48.09	19.779		
15,100.0	8,036.0	8,049.7	8,048.6	117.4	14.1	91.54	5,622.8	102.0	1,049.3	1,002.0	47.32	22.174		
15,200.0	8,036.0	8,050.1	8,049.0	118.9	14.1	91.66	5,622.8	102.0	1,147.8	1,101.0	46.76	24.547		
15,300.0	8,036.0	8,050.5	8,049.4	120.4	14.1	91.78	5,622.8	102.0	1,246.5	1,200.2	46.34	26.897		
15,400.0	8,036.0	8,050.9	8,049.8	121.9	14.1	91.90	5,622.8	102.0	1,345.5	1,299.4	46.04	29.227		
15,500.0	8,036.0	8,051.3	8,050.2	123.4	14.1	92.02	5,622.8	102.0	1,444.5	1,398.7	45.81	31.536		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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						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		
10,000.0	8,036.0	8,100.0	8,098.4	42.0	14.2	-111.26	3,062.1	58.4	1,498.1	1,455.8	42.26	35.449		
10,100.0	8,036.0	8,100.0	8,098.4	43.2	14.2	-111.26	3,062.1	58.4	1,398.7	1,356.3	42.35	33.027		
10,200.0	8,036.0	8,100.0	8,098.4	44.4	14.2	-111.26	3,062.1	58.4	1,299.4	1,257.0	42.46	30.605		
10,300.0	8,036.0	8,093.1	8,091.6	45.6	14.2	-108.97	3,062.4	58.5	1,200.2	1,157.7	42.57	28.197		
10,400.0	8,036.0	8,089.0	8,087.5	46.8	14.1	-107.57	3,062.6	58.5	1,101.2	1,058.5	42.71	25.781		
10,500.0	8,036.0	8,084.9	8,083.3	48.1	14.1	-106.13	3,062.8	58.5	1,002.4	959.5	42.90	23.363		
10,600.0	8,036.0	8,080.6	8,079.1	49.4	14.1	-104.65	3,063.0	58.5	903.7	860.6	43.16	20.941		
10,700.0	8,036.0	8,076.3	8,074.8	50.7	14.1	-103.12	3,063.2	58.5	805.4	761.9	43.50	18.516		
10,800.0	8,036.0	8,072.0	8,070.4	52.0	14.1	-101.55	3,063.4	58.5	707.5	663.6	43.98	16.086		
10,900.0	8,036.0	8,067.5	8,066.0	53.3	14.1	-99.93	3,063.6	58.6	610.3	565.6	44.70	13.653		
11,000.0	8,036.0	8,063.0	8,061.5	54.7	14.1	-98.27	3,063.8	58.6	514.2	468.3	45.83	11.220		
11,100.0	8,036.0	8,058.4	8,056.9	56.0	14.1	-96.57	3,064.0	58.6	419.7	372.0	47.69	8.800		
11,200.0	8,036.0	8,053.8	8,052.3	57.4	14.1	-94.83	3,064.2	58.7	328.5	277.5	51.02	6.439		
11,300.0	8,036.0	8,049.1	8,047.6	58.8	14.1	-93.05	3,064.4	58.7	244.2	186.9	57.25	4.265		
11,400.0	8,036.0	8,044.3	8,042.8	60.2	14.1	-91.24	3,064.7	58.7	176.9	109.0	67.95	2.604		
11,492.0	8,036.0	8,039.8	8,038.3	61.4	14.1	-89.54	3,064.9	58.8	151.2	75.7	75.48	2.003 CC, ES, SF		
11,500.0	8,036.0	8,039.4	8,037.9	61.6	14.1	-89.39	3,064.9	58.8	151.4	75.9	75.47	2.006		
11,600.0	8,036.0	8,034.4	8,032.9	63.0	14.1	-87.51	3,065.2	58.8	185.7	118.4	67.36	2.757		
11,700.0	8,036.0	8,029.4	8,027.9	64.4	14.0	-85.69	3,065.4	58.8	256.3	198.7	57.57	4.452		
11,800.0	8,036.0	8,024.3	8,022.8	65.8	14.0	-83.98	3,065.7	58.9	341.0	289.3	51.71	6.594		
11,900.0	8,036.0	8,019.1	8,017.6	67.3	14.0	-82.43	3,065.9	58.9	431.6	383.2	48.41	8.915		
12,000.0	8,036.0	8,013.9	8,012.4	68.8	14.0	-81.06	3,066.2	59.0	525.0	478.5	46.45	11.302		
12,100.0	8,036.0	8,008.6	8,007.1	70.3	14.0	-79.89	3,066.5	59.0	619.9	574.7	45.23	13.707		
12,200.0	8,036.0	8,003.2	8,001.8	71.8	14.0	-78.92	3,066.7	59.1	715.8	671.4	44.43	16.110		
12,300.0	8,036.0	7,997.9	7,996.5	73.4	14.0	-78.18	3,067.0	59.1	812.2	768.3	43.90	18.502		
12,400.0	8,036.0	7,992.7	7,991.3	75.0	14.0	-76.33	3,067.3	59.2	909.2	865.6	43.55	20.877		
12,500.0	8,036.0	7,987.5	7,986.1	76.5	14.0	-74.91	3,067.5	59.2	1,006.9	963.5	43.33	23.236		
12,600.0	8,036.0	7,982.2	7,980.8	78.1	14.0	-73.49	3,067.8	59.3	1,104.9	1,061.7	43.20	25.579		
12,700.0	8,036.0	7,976.9	7,975.5	79.7	14.0	-72.08	3,068.1	59.3	1,203.3	1,160.2	43.11	27.910		
12,800.0	8,036.0	7,971.6	7,970.2	81.2	13.9	-70.68	3,068.4	59.4	1,301.9	1,258.8	43.07	30.228		
12,900.0	8,036.0	7,966.1	7,964.8	82.8	13.9	-69.29	3,068.7	59.4	1,400.7	1,357.6	43.05	32.536		
13,000.0	8,036.0	7,960.7	7,959.3	84.4	13.9	-67.91	3,069.0	59.5	1,499.6	1,456.6	43.05	34.833		

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 4E-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 4E-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 #5	<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 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	8.33	306.0	44.8	310.5					
100.0	100.0	72.5	72.5	0.1	0.1	8.33	306.0	44.8	309.3	309.0	0.25	1,213.411		
200.0	200.0	172.5	172.5	0.5	0.3	8.33	306.0	44.8	309.3	308.5	0.79	392.548		
300.0	300.0	272.5	272.5	0.8	0.5	-150.17	306.0	44.8	310.8	309.5	1.31	237.576		
400.0	399.8	372.3	372.3	1.2	0.7	-150.60	306.0	44.8	315.3	313.5	1.83	172.127		
500.0	499.5	472.0	472.0	1.5	0.8	-151.28	306.0	44.8	323.0	320.6	2.37	136.506		
600.0	598.7	571.2	571.2	1.9	1.0	-152.19	306.0	44.8	333.7	330.8	2.91	114.813		
700.0	697.5	670.0	670.0	2.3	1.2	-153.26	306.0	44.8	347.7	344.2	3.45	100.681		
800.0	795.6	768.1	768.1	2.8	1.3	-154.46	306.0	44.8	364.9	360.8	4.01	90.978		
900.0	893.5	866.0	866.0	3.2	1.5	-155.79	306.0	44.8	383.7	379.2	4.55	84.260		
1,000.0	991.3	963.8	963.8	3.7	1.7	-156.99	306.0	44.8	402.8	397.7	5.10	78.973		
1,100.0	1,089.1	1,061.6	1,061.6	4.1	1.9	-158.09	306.0	44.8	422.0	416.3	5.65	74.720		
1,200.0	1,186.9	1,159.4	1,159.4	4.6	2.0	-159.09	306.0	44.8	441.3	435.1	6.20	71.234		
1,300.0	1,284.8	1,257.3	1,257.3	5.0	2.2	-160.01	306.0	44.8	460.8	454.1	6.74	68.328		
1,400.0	1,382.6	1,355.1	1,355.1	5.5	2.4	-160.85	306.0	44.8	480.4	473.1	7.29	65.873		
1,500.0	1,480.4	1,452.9	1,452.9	6.0	2.5	-161.63	306.0	44.8	500.0	492.2	7.84	63.773		
1,600.0	1,578.3	1,550.8	1,550.8	6.4	2.7	-162.35	306.0	44.8	519.8	511.4	8.39	61.957		
1,700.0	1,676.1	1,648.6	1,648.6	6.9	2.9	-163.01	306.0	44.8	539.6	530.7	8.94	60.373		
1,800.0	1,773.9	1,746.4	1,746.4	7.4	3.0	-163.63	306.0	44.8	559.5	550.0	9.49	58.979		
1,900.0	1,871.7	1,844.2	1,844.2	7.9	3.2	-164.21	306.0	44.8	579.4	569.4	10.03	57.743		
2,000.0	1,969.6	1,942.1	1,942.1	8.3	3.4	-164.75	306.0	44.8	599.4	588.9	10.58	56.641		
2,100.0	2,067.4	2,039.9	2,039.9	8.8	3.6	-165.25	306.0	44.8	619.5	608.4	11.13	55.652		
2,200.0	2,165.2	2,137.7	2,137.7	9.3	3.7	-165.72	306.0	44.8	639.6	627.9	11.68	54.759		
2,300.0	2,263.1	2,235.6	2,235.6	9.8	3.9	-166.16	306.0	44.8	659.7	647.5	12.23	53.950		
2,400.0	2,360.9	2,333.4	2,333.4	10.2	4.1	-166.58	306.0	44.8	679.9	667.1	12.78	53.213		
2,500.0	2,458.7	2,431.2	2,431.2	10.7	4.2	-166.97	306.0	44.8	700.1	686.7	13.32	52.539		
2,600.0	2,556.6	2,529.1	2,529.1	11.2	4.4	-167.35	306.0	44.8	720.3	706.4	13.87	51.920		
2,700.0	2,654.4	2,626.9	2,626.9	11.7	4.6	-167.70	306.0	44.8	740.5	726.1	14.42	51.351		
2,800.0	2,752.2	2,724.7	2,724.7	12.1	4.8	-168.03	306.0	44.8	760.8	745.8	14.97	50.824		
2,900.0	2,850.0	2,822.5	2,822.5	12.6	4.9	-168.34	306.0	44.8	781.1	765.6	15.52	50.337		
3,000.0	2,947.9	2,920.4	2,920.4	13.1	5.1	-168.64	306.0	44.8	801.4	785.4	16.07	49.883		
3,100.0	3,045.7	3,018.2	3,018.2	13.6	5.3	-168.93	306.0	44.8	821.8	805.2	16.61	49.461		
3,200.0	3,143.5	3,116.0	3,116.0	14.0	5.4	-169.20	306.0	44.8	842.1	825.0	17.16	49.067		
3,300.0	3,241.4	3,213.9	3,213.9	14.5	5.6	-169.46	306.0	44.8	862.5	844.8	17.71	48.698		
3,400.0	3,339.2	3,311.7	3,311.7	15.0	5.8	-169.70	306.0	44.8	882.9	864.7	18.26	48.352		
3,500.0	3,437.1	3,409.6	3,409.6	15.5	6.0	-169.96	306.0	44.8	903.2	884.4	18.81	48.020		
3,600.0	3,535.4	3,507.9	3,507.9	15.9	6.1	-170.21	306.0	44.8	920.8	901.5	19.35	47.586		
3,700.0	3,634.4	3,606.9	3,606.9	16.3	6.3	-170.41	306.0	44.8	935.1	915.2	19.89	47.018		
3,800.0	3,733.7	3,706.2	3,706.2	16.7	6.5	-170.56	306.0	44.8	946.0	925.6	20.42	46.328		
3,900.0	3,833.5	3,806.0	3,806.0	17.1	6.6	-170.66	306.0	44.8	953.5	932.5	20.94	45.524		
4,000.0	3,933.4	3,905.9	3,905.9	17.4	6.8	-170.71	306.0	44.8	957.5	936.0	21.46	44.615		
4,100.0	4,033.4	4,005.9	4,005.9	17.7	7.0	-12.36	306.0	44.8	958.2	936.3	21.95	43.654		
4,200.0	4,133.4	4,105.9	4,105.9	17.9	7.2	-12.36	306.0	44.8	958.2	935.8	22.43	42.719		
4,300.0	4,233.4	4,205.9	4,205.9	18.2	7.3	-12.36	306.0	44.8	958.2	935.3	22.91	41.819		
4,400.0	4,333.4	4,305.9	4,305.9	18.5	7.5	-12.36	306.0	44.8	958.2	934.8	23.40	40.952		
4,500.0	4,433.4	4,405.9	4,405.9	18.7	7.7	-12.36	306.0	44.8	958.2	934.4	23.89	40.117		
4,600.0	4,533.4	4,505.9	4,505.9	19.0	7.9	-12.36	306.0	44.8	958.2	933.9	24.37	39.313		
4,700.0	4,633.4	4,605.9	4,605.9	19.3	8.0	-12.36	306.0	44.8	958.2	933.4	24.87	38.537		
4,800.0	4,733.4	4,705.9	4,705.9	19.6	8.2	-12.36	306.0	44.8	958.2	932.9	25.36	37.789		
4,900.0	4,833.4	4,805.9	4,805.9	19.8	8.4	-12.36	306.0	44.8	958.2	932.4	25.85	37.067		
5,000.0	4,933.4	4,905.9	4,905.9	20.1	8.6	-12.36	306.0	44.8	958.2	931.9	26.35	36.371		
5,100.0	5,033.4	5,005.9	5,005.9	20.4	8.7	-12.36	306.0	44.8	958.2	931.4	26.84	35.698		

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 4E-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 4E-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 #5	<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						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	5,133.4	5,105.9	5,105.9	20.7	8.9	-12.36	306.0	44.8	958.2	930.9	27.34	35.047		
5,300.0	5,233.4	5,205.9	5,205.9	21.0	9.1	-12.36	306.0	44.8	958.2	930.4	27.84	34.419		
5,400.0	5,333.4	5,305.9	5,305.9	21.3	9.3	-12.36	306.0	44.8	958.2	929.9	28.34	33.811		
5,500.0	5,433.4	5,405.9	5,405.9	21.6	9.4	-12.36	306.0	44.8	958.2	929.4	28.84	33.223		
5,600.0	5,533.4	5,505.9	5,505.9	21.9	9.6	-12.36	306.0	44.8	958.2	928.9	29.35	32.654		
5,700.0	5,633.4	5,605.9	5,605.9	22.2	9.8	-12.36	306.0	44.8	958.2	928.4	29.85	32.102		
5,800.0	5,733.4	5,705.9	5,705.9	22.5	10.0	-12.36	306.0	44.8	958.2	927.9	30.35	31.569		
5,900.0	5,833.4	5,805.9	5,805.9	22.8	10.1	-12.36	306.0	44.8	958.2	927.4	30.86	31.051		
6,000.0	5,933.4	5,905.9	5,905.9	23.1	10.3	-12.36	306.0	44.8	958.2	926.9	31.37	30.550		
6,100.0	6,033.4	6,005.9	6,005.9	23.4	10.5	-12.36	306.0	44.8	958.2	926.4	31.87	30.063		
6,200.0	6,133.4	6,105.9	6,105.9	23.7	10.7	-12.36	306.0	44.8	958.2	925.9	32.38	29.592		
6,300.0	6,233.4	6,205.9	6,205.9	24.0	10.8	-12.36	306.0	44.8	958.2	925.4	32.89	29.134		
6,400.0	6,333.4	6,305.9	6,305.9	24.3	11.0	-12.36	306.0	44.8	958.2	924.8	33.40	28.689		
6,500.0	6,433.4	6,405.9	6,405.9	24.6	11.2	-12.36	306.0	44.8	958.2	924.3	33.91	28.257		
6,600.0	6,533.4	6,505.9	6,505.9	24.9	11.4	-12.36	306.0	44.8	958.2	923.8	34.42	27.837		
6,700.0	6,633.4	6,605.9	6,605.9	25.2	11.5	-12.36	306.0	44.8	958.2	923.3	34.93	27.430		
6,800.0	6,733.4	6,705.9	6,705.9	25.5	11.7	-12.36	306.0	44.8	958.2	922.8	35.45	27.033		
6,900.0	6,833.4	6,805.9	6,805.9	25.9	11.9	-12.36	306.0	44.8	958.2	922.3	35.96	26.647		
7,000.0	6,933.4	6,905.9	6,905.9	26.2	12.1	-12.36	306.0	44.8	958.2	921.8	36.47	26.272		
7,100.0	7,033.4	7,005.9	7,005.9	26.5	12.2	-12.36	306.0	44.8	958.2	921.3	36.99	25.907		
7,200.0	7,133.4	7,105.9	7,105.9	26.8	12.4	-12.36	306.0	44.8	958.2	920.7	37.50	25.551		
7,300.0	7,233.4	7,205.9	7,205.9	27.1	12.6	-12.36	306.0	44.8	958.2	920.2	38.02	25.205		
7,400.0	7,333.4	7,305.9	7,305.9	27.5	12.8	-11.75	306.0	44.8	958.1	919.6	38.53	24.865		
7,500.0	7,432.9	7,405.4	7,405.4	27.7	12.9	-12.00	306.0	44.8	949.5	910.4	39.03	24.324		
7,600.0	7,530.2	7,502.7	7,502.7	28.0	13.1	-12.68	306.0	44.8	927.3	887.8	39.50	23.477		
7,700.0	7,623.4	7,595.9	7,595.9	28.2	13.3	-13.89	306.0	44.8	892.2	852.3	39.92	22.349		
7,800.0	7,710.8	7,683.3	7,683.3	28.4	13.4	-15.81	306.0	44.8	844.9	804.6	40.29	20.969		
7,900.0	7,790.5	7,763.0	7,763.0	28.6	13.5	-18.76	306.0	44.8	786.4	745.8	40.61	19.365		
8,000.0	7,861.0	7,833.5	7,833.5	28.7	13.7	-23.31	306.0	44.8	718.1	677.2	40.87	17.568		
8,100.0	7,921.0	7,893.5	7,893.5	28.9	13.8	-30.42	306.0	44.8	641.5	600.4	41.09	15.614		
8,200.0	7,969.3	7,941.8	7,941.8	29.1	13.9	-41.48	306.0	44.8	558.8	517.6	41.27	13.540		
8,300.0	8,005.0	7,977.5	7,977.5	29.3	13.9	-57.30	306.0	44.8	472.5	431.0	41.46	11.398		
8,400.0	8,027.3	7,999.8	7,999.8	29.5	14.0	-75.18	306.0	44.8	385.9	344.2	41.70	9.253		
8,500.0	8,035.9	8,008.4	8,008.4	29.8	14.0	-88.90	306.0	44.8	304.2	262.0	42.16	7.215		
8,600.0	8,036.0	8,008.5	8,008.5	30.2	14.0	-90.00	306.0	44.8	236.3	193.2	43.08	5.485		
8,700.0	8,036.0	8,008.5	8,008.5	30.7	14.0	-90.00	306.0	44.8	197.9	153.4	44.45	4.451		
8,733.4	8,036.0	8,008.5	8,008.5	30.8	14.0	-90.00	306.0	44.8	195.0	150.2	44.79	4.354 CC, ES, SF		
8,800.0	8,036.0	8,008.5	8,008.5	31.2	14.0	-90.00	306.0	44.8	206.1	161.2	44.92	4.588		
8,900.0	8,036.0	8,008.5	8,008.5	31.8	14.0	-90.00	306.0	44.8	256.5	212.2	44.24	5.798		
9,000.0	8,036.0	8,008.5	8,008.5	32.5	14.0	-90.00	306.0	44.8	330.3	286.8	43.50	7.593		
9,100.0	8,036.0	8,008.5	8,008.5	33.2	14.0	-90.00	306.0	44.8	415.2	372.2	43.01	9.654		
9,200.0	8,036.0	8,008.5	8,008.5	34.0	14.0	-90.00	306.0	44.8	505.7	463.0	42.70	11.844		
9,300.0	8,036.0	8,008.5	8,008.5	34.8	14.0	-90.00	306.0	44.8	599.2	556.7	42.49	14.101		
9,400.0	8,036.0	8,008.5	8,008.5	35.7	14.0	-90.00	306.0	44.8	694.5	652.2	42.36	16.396		
9,500.0	8,036.0	8,008.5	8,008.5	36.7	14.0	-90.00	306.0	44.8	791.0	748.7	42.26	18.715		
9,600.0	8,036.0	8,008.5	8,008.5	37.7	14.0	-90.00	306.0	44.8	888.2	846.0	42.20	21.049		
9,700.0	8,036.0	8,008.5	8,008.5	38.7	14.0	-90.00	306.0	44.8	986.0	943.9	42.15	23.393		
9,800.0	8,036.0	8,008.5	8,008.5	39.8	14.0	-90.00	306.0	44.8	1,084.3	1,042.1	42.12	25.742		
9,900.0	8,036.0	8,008.5	8,008.5	40.9	14.0	-90.00	306.0	44.8	1,182.8	1,140.7	42.10	28.095		
10,000.0	8,036.0	8,008.5	8,008.5	42.0	14.0	-90.00	306.0	44.8	1,281.5	1,239.4	42.08	30.451		
10,100.0	8,036.0	8,008.5	8,008.5	43.2	14.0	-90.00	306.0	44.8	1,380.4	1,338.3	42.08	32.807		
10,200.0	8,036.0	8,008.5	8,008.5	44.4	14.0	-90.00	306.0	44.8	1,479.5	1,437.4	42.07	35.163		

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 4E-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 4E-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 #5	<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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-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	-89.94	0.0	-28.0	32.0					
100.0	100.0	84.5	84.5	0.1	0.1	-89.94	0.0	-28.0	28.0	27.8	0.26	109.212		
200.0	200.0	184.5	184.5	0.5	0.3	-89.94	0.0	-28.0	28.0	27.2	0.79	35.637 CC, ES		
300.0	300.0	284.5	284.5	0.8	0.5	114.93	0.0	-28.0	28.7	27.4	1.30	21.993		
400.0	399.8	384.0	384.0	1.2	0.6	122.78	-0.3	-28.5	31.7	29.9	1.83	17.334		
500.0	499.5	483.2	483.2	1.5	0.8	131.15	-1.6	-30.5	38.5	36.2	2.37	16.250		
600.0	598.7	582.1	582.0	1.9	1.0	137.90	-3.8	-33.8	49.4	46.4	2.92	16.880		
700.0	697.5	680.4	680.1	2.3	1.2	142.63	-6.9	-38.6	64.2	60.7	3.49	18.367		
800.0	795.6	778.1	777.5	2.8	1.4	145.77	-10.9	-44.7	82.7	78.6	4.08	20.254		
900.0	893.5	875.3	874.4	3.2	1.6	147.51	-15.8	-52.2	103.4	98.7	4.68	22.110		
1,000.0	991.3	972.4	970.8	3.7	1.9	147.94	-21.5	-61.0	124.7	119.4	5.29	23.570		
1,100.0	1,089.1	1,069.2	1,066.8	4.1	2.1	147.63	-28.2	-71.2	146.6	140.7	5.93	24.732		
1,200.0	1,186.9	1,165.6	1,162.4	4.6	2.4	146.86	-35.7	-82.6	169.0	162.5	6.58	25.671		
1,300.0	1,284.8	1,261.8	1,257.3	5.0	2.7	145.82	-44.0	-95.4	192.1	184.9	7.26	26.450		
1,400.0	1,382.6	1,358.2	1,352.2	5.5	3.0	144.63	-53.2	-109.4	215.8	207.9	7.96	27.121		
1,500.0	1,480.4	1,455.2	1,447.7	6.0	3.3	143.61	-62.5	-123.7	239.7	231.0	8.66	27.669		
1,600.0	1,578.3	1,552.2	1,543.2	6.4	3.6	142.78	-71.9	-138.0	263.6	254.3	9.37	28.129		
1,700.0	1,676.1	1,649.2	1,638.7	6.9	4.0	142.09	-81.2	-152.4	287.6	277.5	10.09	28.519		
1,800.0	1,773.9	1,746.3	1,734.2	7.4	4.3	141.50	-90.6	-166.7	311.6	300.8	10.80	28.854		
1,900.0	1,871.7	1,843.3	1,829.7	7.9	4.6	141.00	-99.9	-181.0	335.7	324.1	11.52	29.145		
2,000.0	1,969.6	1,940.3	1,925.3	8.3	5.0	140.56	-109.3	-195.3	359.7	347.5	12.24	29.399		
2,100.0	2,067.4	2,037.4	2,020.8	8.8	5.3	140.18	-118.6	-209.6	383.8	370.8	12.96	29.624		
2,200.0	2,165.2	2,134.4	2,116.3	9.3	5.7	139.84	-128.0	-223.9	407.9	394.2	13.68	29.823		
2,300.0	2,263.1	2,231.4	2,211.8	9.8	6.0	139.54	-137.3	-238.2	432.0	417.6	14.40	30.002		
2,400.0	2,360.9	2,328.4	2,307.3	10.2	6.3	139.28	-146.6	-252.5	456.1	441.0	15.12	30.162		
2,500.0	2,458.7	2,425.5	2,402.8	10.7	6.7	139.04	-156.0	-266.8	480.2	464.4	15.85	30.307		
2,600.0	2,556.6	2,522.5	2,498.3	11.2	7.0	138.82	-165.3	-281.1	504.4	487.8	16.57	30.438		
2,700.0	2,654.4	2,619.5	2,593.8	11.7	7.4	138.62	-174.7	-295.4	528.5	511.2	17.29	30.558		
2,800.0	2,752.2	2,716.6	2,689.4	12.1	7.7	138.44	-184.0	-309.7	552.6	534.6	18.02	30.668		
2,900.0	2,850.0	2,813.6	2,784.9	12.6	8.0	138.28	-193.4	-324.0	576.8	558.0	18.74	30.769		
3,000.0	2,947.9	2,910.6	2,880.4	13.1	8.4	138.12	-202.7	-338.3	600.9	581.4	19.47	30.862		
3,100.0	3,045.7	3,007.6	2,975.9	13.6	8.7	137.98	-212.1	-352.6	625.1	604.9	20.20	30.949		
3,200.0	3,143.5	3,104.7	3,071.4	14.0	9.1	137.85	-221.4	-366.9	649.2	628.3	20.92	31.029		
3,300.0	3,241.4	3,201.7	3,166.9	14.5	9.4	137.73	-230.8	-381.2	673.4	651.7	21.65	31.103		
3,400.0	3,339.2	3,298.7	3,262.4	15.0	9.8	137.62	-240.1	-395.5	697.5	675.2	22.38	31.172		
3,500.0	3,437.1	3,395.8	3,358.0	15.5	10.1	137.61	-249.5	-409.9	721.6	698.5	23.10	31.233		
3,600.0	3,535.4	3,493.3	3,453.9	15.9	10.4	137.67	-258.9	-424.2	743.7	719.9	23.81	31.230		
3,700.0	3,634.4	3,591.2	3,550.3	16.3	10.8	137.52	-268.3	-438.7	763.3	738.8	24.50	31.152		
3,800.0	3,733.7	3,689.4	3,647.0	16.7	11.1	137.19	-277.8	-453.1	780.5	755.3	25.17	31.006		
3,900.0	3,833.5	3,787.8	3,743.8	17.1	11.5	136.67	-287.2	-467.7	795.2	769.4	25.82	30.803		
4,000.0	3,933.4	3,886.3	3,840.8	17.4	11.8	135.98	-296.7	-482.2	807.6	781.1	26.43	30.552		
4,100.0	4,033.4	3,984.7	3,937.7	17.7	12.2	-66.56	-306.2	-496.7	817.8	790.8	27.00	30.291		
4,200.0	4,133.4	4,083.2	4,034.6	17.9	12.5	-67.56	-315.7	-511.2	827.7	800.2	27.54	30.053		
4,300.0	4,233.4	4,181.6	4,131.5	18.2	12.9	-68.55	-325.2	-525.7	837.9	809.8	28.08	29.838		
4,400.0	4,333.4	4,280.1	4,228.4	18.5	13.2	-69.51	-334.7	-540.2	848.3	819.7	28.62	29.644		
4,500.0	4,433.4	4,378.5	4,325.3	18.7	13.6	-70.44	-344.1	-554.7	859.0	829.9	29.15	29.469		
4,600.0	4,533.4	4,476.9	4,422.2	19.0	13.9	-71.36	-353.6	-569.3	869.9	840.2	29.68	29.312		
4,700.0	4,633.4	4,575.4	4,519.1	19.3	14.3	-72.25	-363.1	-583.8	881.0	850.8	30.20	29.171		
4,800.0	4,733.4	4,673.8	4,616.0	19.6	14.6	-73.12	-372.6	-598.3	892.3	861.6	30.72	29.045		
4,900.0	4,833.4	4,772.2	4,712.9	19.8	15.0	-73.97	-382.1	-612.8	903.8	872.6	31.24	28.933		
5,000.0	4,933.4	4,870.7	4,809.8	20.1	15.3	-74.79	-391.6	-627.3	915.5	883.8	31.75	28.833		
5,100.0	5,033.4	4,969.1	4,906.7	20.4	15.7	-75.60	-401.0	-641.8	927.4	895.2	32.26	28.745		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-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	5,133.4	5,067.6	5,003.6	20.7	16.0	-76.39	-410.5	-656.3	939.5	906.7	32.77	28.668		
5,300.0	5,233.4	5,166.0	5,100.5	21.0	16.4	-77.15	-420.0	-670.8	951.7	918.5	33.28	28.600		
5,400.0	5,333.4	5,264.4	5,197.4	21.3	16.7	-77.90	-429.5	-685.4	964.2	930.4	33.78	28.541		
5,500.0	5,433.4	5,362.9	5,294.3	21.6	17.1	-78.63	-439.0	-699.9	976.7	942.5	34.28	28.491		
5,600.0	5,533.4	5,461.3	5,391.2	21.9	17.4	-79.34	-448.5	-714.4	989.5	954.7	34.78	28.448		
5,700.0	5,633.4	5,559.7	5,488.1	22.2	17.8	-80.03	-457.9	-728.9	1,002.3	967.1	35.28	28.412		
5,800.0	5,733.4	5,658.2	5,585.0	22.5	18.1	-80.71	-467.4	-743.4	1,015.4	979.6	35.77	28.383		
5,900.0	5,833.4	5,756.6	5,681.9	22.8	18.5	-81.36	-476.9	-757.9	1,028.5	992.2	36.27	28.359		
6,000.0	5,933.4	5,855.0	5,778.8	23.1	18.8	-82.00	-486.4	-772.4	1,041.8	1,005.0	36.76	28.341		
6,100.0	6,033.4	5,953.5	5,875.7	23.4	19.2	-82.63	-495.9	-786.9	1,055.2	1,018.0	37.25	28.328		
6,200.0	6,133.4	6,051.9	5,972.6	23.7	19.5	-83.24	-505.4	-801.5	1,068.7	1,031.0	37.74	28.319		
6,300.0	6,233.4	6,150.4	6,069.5	24.0	19.9	-83.83	-514.8	-816.0	1,082.4	1,044.2	38.23	28.314		
6,400.0	6,333.4	6,248.8	6,166.4	24.3	20.2	-84.41	-524.3	-830.5	1,096.2	1,057.4	38.71	28.314		
6,500.0	6,433.4	6,347.2	6,263.3	24.6	20.6	-84.98	-533.8	-845.0	1,110.0	1,070.8	39.20	28.316		
6,600.0	6,533.4	6,445.7	6,360.2	24.9	20.9	-85.53	-543.3	-859.5	1,124.0	1,084.3	39.69	28.322		
6,700.0	6,633.4	6,544.1	6,457.1	25.2	21.3	-86.07	-552.8	-874.0	1,138.1	1,097.9	40.17	28.331		
6,800.0	6,733.4	6,642.5	6,554.0	25.5	21.6	-86.59	-562.2	-888.5	1,152.3	1,111.6	40.66	28.343		
6,900.0	6,833.4	6,741.0	6,650.9	25.9	22.0	-87.11	-571.7	-903.1	1,166.5	1,125.4	41.14	28.356		
7,000.0	6,933.4	6,839.4	6,747.8	26.2	22.3	-87.61	-581.2	-917.6	1,180.9	1,139.3	41.62	28.372		
7,100.0	7,033.4	6,937.9	6,844.7	26.5	22.7	-88.10	-590.7	-932.1	1,195.3	1,153.2	42.10	28.390		
7,200.0	7,133.4	7,036.3	6,941.6	26.8	23.0	-88.57	-600.2	-946.6	1,209.9	1,167.3	42.59	28.410		
7,300.0	7,233.4	7,134.7	7,038.5	27.1	23.4	-89.04	-609.7	-961.1	1,224.5	1,181.4	43.07	28.432		
7,400.0	7,333.4	7,233.2	7,135.3	27.5	23.7	-88.72	-619.1	-975.6	1,239.2	1,195.6	43.55	28.455		
7,500.0	7,432.9	7,330.8	7,231.7	27.7	24.0	-88.26	-626.1	-990.0	1,253.8	1,209.9	43.90	28.562		
7,600.0	7,530.2	7,431.0	7,330.2	28.0	24.2	-87.77	-617.6	-1,004.8	1,268.1	1,224.1	44.05	28.788		
7,700.0	7,623.4	7,534.0	7,428.5	28.2	24.3	-87.17	-591.0	-1,019.5	1,281.7	1,237.7	44.04	29.104		
7,800.0	7,710.8	7,639.3	7,522.4	28.4	24.2	-86.47	-545.9	-1,033.6	1,294.3	1,250.4	43.89	29.487		
7,900.0	7,790.5	7,745.8	7,607.5	28.6	24.0	-85.66	-483.4	-1,046.3	1,305.5	1,261.9	43.66	29.905		
8,000.0	7,861.0	7,852.5	7,679.9	28.7	23.8	-84.77	-405.9	-1,057.2	1,315.2	1,271.8	43.39	30.312		
8,100.0	7,921.0	7,958.3	7,736.3	28.9	23.6	-83.82	-317.0	-1,065.6	1,323.0	1,279.9	43.16	30.652		
8,200.0	7,969.3	8,062.0	7,775.1	29.1	23.5	-82.83	-221.1	-1,071.4	1,329.0	1,286.0	43.05	30.872		
8,300.0	8,005.0	8,162.8	7,795.8	29.3	23.4	-81.83	-122.7	-1,074.5	1,333.2	1,290.1	43.11	30.926		
8,400.0	8,027.3	8,260.8	7,800.0	29.5	23.5	-80.89	-24.8	-1,075.2	1,335.5	1,292.1	43.39	30.782		
8,500.0	8,035.9	8,360.4	7,800.0	29.8	23.6	-80.49	74.7	-1,075.2	1,335.8	1,291.9	43.95	30.395		
8,600.0	8,036.0	8,460.4	7,800.0	30.2	23.9	-80.49	174.7	-1,075.2	1,334.8	1,290.0	44.78	29.805		
8,700.0	8,036.0	8,560.4	7,800.0	30.7	24.3	-80.48	274.7	-1,075.2	1,333.7	1,287.8	45.87	29.074		
8,800.0	8,036.0	8,660.4	7,800.0	31.2	24.8	-80.48	374.7	-1,075.2	1,332.6	1,285.4	47.19	28.237		
8,900.0	8,036.0	8,760.4	7,800.0	31.8	25.5	-80.47	474.7	-1,075.2	1,331.6	1,282.9	48.72	27.331		
9,000.0	8,036.0	8,860.3	7,800.0	32.5	26.2	-80.46	574.7	-1,075.2	1,330.5	1,280.1	50.43	26.383		
9,100.0	8,036.0	8,960.3	7,800.0	33.2	27.0	-80.45	674.7	-1,075.2	1,329.4	1,277.1	52.30	25.421		
9,200.0	8,036.0	9,060.3	7,800.0	34.0	28.0	-80.44	774.7	-1,075.2	1,328.4	1,274.1	54.31	24.461		
9,300.0	8,036.0	9,160.3	7,800.0	34.8	29.0	-80.44	874.7	-1,075.2	1,327.3	1,270.9	56.44	23.519		
9,400.0	8,036.0	9,260.3	7,800.0	35.7	30.0	-80.43	974.7	-1,075.2	1,326.2	1,267.6	58.67	22.603		
9,500.0	8,036.0	9,360.3	7,800.0	36.7	31.2	-80.42	1,074.7	-1,075.2	1,325.2	1,264.2	61.01	21.722		
9,600.0	8,036.0	9,460.3	7,800.0	37.7	32.3	-80.41	1,174.7	-1,075.2	1,324.1	1,260.7	63.42	20.878		
9,700.0	8,036.0	9,560.3	7,800.0	38.7	33.6	-80.41	1,274.6	-1,075.2	1,323.0	1,257.1	65.91	20.073		
9,800.0	8,036.0	9,660.3	7,800.0	39.8	34.9	-80.40	1,374.6	-1,075.2	1,322.0	1,253.5	68.46	19.309		
9,900.0	8,036.0	9,760.3	7,800.0	40.9	36.2	-80.39	1,474.6	-1,075.2	1,320.9	1,249.8	71.08	18.584		
10,000.0	8,036.0	9,860.3	7,800.0	42.0	37.5	-80.38	1,574.6	-1,075.2	1,319.8	1,246.1	73.74	17.898		
10,100.0	8,036.0	9,960.3	7,800.0	43.2	38.9	-80.37	1,674.6	-1,075.2	1,318.7	1,242.3	76.45	17.249		
10,200.0	8,036.0	10,060.3	7,800.0	44.4	40.3	-80.37	1,774.6	-1,075.2	1,317.7	1,238.5	79.21	16.636		
10,300.0	8,036.0	10,160.3	7,800.0	45.6	41.8	-80.36	1,874.6	-1,075.2	1,316.6	1,234.6	82.00	16.056		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-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						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		
10,400.0	8,036.0	10,260.3	7,800.0	46.8	43.3	-80.35	1,974.6	-1,075.2	1,315.5	1,230.7	84.83	15.509		
10,500.0	8,036.0	10,360.3	7,800.0	48.1	44.7	-80.34	2,074.6	-1,075.2	1,314.5	1,226.8	87.68	14.991		
10,600.0	8,036.0	10,460.3	7,800.0	49.4	46.3	-80.33	2,174.6	-1,075.2	1,313.4	1,222.8	90.57	14.501		
10,700.0	8,036.0	10,560.2	7,800.0	50.7	47.8	-80.33	2,274.6	-1,075.2	1,312.3	1,218.9	93.48	14.038		
10,800.0	8,036.0	10,660.2	7,800.0	52.0	49.3	-80.32	2,374.6	-1,075.2	1,311.3	1,214.8	96.42	13.600		
10,900.0	8,036.0	10,760.2	7,800.0	53.3	50.9	-80.31	2,474.6	-1,075.2	1,310.2	1,210.8	99.38	13.184		
11,000.0	8,036.0	10,860.2	7,800.0	54.7	52.4	-80.30	2,574.6	-1,075.2	1,309.1	1,206.8	102.35	12.790		
11,100.0	8,036.0	10,960.2	7,800.0	56.0	54.0	-80.29	2,674.6	-1,075.2	1,308.1	1,202.7	105.35	12.416		
11,200.0	8,036.0	11,060.2	7,800.0	57.4	55.6	-80.29	2,774.6	-1,075.2	1,307.0	1,198.6	108.36	12.061		
11,300.0	8,036.0	11,160.2	7,800.0	58.8	57.2	-80.28	2,874.6	-1,075.2	1,305.9	1,194.5	111.39	11.724		
11,400.0	8,036.0	11,260.2	7,800.0	60.2	58.8	-80.27	2,974.5	-1,075.2	1,304.9	1,190.4	114.43	11.403		
11,500.0	8,036.0	11,360.2	7,800.0	61.6	60.4	-80.26	3,074.5	-1,075.2	1,303.8	1,186.3	117.49	11.097		
11,600.0	8,036.0	11,460.2	7,800.0	63.0	62.0	-80.25	3,174.5	-1,075.2	1,302.7	1,182.1	120.56	10.806		
11,700.0	8,036.0	11,560.2	7,800.0	64.4	63.7	-80.23	3,274.5	-1,075.2	1,300.5	1,176.9	123.64	10.519		
11,800.0	8,036.0	11,660.1	7,800.0	65.8	65.3	-80.20	3,374.4	-1,075.2	1,296.6	1,169.9	126.74	10.230		
11,900.0	8,036.0	11,759.9	7,800.0	67.3	66.9	-80.14	3,474.3	-1,075.2	1,291.0	1,161.1	129.87	9.941		
12,000.0	8,036.0	11,859.6	7,800.0	68.8	68.6	-80.08	3,574.0	-1,075.2	1,283.7	1,150.7	133.00	9.652		
12,100.0	8,036.0	11,959.2	7,800.0	70.3	70.2	-79.99	3,673.6	-1,075.2	1,274.6	1,138.5	136.15	9.362		
12,200.0	8,036.0	12,058.6	7,800.0	71.8	71.9	-79.88	3,773.0	-1,075.2	1,263.9	1,124.6	139.31	9.073		
12,300.0	8,036.0	12,157.8	7,800.0	73.4	73.5	-79.76	3,872.2	-1,075.2	1,251.4	1,109.0	142.47	8.784		
12,400.0	8,036.0	12,256.9	7,800.0	75.0	75.2	-79.66	3,971.3	-1,075.2	1,238.3	1,092.6	145.65	8.502		
12,500.0	8,036.0	12,356.1	7,800.0	76.5	76.8	-79.55	4,070.5	-1,075.2	1,225.8	1,077.0	148.82	8.237		
12,600.0	8,036.0	12,455.3	7,800.0	78.1	78.5	-79.45	4,169.7	-1,075.2	1,213.3	1,061.3	152.01	7.982		
12,700.0	8,036.0	12,554.5	7,800.0	79.7	80.2	-79.34	4,268.8	-1,075.2	1,200.9	1,045.7	155.19	7.738		
12,800.0	8,036.0	12,653.7	7,800.0	81.2	81.8	-79.22	4,368.0	-1,075.2	1,188.4	1,030.0	158.38	7.504		
12,900.0	8,036.0	12,752.9	7,800.0	82.8	83.5	-79.11	4,467.2	-1,075.2	1,176.0	1,014.4	161.57	7.278		
13,000.0	8,036.0	12,852.1	7,800.0	84.4	85.2	-78.99	4,566.4	-1,075.2	1,163.5	998.7	164.76	7.062		
13,100.0	8,036.0	12,951.3	7,800.0	86.0	86.8	-78.87	4,665.6	-1,075.2	1,151.1	983.1	167.95	6.853		
13,200.0	8,036.0	13,050.5	7,800.0	87.6	88.5	-78.75	4,764.8	-1,075.2	1,138.6	967.5	171.15	6.653		
13,300.0	8,036.0	13,149.7	7,800.0	89.2	90.2	-78.62	4,864.0	-1,075.2	1,126.2	951.8	174.34	6.460		
13,400.0	8,036.0	13,248.9	7,800.0	90.8	91.9	-78.49	4,963.2	-1,075.2	1,113.8	936.2	177.54	6.273		
13,500.0	8,036.0	13,348.0	7,800.0	92.4	93.6	-78.36	5,062.4	-1,075.2	1,101.3	920.6	180.73	6.094		
13,600.0	8,036.0	13,447.2	7,800.0	94.1	95.2	-78.22	5,161.6	-1,075.2	1,088.9	905.0	183.92	5.920		
13,700.0	8,036.0	13,546.4	7,800.0	95.7	96.9	-78.09	5,260.8	-1,075.2	1,076.5	889.4	187.11	5.753		
13,800.0	8,036.0	13,645.6	7,800.0	97.3	98.6	-77.95	5,360.0	-1,075.2	1,064.1	873.8	190.30	5.592		
13,900.0	8,036.0	13,745.0	7,800.0	98.9	100.3	-77.84	5,459.3	-1,075.2	1,052.9	859.4	193.49	5.441		
14,000.0	8,036.0	13,844.5	7,800.0	100.5	102.0	-77.75	5,558.8	-1,075.2	1,043.3	846.7	196.68	5.305		
14,100.0	8,036.0	13,944.2	7,800.0	102.1	103.7	-77.67	5,658.5	-1,075.2	1,035.5	835.6	199.87	5.181		
14,200.0	8,036.0	14,044.0	7,800.0	103.7	105.4	-77.61	5,758.3	-1,075.2	1,029.4	826.3	203.06	5.069		
14,300.0	8,036.0	14,143.9	7,800.0	105.3	107.1	-77.57	5,858.2	-1,075.2	1,024.9	818.7	206.25	4.969		
14,400.0	8,036.0	14,243.8	7,800.0	106.8	108.8	-77.54	5,958.2	-1,075.2	1,022.2	812.8	209.44	4.881		
14,500.0	8,036.0	14,343.8	7,800.0	108.3	110.6	-77.53	6,058.2	-1,075.2	1,021.2	808.6	212.63	4.803		
14,509.9	8,036.0	14,353.7	7,800.0	108.5	110.7	-77.53	6,068.1	-1,075.2	1,021.2	808.2	212.95	4.795		
14,600.0	8,036.0	14,443.8	7,800.0	109.8	112.3	-77.54	6,158.2	-1,075.2	1,021.9	806.1	215.82	4.735		
14,700.0	8,036.0	14,543.8	7,800.0	111.3	114.0	-77.56	6,258.1	-1,075.2	1,023.6	804.6	219.01	4.674		
14,800.0	8,036.0	14,643.8	7,800.0	112.8	115.7	-77.58	6,358.1	-1,075.2	1,025.3	803.1	222.21	4.614		
14,900.0	8,036.0	14,743.8	7,800.0	114.3	117.4	-77.60	6,458.1	-1,075.2	1,027.0	801.6	225.40	4.556		
15,000.0	8,036.0	14,843.7	7,800.0	115.9	119.1	-77.62	6,558.1	-1,075.2	1,028.7	800.1	228.60	4.500		
15,100.0	8,036.0	14,943.7	7,800.0	117.4	120.9	-77.64	6,658.1	-1,075.2	1,030.4	798.6	231.80	4.445		
15,200.0	8,036.0	15,043.7	7,800.0	118.9	122.6	-77.66	6,758.1	-1,075.2	1,032.1	797.1	235.01	4.392		
15,300.0	8,036.0	15,143.7	7,800.0	120.4	124.3	-77.68	6,858.0	-1,075.2	1,033.8	795.6	238.21	4.340		
15,400.0	8,036.0	15,243.7	7,800.0	121.9	126.0	-77.70	6,958.0	-1,075.2	1,035.5	794.1	241.42	4.289		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4B-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	8,036.0	15,343.7	7,800.0	123.4	127.8	-77.72	7,058.0	-1,075.2	1,037.2	792.6	244.63	4.240		
15,600.0	8,036.0	15,443.7	7,800.0	124.9	129.5	-77.74	7,158.0	-1,075.2	1,038.9	791.1	247.84	4.192		
15,700.0	8,036.0	15,543.6	7,800.0	126.4	131.2	-77.76	7,258.0	-1,075.2	1,040.6	789.6	251.06	4.145		
15,800.0	8,036.0	15,643.6	7,800.0	128.0	132.9	-77.79	7,358.0	-1,075.2	1,042.3	788.1	254.27	4.099		
15,900.0	8,036.0	15,743.6	7,800.0	129.5	134.7	-77.81	7,458.0	-1,075.2	1,044.0	786.5	257.49	4.055		
16,000.0	8,036.0	15,843.6	7,800.0	131.0	136.4	-77.83	7,557.9	-1,075.2	1,045.7	785.0	260.71	4.011		
16,100.0	8,036.0	15,943.6	7,800.0	132.5	138.1	-77.85	7,657.9	-1,075.2	1,047.4	783.5	263.93	3.969		
16,200.0	8,036.0	16,043.6	7,800.0	134.1	139.8	-77.87	7,757.9	-1,075.2	1,049.1	782.0	267.15	3.927		
16,300.0	8,036.0	16,143.5	7,800.0	135.6	141.6	-77.89	7,857.9	-1,075.2	1,050.9	780.5	270.38	3.887		
16,400.0	8,036.0	16,243.5	7,800.0	137.1	143.3	-77.91	7,957.9	-1,075.2	1,052.6	779.0	273.61	3.847		
16,500.0	8,036.0	16,343.5	7,800.0	138.6	145.0	-77.93	8,057.9	-1,075.2	1,054.3	777.4	276.83	3.808		
16,600.0	8,036.0	16,443.5	7,800.0	140.2	146.8	-77.95	8,157.8	-1,075.2	1,056.0	775.9	280.06	3.770		
16,700.0	8,036.0	16,543.5	7,800.0	141.7	148.5	-77.97	8,257.8	-1,075.2	1,057.7	774.4	283.29	3.734		
16,800.0	8,036.0	16,643.5	7,800.0	143.2	150.2	-77.98	8,357.8	-1,075.2	1,059.4	772.9	286.53	3.697		
16,900.0	8,036.0	16,743.5	7,800.0	144.7	152.0	-78.00	8,457.8	-1,075.2	1,061.1	771.3	289.76	3.662		
17,000.0	8,036.0	16,843.4	7,800.0	146.3	153.7	-78.02	8,557.8	-1,075.2	1,062.8	769.8	292.99	3.627		
17,100.0	8,036.0	16,943.4	7,800.0	147.8	155.4	-78.04	8,657.8	-1,075.2	1,064.5	768.3	296.23	3.594		
17,200.0	8,036.0	16,944.6	7,800.0	149.3	155.4	-78.04	8,658.9	-1,075.2	1,070.8	772.2	298.55	3.587 SF		
17,300.0	8,036.0	16,944.6	7,800.0	150.9	155.4	-78.04	8,658.9	-1,075.2	1,086.3	787.9	298.39	3.640		
17,400.0	8,036.0	16,944.6	7,800.0	152.4	155.4	-78.04	8,658.9	-1,075.2	1,110.6	814.6	295.97	3.752		
17,500.0	8,036.0	16,944.6	7,800.0	154.0	155.4	-78.04	8,658.9	-1,075.2	1,143.2	851.6	291.61	3.920		
17,600.0	8,036.0	16,944.6	7,800.0	155.5	155.4	-78.04	8,658.9	-1,075.2	1,183.3	897.6	285.73	4.141		
17,700.0	8,036.0	16,944.6	7,800.0	157.0	155.4	-78.04	8,658.9	-1,075.2	1,230.3	951.5	278.76	4.413		
17,800.0	8,036.0	16,944.6	7,800.0	158.6	155.4	-78.04	8,658.9	-1,075.2	1,283.4	1,012.3	271.08	4.734		
17,900.0	8,036.0	16,944.6	7,800.0	159.8	155.4	-78.04	8,658.9	-1,075.2	1,341.8	1,078.9	262.89	5.104		
17,909.9	8,036.0	16,944.6	7,800.0	159.9	155.4	-78.04	8,658.9	-1,075.2	1,347.9	1,085.8	262.07	5.143		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	-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	77.511		
200.0	200.0	200.0	200.0	0.5	0.3	-89.95	0.0	-19.6	19.6	18.8	0.79	24.946	CC, ES	
300.0	300.0	300.0	300.0	0.8	0.5	116.26	0.0	-19.6	20.3	19.0	1.30	15.568		
400.0	399.8	399.8	399.8	1.2	0.6	127.92	0.0	-19.6	23.1	21.3	1.83	12.648		
500.0	499.5	499.3	499.3	1.5	0.8	139.80	-0.5	-20.3	29.6	27.2	2.36	12.513		
600.0	598.7	598.4	598.4	1.9	1.0	147.45	-2.2	-22.2	40.2	37.3	2.91	13.813		
700.0	697.5	697.2	697.0	2.3	1.2	151.74	-5.0	-25.4	54.6	51.1	3.47	15.736		
800.0	795.6	795.4	795.1	2.8	1.4	154.03	-8.9	-29.9	72.4	68.4	4.05	17.901		
900.0	893.5	893.3	892.7	3.2	1.6	154.89	-13.8	-35.7	92.0	87.4	4.62	19.894		
1,000.0	991.3	991.2	990.1	3.7	1.8	154.57	-19.9	-42.7	111.7	106.5	5.22	21.386		
1,100.0	1,089.1	1,088.9	1,087.2	4.1	2.0	153.62	-27.0	-51.0	131.7	125.8	5.85	22.510		
1,200.0	1,186.9	1,186.5	1,184.0	4.6	2.3	152.28	-35.1	-60.5	151.8	145.3	6.50	23.366		
1,300.0	1,284.8	1,284.0	1,280.5	5.0	2.6	150.74	-44.3	-71.1	172.3	165.2	7.17	24.044		
1,400.0	1,382.6	1,381.8	1,377.2	5.5	2.8	149.44	-53.6	-82.0	193.0	185.1	7.85	24.592		
1,500.0	1,480.4	1,479.6	1,474.0	6.0	3.1	148.40	-63.0	-92.8	213.7	205.1	8.53	25.044		
1,600.0	1,578.3	1,577.3	1,570.7	6.4	3.4	147.54	-72.3	-103.7	234.5	225.2	9.22	25.423		
1,700.0	1,676.1	1,675.1	1,667.4	6.9	3.7	146.81	-81.7	-114.6	255.3	245.4	9.92	25.744		
1,800.0	1,773.9	1,772.8	1,764.1	7.4	4.0	146.20	-91.1	-125.5	276.1	265.5	10.61	26.019		
1,900.0	1,871.7	1,870.6	1,860.8	7.9	4.3	145.68	-100.4	-136.3	297.0	285.7	11.31	26.259		
2,000.0	1,969.6	1,968.4	1,957.5	8.3	4.6	145.22	-109.8	-147.2	317.9	305.9	12.01	26.468		
2,100.0	2,067.4	2,066.1	2,054.2	8.8	4.9	144.82	-119.1	-158.1	338.8	326.1	12.71	26.652		
2,200.0	2,165.2	2,163.9	2,150.9	9.3	5.2	144.46	-128.5	-169.0	359.7	346.3	13.41	26.816		
2,300.0	2,263.1	2,261.7	2,247.6	9.8	5.5	144.15	-137.8	-179.9	380.7	366.5	14.12	26.962		
2,400.0	2,360.9	2,359.4	2,344.3	10.2	5.8	143.86	-147.2	-190.7	401.6	386.8	14.82	27.094		
2,500.0	2,458.7	2,457.2	2,441.0	10.7	6.1	143.61	-156.5	-201.6	422.6	407.0	15.53	27.213		
2,600.0	2,556.6	2,554.9	2,537.7	11.2	6.4	143.38	-165.9	-212.5	443.5	427.3	16.23	27.321		
2,700.0	2,654.4	2,652.7	2,634.4	11.7	6.7	143.17	-175.3	-223.4	464.5	447.5	16.94	27.419		
2,800.0	2,752.2	2,750.5	2,731.1	12.1	7.0	142.98	-184.6	-234.2	485.5	467.8	17.65	27.509		
2,900.0	2,850.0	2,848.2	2,827.8	12.6	7.3	142.80	-194.0	-245.1	506.4	488.1	18.35	27.592		
3,000.0	2,947.9	2,946.0	2,924.5	13.1	7.6	142.64	-203.3	-256.0	527.4	508.4	19.06	27.668		
3,100.0	3,045.7	3,043.8	3,021.2	13.6	7.9	142.49	-212.7	-266.9	548.4	528.6	19.77	27.739		
3,200.0	3,143.5	3,141.5	3,117.9	14.0	8.2	142.35	-222.0	-277.7	569.4	548.9	20.48	27.804		
3,300.0	3,241.4	3,239.3	3,214.6	14.5	8.5	142.22	-231.4	-288.6	590.4	569.2	21.19	27.865		
3,400.0	3,339.2	3,337.1	3,311.4	15.0	8.8	142.10	-240.7	-299.5	611.4	589.5	21.90	27.922		
3,500.0	3,437.1	3,434.8	3,408.1	15.5	9.1	142.06	-250.1	-310.4	632.3	609.7	22.60	27.970		
3,600.0	3,535.4	3,533.0	3,505.2	15.9	9.4	142.04	-259.5	-321.3	651.1	627.8	23.30	27.939		
3,700.0	3,634.4	3,631.6	3,602.7	16.3	9.7	141.81	-268.9	-332.2	667.2	643.2	23.99	27.814		
3,800.0	3,733.7	3,730.4	3,700.5	16.7	10.0	141.38	-278.4	-343.2	680.7	656.0	24.66	27.605		
3,900.0	3,833.5	3,829.4	3,798.4	17.1	10.3	140.76	-287.9	-354.2	691.5	666.2	25.31	27.322		
4,000.0	3,933.4	3,928.4	3,896.3	17.4	10.6	139.95	-297.3	-365.3	699.8	673.9	25.94	26.976		
4,100.0	4,033.4	4,027.4	3,994.2	17.7	10.9	-62.70	-306.8	-376.3	705.8	679.3	26.53	26.604		
4,200.0	4,133.4	4,126.3	4,092.0	17.9	11.2	-63.79	-316.3	-387.3	711.5	684.4	27.10	26.254		
4,300.0	4,233.4	4,225.2	4,189.9	18.2	11.5	-64.86	-325.7	-398.3	717.4	689.8	27.67	25.932		
4,400.0	4,333.4	4,324.1	4,287.7	18.5	11.8	-65.91	-335.2	-409.3	723.6	695.4	28.23	25.634		
4,500.0	4,433.4	4,423.0	4,385.6	18.7	12.1	-66.94	-344.7	-420.3	730.1	701.3	28.79	25.360		
4,600.0	4,533.4	4,522.0	4,483.4	19.0	12.4	-67.96	-354.1	-431.3	736.7	707.4	29.34	25.107		
4,700.0	4,633.4	4,620.9	4,581.3	19.3	12.7	-68.95	-363.6	-442.3	743.6	713.7	29.89	24.875		
4,800.0	4,733.4	4,719.8	4,679.1	19.6	13.1	-69.93	-373.1	-453.3	750.7	720.3	30.44	24.661		
4,900.0	4,833.4	4,818.7	4,777.0	19.8	13.4	-70.89	-382.5	-464.3	758.1	727.1	30.99	24.464		
5,000.0	4,933.4	4,917.6	4,874.8	20.1	13.7	-71.83	-392.0	-475.3	765.6	734.1	31.53	24.284		
5,100.0	5,033.4	5,016.6	4,972.7	20.4	14.0	-72.76	-401.5	-486.3	773.3	741.3	32.06	24.119		

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 4E-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 4E-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 #5	<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	5,133.4	5,115.5	5,070.5	20.7	14.3	-73.66	-410.9	-497.3	781.3	748.7	32.60	23.968		
5,300.0	5,233.4	5,214.4	5,168.4	21.0	14.6	-74.55	-420.4	-508.3	789.4	756.3	33.13	23.830		
5,400.0	5,333.4	5,313.3	5,266.2	21.3	14.9	-75.42	-429.9	-519.3	797.8	764.1	33.66	23.704		
5,500.0	5,433.4	5,412.2	5,364.1	21.6	15.2	-76.27	-439.3	-530.3	806.3	772.1	34.18	23.589		
5,600.0	5,533.4	5,511.1	5,461.9	21.9	15.5	-77.10	-448.8	-541.3	814.9	780.2	34.70	23.484		
5,700.0	5,633.4	5,610.1	5,559.8	22.2	15.8	-77.92	-458.3	-552.3	823.8	788.6	35.22	23.390		
5,800.0	5,733.4	5,709.0	5,657.6	22.5	16.1	-78.72	-467.7	-563.3	832.8	797.1	35.74	23.304		
5,900.0	5,833.4	5,807.9	5,755.4	22.8	16.4	-79.50	-477.2	-574.3	842.0	805.7	36.25	23.227		
6,000.0	5,933.4	5,906.8	5,853.3	23.1	16.7	-80.26	-486.6	-585.3	851.3	814.6	36.76	23.157		
6,100.0	6,033.4	6,005.7	5,951.1	23.4	17.0	-81.01	-496.1	-596.3	860.8	823.5	37.27	23.095		
6,200.0	6,133.4	6,104.6	6,049.0	23.7	17.4	-81.74	-505.6	-607.3	870.4	832.6	37.78	23.040		
6,300.0	6,233.4	6,203.6	6,146.8	24.0	17.7	-82.46	-515.0	-618.3	880.2	841.9	38.28	22.991		
6,400.0	6,333.4	6,302.5	6,244.7	24.3	18.0	-83.16	-524.5	-629.4	890.1	851.3	38.79	22.947		
6,500.0	6,433.4	6,401.4	6,342.5	24.6	18.3	-83.84	-534.0	-640.4	900.1	860.8	39.29	22.909		
6,600.0	6,533.4	6,500.3	6,440.4	24.9	18.6	-84.51	-543.4	-651.4	910.3	870.5	39.79	22.876		
6,700.0	6,633.4	6,599.2	6,538.2	25.2	18.9	-85.17	-552.9	-662.4	920.5	880.3	40.29	22.848		
6,800.0	6,733.4	6,698.2	6,636.1	25.5	19.2	-85.81	-562.4	-673.4	930.9	890.2	40.79	22.824		
6,900.0	6,833.4	6,797.1	6,733.9	25.9	19.5	-86.44	-571.8	-684.4	941.4	900.2	41.28	22.805		
7,000.0	6,933.4	6,896.0	6,831.8	26.2	19.8	-87.05	-581.3	-695.4	952.1	910.3	41.78	22.788		
7,100.0	7,033.4	6,994.9	6,929.6	26.5	20.1	-87.65	-590.8	-706.4	962.8	920.5	42.27	22.776		
7,200.0	7,133.4	7,093.8	7,027.5	26.8	20.4	-88.24	-600.2	-717.4	973.6	930.9	42.77	22.766		
7,300.0	7,233.4	7,192.7	7,125.3	27.1	20.7	-88.81	-609.7	-728.4	984.5	941.3	43.26	22.760		
7,400.0	7,333.4	7,291.6	7,223.1	27.5	21.0	-88.64	-619.2	-739.4	995.6	951.8	43.75	22.757		
7,500.0	7,432.9	7,385.6	7,316.2	27.7	21.3	-88.61	-626.0	-750.0	1,006.7	962.6	44.09	22.832		
7,600.0	7,530.2	7,478.3	7,408.1	28.0	21.4	-88.63	-621.7	-761.0	1,018.3	974.0	44.24	23.019		
7,700.0	7,623.4	7,573.1	7,500.6	28.2	21.5	-88.68	-605.0	-772.7	1,030.2	986.0	44.24	23.288		
7,800.0	7,710.8	7,670.2	7,592.2	28.4	21.5	-88.74	-575.3	-785.1	1,042.4	998.3	44.13	23.620		
7,900.0	7,790.5	7,770.0	7,681.1	28.6	21.4	-88.83	-532.0	-797.8	1,054.5	1,010.5	43.95	23.993		
8,000.0	7,861.0	7,872.8	7,765.5	28.7	21.2	-88.95	-474.9	-810.7	1,066.3	1,022.5	43.75	24.375		
8,100.0	7,921.0	7,978.8	7,843.0	28.9	21.0	-89.09	-403.9	-823.5	1,077.6	1,034.0	43.58	24.726		
8,200.0	7,969.3	8,088.1	7,911.0	29.1	20.8	-89.25	-319.4	-835.9	1,088.0	1,044.5	43.51	25.003		
8,300.0	8,005.0	8,200.9	7,966.9	29.3	20.7	-89.43	-222.3	-847.6	1,097.3	1,053.7	43.61	25.160		
8,400.0	8,027.3	8,316.9	8,007.8	29.5	20.8	-89.62	-114.3	-858.1	1,105.3	1,061.4	43.95	25.149		
8,500.0	8,035.9	8,436.1	8,031.2	29.8	21.0	-89.81	2.0	-866.9	1,111.7	1,067.1	44.52	24.969		
8,600.0	8,036.0	8,550.7	8,036.0	30.2	21.3	-90.00	116.3	-873.5	1,116.3	1,070.9	45.39	24.593		
8,700.0	8,036.0	8,650.6	8,036.0	30.7	21.8	-90.00	216.1	-878.7	1,120.4	1,073.9	46.48	24.105		
8,800.0	8,036.0	8,750.5	8,036.0	31.2	22.3	-90.00	315.8	-883.9	1,124.6	1,076.8	47.80	23.527		
8,900.0	8,036.0	8,850.5	8,036.0	31.8	23.0	-90.00	415.6	-889.2	1,128.7	1,079.4	49.32	22.887		
9,000.0	8,036.0	8,950.4	8,036.0	32.5	23.8	-90.00	515.4	-894.4	1,132.9	1,081.8	51.05	22.193		
9,100.0	8,036.0	9,050.3	8,036.0	33.2	24.8	-90.00	615.2	-899.6	1,137.0	1,084.1	52.93	21.483		
9,200.0	8,036.0	9,150.2	8,036.0	34.0	25.7	-90.00	715.0	-904.8	1,141.2	1,086.2	54.95	20.767		
9,300.0	8,036.0	9,250.1	8,036.0	34.8	26.8	-90.00	814.7	-910.1	1,145.3	1,088.2	57.10	20.058		
9,400.0	8,036.0	9,350.0	8,036.0	35.7	28.0	-90.00	914.5	-915.3	1,149.5	1,090.1	59.36	19.365		
9,500.0	8,036.0	9,449.9	8,036.0	36.7	29.2	-90.00	1,014.3	-920.5	1,153.6	1,091.9	61.71	18.693		
9,600.0	8,036.0	9,549.9	8,036.0	37.7	30.4	-90.00	1,114.1	-925.8	1,157.8	1,093.6	64.15	18.047		
9,700.0	8,036.0	9,649.8	8,036.0	38.7	31.7	-90.00	1,213.8	-931.0	1,161.9	1,095.3	66.67	17.428		
9,800.0	8,036.0	9,749.7	8,036.0	39.8	33.1	-90.00	1,313.6	-936.2	1,166.1	1,096.8	69.25	16.838		
9,900.0	8,036.0	9,849.6	8,036.0	40.9	34.5	-90.00	1,413.4	-941.4	1,170.2	1,098.3	71.89	16.277		
10,000.0	8,036.0	9,949.5	8,036.0	42.0	35.9	-90.00	1,513.2	-946.7	1,174.4	1,099.8	74.59	15.745		
10,100.0	8,036.0	10,049.4	8,036.0	43.2	37.3	-90.00	1,612.9	-951.9	1,178.5	1,101.2	77.33	15.240		
10,200.0	8,036.0	10,149.3	8,036.0	44.4	38.8	-90.00	1,712.7	-957.1	1,182.7	1,102.6	80.12	14.762		
10,300.0	8,036.0	10,249.3	8,036.0	45.6	40.3	-90.00	1,812.5	-962.4	1,186.8	1,103.9	82.94	14.309		

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 4E-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 4E-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 #5	<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				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	8,036.0	10,349.2	8,036.0	46.8	41.8	-90.00	1,912.3	-967.6	1,191.0	1,105.2	85.80	13.881		
10,500.0	8,036.0	10,472.8	8,036.0	48.1	43.7	-90.00	2,035.8	-972.9	1,194.2	1,105.4	88.84	13.442		
10,600.0	8,036.0	10,599.1	8,036.0	49.4	45.6	-90.00	2,162.1	-975.6	1,195.3	1,103.4	91.90	13.007		
10,700.0	8,036.0	10,711.6	8,036.0	50.7	47.3	-90.00	2,274.6	-976.0	1,194.5	1,099.6	94.90	12.587		
10,800.0	8,036.0	10,811.6	8,036.0	52.0	48.9	-90.00	2,374.6	-976.0	1,193.4	1,095.5	97.87	12.193		
10,900.0	8,036.0	10,911.6	8,036.0	53.3	50.4	-90.00	2,474.6	-976.0	1,192.3	1,091.4	100.87	11.821		
11,000.0	8,036.0	11,011.6	8,036.0	54.7	52.0	-90.00	2,574.6	-976.0	1,191.2	1,087.3	103.88	11.467		
11,100.0	8,036.0	11,111.6	8,036.0	56.0	53.6	-90.00	2,674.6	-976.0	1,190.1	1,083.2	106.92	11.132		
11,200.0	8,036.0	11,211.6	8,036.0	57.4	55.2	-90.00	2,774.6	-976.0	1,189.1	1,079.1	109.97	10.813		
11,300.0	8,036.0	11,311.6	8,036.0	58.8	56.8	-90.00	2,874.6	-976.0	1,188.0	1,074.9	113.03	10.510		
11,400.0	8,036.0	11,411.6	8,036.0	60.2	58.4	-90.00	2,974.5	-976.0	1,186.9	1,070.8	116.12	10.222		
11,500.0	8,036.0	11,511.6	8,036.0	61.6	60.1	-90.00	3,074.5	-976.0	1,185.8	1,066.6	119.21	9.947		
11,600.0	8,036.0	11,611.6	8,036.0	63.0	61.7	-90.00	3,174.5	-976.0	1,184.7	1,062.4	122.32	9.685		
11,700.0	8,036.0	11,711.6	8,036.0	64.4	63.3	-90.00	3,274.5	-976.0	1,182.5	1,057.0	125.45	9.426		
11,800.0	8,036.0	11,811.5	8,036.0	65.8	65.0	-90.00	3,374.4	-976.0	1,178.5	1,049.9	128.60	9.164		
11,900.0	8,036.0	11,911.3	8,036.0	67.3	66.6	-90.00	3,474.3	-976.0	1,172.8	1,041.1	131.78	8.900		
12,000.0	8,036.0	12,011.0	8,036.0	68.8	68.3	-90.00	3,574.0	-976.0	1,165.4	1,030.4	134.97	8.634		
12,100.0	8,036.0	12,110.6	8,036.0	70.3	69.9	-90.00	3,673.6	-976.0	1,156.2	1,018.0	138.19	8.367		
12,200.0	8,036.0	12,210.0	8,036.0	71.8	71.6	-90.00	3,773.0	-976.0	1,145.3	1,003.9	141.42	8.099		
12,300.0	8,036.0	12,309.2	8,036.0	73.4	73.2	-90.00	3,872.2	-976.0	1,132.7	988.0	144.67	7.829		
12,400.0	8,036.0	12,408.3	8,036.0	75.0	74.9	-90.00	3,971.3	-976.0	1,119.3	971.4	147.93	7.566		
12,500.0	8,036.0	12,507.5	8,036.0	76.5	76.6	-90.00	4,070.5	-976.0	1,106.6	955.4	151.20	7.319		
12,600.0	8,036.0	12,636.0	8,036.0	78.1	78.7	-90.00	4,199.0	-974.9	1,093.3	938.8	154.47	7.078		
12,700.0	8,036.0	12,794.3	8,036.0	79.7	81.3	-90.00	4,357.0	-966.3	1,075.2	917.8	157.39	6.832		
12,800.0	8,036.0	12,897.2	8,036.0	81.2	83.0	-90.00	4,459.5	-957.4	1,054.0	893.4	160.58	6.564		
12,900.0	8,036.0	12,994.5	8,036.0	82.8	84.7	-90.00	4,556.5	-949.0	1,032.8	868.9	163.83	6.304		
13,000.0	8,036.0	13,091.9	8,036.0	84.4	86.3	-90.00	4,653.5	-940.6	1,011.6	844.5	167.09	6.054		
13,100.0	8,036.0	13,189.2	8,036.0	86.0	87.9	-90.00	4,750.4	-932.2	990.4	820.1	170.35	5.814		
13,200.0	8,036.0	13,286.6	8,036.0	87.6	89.5	-90.00	4,847.5	-923.9	969.3	795.7	173.62	5.583		
13,300.0	8,036.0	13,384.0	8,036.0	89.2	91.2	-90.00	4,944.5	-915.6	948.3	771.4	176.90	5.360		
13,400.0	8,036.0	13,481.4	8,036.0	90.8	92.8	-90.00	5,041.5	-907.4	927.2	747.0	180.18	5.146		
13,500.0	8,036.0	13,578.8	8,036.0	92.4	94.4	-90.00	5,138.6	-899.1	906.2	722.8	183.47	4.939		
13,600.0	8,036.0	13,676.2	8,036.0	94.1	96.1	-90.00	5,235.7	-891.0	885.3	698.5	186.76	4.740		
13,700.0	8,036.0	13,773.7	8,036.0	95.7	97.7	-90.00	5,332.8	-882.8	864.3	674.3	190.06	4.548		
13,800.0	8,036.0	13,871.2	8,036.0	97.3	99.4	-90.00	5,429.9	-874.7	843.5	650.1	193.36	4.362		
13,900.0	8,036.0	13,968.9	8,036.0	98.9	101.0	-90.00	5,527.3	-866.6	823.8	627.2	196.66	4.189		
14,000.0	8,036.0	14,066.9	8,036.0	100.5	102.7	-90.00	5,625.1	-858.6	805.9	605.9	199.96	4.030		
14,100.0	8,036.0	14,165.3	8,036.0	102.1	104.4	-90.00	5,723.1	-850.5	789.7	586.5	203.25	3.885		
14,200.0	8,036.0	14,264.0	8,036.0	103.7	106.0	-90.00	5,821.4	-842.4	775.3	568.8	206.54	3.754		
14,300.0	8,036.0	14,362.9	8,036.0	105.3	107.7	-90.00	5,920.0	-834.4	762.7	552.9	209.83	3.635		
14,400.0	8,036.0	14,462.0	8,036.0	106.8	109.4	-90.00	6,018.8	-826.4	751.8	538.7	213.10	3.528		
14,500.0	8,036.0	14,561.3	8,036.0	108.3	111.1	-90.00	6,117.7	-818.4	742.8	526.4	216.37	3.433		
14,600.0	8,036.0	14,660.7	8,036.0	109.8	112.8	-90.00	6,216.9	-810.5	735.4	515.8	219.62	3.349		
14,700.0	8,036.0	14,760.2	8,036.0	111.3	114.5	-90.00	6,316.1	-802.5	729.2	506.3	222.87	3.272		
14,800.0	8,036.0	14,859.7	8,036.0	112.8	116.2	-90.00	6,415.3	-794.6	723.0	496.9	226.12	3.198		
14,900.0	8,036.0	14,959.3	8,036.0	114.3	117.9	-90.00	6,514.5	-786.8	716.9	487.5	229.37	3.125		
15,000.0	8,036.0	15,053.4	8,036.0	115.9	119.5	-90.00	6,608.4	-779.6	711.0	478.2	232.79	3.054		
15,100.0	8,036.0	15,142.3	8,036.0	117.4	121.0	-90.00	6,697.1	-774.0	706.4	470.1	236.33	2.989		
15,200.0	8,036.0	15,231.3	8,036.0	118.9	122.6	-90.00	6,786.0	-769.7	703.4	463.6	239.82	2.933		
15,300.0	8,036.0	15,320.4	8,036.0	120.4	124.1	-90.00	6,875.0	-766.9	702.0	458.7	243.26	2.886		
15,343.5	8,036.0	15,359.1	8,036.0	121.0	124.8	-90.00	6,913.8	-766.1	701.8	457.1	244.74	2.868		
15,400.0	8,036.0	15,409.5	8,036.0	121.9	125.7	-90.00	6,964.1	-765.4	702.1	455.4	246.65	2.846		

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 4E-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 4E-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 #5	<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							
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	
15,500.0	8,036.0	15,502.0	8,036.0	123.4	127.3	-90.00	7,056.6	-765.3	703.6	453.7	249.96	2.815		
15,600.0	8,036.0	15,602.0	8,036.0	124.9	129.0	-90.00	7,156.6	-765.5	705.6	452.4	253.22	2.786		
15,700.0	8,036.0	15,702.0	8,036.0	126.4	130.7	-90.00	7,256.6	-765.7	707.5	451.0	256.48	2.759		
15,800.0	8,036.0	15,802.0	8,036.0	128.0	132.5	-90.00	7,356.6	-765.9	709.4	449.7	259.74	2.731		
15,900.0	8,036.0	15,902.0	8,036.0	129.5	134.2	-90.00	7,456.6	-766.1	711.4	448.4	263.00	2.705		
16,000.0	8,036.0	16,001.9	8,036.0	131.0	135.9	-90.00	7,556.6	-766.3	713.3	447.1	266.27	2.679		
16,100.0	8,036.0	16,101.9	8,036.0	132.5	137.7	-90.00	7,656.5	-766.5	715.3	445.7	269.53	2.654		
16,200.0	8,036.0	16,201.9	8,036.0	134.1	139.4	-90.00	7,756.5	-766.6	717.2	444.4	272.80	2.629		
16,300.0	8,036.0	16,301.9	8,036.0	135.6	141.1	-90.00	7,856.5	-766.8	719.1	443.1	276.07	2.605		
16,400.0	8,036.0	16,401.9	8,036.0	137.1	142.9	-90.00	7,956.5	-767.0	721.1	441.7	279.34	2.581		
16,500.0	8,036.0	16,501.8	8,036.0	138.6	144.6	-90.00	8,056.5	-767.2	723.0	440.4	282.61	2.558		
16,600.0	8,036.0	16,601.8	8,036.0	140.2	146.3	-90.00	8,156.4	-767.4	725.0	439.1	285.89	2.536		
16,700.0	8,036.0	16,701.8	8,036.0	141.7	148.1	-90.00	8,256.4	-767.6	726.9	437.7	289.16	2.514		
16,800.0	8,036.0	16,801.8	8,036.0	143.2	149.8	-90.00	8,356.4	-767.8	728.8	436.4	292.44	2.492		
16,900.0	8,036.0	16,901.8	8,036.0	144.7	151.6	-90.00	8,456.4	-768.0	730.8	435.1	295.71	2.471		
17,000.0	8,036.0	17,001.7	8,036.0	146.3	153.3	-90.00	8,556.4	-768.2	732.7	433.7	298.99	2.451		
17,100.0	8,036.0	17,101.7	8,036.0	147.8	155.0	-90.00	8,656.3	-768.4	734.7	432.4	302.27	2.430		
17,200.0	8,036.0	17,201.7	8,036.0	149.3	156.8	-90.00	8,756.3	-768.6	736.6	431.0	305.55	2.411		
17,300.0	8,036.0	17,301.7	8,036.0	150.9	158.5	-90.00	8,856.3	-768.8	738.5	429.7	308.83	2.391		
17,400.0	8,036.0	17,401.7	8,036.0	152.4	160.2	-90.00	8,956.3	-769.0	740.5	428.4	312.11	2.372		
17,500.0	8,036.0	17,501.7	8,036.0	154.0	162.0	-90.00	9,056.3	-769.2	742.4	427.0	315.39	2.354		
17,600.0	8,036.0	17,601.6	8,036.0	155.5	163.7	-90.00	9,156.2	-769.4	744.4	425.7	318.68	2.336		
17,700.0	8,036.0	17,701.6	8,036.0	157.0	165.5	-90.00	9,256.2	-769.6	746.3	424.3	321.96	2.318		
17,800.0	8,036.0	17,801.6	8,036.0	158.6	167.2	-90.00	9,356.2	-769.7	748.2	423.0	325.25	2.301		
17,900.0	8,036.0	17,901.6	8,036.0	159.8	168.9	-90.00	9,456.2	-769.9	750.2	421.9	328.23	2.286		
17,909.9	8,036.0	17,902.0	8,036.0	159.9	169.0	-90.00	9,456.7	-769.9	750.4	421.9	328.53	2.284 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - PLAN #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-8.4	8.4					
100.0	100.0	100.0	100.0	0.1	0.1	-89.94	0.0	-8.4	8.4	8.1	0.26	32.783		
200.0	200.0	200.0	200.0	0.5	0.5	-89.94	0.0	-8.4	8.4	7.4	0.97	8.634 CC, ES		
300.0	300.0	299.8	299.7	0.8	0.8	113.72	-1.2	-9.6	10.3	8.6	1.69	6.090		
400.0	399.8	399.3	399.1	1.2	1.2	116.90	-5.0	-13.2	15.9	13.5	2.41	6.590		
500.0	499.5	498.4	497.9	1.5	1.5	119.00	-11.2	-19.2	25.3	22.1	3.16	8.008		
600.0	598.7	596.9	595.7	1.9	1.9	120.15	-19.7	-27.5	38.4	34.5	3.92	9.793		
700.0	697.5	694.7	692.2	2.3	2.3	120.74	-30.6	-38.0	55.2	50.5	4.71	11.730		
800.0	795.6	792.7	788.8	2.8	2.7	122.25	-42.6	-49.6	74.6	69.2	5.49	13.604		
900.0	893.5	890.6	885.3	3.2	3.1	124.18	-54.6	-61.2	95.0	88.8	6.28	15.129		
1,000.0	991.3	988.4	981.7	3.7	3.6	125.43	-66.5	-72.7	115.5	108.4	7.10	16.280		
1,100.0	1,089.1	1,086.3	1,078.1	4.1	4.0	126.31	-78.5	-84.3	136.0	128.1	7.92	17.176		
1,200.0	1,186.9	1,184.1	1,174.6	4.6	4.4	126.95	-90.4	-95.8	156.6	147.8	8.75	17.891		
1,300.0	1,284.8	1,282.0	1,271.0	5.0	4.8	127.45	-102.4	-107.4	177.1	167.5	9.59	18.472		
1,400.0	1,382.6	1,379.9	1,367.4	5.5	5.3	127.84	-114.4	-119.0	197.7	187.2	10.43	18.955		
1,500.0	1,480.4	1,479.5	1,465.7	6.0	5.7	128.29	-126.2	-130.4	218.0	206.7	11.28	19.331		
1,600.0	1,578.3	1,581.1	1,566.4	6.4	6.1	129.36	-136.0	-139.9	237.0	224.9	12.12	19.556		
1,700.0	1,676.1	1,683.0	1,667.8	6.9	6.5	131.03	-143.2	-146.8	254.7	241.7	12.94	19.685		
1,800.0	1,773.9	1,784.8	1,769.3	7.4	6.9	133.18	-147.8	-151.3	271.2	257.5	13.72	19.760		
1,900.0	1,871.7	1,886.3	1,870.8	7.9	7.2	135.76	-149.9	-153.3	286.9	272.4	14.48	19.816		
2,000.0	1,969.6	1,985.1	1,969.6	8.3	7.5	138.47	-150.0	-153.4	302.2	287.1	15.17	19.929		
2,100.0	2,067.4	2,082.9	2,067.4	8.8	7.8	140.93	-150.0	-153.4	318.2	302.4	15.84	20.088		
2,200.0	2,165.2	2,180.7	2,165.2	9.3	8.1	143.14	-150.0	-153.4	334.7	318.2	16.51	20.265		
2,300.0	2,263.1	2,278.5	2,263.1	9.8	8.4	145.16	-150.0	-153.4	351.6	334.4	17.19	20.454		
2,400.0	2,360.9	2,376.4	2,360.9	10.2	8.7	146.98	-150.0	-153.4	368.9	351.0	17.87	20.649		
2,500.0	2,458.7	2,474.2	2,458.7	10.7	9.0	148.65	-150.0	-153.4	386.6	368.0	18.54	20.846		
2,600.0	2,556.6	2,572.0	2,556.6	11.2	9.3	150.17	-150.0	-153.4	404.5	385.3	19.22	21.043		
2,700.0	2,654.4	2,669.9	2,654.4	11.7	9.7	151.56	-150.0	-153.4	422.7	402.8	19.90	21.236		
2,800.0	2,752.2	2,767.7	2,752.2	12.1	10.0	152.83	-150.0	-153.4	441.1	420.5	20.59	21.425		
2,900.0	2,850.0	2,865.5	2,850.0	12.6	10.3	154.01	-150.0	-153.4	459.7	438.4	21.27	21.609		
3,000.0	2,947.9	2,963.3	2,947.9	13.1	10.6	155.09	-150.0	-153.4	478.5	456.5	21.96	21.787		
3,100.0	3,045.7	3,061.2	3,045.7	13.6	10.9	156.09	-150.0	-153.4	497.4	474.8	22.65	21.958		
3,200.0	3,143.5	3,159.0	3,143.5	14.0	11.3	157.02	-150.0	-153.4	516.5	493.2	23.35	22.124		
3,300.0	3,241.4	3,256.8	3,241.4	14.5	11.6	157.88	-150.0	-153.4	535.7	511.7	24.04	22.284		
3,400.0	3,339.2	3,354.7	3,339.2	15.0	11.9	158.69	-150.0	-153.4	555.0	530.3	24.74	22.437		
3,500.0	3,437.1	3,452.5	3,437.1	15.5	12.3	159.47	-150.0	-153.4	574.3	548.8	25.44	22.578		
3,600.0	3,535.4	3,550.9	3,535.4	15.9	12.6	160.20	-150.0	-153.4	591.1	565.0	26.13	22.623		
3,700.0	3,634.4	3,649.8	3,634.4	16.3	12.9	160.75	-150.0	-153.4	604.8	578.0	26.82	22.548		
3,800.0	3,733.7	3,749.2	3,733.7	16.7	13.3	161.16	-150.0	-153.4	615.3	587.7	27.51	22.362		
3,900.0	3,833.5	3,848.9	3,833.5	17.1	13.6	161.43	-150.0	-153.4	622.4	594.2	28.20	22.073		
4,000.0	3,933.4	3,948.8	3,933.4	17.4	13.9	161.57	-150.0	-153.4	626.3	597.4	28.88	21.687		
4,100.0	4,033.4	4,048.8	4,033.4	17.7	14.3	-40.04	-150.0	-153.4	627.0	597.5	29.53	21.233		
4,200.0	4,133.4	4,148.8	4,133.4	17.9	14.6	-40.04	-150.0	-153.4	627.0	596.8	30.17	20.782		
4,300.0	4,233.4	4,248.8	4,233.4	18.2	15.0	-40.04	-150.0	-153.4	627.0	596.2	30.82	20.346		
4,400.0	4,333.4	4,348.8	4,333.4	18.5	15.3	-40.04	-150.0	-153.4	627.0	595.5	31.46	19.927		
4,500.0	4,433.4	4,448.8	4,433.4	18.7	15.7	-40.04	-150.0	-153.4	627.0	594.9	32.12	19.523		
4,600.0	4,533.4	4,548.8	4,533.4	19.0	16.0	-40.04	-150.0	-153.4	627.0	594.2	32.77	19.134		
4,700.0	4,633.4	4,648.8	4,633.4	19.3	16.4	-40.04	-150.0	-153.4	627.0	593.6	33.43	18.758		
4,800.0	4,733.4	4,748.8	4,733.4	19.6	16.7	-40.04	-150.0	-153.4	627.0	592.9	34.08	18.396		
4,900.0	4,833.4	4,848.8	4,833.4	19.8	17.1	-40.04	-150.0	-153.4	627.0	592.3	34.75	18.046		
5,000.0	4,933.4	4,948.8	4,933.4	20.1	17.4	-40.04	-150.0	-153.4	627.0	591.6	35.41	17.708		
5,100.0	5,033.4	5,048.8	5,033.4	20.4	17.8	-40.04	-150.0	-153.4	627.0	590.9	36.07	17.382		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - PLAN #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD+HDGM													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	5,133.4	5,148.8	5,133.4	20.7	18.1	-40.04	-150.0	-153.4	627.0	590.3	36.74	17.066		
5,300.0	5,233.4	5,248.8	5,233.4	21.0	18.5	-40.04	-150.0	-153.4	627.0	589.6	37.41	16.761		
5,400.0	5,333.4	5,348.8	5,333.4	21.3	18.8	-40.04	-150.0	-153.4	627.0	588.9	38.08	16.466		
5,500.0	5,433.4	5,448.8	5,433.4	21.6	19.2	-40.04	-150.0	-153.4	627.0	588.3	38.75	16.180		
5,600.0	5,533.4	5,548.8	5,533.4	21.9	19.5	-40.04	-150.0	-153.4	627.0	587.6	39.43	15.904		
5,700.0	5,633.4	5,648.8	5,633.4	22.2	19.9	-40.04	-150.0	-153.4	627.0	586.9	40.10	15.636		
5,800.0	5,733.4	5,748.8	5,733.4	22.5	20.2	-40.04	-150.0	-153.4	627.0	586.2	40.78	15.377		
5,900.0	5,833.4	5,848.8	5,833.4	22.8	20.6	-40.04	-150.0	-153.4	627.0	585.6	41.45	15.125		
6,000.0	5,933.4	5,948.8	5,933.4	23.1	20.9	-40.04	-150.0	-153.4	627.0	584.9	42.13	14.881		
6,100.0	6,033.4	6,048.8	6,033.4	23.4	21.3	-40.04	-150.0	-153.4	627.0	584.2	42.81	14.645		
6,200.0	6,133.4	6,148.8	6,133.4	23.7	21.6	-40.04	-150.0	-153.4	627.0	583.5	43.50	14.415		
6,300.0	6,233.4	6,248.8	6,233.4	24.0	22.0	-40.04	-150.0	-153.4	627.0	582.8	44.18	14.193		
6,400.0	6,333.4	6,348.8	6,333.4	24.3	22.3	-40.04	-150.0	-153.4	627.0	582.1	44.86	13.976		
6,500.0	6,433.4	6,448.8	6,433.4	24.6	22.7	-40.04	-150.0	-153.4	627.0	581.5	45.55	13.766		
6,600.0	6,533.4	6,548.8	6,533.4	24.9	23.0	-40.04	-150.0	-153.4	627.0	580.8	46.23	13.562		
6,700.0	6,633.4	6,648.8	6,633.4	25.2	23.4	-40.04	-150.0	-153.4	627.0	580.1	46.92	13.364		
6,800.0	6,733.4	6,748.8	6,733.4	25.5	23.7	-40.04	-150.0	-153.4	627.0	579.4	47.61	13.171		
6,900.0	6,833.4	6,848.8	6,833.4	25.9	24.1	-40.04	-150.0	-153.4	627.0	578.7	48.29	12.983		
7,000.0	6,933.4	6,948.8	6,933.4	26.2	24.4	-40.04	-150.0	-153.4	627.0	578.0	48.98	12.800		
7,100.0	7,033.4	7,048.8	7,033.4	26.5	24.8	-40.04	-150.0	-153.4	627.0	577.3	49.67	12.623		
7,103.9	7,037.3	7,052.8	7,037.3	26.5	24.8	-40.04	-150.0	-153.4	627.0	577.3	49.70	12.616		
7,200.0	7,133.4	7,128.3	7,112.8	26.8	25.1	-40.01	-149.4	-153.4	627.8	577.6	50.19	12.510		
7,300.0	7,233.4	7,186.4	7,170.7	27.1	25.3	-39.76	-144.7	-153.8	634.4	584.0	50.35	12.600		
7,400.0	7,333.4	7,250.0	7,233.4	27.5	25.5	-38.50	-134.2	-154.5	647.5	597.1	50.40	12.846		
7,500.0	7,432.9	7,300.0	7,281.9	27.7	25.6	-37.51	-122.1	-155.4	660.2	610.3	49.98	13.211		
7,600.0	7,530.2	7,350.0	7,329.4	28.0	25.8	-36.93	-106.7	-156.4	668.6	619.3	49.28	13.568		
7,700.0	7,623.4	7,412.1	7,386.8	28.2	26.0	-36.75	-82.9	-158.1	672.2	623.5	48.73	13.797		
7,800.0	7,710.8	7,468.3	7,436.7	28.4	26.1	-36.99	-57.2	-159.9	671.3	623.4	47.86	14.026		
7,900.0	7,790.5	7,524.5	7,484.4	28.6	26.3	-37.65	-27.7	-162.0	665.7	618.8	46.91	14.192		
8,000.0	7,861.0	7,580.7	7,529.8	28.7	26.4	-38.75	5.5	-164.3	655.7	609.7	45.96	14.266		
8,100.0	7,921.0	7,637.2	7,572.6	28.9	26.6	-40.32	42.2	-166.8	641.4	596.3	45.13	14.213		
8,200.0	7,969.3	7,700.0	7,616.5	29.1	26.7	-42.53	86.9	-170.0	623.4	578.6	44.79	13.917		
8,300.0	8,005.0	7,750.0	7,648.6	29.3	26.9	-45.01	125.2	-172.6	601.8	557.5	44.33	13.576		
8,400.0	8,027.3	7,800.0	7,678.0	29.5	27.0	-47.99	165.5	-175.5	577.8	533.3	44.45	12.999		
8,500.0	8,035.9	7,866.5	7,712.5	29.8	27.3	-52.21	222.2	-179.4	551.6	505.7	45.88	12.024		
8,600.0	8,036.0	7,926.9	7,739.1	30.2	27.5	-54.96	276.2	-183.2	527.8	480.3	47.56	11.099		
8,700.0	8,036.0	7,992.1	7,762.7	30.7	27.8	-57.37	336.9	-187.4	511.3	461.9	49.41	10.348		
8,800.0	8,036.0	8,061.5	7,781.6	31.2	28.1	-59.44	403.5	-192.1	501.5	450.3	51.25	9.785		
8,900.0	8,036.0	8,134.2	7,794.3	31.8	28.5	-60.95	474.9	-197.1	497.7	444.8	52.93	9.403		
8,920.5	8,036.0	8,150.0	7,796.1	31.9	28.5	-61.19	490.5	-198.2	497.6	444.4	53.26	9.344		
9,000.0	8,036.0	8,208.8	7,799.8	32.5	28.8	-61.75	549.1	-202.3	499.4	445.0	54.36	9.186		
9,100.0	8,036.0	8,303.6	7,800.0	33.2	29.4	-62.06	643.6	-208.9	504.4	448.7	55.72	9.054		
9,200.0	8,036.0	8,403.4	7,800.0	34.0	30.0	-62.37	743.2	-215.9	509.7	452.5	57.21	8.908		
9,300.0	8,036.0	8,503.2	7,800.0	34.8	30.8	-62.68	842.7	-222.8	514.9	456.1	58.83	8.753		
9,400.0	8,036.0	8,603.1	7,800.0	35.7	31.6	-62.98	942.3	-229.8	520.1	459.6	60.55	8.590		
9,500.0	8,036.0	8,702.9	7,800.0	36.7	32.4	-63.27	1,041.9	-236.7	525.4	463.0	62.38	8.423		
9,600.0	8,036.0	8,802.7	7,800.0	37.7	33.3	-63.55	1,141.5	-243.7	530.7	466.4	64.30	8.253		
9,700.0	8,036.0	8,902.5	7,800.0	38.7	34.3	-63.84	1,241.1	-250.7	536.0	469.6	66.31	8.082		
9,800.0	8,036.0	9,002.4	7,800.0	39.8	35.3	-64.11	1,340.7	-257.6	541.3	472.9	68.40	7.913		
9,900.0	8,036.0	9,102.2	7,800.0	40.9	36.4	-64.38	1,440.2	-264.6	546.6	476.0	70.57	7.745		
10,000.0	8,036.0	9,202.0	7,800.0	42.0	37.5	-64.64	1,539.8	-271.6	551.9	479.1	72.80	7.580		
10,100.0	8,036.0	9,309.3	7,800.0	43.2	38.7	-64.90	1,646.9	-278.4	556.7	481.5	75.17	7.406		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - PLAN #4													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD+HDGM													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		
10,200.0	8,036.0	9,419.0	7,800.0	44.4	40.0	-65.06	1,756.4	-283.4	559.8	482.3	77.57	7.217		
10,300.0	8,036.0	9,528.7	7,800.0	45.6	41.3	-65.13	1,866.1	-286.3	561.2	481.3	79.95	7.020		
10,400.0	8,036.0	9,630.9	7,800.0	46.8	42.5	-65.14	1,968.3	-287.6	561.4	479.1	82.27	6.824		
10,500.0	8,036.0	9,730.9	7,800.0	48.1	43.8	-65.15	2,068.3	-288.8	561.5	476.9	84.61	6.637		
10,600.0	8,036.0	9,830.9	7,800.0	49.4	45.0	-65.15	2,168.3	-290.0	561.7	474.7	86.99	6.456		
10,700.0	8,036.0	9,930.9	7,800.0	50.7	46.3	-65.16	2,268.3	-291.3	561.8	472.4	89.41	6.283		
10,800.0	8,036.0	10,030.9	7,800.0	52.0	47.6	-65.17	2,368.3	-292.5	561.9	470.1	91.86	6.117		
10,900.0	8,036.0	10,130.9	7,800.0	53.3	48.9	-65.17	2,468.3	-293.7	562.1	467.7	94.34	5.958		
11,000.0	8,036.0	10,230.9	7,800.0	54.7	50.2	-65.18	2,568.3	-295.0	562.2	465.3	96.85	5.805		
11,100.0	8,036.0	10,330.9	7,800.0	56.0	51.6	-65.18	2,668.3	-296.2	562.3	462.9	99.38	5.658		
11,200.0	8,036.0	10,430.9	7,800.0	57.4	52.9	-65.19	2,768.3	-297.4	562.5	460.5	101.94	5.518		
11,300.0	8,036.0	10,530.9	7,800.0	58.8	54.3	-65.20	2,868.3	-298.6	562.6	458.1	104.52	5.383		
11,400.0	8,036.0	10,630.9	7,800.0	60.2	55.7	-65.20	2,968.3	-299.9	562.7	455.6	107.12	5.253		
11,500.0	8,036.0	10,730.9	7,800.0	61.6	57.1	-65.21	3,068.3	-301.1	562.9	453.1	109.74	5.129		
11,600.0	8,036.0	10,830.9	7,800.0	63.0	58.5	-65.22	3,168.3	-302.3	563.0	450.6	112.38	5.010		
11,700.0	8,036.0	10,930.9	7,800.0	64.4	59.9	-65.17	3,268.2	-303.6	562.1	447.1	115.01	4.887		
11,800.0	8,036.0	11,030.9	7,800.0	65.8	61.3	-65.04	3,368.2	-304.8	559.6	442.0	117.60	4.758		
11,900.0	8,036.0	11,130.8	7,800.0	67.3	62.7	-64.83	3,468.1	-306.0	555.5	435.4	120.17	4.623		
12,000.0	8,036.0	11,230.6	7,800.0	68.8	64.2	-64.53	3,567.9	-307.2	549.9	427.2	122.69	4.482		
12,100.0	8,036.0	11,330.3	7,800.0	70.3	65.6	-64.14	3,667.6	-308.5	542.8	417.6	125.15	4.337		
12,200.0	8,036.0	11,429.8	7,800.0	71.8	67.0	-63.65	3,767.1	-309.7	534.0	406.5	127.54	4.187		
12,300.0	8,036.0	11,529.1	7,800.0	73.4	68.5	-63.05	3,866.4	-310.9	523.8	394.0	129.85	4.034		
12,400.0	8,036.0	11,628.4	7,800.0	75.0	69.9	-62.46	3,965.7	-312.1	513.0	380.9	132.09	3.884		
12,500.0	8,036.0	11,727.7	7,800.0	76.5	71.4	-61.85	4,065.0	-313.3	502.9	368.5	134.32	3.744		
12,600.0	8,036.0	11,827.1	7,800.0	78.1	72.9	-61.22	4,164.3	-314.6	492.8	356.3	136.50	3.610		
12,700.0	8,036.0	11,926.4	7,800.0	79.7	74.3	-60.57	4,263.7	-315.8	482.7	344.1	138.63	3.482		
12,800.0	8,036.0	12,025.8	7,800.0	81.2	75.8	-59.89	4,363.0	-317.0	472.8	332.1	140.71	3.360		
12,900.0	8,036.0	12,125.1	7,800.0	82.8	77.3	-59.18	4,462.3	-318.2	462.9	320.2	142.72	3.243		
13,000.0	8,036.0	12,224.4	7,800.0	84.4	78.8	-58.44	4,561.7	-319.4	453.1	308.4	144.67	3.132		
13,100.0	8,036.0	12,323.8	7,800.0	86.0	80.3	-57.66	4,661.0	-320.7	443.3	296.8	146.54	3.025		
13,200.0	8,036.0	12,423.1	7,800.0	87.6	81.7	-56.86	4,760.3	-321.9	433.7	285.3	148.32	2.924		
13,300.0	8,036.0	12,522.5	7,800.0	89.2	83.2	-56.01	4,859.7	-323.1	424.1	274.1	150.02	2.827		
13,400.0	8,036.0	12,621.8	7,800.0	90.8	84.7	-55.13	4,959.0	-324.3	414.6	263.0	151.61	2.735		
13,500.0	8,036.0	12,721.2	7,800.0	92.4	86.2	-54.20	5,058.3	-325.6	405.3	252.2	153.10	2.647		
13,600.0	8,036.0	12,820.5	7,800.0	94.1	87.7	-53.24	5,157.7	-326.8	396.0	241.5	154.47	2.564		
13,700.0	8,036.0	12,919.8	7,800.0	95.7	89.3	-52.22	5,257.0	-328.0	386.9	231.1	155.70	2.485		
13,800.0	8,036.0	13,019.2	7,800.0	97.3	90.8	-51.17	5,356.3	-329.2	377.9	221.1	156.80	2.410		
13,900.0	8,036.0	13,118.6	7,800.0	98.9	92.3	-50.23	5,455.8	-330.4	369.9	212.0	157.92	2.342		
14,000.0	8,036.0	13,218.3	7,800.0	100.5	93.8	-49.41	5,555.4	-331.7	363.4	204.2	159.17	2.283		
14,100.0	8,036.0	13,318.1	7,800.0	102.1	95.3	-48.74	5,655.2	-332.9	358.2	197.6	160.61	2.230		
14,200.0	8,036.0	13,417.9	7,800.0	103.7	96.8	-48.23	5,755.1	-334.1	354.4	192.2	162.27	2.184		
14,300.0	8,036.0	13,517.9	7,800.0	105.3	98.4	-47.89	5,855.0	-335.3	352.0	187.8	164.19	2.144		
14,400.0	8,036.0	13,617.9	7,800.0	106.8	99.9	-47.72	5,955.0	-336.6	350.8	184.4	166.41	2.108		
14,439.5	8,036.0	13,657.4	7,800.0	107.4	100.5	-47.71	5,994.5	-337.1	350.7	183.4	167.37	2.095		
14,500.0	8,036.0	13,717.9	7,800.0	108.3	101.4	-47.74	6,055.0	-337.8	351.0	182.0	168.94	2.077		
14,600.0	8,036.0	13,817.9	7,800.0	109.8	103.0	-47.94	6,155.0	-339.0	352.4	180.6	171.80	2.051		
14,700.0	8,036.0	13,917.8	7,800.0	111.3	104.5	-48.26	6,254.9	-340.3	354.6	179.7	174.86	2.028		
14,800.0	8,036.0	14,017.7	7,800.0	112.8	106.1	-48.58	6,354.8	-341.5	356.8	178.9	177.93	2.005		
14,900.0	8,036.0	14,117.7	7,800.0	114.3	107.6	-48.89	6,454.8	-342.7	359.1	178.1	181.00	1.984		
15,000.0	8,036.0	14,217.7	7,800.0	115.9	109.1	-49.20	6,554.7	-343.9	361.3	177.2	184.08	1.963		
15,100.0	8,036.0	14,317.6	7,800.0	117.4	110.7	-49.51	6,654.7	-345.2	363.6	176.4	187.17	1.942		
15,200.0	8,036.0	14,417.6	7,800.0	118.9	112.2	-49.81	6,754.6	-346.4	365.8	175.6	190.27	1.923		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4D-29H-P168 - Hz - PLAN #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD+HDGM													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		
15,300.0	8,036.0	14,517.5	7,800.0	120.4	113.8	-50.11	6,854.6	-347.6	368.1	174.7	193.38	1.904		
15,400.0	8,036.0	14,617.5	7,800.0	121.9	115.3	-50.41	6,954.5	-348.8	370.4	173.9	196.49	1.885		
15,500.0	8,036.0	14,717.4	7,800.0	123.4	116.9	-50.70	7,054.5	-350.1	372.7	173.1	199.60	1.867		
15,600.0	8,036.0	14,817.4	7,800.0	124.9	118.4	-50.99	7,154.4	-351.3	375.0	172.3	202.73	1.850		
15,700.0	8,036.0	14,917.3	7,800.0	126.4	120.0	-51.27	7,254.4	-352.5	377.3	171.5	205.85	1.833		
15,800.0	8,036.0	15,017.3	7,800.0	128.0	121.5	-51.55	7,354.3	-353.8	379.6	170.6	208.99	1.817		
15,900.0	8,036.0	15,117.3	7,800.0	129.5	123.1	-51.83	7,454.3	-355.0	382.0	169.8	212.13	1.801		
16,000.0	8,036.0	15,217.2	7,800.0	131.0	124.6	-52.10	7,554.2	-356.2	384.3	169.0	215.27	1.785		
16,100.0	8,036.0	15,317.2	7,800.0	132.5	126.2	-52.37	7,654.2	-357.4	386.7	168.2	218.42	1.770		
16,200.0	8,036.0	15,417.1	7,800.0	134.1	127.8	-52.64	7,754.1	-358.7	389.0	167.4	221.57	1.756		
16,300.0	8,036.0	15,517.1	7,800.0	135.6	129.3	-52.90	7,854.1	-359.9	391.4	166.7	224.73	1.742		
16,400.0	8,036.0	15,617.0	7,800.0	137.1	130.9	-53.16	7,954.0	-361.1	393.8	165.9	227.90	1.728		
16,500.0	8,036.0	15,717.0	7,800.0	138.6	132.4	-53.42	8,054.0	-362.4	396.1	165.1	231.06	1.714		
16,600.0	8,036.0	15,816.9	7,800.0	140.2	134.0	-53.68	8,153.9	-363.6	398.5	164.3	234.23	1.701		
16,700.0	8,036.0	15,916.9	7,800.0	141.7	135.6	-53.93	8,253.8	-364.8	400.9	163.5	237.41	1.689		
16,800.0	8,036.0	16,016.9	7,800.0	143.2	137.1	-54.18	8,353.8	-366.0	403.3	162.8	240.59	1.676		
16,900.0	8,036.0	16,116.8	7,800.0	144.7	138.7	-54.42	8,453.7	-367.3	405.8	162.0	243.77	1.665		
17,000.0	8,036.0	16,216.8	7,800.0	146.3	140.2	-54.67	8,553.7	-368.5	408.2	161.2	246.96	1.653		
17,100.0	8,036.0	16,316.7	7,800.0	147.8	141.8	-54.91	8,653.6	-369.7	410.6	160.5	250.14	1.641		
17,200.0	8,036.0	16,416.7	7,800.0	149.3	143.4	-55.14	8,753.6	-370.9	413.0	159.7	253.34	1.630		
17,300.0	8,036.0	16,516.6	7,800.0	150.9	144.9	-55.38	8,853.5	-372.2	415.5	159.0	256.53	1.620 SF		
17,400.0	8,036.0	16,533.3	7,800.0	152.4	145.2	-55.42	8,870.2	-372.4	426.2	171.3	254.84	1.672		
17,500.0	8,036.0	16,533.3	7,800.0	154.0	145.2	-55.42	8,870.2	-372.4	458.6	216.7	241.93	1.896		
17,600.0	8,036.0	16,533.3	7,800.0	155.5	145.2	-55.42	8,870.2	-372.4	509.0	285.7	223.26	2.280		
17,700.0	8,036.0	16,533.3	7,800.0	157.0	145.2	-55.42	8,870.2	-372.4	572.5	368.8	203.70	2.810		
17,800.0	8,036.0	16,533.3	7,800.0	158.6	145.2	-55.42	8,870.2	-372.4	645.3	459.6	185.79	3.474		
17,900.0	8,036.0	16,533.3	7,800.0	159.8	145.2	-55.42	8,870.2	-372.4	724.7	554.3	170.40	4.253		
17,909.9	8,036.0	16,533.3	7,800.0	159.9	145.2	-55.42	8,870.2	-372.4	732.8	563.8	169.03	4.336		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #3														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2						
100.0	100.0	100.0	100.0	0.1	0.1	90.04	0.0	11.2	11.2	11.0	0.25	44.292			
200.0	200.0	200.0	200.0	0.5	0.3	90.04	0.0	11.2	11.2	10.4	0.79	14.255			
300.0	300.0	300.0	300.0	0.8	0.5	-77.05	0.0	11.2	10.7	9.4	1.30	8.187			
354.0	354.0	354.0	354.0	1.0	0.6	-90.00	0.0	11.2	10.4	8.8	1.59	6.563 CC, ES			
400.0	399.8	399.8	399.8	1.2	0.6	-105.22	0.0	11.2	10.8	9.0	1.83	5.909			
500.0	499.5	499.5	499.5	1.5	0.8	-137.82	0.0	11.2	15.6	13.2	2.36	6.579			
600.0	598.7	599.4	599.4	1.9	1.0	-154.00	-1.5	12.1	24.5	21.6	2.91	8.426			
700.0	697.5	699.7	699.6	2.3	1.2	-160.39	-6.0	14.8	34.6	31.1	3.47	9.966			
800.0	795.6	800.4	799.9	2.8	1.4	-163.17	-13.5	19.3	45.0	41.0	4.05	11.130			
900.0	893.5	900.6	899.4	3.2	1.6	-164.09	-23.5	25.3	54.5	49.9	4.61	11.812			
1,000.0	991.3	1,000.2	998.3	3.7	1.9	-164.59	-33.9	31.5	63.6	58.4	5.17	12.295			
1,100.0	1,089.1	1,099.8	1,097.1	4.1	2.1	-164.97	-44.2	37.7	72.7	67.0	5.74	12.676			
1,200.0	1,186.9	1,199.4	1,196.0	4.6	2.4	-165.26	-54.5	43.9	81.9	75.6	6.31	12.983			
1,300.0	1,284.8	1,299.0	1,294.8	5.0	2.6	-165.50	-64.8	50.1	91.0	84.1	6.88	13.235			
1,400.0	1,382.6	1,398.6	1,393.7	5.5	2.9	-165.69	-75.1	56.3	100.1	92.7	7.45	13.445			
1,500.0	1,480.4	1,498.1	1,492.5	6.0	3.2	-165.85	-85.4	62.5	109.3	101.2	8.02	13.624			
1,600.0	1,578.3	1,597.7	1,591.4	6.4	3.4	-165.98	-95.7	68.7	118.4	109.8	8.59	13.777			
1,700.0	1,676.1	1,697.3	1,690.2	6.9	3.7	-166.10	-106.0	74.9	127.5	118.3	9.17	13.910			
1,800.0	1,773.9	1,796.9	1,789.1	7.4	4.0	-166.20	-116.3	81.1	136.6	126.9	9.74	14.026			
1,900.0	1,871.7	1,896.5	1,887.9	7.9	4.2	-166.29	-126.6	87.2	145.8	135.5	10.32	14.129			
2,000.0	1,969.6	1,996.0	1,986.8	8.3	4.5	-166.37	-136.9	93.4	154.9	144.0	10.89	14.220			
2,100.0	2,067.4	2,095.6	2,085.7	8.8	4.8	-166.43	-147.2	99.6	164.0	152.6	11.47	14.301			
2,200.0	2,165.2	2,195.2	2,184.5	9.3	5.0	-166.50	-157.5	105.8	173.2	161.1	12.05	14.374			
2,300.0	2,263.1	2,294.8	2,283.4	9.8	5.3	-166.55	-167.8	112.0	182.3	169.7	12.62	14.441			
2,400.0	2,360.9	2,394.4	2,382.2	10.2	5.6	-166.60	-178.1	118.2	191.4	178.2	13.20	14.501			
2,500.0	2,458.7	2,494.0	2,481.1	10.7	5.8	-166.65	-188.4	124.4	200.6	186.8	13.78	14.556			
2,600.0	2,556.6	2,593.5	2,579.9	11.2	6.1	-166.69	-198.7	130.6	209.7	195.4	14.36	14.606			
2,700.0	2,654.4	2,693.1	2,678.8	11.7	6.4	-166.73	-209.0	136.8	218.8	203.9	14.94	14.652			
2,800.0	2,752.2	2,792.7	2,777.6	12.1	6.6	-166.76	-219.3	143.0	228.0	212.5	15.51	14.695			
2,900.0	2,850.0	2,892.3	2,876.5	12.6	6.9	-166.79	-229.6	149.1	237.1	221.0	16.09	14.734			
3,000.0	2,947.9	2,991.9	2,975.3	13.1	7.2	-166.82	-239.9	155.3	246.2	229.6	16.67	14.771			
3,100.0	3,045.7	3,091.4	3,074.2	13.6	7.5	-166.85	-250.2	161.5	255.4	238.1	17.25	14.805			
3,200.0	3,143.5	3,191.0	3,173.1	14.0	7.7	-166.88	-260.5	167.7	264.5	246.7	17.83	14.836			
3,300.0	3,241.4	3,290.6	3,271.9	14.5	8.0	-166.90	-270.8	173.9	273.6	255.2	18.41	14.866			
3,400.0	3,339.2	3,390.2	3,370.8	15.0	8.3	-166.92	-281.1	180.1	282.8	263.8	18.99	14.894			
3,500.0	3,437.1	3,489.8	3,469.6	15.5	8.5	-166.95	-291.4	186.3	291.7	272.2	19.57	14.912			
3,600.0	3,535.4	3,589.6	3,568.7	15.9	8.8	-166.87	-301.7	192.5	298.1	278.0	20.14	14.800			
3,700.0	3,634.4	3,689.5	3,667.9	16.3	9.1	-166.64	-312.0	198.7	301.1	280.4	20.72	14.531			
3,800.0	3,733.7	3,789.5	3,767.1	16.7	9.4	-166.23	-322.4	204.9	300.7	279.4	21.30	14.117			
3,900.0	3,833.5	3,889.4	3,866.3	17.1	9.6	-165.65	-332.7	211.1	296.9	275.1	21.88	13.570			
4,000.0	3,933.4	3,989.0	3,965.2	17.4	9.9	-164.85	-343.0	217.3	289.8	267.4	22.47	12.901			
4,100.0	4,033.4	4,088.4	4,063.9	17.7	10.2	-5.47	-353.3	223.5	279.6	256.6	23.04	12.137			
4,200.0	4,133.4	4,187.7	4,162.4	17.9	10.4	-4.37	-363.6	229.7	268.8	245.2	23.62	11.381			
4,300.0	4,233.4	4,286.9	4,260.9	18.2	10.7	-3.17	-373.8	235.8	258.0	233.8	24.21	10.659			
4,400.0	4,333.4	4,386.2	4,359.5	18.5	11.0	-1.86	-384.1	242.0	247.4	222.6	24.81	9.970			
4,500.0	4,433.4	4,485.5	4,458.0	18.7	11.3	-0.45	-394.4	248.2	236.9	211.5	25.44	9.313			
4,600.0	4,533.4	4,584.7	4,556.6	19.0	11.5	1.10	-404.6	254.3	226.6	200.5	26.09	8.686			
4,700.0	4,633.4	4,684.0	4,655.1	19.3	11.8	2.80	-414.9	260.5	216.4	189.7	26.76	8.089			
4,800.0	4,733.4	4,783.3	4,753.7	19.6	12.1	4.66	-425.2	266.7	206.5	179.0	27.45	7.522			
4,900.0	4,833.4	4,882.5	4,852.2	19.8	12.3	6.70	-435.5	272.8	196.8	168.6	28.18	6.984			
5,000.0	4,933.4	4,981.8	4,950.7	20.1	12.6	8.95	-445.7	279.0	187.4	158.4	28.93	6.476			

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,100.0	5,033.4	5,081.1	5,049.3	20.4	12.9	11.43	-456.0	285.2	178.2	148.5	29.72	5.997		
5,200.0	5,133.4	5,180.4	5,147.8	20.7	13.2	14.18	-466.3	291.4	169.5	138.9	30.55	5.548		
5,300.0	5,233.4	5,279.6	5,246.4	21.0	13.4	17.21	-476.5	297.5	161.2	129.8	31.42	5.130		
5,400.0	5,333.4	5,378.9	5,344.9	21.3	13.7	20.56	-486.8	303.7	153.4	121.0	32.33	4.745		
5,500.0	5,433.4	5,478.2	5,443.5	21.6	14.0	24.25	-497.1	309.9	146.1	112.9	33.27	4.393		
5,600.0	5,533.4	5,577.4	5,542.0	21.9	14.2	28.30	-507.3	316.0	139.6	105.3	34.23	4.077		
5,700.0	5,633.4	5,676.7	5,640.6	22.2	14.5	32.72	-517.6	322.2	133.8	98.6	35.21	3.799		
5,800.0	5,733.4	5,776.0	5,739.1	22.5	14.8	37.51	-527.9	328.4	128.9	92.7	36.19	3.561		
5,900.0	5,833.4	5,875.2	5,837.6	22.8	15.1	42.63	-538.1	334.5	124.9	87.8	37.13	3.364		
6,000.0	5,933.4	5,974.5	5,936.2	23.1	15.3	48.03	-548.4	340.7	122.0	84.0	38.02	3.210		
6,100.0	6,033.4	6,073.8	6,034.7	23.4	15.6	53.64	-558.7	346.9	120.3	81.5	38.82	3.099		
6,193.7	6,127.1	6,166.8	6,127.1	23.7	15.9	59.00	-568.3	352.7	119.8	80.3	39.47	3.035		
6,200.0	6,133.4	6,173.0	6,133.3	23.7	15.9	59.36	-568.9	353.1	119.8	80.3	39.51	3.032		
6,300.0	6,233.4	6,272.3	6,231.8	24.0	16.1	65.07	-579.2	359.2	120.5	80.4	40.08	3.006		
6,400.0	6,333.4	6,371.6	6,330.4	24.3	16.4	70.66	-589.5	365.4	122.3	81.8	40.52	3.019		
6,500.0	6,433.4	6,470.9	6,428.9	24.6	16.7	76.03	-599.8	371.6	125.4	84.5	40.86	3.068		
6,600.0	6,533.4	6,570.1	6,527.4	24.9	17.0	81.11	-610.0	377.7	129.4	88.3	41.11	3.148		
6,700.0	6,633.4	6,669.4	6,626.0	25.2	17.2	85.85	-620.3	383.9	134.5	93.2	41.30	3.256		
6,800.0	6,733.4	6,768.9	6,725.0	25.5	17.4	89.51	-628.8	390.0	140.3	98.8	41.46	3.384		
6,900.0	6,833.4	6,869.2	6,825.1	25.9	17.6	89.68	-629.2	395.9	146.1	104.3	41.85	3.492		
7,000.0	6,933.4	6,968.9	6,924.2	26.2	17.6	86.56	-620.9	401.3	151.9	109.5	42.43	3.580		
7,100.0	7,033.4	7,066.4	7,020.1	26.5	17.5	80.73	-604.5	406.3	158.9	115.8	43.06	3.690		
7,200.0	7,133.4	7,160.5	7,111.1	26.8	17.4	73.02	-581.0	410.6	169.4	126.0	43.46	3.898		
7,300.0	7,233.4	7,250.2	7,195.8	27.1	17.2	64.51	-551.7	414.4	185.9	142.6	43.33	4.291		
7,400.0	7,333.4	7,334.8	7,273.4	27.5	17.0	56.62	-518.0	417.5	210.2	167.6	42.55	4.940		
7,500.0	7,432.9	7,417.3	7,346.4	27.7	16.8	48.64	-479.8	420.2	237.6	196.2	41.37	5.742		
7,600.0	7,530.2	7,500.0	7,416.7	28.0	16.5	43.13	-436.3	422.6	262.8	222.7	40.09	6.554		
7,700.0	7,623.4	7,582.1	7,483.2	28.2	16.3	39.41	-388.3	424.5	284.1	245.3	38.76	7.330		
7,800.0	7,710.8	7,664.4	7,546.2	28.4	16.1	37.01	-335.5	426.0	300.6	263.1	37.46	8.023		
7,900.0	7,790.5	7,744.5	7,603.8	28.6	15.9	35.64	-279.7	427.1	311.7	275.6	36.12	8.629		
8,000.0	7,861.0	7,818.7	7,651.9	28.7	15.8	34.86	-223.3	427.6	318.9	284.4	34.49	9.247		
8,100.0	7,921.0	7,892.6	7,693.8	28.9	15.7	34.46	-162.4	427.5	322.8	289.8	32.99	9.786		
8,200.0	7,969.3	7,966.5	7,729.1	29.1	15.7	34.41	-97.6	426.9	323.3	291.6	31.75	10.182		
8,300.0	8,005.0	8,040.3	7,757.6	29.3	15.7	34.72	-29.5	425.8	320.4	289.5	30.94	10.355		
8,400.0	8,027.3	8,114.4	7,779.1	29.5	15.9	35.40	41.4	424.1	314.1	283.4	30.66	10.244		
8,500.0	8,035.9	8,189.0	7,793.2	29.8	16.2	36.48	114.5	421.9	304.5	273.5	31.04	9.810		
8,600.0	8,036.0	8,264.4	7,799.6	30.2	16.5	36.98	189.6	419.1	296.2	264.4	31.85	9.301		
8,700.0	8,036.0	8,357.0	7,800.0	30.7	17.1	36.58	282.0	415.3	294.0	261.4	32.57	9.026		
8,800.0	8,036.0	8,456.9	7,800.0	31.2	17.9	36.10	381.9	411.1	292.1	258.8	33.35	8.760		
8,900.0	8,036.0	8,556.9	7,800.0	31.8	18.8	35.61	481.7	407.0	290.3	256.1	34.23	8.483		
9,000.0	8,036.0	8,656.8	7,800.0	32.5	19.8	35.11	581.6	402.8	288.5	253.4	35.18	8.201		
9,100.0	8,036.0	8,756.8	7,800.0	33.2	20.9	34.60	681.5	398.6	286.8	250.6	36.21	7.920		
9,200.0	8,036.0	8,856.7	7,800.0	34.0	22.1	34.09	781.3	394.4	285.0	247.7	37.29	7.644		
9,300.0	8,036.0	8,956.7	7,800.0	34.8	23.4	33.57	881.2	390.3	283.3	244.9	38.41	7.377		
9,400.0	8,036.0	9,056.6	7,800.0	35.7	24.7	33.05	981.1	386.1	281.6	242.1	39.56	7.119		
9,500.0	8,036.0	9,156.6	7,800.0	36.7	26.1	32.52	1,080.9	381.9	279.9	239.2	40.73	6.873		
9,600.0	8,036.0	9,256.5	7,800.0	37.7	27.5	31.99	1,180.8	377.8	278.3	236.4	41.92	6.639		
9,700.0	8,036.0	9,356.5	7,800.0	38.7	28.9	31.44	1,280.7	373.6	276.7	233.6	43.11	6.417		
9,800.0	8,036.0	9,456.4	7,800.0	39.8	30.4	30.89	1,380.5	369.4	275.1	230.8	44.31	6.208		
9,900.0	8,036.0	9,556.4	7,800.0	40.9	32.0	30.34	1,480.4	365.3	273.5	228.0	45.50	6.011		
10,000.0	8,036.0	9,656.3	7,800.0	42.0	33.5	29.78	1,580.3	361.1	271.9	225.3	46.68	5.826		
10,100.0	8,036.0	9,756.3	7,800.0	43.2	35.0	29.21	1,680.1	356.9	270.4	222.6	47.84	5.652		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #3													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		
10,200.0	8,036.0	9,856.2	7,800.0	44.4	36.6	28.64	1,780.0	352.7	268.9	219.9	48.99	5.489		
10,300.0	8,036.0	9,956.2	7,800.0	45.6	38.2	28.06	1,879.9	348.6	267.5	217.3	50.12	5.337		
10,400.0	8,036.0	10,056.1	7,800.0	46.8	39.8	27.47	1,979.7	344.4	266.0	214.8	51.22	5.194		
10,500.0	8,036.0	10,156.1	7,800.0	48.1	41.4	26.88	2,079.6	340.2	264.6	212.3	52.29	5.060		
10,600.0	8,036.0	10,256.0	7,800.0	49.4	43.1	26.28	2,179.5	336.1	263.2	209.9	53.33	4.935		
10,700.0	8,036.0	10,356.0	7,800.0	50.7	44.7	25.67	2,279.3	331.9	261.9	207.5	54.35	4.819		
10,800.0	8,036.0	10,456.0	7,800.0	52.0	46.4	25.06	2,379.2	327.7	260.5	205.2	55.33	4.709		
10,900.0	8,036.0	10,555.9	7,800.0	53.3	48.0	24.44	2,479.1	323.6	259.3	203.0	56.27	4.607		
11,000.0	8,036.0	10,655.9	7,800.0	54.7	49.7	23.82	2,578.9	319.4	258.0	200.8	57.17	4.512		
11,100.0	8,036.0	10,755.8	7,800.0	56.0	51.3	23.19	2,678.8	315.2	256.8	198.7	58.04	4.424		
11,200.0	8,036.0	10,855.8	7,800.0	57.4	53.0	22.55	2,778.6	311.0	255.6	196.7	58.87	4.341		
11,300.0	8,036.0	10,955.7	7,800.0	58.8	54.7	21.91	2,878.5	306.9	254.4	194.7	59.66	4.264		
11,400.0	8,036.0	11,055.7	7,800.0	60.2	56.4	21.26	2,978.4	302.7	253.3	192.8	60.42	4.192		
11,500.0	8,036.0	11,155.6	7,800.0	61.6	58.1	20.61	3,078.2	298.5	252.1	191.0	61.13	4.125		
11,600.0	8,036.0	11,255.6	7,800.0	63.0	59.7	19.95	3,178.1	294.4	251.1	189.3	61.80	4.063		
11,700.0	8,036.0	11,355.5	7,800.0	64.4	61.4	19.54	3,278.0	290.2	250.4	187.7	62.74	3.992		
11,762.5	8,036.0	11,418.0	7,800.0	65.3	62.5	19.46	3,340.4	287.6	250.3	186.8	63.55	3.939		
11,800.0	8,036.0	11,455.5	7,800.0	65.8	63.1	19.49	3,377.9	286.0	250.3	186.2	64.13	3.904		
11,900.0	8,036.0	11,555.5	7,800.0	67.3	64.8	19.81	3,477.8	281.9	250.9	184.8	66.02	3.800		
12,000.0	8,036.0	11,655.5	7,800.0	68.8	66.5	20.50	3,577.7	277.7	252.0	183.5	68.46	3.681		
12,100.0	8,036.0	11,755.4	7,800.0	70.3	68.2	21.55	3,677.5	273.5	253.8	182.3	71.47	3.551		
12,200.0	8,036.0	11,855.1	7,800.0	71.8	70.0	22.92	3,777.1	269.4	256.4	181.2	75.10	3.413		
12,300.0	8,036.0	11,954.8	7,800.0	73.4	71.7	24.61	3,876.7	265.2	259.8	180.4	79.38	3.273		
12,400.0	8,036.0	12,054.3	7,800.0	75.0	73.4	26.44	3,976.1	261.0	263.8	179.8	83.98	3.141		
12,500.0	8,036.0	12,151.7	7,800.0	76.5	75.0	28.21	4,073.5	257.9	268.1	179.4	88.77	3.021		
12,600.0	8,036.0	12,248.9	7,800.0	78.1	76.7	30.21	4,170.6	256.4	273.6	179.5	94.11	2.907		
12,700.0	8,036.0	12,345.6	7,800.0	79.7	78.4	32.40	4,267.4	256.5	280.3	180.3	99.95	2.804		
12,800.0	8,036.0	12,443.8	7,800.0	81.2	80.1	34.73	4,365.6	257.9	288.1	182.0	106.10	2.716		
12,900.0	8,036.0	12,542.8	7,800.0	82.8	81.8	36.97	4,464.5	259.4	296.5	184.3	112.17	2.643		
13,000.0	8,036.0	12,641.8	7,800.0	84.4	83.5	39.08	4,563.5	260.8	305.2	187.1	118.13	2.584		
13,100.0	8,036.0	12,740.8	7,800.0	86.0	85.2	41.07	4,662.5	262.3	314.4	190.5	123.95	2.537		
13,200.0	8,036.0	12,839.8	7,800.0	87.6	86.9	42.95	4,761.5	263.8	323.9	194.3	129.64	2.499		
13,300.0	8,036.0	12,938.8	7,800.0	89.2	88.6	44.72	4,860.5	265.3	333.8	198.6	135.20	2.469		
13,400.0	8,036.0	13,037.8	7,800.0	90.8	90.3	46.39	4,959.5	266.7	344.0	203.3	140.63	2.446		
13,500.0	8,036.0	13,136.7	7,800.0	92.4	92.1	47.96	5,058.4	268.2	354.4	208.5	145.93	2.429		
13,600.0	8,036.0	13,235.7	7,800.0	94.1	93.8	49.44	5,157.4	269.7	365.1	214.0	151.10	2.416		
13,700.0	8,036.0	13,334.7	7,800.0	95.7	95.5	50.84	5,256.4	271.2	376.0	219.8	156.16	2.408		
13,800.0	8,036.0	13,433.7	7,800.0	97.3	97.2	52.17	5,355.4	272.7	387.1	226.0	161.10	2.403		
13,900.0	8,036.0	13,532.9	7,800.0	98.9	98.9	53.37	5,454.5	274.1	397.5	231.7	165.78	2.398		
14,000.0	8,036.0	13,632.2	7,800.0	100.5	100.7	54.37	5,553.9	275.6	406.6	236.4	170.13	2.390		
14,100.0	8,036.0	13,731.8	7,800.0	102.1	102.4	55.18	5,653.4	277.1	414.3	240.1	174.20	2.378		
14,200.0	8,036.0	13,831.5	7,800.0	103.7	104.1	55.82	5,753.1	278.6	420.7	242.7	178.01	2.363		
14,300.0	8,036.0	13,931.3	7,800.0	105.3	105.8	56.30	5,852.9	280.1	425.7	244.2	181.59	2.345		
14,400.0	8,036.0	14,031.2	7,800.0	106.8	107.6	56.64	5,952.8	281.6	429.3	244.4	184.93	2.321		
14,500.0	8,036.0	14,131.2	7,800.0	108.3	109.3	56.83	6,052.8	283.1	431.4	243.4	188.06	2.294		
14,600.0	8,036.0	14,231.2	7,800.0	109.8	111.1	56.90	6,152.8	284.6	432.1	241.1	190.95	2.263		
14,700.0	8,036.0	14,331.2	7,800.0	111.3	112.8	56.88	6,252.7	286.1	431.9	238.2	193.71	2.230		
14,800.0	8,036.0	14,431.2	7,800.0	112.8	114.5	56.86	6,352.7	287.5	431.7	235.2	196.47	2.197		
14,900.0	8,036.0	14,531.2	7,800.0	114.3	116.3	56.84	6,452.7	289.0	431.5	232.2	199.22	2.166		
15,000.0	8,036.0	14,631.2	7,800.0	115.9	118.0	56.82	6,552.7	290.5	431.3	229.3	201.98	2.135		
15,100.0	8,036.0	14,731.2	7,800.0	117.4	119.8	56.80	6,652.7	292.0	431.0	226.3	204.74	2.105		
15,200.0	8,036.0	14,831.2	7,800.0	118.9	121.5	56.79	6,752.7	293.5	430.8	223.3	207.50	2.076		

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - Pratt 4F-29H-P168 - Hz - Plan #3													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		
15,300.0	8,036.0	14,931.2	7,800.0	120.4	123.2	56.77	6,852.7	295.0	430.6	220.4	210.26	2.048		
15,400.0	8,036.0	15,031.2	7,800.0	121.9	125.0	56.75	6,952.7	296.5	430.4	217.4	213.03	2.020		
15,500.0	8,036.0	15,131.2	7,800.0	123.4	126.7	56.73	7,052.6	298.0	430.2	214.4	215.79	1.994		
15,600.0	8,036.0	15,231.2	7,800.0	124.9	128.5	56.71	7,152.6	299.5	430.0	211.4	218.55	1.967		
15,700.0	8,036.0	15,331.2	7,800.0	126.4	130.2	56.69	7,252.6	301.0	429.8	208.5	221.31	1.942		
15,800.0	8,036.0	15,431.2	7,800.0	128.0	132.0	56.68	7,352.6	302.5	429.6	205.5	224.08	1.917		
15,900.0	8,036.0	15,531.2	7,800.0	129.5	133.7	56.66	7,452.6	304.0	429.4	202.5	226.84	1.893		
16,000.0	8,036.0	15,631.2	7,800.0	131.0	135.5	56.64	7,552.6	305.5	429.1	199.5	229.60	1.869		
16,100.0	8,036.0	15,731.2	7,800.0	132.5	137.2	56.62	7,652.6	307.0	428.9	196.6	232.37	1.846		
16,200.0	8,036.0	15,831.2	7,800.0	134.1	138.9	56.60	7,752.6	308.4	428.7	193.6	235.13	1.823		
16,300.0	8,036.0	15,931.2	7,800.0	135.6	140.7	56.58	7,852.6	309.9	428.5	190.6	237.89	1.801		
16,400.0	8,036.0	16,031.2	7,800.0	137.1	142.4	56.56	7,952.5	311.4	428.3	187.6	240.66	1.780		
16,500.0	8,036.0	16,131.2	7,800.0	138.6	144.2	56.55	8,052.5	312.9	428.1	184.7	243.42	1.759		
16,600.0	8,036.0	16,231.2	7,800.0	140.2	145.9	56.53	8,152.5	314.4	427.9	181.7	246.19	1.738		
16,700.0	8,036.0	16,331.2	7,800.0	141.7	147.7	56.51	8,252.5	315.9	427.7	178.7	248.95	1.718		
16,800.0	8,036.0	16,431.2	7,800.0	143.2	149.4	56.49	8,352.5	317.4	427.5	175.8	251.71	1.698		
16,900.0	8,036.0	16,531.2	7,800.0	144.7	151.2	56.47	8,452.5	318.9	427.3	172.8	254.48	1.679		
17,000.0	8,036.0	16,631.2	7,800.0	146.3	152.9	56.45	8,552.5	320.4	427.0	169.8	257.24	1.660		
17,100.0	8,036.0	16,731.2	7,800.0	147.8	154.7	56.43	8,652.5	321.9	426.8	166.8	260.00	1.642		
17,200.0	8,036.0	16,831.2	7,800.0	149.3	156.4	56.41	8,752.4	323.4	426.6	163.9	262.76	1.624		
17,300.0	8,036.0	16,931.2	7,800.0	150.9	158.1	56.40	8,852.4	324.9	426.4	160.9	265.53	1.606		
17,400.0	8,036.0	17,031.2	7,800.0	152.4	159.9	56.38	8,952.4	326.4	426.2	157.9	268.29	1.589		
17,482.6	8,036.0	17,112.8	7,800.0	153.7	161.3	56.36	9,034.1	327.6	426.0	155.5	270.55	1.575 SF		
17,500.0	8,036.0	17,112.8	7,800.0	154.0	161.3	56.36	9,034.1	327.6	426.4	155.9	270.48	1.576		
17,600.0	8,036.0	17,112.8	7,800.0	155.5	161.3	56.36	9,034.1	327.6	441.9	179.7	262.20	1.685		
17,700.0	8,036.0	17,112.8	7,800.0	157.0	161.3	56.36	9,034.1	327.6	478.3	234.3	244.03	1.960		
17,800.0	8,036.0	17,112.8	7,800.0	158.6	161.3	56.36	9,034.1	327.6	531.3	309.4	221.85	2.395		
17,900.0	8,036.0	17,112.8	7,800.0	159.8	161.3	56.36	9,034.1	327.6	596.5	396.6	199.91	2.984		
17,909.9	8,036.0	17,112.8	7,800.0	159.9	161.3	56.36	9,034.1	327.6	603.4	405.6	197.86	3.050		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	90.05	0.0	19.6	19.6					
100.0	100.0	99.9	99.9	0.1	0.1	90.16	-0.1	19.8	19.8	19.5	0.28	71.971		
200.0	200.0	199.9	199.9	0.5	0.3	90.41	-0.1	20.4	20.4	19.6	0.79	25.907		
300.0	300.0	299.9	299.9	0.8	0.5	-72.50	-0.1	21.0	20.4	19.1	1.31	15.608		
400.0	399.8	399.8	399.7	1.2	0.7	-84.61	-0.9	21.8	20.0	18.2	1.83	10.938		
417.4	417.2	417.1	417.1	1.2	0.7	-87.20	-1.2	21.9	20.0	18.1	1.92	10.395 ES		
500.0	499.5	499.5	499.4	1.5	0.8	-101.22	-3.3	23.2	20.8	18.4	2.37	8.757		
600.0	598.7	599.0	598.8	1.9	1.0	-117.56	-7.1	26.4	24.8	21.8	2.94	8.433		
700.0	697.5	698.8	698.3	2.3	1.2	-128.19	-12.7	32.0	32.0	28.5	3.53	9.052		
800.0	795.6	798.7	797.5	2.8	1.5	-133.59	-20.9	40.1	41.0	36.9	4.17	9.830		
900.0	893.5	897.9	895.7	3.2	1.8	-135.34	-30.3	50.5	51.2	46.4	4.83	10.590		
1,000.0	991.3	996.7	993.7	3.7	2.0	-137.28	-38.6	60.4	62.2	56.7	5.48	11.344		
1,100.0	1,089.1	1,097.3	1,093.4	4.1	2.3	-138.76	-47.5	70.2	72.8	66.6	6.16	11.815		
1,200.0	1,186.9	1,196.9	1,191.7	4.6	2.6	-138.10	-58.0	81.9	82.4	75.5	6.88	11.977		
1,300.0	1,284.8	1,295.5	1,289.0	5.0	2.9	-136.96	-68.2	94.7	92.7	85.1	7.61	12.176		
1,400.0	1,382.6	1,393.8	1,386.0	5.5	3.2	-135.97	-77.6	107.9	103.8	95.5	8.35	12.431		
1,500.0	1,480.4	1,492.8	1,483.7	6.0	3.6	-135.27	-85.9	121.4	116.1	107.0	9.09	12.774		
1,600.0	1,578.3	1,594.9	1,584.6	6.4	3.9	-135.39	-95.1	133.4	127.3	117.5	9.82	12.956		
1,700.0	1,676.1	1,695.0	1,683.6	6.9	4.2	-135.72	-105.6	143.9	136.5	125.9	10.54	12.949		
1,800.0	1,773.9	1,793.1	1,780.7	7.4	4.5	-135.97	-115.3	154.7	146.5	135.2	11.24	13.033		
1,900.0	1,871.7	1,895.5	1,881.9	7.9	4.8	-136.28	-125.3	165.6	156.4	144.4	11.97	13.068		
2,000.0	1,969.6	1,994.6	1,979.8	8.3	5.1	-136.25	-136.8	176.4	164.8	152.1	12.70	12.983		
2,100.0	2,067.4	2,092.0	2,076.0	8.8	5.4	-136.19	-147.1	187.5	174.3	160.9	13.41	13.000		
2,200.0	2,165.2	2,190.2	2,173.1	9.3	5.7	-136.19	-156.4	199.0	184.9	170.8	14.13	13.085		
2,300.0	2,263.1	2,288.5	2,270.3	9.8	6.0	-136.15	-165.3	210.8	196.0	181.2	14.86	13.195		
2,400.0	2,360.9	2,386.4	2,367.1	10.2	6.3	-136.06	-173.7	222.9	207.8	192.2	15.58	13.338		
2,500.0	2,458.7	2,490.3	2,469.9	10.7	6.7	-136.17	-183.1	234.8	218.7	202.4	16.33	13.395		
2,600.0	2,556.6	2,588.7	2,567.2	11.2	7.0	-136.39	-192.5	245.3	228.9	211.9	17.03	13.445		
2,700.0	2,654.4	2,686.7	2,664.2	11.7	7.3	-136.50	-201.4	256.3	239.7	222.0	17.73	13.518		
2,800.0	2,752.2	2,786.8	2,763.3	12.1	7.6	-136.63	-210.1	267.7	251.0	232.5	18.45	13.603		
2,900.0	2,850.0	2,890.7	2,866.1	12.6	7.9	-136.86	-220.5	278.4	260.5	241.3	19.18	13.585		
3,000.0	2,947.9	2,991.8	2,966.2	13.1	8.2	-137.18	-230.9	288.1	269.7	249.8	19.88	13.570		
3,100.0	3,045.7	3,094.4	3,067.6	13.6	8.5	-137.32	-243.2	298.2	277.3	256.7	20.60	13.460		
3,200.0	3,143.5	3,191.9	3,163.9	14.0	8.8	-137.44	-254.7	307.8	285.1	263.8	21.30	13.388		
3,300.0	3,241.4	3,288.9	3,259.9	14.5	9.1	-137.64	-265.2	317.3	293.8	271.8	21.99	13.362		
3,400.0	3,339.2	3,387.0	3,356.7	15.0	9.5	-137.46	-275.8	329.0	303.3	280.6	22.74	13.340		
3,500.0	3,437.1	3,485.7	3,454.1	15.5	9.8	-137.32	-286.2	340.9	312.9	289.5	23.47	13.331		
3,600.0	3,535.4	3,584.9	3,552.2	15.9	10.1	-137.13	-296.0	351.7	320.9	296.7	24.19	13.263		
3,700.0	3,634.4	3,679.8	3,646.3	16.3	10.3	-136.74	-304.4	361.4	326.9	302.0	24.87	13.145		
3,800.0	3,733.7	3,776.8	3,742.4	16.7	10.6	-135.95	-311.7	371.8	331.9	306.3	25.59	12.972		
3,900.0	3,833.5	3,880.9	3,845.4	17.1	11.0	-134.36	-320.3	384.3	334.4	308.0	26.41	12.663		
4,000.0	3,933.4	3,987.5	3,950.6	17.4	11.3	-132.04	-331.5	397.3	332.8	305.5	27.29	12.193		
4,100.0	4,033.4	4,080.8	4,042.6	17.7	11.6	28.89	-341.8	409.0	329.2	301.2	28.06	11.733		
4,200.0	4,133.4	4,184.4	4,144.8	17.9	12.0	31.78	-353.0	421.6	326.1	297.2	28.89	11.288		
4,300.0	4,233.4	4,281.8	4,240.9	18.2	12.3	34.50	-363.7	433.0	323.2	293.5	29.64	10.905		
4,400.0	4,333.4	4,379.1	4,337.2	18.5	12.6	37.07	-373.5	443.7	321.4	291.1	30.35	10.592		
4,490.0	4,423.4	4,466.1	4,423.4	18.7	12.8	39.18	-381.2	452.7	320.9	290.0	30.94	10.373		
4,500.0	4,433.4	4,476.0	4,433.1	18.7	12.9	39.41	-382.1	453.7	320.9	289.9	31.01	10.350		
4,600.0	4,533.4	4,574.4	4,530.4	19.0	13.2	42.02	-391.2	465.1	321.4	289.7	31.70	10.139		
4,700.0	4,633.4	4,673.1	4,628.0	19.3	13.5	44.75	-400.9	477.1	322.7	290.3	32.36	9.971		
4,800.0	4,733.4	4,771.5	4,725.4	19.6	13.8	47.13	-409.1	488.0	324.8	291.8	32.97	9.852		
4,900.0	4,833.4	4,870.4	4,823.1	19.8	14.1	49.75	-418.5	499.9	327.6	294.0	33.59	9.753		

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 4E-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 4E-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 #5	<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		
5,000.0	4,933.4	4,971.3	4,922.8	20.1	14.5	52.43	-428.3	512.2	331.0	296.8	34.19	9.680		
5,100.0	5,033.4	5,073.9	5,024.0	20.4	14.8	55.28	-440.0	524.2	333.7	298.9	34.78	9.594		
5,200.0	5,133.4	5,172.5	5,121.3	20.7	15.1	57.97	-451.5	535.4	336.9	301.6	35.31	9.541		
5,300.0	5,233.4	5,271.8	5,219.4	21.0	15.4	60.45	-462.0	546.2	340.8	305.0	35.80	9.520		
5,400.0	5,333.4	5,370.5	5,317.1	21.3	15.7	62.69	-471.8	556.3	345.1	308.8	36.26	9.516		
5,500.0	5,433.4	5,468.0	5,413.6	21.6	16.1	64.94	-481.9	566.8	350.3	313.6	36.72	9.538		
5,600.0	5,533.4	5,561.8	5,506.0	21.9	16.4	67.38	-493.2	578.4	356.8	319.7	37.12	9.613		
5,700.0	5,633.4	5,660.4	5,603.0	22.2	16.7	69.71	-503.8	591.3	365.1	327.6	37.51	9.734		
5,800.0	5,733.4	5,761.6	5,703.1	22.5	17.0	71.76	-513.5	603.4	373.3	335.4	37.91	9.846		
5,900.0	5,833.4	5,862.8	5,803.3	22.8	17.3	73.58	-522.5	614.6	381.3	343.0	38.32	9.949		
6,000.0	5,933.4	5,961.5	5,900.9	23.1	17.7	75.39	-532.2	625.4	389.3	350.6	38.69	10.062		
6,100.0	6,033.4	6,062.6	6,001.1	23.4	17.9	77.04	-541.1	636.2	397.6	358.6	39.07	10.178		
6,200.0	6,133.4	6,155.7	6,093.3	23.7	18.2	78.42	-548.8	646.3	406.5	367.1	39.41	10.316		
6,300.0	6,233.4	6,255.7	6,192.2	24.0	18.5	79.90	-557.3	658.0	416.5	376.7	39.78	10.471		
6,400.0	6,333.4	6,354.1	6,289.6	24.3	18.8	81.31	-565.9	669.4	426.6	386.4	40.15	10.625		
6,500.0	6,433.4	6,458.7	6,393.2	24.6	19.1	82.72	-575.0	680.9	436.3	395.7	40.54	10.760		
6,600.0	6,533.4	6,557.9	6,491.4	24.9	19.4	84.02	-583.8	691.2	445.5	404.6	40.92	10.889		
6,700.0	6,633.4	6,657.0	6,589.4	25.2	19.8	85.44	-594.0	701.6	455.2	413.9	41.28	11.028		
6,800.0	6,733.4	6,758.0	6,689.5	25.5	20.1	86.76	-603.8	711.6	464.4	422.8	41.65	11.152		
6,900.0	6,833.4	6,848.4	6,778.9	25.9	20.3	87.90	-612.7	721.4	474.9	432.9	41.95	11.320		
7,000.0	6,933.4	6,940.2	6,869.7	26.2	20.6	88.84	-620.2	733.1	487.4	445.1	42.26	11.533		
7,100.0	7,033.4	7,041.3	6,969.7	26.5	20.9	89.55	-626.1	746.0	500.1	457.4	42.66	11.722		
7,200.0	7,133.4	7,130.9	7,058.5	26.8	21.2	89.83	-628.5	758.1	513.6	470.6	43.00	11.944		
7,300.0	7,233.4	7,219.2	7,145.6	27.1	21.4	89.55	-625.9	772.1	529.4	486.1	43.33	12.219		
7,400.0	7,333.4	7,338.3	7,261.0	27.5	21.4	87.66	-603.3	789.3	544.8	500.8	44.03	12.373		
7,500.0	7,432.9	7,438.0	7,355.3	27.7	21.4	84.37	-572.6	799.6	557.3	512.9	44.43	12.544		
7,600.0	7,530.2	7,519.8	7,431.2	28.0	21.3	82.34	-543.9	809.3	570.9	526.5	44.38	12.863		
7,700.0	7,623.4	7,632.0	7,533.1	28.2	21.3	81.06	-498.8	822.3	583.6	539.1	44.49	13.116		
7,800.0	7,710.8	7,730.9	7,620.1	28.4	21.1	80.68	-452.5	830.7	592.2	547.9	44.31	13.364		
7,900.0	7,790.5	7,825.0	7,697.8	28.6	21.0	80.71	-399.9	838.0	599.6	555.6	44.02	13.622		
8,000.0	7,861.0	7,932.7	7,780.7	28.7	20.8	81.43	-331.5	844.7	604.9	561.1	43.85	13.796		
8,100.0	7,921.0	8,020.0	7,842.3	28.9	20.7	82.38	-269.9	848.0	607.6	564.0	43.56	13.947		
8,200.0	7,969.3	8,105.0	7,893.7	29.1	20.6	83.29	-202.4	852.1	611.5	568.0	43.42	14.083		
8,300.0	8,005.0	8,201.7	7,943.7	29.3	20.6	84.64	-119.9	856.9	615.5	571.9	43.55	14.131		
8,400.0	8,027.3	8,300.1	7,981.4	29.5	20.7	85.95	-29.2	860.0	618.3	574.3	43.92	14.076		
8,500.0	8,035.9	8,397.4	8,008.4	29.8	20.9	87.49	64.3	863.3	621.7	577.1	44.52	13.963		
8,600.0	8,036.0	8,502.8	8,025.2	30.2	21.3	89.01	168.2	864.9	623.8	578.4	45.36	13.752		
8,700.0	8,036.0	8,606.3	8,032.0	30.7	21.7	89.63	271.4	866.0	625.8	579.3	46.48	13.464		
8,800.0	8,036.0	8,710.7	8,034.9	31.2	22.3	89.90	375.8	866.0	626.9	579.1	47.82	13.110		
8,900.0	8,036.0	8,820.6	8,034.5	31.8	23.1	89.86	485.7	865.3	627.4	578.0	49.36	12.710		
9,000.0	8,036.0	8,925.7	8,031.6	32.5	24.0	89.60	590.8	862.8	626.1	575.0	51.09	12.254		
9,100.0	8,036.0	9,030.0	8,028.6	33.2	24.9	89.32	694.9	859.8	624.3	571.3	52.97	11.785		
9,200.0	8,036.0	9,124.9	8,025.7	34.0	25.9	89.06	789.7	857.0	622.5	567.5	55.03	11.312		
9,300.0	8,036.0	9,228.1	8,022.1	34.8	27.0	88.72	892.9	854.2	620.9	563.7	57.18	10.859		
9,400.0	8,036.0	9,334.8	8,018.1	35.7	28.2	88.34	999.4	850.5	618.7	559.3	59.42	10.412		
9,500.0	8,036.0	9,444.1	8,017.2	36.7	29.5	88.25	1,108.5	844.9	614.6	552.9	61.73	9.957		
9,600.0	8,036.0	9,535.7	8,017.8	37.7	30.6	88.29	1,200.0	840.3	610.7	546.4	64.22	9.510		
9,700.0	8,036.0	9,625.8	8,017.7	38.7	31.8	88.28	1,290.1	837.6	608.7	541.9	66.79	9.113		
9,800.0	8,036.0	9,731.0	8,016.9	39.8	33.2	88.20	1,395.2	834.6	607.0	537.6	69.34	8.753		
9,900.0	8,036.0	9,833.7	8,017.3	40.9	34.6	88.23	1,497.8	830.6	604.1	532.2	71.97	8.394		
10,000.0	8,036.0	9,929.1	8,018.2	42.0	36.0	88.30	1,593.2	827.3	601.7	527.0	74.70	8.056		
10,099.7	8,036.0	10,016.7	8,017.0	43.2	37.2	88.18	1,680.8	825.2	600.5	523.0	77.51	7.747		

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 4E-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 4E-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 #5	<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		
10,100.0	8,036.0	10,017.0	8,017.0	43.2	37.3	88.18	1,681.1	825.1	600.5	522.9	77.52	7.746		
10,200.0	8,036.0	10,106.3	8,014.8	44.4	38.6	87.98	1,770.3	825.2	601.7	521.3	80.36	7.487		
10,300.0	8,036.0	10,213.1	8,010.8	45.6	40.2	87.61	1,877.0	825.6	603.3	520.1	83.15	7.255		
10,400.0	8,036.0	10,306.7	8,007.6	46.8	41.6	87.31	1,970.6	825.0	603.9	517.9	86.04	7.019		
10,500.0	8,036.0	10,392.7	8,004.4	48.1	43.0	87.01	2,056.6	826.5	606.9	518.0	88.97	6.822		
10,600.0	8,036.0	10,491.6	8,003.0	49.4	44.5	86.90	2,155.3	829.9	611.5	519.6	91.89	6.655		
10,700.0	8,036.0	10,606.1	8,003.7	50.7	46.3	86.99	2,269.9	832.3	614.7	519.9	94.79	6.484		
10,800.0	8,036.0	10,713.8	8,004.1	52.0	48.0	87.04	2,377.5	832.4	615.8	518.1	97.73	6.301		
10,900.0	8,036.0	10,806.7	8,003.8	53.3	49.5	87.01	2,470.4	832.4	616.9	516.2	100.76	6.123		
11,000.0	8,036.0	10,910.6	8,002.5	54.7	51.2	86.90	2,574.3	832.8	618.4	514.7	103.75	5.961		
11,100.0	8,036.0	11,017.0	8,000.7	56.0	52.9	86.74	2,680.7	832.2	619.1	512.3	106.73	5.800		
11,200.0	8,036.0	11,124.1	7,998.9	57.4	54.6	86.56	2,787.7	830.3	618.5	508.8	109.72	5.637		
11,300.0	8,036.0	11,224.7	7,996.1	58.8	56.2	86.29	2,888.3	827.8	617.3	504.5	112.75	5.475		
11,400.0	8,036.0	11,321.4	7,994.1	60.2	57.8	86.11	2,985.0	825.8	616.4	500.5	115.84	5.321		
11,500.0	8,036.0	11,423.7	7,992.9	61.6	59.5	85.99	3,087.3	824.1	615.9	497.0	118.90	5.180		
11,600.0	8,036.0	11,535.8	7,993.6	63.0	61.3	86.04	3,199.3	820.7	613.9	492.1	121.88	5.037		
11,699.7	8,036.0	11,629.6	7,994.5	64.4	62.9	86.11	3,293.0	817.0	612.2	487.1	125.07	4.895		
11,700.0	8,036.0	11,629.9	7,994.5	64.4	62.9	86.11	3,293.3	817.0	612.2	487.1	125.08	4.894		
11,800.0	8,036.0	11,718.7	7,995.5	65.8	64.4	86.21	3,382.1	815.2	614.0	485.7	128.34	4.784		
11,900.0	8,036.0	11,811.1	7,995.5	67.3	65.9	86.25	3,474.5	814.7	619.2	487.6	131.56	4.706		
12,000.0	8,036.0	11,907.7	7,993.4	68.8	67.5	86.09	3,571.0	814.9	626.9	492.1	134.75	4.652		
12,100.0	8,036.0	12,007.8	7,991.2	70.3	69.2	85.94	3,671.1	815.2	636.5	498.6	137.94	4.615		
12,200.0	8,036.0	12,108.1	7,991.3	71.8	70.9	86.02	3,771.4	815.5	647.7	506.5	141.17	4.588		
12,300.0	8,036.0	12,214.1	7,991.5	73.4	72.7	86.11	3,877.5	815.3	660.2	515.8	144.40	4.572		
12,400.0	8,036.0	12,313.4	7,993.1	75.0	74.3	86.32	3,976.7	814.5	672.6	524.9	147.68	4.554		
12,500.0	8,036.0	12,416.4	7,993.7	76.5	76.1	86.43	4,079.7	813.5	684.2	533.3	150.95	4.533		
12,600.0	8,036.0	12,520.3	7,992.8	78.1	77.8	86.42	4,183.6	811.7	695.2	541.0	154.20	4.508		
12,700.0	8,036.0	12,617.6	7,990.2	79.7	79.5	86.26	4,280.8	809.7	706.0	548.5	157.48	4.483		
12,800.0	8,036.0	12,716.7	7,987.0	81.2	81.1	86.06	4,379.9	807.7	716.9	556.1	160.74	4.460		
12,900.0	8,036.0	12,806.8	7,984.1	82.8	82.7	85.89	4,469.9	806.7	728.6	564.5	164.02	4.442		
13,000.0	8,036.0	12,901.0	7,981.9	84.4	84.3	85.78	4,564.0	806.5	741.2	573.9	167.29	4.431		
13,100.0	8,036.0	12,998.8	7,980.4	86.0	85.9	85.74	4,661.8	806.8	754.3	583.7	170.58	4.422		
13,200.0	8,036.0	13,097.7	7,979.5	87.6	87.6	85.74	4,760.7	807.3	767.5	593.7	173.88	4.414		
13,300.0	8,036.0	13,216.4	7,981.3	89.2	89.7	85.96	4,879.4	807.0	779.9	602.6	177.25	4.400		
13,400.0	8,036.0	13,334.6	7,985.1	90.8	91.7	86.29	4,997.5	803.0	788.9	608.3	180.56	4.369		
13,500.0	8,036.0	13,438.8	7,987.9	92.4	93.4	86.53	5,101.6	798.3	796.9	613.0	183.91	4.333		
13,600.0	8,036.0	13,537.6	7,989.8	94.1	95.1	86.70	5,200.3	793.6	804.7	617.4	187.28	4.297		
13,700.0	8,036.0	13,624.4	7,990.4	95.7	96.6	86.77	5,286.9	790.0	813.2	622.6	190.68	4.265		
13,800.0	8,036.0	13,715.6	7,989.7	97.3	98.2	86.76	5,378.1	787.6	823.3	629.2	194.03	4.243		
13,900.0	8,036.0	13,814.4	7,988.9	98.9	99.9	86.74	5,476.9	785.5	832.7	635.3	197.36	4.219		
14,000.0	8,036.0	13,902.5	7,988.7	100.5	101.4	86.76	5,565.0	784.1	840.9	640.2	200.66	4.191		
14,100.0	8,036.0	13,991.2	7,985.9	102.1	102.9	86.61	5,653.6	784.0	848.9	645.0	203.88	4.164		
14,200.0	8,036.0	14,088.1	7,981.1	103.7	104.6	86.32	5,750.4	784.5	856.0	648.9	207.11	4.133		
14,300.0	8,036.0	14,182.4	7,976.1	105.3	106.2	86.01	5,844.5	785.3	861.7	651.4	210.28	4.098		
14,400.0	8,036.0	14,283.7	7,971.6	106.8	107.9	85.73	5,945.7	786.7	866.2	652.7	213.51	4.057		
14,500.0	8,036.0	14,408.4	7,969.2	108.3	110.1	85.58	6,070.4	786.7	867.4	650.5	216.91	3.999		
14,600.0	8,036.0	14,513.5	7,968.7	109.8	111.9	85.54	6,175.5	784.8	864.9	644.8	220.15	3.929		
14,700.0	8,036.0	14,612.0	7,967.6	111.3	113.6	85.44	6,274.0	782.8	861.3	637.9	223.36	3.856		
14,800.0	8,036.0	14,716.5	7,966.0	112.8	115.4	85.32	6,378.4	780.6	857.6	631.0	226.57	3.785		
14,900.0	8,036.0	14,815.7	7,964.7	114.3	117.1	85.20	6,477.6	777.8	853.1	623.3	229.77	3.713		
15,000.0	8,036.0	14,907.2	7,963.9	115.9	118.7	85.13	6,569.1	776.4	850.0	617.0	232.97	3.648		
15,100.0	8,036.0	15,027.4	7,962.8	117.4	120.8	85.03	6,689.3	773.5	845.9	609.7	236.19	3.582		

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 4E-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 4E-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 #5	<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		
15,200.0	8,036.0	15,145.4	7,962.3	118.9	122.8	84.95	6,807.1	767.7	839.3	600.0	239.29	3.507		
15,300.0	8,036.0	15,229.6	7,962.7	120.4	124.2	84.94	6,891.2	763.4	832.4	589.8	242.63	3.431		
15,400.0	8,036.0	15,319.7	7,961.2	121.9	125.8	84.81	6,981.2	760.3	827.5	581.6	245.86	3.366		
15,500.0	8,036.0	15,415.1	7,959.9	123.4	127.4	84.69	7,076.6	757.8	823.2	574.1	249.07	3.305		
15,600.0	8,036.0	15,525.8	7,960.5	124.9	129.4	84.70	7,187.3	754.9	818.8	566.5	252.30	3.245		
15,700.0	8,036.0	15,606.6	7,960.6	126.4	130.8	84.69	7,268.0	752.8	814.5	558.9	255.55	3.187		
15,800.0	8,036.0	15,691.0	7,959.4	128.0	132.2	84.59	7,352.4	752.5	812.6	553.9	258.68	3.141		
15,900.0	8,036.0	15,783.5	7,958.2	129.5	133.8	84.50	7,444.8	753.6	812.1	550.3	261.83	3.102		
16,000.0	8,036.0	15,905.3	7,960.8	131.0	135.9	84.68	7,566.6	754.8	811.3	546.0	265.30	3.058		
16,100.0	8,036.0	16,007.3	7,961.3	132.5	137.7	84.70	7,668.6	753.5	808.2	539.6	268.57	3.009		
16,200.0	8,036.0	16,102.0	7,959.9	134.1	139.3	84.58	7,763.3	752.6	805.6	533.9	271.76	2.964		
16,300.0	8,036.0	16,183.7	7,958.8	135.6	140.8	84.49	7,845.0	753.0	804.5	529.7	274.85	2.927		
16,400.0	8,036.0	16,285.6	7,959.1	137.1	142.5	84.51	7,946.8	754.7	804.4	526.3	278.14	2.892		
16,500.0	8,036.0	16,385.9	7,959.6	138.6	144.3	84.55	8,047.2	756.1	804.0	522.6	281.42	2.857		
16,600.0	8,036.0	16,493.8	7,960.7	140.2	146.2	84.62	8,155.1	757.0	803.0	518.2	284.77	2.820		
16,700.0	8,036.0	16,586.5	7,959.7	141.7	147.8	84.54	8,247.7	757.6	802.1	514.1	287.94	2.785		
16,739.0	8,036.0	16,621.7	7,958.8	142.3	148.4	84.48	8,282.9	758.1	802.0	512.8	289.15	2.774		
16,800.0	8,036.0	16,679.2	7,957.3	143.2	149.4	84.37	8,340.4	759.1	802.2	511.1	291.06	2.756		
16,900.0	8,036.0	16,793.8	7,957.0	144.7	151.4	84.34	8,455.0	760.5	801.7	507.2	294.46	2.722		
17,000.0	8,036.0	16,902.1	7,956.8	146.3	153.3	84.31	8,563.3	760.2	799.6	501.9	297.75	2.686		
17,100.0	8,036.0	17,002.3	7,955.8	147.8	155.0	84.22	8,663.4	759.3	797.1	496.1	300.97	2.648		
17,200.0	8,036.0	17,094.0	7,955.4	149.3	156.6	84.18	8,755.2	758.9	795.0	490.8	304.18	2.614		
17,300.0	8,036.0	17,204.4	7,953.0	150.9	158.5	83.99	8,865.5	759.1	793.7	486.3	307.41	2.582		
17,400.0	8,036.0	17,307.7	7,952.8	152.4	160.3	83.95	8,968.8	757.3	790.3	479.6	310.66	2.544		
17,500.0	8,036.0	17,408.9	7,952.2	154.0	162.1	83.88	9,069.9	755.9	787.2	473.3	313.89	2.508		
17,600.0	8,036.0	17,502.5	7,950.7	155.5	163.7	83.75	9,163.5	754.5	784.2	467.1	317.09	2.473		
17,700.0	8,036.0	17,623.9	7,947.6	157.0	165.8	83.49	9,284.9	752.2	780.9	460.8	320.15	2.439		
17,800.0	8,036.0	17,685.0	7,946.1	158.6	166.9	83.35	9,345.9	749.6	776.5	453.2	323.30	2.402		
17,801.7	8,036.0	17,685.0	7,946.1	158.6	166.9	83.35	9,345.9	749.6	776.5	453.1	323.33	2.401 SF		
17,900.0	8,036.0	17,685.0	7,946.1	159.8	166.9	83.35	9,345.9	749.6	782.7	460.1	322.57	2.426		
17,909.9	8,036.0	17,685.0	7,946.1	159.9	166.9	83.35	9,345.9	749.6	784.0	461.7	322.22	2.433		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-1.63	328.3	-9.4	328.7						
100.0	100.0	92.0	92.0	0.1	0.2	-1.57	327.9	-9.0	328.0	327.7	0.30	1,103.081			
200.0	200.0	195.8	195.8	0.5	0.3	-1.34	326.2	-7.6	326.3	325.5	0.83	392.118			
300.0	300.0	300.5	300.5	0.8	0.5	-159.75	323.1	-7.2	325.0	323.7	1.36	238.896			
319.3	319.3	320.6	320.5	0.9	0.6	-159.89	322.3	-7.7	325.0	323.5	1.46	222.082 CC, ES			
400.0	399.8	403.2	402.9	1.2	0.7	-160.97	318.7	-12.2	325.8	323.9	1.89	172.176			
500.0	499.5	503.2	502.3	1.5	1.0	-163.26	313.5	-22.4	329.6	327.2	2.48	133.097			
600.0	598.7	597.9	595.8	1.9	1.3	-166.21	308.6	-36.4	337.9	334.8	3.12	108.312			
700.0	697.5	689.3	685.4	2.3	1.6	-169.59	304.6	-53.4	352.0	348.1	3.83	91.956			
800.0	795.6	778.0	771.9	2.8	1.9	-173.09	301.7	-72.9	372.6	368.0	4.59	81.231			
900.0	893.5	855.8	847.4	3.2	2.3	-176.14	300.9	-91.7	399.2	393.9	5.30	75.373			
1,000.0	991.3	943.4	932.1	3.7	2.7	-179.22	302.3	-114.0	429.7	423.7	6.01	71.456			
1,100.0	1,089.1	1,033.6	1,019.3	4.1	3.1	-178.05	304.2	-136.7	461.9	455.2	6.72	68.716			
1,200.0	1,186.9	1,119.7	1,102.6	4.6	3.5	-175.75	306.7	-158.7	495.7	488.3	7.41	66.907			
1,300.0	1,284.8	1,203.0	1,182.7	5.0	3.9	-173.71	309.8	-181.2	531.6	523.5	8.07	65.888			
1,400.0	1,382.6	1,280.7	1,257.2	5.5	4.3	-172.01	313.9	-202.8	569.8	561.1	8.68	65.676			
1,500.0	1,480.4	1,357.7	1,330.7	6.0	4.7	-170.51	319.9	-225.2	610.9	601.7	9.25	66.055			
1,600.0	1,578.3	1,446.9	1,415.8	6.4	5.2	-169.03	327.6	-251.0	653.2	643.3	9.91	65.916			
1,700.0	1,676.1	1,534.9	1,499.6	6.9	5.7	-167.75	335.3	-276.5	695.9	685.4	10.54	66.038			
1,800.0	1,773.9	1,626.7	1,587.1	7.4	6.2	-166.55	343.3	-303.3	738.9	727.7	11.19	66.033			
1,900.0	1,871.7	1,732.5	1,688.2	7.9	6.8	-165.32	351.3	-333.3	780.8	768.9	11.94	65.411			
2,000.0	1,969.6	1,828.1	1,779.7	8.3	7.3	-164.29	356.9	-360.2	821.7	809.0	12.62	65.121			
2,100.0	2,067.4	1,915.9	1,863.9	8.8	7.8	-163.47	362.6	-384.6	862.8	849.6	13.23	65.212			
2,200.0	2,165.2	2,011.8	1,956.0	9.3	8.3	-162.69	368.8	-410.4	903.7	889.8	13.90	65.030 SF			
2,300.0	2,263.1	2,085.0	2,026.3	9.8	8.6	-162.16	374.0	-430.2	945.1	930.7	14.40	65.631			
2,400.0	2,360.9	2,168.8	2,106.5	10.2	9.1	-161.58	380.5	-453.7	987.7	972.7	14.99	65.899			
2,500.0	2,458.7	2,248.8	2,182.8	10.7	9.6	-161.03	386.9	-477.1	1,031.5	1,015.9	15.55	66.326			
2,600.0	2,556.6	2,330.8	2,260.6	11.2	10.1	-160.50	393.9	-501.7	1,076.0	1,059.9	16.12	66.762			
2,700.0	2,654.4	2,437.8	2,362.4	11.7	10.7	-159.90	403.5	-533.2	1,120.6	1,103.8	16.87	66.436			
2,800.0	2,752.2	2,524.7	2,445.4	12.1	11.2	-159.45	410.3	-558.0	1,164.0	1,146.5	17.47	66.645			
2,900.0	2,850.0	2,647.0	2,562.6	12.6	11.8	-158.94	420.4	-591.6	1,207.0	1,188.7	18.29	65.979			
3,000.0	2,947.9	2,721.0	2,633.9	13.1	12.2	-158.73	426.8	-610.3	1,248.9	1,230.1	18.77	66.545			
3,100.0	3,045.7	2,817.6	2,727.0	13.6	12.6	-158.54	436.7	-634.2	1,291.5	1,272.1	19.39	66.602			
3,200.0	3,143.5	2,886.4	2,793.2	14.0	13.0	-158.40	443.7	-651.3	1,334.3	1,314.4	19.85	67.230			
3,300.0	3,241.4	2,952.0	2,856.0	14.5	13.4	-158.23	450.6	-669.4	1,378.9	1,358.6	20.28	68.002			
3,400.0	3,339.2	3,030.2	2,930.4	15.0	13.8	-158.01	459.1	-691.9	1,424.5	1,403.7	20.80	68.474			
3,500.0	3,437.1	3,132.3	3,027.1	15.5	14.5	-157.74	468.3	-722.9	1,469.9	1,448.3	21.54	68.236			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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		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)						
9,100.0	8,036.0	8,153.6	8,038.4	33.2	21.6	-87.30	2,053.0	-140.5	1,428.9	1,384.8	44.10	32.402		
9,200.0	8,036.0	8,155.6	8,040.4	34.0	21.6	-87.60	2,053.0	-140.5	1,332.4	1,288.0	44.39	30.015		
9,300.0	8,036.0	8,157.5	8,042.3	34.8	21.6	-87.90	2,053.1	-140.4	1,236.4	1,191.7	44.75	27.628		
9,400.0	8,036.0	8,159.4	8,044.2	35.7	21.6	-88.21	2,053.1	-140.4	1,141.2	1,096.0	45.21	25.244		
9,500.0	8,036.0	8,161.3	8,046.1	36.7	21.6	-88.51	2,053.2	-140.3	1,046.8	1,001.0	45.78	22.865		
9,600.0	8,036.0	8,163.2	8,048.0	37.7	21.6	-88.81	2,053.2	-140.3	953.6	907.1	46.52	20.497		
9,700.0	8,036.0	8,165.0	8,049.8	38.7	21.6	-89.10	2,053.2	-140.2	861.9	814.4	47.49	18.149		
9,800.0	8,036.0	8,166.9	8,051.7	39.8	21.6	-89.40	2,053.3	-140.2	772.2	723.4	48.77	15.833		
9,900.0	8,036.0	8,168.8	8,053.6	40.9	21.6	-89.70	2,053.3	-140.2	685.4	634.9	50.49	13.575		
10,000.0	8,036.0	8,170.6	8,055.4	42.0	21.6	-89.99	2,053.3	-140.1	602.7	549.9	52.80	11.415		
10,100.0	8,036.0	8,172.5	8,057.3	43.2	21.6	-90.28	2,053.4	-140.1	526.1	470.2	55.87	9.415		
10,200.0	8,036.0	8,174.3	8,059.1	44.4	21.6	-90.58	2,053.4	-140.0	458.5	398.7	59.76	7.672		
10,300.0	8,036.0	8,176.2	8,061.0	45.6	21.6	-90.87	2,053.4	-140.0	404.5	340.4	64.14	6.307		
10,400.0	8,036.0	8,178.0	8,062.8	46.8	21.6	-91.16	2,053.5	-139.9	370.3	302.4	67.85	5.457		
10,482.8	8,036.0	8,179.5	8,064.3	47.9	21.6	-91.40	2,053.5	-139.9	360.9	291.7	69.18	5.217 CC, ES, SF		
10,500.0	8,036.0	8,179.8	8,064.6	48.1	21.6	-91.45	2,053.5	-139.9	361.3	292.1	69.18	5.223		
10,600.0	8,036.0	8,181.6	8,066.4	49.4	21.6	-91.74	2,053.5	-139.8	379.4	312.0	67.41	5.629		
10,700.0	8,036.0	8,183.4	8,068.2	50.7	21.6	-92.02	2,053.6	-139.8	421.2	357.5	63.73	6.609		
10,800.0	8,036.0	8,185.2	8,070.0	52.0	21.6	-92.31	2,053.6	-139.8	480.4	420.7	59.75	8.040		
10,900.0	8,036.0	8,187.0	8,071.8	53.3	21.6	-92.59	2,053.6	-139.7	551.6	495.2	56.33	9.792		
11,000.0	8,036.0	8,188.8	8,073.6	54.7	21.6	-92.87	2,053.7	-139.7	630.6	576.9	53.65	11.753		
11,100.0	8,036.0	8,190.6	8,075.4	56.0	21.7	-93.16	2,053.7	-139.6	714.9	663.3	51.62	13.849		
11,200.0	8,036.0	8,192.4	8,077.1	57.4	21.7	-93.44	2,053.7	-139.6	802.8	752.7	50.09	16.027		
11,300.0	8,036.0	8,194.1	8,078.9	58.8	21.7	-93.72	2,053.8	-139.5	893.2	844.3	48.93	18.255		
11,400.0	8,036.0	8,195.9	8,080.7	60.2	21.7	-93.99	2,053.8	-139.5	985.5	937.5	48.04	20.514		
11,500.0	8,036.0	8,197.6	8,082.4	61.6	21.7	-94.27	2,053.8	-139.5	1,079.2	1,031.8	47.35	22.790		
11,600.0	8,036.0	8,199.4	8,084.2	63.0	21.7	-94.51	2,053.9	-139.4	1,173.9	1,127.0	46.81	25.076		
11,700.0	8,036.0	8,201.1	8,085.9	64.4	21.7	-94.53	2,053.9	-139.4	1,269.0	1,222.7	46.37	27.368		
11,800.0	8,036.0	8,202.7	8,087.5	65.8	21.7	-94.52	2,053.9	-139.3	1,364.4	1,318.4	46.00	29.663		
11,900.0	8,036.0	8,204.3	8,089.1	67.3	21.7	-94.48	2,054.0	-139.3	1,459.9	1,414.3	45.68	31.959		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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 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	16.49	280.1	82.9	292.4					
100.0	100.0	87.5	87.5	0.1	0.2	16.51	280.1	83.0	292.1	291.9	0.28	1,036.965		
200.0	200.0	187.6	187.6	0.5	0.3	16.56	280.0	83.2	292.1	291.3	0.82	358.123		
200.7	200.7	188.3	188.3	0.5	0.3	-141.80	280.0	83.2	292.1	291.3	0.82	356.458 CC, ES		
300.0	300.0	287.6	287.6	0.8	0.5	-141.91	279.9	83.7	293.5	292.1	1.34	219.537		
400.0	399.8	387.5	387.5	1.2	0.7	-142.35	279.6	84.3	297.6	295.7	1.86	159.884		
500.0	499.5	487.2	487.2	1.5	0.9	-143.12	279.4	85.0	304.4	302.0	2.40	127.035		
600.0	598.7	586.6	586.6	1.9	1.0	-144.15	279.0	86.0	314.2	311.2	2.94	106.857		
700.0	697.5	685.5	685.5	2.3	1.2	-145.40	278.6	87.1	326.9	323.4	3.49	93.619		
800.0	795.6	783.9	783.9	2.8	1.4	-146.81	278.2	88.4	342.6	338.6	4.05	84.495		
900.0	893.5	882.1	882.0	3.2	1.5	-148.37	277.6	89.8	360.0	355.4	4.61	78.113		
1,000.0	991.3	980.3	980.2	3.7	1.7	-149.75	277.1	91.4	377.5	372.4	5.16	73.108		
1,100.0	1,089.1	1,085.7	1,085.7	4.1	1.9	-151.13	275.8	93.0	394.7	388.9	5.74	68.790		
1,200.0	1,186.9	1,199.9	1,199.7	4.6	2.1	-152.78	271.1	92.1	408.9	402.6	6.33	64.611		
1,300.0	1,284.8	1,326.1	1,325.3	5.0	2.4	-154.71	259.2	88.9	417.9	411.0	6.95	60.106		
1,400.0	1,382.6	1,439.8	1,437.8	5.5	2.6	-156.36	243.0	85.8	422.5	415.0	7.54	56.045		
1,500.0	1,480.4	1,555.7	1,551.7	6.0	3.0	-158.26	222.5	80.6	423.9	415.8	8.12	52.190		
1,600.0	1,578.3	1,665.4	1,658.8	6.4	3.3	-160.10	199.4	75.4	422.1	413.4	8.69	48.575		
1,700.0	1,676.1	1,770.0	1,760.4	6.9	3.7	-162.09	175.5	68.9	419.0	409.8	9.25	45.275		
1,800.0	1,773.9	1,876.6	1,863.6	7.4	4.1	-164.24	149.3	61.8	414.7	404.8	9.83	42.172		
1,900.0	1,871.7	1,972.8	1,956.7	7.9	4.5	-166.01	125.6	56.9	410.5	400.1	10.41	39.446		
2,000.0	1,969.6	2,076.8	2,057.2	8.3	5.0	-167.92	99.5	51.9	406.4	395.4	11.01	36.918		
2,100.0	2,067.4	2,176.9	2,153.8	8.8	5.4	-169.75	73.6	47.6	401.8	390.2	11.62	34.581		
2,200.0	2,165.2	2,272.5	2,246.1	9.3	5.9	-171.49	49.4	43.8	398.1	385.8	12.24	32.511		
2,300.0	2,263.1	2,368.4	2,339.0	9.8	6.3	-173.30	25.9	39.4	395.7	382.8	12.89	30.693		
2,400.0	2,360.9	2,468.1	2,435.7	10.2	6.7	-175.16	1.9	35.1	394.2	380.7	13.57	29.054		
2,500.0	2,458.7	2,570.1	2,534.4	10.7	7.2	-177.15	-23.4	30.3	392.5	378.2	14.28	27.486		
2,600.0	2,556.6	2,666.8	2,627.9	11.2	7.6	-179.08	-47.7	25.7	391.0	376.0	15.01	26.041		
2,639.1	2,594.8	2,703.4	2,663.3	11.4	7.8	-179.84	-56.6	23.7	390.8	375.5	15.31	25.531		
2,700.0	2,654.4	2,761.5	2,719.7	11.7	8.0	-178.97	-70.6	20.4	391.1	375.3	15.77	24.795		
2,800.0	2,752.2	2,862.7	2,817.9	12.1	8.5	-176.98	-94.3	15.2	392.2	375.6	16.56	23.678		
2,900.0	2,850.0	2,963.7	2,915.7	12.6	9.0	-174.99	-119.0	10.3	392.8	375.4	17.40	22.578		
3,000.0	2,947.9	3,065.4	3,013.9	13.1	9.4	-172.73	-144.9	3.9	393.6	375.3	18.29	21.514		
3,100.0	3,045.7	3,163.5	3,108.5	13.6	9.9	-170.60	-170.0	-1.8	394.5	375.3	19.19	20.551		
3,200.0	3,143.5	3,256.7	3,198.6	14.0	10.3	-168.63	-193.2	-7.4	396.8	376.7	20.11	19.732		
3,300.0	3,241.4	3,355.1	3,293.7	14.5	10.8	-166.51	-217.1	-14.3	400.6	379.5	21.07	19.011		
3,400.0	3,339.2	3,464.6	3,399.5	15.0	11.3	-164.15	-245.2	-21.2	403.5	381.4	22.12	18.238		
3,500.0	3,437.1	3,560.2	3,491.4	15.5	11.8	-162.06	-270.6	-27.1	406.0	382.8	23.14	17.544		
3,600.0	3,535.4	3,658.3	3,586.1	15.9	12.3	-160.01	-295.5	-32.4	406.9	382.8	24.15	16.851		
3,700.0	3,634.4	3,753.3	3,678.1	16.3	12.7	-157.99	-318.5	-37.2	405.8	380.7	25.14	16.140		
3,800.0	3,733.7	3,851.6	3,773.3	16.7	13.2	-155.59	-342.5	-42.9	402.5	376.3	26.21	15.355		
3,900.0	3,833.5	3,948.7	3,867.1	17.1	13.6	-152.81	-366.6	-49.3	397.1	369.7	27.33	14.529		
4,000.0	3,933.4	4,047.9	3,962.9	17.4	14.1	-149.55	-391.8	-55.9	389.3	360.8	28.50	13.661		
4,100.0	4,033.4	4,145.9	4,057.5	17.7	14.6	-155.60	-416.4	-61.9	379.8	350.1	29.65	12.810		
4,200.0	4,133.4	4,241.9	4,150.4	17.9	15.0	-159.08	-440.1	-67.1	370.8	340.0	30.74	12.060		
4,300.0	4,233.4	4,334.3	4,240.4	18.2	15.4	-162.19	-460.4	-71.6	364.1	332.4	31.72	11.479		
4,400.0	4,333.4	4,428.8	4,333.2	18.5	15.7	-165.00	-478.0	-76.0	359.9	327.3	32.60	11.040		
4,500.0	4,433.4	4,527.3	4,430.3	18.7	16.0	-167.63	-494.2	-79.9	356.8	323.4	33.43	10.674		
4,600.0	4,533.4	4,625.2	4,527.1	19.0	16.3	-169.93	-508.3	-83.0	354.6	320.4	34.18	10.375		
4,700.0	4,633.4	4,723.0	4,624.2	19.3	16.6	-171.91	-520.3	-85.8	353.3	318.5	34.85	10.139		
4,800.0	4,733.4	4,823.5	4,724.2	19.6	16.8	-173.43	-529.5	-87.8	352.5	317.1	35.44	9.945		
4,900.0	4,833.4	4,923.6	4,824.0	19.8	17.0	-174.58	-536.5	-88.8	351.5	315.5	35.99	9.765		

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 4E-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 4E-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 #5	<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 Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,000.0	4,933.4	5,021.2	4,921.4	20.1	17.2	-75.62	-542.8	-89.9	350.9	314.4	36.51	9.611		
5,017.0	4,950.4	5,037.7	4,937.9	20.2	17.2	-75.79	-543.9	-90.1	350.9	314.3	36.59	9.588		
5,100.0	5,033.4	5,117.4	5,017.4	20.4	17.3	-76.57	-548.4	-91.6	351.2	314.2	37.00	9.493		
5,200.0	5,133.4	5,220.6	5,120.6	20.7	17.5	-77.24	-552.2	-93.4	352.1	314.6	37.46	9.398		
5,300.0	5,233.4	5,321.0	5,220.9	21.0	17.6	-77.41	-553.3	-93.5	352.0	314.1	37.87	9.293		
5,308.0	5,241.3	5,328.9	5,228.8	21.0	17.6	-77.42	-553.3	-93.5	352.0	314.1	37.91	9.285		
5,400.0	5,333.4	5,420.2	5,320.2	21.3	17.7	-77.53	-554.0	-93.8	352.1	313.8	38.28	9.198		
5,500.0	5,433.4	5,518.7	5,418.7	21.6	17.8	-77.64	-554.5	-94.3	352.5	313.8	38.68	9.113		
5,600.0	5,533.4	5,617.3	5,517.2	21.9	17.9	-77.74	-555.0	-95.2	353.3	314.2	39.08	9.040		
5,700.0	5,633.4	5,717.3	5,617.2	22.2	18.0	-77.87	-555.5	-96.4	354.3	314.8	39.50	8.970		
5,800.0	5,733.4	5,817.4	5,717.3	22.5	18.1	-78.01	-556.2	-97.6	355.4	315.4	39.92	8.901		
5,900.0	5,833.4	5,917.8	5,817.8	22.8	18.2	-78.13	-556.7	-98.7	356.3	315.9	40.34	8.832		
6,000.0	5,933.4	6,018.1	5,918.0	23.1	18.3	-78.20	-557.0	-99.6	357.1	316.4	40.75	8.762		
6,100.0	6,033.4	6,117.7	6,017.6	23.4	18.4	-78.21	-556.9	-100.4	358.0	316.8	41.16	8.697		
6,200.0	6,133.4	6,217.4	6,117.3	23.7	18.5	-78.17	-556.4	-101.3	358.9	317.4	41.56	8.636		
6,300.0	6,233.4	6,317.4	6,217.3	24.0	18.6	-78.08	-555.7	-102.2	359.9	318.0	41.97	8.577		
6,400.0	6,333.4	6,418.3	6,318.2	24.3	18.7	-77.94	-554.6	-102.9	360.9	318.5	42.36	8.519		
6,500.0	6,433.4	6,520.1	6,419.9	24.6	18.7	-77.64	-552.7	-103.0	361.4	318.6	42.74	8.455		
6,600.0	6,533.4	6,620.9	6,520.7	24.9	18.8	-77.19	-549.9	-102.5	361.5	318.4	43.11	8.385		
6,700.0	6,633.4	6,721.4	6,621.2	25.2	18.8	-76.67	-546.7	-101.7	361.4	318.0	43.47	8.315		
6,725.7	6,659.1	6,746.8	6,646.6	25.3	18.9	-76.53	-545.8	-101.5	361.4	317.9	43.56	8.297		
6,800.0	6,733.4	6,818.2	6,717.9	25.5	18.9	-76.14	-543.4	-101.2	361.7	317.9	43.82	8.256		
6,900.0	6,833.4	6,914.2	6,813.8	25.9	19.0	-75.62	-539.8	-101.7	363.1	319.0	44.16	8.223		
7,000.0	6,933.4	7,011.1	6,910.6	26.2	19.0	-75.06	-535.8	-103.0	365.5	321.0	44.49	8.216		
7,100.0	7,033.4	7,108.1	7,007.5	26.5	19.1	-74.43	-531.1	-104.9	368.7	323.9	44.81	8.228		
7,200.0	7,133.4	7,207.9	7,107.1	26.8	19.1	-73.69	-525.5	-107.2	372.4	327.2	45.14	8.249		
7,300.0	7,233.4	7,307.9	7,206.9	27.1	19.1	-72.84	-519.1	-109.1	376.1	330.6	45.47	8.272		
7,400.0	7,333.4	7,410.3	7,309.0	27.5	19.2	-71.25	-512.0	-110.5	379.5	333.7	45.80	8.287		
7,500.0	7,432.9	7,512.7	7,411.1	27.7	19.2	-71.49	-504.5	-111.0	379.4	333.3	46.15	8.221		
7,600.0	7,530.2	7,613.4	7,511.5	28.0	19.2	-74.07	-496.9	-110.9	374.6	328.1	46.55	8.048		
7,700.0	7,623.4	7,711.8	7,609.7	28.2	19.3	-78.95	-489.6	-110.2	366.8	319.8	46.97	7.809		
7,800.0	7,710.8	7,804.5	7,702.3	28.4	19.4	-86.00	-485.3	-109.1	359.0	311.7	47.33	7.585		
7,870.2	7,767.6	7,863.4	7,761.1	28.5	19.4	-91.54	-484.1	-108.2	356.8	309.3	47.42	7.523 SF		
7,900.0	7,790.5	7,886.5	7,784.3	28.6	19.5	-93.86	-483.9	-107.8	357.3	309.9	47.41	7.535		
8,000.0	7,861.0	7,956.8	7,854.5	28.7	19.6	-100.88	-484.0	-106.6	368.1	321.0	47.08	7.819		
8,100.0	7,921.0	8,014.8	7,912.5	28.9	19.6	-105.79	-484.8	-105.4	396.0	349.7	46.33	8.548		
8,200.0	7,969.3	8,060.0	7,957.7	29.1	19.7	-107.76	-485.8	-104.4	442.1	396.7	45.41	9.737		
8,300.0	8,005.0	8,093.2	7,991.0	29.3	19.8	-106.37	-486.6	-103.7	504.0	459.5	44.56	11.312		
8,400.0	8,027.3	8,113.0	8,010.7	29.5	19.8	-100.77	-487.1	-103.2	577.9	534.0	43.88	13.171		
8,500.0	8,035.9	8,118.8	8,016.5	29.8	19.8	-90.33	-487.3	-103.1	659.7	616.4	43.37	15.213		
8,600.0	8,036.0	8,116.3	8,014.0	30.2	19.8	-88.45	-487.2	-103.2	746.3	703.3	43.01	17.352		
8,700.0	8,036.0	8,113.6	8,011.3	30.7	19.8	-88.02	-487.2	-103.2	835.8	793.0	42.76	19.544		
8,800.0	8,036.0	8,111.0	8,008.7	31.2	19.8	-87.59	-487.1	-103.3	927.4	884.8	42.60	21.771		
8,900.0	8,036.0	8,108.4	8,006.1	31.8	19.8	-87.17	-487.0	-103.3	1,020.7	978.2	42.49	24.023		
9,000.0	8,036.0	8,105.8	8,003.5	32.5	19.8	-86.75	-487.0	-103.4	1,115.0	1,072.6	42.41	26.292		
9,100.0	8,036.0	8,103.2	8,000.9	33.2	19.8	-86.33	-486.9	-103.5	1,210.3	1,168.0	42.36	28.573		
9,200.0	8,036.0	8,100.6	7,998.3	34.0	19.8	-85.91	-486.8	-103.5	1,306.3	1,264.0	42.33	30.864		
9,300.0	8,036.0	8,098.1	7,995.8	34.8	19.8	-85.49	-486.8	-103.6	1,402.9	1,360.6	42.30	33.161		
9,400.0	8,036.0	8,095.5	7,993.2	35.7	19.8	-85.08	-486.7	-103.6	1,499.8	1,457.6	42.29	35.463		

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 4E-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 4E-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 #5	<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									
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	17.80	276.5	88.8	291.5						
100.0	100.0	73.7	73.7	0.1	0.1	17.84	276.5	89.0	290.5	290.2	0.26	1,124.060 CC			
200.0	200.0	174.2	174.2	0.5	0.3	18.01	276.5	89.9	290.7	290.0	0.79	367.149 ES			
300.0	300.0	268.5	268.5	0.8	0.5	-140.23	276.7	91.5	292.9	291.5	1.32	222.329			
400.0	399.8	359.7	359.5	1.2	0.7	-140.03	278.6	95.9	300.3	298.5	1.87	160.623			
500.0	499.5	450.1	449.6	1.5	0.9	-139.70	282.2	103.3	313.4	310.9	2.45	128.044			
600.0	598.7	539.2	538.0	1.9	1.1	-139.33	287.5	113.3	331.8	328.7	3.04	108.985			
700.0	697.5	627.3	624.9	2.3	1.4	-138.91	294.5	125.7	355.6	351.9	3.66	97.181			
800.0	795.6	715.9	711.8	2.8	1.7	-138.43	302.7	140.9	384.1	379.8	4.30	89.282			
900.0	893.5	802.5	796.2	3.2	2.1	-138.21	311.7	158.0	415.7	410.7	4.94	84.061			
1,000.0	891.3	893.7	884.6	3.7	2.5	-137.81	321.9	177.9	448.6	443.0	5.61	79.942			
1,100.0	1,089.1	986.7	974.5	4.1	3.0	-137.35	332.4	199.1	482.1	475.8	6.30	76.558			
1,200.0	1,186.9	1,086.0	1,070.5	4.6	3.4	-136.84	343.1	222.3	515.3	508.2	7.03	73.346			
1,300.0	1,284.8	1,183.8	1,165.0	5.0	3.9	-136.32	352.5	245.5	547.6	539.8	7.76	70.579			
1,400.0	1,382.6	1,285.1	1,263.1	5.5	4.4	-135.81	361.4	269.5	579.2	570.7	8.53	67.941			
1,500.0	1,480.4	1,378.4	1,353.3	6.0	4.9	-135.31	368.8	292.2	610.3	601.0	9.27	65.842			
1,600.0	1,578.3	1,467.3	1,439.0	6.4	5.3	-134.83	376.2	314.4	642.0	632.0	9.99	64.284			
1,700.0	1,676.1	1,559.0	1,527.3	6.9	5.8	-134.39	384.6	337.5	674.6	663.9	10.72	62.938			
1,800.0	1,773.9	1,660.0	1,624.8	7.4	6.3	-133.99	393.7	362.6	707.1	695.6	11.50	61.475			
1,900.0	1,871.7	1,760.2	1,721.7	7.9	6.7	-133.65	401.9	386.7	738.4	726.1	12.28	60.140			
2,000.0	1,969.6	1,855.1	1,813.6	8.3	7.2	-133.39	409.6	409.2	769.5	756.5	13.02	59.088			
2,100.0	2,067.4	1,951.9	1,907.3	8.8	7.7	-133.13	417.4	432.2	800.6	786.8	13.79	58.065			
2,200.0	2,165.2	2,047.5	1,999.7	9.3	8.1	-132.83	424.4	455.5	831.5	816.9	14.55	57.131			
2,300.0	2,263.1	2,138.7	2,087.8	9.8	8.6	-132.54	431.2	478.1	862.6	847.3	15.30	56.391			
2,400.0	2,360.9	2,232.5	2,178.2	10.2	9.1	-132.22	438.3	502.2	894.1	878.1	16.06	55.684			
2,500.0	2,458.7	2,329.5	2,271.8	10.7	9.5	-131.95	445.5	526.5	925.3	908.5	16.83	54.996			
2,600.0	2,556.6	2,417.0	2,356.5	11.2	10.0	-131.79	452.9	547.5	957.1	939.5	17.52	54.625			
2,700.0	2,654.4	2,513.0	2,449.3	11.7	10.4	-131.65	461.4	570.4	989.0	970.8	18.28	54.110			
2,800.0	2,752.2	2,600.0	2,533.3	12.1	10.9	-131.49	468.7	591.7	1,020.8	1,001.9	18.99	53.770			
2,900.0	2,850.0	2,683.3	2,613.6	12.6	11.3	-131.34	476.2	612.5	1,053.6	1,033.9	19.65	53.612			
3,000.0	2,947.9	2,792.0	2,718.3	13.1	11.8	-131.17	486.9	639.6	1,086.9	1,066.4	20.51	53.002			
3,100.0	3,045.7	2,881.0	2,804.1	13.6	12.3	-131.01	494.8	662.0	1,119.4	1,098.2	21.23	52.726			
3,200.0	3,143.5	2,969.8	2,889.4	14.0	12.8	-130.84	502.9	685.0	1,152.6	1,130.6	21.95	52.511			
3,300.0	3,241.4	3,066.9	2,982.8	14.5	13.3	-130.66	512.0	710.1	1,185.9	1,163.2	22.73	52.170			
3,400.0	3,339.2	3,167.0	3,079.1	15.0	13.8	-130.48	520.8	736.0	1,218.8	1,195.2	23.54	51.781			
3,500.0	3,437.1	3,263.7	3,172.2	15.5	14.3	-130.46	529.0	760.9	1,251.2	1,226.9	24.32	51.453			
3,600.0	3,535.4	3,367.2	3,271.7	15.9	14.8	-130.65	537.3	787.9	1,281.8	1,256.6	25.13	51.009			
3,700.0	3,634.4	3,468.5	3,369.3	16.3	15.4	-130.65	544.5	814.5	1,309.5	1,283.6	25.89	50.585			
3,800.0	3,733.7	3,561.0	3,458.3	16.7	15.8	-130.56	551.1	838.7	1,335.0	1,308.5	26.55	50.291			
3,900.0	3,833.5	3,647.7	3,541.6	17.1	16.3	-130.40	557.6	861.5	1,359.0	1,331.8	27.11	50.123			
4,000.0	3,933.4	3,744.0	3,634.4	17.4	16.8	-130.11	566.0	886.2	1,381.5	1,353.8	27.70	49.865			
4,100.0	4,033.4	3,850.5	3,737.1	17.7	17.3	28.81	574.7	912.7	1,401.4	1,373.1	28.32	49.492			
4,200.0	4,133.4	3,942.6	3,826.0	17.9	17.8	29.50	582.1	935.7	1,420.9	1,392.1	28.80	49.328			
4,300.0	4,233.4	4,030.1	3,910.3	18.2	18.2	30.14	589.5	957.9	1,441.1	1,411.9	29.26	49.250			
4,400.0	4,333.4	4,120.7	3,997.4	18.5	18.7	30.80	597.2	981.6	1,462.1	1,432.4	29.74	49.165			
4,500.0	4,433.4	4,223.3	4,096.2	18.7	19.2	31.52	606.3	1,008.2	1,483.4	1,453.1	30.29	48.974			
7,900.0	7,790.5	7,871.7	7,731.9	28.6	24.8	46.62	690.2	1,163.1	1,465.2	1,419.8	45.41	32.267			
8,000.0	7,861.0	7,946.8	7,806.9	28.7	24.9	52.28	691.1	1,164.7	1,412.7	1,367.4	45.35	31.149			
8,100.0	7,921.0	8,011.6	7,871.7	28.9	24.9	59.17	691.7	1,165.7	1,354.7	1,309.5	45.21	29.963			
8,200.0	7,969.3	8,059.7	7,919.8	29.1	25.0	66.74	692.3	1,166.4	1,293.4	1,248.4	45.00	28.745			
8,300.0	8,005.0	8,095.6	7,955.7	29.3	25.0	74.57	692.7	1,167.0	1,231.1	1,186.4	44.74	27.515			
8,400.0	8,027.3	8,119.1	7,979.2	29.5	25.1	81.93	693.0	1,167.3	1,170.2	1,125.7	44.50	26.296			

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 4E-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 4E-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 #5	<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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
8,500.0	8,035.9	8,128.9	7,989.0	29.8	25.1	88.09	693.1	1,167.5	1,113.0	1,068.7	44.32	25.110		
8,600.0	8,036.0	8,130.2	7,990.3	30.2	25.1	88.76	693.1	1,167.5	1,061.6	1,017.3	44.31	23.962		
8,700.0	8,036.0	8,131.4	7,991.5	30.7	25.1	88.83	693.1	1,167.5	1,017.5	973.0	44.55	22.838		
8,800.0	8,036.0	8,132.6	7,992.7	31.2	25.1	88.90	693.2	1,167.5	981.7	936.5	45.14	21.747		
8,900.0	8,036.0	8,133.8	7,993.9	31.8	25.1	88.98	693.2	1,167.6	955.0	908.9	46.11	20.713		
9,000.0	8,036.0	8,135.0	7,995.1	32.5	25.1	89.05	693.2	1,167.6	938.3	890.8	47.43	19.783		
9,100.0	8,036.0	8,136.2	7,996.3	33.2	25.1	89.12	693.2	1,167.6	932.0	883.0	49.03	19.010		
9,108.4	8,036.0	8,136.3	7,996.4	33.3	25.1	89.13	693.2	1,167.6	932.0	882.8	49.17	18.953		
9,200.0	8,036.0	8,137.4	7,997.4	34.0	25.1	89.20	693.2	1,167.6	936.5	885.7	50.77	18.445		
9,300.0	8,036.0	8,138.5	7,998.6	34.8	25.1	89.27	693.2	1,167.6	951.5	899.0	52.52	18.116		
9,400.0	8,036.0	8,139.7	7,999.8	35.7	25.1	89.34	693.2	1,167.6	976.5	922.4	54.15	18.032 SF		
9,500.0	8,036.0	8,140.9	8,001.0	36.7	25.1	89.42	693.3	1,167.7	1,010.9	955.3	55.60	18.183		
9,600.0	8,036.0	8,142.1	8,002.2	37.7	25.1	89.49	693.3	1,167.7	1,053.7	996.9	56.81	18.547		
9,700.0	8,036.0	8,143.3	8,003.4	38.7	25.1	89.56	693.3	1,167.7	1,103.9	1,046.1	57.79	19.100		
9,800.0	8,036.0	8,144.5	8,004.6	39.8	25.1	89.63	693.3	1,167.7	1,160.5	1,102.0	58.57	19.815		
9,900.0	8,036.0	8,145.6	8,005.7	40.9	25.1	89.71	693.3	1,167.7	1,222.7	1,163.6	59.16	20.670		
10,000.0	8,036.0	8,146.8	8,006.9	42.0	25.1	89.78	693.3	1,167.8	1,289.7	1,230.1	59.59	21.642		
10,100.0	8,036.0	8,148.0	8,008.1	43.2	25.1	89.85	693.3	1,167.8	1,360.8	1,300.9	59.91	22.713		
10,200.0	8,036.0	8,149.2	8,009.3	44.4	25.1	89.92	693.4	1,167.8	1,435.3	1,375.1	60.13	23.868		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 31-29D - 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)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,400.0	8,036.0	8,250.8	8,062.0	60.2	28.2	-90.31	4,019.5	-809.7	1,460.7	1,399.5	61.20	23.866		
11,500.0	8,036.0	8,250.8	8,062.0	61.6	28.2	-90.31	4,019.5	-809.7	1,390.1	1,326.3	63.82	21.780		
11,600.0	8,036.0	8,250.8	8,062.0	63.0	28.2	-90.31	4,019.5	-809.7	1,323.3	1,256.5	66.79	19.814		
11,700.0	8,036.0	8,250.8	8,062.0	64.4	28.2	-90.32	4,019.5	-809.7	1,260.0	1,190.0	70.08	17.979		
11,800.0	8,036.0	8,250.8	8,062.0	65.8	28.2	-90.32	4,019.5	-809.7	1,200.3	1,126.6	73.69	16.289		
11,900.0	8,036.0	8,250.8	8,061.9	67.3	28.2	-90.32	4,019.5	-809.7	1,144.7	1,067.2	77.57	14.758		
12,000.0	8,036.0	8,250.7	8,061.9	68.8	28.2	-90.32	4,019.5	-809.7	1,094.0	1,012.3	81.66	13.397		
12,100.0	8,036.0	8,250.7	8,061.9	70.3	28.2	-90.32	4,019.5	-809.7	1,048.7	962.8	85.86	12.213		
12,200.0	8,036.0	8,250.7	8,061.8	71.8	28.2	-90.32	4,019.5	-809.7	1,009.6	919.6	90.04	11.213		
12,300.0	8,036.0	8,250.6	8,061.8	73.4	28.2	-90.32	4,019.5	-809.7	977.6	883.6	94.01	10.398		
12,400.0	8,036.0	8,250.5	8,061.7	75.0	28.2	-90.32	4,019.5	-809.7	954.3	856.7	97.57	9.780		
12,500.0	8,036.0	8,250.5	8,061.7	76.5	28.2	-90.31	4,019.5	-809.7	941.7	841.3	100.49	9.372		
12,568.6	8,036.0	8,250.4	8,061.6	77.6	28.2	-90.31	4,019.5	-809.7	939.2	837.2	102.02	9.207 CC		
12,600.0	8,036.0	8,250.4	8,061.6	78.1	28.2	-90.31	4,019.5	-809.7	939.8	837.2	102.58	9.162 ES		
12,700.0	8,036.0	8,250.4	8,061.5	79.7	28.2	-90.31	4,019.5	-809.7	948.4	844.6	103.74	9.142 SF		
12,800.0	8,036.0	8,250.3	8,061.5	81.2	28.2	-90.30	4,019.5	-809.7	967.3	863.4	103.97	9.304		
12,900.0	8,036.0	8,250.3	8,061.4	82.8	28.2	-90.30	4,019.5	-809.7	996.0	892.6	103.36	9.636		
13,000.0	8,036.0	8,250.2	8,061.4	84.4	28.2	-90.30	4,019.5	-809.7	1,033.6	931.5	102.07	10.126		
13,100.0	8,036.0	8,250.1	8,061.3	86.0	28.2	-90.29	4,019.5	-809.7	1,079.1	978.9	100.27	10.762		
13,200.0	8,036.0	8,250.1	8,061.2	87.6	28.2	-90.29	4,019.5	-809.7	1,131.7	1,033.6	98.14	11.532		
13,300.0	8,036.0	8,250.0	8,061.2	89.2	28.2	-90.29	4,019.5	-809.7	1,190.4	1,094.6	95.82	12.423		
13,400.0	8,036.0	8,250.0	8,061.1	90.8	28.2	-90.28	4,019.5	-809.7	1,254.3	1,160.9	93.43	13.426		
13,500.0	8,036.0	8,249.9	8,061.1	92.4	28.2	-90.28	4,019.5	-809.7	1,322.7	1,231.7	91.05	14.527		
13,600.0	8,036.0	8,249.8	8,061.0	94.1	28.2	-90.28	4,019.5	-809.7	1,395.0	1,306.2	88.74	15.719		
13,700.0	8,036.0	8,249.8	8,061.0	95.7	28.2	-90.27	4,019.5	-809.7	1,470.4	1,383.9	86.54	16.991		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 32-29D - SYNERGY - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 154-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		
10,000.0	8,036.0	8,157.6	8,043.1	42.0	21.2	-89.40	2,659.1	-774.7	1,475.7	1,420.4	55.33	26.671		
10,100.0	8,036.0	8,160.4	8,045.9	43.2	21.2	-89.56	2,659.2	-774.6	1,403.1	1,346.6	56.50	24.835		
10,200.0	8,036.0	8,163.2	8,048.7	44.4	21.2	-89.72	2,659.3	-774.5	1,334.0	1,276.2	57.80	23.079		
10,300.0	8,036.0	8,166.2	8,051.6	45.6	21.2	-89.89	2,659.4	-774.4	1,269.1	1,209.8	59.24	21.422		
10,400.0	8,036.0	8,169.1	8,054.6	46.8	21.2	-90.06	2,659.6	-774.4	1,208.9	1,148.1	60.80	19.883		
10,500.0	8,036.0	8,172.2	8,057.6	48.1	21.2	-90.24	2,659.7	-774.3	1,154.2	1,091.8	62.45	18.482		
10,600.0	8,036.0	8,175.3	8,060.7	49.4	21.2	-90.42	2,659.8	-774.2	1,105.9	1,041.8	64.15	17.240		
10,700.0	8,036.0	8,178.5	8,063.9	50.7	21.2	-90.60	2,659.9	-774.1	1,064.8	999.0	65.83	16.175		
10,800.0	8,036.0	8,181.7	8,067.2	52.0	21.2	-90.79	2,660.0	-774.0	1,031.8	964.4	67.43	15.302		
10,900.0	8,036.0	8,185.1	8,070.5	53.3	21.3	-90.99	2,660.2	-773.9	1,007.7	938.8	68.87	14.632		
11,000.0	8,036.0	8,188.5	8,073.9	54.7	21.3	-91.18	2,660.3	-773.9	993.0	923.0	70.08	14.171		
11,096.6	8,036.0	8,191.9	8,077.3	56.0	21.3	-91.38	2,660.5	-773.8	988.3	917.4	70.98	13.924 CC		
11,100.0	8,036.0	8,192.0	8,077.4	56.0	21.3	-91.39	2,660.5	-773.8	988.3	917.3	71.01	13.919 ES		
11,200.0	8,036.0	8,195.6	8,081.0	57.4	21.3	-91.60	2,660.6	-773.7	993.7	922.1	71.64	13.870 SF		
11,300.0	8,036.0	8,199.3	8,084.7	58.8	21.3	-91.81	2,660.8	-773.6	1,009.0	937.0	71.99	14.016		
11,400.0	8,036.0	8,203.1	8,088.5	60.2	21.3	-92.03	2,660.9	-773.5	1,033.8	961.7	72.07	14.344		
11,500.0	8,036.0	8,207.0	8,092.4	61.6	21.3	-92.26	2,661.1	-773.4	1,067.4	995.5	71.93	14.840		
11,600.0	8,036.0	8,211.0	8,096.4	63.0	21.3	-92.48	2,661.3	-773.4	1,109.0	1,037.4	71.60	15.489		
11,700.0	8,036.0	8,215.1	8,100.5	64.4	21.3	-92.70	2,661.4	-773.3	1,156.7	1,085.6	71.14	16.261		
11,800.0	8,036.0	8,219.3	8,104.7	65.8	21.3	-92.90	2,661.6	-773.2	1,209.5	1,138.9	70.57	17.138		
11,900.0	8,036.0	8,223.5	8,108.9	67.3	21.3	-93.11	2,661.8	-773.1	1,266.5	1,196.6	69.93	18.110		
12,000.0	8,036.0	8,227.9	8,113.2	68.8	21.3	-93.30	2,662.0	-773.0	1,327.3	1,258.0	69.25	19.166		
12,100.0	8,036.0	8,232.3	8,117.7	70.3	21.3	-93.50	2,662.2	-772.9	1,391.2	1,322.7	68.54	20.299		
12,200.0	8,036.0	8,236.9	8,122.2	71.8	21.3	-93.69	2,662.4	-772.9	1,458.0	1,390.2	67.81	21.501		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	-3.25	339.9	-19.3	340.7					
100.0	100.0	87.1	87.1	0.1	0.1	-3.26	339.9	-19.3	340.5	340.2	0.26	1,285.797 CC		
200.0	200.0	184.5	184.5	0.5	0.3	-3.27	340.3	-19.5	340.9	340.1	0.79	432.081 ES		
300.0	300.0	283.4	283.4	0.8	0.5	-161.81	341.4	-20.2	343.7	342.4	1.31	262.540		
400.0	399.8	384.3	384.3	1.2	0.7	-162.25	342.4	-21.5	349.7	347.9	1.83	190.611		
500.0	499.5	481.9	481.8	1.5	0.8	-162.86	343.3	-23.1	359.1	356.7	2.37	151.587		
600.0	598.7	579.9	579.8	1.9	1.0	-163.81	344.6	-26.3	372.4	369.5	2.91	127.826		
700.0	697.5	679.0	678.7	2.3	1.2	-165.09	345.7	-31.3	389.1	385.7	3.47	112.233		
800.0	795.6	773.5	773.1	2.8	1.4	-166.41	346.9	-36.8	409.6	405.6	4.03	101.653		
900.0	893.5	866.0	865.5	3.2	1.6	-167.65	348.9	-41.8	432.8	428.2	4.56	94.865		
1,000.0	891.3	867.5	866.7	3.7	1.7	-168.64	352.1	-45.9	457.2	452.1	5.09	89.805		
1,100.0	1,089.1	1,048.3	1,047.4	4.1	1.9	-169.50	356.3	-50.0	482.8	477.2	5.62	85.975		
1,200.0	1,186.9	1,136.5	1,135.4	4.6	2.1	-170.21	361.6	-54.0	509.9	503.8	6.13	83.168		
1,300.0	1,284.8	1,218.1	1,216.5	5.0	2.3	-170.87	368.1	-58.4	539.0	532.4	6.63	81.273		
1,400.0	1,382.6	1,297.6	1,295.4	5.5	2.5	-171.61	376.2	-64.8	570.9	563.7	7.12	80.146		
1,500.0	1,480.4	1,377.0	1,373.9	6.0	2.8	-172.37	386.0	-72.4	605.2	597.6	7.61	79.561		
1,600.0	1,578.3	1,455.7	1,451.3	6.4	3.0	-173.13	397.2	-81.1	641.8	633.7	8.09	79.385		
1,700.0	1,676.1	1,532.5	1,526.4	6.9	3.3	-173.89	409.6	-91.0	680.7	672.1	8.55	79.611		
1,800.0	1,773.9	1,616.0	1,607.7	7.4	3.6	-174.64	424.6	-102.4	721.4	712.4	9.04	79.834		
1,900.0	1,871.7	1,703.0	1,692.3	7.9	4.0	-175.36	440.7	-114.5	763.0	753.5	9.54	79.947		
2,000.0	1,969.6	1,779.1	1,766.1	8.3	4.3	-175.99	455.2	-125.9	805.4	795.4	10.00	80.559		
2,100.0	2,067.4	1,859.0	1,843.3	8.8	4.7	-176.63	471.4	-138.9	849.4	838.9	10.47	81.133		
2,200.0	2,165.2	1,940.7	1,922.0	9.3	5.0	-177.25	488.5	-152.7	894.2	883.2	10.94	81.709		
2,300.0	2,263.1	2,014.9	1,993.4	9.8	5.4	-177.72	504.9	-164.7	939.9	928.6	11.37	82.656		
2,400.0	2,360.9	2,086.0	2,061.2	10.2	5.8	-178.12	522.3	-176.8	987.9	976.1	11.78	83.870		
2,500.0	2,458.7	2,145.4	2,117.6	10.7	6.1	-178.46	537.9	-187.5	1,037.8	1,025.6	12.11	85.659		
2,600.0	2,556.6	2,237.1	2,204.2	11.2	6.6	-178.95	562.6	-204.7	1,088.6	1,076.0	12.65	86.090		
2,700.0	2,654.4	2,337.7	2,299.7	11.7	7.2	-179.43	588.4	-222.9	1,138.1	1,124.9	13.24	85.968		
2,800.0	2,752.2	2,414.5	2,372.6	12.1	7.6	-179.83	607.4	-237.8	1,187.5	1,173.8	13.68	86.802		
2,900.0	2,850.0	2,490.1	2,444.1	12.6	8.1	-179.83	627.3	-252.2	1,238.0	1,223.9	14.11	87.728		
3,000.0	2,947.9	2,594.9	2,543.3	13.1	8.7	-179.41	654.6	-272.1	1,288.5	1,273.8	14.73	87.454		
3,100.0	3,045.7	2,699.6	2,643.0	13.6	9.2	-178.97	679.4	-292.4	1,337.0	1,321.6	15.36	87.068		
3,200.0	3,143.5	2,784.5	2,723.8	14.0	9.7	-178.64	699.5	-308.6	1,385.5	1,369.6	15.84	87.448		
3,300.0	3,241.4	2,880.9	2,815.8	14.5	10.2	-178.38	723.1	-325.1	1,433.9	1,417.5	16.40	87.430		
3,400.0	3,339.2	2,980.2	2,910.9	15.0	10.8	-178.12	746.3	-342.2	1,481.5	1,464.5	16.98	87.250		
8,700.0	8,036.0	8,178.0	8,011.6	30.7	26.4	-89.32	1,350.3	-769.3	1,475.2	1,432.0	43.19	34.158		
8,800.0	8,036.0	8,178.0	8,011.6	31.2	26.4	-89.32	1,350.3	-769.3	1,403.2	1,359.3	43.89	31.967		
8,900.0	8,036.0	8,184.9	8,018.5	31.8	26.4	-89.71	1,350.5	-769.2	1,334.7	1,289.9	44.84	29.769		
9,000.0	8,036.0	8,186.8	8,020.4	32.5	26.4	-89.82	1,350.5	-769.2	1,270.5	1,224.5	46.02	27.607		
9,100.0	8,036.0	8,188.8	8,022.4	33.2	26.4	-89.94	1,350.6	-769.2	1,211.1	1,163.7	47.48	25.508		
9,200.0	8,036.0	8,190.8	8,024.4	34.0	26.4	-90.05	1,350.6	-769.1	1,157.4	1,108.1	49.23	23.512		
9,300.0	8,036.0	8,192.8	8,026.4	34.8	26.4	-90.17	1,350.6	-769.1	1,110.0	1,058.8	51.24	21.662		
9,400.0	8,036.0	8,194.9	8,028.5	35.7	26.4	-90.29	1,350.7	-769.1	1,069.9	1,016.5	53.49	20.003		
9,500.0	8,036.0	8,197.0	8,030.6	36.7	26.4	-90.41	1,350.7	-769.0	1,038.0	982.1	55.89	18.572		
9,600.0	8,036.0	8,199.2	8,032.8	37.7	26.4	-90.53	1,350.8	-769.0	1,014.9	956.6	58.34	17.396		
9,700.0	8,036.0	8,201.4	8,035.0	38.7	26.4	-90.66	1,350.8	-769.0	1,001.3	940.6	60.72	16.491		
9,787.0	8,036.0	8,203.3	8,036.9	39.6	26.4	-90.77	1,350.9	-769.0	997.5	934.9	62.64	15.926		
9,800.0	8,036.0	8,203.6	8,037.2	39.8	26.4	-90.79	1,350.9	-769.0	997.6	934.7	62.90	15.860		
9,900.0	8,036.0	8,205.9	8,039.5	40.9	26.4	-90.92	1,350.9	-768.9	1,003.9	939.1	64.78	15.497		
10,000.0	8,036.0	8,208.2	8,041.8	42.0	26.4	-91.05	1,351.0	-768.9	1,020.0	953.7	66.28	15.388 SF		
10,100.0	8,036.0	8,210.6	8,044.2	43.2	26.4	-91.19	1,351.0	-768.9	1,045.4	978.0	67.39	15.513		
10,200.0	8,036.0	8,213.0	8,046.6	44.4	26.4	-91.33	1,351.1	-768.8	1,079.6	1,011.5	68.11	15.850		

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 4E-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 4E-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 #5	<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						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	8,036.0	8,215.5	8,049.1	45.6	26.4	-91.47	1,351.2	-768.8	1,121.6	1,053.1	68.50	16.375						
10,400.0	8,036.0	8,218.0	8,051.6	46.8	26.4	-91.61	1,351.2	-768.8	1,170.7	1,102.1	68.59	17.068						
10,500.0	8,036.0	8,220.6	8,054.1	48.1	26.4	-91.76	1,351.3	-768.7	1,226.0	1,157.5	68.47	17.906						
10,600.0	8,036.0	8,223.2	8,056.8	49.4	26.5	-91.91	1,351.3	-768.7	1,286.7	1,218.5	68.18	18.872						
10,700.0	8,036.0	8,225.9	8,059.4	50.7	26.5	-92.06	1,351.4	-768.7	1,352.1	1,284.3	67.78	19.949						
10,800.0	8,036.0	8,228.6	8,062.2	52.0	26.5	-92.22	1,351.5	-768.6	1,421.5	1,354.2	67.30	21.121						
10,900.0	8,036.0	8,231.4	8,065.0	53.3	26.5	-92.38	1,351.6	-768.6	1,494.3	1,427.5	66.78	22.377						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	2.56	319.9	14.3	321.2					
100.0	100.0	75.3	75.3	0.1	0.1	2.62	319.8	14.6	320.1	319.8	0.27	1,206.900		
200.0	200.0	176.3	176.3	0.5	0.3	2.90	319.3	16.2	319.7	318.9	0.81	396.383		
219.1	219.1	195.5	195.5	0.6	0.4	-155.38	319.1	16.6	319.6	318.7	0.91	352.255 CC, ES		
300.0	300.0	278.6	278.5	0.8	0.5	-155.19	318.3	18.3	320.5	319.1	1.33	240.514		
400.0	399.8	377.8	377.8	1.2	0.7	-155.61	317.0	17.9	323.9	322.0	1.85	175.378		
500.0	499.5	477.6	477.5	1.5	0.8	-156.60	316.1	15.4	330.9	328.5	2.38	139.275		
600.0	598.7	578.8	578.7	1.9	1.0	-157.96	314.9	11.7	340.8	337.9	2.92	116.729		
700.0	697.5	675.4	675.1	2.3	1.2	-159.42	313.6	7.9	354.1	350.7	3.46	102.234		
800.0	795.6	773.5	773.2	2.8	1.4	-160.75	312.7	5.3	371.3	367.3	4.02	92.350		
900.0	893.5	869.3	869.0	3.2	1.5	-161.99	312.0	3.6	390.4	385.9	4.56	85.647		
1,000.0	991.3	967.1	966.8	3.7	1.7	-163.14	311.7	1.8	410.0	404.9	5.10	80.346		
1,100.0	1,089.1	1,065.7	1,065.4	4.1	1.9	-164.24	311.1	-0.4	429.6	423.9	5.65	76.006		
1,200.0	1,186.9	1,162.8	1,162.4	4.6	2.1	-165.25	310.6	-2.6	449.3	443.1	6.20	72.497		
1,300.0	1,284.8	1,261.0	1,260.6	5.0	2.2	-166.18	310.0	-4.9	469.2	462.4	6.75	69.526		
1,400.0	1,382.6	1,359.1	1,358.6	5.5	2.4	-167.06	309.4	-7.3	489.2	481.9	7.30	67.026		
1,500.0	1,480.4	1,462.5	1,462.0	6.0	2.6	-167.84	308.3	-9.2	508.6	500.7	7.87	64.651		
1,600.0	1,578.3	1,564.7	1,564.0	6.4	2.8	-168.89	305.4	-13.8	527.0	518.6	8.45	62.405		
1,700.0	1,676.1	1,664.7	1,663.6	6.9	3.0	-170.24	301.6	-21.9	545.3	536.2	9.03	60.358		
1,800.0	1,773.9	1,763.8	1,762.0	7.4	3.2	-171.87	296.4	-33.4	563.3	553.7	9.64	58.421		
1,900.0	1,871.7	1,862.7	1,859.7	7.9	3.5	-173.67	290.5	-47.5	581.6	571.3	10.27	56.605		
2,000.0	1,969.6	1,966.8	1,962.1	8.3	3.8	-175.65	282.8	-64.1	599.7	588.8	10.96	54.730		
2,100.0	2,067.4	2,064.7	2,058.1	8.8	4.1	-177.57	274.2	-81.1	617.5	605.9	11.65	53.020		
2,200.0	2,165.2	2,157.4	2,148.6	9.3	4.5	-179.50	265.4	-99.5	636.2	623.8	12.35	51.511		
2,300.0	2,263.1	2,244.7	2,233.2	9.8	4.8	-178.57	257.0	-119.2	656.5	643.4	13.06	50.279		
2,400.0	2,360.9	2,344.3	2,329.3	10.2	5.2	-176.36	247.3	-143.4	678.3	664.4	13.86	48.939		
2,500.0	2,458.7	2,443.9	2,425.5	10.7	5.7	-174.26	236.5	-167.3	699.8	685.1	14.68	47.666		
2,600.0	2,556.6	2,544.9	2,522.9	11.2	6.1	-172.25	224.9	-191.4	721.5	706.0	15.52	46.477		
2,700.0	2,654.4	2,634.5	2,609.3	11.7	6.5	-170.60	214.6	-212.3	743.8	727.5	16.28	45.680		
2,800.0	2,752.2	2,723.3	2,695.3	12.1	6.9	-169.11	205.4	-232.8	767.5	750.5	17.03	45.074		
2,900.0	2,850.0	2,814.6	2,783.5	12.6	7.3	-167.66	196.5	-254.3	792.4	774.6	17.81	44.484		
3,000.0	2,947.9	2,911.7	2,877.1	13.1	7.8	-166.11	186.3	-278.2	817.9	799.2	18.64	43.867		
3,100.0	3,045.7	3,004.4	2,966.4	13.6	8.2	-164.71	176.4	-300.9	843.7	824.3	19.45	43.377		
3,200.0	3,143.5	3,089.5	3,048.3	14.0	8.7	-163.47	167.5	-322.5	870.6	850.4	20.19	43.114		
3,300.0	3,241.4	3,152.4	3,109.3	14.5	8.7	-162.84	164.0	-336.4	899.8	879.4	20.48	43.938		
3,400.0	3,339.2	3,209.0	3,165.0	15.0	8.7	-163.35	173.0	-337.9	933.3	912.8	20.56	45.405		
3,500.0	3,437.1	3,397.0	3,348.3	15.5	9.6	-162.61	173.7	-368.4	962.6	940.4	22.17	43.412		
3,600.0	3,535.4	3,487.1	3,435.4	15.9	10.0	-161.72	164.6	-389.4	986.6	963.7	22.92	43.038		
3,700.0	3,634.4	3,586.1	3,530.8	16.3	10.5	-160.64	153.9	-413.6	1,007.9	984.1	23.76	42.425		
3,800.0	3,733.7	3,702.6	3,643.4	16.7	11.0	-159.35	140.5	-440.3	1,024.9	1,000.2	24.68	41.523		
3,900.0	3,833.5	3,792.7	3,730.6	17.1	11.4	-158.35	130.1	-460.5	1,038.9	1,013.5	25.40	40.907		
4,000.0	3,933.4	3,883.2	3,818.0	17.4	11.9	-157.26	119.3	-481.7	1,050.4	1,024.3	26.10	40.246		
4,100.0	4,033.4	3,959.0	3,890.9	17.7	12.3	-45.36	111.0	-500.3	1,061.0	1,034.4	26.63	39.845		
4,200.0	4,133.4	4,034.7	3,963.8	17.9	12.6	-46.35	104.2	-519.6	1,073.3	1,046.2	27.11	39.594		
4,300.0	4,233.4	4,135.7	4,061.2	18.2	13.1	-47.61	96.2	-545.5	1,087.0	1,059.2	27.82	39.071		
4,400.0	4,333.4	4,251.9	4,173.3	18.5	13.7	-49.02	85.9	-574.0	1,099.8	1,071.2	28.64	38.399		
4,500.0	4,433.4	4,342.3	4,260.9	18.7	14.1	-50.00	78.8	-594.9	1,112.6	1,083.4	29.20	38.099		
4,600.0	4,533.4	4,444.0	4,360.2	19.0	14.5	-50.92	73.5	-616.4	1,125.8	1,096.0	29.81	37.769		
4,700.0	4,633.4	4,553.6	4,467.6	19.3	14.9	-51.79	68.8	-637.8	1,138.5	1,108.1	30.46	37.376		
4,800.0	4,733.4	4,663.8	4,576.0	19.6	15.3	-52.55	64.9	-657.2	1,150.4	1,119.3	31.08	37.018		
4,900.0	4,833.4	4,789.3	4,700.2	19.8	15.6	-53.18	62.9	-675.4	1,161.1	1,129.3	31.74	36.575		
5,000.0	4,933.4	4,933.6	4,843.6	20.1	16.0	-53.74	59.8	-690.5	1,168.1	1,135.6	32.47	35.973		

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 4E-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 4E-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 #5	<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)				
5,100.0	5,033.4	5,043.9	4,953.5	20.4	16.2	-54.09	57.2	-699.2	1,173.1	1,140.1	33.00	35.553		
5,200.0	5,133.4	5,163.3	5,072.6	20.7	16.4	-54.43	54.5	-707.0	1,177.1	1,143.6	33.55	35.081		
5,300.0	5,233.4	5,275.1	5,184.2	21.0	16.6	-54.73	50.9	-712.9	1,179.5	1,145.5	34.07	34.618		
5,400.0	5,333.4	5,381.5	5,290.5	21.3	16.8	-54.98	47.8	-717.3	1,181.2	1,146.7	34.56	34.181		
5,500.0	5,433.4	5,483.3	5,392.2	21.6	17.0	-55.18	45.3	-720.8	1,182.7	1,147.7	35.03	33.767		
5,600.0	5,533.4	5,593.5	5,502.3	21.9	17.1	-55.36	42.8	-723.7	1,183.5	1,148.0	35.51	33.327		
5,700.0	5,633.4	5,696.4	5,605.1	22.2	17.2	-55.49	40.7	-725.5	1,183.9	1,147.9	35.97	32.915		
5,800.0	5,733.4	5,796.8	5,705.6	22.5	17.4	-55.59	39.1	-726.9	1,184.0	1,147.6	36.42	32.514		
5,900.0	5,833.4	5,895.3	5,804.0	22.8	17.5	-55.68	37.7	-728.1	1,184.3	1,147.4	36.86	32.129		
6,000.0	5,933.4	5,994.9	5,903.6	23.1	17.6	-55.75	36.7	-729.2	1,184.6	1,147.3	37.31	31.754		
6,100.0	6,033.4	6,095.0	6,003.7	23.4	17.7	-55.81	35.8	-730.2	1,185.0	1,147.2	37.76	31.386		
6,200.0	6,133.4	6,194.2	6,102.9	23.7	17.8	-55.86	35.2	-731.1	1,185.4	1,147.2	38.20	31.034		
6,300.0	6,233.4	6,293.2	6,201.9	24.0	17.9	-55.88	35.1	-731.7	1,185.8	1,147.2	38.64	30.693		
6,400.0	6,333.4	6,391.3	6,300.0	24.3	18.0	-55.88	35.5	-732.1	1,186.4	1,147.3	39.06	30.371		
6,500.0	6,433.4	6,491.0	6,399.7	24.6	18.1	-55.84	36.6	-732.3	1,187.2	1,147.7	39.50	30.056		
6,600.0	6,533.4	6,604.0	6,512.7	24.9	18.2	-55.77	37.9	-731.7	1,187.4	1,147.4	39.96	29.711		
6,700.0	6,633.4	6,713.7	6,622.4	25.2	18.3	-55.68	38.8	-729.8	1,186.4	1,146.0	40.42	29.353		
6,800.0	6,733.4	6,813.2	6,721.8	25.5	18.4	-55.59	39.8	-727.7	1,185.2	1,144.4	40.85	29.012		
6,900.0	6,833.4	6,914.8	6,823.4	25.9	18.5	-55.47	41.1	-725.4	1,184.0	1,142.7	41.29	28.679		
7,000.0	6,933.4	7,018.6	6,927.2	26.2	18.6	-55.33	42.6	-722.5	1,182.6	1,140.8	41.72	28.344		
7,100.0	7,033.4	7,123.4	7,031.9	26.5	18.6	-55.17	44.2	-719.0	1,180.7	1,138.6	42.16	28.004		
7,200.0	7,133.4	7,228.8	7,137.2	26.8	18.7	-55.02	45.4	-715.2	1,178.5	1,135.9	42.61	27.658		
7,300.0	7,233.4	7,336.2	7,244.6	27.1	18.8	-54.86	46.4	-710.9	1,175.7	1,132.6	43.05	27.308		
7,400.0	7,333.4	7,443.5	7,351.7	27.5	18.8	-54.11	47.2	-705.8	1,172.2	1,128.7	43.50	26.949		
7,500.0	7,432.9	7,548.0	7,456.1	27.7	18.9	-54.89	47.8	-700.3	1,163.0	1,119.1	43.89	26.497		
7,600.0	7,530.2	7,646.7	7,554.6	28.0	18.9	-56.81	48.2	-694.8	1,145.7	1,101.5	44.22	25.908		
7,700.0	7,623.4	7,734.9	7,642.6	28.2	19.0	-59.77	48.6	-690.2	1,121.5	1,077.1	44.47	25.217		
7,800.0	7,710.8	7,816.9	7,724.6	28.4	19.1	-63.73	48.8	-686.3	1,092.0	1,047.3	44.65	24.455		
7,900.0	7,790.5	7,889.6	7,797.3	28.6	19.1	-68.47	49.1	-683.3	1,058.9	1,014.2	44.76	23.657		
8,000.0	7,861.0	7,954.3	7,861.9	28.7	19.2	-73.71	49.5	-681.1	1,024.5	979.7	44.80	22.866		
8,100.0	7,921.0	8,011.0	7,918.5	28.9	19.2	-79.08	50.0	-679.4	991.1	946.3	44.80	22.125		
8,200.0	7,969.3	8,058.9	7,966.4	29.1	19.3	-84.06	50.4	-678.1	961.4	916.6	44.76	21.480		
8,300.0	8,005.0	8,094.6	8,002.1	29.3	19.3	-88.03	50.8	-677.1	938.0	893.3	44.71	20.981		
8,400.0	8,027.3	8,117.5	8,025.0	29.5	19.3	-90.60	51.0	-676.5	923.4	878.7	44.66	20.674		
8,487.2	8,035.6	8,126.5	8,034.0	29.8	19.3	-91.49	51.1	-676.3	919.2	874.5	44.65	20.586 SF		
8,500.0	8,035.9	8,127.0	8,034.5	29.8	19.3	-91.51	51.1	-676.3	919.3	874.6	44.65	20.589		
8,600.0	8,036.0	8,128.2	8,035.7	30.2	19.3	-91.57	51.1	-676.3	926.2	881.5	44.70	20.721		
8,700.0	8,036.0	8,129.3	8,036.8	30.7	19.3	-91.64	51.2	-676.2	943.7	898.8	44.85	21.040		
8,800.0	8,036.0	8,130.4	8,037.9	31.2	19.3	-91.71	51.2	-676.2	971.2	926.1	45.09	21.538		
8,900.0	8,036.0	8,131.5	8,039.0	31.8	19.3	-91.78	51.2	-676.2	1,007.9	962.5	45.40	22.201		
9,000.0	8,036.0	8,132.6	8,040.1	32.5	19.3	-91.84	51.2	-676.1	1,052.9	1,007.2	45.75	23.016		
9,100.0	8,036.0	8,133.7	8,041.2	33.2	19.3	-91.91	51.2	-676.1	1,105.1	1,059.0	46.10	23.971		
9,200.0	8,036.0	8,134.8	8,042.3	34.0	19.4	-91.98	51.2	-676.1	1,163.6	1,117.2	46.45	25.051		
9,300.0	8,036.0	8,135.9	8,043.5	34.8	19.4	-92.05	51.2	-676.1	1,227.5	1,180.7	46.78	26.241		
9,400.0	8,036.0	8,137.1	8,044.6	35.7	19.4	-92.13	51.2	-676.0	1,295.9	1,248.9	47.08	27.528		
9,500.0	8,036.0	8,138.2	8,045.7	36.7	19.4	-92.20	51.3	-676.0	1,368.3	1,320.9	47.35	28.898		
9,600.0	8,036.0	8,139.4	8,046.9	37.7	19.4	-92.27	51.3	-676.0	1,443.9	1,396.3	47.59	30.341		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	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)				
11,000.0	8,036.0	8,173.9	8,039.6	54.7	23.5	84.71	4,042.8	425.7	1,483.4	1,440.2	43.21	34.332		
11,100.0	8,036.0	8,175.7	8,041.3	56.0	23.5	85.16	4,042.9	425.6	1,384.7	1,341.3	43.37	31.926		
11,200.0	8,036.0	8,177.5	8,043.1	57.4	23.5	85.60	4,042.9	425.6	1,286.1	1,242.5	43.58	29.511		
11,300.0	8,036.0	8,179.2	8,044.9	58.8	23.5	86.05	4,042.9	425.5	1,187.8	1,144.0	43.86	27.084		
11,400.0	8,036.0	8,181.0	8,046.6	60.2	23.5	86.49	4,043.0	425.5	1,089.8	1,045.6	44.22	24.643		
11,500.0	8,036.0	8,182.8	8,048.4	61.6	23.5	86.94	4,043.0	425.4	992.2	947.5	44.72	22.187		
11,600.0	8,036.0	8,184.6	8,050.2	63.0	23.5	87.42	4,043.0	425.4	895.2	849.7	45.41	19.712		
11,700.0	8,036.0	8,186.4	8,052.0	64.4	23.5	88.00	4,043.1	425.3	799.1	752.7	46.43	17.211		
11,800.0	8,036.0	8,188.2	8,053.9	65.8	23.5	88.51	4,043.1	425.3	704.8	656.8	48.00	14.682		
11,900.0	8,036.0	8,190.1	8,055.8	67.3	23.5	88.98	4,043.1	425.2	613.0	562.5	50.48	12.144		
12,000.0	8,036.0	8,192.1	8,057.7	68.8	23.5	89.42	4,043.2	425.2	525.1	470.7	54.41	9.650		
12,100.0	8,036.0	8,194.1	8,059.7	70.3	23.5	89.84	4,043.2	425.1	443.4	382.8	60.63	7.313		
12,200.0	8,036.0	8,196.1	8,061.7	71.8	23.5	90.24	4,043.2	425.1	372.1	302.0	70.06	5.311		
12,300.0	8,036.0	8,198.1	8,063.8	73.4	23.5	90.65	4,043.3	425.0	318.3	235.7	82.56	3.855		
12,400.0	8,036.0	8,200.2	8,065.8	75.0	23.5	91.06	4,043.3	425.0	290.8	196.4	94.40	3.080		
12,435.8	8,036.0	8,200.9	8,066.6	75.5	23.5	91.21	4,043.3	425.0	288.6	191.4	97.19	2.969 CC, ES, SF		
12,500.0	8,036.0	8,202.3	8,067.9	76.5	23.5	91.47	4,043.3	425.0	295.6	196.4	99.28	2.978		
12,600.0	8,036.0	8,204.3	8,069.9	78.1	23.5	91.88	4,043.4	424.9	332.0	236.0	96.04	3.457		
12,700.0	8,036.0	8,206.4	8,072.0	79.7	23.5	92.28	4,043.4	424.9	391.2	302.0	89.23	4.385		
12,800.0	8,036.0	8,208.4	8,074.0	81.2	23.5	92.69	4,043.5	424.8	464.6	382.2	82.42	5.638		
12,900.0	8,036.0	8,210.5	8,076.1	82.8	23.5	93.09	4,043.5	424.8	546.5	469.8	76.76	7.120		
13,000.0	8,036.0	8,212.5	8,078.1	84.4	23.5	93.50	4,043.5	424.7	633.6	561.3	72.32	8.762		
13,100.0	8,036.0	8,214.5	8,080.2	86.0	23.5	93.90	4,043.6	424.7	724.1	655.2	68.86	10.515		
13,200.0	8,036.0	8,216.6	8,082.2	87.6	23.5	94.31	4,043.6	424.6	816.7	750.6	66.15	12.348		
13,300.0	8,036.0	8,218.6	8,084.3	89.2	23.5	94.71	4,043.7	424.6	911.0	847.0	63.99	14.236		
13,400.0	8,036.0	8,220.7	8,086.3	90.8	23.5	95.11	4,043.7	424.5	1,006.3	944.0	62.26	16.163		
13,500.0	8,036.0	8,222.7	8,088.3	92.4	23.5	95.52	4,043.7	424.5	1,102.4	1,041.6	60.85	18.118		
13,600.0	8,036.0	8,224.7	8,090.4	94.1	23.6	95.92	4,043.8	424.5	1,199.2	1,139.5	59.68	20.094		
13,700.0	8,036.0	8,226.8	8,092.4	95.7	23.6	96.32	4,043.8	424.4	1,296.5	1,237.8	58.71	22.084		
13,800.0	8,036.0	8,228.8	8,094.4	97.3	23.6	96.62	4,043.8	424.4	1,394.1	1,336.2	57.89	24.084		
13,900.0	8,036.0	8,230.8	8,096.4	98.9	23.6	96.47	4,043.9	424.3	1,491.8	1,434.7	57.15	26.106		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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		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			
9,600.0	8,036.0	8,152.0	8,081.7	37.7	19.2	92.97	2,524.2	644.5	1,411.8	1,364.6	47.26	29.870		
9,700.0	8,036.0	8,150.2	8,080.0	38.7	19.2	92.73	2,524.2	644.5	1,316.9	1,269.3	47.62	27.655		
9,800.0	8,036.0	8,148.4	8,078.2	39.8	19.2	92.50	2,524.3	644.5	1,222.8	1,174.7	48.06	25.441		
9,900.0	8,036.0	8,146.6	8,076.4	40.9	19.2	92.25	2,524.3	644.4	1,129.7	1,081.1	48.63	23.230		
10,000.0	8,036.0	8,144.8	8,074.5	42.0	19.2	92.01	2,524.3	644.4	1,037.9	988.5	49.35	21.029		
10,100.0	8,036.0	8,142.9	8,072.6	43.2	19.2	91.76	2,524.4	644.4	947.7	897.4	50.29	18.846		
10,200.0	8,036.0	8,141.0	8,070.7	44.4	19.2	91.50	2,524.4	644.4	859.7	808.2	51.50	16.693		
10,300.0	8,036.0	8,139.1	8,068.8	45.6	19.2	91.24	2,524.5	644.4	774.6	721.6	53.08	14.593		
10,400.0	8,036.0	8,137.1	8,066.8	46.8	19.2	90.98	2,524.5	644.4	693.6	638.4	55.13	12.580		
10,500.0	8,036.0	8,135.1	8,064.8	48.1	19.2	90.71	2,524.5	644.3	618.0	560.3	57.74	10.704		
10,600.0	8,036.0	8,133.0	8,062.8	49.4	19.2	90.44	2,524.6	644.3	550.4	489.4	60.92	9.035		
10,700.0	8,036.0	8,131.0	8,060.7	50.7	19.2	90.16	2,524.6	644.3	493.8	429.3	64.47	7.659		
10,800.0	8,036.0	8,128.8	8,058.6	52.0	19.2	89.88	2,524.7	644.3	452.5	384.6	67.82	6.671		
10,900.0	8,036.0	8,126.7	8,056.5	53.3	19.2	89.59	2,524.7	644.3	430.8	360.8	70.01	6.154		
10,945.5	8,036.0	8,125.7	8,055.5	53.9	19.2	89.46	2,524.7	644.2	428.4	358.0	70.39	6.086 CC, ES, SF		
11,000.0	8,036.0	8,124.5	8,054.3	54.7	19.2	89.30	2,524.8	644.2	431.9	361.6	70.27	6.146		
11,100.0	8,036.0	8,122.3	8,052.0	56.0	19.2	89.00	2,524.8	644.2	455.4	386.7	68.69	6.630		
11,200.0	8,036.0	8,120.0	8,049.8	57.4	19.2	88.70	2,524.9	644.2	498.3	432.2	66.11	7.537		
11,300.0	8,036.0	8,117.7	8,047.5	58.8	19.2	88.39	2,524.9	644.2	556.0	492.6	63.36	8.775		
11,400.0	8,036.0	8,115.4	8,045.1	60.2	19.2	88.08	2,525.0	644.1	624.5	563.6	60.87	10.260		
11,500.0	8,036.0	8,113.0	8,042.7	61.6	19.2	87.76	2,525.0	644.1	700.6	641.8	58.76	11.922		
11,600.0	8,036.0	8,110.5	8,040.3	63.0	19.1	87.42	2,525.1	644.1	782.1	725.1	57.05	13.710		
11,700.0	8,036.0	8,108.0	8,037.8	64.4	19.1	87.00	2,525.1	644.1	868.0	812.3	55.69	15.588		
11,800.0	8,036.0	8,105.5	8,035.2	65.8	19.1	86.53	2,525.2	644.0	957.4	902.8	54.63	17.527		
11,900.0	8,036.0	8,102.8	8,032.6	67.3	19.1	85.99	2,525.3	644.0	1,049.4	995.6	53.80	19.504		
12,000.0	8,036.0	8,100.1	8,029.9	68.8	19.1	85.38	2,525.3	644.0	1,143.3	1,090.2	53.17	21.505		
12,100.0	8,036.0	8,097.4	8,027.1	70.3	19.1	84.66	2,525.4	644.0	1,238.7	1,186.0	52.67	23.518		
12,200.0	8,036.0	8,094.6	8,024.3	71.8	19.1	83.81	2,525.5	643.9	1,335.2	1,282.9	52.29	25.536		
12,300.0	8,036.0	8,091.7	8,021.4	73.4	19.1	82.79	2,525.5	643.9	1,432.6	1,380.6	51.99	27.555		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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				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	5.77	310.4	31.4	312.2					
100.0	100.0	88.3	88.3	0.1	0.1	5.81	310.4	31.6	312.0	311.7	0.27	1,138.811	CC	
200.0	200.0	188.2	188.2	0.5	0.3	5.96	310.4	32.4	312.1	311.3	0.80	391.480		
300.0	300.0	284.5	284.5	0.8	0.5	-152.27	310.8	33.8	314.2	312.8	1.32	238.837		
400.0	399.8	376.0	375.9	1.2	0.6	-152.25	312.8	36.0	321.3	319.4	1.85	173.518		
500.0	499.5	467.2	467.0	1.5	0.8	-152.30	317.2	39.2	334.1	331.7	2.40	139.235		
600.0	598.7	555.5	554.9	1.9	1.0	-152.43	323.5	43.0	352.5	349.5	2.95	119.276		
700.0	697.5	639.6	638.4	2.3	1.2	-152.56	332.2	47.7	377.0	373.5	3.51	107.274		
800.0	795.6	721.9	719.7	2.8	1.5	-152.66	343.6	53.4	408.0	403.9	4.08	100.059		
900.0	893.5	803.5	800.0	3.2	1.8	-152.96	357.1	60.1	443.2	438.6	4.61	96.174		
1,000.0	891.3	884.7	879.2	3.7	2.1	-153.03	372.6	68.4	480.9	475.8	5.14	93.604		
1,100.0	1,089.1	971.5	963.5	4.1	2.5	-152.99	390.6	78.3	520.3	514.6	5.68	91.655		
1,200.0	1,186.9	1,055.0	1,044.6	4.6	2.8	-152.86	408.0	88.6	559.9	553.6	6.22	90.079		
1,300.0	1,284.8	1,137.0	1,123.8	5.0	3.2	-152.69	426.2	99.3	600.8	594.1	6.75	88.978		
1,400.0	1,382.6	1,215.6	1,199.2	5.5	3.7	-152.56	445.8	109.7	644.2	637.0	7.27	88.641		
1,500.0	1,480.4	1,293.4	1,273.6	6.0	4.1	-152.51	466.5	119.3	689.1	681.4	7.77	88.685		
1,600.0	1,578.3	1,372.2	1,348.6	6.4	4.5	-152.52	488.8	128.6	735.5	727.3	8.27	88.900		
1,700.0	1,676.1	1,458.2	1,430.3	6.9	5.0	-152.51	513.8	138.9	782.7	773.9	8.82	88.792		
1,800.0	1,773.9	1,551.7	1,519.0	7.4	5.5	-152.41	540.5	151.3	829.5	820.1	9.40	88.207		
1,900.0	1,871.7	1,644.9	1,607.5	7.9	6.0	-152.31	566.9	163.7	876.1	866.1	9.99	87.699		
2,000.0	1,969.6	1,753.7	1,711.5	8.3	6.6	-152.30	596.1	176.7	921.2	910.5	10.65	86.511		
2,100.0	2,067.4	1,847.9	1,802.0	8.8	7.1	-152.38	620.1	186.7	964.9	953.7	11.23	85.886		
2,200.0	2,165.2	1,959.2	1,909.0	9.3	7.6	-152.40	648.0	199.4	1,008.5	996.6	11.92	84.573		
2,300.0	2,263.1	2,050.6	1,997.4	9.8	8.1	-152.35	668.7	210.7	1,049.7	1,037.2	12.51	83.877		
2,400.0	2,360.9	2,126.2	2,070.1	10.2	8.5	-152.32	686.9	220.0	1,092.2	1,079.2	13.02	83.907		
2,500.0	2,458.7	2,207.3	2,148.0	10.7	8.9	-152.31	707.3	229.8	1,135.7	1,122.1	13.55	83.843		
2,600.0	2,556.6	2,302.2	2,239.0	11.2	9.4	-152.30	731.4	241.1	1,179.5	1,165.3	14.15	83.351		
2,700.0	2,654.4	2,417.4	2,350.1	11.7	9.9	-152.31	759.0	254.5	1,221.9	1,207.0	14.88	82.135		
2,800.0	2,752.2	2,510.3	2,439.8	12.1	10.4	-152.26	780.0	266.3	1,263.1	1,247.6	15.48	81.578		
2,900.0	2,850.0	2,587.1	2,513.9	12.6	10.8	-152.21	797.9	276.2	1,305.0	1,289.0	16.00	81.568		
3,000.0	2,947.9	2,661.8	2,585.6	13.1	11.2	-152.16	816.2	286.0	1,348.0	1,331.5	16.50	81.701		
3,100.0	3,045.7	2,750.2	2,670.5	13.6	11.7	-152.11	838.3	297.6	1,391.5	1,374.4	17.08	81.473		
3,200.0	3,143.5	2,829.1	2,746.1	14.0	12.1	-152.10	858.4	307.2	1,435.4	1,417.8	17.59	81.612		
3,300.0	3,241.4	2,902.2	2,816.1	14.5	12.5	-152.13	877.8	315.3	1,480.1	1,462.1	18.06	81.964		
8,400.0	8,027.3	8,155.6	8,003.4	29.5	25.3	56.03	1,371.0	566.8	1,432.8	1,389.9	42.88	33.412		
8,500.0	8,035.9	8,164.5	8,012.4	29.8	25.3	84.49	1,371.0	567.0	1,336.4	1,293.5	42.82	31.209		
8,600.0	8,036.0	8,164.9	8,012.7	30.2	25.3	88.01	1,371.0	567.0	1,239.9	1,197.1	42.74	29.007		
8,700.0	8,036.0	8,165.2	8,013.0	30.7	25.3	88.06	1,371.0	567.0	1,144.0	1,101.3	42.68	26.802		
8,800.0	8,036.0	8,165.5	8,013.3	31.2	25.3	88.11	1,371.0	567.1	1,048.9	1,006.3	42.65	24.592		
8,900.0	8,036.0	8,165.8	8,013.6	31.8	25.3	88.16	1,371.0	567.1	954.8	912.2	42.67	22.376		
9,000.0	8,036.0	8,166.1	8,013.9	32.5	25.3	88.20	1,371.0	567.1	862.1	819.3	42.78	20.151		
9,100.0	8,036.0	8,166.3	8,014.2	33.2	25.3	88.25	1,371.0	567.1	771.1	728.1	43.04	17.915		
9,200.0	8,036.0	8,166.6	8,014.5	34.0	25.3	88.30	1,371.0	567.1	682.7	639.2	43.57	15.669		
9,300.0	8,036.0	8,166.9	8,014.7	34.8	25.3	88.35	1,371.0	567.1	598.0	553.4	44.56	13.420		
9,400.0	8,036.0	8,167.2	8,015.0	35.7	25.3	88.40	1,371.0	567.1	518.7	472.4	46.31	11.202		
9,500.0	8,036.0	8,167.5	8,015.3	36.7	25.3	88.45	1,371.0	567.1	447.8	398.6	49.22	9.097		
9,600.0	8,036.0	8,167.8	8,015.6	37.7	25.3	88.49	1,371.0	567.1	389.8	336.3	53.59	7.275		
9,700.0	8,036.0	8,168.1	8,015.9	38.7	25.3	88.54	1,371.0	567.1	351.3	292.4	58.90	5.965		
9,792.7	8,036.0	8,168.3	8,016.1	39.7	25.3	88.59	1,371.0	567.1	338.9	275.8	63.08	5.373		
9,800.0	8,036.0	8,168.3	8,016.2	39.8	25.3	88.59	1,371.0	567.1	339.0	275.7	63.32	5.353 ES, SF		
9,900.0	8,036.0	8,168.6	8,016.4	40.9	25.3	88.64	1,371.0	567.1	355.5	290.5	65.01	5.468		
10,000.0	8,036.0	8,168.9	8,016.7	42.0	25.3	88.69	1,371.0	567.1	397.3	333.2	64.12	6.196		

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 4E-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 4E-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 #5	<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	
10,100.0	8,036.0	8,169.2	8,017.0	43.2	25.3	88.73	1,371.0	567.1	457.5	395.5	62.04	7.374	
10,200.0	8,036.0	8,169.5	8,017.3	44.4	25.3	88.78	1,371.0	567.2	529.9	470.1	59.81	8.860	
10,300.0	8,036.0	8,169.8	8,017.6	45.6	25.3	88.83	1,371.0	567.2	610.1	552.3	57.84	10.547	
10,400.0	8,036.0	8,170.0	8,017.9	46.8	25.3	88.88	1,371.0	567.2	695.5	639.2	56.23	12.369	
10,500.0	8,036.0	8,170.3	8,018.2	48.1	25.3	88.93	1,371.0	567.2	784.3	729.4	54.92	14.281	
10,600.0	8,036.0	8,170.6	8,018.4	49.4	25.3	88.97	1,371.0	567.2	875.6	821.7	53.87	16.253	
10,700.0	8,036.0	8,170.9	8,018.7	50.7	25.3	89.02	1,371.0	567.2	968.5	915.5	53.02	18.268	
10,800.0	8,036.0	8,171.2	8,019.0	52.0	25.3	89.07	1,371.0	567.2	1,062.8	1,010.5	52.32	20.312	
10,900.0	8,036.0	8,171.5	8,019.3	53.3	25.3	89.12	1,371.0	567.2	1,158.0	1,106.3	51.75	22.377	
11,000.0	8,036.0	8,171.7	8,019.6	54.7	25.3	89.17	1,371.0	567.2	1,254.0	1,202.7	51.27	24.458	
11,100.0	8,036.0	8,172.0	8,019.8	56.0	25.3	89.21	1,371.0	567.2	1,350.5	1,299.7	50.87	26.549	
11,200.0	8,036.0	8,172.3	8,020.1	57.4	25.3	89.26	1,371.0	567.2	1,447.5	1,397.0	50.53	28.647	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (AL) - SYNERGY - NEVER DRILLED														Offset Site Error:	0.0 ft
Survey Program: O-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	25.69	256.1	123.2	285.2						
100.0	100.0	76.5	76.5	0.1	0.1	25.69	256.1	123.2	284.2	284.0	0.26	1,086.040			
200.0	200.0	176.5	176.5	0.5	0.3	25.69	256.1	123.2	284.2	283.4	0.79	357.676 CC, ES			
300.0	300.0	276.5	276.5	0.8	0.5	-132.90	256.1	123.2	285.4	284.1	1.31	217.133			
400.0	399.8	376.3	376.3	1.2	0.7	-133.61	256.1	123.2	289.0	287.2	1.84	157.298			
500.0	499.5	476.0	476.0	1.5	0.8	-134.75	256.1	123.2	295.1	292.7	2.37	124.387			
600.0	598.7	575.2	575.2	1.9	1.0	-136.25	256.1	123.2	303.8	300.9	2.92	104.142			
700.0	697.5	674.0	674.0	2.3	1.2	-138.05	256.1	123.2	315.4	311.9	3.47	90.839			
800.0	795.6	772.1	772.1	2.8	1.3	-140.07	256.1	123.2	329.9	325.8	4.04	81.686			
900.0	893.5	870.0	870.0	3.2	1.5	-142.25	256.1	123.2	346.2	341.6	4.60	75.296			
1,000.0	991.3	967.8	967.8	3.7	1.7	-144.24	256.1	123.2	362.9	357.7	5.16	70.374			
1,100.0	1,089.1	1,069.3	1,069.3	4.1	1.9	-146.00	255.6	123.9	379.7	374.0	5.73	66.318			
1,200.0	1,186.9	1,173.5	1,173.4	4.6	2.1	-147.18	253.1	127.5	395.4	389.1	6.31	62.669			
1,300.0	1,284.8	1,278.6	1,278.2	5.0	2.3	-147.79	248.3	134.3	409.7	402.8	6.91	59.277			
1,400.0	1,382.6	1,384.4	1,383.2	5.5	2.5	-147.87	241.2	144.2	422.5	414.9	7.54	56.020			
1,500.0	1,480.4	1,490.4	1,488.0	6.0	2.7	-147.48	231.9	157.4	433.7	425.4	8.21	52.828			
1,600.0	1,578.3	1,594.0	1,589.8	6.4	3.0	-146.71	220.8	173.1	443.5	434.5	8.91	49.785			
1,700.0	1,676.1	1,693.4	1,687.3	6.9	3.3	-145.90	209.7	188.8	453.0	443.4	9.61	47.121			
1,800.0	1,773.9	1,792.7	1,784.8	7.4	3.7	-145.14	198.6	204.4	462.7	452.4	10.34	44.756			
1,900.0	1,871.7	1,892.1	1,882.2	7.9	4.0	-144.40	187.4	220.1	472.5	461.4	11.08	42.652			
2,000.0	1,969.6	1,991.4	1,979.7	8.3	4.3	-143.70	176.3	235.7	482.3	470.5	11.83	40.777			
2,100.0	2,067.4	2,090.7	2,077.2	8.8	4.7	-143.02	165.2	251.4	492.2	479.6	12.59	39.099			
2,200.0	2,165.2	2,190.1	2,174.7	9.3	5.0	-142.37	154.1	267.0	502.1	488.8	13.36	37.593			
2,300.0	2,263.1	2,289.4	2,272.1	9.8	5.4	-141.74	143.0	282.7	512.2	498.0	14.13	36.237			
2,400.0	2,360.9	2,388.8	2,369.6	10.2	5.7	-141.14	131.9	298.4	522.2	507.3	14.92	35.011			
2,500.0	2,458.7	2,488.1	2,467.1	10.7	6.1	-140.56	120.8	314.0	532.4	516.7	15.70	33.899			
2,600.0	2,556.6	2,587.5	2,564.5	11.2	6.5	-140.00	109.7	329.7	542.5	526.1	16.50	32.886			
2,700.0	2,654.4	2,686.8	2,662.0	11.7	6.8	-139.47	98.6	345.3	552.8	535.5	17.30	31.962			
2,800.0	2,752.2	2,786.1	2,759.5	12.1	7.2	-138.95	87.5	361.0	563.1	545.0	18.10	31.114			
2,900.0	2,850.0	2,885.5	2,856.9	12.6	7.6	-138.45	76.4	376.7	573.4	554.5	18.90	30.336			
3,000.0	2,947.9	2,984.8	2,954.4	13.1	7.9	-137.97	65.3	392.3	583.8	564.0	19.71	29.619			
3,100.0	3,045.7	3,084.2	3,051.9	13.6	8.3	-137.50	54.2	408.0	594.2	573.6	20.52	28.956			
3,200.0	3,143.5	3,183.5	3,149.4	14.0	8.7	-137.06	43.1	423.6	604.6	583.3	21.33	28.342			
3,300.0	3,241.4	3,282.9	3,246.8	14.5	9.0	-136.62	32.0	439.3	615.1	592.9	22.15	27.772			
3,400.0	3,339.2	3,382.2	3,344.3	15.0	9.4	-136.20	20.9	454.9	625.6	602.6	22.96	27.241			
3,500.0	3,437.1	3,481.6	3,441.8	15.5	9.8	-135.83	9.7	470.6	636.0	612.2	23.78	26.742			
3,600.0	3,535.4	3,581.0	3,539.3	15.9	10.2	-135.39	-1.4	486.3	644.6	620.0	24.60	26.203			
3,700.0	3,634.4	3,680.4	3,636.9	16.3	10.5	-134.70	-12.5	501.9	650.8	625.3	25.41	25.609			
3,800.0	3,733.7	3,779.7	3,734.3	16.7	10.9	-133.79	-23.6	517.6	654.6	628.4	26.22	24.969			
3,900.0	3,833.5	3,878.8	3,831.5	17.1	11.3	-132.64	-34.7	533.2	656.3	629.3	27.02	24.293			
4,000.0	3,933.4	3,977.4	3,928.3	17.4	11.7	-131.24	-45.7	548.8	656.0	628.2	27.81	23.592			
4,100.0	4,033.4	4,075.7	4,024.7	17.7	12.0	28.73	-56.7	564.3	654.0	625.4	28.57	22.894			
4,200.0	4,133.4	4,173.8	4,121.0	17.9	12.4	30.38	-67.6	579.7	652.0	622.7	29.31	22.247			
4,300.0	4,233.4	4,271.9	4,217.2	18.2	12.8	32.05	-78.6	595.2	650.6	620.5	30.04	21.654			
4,400.0	4,333.4	4,370.0	4,313.5	18.5	13.2	33.72	-89.6	610.6	649.7	618.9	30.77	21.113			
4,497.5	4,430.9	4,465.7	4,407.4	18.7	13.5	35.35	-100.3	625.7	649.4	618.0	31.48	20.632			
4,500.0	4,433.4	4,468.1	4,409.8	18.7	13.5	35.39	-100.6	626.1	649.4	617.9	31.50	20.620			
4,600.0	4,533.4	4,566.7	4,506.6	19.0	13.9	37.01	-111.2	641.1	649.7	617.5	32.18	20.190			
4,700.0	4,633.4	4,666.4	4,605.1	19.3	14.2	38.37	-120.1	653.7	650.4	617.6	32.80	19.826			
4,800.0	4,733.4	4,767.1	4,705.1	19.6	14.4	39.44	-127.2	663.6	651.1	617.7	33.37	19.512			
4,900.0	4,833.4	4,868.6	4,806.1	19.8	14.6	40.20	-132.2	670.7	651.8	617.9	33.88	19.238			
5,000.0	4,933.4	4,970.5	4,907.9	20.1	14.8	40.64	-135.1	674.8	652.2	617.9	34.33	18.996			

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 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S29-T1N-R68W (Pratt/Waste Connections) - SRC PRATT 44-29D (AL) - SYNERGY - NEVER DRILLED													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
5,100.0	5,033.4	5,072.4	5,009.9	20.4	14.9	40.77	-136.0	676.0	652.4	617.6	34.75	18.774		
5,200.0	5,133.4	5,172.4	5,109.9	20.7	15.0	40.77	-136.0	676.0	652.4	617.2	35.15	18.560		
5,300.0	5,233.4	5,272.4	5,209.9	21.0	15.1	40.77	-136.0	676.0	652.4	616.8	35.55	18.349		
5,400.0	5,333.4	5,372.4	5,309.9	21.3	15.2	40.77	-136.0	676.0	652.4	616.4	35.96	18.141		
5,500.0	5,433.4	5,472.4	5,409.9	21.6	15.3	40.77	-136.0	676.0	652.4	616.0	36.37	17.936		
5,600.0	5,533.4	5,572.4	5,509.9	21.9	15.4	40.77	-136.0	676.0	652.4	615.6	36.78	17.735		
5,700.0	5,633.4	5,672.4	5,609.9	22.2	15.5	40.77	-136.0	676.0	652.4	615.2	37.20	17.536		
5,800.0	5,733.4	5,772.4	5,709.9	22.5	15.6	40.77	-136.0	676.0	652.4	614.7	37.62	17.341		
5,900.0	5,833.4	5,872.4	5,809.9	22.8	15.8	40.77	-136.0	676.0	652.4	614.3	38.04	17.149		
6,000.0	5,933.4	5,972.4	5,909.9	23.1	15.9	40.77	-136.0	676.0	652.4	613.9	38.47	16.960		
6,100.0	6,033.4	6,072.4	6,009.9	23.4	16.0	40.77	-136.0	676.0	652.4	613.5	38.89	16.773		
6,200.0	6,133.4	6,172.4	6,109.9	23.7	16.1	40.77	-136.0	676.0	652.4	613.0	39.32	16.590		
6,300.0	6,233.4	6,272.4	6,209.9	24.0	16.2	40.77	-136.0	676.0	652.4	612.6	39.75	16.410		
6,400.0	6,333.4	6,372.4	6,309.9	24.3	16.3	40.77	-136.0	676.0	652.4	612.2	40.19	16.233		
6,500.0	6,433.4	6,472.4	6,409.9	24.6	16.5	40.77	-136.0	676.0	652.4	611.7	40.62	16.059		
6,600.0	6,533.4	6,572.4	6,509.9	24.9	16.6	40.77	-136.0	676.0	652.4	611.3	41.06	15.888		
6,700.0	6,633.4	6,672.4	6,609.9	25.2	16.7	40.77	-136.0	676.0	652.4	610.9	41.50	15.719		
6,800.0	6,733.4	6,772.4	6,709.9	25.5	16.8	40.77	-136.0	676.0	652.4	610.4	41.94	15.553		
6,900.0	6,833.4	6,872.4	6,809.9	25.9	16.9	40.77	-136.0	676.0	652.4	610.0	42.39	15.390		
7,000.0	6,933.4	6,972.4	6,909.9	26.2	17.1	40.77	-136.0	676.0	652.4	609.5	42.83	15.230		
7,100.0	7,033.4	7,072.4	7,009.9	26.5	17.2	40.77	-136.0	676.0	652.4	609.1	43.28	15.072		
7,200.0	7,133.4	7,172.4	7,109.9	26.8	17.3	40.77	-136.0	676.0	652.4	608.6	43.73	14.917		
7,300.0	7,233.4	7,272.4	7,209.9	27.1	17.4	40.77	-136.0	676.0	652.4	608.2	44.18	14.765		
7,400.0	7,333.4	7,372.4	7,309.9	27.5	17.6	41.41	-136.0	676.0	652.3	607.6	44.64	14.613		
7,500.0	7,432.9	7,472.0	7,409.4	27.7	17.7	42.28	-136.0	676.0	645.7	600.6	45.07	14.325		
7,600.0	7,530.2	7,569.3	7,506.7	28.0	17.8	44.59	-136.0	676.0	629.0	583.5	45.47	13.832		
7,700.0	7,623.4	7,662.5	7,599.9	28.2	17.9	48.47	-136.0	676.0	603.3	557.5	45.82	13.167		
7,800.0	7,710.8	7,712.6	7,650.0	28.4	18.0	52.33	-136.0	676.0	571.7	525.7	45.93	12.447		
7,900.0	7,790.5	7,712.6	7,650.0	28.6	18.0	54.05	-136.0	676.0	545.7	500.6	45.10	12.098 SF		
8,000.0	7,861.0	7,712.6	7,650.0	28.7	18.0	55.15	-136.0	676.0	529.1	485.7	43.40	12.191		
8,100.0	7,921.0	7,712.6	7,650.0	28.9	18.0	55.54	-136.0	676.0	523.2	482.0	41.14	12.717		
8,103.1	7,922.7	7,712.6	7,650.0	28.9	18.0	55.54	-136.0	676.0	523.2	482.1	41.07	12.739		
8,200.0	7,969.3	7,712.6	7,650.0	29.1	18.0	55.19	-136.0	676.0	528.4	489.5	38.88	13.589		
8,300.0	8,005.0	7,712.6	7,650.0	29.3	18.0	54.14	-136.0	676.0	544.4	507.1	37.24	14.619		
8,400.0	8,027.3	7,712.6	7,650.0	29.5	18.0	52.45	-136.0	676.0	569.8	533.3	36.57	15.581		
8,500.0	8,035.9	7,712.6	7,650.0	29.8	18.0	50.24	-136.0	676.0	603.2	566.3	36.89	16.350		
8,600.0	8,036.0	7,712.6	7,650.0	30.2	18.0	49.96	-136.0	676.0	645.7	607.9	37.79	17.086		
8,700.0	8,036.0	7,712.6	7,650.0	30.7	18.0	49.96	-136.0	676.0	700.0	661.2	38.81	18.036		
8,800.0	8,036.0	7,712.6	7,650.0	31.2	18.0	49.96	-136.0	676.0	763.6	723.8	39.79	19.191		
8,900.0	8,036.0	7,712.6	7,650.0	31.8	18.0	49.96	-136.0	676.0	834.4	793.7	40.65	20.524		
9,000.0	8,036.0	7,712.6	7,650.0	32.5	18.0	49.96	-136.0	676.0	910.6	869.2	41.39	22.003		
9,100.0	8,036.0	7,712.6	7,650.0	33.2	18.0	49.96	-136.0	676.0	991.1	949.1	42.00	23.599		
9,200.0	8,036.0	7,712.6	7,650.0	34.0	18.0	49.96	-136.0	676.0	1,074.9	1,032.4	42.50	25.289		
9,300.0	8,036.0	7,712.6	7,650.0	34.8	18.0	49.96	-136.0	676.0	1,161.2	1,118.3	42.93	27.052		
9,400.0	8,036.0	7,712.6	7,650.0	35.7	18.0	49.96	-136.0	676.0	1,249.6	1,206.3	43.28	28.874		
9,500.0	8,036.0	7,712.6	7,650.0	36.7	18.0	49.96	-136.0	676.0	1,339.6	1,296.1	43.58	30.743		
9,600.0	8,036.0	7,712.6	7,650.0	37.7	18.0	49.96	-136.0	676.0	1,431.0	1,387.1	43.83	32.650		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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		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)						
15,600.0	8,036.0	8,017.5	8,017.5	124.9	14.0	90.00	8,628.6	-21.3	1,471.1	1,426.0	45.11	32.612		
15,700.0	8,036.0	8,017.5	8,017.5	126.4	14.0	90.00	8,628.6	-21.3	1,371.1	1,325.9	45.20	30.336		
15,800.0	8,036.0	8,017.5	8,017.5	128.0	14.0	90.00	8,628.6	-21.3	1,271.1	1,225.9	45.29	28.066		
15,900.0	8,036.0	8,017.5	8,017.5	129.5	14.0	90.00	8,628.6	-21.3	1,171.2	1,125.8	45.39	25.802		
16,000.0	8,036.0	8,017.5	8,017.5	131.0	14.0	90.00	8,628.6	-21.3	1,071.2	1,025.7	45.49	23.545		
16,100.0	8,036.0	8,017.5	8,017.5	132.5	14.0	90.00	8,628.6	-21.3	971.2	925.6	45.61	21.294		
16,200.0	8,036.0	8,017.5	8,017.5	134.1	14.0	90.00	8,628.6	-21.3	871.2	825.4	45.73	19.050		
16,300.0	8,036.0	8,017.5	8,017.5	135.6	14.0	90.00	8,628.6	-21.3	771.2	725.3	45.87	16.811		
16,400.0	8,036.0	8,017.5	8,017.5	137.1	14.0	90.00	8,628.6	-21.3	671.2	625.2	46.04	14.579		
16,500.0	8,036.0	8,017.5	8,017.5	138.6	14.0	90.00	8,628.6	-21.3	571.2	525.0	46.24	12.352		
16,600.0	8,036.0	8,017.5	8,017.5	140.2	14.0	90.00	8,628.6	-21.3	471.3	424.7	46.52	10.131		
16,700.0	8,036.0	8,017.5	8,017.5	141.7	14.0	90.00	8,628.6	-21.3	371.3	324.4	46.92	7.913		
16,800.0	8,036.0	8,017.5	8,017.5	143.2	14.0	90.00	8,628.6	-21.3	271.4	223.7	47.65	5.696		
16,900.0	8,036.0	8,017.5	8,017.5	144.7	14.0	90.00	8,628.6	-21.3	171.6	122.2	49.41	3.473		
17,000.0	8,036.0	8,017.5	8,017.5	146.3	14.0	90.00	8,628.6	-21.3	72.3	13.8	58.43	1.237 Level 2		
17,071.1	8,036.0	8,017.5	8,017.5	147.4	14.0	90.00	8,628.6	-21.3	13.0	-148.3	161.24	0.080 Level 1, CC, ES, SF		
17,100.0	8,036.0	8,017.5	8,017.5	147.8	14.0	90.00	8,628.6	-21.3	31.7	-44.4	76.09	0.417 Level 1		
17,200.0	8,036.0	8,017.5	8,017.5	149.3	14.0	90.00	8,628.6	-21.3	129.6	82.9	46.66	2.777		
17,300.0	8,036.0	8,017.5	8,017.5	150.9	14.0	90.00	8,628.6	-21.3	229.3	183.6	45.66	5.021		
17,400.0	8,036.0	8,017.5	8,017.5	152.4	14.0	90.00	8,628.6	-21.3	329.2	283.5	45.65	7.210		
17,500.0	8,036.0	8,017.5	8,017.5	154.0	14.0	90.00	8,628.6	-21.3	429.1	383.3	45.77	9.376		
17,600.0	8,036.0	8,017.5	8,017.5	155.5	14.0	90.00	8,628.6	-21.3	529.1	483.2	45.90	11.527		
17,700.0	8,036.0	8,017.5	8,017.5	157.0	14.0	90.00	8,628.6	-21.3	629.1	583.0	46.03	13.667		
17,800.0	8,036.0	8,017.5	8,017.5	158.6	14.0	90.00	8,628.6	-21.3	729.0	682.9	46.15	15.798		
17,900.0	8,036.0	8,017.5	8,017.5	159.8	14.0	90.00	8,628.6	-21.3	829.1	781.4	47.68	17.386		
17,909.9	8,036.0	8,017.5	8,017.5	159.9	14.0	90.00	8,628.6	-21.3	838.9	791.1	47.84	17.538		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor	
15,900.0	8,036.0	9,105.0	7,710.4	129.5	35.4	-53.53	8,840.8	-431.1	1,463.4	1,386.5	76.95	19.017	
16,000.0	8,036.0	9,080.4	7,710.1	131.0	34.8	-51.81	8,847.2	-407.3	1,369.6	1,292.6	76.98	17.792	
16,100.0	8,036.0	9,056.5	7,709.6	132.5	34.3	-50.01	8,853.5	-384.3	1,276.1	1,199.0	77.13	16.545	
16,200.0	8,036.0	9,033.5	7,709.2	134.1	33.8	-48.14	8,859.6	-362.2	1,183.2	1,105.7	77.45	15.278	
16,300.0	8,036.0	9,009.9	7,708.7	135.6	33.3	-46.08	8,866.0	-339.4	1,090.9	1,013.1	77.80	14.022	
16,400.0	8,036.0	8,985.5	7,708.1	137.1	32.7	-43.78	8,872.7	-316.0	999.4	921.2	78.20	12.779	
16,500.0	8,036.0	8,955.5	7,707.5	138.6	32.1	-40.70	8,881.0	-287.1	908.8	830.7	78.09	11.638	
16,600.0	8,036.0	8,919.8	7,706.6	140.2	31.3	-36.65	8,890.7	-252.8	819.3	741.9	77.36	10.590	
16,700.0	8,036.0	8,886.0	7,705.9	141.7	30.6	-32.38	8,899.6	-220.2	731.0	654.1	76.91	9.505	
16,800.0	8,036.0	8,855.5	7,705.2	143.2	29.9	-28.17	8,907.4	-190.7	644.9	567.8	77.06	8.369	
16,900.0	8,036.0	8,826.4	7,704.6	144.7	29.3	-23.83	8,914.8	-162.6	561.9	484.2	77.70	7.232	
17,000.0	8,036.0	8,797.8	7,704.1	146.3	28.7	-19.28	8,922.0	-134.9	483.7	404.9	78.85	6.134	
17,100.0	8,036.0	8,769.4	7,703.7	147.8	28.1	-14.52	8,929.1	-107.4	413.2	332.7	80.56	5.129	
17,200.0	8,036.0	8,741.2	7,703.3	149.3	27.5	-9.59	8,936.0	-80.1	355.0	272.4	82.61	4.297	
17,300.0	8,036.0	8,714.0	7,703.0	150.9	26.9	-4.69	8,942.5	-53.7	316.0	231.6	84.38	3.744	
17,390.4	8,036.0	8,690.1	7,702.8	152.3	26.4	-0.34	8,948.1	-30.5	303.7	217.9	85.74	3.542 CC	
17,400.0	8,036.0	8,687.6	7,702.8	152.4	26.4	0.11	8,948.7	-28.1	303.8	217.9	85.92	3.536 ES, SF	
17,500.0	8,036.0	8,661.4	7,702.8	154.0	25.9	4.90	8,954.8	-2.5	321.6	234.0	87.58	3.672	
17,600.0	8,036.0	8,636.3	7,702.8	155.5	25.3	9.42	8,960.4	21.9	365.1	278.0	87.13	4.191	
17,700.0	8,036.0	8,612.4	7,703.1	157.0	24.9	13.64	8,965.7	45.3	426.6	341.7	84.94	5.023	
17,800.0	8,036.0	8,589.5	7,703.4	158.6	24.4	17.55	8,970.6	67.6	499.6	417.4	82.28	6.073	
17,900.0	8,036.0	8,567.4	7,703.9	159.8	24.0	21.20	8,975.2	89.2	579.9	500.0	79.87	7.261	
17,909.9	8,036.0	8,565.3	7,703.9	159.9	23.9	21.55	8,975.6	91.3	588.1	508.4	79.66	7.383	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S29-T1N-R68W (Pratt/Waste Connections) - WILLIAM PELTIER 4-2-20 (AL) - ENCANA - NEVER DRIL										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)							
16,900.0	8,036.0	8,328.0	7,923.5	144.7	42.6	-90.00	8,655.2	-1,514.8	1,490.7	1,325.9	164.78	9.046					
17,000.0	8,036.0	8,328.0	7,923.5	146.3	42.6	-90.00	8,655.2	-1,514.8	1,482.5	1,316.8	165.65	8.949					
17,071.6	8,036.0	8,328.0	7,923.5	147.4	42.6	-90.00	8,655.2	-1,514.8	1,480.7	1,314.8	165.97	8.922 CC, ES					
17,100.0	8,036.0	8,328.0	7,923.5	147.8	42.6	-90.00	8,655.2	-1,514.8	1,481.0	1,315.0	166.02	8.920 SF					
17,200.0	8,036.0	8,328.0	7,923.5	149.3	42.6	-90.00	8,655.2	-1,514.8	1,486.3	1,320.4	165.95	8.956					
17,300.0	8,036.0	8,328.0	7,923.5	150.9	42.6	-90.00	8,655.2	-1,514.8	1,498.3	1,332.7	165.52	9.052					

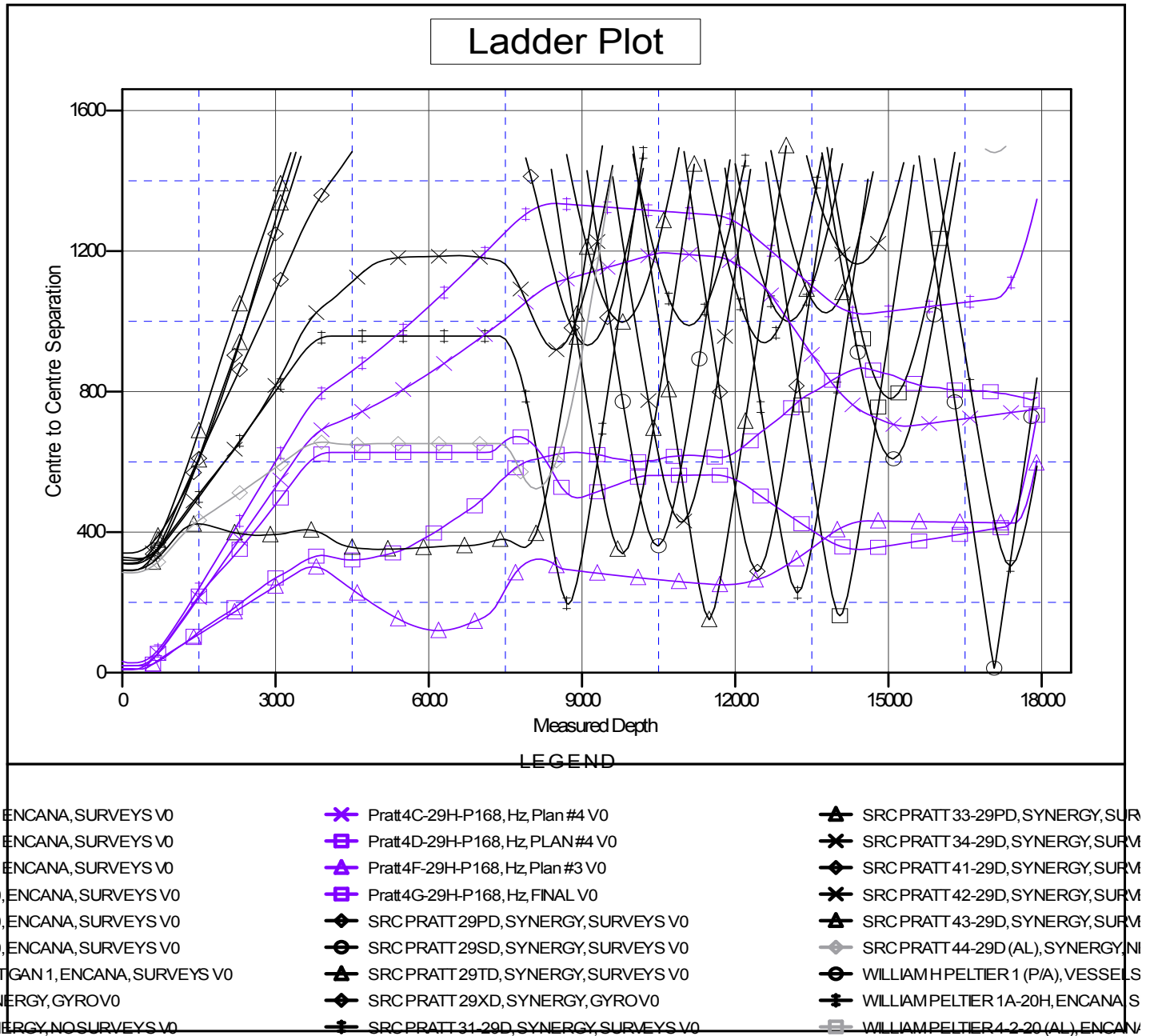


# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Pratt 4E-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 4E-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 #5	<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 4E-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